	7100 X 1 07 00 01	40.000110			<b>7.2</b> 0.0 00 00 1 <b>7</b>	2007 2112	000 (101
morning rise	7123 Jul 07 09:21	4°922'12		conjunction	7129 Sep 08 00:17	20° m/31'12	
retrograde	7123 Oct 20 14:50	12° <b>©</b> 02'38		minimum elong	7129 Sep 08 00:15	20° Mp 31'11	0°26'21
opposition	7123 Dec 29 12:42	8° <b>9</b> 37'53		max. Earth dist.	7129 Sep 07 22:37		10.23983 AU
min. Earth dist.	7123 Dec 29 09:56	8° <b>©</b> 38'25	8.60341 AU	morning rise	7129 Sep 26 00:33	22° Mp 47'41	
direct	7124 Mar 06 12:14	5° <b>©</b> 17'08			7129 Dec 09 14:09	0∘ <b>⊽</b>	
evening set	7124 Jun 14 21:16	12° <b>©</b> 40'59		retrograde	7130 Jan 09 00:47	0° <b>ჲ</b> 49'23	
					7130 Feb 08 14:11	30°₽.₩	
conjunction	7124 Jul 02 02:19	14° <b>©</b> 47'36	-1°38'46	opposition	7130 Mar 17 14:53	27° <b>m</b> 21'52	0°50'14
minimum elong	7124 Jul 02 02:21	14° <b>©</b> 47'37	1°38'52	min. Earth dist.	7130 Mar 17 16:07	27° <b>m</b> 21'37	8.22341 AU
max. Earth dist.	7124 Jul 02 05:22	14° <b>©</b> 48'33	10.56490 AU	direct	7130 May 23 19:42	23° m 55'01	
morning rise	7124 Jul 19 11:29	16° <b>©</b> 55'28			7130 Aug 20 02:57	0° <del>ٽ</del>	
retrograde	7124 Nov 01 23:49	24°5541'02		evening set	7130 Sep 04 11:26	1° <b>£</b> 52'04	
opposition	7125 Jan 10 13:24	21°515'29	-1°50'54	evening sec	7130 Sep 0. 11.20	1 —020.	
min. Earth dist.	7125 Jan 10 11:13		8.52710 AU	conjunction	7130 Sep 22 11:04	4° <b>ჲ</b> 08'43	0°53'48
direct	7125 Mar 19 05:58	17°953'51	8.32/10 AU	minimum elong	7130 Sep 22 11:04 7130 Sep 22 11:02	4° <u>₽</u> 08'43	0°53'50
	7125 Jun 27 22:03	25°\$22'53		max. Earth dist.	7130 Sep 22 11:02 7130 Sep 22 08:58	4° <u>₽</u> 08'03	10.21104 AU
evening set	/125 Jun 2/ 22:03	25 922 53			*		10.21104 AU
				morning rise	7130 Oct 10 11:19	6° <b>Ω</b> 25'37	
conjunction	7125 Jul 15 07:24	27° <b>©</b> 31'40		retrograde	7131 Jan 22 23:19	14° <b>£</b> 27'09	
minimum elong	7125 Jul 15 07:27	27° <b>©</b> 31'41		opposition	7131 Mar 31 07:24	10° <b>≏</b> 59'52	1°22'46
max. Earth dist.	7125 Jul 15 10:16		10.48797 AU	min. Earth dist.	7131 Mar 31 08:50	10° <b>≏</b> 59'34	8.20369 AU
morning rise	7125 Aug 01 20:38	29° <b>5</b> 541'41		direct	7131 Jun 06 16:43	7° <b>≏</b> 32'14	
	7125 Aug 04 09:04	$0^{\circ}\Omega$		evening set	7131 Sep 19 00:11	15° <b>≏</b> 33'01	
retrograde	7125 Nov 15 13:44	7° <b>Ω</b> 32'09					
opposition	7126 Jan 23 17:23	4° <b>Ω</b> 05'52	-1°25'06	conjunction	7131 Oct 06 23:42	17° <b>≏</b> 49'49	1°18'20
min. Earth dist.	7126 Jan 23 15:17	4° <b>Ω</b> 06'17	8.45005 AU	minimum elong	7131 Oct 06 23:40	17° <b>≏</b> 49'49	1°18'23
direct	7126 Apr 01 03:18	0° <b>Ω</b> 43'16		max. Earth dist.	7131 Oct 06 21:19	17° <b>Ω</b> 49'04	10.19995 AU
evening set	7126 Jul 11 06:19	8° <b>Ω</b> 18'01		morning rise	7131 Oct 24 22:39	20° <b>ჲ</b> 06'30	
evening sec	/120 Jul 11 00.19	0 001001		retrograde	7132 Feb 05 22:01	28° <b>ഫ</b> 06'32	
conjunction	7126 Jul 28 19:54	10° <b>Ω</b> 28'59	0°57'00	opposition	7132 Apr 13 00:32	24° <b>Ω</b> 39'41	1°50'41
					•		
minimum elong	7126 Jul 28 19:56	10° <b>£</b> 28′59		min. Earth dist.	7132 Apr 13 02:08	24° <b>£</b> 39'22	8.20212 AU
max. Earth dist.	7126 Jul 28 21:59		10.41266 AU	direct	7132 Jun 19 14:59	21° <b>Ω</b> 11'29	
morning rise	7126 Aug 15 13:03	12° <b>Ω</b> 41'06		evening set	7132 Oct 02 13:47	29° <b>≙</b> 14'38	
	7126 Sep 04 02:47	15° <b>Ω</b>			7132 Oct 08 14:05	0°M₊	
retrograde	7126 Nov 29 06:41	20° <b>Ω</b> 35'51					
opposition	7127 Feb 06 00:33	17° <b>Ω</b> 08'59	-0°54'29	conjunction	7132 Oct 20 12:07	1°M31'02	1°38'27
min. Earth dist.	7127 Feb 05 23:02	17° <b>Ω</b> 09'17	8.37707 AU	minimum elong	7132 Oct 20 12:04	1°M31'01	1°38'30
	7127 Mar 07 05:48	15°R <b>Ω</b>		max. Earth dist.	7132 Oct 20 09:24	1°M30'10	10.20718 AU
direct	7127 Apr 14 06:13	13° <b>Ω</b> 45'17		morning rise	7132 Nov 07 08:50	3°M46'59	
	7127 May 21 16:37	15° <b>Ω</b>		retrograde	7133 Feb 18 18:54	11° <b>M</b> 44'12	
evening set	7127 Jul 24 22:05	21° <b>Ω</b> 26′00		opposition	7133 Apr 26 17:41	8° <b>M</b> 17'59	2°12'18
011111111111111111111111111111111111111				min. Earth dist.	7133 Apr 26 19:49	8°M17'33	8.21875 AU
conjunction	7127 Aug 11 15:27	23° <b>Ω</b> 39'00	-0°30'41	direct	7133 Jul 03 14:54	4°M49'26	0.21073710
minimum elong	7127 Aug 11 15:27 7127 Aug 11 15:28	23° <b>Ω</b> 39'00		evening set	7133 Jul 03 14:54 7133 Oct 17 01:55	12°M53'20	
_	_		10.34361 AU	evening set			
max. Earth dist.	7127 Aug 11 16:09		10.34301 AU		7133 Nov 02 18:30	15° <b>™</b>	
morning rise	7127 Aug 29 12:00	25° <b>Ω</b> 52'59					
	7127 Oct 04 16:12	0°Щ		conjunction	7133 Nov 03 22:16	15°M08'51	1°52'58
retrograde	7127 Dec 13 03:14	3° <b>m</b> ,51′10		minimum elong	7133 Nov 03 22:14	15°M08'50	1°53'02
opposition	7128 Feb 19 10:52	0° Mp 23′53		max. Earth dist.	7133 Nov 03 18:47		10.23226 AU
min. Earth dist.	7128 Feb 19 10:24	0°Mp23'59	8.31256 AU	morning rise	7133 Nov 21 16:13	17° <b>M</b> 23'40	
	7128 Feb 24 09:51	$30^\circ$ R $\Omega$		retrograde	7134 Mar 04 11:56	25° <b>™</b> 16′52	
direct	7128 Apr 26 13:29	26° <b>Ω</b> 59'03		opposition	7134 May 10 09:54	21°M51'28	2°26'23
	7128 Jun 25 03:53	0° <b>m</b>		min. Earth dist.	7134 May 10 12:51	21°M50'52	8.25245 AU
evening set	7128 Aug 06 20:50	4° Mp 45'43		direct	7134 Jul 17 15:57	18°M22'51	
Č	C	•		evening set	7134 Oct 31 10:46	26°M25'51	
conjunction	7128 Aug 24 17:13	7° m 00'24	-0°02'26	8			
minimum elong	7128 Aug 24 17:14	7° Mp 00'24		conjunction	7134 Nov 18 04:34	28°M40'06	2°01'08
behind sun begin	7128 Aug 24 09:56	6° Mp 58'07	0 02 20	minimum elong	7134 Nov 18 04:33	28°M40'06	2°01'12
	-			_			
behind sun end	7128 Aug 25 00:31	7° Mp 02'41	10.20405 433	max. Earth dist.	7134 Nov 18 00:12		10.27363 AU
max. Earth dist.	7128 Aug 24 16:26		10.28485 AU		7134 Nov 28 16:46	0° <b>⊼</b> ¹	
morning rise	7128 Sep 11 16:13	9° m 15'53		morning rise	7134 Dec 05 19:24	0° <b>≯</b> 753′28	
asc. node	7128 Sep 25 00:48	10° Mp 53′06		retrograde	7135 Mar 17 23:46	8° <b>∡</b> 41'43	
retrograde	7128 Dec 26 01:42	17° Mp 16'26		opposition	7135 May 24 00:21	5° <b>∡</b> 17'17	
opposition	7129 Mar 03 23:51	13°M/48'57	0°15'06	min. Earth dist.	7135 May 24 03:46	5° <b>⊀</b> 16'36	8.30121 AU
min. Earth dist.	7129 Mar 04 00:32	13° <b>m</b> 48'48	8.26034 AU	direct	7135 Jul 31 16:28	1° <b>х</b> 48′53	
direct	7129 May 10 01:58	10°M 23'03		evening set	7135 Nov 14 14:22	9° <b>∡</b> ¹49'21	
evening set	7129 Aug 21 01:44	18° <b>m</b> 15'15					
				conjunction	7135 Dec 02 05:25	12° <b>∡</b> °02'06	2°02'38

7142 Feb 16 09:24

conjunction

27°≈55'44 0°22'07

7148 Jan 22 21:05

0°8

evening set	7148 Apr 10 02:55	6° <b>8</b> 44'21		evening set	7154 Jun 22 06:16	19° <b>5</b> 46'00	
conjunction	7148 Apr 26 19:11	8° <b>8</b> 43'52	-1°47'36	conjunction	7154 Jul 09 13:35	21° <b>©</b> 54'03	-1°20'17
minimum elong	7148 Apr 26 19:09	8° <b>8</b> 43'52		minimum elong	7154 Jul 09 13:38	21°954'04	
max. Earth dist.	7148 Apr 26 21:57		10.86552 AU	max. Earth dist.	7154 Jul 09 15:38 7154 Jul 09 16:06		10.49910 AU
	•	10° <b>8</b> 43'52	10.80552 AU		7154 Jul 27 01:07		10.49910 AU
morning rise	7148 May 13 12:53			morning rise		24°903'23	
	7148 Jun 22 15:40	15° <b>8</b>			7154 Sep 22 20:31	0° <b>N</b>	
retrograde	7148 Aug 24 14:03	18° <b>8</b> 03'15		retrograde	7154 Nov 09 16:44	1° <b>£</b> 52'33	
	7148 Oct 30 02:29	15° <b>₹8</b>			7154 Dec 28 08:55	30° <b>₹</b> 55	
opposition	7148 Nov 03 01:49	14° <b>8</b> 42'06		opposition	7155 Jan 18 01:01	28° <b>©</b> 25'51	
min. Earth dist.	7148 Nov 02 23:03	_	8.85006 AU	min. Earth dist.	7155 Jan 17 22:58		8.46160 AU
direct	7149 Jan 11 13:50	11° <b>8</b> 23'00		direct	7155 Mar 26 13:20	25°503'00	
	7149 Mar 20 12:47	15° <b>8</b>			7155 Jun 13 07:20	$0^{\circ}\Omega$	
evening set	7149 Apr 22 01:15	18° <b>8</b> 33'30		evening set	7155 Jul 05 11:31	2° <b>Ω</b> 35'57	
conjunction	7149 May 08 18:00	20° <b>8</b> 33'34	-1°57'46	conjunction	7155 Jul 22 23:08	4° <b>Ω</b> 46'11	-1°08'05
minimum elong	7149 May 08 17:59	20° <b>8</b> 33'34	1°57'50	minimum elong	7155 Jul 22 23:11	4° <b>Ω</b> 46'11	1°08'09
max. Earth dist.	7149 May 08 20:32		10.82866 AU	max. Earth dist.	7155 Jul 23 01:09	4°Ω46'48	10.42422 AU
morning rise	7149 May 25 13:06	22° <b>8</b> 34'21		morning rise	7155 Aug 09 14:47	6° <b>£</b> 57'38	
retrograde	7149 Sep 06 02:50	29° <b>8</b> 57'55		retrograde	7155 Nov 23 07:26	14°Ω51'19	
opposition	7149 Nov 15 15:47	26° <b>8</b> 35'50	-2°28'32	opposition	7156 Jan 31 07:08	11° <b>Ω</b> 24'04	-1°09'05
min. Earth dist.	7149 Nov 15 13:17	26° <b>8</b> 36'19	8.80670 AU	min. Earth dist.	7156 Jan 31 05:36	11°Ω24'22	
direct	7150 Jan 23 20:11	23° <b>8</b> 16'28	8.80070 AU	direct		8°Ω00'13	6.36600 AU
uncci	7150 Jan 23 20:11 7150 Apr 30 00:59	0°II		uncci	7156 Apr 07 15:24 7156 Jul 12 16:21	8°8700 13 15°Ω	
	•	0° <b>П</b> 28'40					
evening set	7150 May 04 02:18	0 Д2840		evening set	7156 Jul 18 00:10	15° <b>Ω</b> 39'01	
conjunction	7150 May 20 20:29	2° <b>Ⅱ</b> 29'41	-2°02'57	conjunction	7156 Aug 04 15:56	17° <b>Ω</b> 51'22	-0°43'05
minimum elong	7150 May 20 20:28	2° <b>Ⅲ</b> 29'41	2°03'01	minimum elong	7156 Aug 04 15:58	17° <b>Ω</b> 51'22	0°43'08
max. Earth dist.	7150 May 20 23:03	2° <b>Ⅲ</b> 30′28	10.77904 AU	max. Earth dist.	7156 Aug 04 17:50	17° <b>Ω</b> 51'58	10.35464 AU
morning rise	7150 Jun 06 17:42	4° <b>Ⅲ</b> 31'35		morning rise	7156 Aug 22 11:09	20° <b>Ω</b> 04'47	
retrograde	7150 Sep 18 20:35	11° <b>Ⅱ</b> 59'57		retrograde	7156 Dec 06 03:07	28° <b>Ω</b> 02'19	
opposition	7150 Nov 28 07:36	8° <b>Ⅲ</b> 36'51	-2°31'47	opposition	7157 Feb 12 16:33	24° <b>Ω</b> 34'40	-0°36'22
min. Earth dist.	7150 Nov 28 05:04	8° <b>Ⅲ</b> 37′20	8.75145 AU	min. Earth dist.	7157 Feb 12 15:04	24° <b>Ω</b> 34'58	8.32296 AU
direct	7151 Feb 05 04:06	5° <b>Ⅱ</b> 17'04		direct	7157 Apr 20 20:47	21° <b>Ω</b> 09'54	
evening set	7151 May 16 07:02	12° <b>Ⅱ</b> 31'50		evening set	7157 Jul 31 20:02	28° <b>Ω</b> 54'36	
	,			5 , 5 g 5 5 5	7157 Aug 09 13:28	0° m/y	
conjunction	7151 Jun 02 03:36	14° <b>Ⅲ</b> 34′10	-2°02'46				
minimum elong	7151 Jun 02 03:37	14° <b>Ⅲ</b> 34'11	2°02'51	conjunction	7157 Aug 18 15:20	1° <b>m</b> 08'48	-0°15'29
max. Earth dist.	7151 Jun 02 07:12	14° <b>Ⅲ</b> 35'16	10.71864 AU	minimum elong	7157 Aug 18 15:21	1°Mp08'48	0°15'31
morning rise	7151 Jun 19 03:33	16° <b>Ⅱ</b> 37'34		behind sun begin	7157 Aug 18 13:52	1° Mp 08'20	
retrograde	7151 Oct 01 18:35	24° <b>Ⅱ</b> 11'05		behind sun end	7157 Aug 18 16:50	1°M)09'16	
opposition	7151 Dec 11 01:35	20° <b>Ⅱ</b> 46'58	-2°28'19	max. Earth dist.	7157 Aug 18 17:11	1° M 09'22	10.29422 AU
min. Earth dist.	7151 Dec 10 22:22		8.68640 AU	morning rise	7157 Sep 05 13:20	3°m/23'52	
direct	7152 Feb 17 13:33	17° <b>Ⅱ</b> 26'36		retrograde	7157 Dec 20 02:06	11° <b>m</b> )24'19	
evening set	7152 May 27 16:46	24° <b>∏</b> 44'51		opposition	7158 Feb 26 04:55	7° m 56'31	-0°01'12
	,			min. Earth dist.	7158 Feb 26 03:28	7° m 56'48	8.26845 AU
conjunction	7152 Jun 13 16:26	26° <b>Ⅱ</b> 48'51	-1°57'03	asc. node	7158 Mar 10 22:43	6° m 55'40	0.200 13 710
minimum elong	7152 Jun 13 16:28	26° <b>I</b> I48'52		direct	7158 May 04 07:01	4° mp 30'51	
max. Earth dist.	7152 Jun 13 10:28 7152 Jun 13 20:29		10.64979 AU	evening set	7158 Aug 14 22:54	12° Mp 21'18	
morning rise	7152 Jun 30 19:43	28° <b>I</b> 54'00	10.07/1/AU	evening set	,130 11ug 17 22.34	12 III 21 10	
morning 1150	7152 Jul 10 03:08	28 <b>പ</b> 3400 0°ഇ		conjunction	7158 Sep 01 20:48	14° <b>m</b> 36'56	0°13'21
retrograde	7152 Jul 10 03.08 7152 Oct 13 21:19	0 €32'50		minimum elong	7158 Sep 01 20:48	14 11/30 30 14° Mp 36'56	0°13'19
•			2010100	•	•		0 13 19
opposition	7152 Dec 22 22:09	3°907'46		behind sun begin	7158 Sep 01 16:44	14° Mp 35'40	
min. Earth dist.	7152 Dec 22 18:42		8.61419 AU	behind sun end	7158 Sep 02 00:52	14° Mp 38'13	10 24647 ATT
1.	7153 Feb 13 03:37	30°RII		max. Earth dist.	7158 Sep 01 21:55		10.24647 AU
direct	7153 Mar 01 02:01	29° <b>Ⅱ</b> 46'41		morning rise	7158 Sep 19 20:35	16° Mp 53'14	
	7153 Mar 16 21:11	0°95		retrograde	7159 Jan 03 02:23	24° m 55'22	002.427
evening set	7153 Jun 09 08:18	7° <b>©</b> 09'12		opposition	7159 Mar 11 19:39	21° m 27'41	0°34'27
	#150 T 00 1101	0001	104545	min. Earth dist.	7159 Mar 11 18:55	21° m/27'50	8.22829 AU
conjunction	7153 Jun 26 11:34	9°515'08		direct	7159 May 17 22:09	18° Mp 01'14	
minimum elong	7153 Jun 26 11:36	9° <b>©</b> 15'09		evening set	7159 Aug 29 07:29	25° Mp 56'54	
max. Earth dist.	7153 Jun 26 15:08		10.57549 AU				
morning rise	7153 Jul 13 18:48	11° <b>5</b> 22'18		conjunction	7159 Sep 16 06:49	28° <b>m</b> 13'28	0°41'36
retrograde	7153 Oct 27 05:23	19° <b>5</b> 06'26		minimum elong	7159 Sep 16 06:47	28° Mp 13'27	0°41'36
opposition	7154 Jan 04 21:58	15° <b>©</b> 40'29	-2°00'58	max. Earth dist.	7159 Sep 16 06:33		10.21426 AU
min. Earth dist.	7154 Jan 04 18:55	15° <b>©</b> 41'05	8.53806 AU		7159 Sep 30 06:14	0∘ <b>ত</b>	
direct	7154 Mar 13 16:57	12° <b>©</b> 18'34		morning rise	7159 Oct 04 07:11	0° <b>ჲ</b> 30'24	

retrograde	7160 Jan 17 02:56	8° <b>≏</b> 32'56		max. Earth dist.	7165 Dec 09 03:17	19° <b>7</b> /0'00	10.36973 AU
opposition	7160 Mar 24 12:24	5° <b>Ω</b> 05'36	1°08'27	morning rise	7165 Dec 26 17:41	21° <b>x</b> 52'12	10.50775 AC
min. Earth dist.	7160 Mar 24 12:24 7160 Mar 24 12:45	5° <b>£</b> 05'32	8.20493 AU	retrograde	7166 Apr 07 04:19	29° ×731'59	
direct	7160 May 30 17:25	1° <b>£</b> 38'29	0.20193110	opposition	7166 Jun 13 09:41	26°×7'09'36	2°24'51
evening set	7160 Sep 11 19:51	9° <b>₽</b> 38'22		min. Earth dist.	7166 Jun 13 13:37	26° <b>₹</b> 08'49	8.40353 AU
evening set	/100 Sep 11 19.51	) <b>—</b> 3022		direct	7166 Aug 21 14:37	22° × 42'31	0.40555710
conjunction	7160 Sep 29 19:26	11° <b>≏</b> 55'18	1°07'40	uncer	7166 Nov 30 11:11	0°る	
minimum elong	7160 Sep 29 19:23	11° <b>⊆</b> 55'17	1°07'41	evening set	7166 Dec 05 11:58	0° <b>る</b> 36'43	
max. Earth dist.	7160 Sep 29 17:58		10.19955 AU	evening sec	7100 <b>Dec</b> 03 11.30	0 000 15	
morning rise	7160 Oct 17 19:09	14° <b>£</b> 12'16	10.17733710	conjunction	7166 Dec 22 22:50	2° <b>る</b> 46'57	1°51'58
retrograde	7161 Jan 30 03:03	22° <b>£</b> 13'48		minimum elong	7166 Dec 22 22:50 7166 Dec 22 22:51	2°₹46'58	1°52'02
opposition	7161 Apr 07 06:14	18° <b>Ω</b> 47'02	1°38'42	max. Earth dist.	7166 Dec 22 17:43	2°る45'21	10.43642 AU
min. Earth dist.	7161 Apr 07 00:14 7161 Apr 07 07:29	18° <b>-</b> 47'02	8.19973 AU	morning rise	7167 Jan 09 05:54	4°る56'03	10.43042 AC
direct	7161 Jun 13 15:59	15° <b>⊆</b> 19'24	6.17773 AC	retrograde	7167 Apr 20 04:59	12°る30'07	
evening set	7161 Sep 26 10:08	23° <b>£</b> 22'11		opposition	7167 Apr 20 04.39 7167 Jun 26 17:56	9° <b>る</b> 08'37	2°10'42
evening set	/101 Sep 20 10.08	23 == 22 11		min. Earth dist.	7167 Jun 26 21:48	9° <b>る</b> 07'51	8.47272 AU
conjunction	7161 Oct 14 08:58	25° <b>£</b> 38'54	1°29'56	direct	7167 Sep 04 08:37	5°る42'13	6.47272 AU
•	7161 Oct 14 08:55	25° <b>£</b> 38'53	1°29'59		7167 Dec 18 22:26	13°る31'01	
minimum elong max. Earth dist.	7161 Oct 14 06:31		10.20315 AU	evening set	/10/ Dec 18 22.20	13 03101	
		23 <b>≗</b> 3807 27° <b>£</b> 55'20	10.20313 AU	agnismation	7168 Jan 05 06:39	15° <b>る</b> 39'35	1°37'58
morning rise	7161 Nov 01 06:58 7161 Nov 18 09:10	0°M		conjunction	7168 Jan 05 06:39	15° <b>る</b> 39'35	1°38'03
. 1		5°M54'25		minimum elong max. Earth dist.			1 38 03 10.50793 AU
retrograde	7162 Feb 13 00:33	2°M28'20	2002110		7168 Jan 05 01:51 7168 Jan 22 11:10	13° <b>る</b> 38'03	10.50/93 AU
opposition	7162 Apr 21 00:05		2°03'19	morning rise			
min. Earth dist.	7162 Apr 21 01:52	2°M27'58	8.21273 AU	retrograde	7168 May 02 02:08	25° <b>る</b> 15'31	1050116
r.	7162 May 24 23:50	30° <b>₹</b> Ω		opposition	7168 Jul 08 22:54	21° <b>る</b> 54'45	1°50'16
direct	7162 Jun 27 17:28	29° <b>⊆</b> 00'23		min. Earth dist.	7168 Jul 09 01:52	21°る54'11	8.54504 AU
	7162 Jul 31 06:13	0°M		direct	7168 Sep 16 21:42	18°る29'10	
evening set	7162 Oct 10 23:59	7° <b>M</b> .04'30		evening set	7168 Dec 31 01:18	26° <b>る</b> 11'56	
conjunction	7162 Oct 28 21:14	9° <b>M</b> 20'27	1°47'05	conjunction	7169 Jan 17 07:08	28° <b>ප</b> 18'51	1°19'24
minimum elong	7162 Oct 28 21:12	9° <b>™</b> 20'27	1°47'09	minimum elong	7169 Jan 17 07:10	28° <b>る</b> 18'52	1°19'27
max. Earth dist.	7162 Oct 28 18:15	9° <b>™</b> 19'30	10.22447 AU	max. Earth dist.	7169 Jan 17 03:34	28° <b>る</b> 17'45	10.58088 AU
morning rise	7162 Nov 15 16:38	11°M35'52			7169 Jan 30 23:58	0° <b>≈</b>	
	7162 Dec 14 13:16	15° <b>M</b> ₊		morning rise	7169 Feb 03 09:17	0° <b>≈</b> 24'40	
retrograde	7163 Feb 26 18:48	19°M31'13		retrograde	7169 May 14 19:23	7° <b>≈</b> 48'05	
opposition	7163 May 04 17:16	16°M05'57	2°20'52	opposition	7169 Jul 22 00:30	4° <b>≈</b> 27'54	1°24'54
min. Earth dist.	7163 May 04 19:09	16°M05'34	8.24244 AU	min. Earth dist.	7169 Jul 22 02:23	4° <b>≈</b> 27'33	8.61697 AU
	7163 May 18 13:05	15°RM		direct	7169 Sep 30 05:20	1° <b>≈</b> 03'11	
direct	7163 Jul 11 19:38	12°M37'53		evening set	7170 Jan 12 21:10	8° <b>≈</b> 39'44	
	7163 Sep 02 19:55	15° <b>™</b>		Ü			
evening set	7163 Oct 25 10:59	20°M41'37		conjunction	7170 Jan 30 00:39	10° <b>≈</b> 45'04	0°57'19
S				minimum elong	7170 Jan 30 00:41	10° <b>≈</b> 45'04	0°57'22
conjunction	7163 Nov 12 06:01	22°M56'25	1°58'08	max. Earth dist.	7170 Jan 29 22:34	10° <b>≈</b> 44'25	10.65166 AU
minimum elong	7163 Nov 12 05:59		1°58'12	morning rise	7170 Feb 16 00:36	12° <b>≈</b> 49'23	
max. Earth dist.	7163 Nov 12 02:46		10.26130 AU	Ü	7170 Mar 06 19:20	15° <b>≈</b>	
morning rise	7163 Nov 29 22:14	25°M10'26		retrograde	7170 May 27 08:27	20° <b>≈</b> 08'24	
Ü	7164 Jan 11 23:31	0° <b>√</b>		opposition	7170 Aug 03 22:49	16° <b>≈</b> 48'40	0°56'01
retrograde	7164 Mar 11 09:46	3° <b>₹</b> 01'08		min. Earth dist.	7170 Aug 04 00:07	16° <b>≈</b> 48'25	8.68520 AU
Č	7164 May 12 13:11	30°RM₊			7170 Aug 28 23:33	15°R <b>≈</b>	
opposition	7164 May 17 08:56	29°M36'45	2°30'25	direct	7170 Oct 13 08:23	13° <b>≈</b> 24'49	
min. Earth dist.	7164 May 17 11:19	29°M36'17			7170 Nov 26 16:49	15° <b>≈</b>	
direct	7164 Jul 24 20:09	26°M08'49		evening set	7171 Jan 25 10:34	20° <b>≈</b> 55'18	
	7164 Oct 02 04:34	0° <b>∡</b> 7			, , , , , , , , , , , , , , , , , , , ,		
evening set	7164 Nov 07 17:27	4° <b>҂</b> 10'37		conjunction	7171 Feb 11 11:40	22° <b>≈</b> 59'09	0°32'56
evening set	/1041107 0/ 1/.2/	4 × 1037		minimum elong	7171 Feb 11 11:41	22°≈59'09	0°32'59
conjunction	7164 Nov 25 09:54	6° <b>х</b> 24′03	2°02'35	max. Earth dist.	7171 Feb 11 10:22		10.71710 AU
minimum elong	7164 Nov 25 09:53	6°×21'03	2°02'40	morning rise	7171 Feb 28 09:45	25°≈02'08	10.71710710
max. Earth dist.	7164 Nov 25 06:04		10.31060 AU	morning rise	7171 Apr 16 23:27	0° <b>∺</b>	
morning rise	7164 Dec 12 22:52	8° 🖈 36'29	10.51000 AU	retrograde	7171 Apr 10 23.27 7171 Jun 08 18:59	2° <b>∺</b> 17'40	
retrograde	7165 Mar 24 22:08	16° <b>₹</b> 21'55		10110grade	7171 Juli 08 18:39 7171 Aug 02 22:53	2 )(1/40 30°R≈	
opposition	7165 May 30 22:31	10 <b>x</b> ·21 33 12° <b>x</b> 58'32	2°31'40	opposition	7171 Aug 02 22.33 7171 Aug 16 18:14	30 k≈ 28°≈58'12	0°25'02
min. Earth dist.	•	12° <b>×</b> '38'32 12° <b>×</b> '57'53	8.34049 AU	min. Earth dist.	•	28°≈58'12 28°≈58'00	8.74683 AU
min. Earth dist.	7165 May 31 01:42	9° <b>₹</b> 30'55	0.34047 AU	min. Earth dist.	7171 Aug 16 19:17 7171 Oct 26 06:09	28°≈38'00 25°≈35'14	0.74003 AU
	7165 Aug 07 17:46 7165 Nov 21 18:05	9° <b>×</b> ′3033		uncci		25°≈35°14 0° <b>∺</b>	
evening set	/103 NOV 21 18:03	1/ <b>x</b> ·29/31		evening set	7172 Jan 10 23:40 7172 Feb 06 18:10	0° <del>X</del> 3°¥00'06	
conjunction	7165 Dec 09 07:46	19° <b>⊀</b> 41'25	2°00'24	evening set	,1,2100 00 10.10	5 NOU 00	
minimum elong	7165 Dec 09 07:46 7165 Dec 09 07:47	19° <b>×</b> ′41′25 19° <b>×</b> ′41′25	2°00'24 2°00'29	conjunction	7172 Feb 23 16:57	5° <b>∺</b> 02'36	0°07'24
mmmum clong	/103 DCC 03 0/.4/	17 8:41 23	2 00 27	conjunction	1112100 23 10.3/	J NU230	0 0/24

	5150 F. L. 22 1 ( 50	501/00106	0005106		7170 X 02 02 11	1.501.4.2140	1052150
minimum elong	7172 Feb 23 16:58	5° <b>₩</b> 02'36	0°07'26	conjunction	7178 May 03 23:41	15° <b>8</b> 43'49	
behind sun begin	7172 Feb 23 10:32	5° <b>)</b> €00'40		minimum elong	7178 May 03 23:39	15° <b>8</b> 43'49	
behind sun end	7172 Feb 23 23:24	5° <b>₩</b> 04'32		max. Earth dist.	7178 May 04 04:12	_	10.84872 AU
max. Earth dist.	7172 Feb 23 15:57	5° <b>₩</b> 02'19	10.77445 AU	morning rise	7178 May 20 18:03	17° <b>8</b> 44'09	
morning rise	7172 Mar 11 13:33	7° <b>₩</b> 04'26		retrograde	7178 Sep 01 00:56	25° <b>8</b> 05'33	
desc. node	7172 Jun 10 08:13	14° <b>) (</b> 12′43		opposition	7178 Nov 10 14:55	21° <b>8</b> 43'55	-2°25'06
retrograde	7172 Jun 20 01:07	14° <b>)</b> 17′33		min. Earth dist.	7178 Nov 10 10:24	21° <b>8</b> 44'46	8.83310 AU
opposition	7172 Aug 28 10:52	10° <b>)</b> 58'11	-0°06'38	direct	7179 Jan 18 24:00	18° <b>8</b> 24'49	
min. Earth dist.	7172 Aug 28 11:12	10° <b>)</b> 58′07		evening set	7179 Apr 29 06:40	25° <b>8</b> 35'48	
direct	7172 Nov 06 23:41	7° <b>₩</b> 36'04	0.79922710	evening set	71771pi 25 00.10	23 033 10	
				:	7170 M 16 00-12	27° <b>8</b> 36'16	2001110
evening set	7173 Feb 17 21:15	14° <b>¥</b> 56′04		conjunction	7179 May 16 00:13	. •	
				minimum elong	7179 May 16 00:12	27° <b>8</b> 36'16	
conjunction	7173 Mar 06 18:01	16° <b>∺</b> 57'24		max. Earth dist.	7179 May 16 05:35		10.81151 AU
minimum elong	7173 Mar 06 18:00	16° <b>¥</b> 57'24	0°18'17	morning rise	7179 Jun 01 20:13	29° <b>8</b> 37'30	
max. Earth dist.	7173 Mar 06 17:53	16° <b>升</b> 57′22	10.82125 AU		7179 Jun 05 00:42	$\Pi$ $\circ 0$	
morning rise	7173 Mar 23 13:14	18° <b>¥</b> 58'16		retrograde	7179 Sep 13 18:28	7° <b>Ⅱ</b> 03'13	
retrograde	7173 Jul 02 07:12	26° <b>ℋ</b> 10'07		opposition	7179 Nov 23 05:24	3° <b>Ⅱ</b> 40'51	-2°31'02
opposition	7173 Sep 10 01:08	22° <b>)</b> 50'42	-0°37'40	min. Earth dist.	7179 Nov 23 00:31	3° <b>Ⅱ</b> 41'46	8.78979 AU
min. Earth dist.	7173 Sep 10 00:03	22° <b>)</b> 50′54		direct	7180 Jan 31 05:08	0° <b>Ⅱ</b> 21'39	
direct	7173 Nov 19 14:34	19° <b>)</b> 29'24	0.01012110	evening set	7180 May 10 09:29	7° <b>I</b> I34'37	
	7174 Mar 01 20:48	26° <b>)</b> (45'23		evening set	/100 May 10 07.27	1 113431	
evening set	/1/4 Mai 01 20.48	20 <b>X</b> 43 23			7100 14 27 04 40	00 <b>T</b> 26100	2002124
				conjunction	7180 May 27 04:49	9° <b>Ⅱ</b> 36'09	
conjunction	7174 Mar 18 15:52	28° <b>)</b> 45'49		minimum elong	7180 May 27 04:49	9° <b>Ⅱ</b> 36′09	2°03'28
minimum elong	7174 Mar 18 15:51	28° <b>)</b> 45′48	0°42'56	max. Earth dist.	7180 May 27 09:45		10.76239 AU
max. Earth dist.	7174 Mar 18 17:34	28° <b>)</b> 46′19	10.85554 AU	morning rise	7180 Jun 13 03:21	11° <b>Ⅲ</b> 38'39	
	7174 Mar 28 22:55	$0$ ° $\mathbf{\Upsilon}$		retrograde	7180 Sep 25 13:46	19° <b>Ⅱ</b> 09'07	
morning rise	7174 Apr 04 09:52	0° <b>Ƴ</b> 45'57		opposition	7180 Dec 04 22:00	15° <b>Ⅱ</b> 45'58	-2°30'24
retrograde	7174 Jul 14 14:09	7° <b>Ƴ</b> 57'41		min. Earth dist.	7180 Dec 04 17:42	15° <b>Ⅱ</b> 46'47	8.73536 AU
opposition	7174 Sep 22 14:04	4° <b>Υ</b> 38'04	-1°06'51	direct	7181 Feb 11 12:19	12° <b>Ⅱ</b> 26′27	
min. Earth dist.	7174 Sep 22 11:38	4° <b>Υ</b> 38'31		evening set	7181 May 22 16:29	19° <b>Ⅱ</b> 42'17	
direct	7174 Dec 02 00:06	1° <b>Υ</b> 17'32	0.00703710	evening set	7101 May 22 10.29	17 12 17	
evening set	7174 Dec 02 00:00 7175 Mar 13 17:56	8° <b>Υ</b> 30'25		conjunction	7181 Jun 08 14:24	21° <b>II</b> 45'15	200002
evening set	/1/3 Wiai 13 1/.30	0 13023					
				minimum elong	7181 Jun 08 14:25	21° <b>Ⅱ</b> 45'15	
conjunction	7175 Mar 30 11:33	10° <b>Y</b> 30′12		max. Earth dist.	7181 Jun 08 18:49		10.70336 AU
minimum elong	7175 Mar 30 11:31	10° <b>Ƴ</b> 30'11		morning rise	7181 Jun 25 16:06	23° <b>Ⅱ</b> 49'19	
max. Earth dist.	7175 Mar 30 14:17	10° <b>Ƴ</b> 31'01	10.87592 AU		7181 Aug 27 18:48	$0$ $\circ$ $\odot$	
morning rise	7175 Apr 16 04:48	12° <b>Y</b> 29'55		retrograde	7181 Oct 08 12:42	1° <b>5</b> 24'48	
retrograde	7175 Jul 26 20:03	19° <b>Ƴ</b> 42'38			7181 Nov 20 01:21	30°RⅡ	
opposition	7175 Oct 05 02:07	16° <b>Ƴ</b> 22'42	-1°33'07	opposition	7181 Dec 17 17:02	28° <b>Ⅱ</b> 00'50	-2°23'00
min. Earth dist.	7175 Oct 04 23:18	16° <b>Ƴ</b> 23'13		min. Earth dist.	7181 Dec 17 13:19	28°∏01'33	8.67201 AU
direct	7175 Dec 14 06:36	13° <b>Υ</b> 02'47		direct	7182 Feb 24 00:01	24° <b>∏</b> 40'48	
evening set	7176 Mar 24 14:05	20° <b>Υ</b> 13'39		direct	7182 May 17 23:15	0°95	
evening set	/1/0 Wai 24 14.03	20 11339		avanina aat	•	2° <b>5</b> 00'17	
	7176 1 10 06 26	22° <b>Y</b> 13'04	1005122	evening set	7182 Jun 04 04:45	2 90017	
conjunction	7176 Apr 10 06:36				#100 X 01 04 0#	40.00.4150	1051100
minimum elong	7176 Apr 10 06:34	22° <b>Y</b> 13′04		conjunction	7182 Jun 21 06:07	4° <b>©</b> 04'59	
max. Earth dist.	7176 Apr 10 09:23		10.88162 AU	minimum elong	7182 Jun 21 06:09	4°905'00	
morning rise	7176 Apr 26 23:44	24° <b>Ƴ</b> 12'40		max. Earth dist.	7182 Jun 21 10:36	4° <b>©</b> 06'22	10.63670 AU
	7176 Jun 25 15:07	$9^{\circ}$ 8		morning rise	7182 Jul 08 11:29	6° <b>©</b> 10'53	
retrograde	7176 Aug 07 03:31	1° <b>8</b> 27'22		retrograde	7182 Oct 21 17:33	13° <b>©</b> 51'26	
	7176 Sep 19 19:28	30° <b>ŖƳ</b>		opposition	7182 Dec 30 14:40	10° <b>5</b> 26'38	-2°08'52
opposition	7176 Oct 16 13:44	28° <b>Ƴ</b> 07'00	-1°55'28	min. Earth dist.	7182 Dec 30 11:11	10°927'18	8.60214 AU
min. Earth dist.	7176 Oct 16 10:56	28° <b>Ƴ</b> 07'31	8.87980 AU	direct	7183 Mar 08 13:48	7° <b>©</b> 05'52	
direct	7176 Dec 25 12:52	24° <b>Ƴ</b> 47'30		evening set	7183 Jun 16 23:01	14°529'43	
direct	7177 Mar 19 05:34	0°8		evening set	7103 3411 10 23.01	11 (2) 13	
		_		:	7102 1-1 04 04:25	1.69@26124	1927/55
evening set	7177 Apr 05 10:10	1° <b>8</b> 57'26		conjunction	7183 Jul 04 04:25	16°936'24	
				minimum elong	7183 Jul 04 04:28	16°536'25	
conjunction	7177 Apr 22 02:15	3° <b>8</b> 56'50		max. Earth dist.	7183 Jul 04 08:49		10.56472 AU
minimum elong	7177 Apr 22 02:13	3° <b>8</b> 56'49		morning rise	7183 Jul 21 13:45	18°5544'20	
max. Earth dist.	7177 Apr 22 05:21		10.87243 AU	retrograde	7183 Nov 04 02:13	26° <b>©</b> 29'48	
morning rise	7177 May 08 19:46	5° <b>8</b> 56'38		opposition	7184 Jan 12 15:13	23° <b>5</b> 04'13	-1°48'19
retrograde	7177 Aug 19 12:34	13° <b>8</b> 14'16		min. Earth dist.	7184 Jan 12 11:59	23°504'50	8.52805 AU
opposition	7177 Oct 29 01:50	9° <b>8</b> 53'19	-2°13'03	direct	7184 Mar 20 07:24	19° <b>©</b> 42'35	
min. Earth dist.	7177 Oct 28 22:23		8.86353 AU	evening set	7184 Jun 29 00:04	27°©11'30	
direct	7178 Jan 06 17:57	6° <b>8</b> 34'07		<i>5</i>			
evening set	7178 Apr 17 07:13	13° <b>8</b> 44'05		conjunction	7184 Jul 16 09:38	29° <b>5</b> 20'19	-1°17'45
John John	, 1, 0 11pr 11 01.13	15 07		conjunction	, 10 1 241 10 07.30	L) -2019	1 1 1 73
	7178 Apr 27 22:05	15°₩		minimum alang	7184 Int 16 00:40	2000520110	101750
	7178 Apr 27 22:05	15° <b>8</b>		minimum elong max. Earth dist.	7184 Jul 16 09:40 7184 Jul 16 12:54	29°520'19	1°17'50 10.48994 AU

	7184 Jul 21 17:26	$0^{\circ}\Omega$		conjunction	7190 Oct 08 00:31	19° <b>≙</b> 33'47	1°20'17
morning rise	7184 Aug 02 23:02	1° <b>Ω</b> 30′20		minimum elong	7190 Oct 08 00:29	19° <b>≙</b> 33'46	1°20'19
retrograde	7184 Nov 16 15:16	9° <b>Ω</b> 20′30		max. Earth dist.	7190 Oct 07 22:00		10.20632 AU
opposition	7185 Jan 24 18:55	5° <b>Ω</b> 54'14		morning rise	7190 Oct 25 23:13	21° <b>≏</b> 50'19	
min. Earth dist.	7185 Jan 24 16:31		8.45290 AU	retrograde	7191 Feb 06 22:43	29° <b>≏</b> 49'49	
direct	7185 Apr 02 05:10	2° <b>Ω</b> 31'38		opposition	7191 Apr 15 00:09	26° <b>£</b> 23'05	1°52'47
evening set	7185 Jul 12 08:20	10° <b>Ω</b> 06'11		min. Earth dist.	7191 Apr 15 02:13	26° <b>£</b> 22'40	8.20841 AU
				direct	7191 Jun 21 14:41	22° <b>£</b> 54'56	
conjunction	7185 Jul 29 21:59	12° <b>Ω</b> 17'08			7191 Sep 26 19:06	0°M	
minimum elong	7185 Jul 29 22:01	12° <b>Ω</b> 17'09	0°54'29	evening set	7191 Oct 04 14:26	0° <b>™</b> 57'48	
max. Earth dist.	7185 Jul 29 23:32		10.41630 AU		7101 0 + 22 12 21	20 <b>m</b> 1 4102	1020152
morning rise	7185 Aug 16 15:21	14° <b>Ω</b> 29'14		conjunction	7191 Oct 22 12:31	3°M14'03	1°39'53
. 1	7185 Aug 20 20:31	15° <b>Ω</b>		minimum elong	7191 Oct 22 12:28	3°M14'02	1°39'56
retrograde	7185 Nov 30 08:45	22° <b>Ω</b> 23'34	0051100	max. Earth dist.	7191 Oct 22 08:53		10.21328 AU
opposition min. Earth dist.	7186 Feb 07 01:54 7186 Feb 07 00:48	18° <b>Ω</b> 56'46 18° <b>Ω</b> 56'59	8.38133 AU	morning rise	7191 Nov 09 09:03	5°M29'52 13°M26'33	
direct	7186 Apr 15 06:55	18 <b>δι</b> 30 39 15° <b>Ω</b> 33'04	6.36133 AU	retrograde opposition	7192 Feb 20 17:55 7192 Apr 27 17:04	10°M00'29	2°13'43
	7186 Apr 13 00.33 7186 Jul 25 23:54	23°Ω13'33		min. Earth dist.	7192 Apr 27 17:04 7192 Apr 27 20:09	9°M59'52	8.22463 AU
evening set	/180 Jul 23 23.34	23 6613 33		direct	7192 Apr 27 20:09 7192 Jul 04 15:23	6°M32'00	6.22403 AU
conjunction	7186 Aug 12 17:19	25°Ω26'29	-0°27'56	evening set	7192 Jul 04 13:23 7192 Oct 18 02:05	14°M35'37	
minimum elong	7186 Aug 12 17:19	$25^{\circ}\Omega 26'29$		evening set	7192 Oct 18 02:03 7192 Oct 21 08:02	15°M	
max. Earth dist.	7186 Aug 12 17:24		10.34846 AU		7172 Oct 21 00.02	13 116	
morning rise	7186 Aug 30 14:04	27° <b>Ω</b> 40'26	10.54040 AC	conjunction	7192 Nov 04 22:08	16°M50'59	1°53'49
morning rise	7186 Sep 19 03:19	0° m		minimum elong	7192 Nov 04 22:06 7192 Nov 04 22:06	16°M50'58	1°53'53
retrograde	7186 Dec 14 04:35	5° m 38'07		max. Earth dist.	7192 Nov 04 17:25		10.23782 AU
opposition	7187 Feb 20 11:54	2° mp 10'55	-0°17'02	morning rise	7192 Nov 22 15:57	19°M05'40	10.23702710
min. Earth dist.	7187 Feb 20 11:58		8.31785 AU	retrograde	7193 Mar 05 09:56	26°M58'26	
min. Eurin Gigt.	7187 Mar 21 23:47	30°R <b>Ω</b>	0.51700110	opposition	7193 May 11 09:01	23°M33'09	2°27'03
direct	7187 Apr 28 15:02	28° <b>Ω</b> 46'06		min. Earth dist.	7193 May 11 12:36	23°M32'26	8.25766 AU
	7187 Jun 04 19:14	0°m∕		direct	7193 Jul 18 16:10	20°M04'35	
evening set	7187 Aug 08 22:33	6° m/32'31		evening set	7193 Nov 01 10:24	28° <b>™</b> 07'18	
asc. node	7187 Aug 21 11:45	8° <b>m</b> )06'51		Č	7193 Nov 16 08:29	0° <b>∡</b> ¹	
	C	•					
conjunction	7187 Aug 26 19:03	8° <b>m</b> 47'07	0°00'25	conjunction	7193 Nov 19 04:00	0° <b>≯</b> 21'26	2°01'22
minimum elong	7187 Aug 26 19:04	8° <b>m</b> 47'07	0°00'24	minimum elong	7193 Nov 19 03:59	0° <b>∡</b> ¹21'26	2°01'27
behind sun begin	7187 Aug 26 11:48	8° <b>m</b> 44'51		max. Earth dist.	7193 Nov 18 22:54	0° <b>∡</b> 19'49	10.27840 AU
behind sun end	7187 Aug 27 02:19	8° <b>m</b> 49'23		morning rise	7193 Dec 06 18:45	2° <b>҂</b> ³34'41	
max. Earth dist.	7187 Aug 26 18:09	8° Mp 46'53	10.29052 AU	retrograde	7194 Mar 18 22:25	10° <b>х</b> 22′34	
morning rise	7187 Sep 13 18:06	11° <b>m</b> )02'31		opposition	7194 May 24 23:07	6° <b>≯</b> 58'12	2°32'11
retrograde	7187 Dec 28 01:22	19° <b>m</b> 02'31		min. Earth dist.	7194 May 25 02:33	6° <b>₮</b> 57'30	8.30546 AU
opposition	7188 Mar 05 00:25	15° <b>m</b> 35'08	0°18'29	direct	7194 Aug 01 15:45	3° <b>∡</b> ¹29'51	
min. Earth dist.	7188 Mar 05 01:09	15° <b>m</b> 34'59	8.26630 AU	evening set	7194 Nov 15 13:32	11° <b>≯</b> ³30′03	
direct	7188 May 11 04:18	12° <b>m</b> 09'16					
evening set	7188 Aug 22 03:16	20° m/01'13		conjunction	7194 Dec 03 04:32	13° <b>≯</b> 42'43	2°02'17
				minimum elong	7194 Dec 03 04:32	13° <b>≯</b> 42'43	2°02'21
conjunction	7188 Sep 09 01:54	22° <b>m</b> 17'03	0°29'00	max. Earth dist.	7194 Dec 02 23:48		10.33265 AU
minimum elong	7188 Sep 09 01:53	22° Mp 17'03	0°29'00	morning rise	7194 Dec 20 16:05	15° <b>₹</b> 54'21	
max. Earth dist.	7188 Sep 09 00:41		10.24597 AU	retrograde	7195 Apr 01 06:09	23° <b>∡</b> 36'45	
morning rise	7188 Sep 27 02:01	24° m/33'23		opposition	7195 Jun 07 11:05	20° <b>₹</b> 13'22	
. 1	7188 Nov 15 20:11	0° <b>™</b>		min. Earth dist.	7195 Jun 07 13:56	20° 🖈 12'48	8.36531 AU
retrograde	7189 Jan 10 00:11	2° <b>£</b> 34'34		direct	7195 Aug 15 13:44	16° <b>₹</b> 45'32	
	7189 Mar 07 16:02	30°RM)	0952120	evening set	7195 Nov 29 10:04	24° <b>₹</b> 41'47	
opposition	7189 Mar 18 15:07	29° Mp 07'10	0°53'20		7105 D 16 22-24	269.752150	1057142
min. Earth dist. direct	7189 Mar 18 15:56 7189 May 24 20:51	29° Mp 07'00 25° Mp 40'23	8.22972 AU	conjunction minimum elong	7195 Dec 16 22:24 7195 Dec 16 22:25	26° ₹ 52'50 26° ₹ 52'50	1°56'43 1°56'48
direct	7189 May 24 20.31 7189 Aug 05 14:07	23 ال <b>ا</b> 40 23 0° <b>Ω</b>		max. Earth dist.	7195 Dec 16 22.25 7195 Dec 16 18:37		1 30 48 10.39757 AU
evening set	7189 Sep 05 12:37	ა <b>=</b> 3° <b>ჲ</b> 37'06		morning rise	7196 Jan 03 06:50	20 <b>x</b> 31 38 29° <b>x</b> 02'44	10.39/3/ AU
evening set	/10/5cp 03 12.3/	3 <b>—</b> 3700		morning risc	7196 Jan 11 03:21	29 <b>メ</b> ・02 44	
conjunction	7189 Sep 23 12:14	5° <b>£</b> 53'39	0°56'10	retrograde	7196 Apr 13 10:06	6° <b>る</b> 39'26	
minimum elong	7189 Sep 23 12:14 7189 Sep 23 12:12	5° <b>£</b> 53'38	0°56'11	opposition	7196 Apr 13 10.00 7196 Jun 19 20:17	3°る17'02	2°18'17
max. Earth dist.	7189 Sep 23 12:12 7189 Sep 23 10:36		10.21740 AU	min. Earth dist.	7196 Jun 19 20:17	3°る1702 3°る16'34	8.43399 AU
morning rise	7189 Oct 11 12:13	8° <b>£</b> 10′22	10.21/70 AU	mm. Durin dist.	7196 Aug 14 07:10	30°R. <b>✓</b>	5. 15577 AU
retrograde	7190 Jan 24 00:15	16° <b>⊆</b> 11'24		direct	7196 Aug 28 07:31	29° <b>×1</b> 49'57	
opposition	7190 Apr 01 07:19	12° <b>-</b> 44'13	1°25'26		7196 Sep 11 06:37	0°る	
min. Earth dist.	7190 Apr 01 08:33	12° <b>-</b> 43′58	8.21010 AU	evening set	7196 Dec 11 23:36	7° <b>る</b> 41'10	
	/ 1 2 U / ADI UI UO ) . 1						
direct	-	9° <b>£</b> 16'38	0.21010110	evening see	7170 Dec 11 25.50	, 0.110	
evening set	7190 Apr 01 08:33 7190 Jun 07 15:50 7190 Sep 20 01:08		0.21010110	conjunction	7196 Dec 29 09:17	9° <b>ප</b> 50'33	1°45'15

	710(D 20 00 10	00750122	1045110	. ,.	7202 M 12 10 12	220 1/ 27/27	0021124
minimum elong	7196 Dec 29 09:19	9°る50'33		conjunction	7203 Mar 13 10:13	23° <b>¥</b> 27'27	
max. Earth dist.	7196 Dec 29 06:14 7197 Jan 15 14:56	9° <b>6</b> 4936 11° <b>る</b> 58'44	10.46968 AU	minimum elong	7203 Mar 13 10:12	23° <b>₩</b> 27'26	10.85283 AU
morning rise	7197 Jan 15 14:56 7197 Apr 26 10:13	11°638'44 19° <b>る</b> 29'43		max. Earth dist.	7203 Mar 13 10:57	25° <del>H</del> 27'50	10.85283 AU
retrograde	7197 Apr 26 10:13 7197 Jul 03 02:19	19 <b>3</b> 2943	2°00'40	morning rise	7203 Mar 30 04:44	23 <b>π</b> 2/30 0° <b>Υ</b>	
opposition min. Earth dist.	7197 Jul 03 02:19 7197 Jul 03 04:55	16 308 19 16° <b>る</b> 07'48	8.50797 AU	retrograde	7203 May 12 09:54 7203 Jul 09 04:50	0 γ 2° <b>Υ</b> 39'20	
direct		10 30748 12° <b>3</b> 42'07	8.30/9/ AU	renograde		2 1 39 20 30°R <b>∺</b>	
evening set	7197 Sep 10 20:29 7197 Dec 25 05:53	12 34207 20° <b>る</b> 27'37		opposition	7203 Sep 08 03:59 7203 Sep 17 01:06	29° <b>₩</b> 20'26	0052115
evening set	/19/ Dec 23 03.33	20 02/3/		min. Earth dist.	7203 Sep 17 01:00 7203 Sep 17 00:13		8.86860 AU
conjunction	7198 Jan 11 12:56	22° <b>る</b> 35'19	1°28'43	direct	7203 Sep 17 00:13	26°\(\)\(\)\(\)00'06	6.60600 AU
minimum elong	7198 Jan 11 12:58	22° <b>る</b> 35'20		direct	7204 Feb 07 03:00	20 <b>γ</b> 00 00	
max. Earth dist.	7198 Jan 11 12.38 7198 Jan 11 09:52		10.54524 AU	avaning sat	7204 Feb 07 03:00 7204 Mar 07 12:53	3° <b>Υ</b> 14'15	
morning rise	7198 Jan 28 16:09	22 <b>33</b> 4 22 24° <b>る</b> 41'52	10.34324 AU	evening set	7204 Mai 07 12.33	3 1 14 13	
morning rise	7198 Mar 20 03:56	24 O41 32 0°≈		conjunction	7204 Mar 24 07:01	5° <b>Υ</b> 14'13	0055100
ratragrada	7198 May 09 04:20	0 ∞ 2°≈07'28		minimum elong	7204 Mar 24 07:01 7204 Mar 24 06:59	5° <b>Υ</b> 14'12	
retrograde	7198 Jun 30 02:37	2 ≈0728 30°Rる		max. Earth dist.	7204 Mar 24 00:39		10.88000 AU
opposition	7198 Jul 16 05:17	30 KO 28° <b>石</b> 46'57	1°37'28	morning rise	7204 Mai 24 07.39 7204 Apr 10 00:42	7° <b>Υ</b> 14'02	10.88000 AU
min. Earth dist.	7198 Jul 16 07:46	28° <b>る</b> 46'28	8.58350 AU	retrograde	7204 Apr 10 00:42 7204 Jul 20 09:49	$14^{\circ}$ <b>Y</b> $26'00$	
direct	7198 Sep 24 06:08	28 34028 25° <b>る</b> 21'46	6.36330 AU	opposition	7204 Jul 20 09.49 7204 Sep 28 13:37	14 <b>γ</b> 20 00 11° <b>γ</b> 06'47	1021/01
direct	7198 Sep 24 06.08 7198 Dec 11 17:37	23 <b>3</b> 21 40 0° <b>≈</b>		min. Earth dist.	7204 Sep 28 13:58	11 <b>γ</b> 00 47 11° <b>γ</b> 07'06	8.88789 AU
avaning sat	7199 Jan 07 04:53	0 ∞ 3°≈01'11		direct	7204 Sep 28 11.38 7204 Dec 07 20:40	7° <b>Υ</b> 47'04	6.66769 AU
evening set	/199 Jan 0/ 04.33	3 20111			7204 Dec 07 20:40 7205 Mar 19 09:40	14° <b>Υ</b> 58'46	
conjunction	7199 Jan 24 09:21	5° <b>≈</b> 07'14	1°08'09	evening set	7203 Mai 19 09.40	14   3840	
minimum elong	7199 Jan 24 09:21 7199 Jan 24 09:23	5°≈07'15	1°08'13	conjunction	7205 Apr 05 02:40	16° <b>Y</b> 58'16	1016127
max. Earth dist.	7199 Jan 24 09:23 7199 Jan 24 06:34		10.62049 AU	minimum elong	7205 Apr 05 02:37	16° <b>Υ</b> 58'15	
	7199 Jan 24 00:34 7199 Feb 10 10:26	7°≈12'15	10.02049 AU	max. Earth dist.	7205 Apr 05 04:39		10.89057 AU
morning rise	7199 Feb 10 10.26 7199 May 21 18:11	/ ≈1213 14°≈33'09				$18^{\circ}$ <b>Y</b> 57'49	10.89037 AU
retrograde opposition	7199 May 21 18.11 7199 Jul 29 05:03	14 ≈33 09 11°≈13'21	1°10'04	morning rise retrograde	7205 Apr 21 19:44 7205 Aug 01 18:19	26° <b>Υ</b> 11'25	
min. Earth dist.	7199 Jul 29 05:03 7199 Jul 29 06:41	11 ≈1321 11°≈13'02	8.65701 AU	opposition	7205 Aug 01 18:19 7205 Oct 11 01:34	$20^{\circ}$ $\Upsilon$ 11 23 $22^{\circ}$ $\Upsilon$ 51'44	1945'20
direct	7199 Jul 29 00:41 7199 Oct 07 12:47	7°≈49'14	8.03701 AU	min. Earth dist.	7205 Oct 11 01:34 7205 Oct 10 23:04		8.89035 AU
direct	7200 Jan 16 17:27	7 ≈49 14 15°≈		direct	7205 Dec 20 04:17	$19^{\circ}$ <b>Y</b> $32^{\circ}$ <b>2</b> 8	8.89033 AU
evening set	7200 Jan 10 17:27 7200 Jan 19 21:12	15 ∞ 15°≈22'33		evening set	7206 Mar 31 06:00	26° <b>Y</b> 42'47	
evening set	/200 Jan 19 21.12	13 222 33		evening set	/200 Mai 31 00.00	20   424/	
conjunction	7200 Feb 05 23:21	17° <b>≈</b> 27'02	0°44'43	conjunction	7206 Apr 16 22:19	28° <b>Ƴ</b> 42'09	-1°34'34
minimum elong	7200 Feb 05 23:22	17°≈27'03	0°44'47	minimum elong	7206 Apr 16 22:17		1°34'37
max. Earth dist.	7200 Feb 05 23:22 7200 Feb 05 21:38	17°≈26'31		max. Earth dist.	7206 Apr 10 22:17 7206 Apr 17 01:05		1 34 37 10.88451 AU
morning rise	7200 Feb 22 22:27	17 ≈2031 19°≈30'37	10.09199 AO	max. Earth dist.	7206 Apr 17 01:03 7206 Apr 27 18:13	0° <b>8</b>	10.88431 AU
retrograde	7200 Jun 02 06:36	26°≈47'39		morning rise	7206 Apr 27 18:13	0° <b>8</b> 41'47	
opposition	7200 Juli 02 00:30 7200 Aug 10 01:37	20 ≈47 39 23°≈28'21	0°39'54	retrograde	7206 May 03 13:22 7206 Aug 14 03:26	7° <b>8</b> 58'01	
min. Earth dist.	7200 Aug 10 01:37	23°≈28'19		opposition	7206 Aug 14 03:20 7206 Oct 23 13:53	4° <b>8</b> 37'41	2°05'17
direct	7200 Aug 10 01:49 7200 Oct 19 12:52	23 ≈28 19 20°≈05'20	6.72319 AU	min. Earth dist.	7206 Oct 23 13:33 7206 Oct 23 11:01		8.87660 AU
evening set	7200 Oct 17 12:32 7201 Jan 31 07:34	20 ≈03 20 27°≈32'49		direct	7207 Jan 01 08:45	1° <b>8</b> 18'38	0.07000 AC
evening set	7201 Jan 31 07.34	21 ~3249		evening set	7207 Jan 01 08:43 7207 Apr 12 02:52	8° <b>8</b> 28'36	
conjunction	7201 Feb 17 07:34	29°≈35'54	0°19'35	evening set	7207 Apr 12 02.32	8 <b>O</b> 2830	
minimum elong	7201 Feb 17 07:35	29°≈35'54		conjunction	7207 Apr 28 19:03	10° <b>8</b> 28'09	-1°48'45
max. Earth dist.	7201 Feb 17 07:34		10.75643 AU	minimum elong	7207 Apr 28 19:01	10° <b>8</b> 28'09	
max. Lartii dist.	7201 Feb 20 14:49	0° <b>∺</b>	10.730 <del>4</del> 3 AO	max. Earth dist.	7207 Apr 28 21:31		10.86281 AU
morning rise	7201 Nar 06 04:49	1° <b>)</b> 38′13		morning rise	7207 Apr 28 21:51 7207 May 15 12:55	12° <b>8</b> 28'13	10.00201 AC
retrograde	7201 Jun 14 15:47	8° <b>H</b> 52'18		morning rise	7207 Jun 06 23:59	15° <b>8</b>	
opposition	7201 Aug 22 19:33	5° <b>∺</b> 33'21	0°08'24	retrograde	7207 Aug 26 14:02	19° <b>8</b> 47'56	
min. Earth dist.	7201 Aug 22 19:53 7201 Aug 22 18:57	5° <b>∺</b> 33'28	8.78490 AU	opposition	7207 Aug 20 14.02 7207 Nov 05 02:53	19 <b>8</b> 26'47	2020/03
direct	7201 Aug 22 18.37 7201 Nov 01 07:25	2° <b> </b>	6.76490 AU	min. Earth dist.	7207 Nov 05 02:33 7207 Nov 05 00:23		8.84774 AU
desc. node	7201 Nov 30 22:14	2° <b>H</b> 54'24		IIIII. Eartii dist.	7207 Nov 05 00:25 7207 Nov 25 00:50	16 <b>6</b> 27 13	6.64774 AU
		2 \ \ 34 24 9° \ \ 33'35		direct		13° <b>80</b> 7'41	
evening set	7202 Feb 12 13:00	9 ДЗЗЗЗ		direct	7208 Jan 13 14:30 7208 Mar 01 10:04	15° <b>8</b>	
agnismation	7202 Mar 01 10:49	11° <b>)</b> 35′24	0006!14	avanina aat		20° <b>8</b> 18'20	
conjunction	7202 Mar 01 10:49	11 <b>X</b> 35 24 11° <b>X</b> 35'24		evening set	7208 Apr 23 01:30	20 01820	
minimum elong	7202 Mar 01 10:48 7202 Mar 01 04:08	11° <b>X</b> 33'24	0 00 12	conjunction	7208 May 00 19.20	22° <b>8</b> 18'28	1058124
behind sun begin				conjunction	7208 May 09 18:20		
behind sun end	7202 Mar 01 17:28	11° <b>¥</b> 37'23	10 01006 ATT	minimum elong	7208 May 09 18:19	22° <b>8</b> 18'28	
max. Earth dist.	7202 Mar 01 11:37		10.81086 AU	max. Earth dist.	7208 May 09 20:54		10.82673 AU
morning rise	7202 Mar 18 06:28	13° <b>¥</b> 36'38		morning rise	7208 May 26 13:38	24° <b>8</b> 19'19	
retrograde	7202 Jun 26 23:02	20° <b>)</b> 48′52	0022104	, ,	7208 Jul 22 18:14	0°II	
opposition	7202 Sep 04 11:15	17° <b>)</b> (30'03		retrograde	7208 Sep 07 04:12	1° <b>II</b> 43'09	
min. Earth dist.	7202 Sep 04 10:27		8.83351 AU	*.*	7208 Oct 24 21:07	30°R <b>8</b>	2020170
direct	7202 Nov 13 23:26	14° <b>)</b> (08'58		opposition	7208 Nov 16 16:53	28° <b>8</b> 21'04	
evening set	7203 Feb 24 14:28	21° <b>)</b> €26'41		min. Earth dist.	7208 Nov 16 14:14		8.80517 AU
				direct	7209 Jan 24 21:05	25° <b>8</b> 01'44	

	7209 Apr 15 13:24	0° <b>I</b> I			7215 Jun 29 19:53	15° <b>Ω</b>	
evening set	7209 May 05 02:47	2° <b>Ⅱ</b> 14'01		evening set	7215 Jul 20 00:45	17° <b>Ω</b> 23'38	
conjunction	7209 May 21 21:12	4° <b>Ⅱ</b> 15'05		conjunction	7215 Aug 06 16:44	19° <b>Ω</b> 35'56	
minimum elong	7209 May 21 21:12			minimum elong	7215 Aug 06 16:45	19° <b>Ω</b> 35'56	
max. Earth dist.	7209 May 22 00:44		10.77789 AU	max. Earth dist.	7215 Aug 06 19:10		10.35914 AU
morning rise	7209 Jun 07 18:30	6° <b>Ⅱ</b> 17'03		morning rise	7215 Aug 24 11:58	21° <b>Ω</b> 49'18	
retrograde	7209 Sep 19 21:41	13° <b>Ⅱ</b> 45'36		retrograde	7215 Dec 08 03:55	29° <b>Ω</b> 46'21	
opposition	7209 Nov 29 08:46	10° <b>Ⅲ</b> 22'30		opposition	7216 Feb 14 16:18	26° <b>Ω</b> 18'43	
min. Earth dist.	7209 Nov 29 05:21	10° <b>Ⅱ</b> 23'09	8.75071 AU	min. Earth dist.	7216 Feb 14 14:28		8.32769 AU
direct	7210 Feb 06 05:00	7° <b>I</b> I02'46		direct	7216 Apr 21 20:29	22° <b>Ω</b> 53'56	
evening set	7210 May 17 07:43	14° <b>Ⅱ</b> 17′34		. ,	7216 Jul 27 15:33	0° M/	
· · · · · · · · · · · ·	7210 Jun 03 04:31	16° <b>Ⅱ</b> 19'58	2902117	evening set	7216 Aug 01 20:28	0° mµ38′21	
conjunction minimum elong	7210 Jun 03 04:31 7210 Jun 03 04:32	16 <b>П</b> 1938 16° <b>П</b> 19'58		conjunction	7216 Aug 19 15:47	2° m 52'28	0°12'50
max. Earth dist.	7210 Jun 03 04:52 7210 Jun 03 08:58		10.71833 AU	minimum elong	7216 Aug 19 15:48	2° m/ 52'28	
morning rise	7210 Jun 20 04:34	10 <b>H</b> 21 19 18° <b>H</b> 23'24	10./1833 AU	behind sun begin	7216 Aug 19 11:24	2° my 51'05	0 12 32
retrograde	7210 Juli 20 04:34 7210 Oct 02 20:24	25° <b>I</b> 57'01		behind sun end	7216 Aug 19 20:11	2° m <sub>2</sub> 53'50	
opposition	7210 Oct 02 20:24 7210 Dec 12 02:49	22° <b>I</b> I37'01	-2°27'20	max. Earth dist.	7216 Aug 19 20:11 7216 Aug 19 17:17		10.29906 AU
min. Earth dist.	7210 Dec 12 02:49	22° <b>I</b> 33'39		morning rise	7216 Sep 06 13:47	5° Mp 07'27	10.27700710
direct	7211 Feb 18 14:37	19° <b>Ⅱ</b> 12'36	0.00030710	retrograde	7216 Dec 21 01:22	13°Mp07'21	
evening set	7211 May 29 17:39	26° <b>Ⅱ</b> 30'47		asc. node	7217 Feb 05 05:01	11° <b>m</b> 21'19	
e venning see	7211 Way 25 17.35	20 1250 17		opposition	7217 Feb 27 04:13	9° m 39'35	0°02'04
conjunction	7211 Jun 15 17:27	28° <b>Ⅱ</b> 34'50	-1°55'58	min. Earth dist.	7217 Feb 27 03:06	9° m 39'48	8.27336 AU
minimum elong	7211 Jun 15 17:29	28° <b>Ⅱ</b> 34'51		direct	7217 May 05 06:51	6° m 13'53	
max. Earth dist.	7211 Jun 15 21:26	28° <b>Ⅱ</b> 36′03	10.65053 AU	evening set	7217 Aug 15 22:57	14° <b>m</b> 04'01	
	7211 Jun 27 08:19	0°©		C	8	Î	
morning rise	7211 Jul 02 21:01	0°9540'03		conjunction	7217 Sep 02 20:43	16° <b>m</b> 19'34	0°15'55
retrograde	7211 Oct 15 23:56	8°518'49		minimum elong	7217 Sep 02 20:43	16° <b>m</b> 19'34	0°15'54
opposition	7211 Dec 24 23:20	4°953'47	-2°16'20	max. Earth dist.	7217 Sep 02 20:44	16° <b>m</b> 19'34	10.25138 AU
min. Earth dist.	7211 Dec 24 20:00	4°954'26	8.61544 AU	morning rise	7217 Sep 20 20:31	18° <b>m</b> 35'44	
direct	7212 Mar 02 01:33	1° <b>9</b> 32'44		retrograde	7218 Jan 04 01:04	26° № 37′20	
evening set	7212 Jun 10 09:17	8° <b>5</b> 55'09		opposition	7218 Mar 12 18:33	23° <b>m</b> 09'41	0°37'32
				min. Earth dist.	7218 Mar 12 18:41	23° <b>m</b> 09'39	8.23314 AU
conjunction	7212 Jun 27 12:43	11° <b>©</b> 01'07	-1°44'11	direct	7218 May 18 21:21	19° <b>m</b> 43'10	
minimum elong	7212 Jun 27 12:45	11° <b>©</b> 01'08	1°44'17	evening set	7218 Aug 30 07:02	27° <b>m</b> 38'31	
max. Earth dist.	7212 Jun 27 15:47	11°502'04	10.57735 AU				
morning rise	7212 Jul 14 20:18	13° <b>©</b> 08'19		conjunction	7218 Sep 17 06:15	29° <b>m</b> 54'59	0°43'57
retrograde	7212 Oct 28 05:41	20° <b>©</b> 52'15		minimum elong	7218 Sep 17 06:13	29° <b>m</b> 54'58	0°43'58
opposition	7213 Jan 05 22:56	17° <b>5</b> 26'21		max. Earth dist.	7218 Sep 17 04:56		10.21894 AU
min. Earth dist.	7213 Jan 05 20:23		8.54041 AU		7218 Sep 17 22:01	0∘ <b>ত</b>	
direct	7213 Mar 14 18:13	14°904'27		morning rise	7218 Oct 05 06:37	2° <b>£</b> 11'48	
evening set	7213 Jun 23 07:09	21° <b>©</b> 31'45		retrograde	7219 Jan 18 01:25	10° <b>£</b> 13'49	
. ,.	7212 1 1 10 14 42	220520140	1007114	opposition	7219 Mar 26 10:50	6° <b>£</b> 46'31	1°11'11
conjunction	7213 Jul 10 14:43	23°539'49		min. Earth dist.	7219 Mar 26 11:50	6° <b>£</b> 46′18	8.20939 AU
minimum elong max. Earth dist.	7213 Jul 10 14:45 7213 Jul 10 17:24	23°S39'49	1°27'19 10.50200 AU	direct evening set	7219 Jun 01 16:20	3° <b>ഫ</b> 19'20 11° <b>ഫ</b> 18'59	
		25°949'07	10.30200 AU	evening set	7219 Sep 13 19:04	11 = 18 39	
morning rise	7213 Jul 28 02:28 7213 Sep 03 14:33	23° <b>93</b> 49'07 0° <b>Ω</b>		conjunction	7219 Oct 01 18:34	13° <b>≏</b> 35'47	1°09'40
retrograde	7213 Sep 03 14:33 7213 Nov 10 16:19	3° <b>Ω</b> 38′01		minimum elong	7219 Oct 01 18:34 7219 Oct 01 18:31	13° <b>⊆</b> 35'46	1°09'43
opposition	7214 Jan 19 01:39	0° <b>Ω</b> 11'21	-1°34'57	max. Earth dist.	7219 Oct 01 16:31 7219 Oct 01 16:35		10.20366 AU
min. Earth dist.	7214 Jan 18 23:34		8.46496 AU	morning rise	7219 Oct 01 10:33 7219 Oct 19 18:09	15° <b>⊆</b> 52'39	.0.20300 AU
mm. Earth dist.	7214 Jan 21 11:12	30°R95	0.10170710	retrograde	7220 Feb 01 00:21	23° <b>⊆</b> 53'43	
direct	7214 Mar 27 15:18	26°548'31		opposition	7220 Apr 08 04:12	20° <b>£</b> 26'58	1°40'56
	7214 May 28 08:07	0°N		min. Earth dist.	7220 Apr 08 05:31	20° <b>£</b> 26'42	8.20351 AU
evening set	7214 Jul 06 12:14	4° <b>Ω</b> 21'13		direct	7220 Jun 14 15:51	16° <b>≏</b> 59'19	
Z .				evening set	7220 Sep 27 08:57	25° <b>≏</b> 01'55	
conjunction	7214 Jul 24 00:09	6° <b>Ω</b> 31'27	-1°05'42	-	•		
minimum elong	7214 Jul 24 00:12	6° <b>£</b> 31′28		conjunction	7220 Oct 15 07:43	27° <b>≏</b> 18'31	1°31'30
max. Earth dist.	7214 Jul 24 03:00	6° <b>£</b> 32′20	10.42803 AU	minimum elong	7220 Oct 15 07:41	27° <b>≏</b> 18'30	1°31'33
morning rise	7214 Aug 10 15:53	8° <b>Ω</b> 42'52		max. Earth dist.	7220 Oct 15 05:27	27° <b>≙</b> 17'47	10.20653 AU
	7214 Oct 11 13:16	15° <b>Ω</b>		morning rise	7220 Nov 02 05:28	29° <b>≙</b> 34'50	
retrograde	7214 Nov 24 08:13	16° <b>Ω</b> 36′12			7220 Nov 05 14:18	0° <b>M</b> ₊	
	7215 Jan 07 17:32	15°R <b>Ω</b>		retrograde	7221 Feb 13 21:20	7°M33'36	
opposition	7215 Feb 01 07:22	13° <b>Ω</b> 08'57	-1°05'59	opposition	7221 Apr 21 21:50	4°M07'32	2°04'57
min. Earth dist.	7215 Feb 01 05:16		8.39280 AU	min. Earth dist.	7221 Apr 21 23:14	4°M07'15	8.21577 AU
direct	7215 Apr 09 15:29	9° <b>Ω</b> 45'08		direct	7221 Jun 28 16:14	0°M39'36	

evening set	7221 Oct 11 22:25	8°M43'33		min. Earth dist.	7227 Jul 10 23:05 7227 Sep 18 18:44	23°る30'56 20°る05'55	8.54407 AU
conjunction	7221 Oct 29 19:36	10°M59'26	1°48'07	evening set	7228 Jan 01 22:32	27° <b>⋜</b> 48'45	
minimum elong	7221 Oct 29 19:34	10°M59'25	1°48'12	-			
max. Earth dist.	7221 Oct 29 17:10	10°ML58'39	10.22718 AU	conjunction	7228 Jan 19 04:23	29° <b>る</b> 55'42	1°17'24
morning rise	7221 Nov 16 14:43	13°M14'44		minimum elong	7228 Jan 19 04:26	29° <b>る</b> 55'43	1°17'28
	7221 Nov 30 23:49	15° <b>M</b> ₊		max. Earth dist.	7228 Jan 19 01:11	29° <b>る</b> 54'43	10.57913 AU
retrograde	7222 Feb 27 16:46	21°M09'52			7228 Jan 19 18:18	0° <b>≈</b>	
opposition	7222 May 05 14:55	17° <b>M</b> 44'37	2°21'49	morning rise	7228 Feb 05 06:24	2° <b>≈</b> 01'33	
min. Earth dist.	7222 May 05 16:42	17° <b>M</b> 44'16	8.24496 AU	retrograde	7228 May 15 17:29	9° <b>≈</b> 25'12	
	7222 Jun 13 22:28	15°RM₊		opposition	7228 Jul 22 22:18	6° <b>≈</b> 05'03	1°22'16
direct	7222 Jul 12 16:46	14°M16'35		min. Earth dist.	7228 Jul 23 00:32	6° <b>≈</b> 04'37	8.61441 AU
	7222 Aug 10 08:59	15° <b>M</b> ₊		direct	7228 Oct 01 02:45	2° <b>≈</b> 40′22	
evening set	7222 Oct 26 09:20	22°M20'10		evening set	7229 Jan 13 18:36	10°≈17'05	
conjunction	7222 Nov 13 04:14	24°M34'56	1°58'37	conjunction	7229 Jan 30 22:01	12° <b>≈</b> 22'29	
minimum elong	7222 Nov 13 04:12	24°M34'55	1°58'41	minimum elong	7229 Jan 30 22:03	12° <b>≈</b> 22'30	0°55'06
max. Earth dist.	7222 Nov 13 01:06		10.26375 AU	max. Earth dist.	7229 Jan 30 19:31	12° <b>≈</b> 21'43	10.64836 AU
morning rise	7222 Nov 30 20:13	26°M48'51		morning rise	7229 Feb 16 21:59	14° <b>≈</b> 26'52	
	7222 Dec 27 19:55	0° <b>∡</b>			7229 Feb 21 13:02	15° <b>≈</b>	
retrograde	7223 Mar 13 08:34	4° <b>∡</b> ³39'17		retrograde	7229 May 28 07:05	21° <b>≈</b> 46'14	
opposition	7223 May 19 06:30	1° <b>∡</b> 14'57		opposition	7229 Aug 04 20:57	18°≈26'31	0°53'05
min. Earth dist.	7223 May 19 09:21	1° <b>∡</b> 14'23	8.28854 AU	min. Earth dist.	7229 Aug 04 23:06	18°≈26'07	8.68119 AU
	7223 Jun 04 04:11	30°RM		direct	7229 Oct 14 05:19	15°≈02'43	
direct	7223 Jul 26 16:48	27°M47'00		evening set	7230 Jan 26 08:19	22° <b>≈</b> 33'30	
. ,	7223 Sep 16 05:51	0°⊀ <b>7</b>		. ,.	7220 F 1 12 00 10	24027126	0020120
evening set	7223 Nov 09 15:36	5° <b>∡</b> 148'39		conjunction	7230 Feb 12 09:18	24°≈37'26	0°30'28
· · · · · · · · · · · ·	7222 Name 27, 07,40	00.702100	2002120	minimum elong	7230 Feb 12 09:19	24°≈37'26	0°30'31
conjunction	7223 Nov 27 07:48	8° 🗷 02'00	2°02'30 2°02'35	max. Earth dist.	7230 Feb 12 07:00	24°≈36'44	10.71242 AU
minimum elong max. Earth dist.	7223 Nov 27 07:48 7223 Nov 27 03:23	8°×702'00	10.31320 AU	morning rise	7230 Mar 01 07:31 7230 Mar 31 01:40	26° <b>≈</b> 40'31 0° <b>米</b>	
morning rise	7223 Nov 27 03.23 7223 Dec 14 20:39	8 <b>x</b> · 00 36 10° <b>x</b> 14′21	10.51520 AU	retrograde	7230 Jun 09 16:18	3° <b>¥</b> 56'30	
retrograde	7224 Mar 25 18:59	10 <b>x</b> 14 21 17° <b>x</b> 59'28		opposition	7230 Aug 17 16:45	0° <b>₩</b> 37'02	0°21'56
opposition	7224 May 31 20:05	14° 🗷 36'07	2°31'12	min. Earth dist.	7230 Aug 17 18:06	0° <b>X</b> 3702	8.74150 AU
min. Earth dist.	7224 May 31 20:03	14° 🗷 35'21	8.34308 AU	min. Earth dist.	7230 Aug 17 18:00 7230 Aug 25 21:01	0 7(3047 30°R≈	8.74130 AU
direct	7224 Aug 08 16:29	11°×708'29	0.54500 AC	direct	7230 Oct 27 04:16	27°≈14'06	
evening set	7224 Nov 22 15:46	19°×706'53		direct	7230 Dec 25 15:39	0° <b>∀</b>	
e venning see	72211101 22 10.10	19 7. 0000		evening set	7231 Feb 07 16:14	4° <b>)</b> 39′22	
conjunction	7224 Dec 10 05:14	21° <b>х</b> 18'41	1°59'45	evening sec	7231100 07 10.11	. 7(3) 22	
minimum elong	7224 Dec 10 05:15		1°59'50	conjunction	7231 Feb 24 15:00	6° <b>)</b> 41'57	0°04'52
max. Earth dist.	7224 Dec 09 23:46		10.37210 AU	minimum elong	7231 Feb 24 15:00	6° <b>)</b> 41′57	
morning rise	7224 Dec 27 15:08	23° <b>∡</b> ¹29'24		behind sun begin	7231 Feb 24 08:08	6° <b>¥</b> 39'53	
C	7225 Mar 03 02:18	0°రె		behind sun end	7231 Feb 24 21:52	6° <b>)</b> 44′00	
retrograde	7225 Apr 08 00:16	1° <b>る</b> 08'59		max. Earth dist.	7231 Feb 24 13:52	6° <b>)</b> 41′38	10.76852 AU
-	7225 May 14 13:59	30°₽ <b>⋌</b> ¹		morning rise	7231 Mar 13 11:37	8° <b>)</b> 43′53	
opposition	7225 Jun 14 07:06	27° <b>∡</b> ¹46'36	2°23'43	desc. node	7231 May 05 20:00	14° <b>)</b> €07'21	
min. Earth dist.	7225 Jun 14 11:23	27° <b>∡</b> ¹45'45	8.40549 AU	retrograde	7231 Jun 22 00:25	15° <b>¥</b> 57'35	
direct	7225 Aug 22 13:29	24° <b>₹</b> 19'31		opposition	7231 Aug 30 09:52	12° <b>∺</b> 38'11	-0°09'46
	7225 Nov 17 14:35	0°₹		min. Earth dist.	7231 Aug 30 09:41		8.79273 AU
evening set	7225 Dec 06 09:20	2°る13'33		direct	7231 Nov 08 23:41	9° <b>∺</b> 16′06	
				evening set	7232 Feb 19 19:39	16° <b>∺</b> 36'30	
conjunction	7225 Dec 23 20:08	4° <b>ප</b> 23'45					
minimum elong	7225 Dec 23 20:10		1°50'52	conjunction	7232 Mar 07 16:30	18° <b>)</b> 37′57	
max. Earth dist.	7225 Dec 23 14:27		10.43781 AU	minimum elong	7232 Mar 07 16:29	18° <b>)</b> 37′57	
morning rise	7226 Jan 10 03:12	6° <b>る</b> 32'48		max. Earth dist.	7232 Mar 07 17:10		10.81428 AU
retrograde	7226 Apr 21 02:10	14° <b>る</b> 06'47		morning rise	7232 Mar 24 11:38	20° <b>)</b> 38′56	
opposition	7226 Jun 27 15:11	10°る45'17		retrograde	7232 Jul 03 07:56	27° <b>)</b> 51'24	00.46***
min. Earth dist.	7226 Jun 27 18:49	10°₹44'34	8.47338 AU	opposition	7232 Sep 11 00:39	24° <b>)</b> 31'56	
direct	7226 Sep 05 06:19	7° <b>る</b> 18'55		min. Earth dist.	7232 Sep 10 23:04	24°\(\frac{1}{32}\)'13	8.83275 AU
evening set	7226 Dec 19 19:40	15° <b>る</b> 07'39		direct	7232 Nov 20 12:30	21° <b>¥</b> 10'39	
	7227 1 07 02 57	17071711	1027/21	evening set	7233 Mar 02 19:41	28° <b>¥</b> 27′03	
conjunction	7227 Jan 06 03:57		1°36'21		7233 Mar 15 19:07	<b>0°</b> Υ	
minimum elong	7227 Jan 06 03:59	17°る16'14	1°36'26	aaniumatiam	7222 Mar. 10, 14:46	0° <b>Ƴ</b> 27'36	0045120
max. Earth dist.	7227 Jan 05 23:23 7227 Jan 23 08:22	17°る14'48 19° <b>る</b> 23'38	10.50784 AU	conjunction minimum elong	7233 Mar 19 14:46 7233 Mar 19 14:44	0° <b>Υ</b> 27'36 0° <b>Υ</b> 27'36	
morning rise retrograde	7227 May 03 23:53	19 <sup>-</sup> <b>る</b> 23 <sup>-</sup> 38 26° <b>る</b> 52'13		max. Earth dist.	7233 Mar 19 14:44 7233 Mar 19 16:47		10.84781 AU
opposition	7227 May 03 23.33 7227 Jul 10 20:22	20 <b>3</b> 32 13 23° <b>3</b> 31'28	1°48'02	morning rise	7233 Apr 05 08:44	$2^{\circ}\Upsilon^{27'52}$	10.0 <del>1</del> /01 AU
эррозион	, 22, vui 10 20.22	25 05126	1 10 02	morning 1150	,233 ripi 03 00.74	- 12/32	

natra ana da	7222 Iul 15 12:57	9° <b>Ƴ</b> 40'14		ratra ara da	7220 San 27 15:12	200T 57142	
retrograde opposition	7233 Jul 15 13:57 7233 Sep 23 14:05	9° <b>γ</b> 40 14 6° <b>γ</b> 20'33 -1	1900!41	retrograde opposition	7239 Sep 27 15:12 7239 Dec 07 00:11	20° <b>∏</b> 57'42 17° <b>∏</b> 34'26	2020146
min. Earth dist.	7233 Sep 23 14:03 7233 Sep 23 11:57		8.85988 AU	min. Earth dist.	7239 Dec 07 00:11 7239 Dec 06 19:58		8.72989 AU
direct	7233 Sep 23 11:37 7233 Dec 02 22:38	3° <b>Υ</b> 00'00	6.63966 AU	direct	7240 Feb 13 15:09	17 <b>Ⅱ</b> 33 14 14° <b>Ⅱ</b> 14'48	6.72969 AU
evening set	7234 Mar 14 17:21	10° <b>Υ</b> 13'22		evening set	7240 May 23 18:08	21° <b>I</b> I30'53	
evening set	7254 Will 14 17.21	10   1322		evening set	7240 May 23 10.00	21 1130 33	
conjunction	7234 Mar 31 10:51	12° <b>Y</b> 13'15 -1	1°07'49	conjunction	7240 Jun 09 16:23	23° <b>Ⅱ</b> 33'57	-1°59'12
minimum elong	7234 Mar 31 10:49	12° <b>Ƴ</b> 13'14 1	1°07'50	minimum elong	7240 Jun 09 16:24	23° <b>Ⅱ</b> 33'58	1°59'17
max. Earth dist.	7234 Mar 31 13:04	12° <b>Ƴ</b> 13'55 1	0.86777 AU	max. Earth dist.	7240 Jun 09 21:34	23° <b>∏</b> 35'33	10.69852 AU
morning rise	7234 Apr 17 04:12	14° <b>Ƴ</b> 13′05		morning rise	7240 Jun 26 18:19	25° <b>Ⅱ</b> 38′09	
retrograde	7234 Jul 27 21:03	21° <b>Y</b> 26'27			7240 Aug 06 01:29	$0$ $\circ$ $\odot$	
opposition	7234 Oct 06 02:39	18° <b>Y</b> 06′26 -1	1°35'36	retrograde	7240 Oct 09 15:35	3° <b>©</b> 13'52	
min. Earth dist.	7234 Oct 06 00:14	18° <b>Y</b> 06'53 8	8.87305 AU		7240 Dec 16 14:04	30°Ŗ <b>Ⅱ</b>	
direct	7234 Dec 15 06:55	14° <b>Ƴ</b> 46′27		opposition	7240 Dec 18 19:10	29° <b>∏</b> 49'48	-2°21'38
evening set	7235 Mar 26 13:52	21° <b>Y</b> 57'48		min. Earth dist.	7240 Dec 18 14:48	29° <b>Ⅱ</b> 50'38	8.66787 AU
				direct	7241 Feb 25 01:58	26° <b>∏</b> 29'41	
conjunction	7235 Apr 12 06:22	23° <b>Y</b> 57'19 -1			7241 May 01 18:23	0	
minimum elong	7235 Apr 12 06:20	23° <b>Y</b> 57'19 1		evening set	7241 Jun 05 06:40	3° <b>5</b> 49'20	
max. Earth dist.	7235 Apr 12 09:06	23° <b>Y</b> 58′09 1	0.87340 AU				
morning rise	7235 Apr 28 23:35	25° <b>Y</b> 57′03		conjunction	7241 Jun 22 08:24	5°954'08	
	7235 Jun 05 18:47	0°8		minimum elong	7241 Jun 22 08:26	5°954'09	
retrograde	7235 Aug 09 03:41	3° <b>8</b> 12'24		max. Earth dist.	7241 Jun 22 14:01		10.63334 AU
•.•	7235 Oct 16 19:26	30° <b>₹</b> Υ	1057120	morning rise	7241 Jul 09 13:56	8°900'08	
opposition	7235 Oct 18 14:42	29° <b>Y</b> 51'54 -1		retrograde	7241 Oct 22 20:01	15°5540'48	2007140
min. Earth dist.	7235 Oct 18 11:33		8.87170 AU	opposition	7241 Dec 31 16:53	12°©15'55	
direct	7235 Dec 27 12:53	26° <b>Ƴ</b> 32'21		min. Earth dist.	7241 Dec 31 12:25		8.59970 AU
avanina aat	7236 Mar 03 04:37	0° <b>と</b> 3° <b>と</b> 42'43		direct	7242 Mar 09 15:46	8° <b>©</b> 55'08 16° <b>©</b> 19'02	
evening set	7236 Apr 06 10:17	3 04243		evening set	7242 Jun 18 01:10	10 2019 02	
conjunction	7236 Apr 23 02:32	5° <b>8</b> 42'13 -1	1°43'18	conjunction	7242 Jul 05 06:49	18° <b>©</b> 25'49	-1°35'00
minimum elong	7236 Apr 23 02:30	5° <b>8</b> 42'13 1		minimum elong	7242 Jul 05 06:51	18° <b>©</b> 25'49	
max. Earth dist.	7236 Apr 23 06:38	5° <b>8</b> 43'27 1		max. Earth dist.	7242 Jul 05 11:47		10.56335 AU
morning rise	7236 May 09 20:03	7° <b>8</b> 42'08		morning rise	7242 Jul 22 16:23	20°533'48	
C	7236 Aug 17 18:03	15° <b>8</b>		retrograde	7242 Nov 05 05:06	28°519'13	
retrograde	7236 Aug 20 13:55	15° <b>8</b> 00'24		opposition	7243 Jan 13 17:27	24°953'36	-1°45'40
C	7236 Aug 23 10:01	15° <b>₹</b> 8		min. Earth dist.	7243 Jan 13 13:43	24°954'20	8.52785 AU
opposition	7236 Oct 30 03:05	11° <b>8</b> 39'18 -2	2°14'30	direct	7243 Mar 22 09:18	21° <b>©</b> 31'56	
min. Earth dist.	7236 Oct 29 22:40	11° <b>8</b> 40'08 8	8.85570 AU	evening set	7243 Jul 01 02:26	29° <b>5</b> 00'47	
direct	7237 Jan 07 19:31	8° <b>8</b> 20'02			7243 Jul 09 03:36	$0^{\circ}\Omega$	
	7237 Apr 14 00:08	15° <b>8</b>					
evening set	7237 Apr 18 07:51	15° <b>8</b> 30'24		conjunction	7243 Jul 18 12:10	1° <b>Ω</b> 09'37	-1°15'25
				minimum elong	7243 Jul 18 12:13	1° <b>Q</b> 09'38	1°15'29
conjunction	7237 May 05 00:26	17° <b>8</b> 30'15 -1	1°54'54	max. Earth dist.	7243 Jul 18 15:09	1° <b>Ω</b> 10′33	10.49101 AU
minimum elong	7237 May 05 00:24	17° <b>8</b> 30'15 1	1°54'57	morning rise	7243 Aug 05 01:55	3° <b>Ω</b> 19'41	
max. Earth dist.	7237 May 05 05:39	17° <b>8</b> 31'50 1	0.84104 AU	retrograde	7243 Nov 18 18:11	11° <b>Ω</b> 09'33	
morning rise	7237 May 21 18:51	19° <b>8</b> 30'43		opposition	7244 Jan 26 20:56	7° <b>Ω</b> 43'19	
retrograde	7237 Sep 02 04:25	26° <b>8</b> 52'38		min. Earth dist.	7244 Jan 26 18:51		8.45505 AU
opposition	7237 Nov 11 16:28	23° <b>8</b> 30'52 -2		direct	7244 Apr 03 06:29	4° <b>£</b> 20′39	
min. Earth dist.	7237 Nov 11 11:32	23° <b>8</b> 31'48 8	8.82574 AU	evening set	7244 Jul 13 10:44	11° <b>Ω</b> 55'03	
direct	7238 Jan 20 00:16	20° <b>8</b> 11'42			7044 1 1 21 00 22	140 005150	0051146
evening set	7238 Apr 30 07:43	27° <b>8</b> 23'01		conjunction	7244 Jul 31 00:33	14° <b>Ω</b> 05'59 14° <b>Ω</b> 06'00	
· · · · · · · · · · · · ·	7020 M 17 01.10	200 🗸 22125 - 2	2001120	minimum elong	7244 Jul 31 00:35		
conjunction	7238 May 17 01:18	29° <b>8</b> 23'35 -2		max. Earth dist.	7244 Jul 31 01:48	14°8706°22 15°Ω	10.41944 AU
minimum elong	7238 May 17 01:18	29° <b>8</b> 23'35 2			7244 Aug 07 05:32		
max. Earth dist.	7238 May 17 06:27	29° <b>8</b> 25'09 1 0° <b>Ⅱ</b>	0.60430 AU	morning rise	7244 Aug 17 18:10 7244 Dec 01 10:14	16° <b>Ω</b> 18'04 24° <b>Ω</b> 11'59	
morning rise	7238 May 22 01:47 7238 Jun 02 21:32	0°Щ 1°Щ24'58		retrograde opposition	7244 Dec 01 10:14 7245 Feb 08 03:39	24°8€11′39 20°Ω45′13	-0°47'44
retrograde	7238 Sep 14 19:49	1 Щ2438 8°Щ51'07		min. Earth dist.	7245 Feb 08 03:59 7245 Feb 08 02:51		8.38522 AU
opposition	7238 Nov 24 07:23	5° <b>П</b> 28'38 -2	2°31'07	direct	7245 Apr 16 09:28	20 <b>δ</b> (43 23 17° <b>Ω</b> 21'31	0.30322 AU
min. Earth dist.	7238 Nov 24 07:23 7238 Nov 24 02:43		8.78323 AU	evening set	7245 Apr 10 09:28 7245 Jul 27 02:04	25° <b>Ω</b> 01'47	
direct	7239 Feb 01 05:38	2° <b>Π</b> 09'20	0.10323 AU	evening set	,270 Jul 2/ U2.U4	20 0 CU1 4/	
evening set	7239 May 12 10:47	9° <b>Ⅱ</b> 22'36		conjunction	7245 Aug 13 19:41	27° <b>Ω</b> 14'40	-0°25'07
5. c18 bot	,20, may 12 10.4/	, 11150		minimum elong	7245 Aug 13 19:42	27°Ω14'41	
conjunction	7239 May 29 06:15	11° <b>Ⅱ</b> 24'15 -2	2°03'10	max. Earth dist.	7245 Aug 13 20:05		10.35301 AU
minimum elong	7239 May 29 06:16	11° <b>II</b> 24'15 2		morning rise	7245 Aug 31 16:29	29° <b>£</b> 28'33	
max. Earth dist.	7239 May 29 11:02	11° <b>II</b> 25'42 1		<b>C</b> -	7245 Sep 04 23:17	0° m/y	
morning rise	7239 Jun 15 05:06	13° <b>Ⅱ</b> 26'52		retrograde	7245 Dec 15 04:37	7° m/25'47	
C				-		•	

opposition min. Earth dist. direct asc. node evening set	7246 Feb 21 13:17 7246 Feb 21 13:09 7246 Apr 29 17:52 7246 Jul 16 06:31 7246 Aug 10 00:35	3° m 58'40 3° m 58'41 0° m 33'54 5° m 24'55 8° m 20'01	-0°13'31 8.32293 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	7251 Nov 06 22:28 7251 Nov 06 22:26 7251 Nov 06 17:16 7251 Nov 24 16:06 7252 Mar 06 09:09 7252 May 12 08:27	18°M34'23 18°M34'22 18°M32'44 20°M48'56 28°M41'16 25°M16'07	1°54'39 1°54'43 10.24356 AU 2°27'41
conjunction minimum elong behind sun begin behind sun end max, Earth dist,	7246 Aug 27 21:15 7246 Aug 27 21:16 7246 Aug 27 14:01 7246 Aug 28 04:30 7246 Aug 27 21:06	10° m 34'34 10° m 34'34 10° m 32'18 10° m 36'50 10° m 34'31	0°03'17 0°03'15	min. Earth dist. direct evening set	7252 May 12 11:54 7252 Jul 19 16:35 7252 Nov 02 10:24 7252 Nov 03 18:21	25°M15'25 21°M47'38 29°M50'04 0°×7	8.26306 AU
morning rise retrograde	7246 Sep 14 20:14 7246 Dec 29 02:40	10 m/3431 12°m/49'52 20°m/49'24	10.29002 AU	conjunction minimum elong	7252 Nov 20 03:54 7252 Nov 20 03:53	2° <b>尽</b> 04'05 2° <b>尽</b> 04'05	2°01'35 2°01'40
opposition	7247 Mar 07 01:24	17° <b>m</b> ) 22'05	0°21'54	max. Earth dist.	7252 Nov 19 23:04		10.28338 AU
min. Earth dist.	7247 Mar 07 01:35	17° mp 22'02	8.27213 AU	morning rise	7252 Dec 07 18:23	4° <b>х</b> 17′13	
direct	7247 May 13 05:13	13° <b>m</b> 56'17		retrograde	7253 Mar 19 20:55	12° <b>х</b> 04'45	
evening set	7247 Aug 24 05:12	21° <b>m</b> 47'56		opposition	7253 May 25 22:19	8° <b>∡</b> ¹40'28	2°32'04
	70.47 G 11 02 52	2.40 7 .02142	0021120	min. Earth dist.	7253 May 26 01:29	8° <b>₹</b> 39'50	8.30996 AU
conjunction minimum elong	7247 Sep 11 03:52 7247 Sep 11 03:50	24° m 03'42 24° m 03'41	0°31'39 0°31'39	direct evening set	7253 Aug 02 16:13 7253 Nov 16 13:04	5° ₹ 12'12 13° ₹ 12'07	
max. Earth dist.	7247 Sep 11 03:30 7247 Sep 11 03:02	•	10.25202 AU	evening set	7233 NOV 10 13.04	13 *1207	
morning rise	7247 Sep 11 03:02 7247 Sep 29 03:48	26° Mp 19'54	10.23202 110	conjunction	7253 Dec 04 04:01	15° <b>∡</b> °24'41	2°01'53
5 5	7247 Oct 30 15:36	0∘ <u>⊽</u>		minimum elong	7253 Dec 04 04:01	15° <b>∡</b> ¹24'41	2°01'58
retrograde	7248 Jan 12 02:09	4° <b>≏</b> 20'35		max. Earth dist.	7253 Dec 03 23:39	15° <b>∡</b> ¹23'19	10.33662 AU
opposition	7248 Mar 19 15:47	0° <b>ჲ</b> 53'17	0°56'28	morning rise	7253 Dec 21 15:18	17° <b>∡</b> "36′12	
min. Earth dist.	7248 Mar 19 16:30	0° <b>ჲ</b> 53'08	8.23594 AU	retrograde	7254 Apr 02 05:42	25° <b>∡</b> 18′20	
	7248 Mar 30 17:20	30°R, Mp		opposition	7254 Jun 08 10:07	21° <b>₹</b> ′55′00	2°28'15
direct	7248 May 25 20:55	27° Tp 26'34		min. Earth dist.	7254 Jun 08 13:13	21° 🗷 54'23	8.36866 AU
avanina aat	7248 Jul 19 12:02 7248 Sep 06 14:19	0° <b>ჲ</b> 5° <b>ჲ</b> 23'02		direct evening set	7254 Aug 16 12:20 7254 Nov 30 09:21	18° <b>х</b> 27′12 26° <b>х</b> 23′12	
evening set	7248 Sep 00 14.19	3 = 23 02		evening set	7234 NOV 30 09.21	20 8 23 12	
conjunction	7248 Sep 24 13:46	7° <b>ჲ</b> 39'26	0°58'31	conjunction	7254 Dec 17 21:33	28° <b>∡</b> °34'11	1°55'45
minimum elong	7248 Sep 24 13:44	7° <b>ჲ</b> 39'26	0°58'33	minimum elong	7254 Dec 17 21:35	28° <b>∡</b> ³34'12	1°55'50
max. Earth dist.	7248 Sep 24 11:44	7° <b>≏</b> 38'48	10.22370 AU	max. Earth dist.	7254 Dec 17 17:32	28° <b>∡</b> ³32'56	10.40027 AU
morning rise	7248 Oct 12 13:33	9° <b>ჲ</b> 56′02			7254 Dec 29 07:33	8°0	
retrograde	7249 Jan 25 01:09	17° <b>≏</b> 56'33		morning rise	7255 Jan 04 05:48	0° <b>る</b> 44'01	
opposition	7249 Apr 02 07:44	14° <b>≙</b> 29'31	1°28'07	retrograde	7255 Apr 15 09:46	8° <b>る</b> 20'27	
min. Earth dist.	7249 Apr 02 09:29	14° <b>£</b> 29'09	8.21649 AU	opposition	7255 Jun 21 19:13	4°る58'07	2°16'46
direct	7249 Jun 08 16:54	11° <b>Ω</b> 02'01		min. Earth dist.	7255 Jun 21 22:33		8.43602 AU
evening set	7249 Sep 21 02:28	19° <b>≏</b> 02'14		direct evening set	7255 Aug 30 05:33 7255 Dec 13 22:34	1°る31'00 9°る22'02	
conjunction	7249 Oct 09 01:35	21° <b>≏</b> 18'45	1°22'13	evening set	7233 Dec 13 22.34	) 022 02	
minimum elong	7249 Oct 09 01:32		1°22'15	conjunction	7255 Dec 31 08:03	11° <b>る</b> 31'22	1°43'47
max. Earth dist.	7249 Oct 08 22:06	21° <b>≏</b> 17'39	10.21270 AU	minimum elong	7255 Dec 31 08:05	11° <b>る</b> 31'23	1°43'52
morning rise	7249 Oct 27 00:08	23° <b>≏</b> 35'09		max. Earth dist.	7255 Dec 31 03:58	11° <b>る</b> 30'06	10.47102 AU
	7249 Dec 27 18:31	$0^{\circ}$ M.		morning rise	7256 Jan 17 13:39	13° <b>る</b> 39'32	
retrograde	7250 Feb 07 22:14	1°M34'09		retrograde	7256 Apr 27 07:49	21° <b>ろ</b> 10'21	
	7250 Mar 22 15:00	30°R <u>Ω</u>	1°54'52	opposition	7256 Jul 04 01:14	17° <b>る</b> 48'57	1°58'35
opposition min. Earth dist.	7250 Apr 16 00:16 7250 Apr 16 03:09	28° <b>£</b> 07'35 28° <b>£</b> 07'00	8.21479 AU	min. Earth dist. direct	7256 Jul 04 04:32 7256 Sep 11 20:00	17°る48'18 14°る22'43	8.50865 AU
direct	7250 Jun 22 15:28	24° <b>£</b> 39'30	6.214/9 AU	evening set	7256 Dec 26 04:26	14 02243 22°る08'05	
	7250 Sep 13 01:45	0°M		evening sec	7200 300 20 0 1.20	22 00000	
evening set	7250 Oct 05 15:22	2°M42'07		conjunction	7257 Jan 12 11:21	24° <b>る</b> 15'45	1°26'50
				minimum elong	7257 Jan 12 11:24	24° <b>る</b> 15'46	1°26'54
conjunction	7250 Oct 23 13:12	4°M58'13	1°41'18	max. Earth dist.	7257 Jan 12 07:24	24° <b>る</b> 14'31	10.54522 AU
minimum elong	7250 Oct 23 13:09	4°M58'13	1°41'21	morning rise	7257 Jan 29 14:39	26° <b>る</b> 22'19	
max. Earth dist.	7250 Oct 23 08:30		10.21951 AU		7257 Mar 02 18:28	0° <b>≈</b>	
morning rise	7250 Nov 10 09:38	7°M13'54 15°M		retrograde	7257 May 10 01:46	3°≈47'53	1°34'56
retrograde	7251 Feb 08 04:29 7251 Feb 21 17:28	15°M10'08		opposition min. Earth dist.	7257 Jul 17 04:05 7257 Jul 17 06:31	0°≈27'19 0°≈26'51	8.58276 AU
ronograuc	7251 Mar 07 06:47	15 1161008 15°RM		mm. Barui uist.	7257 Jul 23 01:42	0 ≈2031 30°Rる	0.30210 AU
opposition	7251 Apr 29 16:49	11°M44'12	2°15'06	direct	7257 Sep 25 06:50	27°る02'06	
min. Earth dist.	7251 Apr 29 20:25	11°M43'28	8.23068 AU		7257 Nov 25 15:47	0° <b>≈</b>	
direct	7251 Jul 06 15:46	8° <b>M</b> 15'47		evening set	7258 Jan 08 03:16	4° <b>≈</b> 41'27	
	7251 Oct 09 08:10	15°M					
evening set	7251 Oct 20 02:37	16° <b>™</b> 19'09		conjunction minimum elong	7258 Jan 25 07:46 7258 Jan 25 07:48	6°≈47'30 6°≈47'31	1°05'57 1°06'00

max. Earth dist.	7258 Jan 25 04:58	6° <b>≈</b> 46'39	10.61905 AU	conjunction	7264 Apr 06 02:10	18° <b>Ƴ</b> 41'26	-1°18'27
morning rise	7258 Feb 11 08:49	8° <b>≈</b> 52'31		minimum elong	7264 Apr 06 02:08	18° <b>Ƴ</b> 41'25	1°18'29
	7258 Apr 14 23:14	15° <b>≈</b>		max. Earth dist.	7264 Apr 06 04:54	18° <b>Ƴ</b> 42'15	10.88560 AU
retrograde	7258 May 22 17:38	16° <b>≈</b> 13'31		morning rise	7264 Apr 22 19:12	20° <b>Ƴ</b> 41′03	
	7258 Jun 30 09:28	15° <b>R</b> ≈		retrograde	7264 Aug 02 19:00	27° <b>Ƴ</b> 55'04	
opposition	7258 Jul 30 03:48	12° <b>≈</b> 53'38	1°07'11	opposition	7264 Oct 12 02:07	24° <b>Ƴ</b> 35'19	-1°47'33
min. Earth dist.	7258 Jul 30 04:57	12° <b>≈</b> 53′25	8.65480 AU	min. Earth dist.	7264 Oct 11 23:26	24° <b>Ƴ</b> 35'49	8.88569 AU
direct	7258 Oct 08 11:08	9° <b>≈</b> 29'30		direct	7264 Dec 21 02:35	21° <b>Y</b> 16'02	
	7259 Jan 03 03:37	15° <b>≈</b>		evening set	7265 Apr 01 05:53	28° <b>Y</b> 26'36	
evening set	7259 Jan 20 19:33	17° <b>≈</b> 02'48			7265 Apr 14 07:30	$9^{\circ}$ 8	
conjunction	7259 Feb 06 21:46	19° <b>≈</b> 07'21	0°42'17	conjunction	7265 Apr 17 22:06	0° <b>8</b> 26'00	-1°36'10
minimum elong	7259 Feb 06 21:47	19° <b>≈</b> 07'21	0°42'21	minimum elong	7265 Apr 17 22:04	0° <b>8</b> 26'00	1°36'13
max. Earth dist.	7259 Feb 06 20:39	19° <b>≈</b> 07'00	10.68911 AU	max. Earth dist.	7265 Apr 18 00:32	_	10.88005 AU
morning rise	7259 Feb 23 20:44	21° <b>≈</b> 10′57		morning rise	7265 May 04 15:17	2° <b>8</b> 25'43	
retrograde	7259 Jun 04 05:27	28° <b>≈</b> 28'10		retrograde	7265 Aug 15 03:47	9° <b>8</b> 42'22	
opposition	7259 Aug 12 00:41	25° <b>≈</b> 08'48	0°36'49	opposition	7265 Oct 24 14:43	6° <b>8</b> 22'00	
min. Earth dist.	7259 Aug 12 00:51	25° <b>≈</b> 08'46	8.72162 AU	min. Earth dist.	7265 Oct 24 12:18	6° <b>8</b> 22'27	8.87238 AU
direct	7259 Oct 21 11:01	21° <b>≈</b> 45'45		direct	7266 Jan 02 09:13	3° <b>8</b> 02'56	
evening set	7260 Feb 02 05:56	29° <b>≈</b> 13'19		evening set	7266 Apr 13 03:03	10° <b>8</b> 13'12	
	7260 Feb 08 17:46	0° <b>∀</b>					
				conjunction	7266 Apr 29 19:13	12° <b>8</b> 12'49	
conjunction	7260 Feb 19 05:53	1° <b>∺</b> 16'27	0°17'02	minimum elong	7266 Apr 29 19:11	12° <b>8</b> 12'48	
minimum elong	7260 Feb 19 05:54	1° <b>米</b> 16′27	0°17'04	max. Earth dist.	7266 Apr 29 21:34	_	10.85875 AU
max. Earth dist.	7260 Feb 19 05:53		10.75227 AU	morning rise	7266 May 16 13:13	14° <b>8</b> 12'58	
morning rise	7260 Mar 07 03:06	3° <b>)</b> 18′49			7266 May 23 06:34	15° <b>8</b>	
retrograde	7260 Jun 15 15:03	10° <b>)</b> 33′13		retrograde	7266 Aug 27 15:17	21° <b>8</b> 33'06	
opposition	7260 Aug 23 18:54	7° <b>)</b> 14'11	0°05'14	opposition	7266 Nov 06 04:01	18° <b>8</b> 11'55	
min. Earth dist.	7260 Aug 23 18:51	7° <b>)</b> 14′12	8.78025 AU	min. Earth dist.	7266 Nov 06 01:23		8.84390 AU
desc. node	7260 Oct 25 01:03	3° <b>¥</b> 55′29			7267 Jan 02 18:32	15°R <b>8</b>	
direct	7260 Nov 02 06:44	3° <b>¥</b> 52'09		direct	7267 Jan 14 15:22	14° <b>8</b> 52'52	
evening set	7261 Feb 13 11:37	11° <b>升</b> 14'32			7267 Jan 26 10:39	15° <b>8</b>	
i	72(1 M 02 00-19	13° <b>¥</b> 16′25	0000147	evening set	7267 Apr 25 01:58	22° <b>8</b> 03'47	
conjunction	7261 Mar 02 09:18 7261 Mar 02 09:17	13° <del>X</del> 16'25	-0°08'47 0°08'46	aaniumatian	7267 May 11 19:50	24° <b>8</b> 03'59	1950100
minimum elong	7261 Mar 02 09:17 7261 Mar 02 03:11	13° <del>X</del> 16 25	0.08.40	conjunction	7267 May 11 18:59	24° <b>8</b> 03'59	
behind sun begin behind sun end	7261 Mar 02 03:11 7261 Mar 02 15:23	13° <b>X</b> 14'30		minimum elong max. Earth dist.	7267 May 11 18:58 7267 May 11 22:26	•	1 39 04 10.82305 AU
max. Earth dist.	7261 Mar 02 09:24		10.80577 AU	morning rise	7267 May 11 22:20 7267 May 28 14:21	24 803 02 26°804'55	10.82303 AU
morning rise	7261 Mar 19 05:04	15° <b>H</b> 17'43	10.80377 AU	morning rise	7267 Jul 03 17:02	0°II	
retrograde	7261 Jun 27 22:05	22°\(\frac{1}{3}\)0'20		retrograde	7267 Sep 09 05:20	3° <b>∏</b> 29'11	
opposition	7261 Sep 05 10:48	19° <b>H</b> 11'27	-0°26'11	opposition	7267 Nov 18 18:15	0° <b>П</b> 07'05	-2°29'22
min. Earth dist.	7261 Sep 05 10:46		8.82813 AU	min. Earth dist.	7267 Nov 18 14:48		8.80172 AU
direct	7261 Nov 14 21:57	15° <b>X</b> 50'19	0.02013710	mm. Lartii dist.	7267 Nov 20 07:43	30°R8	0.00172710
evening set	7262 Feb 25 13:20	23° <b>)</b> €08'18		direct	7268 Jan 26 22:06	26° <b>8</b> 47'48	
	,	/(			7268 Mar 30 03:52	0°II	
conjunction	7262 Mar 14 09:02	25° <b>)</b> €09'07	-0°33'54	evening set	7268 May 06 03:38	4° <b>Ⅱ</b> 00′20	
minimum elong	7262 Mar 14 09:01	25° <b>)</b> €09'07		<i>3</i>			
max. Earth dist.	7262 Mar 14 09:41	25° <b>∺</b> 09'19	10.84725 AU	conjunction	7268 May 22 22:17	6° <b>Ⅱ</b> 01'31	-2°03'03
morning rise	7262 Mar 31 03:36	27° <b>₩</b> 09'35		minimum elong	7268 May 22 22:17	6° <b>Ⅱ</b> 01'31	2°03'07
	7262 Apr 25 13:28	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	7268 May 23 02:37	6° <b>Ⅱ</b> 02'50	10.77463 AU
retrograde	7262 Jul 10 03:37	4° <b>Υ</b> 21'34		morning rise	7268 Jun 08 19:42	8° <b>Ⅱ</b> 03'34	
opposition	7262 Sep 18 00:59	1° <b>Y</b> 02'33	-0°56'12	retrograde	7268 Sep 21 00:51	15° <b>Ⅱ</b> 32′28	
min. Earth dist.	7262 Sep 17 23:28	1° <b>Y</b> 02'50	8.86298 AU	opposition	7268 Nov 30 10:19	12° <b>Ⅱ</b> 09′23	-2°31'11
	7262 Oct 02 05:00	30° <b>₹</b> ₩		min. Earth dist.	7268 Nov 30 06:18	12° <b>Ⅱ</b> 10′09	8.74771 AU
direct	7262 Nov 27 11:22	27° <b>)</b> 42′12		direct	7269 Feb 07 05:55	8° <b>Ⅱ</b> 49'42	
	7263 Jan 20 08:16	$0^{\circ}\mathbf{\Upsilon}$		evening set	7269 May 18 09:00	16° <b>Ⅱ</b> 04'43	
evening set	7263 Mar 09 12:00	4° <b>Ƴ</b> 56'37					
				conjunction	7269 Jun 04 05:55	18° <b>Ⅱ</b> 07'13	
conjunction	7263 Mar 26 06:10	6° <b>Ƴ</b> 56'39		minimum elong	7269 Jun 04 05:56	18° <b>Ⅱ</b> 07'13	
minimum elong	7263 Mar 26 06:09	6° <b>Y</b> 56'39		max. Earth dist.	7269 Jun 04 10:12		10.71564 AU
max. Earth dist.	7263 Mar 26 08:15		10.87448 AU	morning rise	7269 Jun 21 06:14	20° <b>Ⅱ</b> 10'46	
morning rise	7263 Apr 11 23:45	8° <b>Y</b> 56'32		retrograde	7269 Oct 03 23:32	27° <b>Ⅱ</b> 44'37	
retrograde	7263 Jul 22 11:17	16° <b>Ƴ</b> 09'00		opposition	7269 Dec 13 04:38	24° <b>Ⅱ</b> 20'33	
opposition	7263 Sep 30 13:53	12° <b>Y</b> 49'41		min. Earth dist.	7269 Dec 13 00:54		8.68422 AU
min. Earth dist.	7263 Sep 30 11:17	12° <b>Y</b> 50′10	8.88263 AU	direct	7270 Feb 19 14:35	21° <b>Ⅱ</b> 00'16	
direct	7263 Dec 09 21:05	9° <b>Y</b> 29'58		evening set	7270 May 30 19:13	28° <b>Ⅱ</b> 18'40	
evening set	7264 Mar 20 09:09	16° <b>Ƴ</b> 41'52			7270 Jun 13 16:46	0ං <b>ව</b>	

conjunction	7270 Jun 16 19:10	0°522'48	-1°54'49	opposition	7276 Feb 29 05:14	11° <b>m</b> 27'03	0°05'32
minimum elong	7270 Jun 16 19:12	0°922'48	1°54'55	min. Earth dist.	7276 Feb 29 04:50	11° <b>m</b> 27'08	8.27690 AU
max. Earth dist.	7270 Jun 16 22:42		10.64866 AU	direct	7276 May 06 07:44	8° Mp 01'17	
morning rise	7270 Jul 03 23:06	2°9528'07		evening set	7276 Aug 17 00:48	15° m 51'13	
retrograde	7270 Oct 17 01:00	10°907'03		Č	C		
opposition	7270 Dec 26 01:22	6°9542'03	-2°14'35	conjunction	7276 Sep 03 22:34	18° Mp 06'40	0°18'39
min. Earth dist.	7270 Dec 25 22:24	6°542'37	8.61402 AU	minimum elong	7276 Sep 03 22:33	18° Mp 06'40	0°18'38
direct	7271 Mar 04 03:35	3°521'00		max. Earth dist.	7276 Sep 03 21:56	18° M 06'28	10.25523 AU
evening set	7271 Jun 12 11:01	10°543'33		morning rise	7276 Sep 21 22:23	20° <b>m</b> 22'45	
				retrograde	7277 Jan 05 01:33	28° <b>m</b> 23'50	
conjunction	7271 Jun 29 14:46	12° <b>5</b> 49'37	-1°42'30	opposition	7277 Mar 13 19:12	24° <b>m</b> 56'11	0°40'48
minimum elong	7271 Jun 29 14:48	12° <b>5</b> 49'37	1°42'36	min. Earth dist.	7277 Mar 13 19:41	24° <b>m</b> 56'05	8.23727 AU
max. Earth dist.	7271 Jun 29 18:09	12° <b>©</b> 50'39	10.57647 AU	direct	7277 May 19 23:11	21°M 29'36	
morning rise	7271 Jul 16 22:40	14° <b>©</b> 56'54		evening set	7277 Aug 31 08:24	29° <b>m</b> 24'41	
retrograde	7271 Oct 30 07:38	22° <b>©</b> 40'54			7277 Sep 05 01:13	0∘ <b>⊽</b>	
opposition	7272 Jan 08 00:54	19° <b>©</b> 15'01	-1°56'20				
min. Earth dist.	7272 Jan 07 22:13	19° <b>©</b> 15'32	8.54003 AU	conjunction	7277 Sep 18 07:37	1° <b>≏</b> 41'02	0°46'27
direct	7272 Mar 15 20:44	15° <b>©</b> 53'07		minimum elong	7277 Sep 18 07:36	1° <b>≏</b> 41'01	0°46'28
evening set	7272 Jun 24 09:09	23°520'27		max. Earth dist.	7277 Sep 18 06:25	1° <b>≏</b> 40'39	10.22325 AU
				morning rise	7277 Oct 06 07:52	3° <b>≏</b> 57'44	
conjunction	7272 Jul 11 17:05	25°528'36	-1°25'05	retrograde	7278 Jan 19 00:25	11° <b>≏</b> 59'14	
minimum elong	7272 Jul 11 17:08	25° <b>5</b> 28'37	1°25'10	opposition	7278 Mar 27 11:00	8° <b>£</b> 31'55	1°14'04
max. Earth dist.	7272 Jul 11 20:43	25° <b>©</b> 29'44	10.50214 AU	min. Earth dist.	7278 Mar 27 11:45	8° <b>£</b> 31'45	8.21384 AU
morning rise	7272 Jul 29 04:59	27° <b>5</b> 37'58		direct	7278 Jun 02 18:36	5° <b>≏</b> 04'42	
	7272 Aug 18 10:19	$0^{\circ}\Omega$		evening set	7278 Sep 14 20:07	13° <b>≙</b> 04'01	
retrograde	7272 Nov 11 19:12	5° <b>Ω</b> 26'47					
opposition	7273 Jan 20 03:24	2° <b>Ω</b> 00'08	-1°32'03	conjunction	7278 Oct 02 19:37	15° <b>≙</b> 20'43	1°11'48
min. Earth dist.	7273 Jan 20 00:37	2° <b>Ω</b> 00'41	8.46562 AU	minimum elong	7278 Oct 02 19:34	15° <b>≙</b> 20'42	1°11'50
	7273 Feb 16 07:12	30° <b>₹</b> 🥯		max. Earth dist.	7278 Oct 02 18:06	15° <b>≙</b> 20'14	10.20814 AU
direct	7273 Mar 28 16:31	28° <b>©</b> 37'18		morning rise	7278 Oct 20 18:58	17° <b>≙</b> 37'25	
	7273 May 07 06:47	$0 ^{\circ} \Omega$		retrograde	7279 Feb 01 23:15	25° <b>£</b> 37'59	
evening set	7273 Jul 07 14:21	6° <b>Ω</b> 09'59		opposition	7279 Apr 10 03:53	22° <b>£</b> 11'13	1°43'17
				min. Earth dist.	7279 Apr 10 04:52	22° <b>≏</b> 11'01	8.20799 AU
conjunction	7273 Jul 25 02:32	8° <b>Ω</b> 20'15		direct	7279 Jun 16 15:59	18° <b>≏</b> 43'33	
minimum elong	7273 Jul 25 02:34	8° <b>Ω</b> 20'15		evening set	7279 Sep 29 09:39	26° <b>≏</b> 45'49	
max. Earth dist.	7273 Jul 25 05:57		10.42921 AU				
morning rise	7273 Aug 11 18:22	10° <b>Ω</b> 31'41		conjunction	7279 Oct 17 08:19	29° <b>≏</b> 02'18	1°33'09
	7273 Sep 20 23:12	15° <b>Ω</b>		minimum elong	7279 Oct 17 08:17	29° <b>Ω</b> 02'18	1°33'12
retrograde	7273 Nov 25 10:31	18° <b>Ω</b> 24'49		max. Earth dist.	7279 Oct 17 06:22		10.21093 AU
	7274 Feb 01 20:51	15°R <b>Ω</b>			7279 Oct 24 21:12	0°M	
opposition	7274 Feb 02 09:01	14° <b>Ω</b> 57'35		morning rise	7279 Nov 04 05:45	1°M18'28	
min. Earth dist.	7274 Feb 02 06:27		8.39451 AU	retrograde	7280 Feb 15 21:59	9°M16'45	
direct	7274 Apr 10 17:01	11° <b>Ω</b> 33'45		opposition	7280 Apr 22 21:17	5°M50'43	2°06'38
	7274 Jun 13 19:39	15° <b>Ω</b>		min. Earth dist.	7280 Apr 22 22:44	5°M50'25	8.22009 AU
evening set	7274 Jul 21 02:51	19° <b>Ω</b> 12'09		direct	7280 Jun 29 14:53	2°M22'45	
	7074 4 07 10 56	210 02 425	0005145	evening set	7280 Oct 12 22:37	10°M26'24	
conjunction	7274 Aug 07 18:56	21° <b>Ω</b> 24'27			7200 0 + 20 10 26	120 <b>m</b> 42110	1040112
minimum elong	7274 Aug 07 18:58	21° <b>Ω</b> 24'27		conjunction	7280 Oct 30 19:36	12°M42'10	
max. Earth dist.	7274 Aug 07 21:06		10.36138 AU	minimum elong	7280 Oct 30 19:33		1°49'17
morning rise	7274 Aug 25 14:21	23° <b>Ω</b> 37'48		max. Earth dist.	7280 Oct 30 16:57		10.23141 AU
	7274 Oct 27 01:26	0°M)		morning rise	7280 Nov 17 14:27	14°M57'20	
retrograde	7274 Dec 09 05:15	1° M) 34'32			7280 Nov 17 23:00	15°M	
	7275 Jan 21 20:33	30°R <b>Ω</b>	0920127	retrograde	7281 Feb 28 16:38	22°M52'02	2022147
opposition	7275 Feb 15 17:44	28° <b>Ω</b> 06'55		opposition	7281 May 06 14:10	19°M26'51	
min. Earth dist.	7275 Feb 15 16:09		8.33040 AU	min. Earth dist.	7281 May 06 16:34	19°M26'22	8.24918 AU
direct	7275 Apr 23 22:06 7275 Jul 14 10:54	24° <b>Ω</b> 42'06 0° <b>m</b>		direct evening set	7281 Jul 13 16:08 7281 Oct 27 09:08	15°M58'48 24°M02'07	
avanina aat		2°M) 26'20		evening set	7281 Oct 27 09.08	24 11602 07	
evening set	7275 Aug 03 22:34	∠ ایپا∠0∠0		conjunction	7281 Nov 14 03:46	26°M16'45	1°59'06
conjunction	7275 Aug 21 17:53	4° m/40'24	-0°10'01	minimum elong	7281 Nov 14 03:45	26°M16'45	1°59'10
minimum elong	7275 Aug 21 17:54	4° m) 40'25		max. Earth dist.	7281 Nov 14 03.43 7281 Nov 13 23:51		1 39 10 10.26802 AU
behind sun begin	7275 Aug 21 17:34 7275 Aug 21 12:05	4° m) 38'36	0 1005	morning rise	7281 Nov 13 23.31 7281 Dec 01 19:40	28°M30'35	10.20002 AU
behind sun end	7275 Aug 21 12:03 7275 Aug 21 23:43	4° Mp 42'14		morning 1130	7281 Dec 01 19:40 7281 Dec 14 00:42	26 II <b>c</b> 30 33	
max. Earth dist.	7275 Aug 21 23:43 7275 Aug 21 18:31		10.30223 AU	retrograde	7281 Dec 14 00:42 7282 Mar 14 06:34	6° <b>₹</b> 120'36	
morning rise	7275 Sep 08 16:03	6° Mp 55'21	. 0.50225 AU	opposition	7282 May 20 05:30	2° <b>×</b> 756'21	2°30'52
retrograde	7275 Dec 23 03:03	14° Mp 54'47		min. Earth dist.	7282 May 20 03:50 7282 May 20 08:57	2° <b>x</b> 55'39	8.29299 AU
asc. node	7276 Jan 01 08:45	14° Mp 50'12		mm. Durin dist.	7282 Jul 03 02:58	30°RM	5.27277 AU
350. 11000	. = , = ; aii 01 00.43	1. 11/2/01/2			,202041 05 02.50	SO ITHO	

direct	7282 Jul 27 17:19	29° <b>M</b> 28'24		evening set	7289 Jan 27 06:06	24° <b>≈</b> 12'11	
	7282 Aug 21 06:13	0° <b>∡</b> ¹					
evening set	7282 Nov 10 15:00	7° <b>∡</b> ¹29'45		conjunction	7289 Feb 13 07:04	26° <b>≈</b> 16′08	0°28'00
				minimum elong	7289 Feb 13 07:05	26° <b>≈</b> 16′08	0°28'03
conjunction	7282 Nov 28 06:59	9° <b>∡</b> ¹42'59	2°02'23	max. Earth dist.	7289 Feb 13 04:20	26° <b>≈</b> 15′18	10.70993 AU
minimum elong	7282 Nov 28 06:59	9° <b>∡</b> ¹42'58	2°02'27	morning rise	7289 Mar 02 05:19	28° <b>≈</b> 19′16	
max. Earth dist.	7282 Nov 28 01:52		10.31788 AU		7289 Mar 16 15:14	0° <b>∀</b>	
morning rise	7282 Dec 15 19:47	11° <b>₹</b> 55'13		retrograde	7289 Jun 10 14:57	5° <b>)</b> 35'38	
retrograde	7283 Mar 27 16:22	19° <b>∡</b> ³39'55		opposition	7289 Aug 18 15:17	2° <b>∺</b> 16'12	
opposition	7283 Jun 02 18:49	16° <b>⊀</b> 16'37	2°30'41	min. Earth dist.	7289 Aug 18 16:18	2° <b>∺</b> 16′00	8.73800 AU
min. Earth dist.	7283 Jun 02 22:43	16° <b>≯</b> 15'50	8.34798 AU		7289 Sep 20 12:07	30° <b>R</b> ≈	
direct	7283 Aug 10 16:25	12° <b>∡</b> ⁴49'00		direct	7289 Oct 28 03:43	28° <b>≈</b> 53'19	
evening set	7283 Nov 24 14:36	20° <b>∡</b> ¹46'58			7289 Dec 04 01:24	0° <b>∺</b>	
		<b>-</b>		evening set	7290 Feb 08 14:17	6° <b>)</b> 18′52	
conjunction	7283 Dec 12 03:55	22° <b>∡</b> 58'40	1°59'04			>/	
minimum elong	7283 Dec 12 03:56	22° <b>∡</b> 58'40	1°59'08	conjunction	7290 Feb 25 13:07	8° <b>∺</b> 21'32	
max. Earth dist.	7283 Dec 11 22:23		10.37711 AU	minimum elong	7290 Feb 25 13:07	8° <b>∺</b> 21'32	0°02'21
morning rise	7283 Dec 29 13:42	25° <b>∡</b> 109'16		behind sun begin	7290 Feb 25 06:05	8° <b>₩</b> 19'25	
	7284 Feb 11 12:57	0° <b>ろ</b>		behind sun end	7290 Feb 25 20:09	8° <b>∺</b> 23'39	
retrograde	7284 Apr 08 22:27	2°る48'25		max. Earth dist.	7290 Feb 25 12:25		10.76403 AU
	7284 Jun 08 01:06	30°Ŗ <b>⋌</b> ¹		morning rise	7290 Mar 14 09:38	10° <b>∺</b> 23'32	
opposition	7284 Jun 15 05:32	29° <b>∡</b> ¹26′04	2°22'31	desc. node	7290 Mar 30 13:06	12° <b>米</b> 15′19	
min. Earth dist.	7284 Jun 15 09:20	29° <b>∡</b> ¹25'19 −	8.41035 AU	retrograde	7290 Jun 23 00:34	17° <b>)</b> € 37'43	
direct	7284 Aug 23 12:23	25° <b>∡</b> 59'02		opposition	7290 Aug 31 08:47	14° <b>米</b> 18'19	
	7284 Nov 03 04:57	0° <b>ठ</b>		min. Earth dist.	7290 Aug 31 08:23		8.78727 AU
evening set	7284 Dec 07 07:35	3° <b>る</b> 52'37		direct	7290 Nov 09 21:02	10° <b>¥</b> 56′18	
		_		evening set	7291 Feb 20 18:06	18° <b>) 17</b> ′04	
conjunction	7284 Dec 24 18:22	6° <b>る</b> 02'44	1°49'35				
minimum elong	7284 Dec 24 18:23	6° <b>る</b> 02'44	1°49'40	conjunction	7291 Mar 09 14:56	20° <b>)</b> 18'37	
max. Earth dist.	7284 Dec 24 13:13		10.44234 AU	minimum elong	7291 Mar 09 14:55	20° <b>)</b> 18′37	
morning rise	7285 Jan 11 01:16	8° <b>る</b> 11'41		max. Earth dist.	7291 Mar 09 15:44		10.80793 AU
retrograde	7285 Apr 22 00:00	15° <b>る</b> 45'21		morning rise	7291 Mar 26 09:59	22° <b>)</b> 19'42	
opposition	7285 Jun 28 13:21	12° <b>る</b> 23'53	2°07'10	retrograde	7291 Jul 05 07:24	29° <b>)</b> 32'46	
min. Earth dist.	7285 Jun 28 16:45	12° <b>る</b> 23'13	8.47728 AU	opposition	7291 Sep 13 00:12	26° <b>米</b> 13'15	
direct	7285 Sep 06 04:50	8° <b>云</b> 57'35		min. Earth dist.	7291 Sep 12 23:04	26° <b>∺</b> 13′28	8.82562 AU
evening set	7285 Dec 20 17:34	16° <b>පි</b> 46'00		direct	7291 Nov 22 10:57	22° <b>∺</b> 51'59	
		_			7292 Mar 02 12:28	0°Υ	
conjunction	7286 Jan 07 01:51	18° <b>ろ</b> 54'30	1°34'41	evening set	7292 Mar 03 18:32	0° <b>Y</b> 08'51	
minimum elong	7286 Jan 07 01:53	18° <b>る</b> 54'31	1°34'46				
max. Earth dist.	7286 Jan 06 21:35		10.51103 AU	conjunction	7292 Mar 20 13:29	2°Υ09'30	
morning rise	7286 Jan 24 06:05	21° <b>る</b> 01'52		minimum elong	7292 Mar 20 13:28	2° <b>Y</b> 09'29	0°47'43
retrograde	7286 May 04 22:04	28° <b>る</b> 30'17		max. Earth dist.	7292 Mar 20 14:45		10.83993 AU
opposition	7286 Jul 11 18:28	25° <b>පි</b> 09'36	1°45'45	morning rise	7292 Apr 06 07:35	4° <b>Y</b> 09'54	
min. Earth dist.	7286 Jul 11 21:46	25°る08'57	8.54637 AU	retrograde	7292 Jul 16 14:18	11°Υ22'56	101010
direct	7286 Sep 19 16:46	21°る44'07		opposition	7292 Sep 24 14:07	8° <b>Y</b> 03'12	
evening set	7287 Jan 02 20:21	29° <b>る</b> 26'47		min. Earth dist.	7292 Sep 24 12:39	8° <b>Υ</b> 03'28	8.85141 AU
	7287 Jan 07 09:36	0° <b>≈</b>		direct	7292 Dec 03 22:05	4°Υ42'35	
	7207 1 20 02 04	1022142	1015122	evening set	7293 Mar 15 16:43	11° <b>Y</b> 56′29	
conjunction	7287 Jan 20 02:04	1°≈33'43			7202 4 01 10 00	1200056120	1000156
minimum elong	7287 Jan 20 02:06	1°≈33'44	1°15'27	conjunction	7293 Apr 01 10:09	13° <b>Y</b> 56′28	
max. Earth dist.	7287 Jan 19 22:13		10.58051 AU	minimum elong	7293 Apr 01 10:07	13° <b>Y</b> 56′28	
morning rise	7287 Feb 06 04:01	3°≈39'33		max. Earth dist.	7293 Apr 01 11:56		10.85869 AU
retrograde	7287 May 17 16:02	11°≈03'12	1010125	morning rise	7293 Apr 18 03:37	15° <b>Y</b> 56′28	
opposition	7287 Jul 24 20:31	7°≈43'08	1°19'35	retrograde	7293 Jul 28 20:37	23°Υ10'33	1020102
min. Earth dist.	7287 Jul 24 23:41	7°≈42'31	8.61484 AU	opposition	7293 Oct 07 03:05	19° <b>Y</b> 50′25	
direct	7287 Oct 02 23:44	4°≈18'31		min. Earth dist.	7293 Oct 07 00:33	19° <b>Y</b> 50'53	8.86353 AU
evening set	7288 Jan 15 16:22	11° <b>≈</b> 55'15		direct	7293 Dec 16 06:26	16° <b>Y</b> 30′22	
	7200 E 1 01 10 2 1	1.40 0.010.0	0052145	evening set	7294 Mar 27 13:43	23° <b>Y</b> 42′17	
conjunction	7288 Feb 01 19:36	14°≈00'39	0°52'45		7004 4 10 00 10	250024455	1020111
minimum elong	7288 Feb 01 19:38	14°≈00'39	0°52'49	conjunction	7294 Apr 13 06:18	25° <b>Y</b> 41'56	
max. Earth dist.	7288 Feb 01 16:02		10.64783 AU	minimum elong	7294 Apr 13 06:16	25° <b>Y</b> 41'55	
	7288 Feb 09 21:11	15° <b>≈</b>		max. Earth dist.	7294 Apr 13 09:40		10.86344 AU
morning rise	7288 Feb 18 19:38	16°≈05'04		morning rise	7294 Apr 29 23:30	27° <b>Y</b> 41'48	
retrograde	7288 May 29 03:58	23°≈24'37	00.50100		7294 May 20 07:51	0° <b>8</b>	
opposition	7288 Aug 05 19:18	20°≈04'58	0°50'08	retrograde	7294 Aug 10 05:22	4° <b>8</b> 57'56	
min. Earth dist.	7288 Aug 05 21:52	20°≈04'29	8.67971 AU	opposition	7294 Oct 19 15:45	1° <b>8</b> 37'17	
direct	7288 Oct 15 04:07	16° <b>≈</b> 41'13		min. Earth dist.	7294 Oct 19 11:49	1° <b>8</b> 38'01	8.86146 AU

7312 Nov 18 13:55

evening set

14°**х** 57′32

7318 Oct 23 10:43

23°≈28'09

direct

	7319 Jan 27 07:22	0° <b>₩</b>		opposition	7324 Oct 26 16:48	8° <b>8</b> 09'28	2008/42
ovening set	7319 Feb 04 05:18	0° <b>₩</b> 55'48		min. Earth dist.	7324 Oct 26 16:48 7324 Oct 26 14:17	8° <b>8</b> 09'56	
evening set	/319 Feb 04 03.18	U X3348		direct	7324 Oct 26 14.17 7325 Jan 04 10:24	4° <b>8</b> 50'25	6.60003 AU
agniumation	7210 Eab 21 05:04	2° <b>¥</b> 58'58	0°14'23	evening set		12° <b>8</b> 01'02	
conjunction	7319 Feb 21 05:04			evening set	7325 Apr 15 04:24	12 001 02	
minimum elong	7319 Feb 21 05:04	2°\(\)58'58	0°14'26		7225 ) 6 01 20 41	140 400145	1051101
behind sun begin	7319 Feb 21 01:47	2° <b>)</b> 57′58		conjunction	7325 May 01 20:41	14° <b>8</b> 00'45	
behind sun end	7319 Feb 21 08:22	2° <b>¥</b> 59'57		minimum elong	7325 May 01 20:39	14° <b>8</b> 00'45	
max. Earth dist.	7319 Feb 21 04:09		10.74810 AU	max. Earth dist.	7325 May 01 23:52	_	10.85317 AU
morning rise	7319 Mar 10 02:21	5° <b>₩</b> 01'23			7325 May 10 01:36	15° <b>8</b>	
retrograde	7319 Jun 18 14:40	12° <b>¥</b> 16′06		morning rise	7325 May 18 14:42	16° <b>8</b> 01'00	
opposition	7319 Aug 26 19:13	8° <b>¥</b> 56'58	0°01'58	retrograde	7325 Aug 29 17:23	23° <b>8</b> 21'42	
min. Earth dist.	7319 Aug 26 19:38	8° <b>¥</b> 56'54	8.77539 AU	opposition	7325 Nov 08 06:24	20° <b>8</b> 00'29	
desc. node	7319 Sep 19 04:48	7° <b>∺</b> 15'48		min. Earth dist.	7325 Nov 08 02:54	20° <b>8</b> 01'09	8.83856 AU
direct	7319 Nov 05 06:18	5° <b>)</b> 34′52		direct	7326 Jan 16 17:31	16° <b>8</b> 41'28	
evening set	7320 Feb 16 11:06	12° <b>∺</b> 57′28		evening set	7326 Apr 27 03:46	23° <b>8</b> 52'46	
conjunction	7320 Mar 04 08:42	14° <b>¥</b> 59′24	-0°11'26	conjunction	7326 May 13 20:57	25° <b>8</b> 53'05	-1°59'35
minimum elong	7320 Mar 04 08:42	14° <b>∺</b> 59'24	0°11'24	minimum elong	7326 May 13 20:56	25° <b>8</b> 53'05	1°59'39
behind sun begin	7320 Mar 04 03:32	14° <b>∺</b> 57'51		max. Earth dist.	7326 May 14 01:18	25° <b>8</b> 54'24	10.81788 AU
behind sun end	7320 Mar 04 13:51	15° <b>₩</b> 00'57		morning rise	7326 May 30 16:20	27° <b>8</b> 54'07	
max. Earth dist.	7320 Mar 04 08:30	14° <b>¥</b> 59′21	10.80028 AU		7326 Jun 18 00:51	$\Pi^{\circ}0$	
morning rise	7320 Mar 21 04:32	17° <b>)</b> € 00'48		retrograde	7326 Sep 11 09:52	5° <b>Ⅱ</b> 18'56	
retrograde	7320 Jun 29 21:27	24° <b>₩</b> 13'52		opposition	7326 Nov 20 21:05	1° <b>Ⅱ</b> 56'49	-2°29'44
opposition	7320 Sep 07 11:18	20° <b>¥</b> 54'51	-0°29'24	min. Earth dist.	7326 Nov 20 16:57	1° <b>Ⅱ</b> 57'36	8.79684 AU
min. Earth dist.	7320 Sep 07 10:28	20° <b>¥</b> 55′01	8.82209 AU		7326 Dec 18 09:26	30°R <b>႘</b>	
direct	7320 Nov 16 23:13	17° <b>)</b> 33'41		direct	7327 Jan 29 00:21	28° <b>8</b> 37'35	
evening set	7321 Feb 27 13:05	24° <b>)</b> ₹51'58			7327 Mar 10 11:08	0°II	
evening sec	7321100 27 13.00	2. 76100		evening set	7327 May 09 05:54	5° <b>II</b> 50'27	
conjunction	7321 Mar 16 08:50	26° <b>¥</b> 52'53	-0°36'26	evening sec	7527 May 05 00.0 .	0 2002,	
minimum elong	7321 Mar 16 08:49	26° <b>¥</b> 52'52		conjunction	7327 May 26 00:39	7° <b>Ⅱ</b> 51'45	-2°03'02
max. Earth dist.	7321 Mar 16 10:12		10.84074 AU	minimum elong	7327 May 26 00:39	7° <b>I</b> I51'45	
morning rise	7321 Apr 02 03:20	28°\(\frac{1}{53}\)'26	10.04074 AC	max. Earth dist.	7327 May 26 00:59		10.77004 AU
morning rise	7321 Apr 02 03:20 7321 Apr 11 16:30	28 <b>γ</b> 33 20		morning rise	7327 Jun 11 22:19	9° <b>П</b> 53'57	10.77004 AU
ratra ara da	7321 Apr 11 10:30 7321 Jul 12 05:44	6° <b>Y</b> 05'57		•	7327 Sep 24 04:58	9 <b>∏</b> 3337	
retrograde		2° <b>Υ</b> 46'51	0950114	retrograde	•	17 <b>II</b> 23 16 14° <b>II</b> 00'13	2020140
opposition	7321 Sep 20 01:50			opposition	7327 Dec 03 13:30		
min. Earth dist.	7321 Sep 19 23:36	2° <b>Y</b> 47'16	8.85616 AU	min. Earth dist.	7327 Dec 03 09:35		8.74347 AU
	7321 Nov 03 02:11	30° <b>₹</b> ₩		direct	7328 Feb 10 06:39	10° <b>Ⅱ</b> 40'33	
direct	7321 Nov 29 11:46	29° <b>¥</b> 26′30		evening set	7328 May 20 11:48	17° <b>Ⅱ</b> 55'55	
	7321 Dec 25 11:58	0° <b>Υ</b>				🗕	
evening set	7322 Mar 11 12:11	6° <b>Ƴ</b> 41'16		conjunction	7328 Jun 06 08:51	19° <b>∏</b> 58'31	
				minimum elong	7328 Jun 06 08:52	19° <b>∏</b> 58'31	
conjunction	7322 Mar 28 06:20	8° <b>Y</b> 41′24		max. Earth dist.	7328 Jun 06 12:38		10.71181 AU
minimum elong	7322 Mar 28 06:19	8° <b>Υ</b> 41'23		morning rise	7328 Jun 23 09:30	22° <b>Ⅱ</b> 02'11	
max. Earth dist.	7322 Mar 28 09:07		10.86751 AU	retrograde	7328 Oct 06 02:05	29° <b>Ⅱ</b> 36′22	
morning rise	7322 Apr 13 23:50	10° <b>Ƴ</b> 41′23		opposition	7328 Dec 15 07:59	26° <b>Ⅱ</b> 12'20	-2°25'08
retrograde	7322 Jul 24 12:53	17° <b>Ƴ</b> 54'25		min. Earth dist.	7328 Dec 15 04:39	26° <b>Ⅱ</b> 12'59	8.68081 AU
opposition	7322 Oct 02 15:15	14° <b>Ƴ</b> 35′02		direct	7329 Feb 21 18:03	22° <b>II</b> 52'03	
min. Earth dist.	7322 Oct 02 12:30		8.87575 AU		7329 May 31 10:27	$0_{\circ}$ වෙ	
direct	7322 Dec 11 20:28	11° <b>Ƴ</b> 15'19		evening set	7329 Jun 01 22:19	0°9510'44	
evening set	7323 Mar 23 09:47	18° <b>Ƴ</b> 27'36					
				conjunction	7329 Jun 18 22:34	2° <b>©</b> 14'59	-1°53'35
conjunction	7323 Apr 09 02:40	20° <b>Ƴ</b> 27'14	-1°20'29	minimum elong	7329 Jun 18 22:36	2°515'00	1°53'41
minimum elong	7323 Apr 09 02:37	20° <b>Ƴ</b> 27'13	1°20'31	max. Earth dist.	7329 Jun 19 02:27	2°516'11	10.64578 AU
max. Earth dist.	7323 Apr 09 05:17	20° <b>Y</b> 28′01	10.87894 AU	morning rise	7329 Jul 06 02:46	4°\$20'24	
morning rise	7323 Apr 25 19:47	22° <b>Y</b> 26'58		retrograde	7329 Oct 19 04:42	11° <b>©</b> 59'36	
retrograde	7323 Aug 05 20:35	29° <b>Ƴ</b> 41'34		opposition	7329 Dec 28 04:53	8°934'36	-2°12'42
opposition	7323 Oct 15 03:57	26° <b>Y</b> 21'44	-1°49'50	min. Earth dist.	7329 Dec 28 01:38		8.61165 AU
min. Earth dist.	7323 Oct 15 01:33	26° <b>Ƴ</b> 22'11	8.87940 AU	direct	7330 Mar 06 07:39	5°913'34	
direct	7323 Dec 24 04:05	23° <b>Y</b> '02'26		evening set	7330 Jun 14 14:21	12°936'16	
	7324 Apr 01 09:14	0°8				_ 50 10	
evening set	7324 Apr 03 06:50	0° <b>8</b> 13'22		conjunction	7330 Jul 01 18:30	14°9542'26	-1°40'43
2	pr 05 00.50	, 01522		minimum elong	7330 Jul 01 18:32	14°942'27	
conjunction	7324 Apr 19 23:01	2° <b>8</b> 12'52	-1°37'48	max. Earth dist.	7330 Jul 01 18:32 7330 Jul 01 22:54		10.57470 AU
minimum elong	7324 Apr 19 22:59	2° <b>8</b> 12'51		morning rise	7330 Jul 19 02:35	14 5 43 47 16° 5 49' 49	10.5/7/0 AU
max. Earth dist.	7324 Apr 19 22.39 7324 Apr 20 01:21		1 37 31 10.87403 AU	-	7330 Nov 01 12:21	16 \$34949 24°\$33'55	
	-	4° <b>8</b> 12'41	10.07403 AU	retrograde			1052147
morning rise	7324 May 06 16:21	11° <b>8</b> 29'53		opposition	7331 Jan 10 04:26	21°508'02	
retrograde	7324 Aug 17 05:46	11 02933		min. Earth dist.	7331 Jan 10 00:58	43 00 د 2 د 2 د 2	8.53884 AU

direct	7331 Mar 18 23:27	17° <b>©</b> 46'08		minimum elong	7336 Sep 20 10:56	3° <b>£</b> 31'16	0°49'05
evening set	7331 Jun 27 12:54	25° <b>©</b> 13'34		max. Earth dist.	7336 Sep 20 10:30		10.22792 AU
evening set	7551 Juli 27 12.54	23 31334		morning rise	7336 Oct 08 10:58	5° <b>-</b> 47'49	10.22772710
conjunction	7331 Jul 14 21:10	27° <b>5</b> 21'48	-1°22'48	retrograde	7337 Jan 21 02:27	13° <b>≏</b> 48'45	
minimum elong	7331 Jul 14 21:13	27° <b>5</b> 21'48	1°22'53	opposition	7337 Mar 29 12:54	10° <b>⊆</b> 21'24	1°17'05
max. Earth dist.	7331 Jul 15 01:21		10.50160 AU	min. Earth dist.	7337 Mar 29 13:15	10° <b>£</b> 21′20	8.21872 AU
morning rise	7331 Aug 01 09:17	29° <b>9</b> 31'14	10.00100110	direct	7337 Jun 04 20:26	6° <b>£</b> 54'08	0.210/2110
morning 115¢	7331 Aug 05 08:36	0°Ω		evening set	7337 Sep 16 22:59	14° <b>£</b> 53'05	
retrograde	7331 Nov 14 23:03	7° <b>Ω</b> 19'58		- · · · · · · · · · · · · · · · · · · ·	,		
opposition	7332 Jan 23 06:49	3°€53'20	-1°28'59	conjunction	7337 Oct 04 22:24	17° <b>ჲ</b> 09'40	1°14'01
min. Earth dist.	7332 Jan 23 03:34		8.46571 AU	minimum elong	7337 Oct 04 22:21	17° <b>≙</b> 09'39	1°14'03
direct	7332 Mar 30 19:59	0° <b>£</b> 30′28		max. Earth dist.	7337 Oct 04 21:01		10.21310 AU
evening set	7332 Jul 09 18:20	8°Ω03'10		morning rise	7337 Oct 22 21:30	19° <b>£</b> 26'13	10.21010110
	7.00-040-07-07-07-0			retrograde	7338 Feb 04 01:57	27° <b>£</b> 26'12	
conjunction	7332 Jul 27 06:41	10° <b>Ω</b> 13'29	-1°00'32	opposition	7338 Apr 12 05:23	23° <b>♀</b> 59'25	1°45'43
minimum elong	7332 Jul 27 06:43	10°Ω13'30		min. Earth dist.	7338 Apr 12 06:36	23° <b>£</b> 59'11	8.21301 AU
max. Earth dist.	7332 Jul 27 09:44		10.42999 AU	direct	7338 Jun 18 17:04	20° <b>£</b> 31'41	0.21301110
morning rise	7332 Aug 13 22:47	12° <b>Ω</b> 24'58	10.12///110	evening set	7338 Oct 01 12:05	28° <b>£</b> 33'38	
morning rise	7332 Sep 04 23:27	12° <b>Ω</b> 2436		evening set	7338 Oct 12 21:44	0° <b>™</b>	
retrograde	7332 Sep 04 23:27 7332 Nov 27 14:30	20° <b>Ω</b> 17'51			7556 OCC 12 21.44	O IIG	
opposition	7332 Feb 04 12:22	16°Ω50'38	0°50'15	conjunction	7338 Oct 19 10:33	0° <b>M</b> 49'58	102451
min. Earth dist.			8.39591 AU	•			1°34'55
min. Earth dist.	7333 Feb 04 10:04		8.39391 AU	minimum elong	7338 Oct 19 10:30	0°M49'57	
T' (	7333 Feb 28 23:52	15°R <b>Ω</b>		max. Earth dist.	7338 Oct 19 07:57	0°M49'08	10.21589 AU
direct	7333 Apr 12 20:08	13° <b>Ω</b> 26'46		morning rise	7338 Nov 06 07:48	3°M06'00	
	7333 May 24 21:06	15° <b>Ω</b>		retrograde	7339 Feb 17 22:58	11°M03'42	2000122
evening set	7333 Jul 23 06:49	21° <b>Ω</b> 05'04		opposition	7339 Apr 25 22:24	7°M37'42	2°08'23
		0		min. Earth dist.	7339 Apr 26 00:39	7°M37'15	8.22499 AU
conjunction	7333 Aug 09 22:59	23° <b>Ω</b> 17'22		direct	7339 Jul 02 17:10	4°M09'42	
minimum elong	7333 Aug 09 23:01	23° <b>Ω</b> 17′22		evening set	7339 Oct 16 00:34	12°M13'04	
max. Earth dist.	7333 Aug 10 00:28		10.36347 AU				
morning rise	7333 Aug 27 18:39	25° <b>Ω</b> 30'44		conjunction	7339 Nov 02 21:14	14°M28'40	1°50'19
	7333 Oct 06 20:18	0° mp		minimum elong	7339 Nov 02 21:12	14°M28'40	1°50'24
retrograde	7333 Dec 11 09:10	3° <b>m</b> ,27′05		max. Earth dist.	7339 Nov 02 17:30	14°M27'29	10.23616 AU
opposition	7334 Feb 17 20:54	29° <b>Ω</b> 59'29	-0°25'58		7339 Nov 06 23:36	15° <b>M</b> ₊	
	7334 Feb 17 18:22	$30^{\circ}$ R $\Omega$		morning rise	7339 Nov 20 15:56	16° <b>™</b> 43'42	
min. Earth dist.	7334 Feb 17 19:53	29° <b>Ω</b> 59'42	8.33309 AU	retrograde	7340 Mar 02 16:21	24°M37'55	
direct	7334 Apr 26 01:03	26° <b>Ω</b> 34'36		opposition	7340 May 08 14:58	21°M12'48	2°23'45
	7334 Jun 28 22:50	0° <b>m</b>		min. Earth dist.	7340 May 08 18:03	21°M12'11	8.25386 AU
evening set	7334 Aug 06 02:27	4° <b>m</b> ) 18'41		direct	7340 Jul 15 18:09	17° <b>M</b> 44'45	
				evening set	7340 Oct 29 10:31	25°M47'48	
conjunction	7334 Aug 23 21:55	6° Mp 32′42	-0°07'04				
minimum elong	7334 Aug 23 21:56	6° Mp 32′42	0°07'06	conjunction	7340 Nov 16 04:54	28°M02'18	1°59'34
behind sun begin	7334 Aug 23 15:14	6° M 30′37		minimum elong	7340 Nov 16 04:52	28°M02'18	1°59'39
behind sun end	7334 Aug 24 04:38	6° M 34'48		max. Earth dist.	7340 Nov 16 00:14	28°M00'50	10.27260 AU
max. Earth dist.	7334 Aug 23 22:17	-	10.30551 AU		7340 Dec 01 17:22	0° <b>⊼</b> ¹	
morning rise	7334 Sep 10 20:13	8° m 47'37		morning rise	7340 Dec 03 20:41	0° <b>≯</b> 16′00	
asc. node	7334 Nov 25 07:49	15° <b>m</b> 59'37		retrograde	7341 Mar 16 06:26	8° <b>∡</b> 105'38	
retrograde	7334 Dec 25 05:05	16° Mp 46'33		opposition	7341 May 22 05:59	4° <b>∡</b> ³41'27	2°31'03
opposition	7335 Mar 03 07:58	13° <b>m</b> ) 18'49	0°09'11	min. Earth dist.	7341 May 22 09:24	4° <b>∡</b> °40'46	8.29757 AU
min. Earth dist.	7335 Mar 03 07:47	13° <b>m</b> ) 18'51	8.28067 AU	direct	7341 Jul 29 18:33	1° <b>∡</b> 13'33	
direct	7335 May 09 12:16	9° m 52'58		evening set	7341 Nov 12 15:53	9° <b>҂</b> 14'37	
evening set	7335 Aug 20 04:30	17° <b>m</b> ) 42'41		- · · · · · · · · · · · · · · · · · · ·	, , , , , , , , , , , , , , , , , , , ,		
evening sec	7550 11 <b>48 2</b> 0 0 1.50	17 14 12 11		conjunction	7341 Nov 30 07:45	11° <b>∡</b> °27'45	2°02'13
conjunction	7335 Sep 07 02:24	19° <b>m</b> 58'03	0°21'31	minimum elong	7341 Nov 30 07:45		2°02'18
minimum elong	7335 Sep 07 02:24 7335 Sep 07 02:23	19° <b>m</b> 58'03	0°21'31	max. Earth dist.	7341 Nov 30 07:43		10.32255 AU
max. Earth dist.	7335 Sep 07 02:23 7335 Sep 07 02:07		10.25938 AU	morning rise	7341 Dec 17 20:25	13° 🗷 39'53	10.32233 AO
morning rise	7335 Sep 07 02:07 7335 Sep 25 02:09	22° Mp 14'02	10.23730 AU	retrograde	7342 Mar 29 16:25	21° <b>×</b> <sup>2</sup> 24'12	
morning 1150	7335 Sep 23 02.09 7335 Dec 22 17:30	22 اللَّ 14 02 0° <b>ي</b>		opposition	7342 Mai 29 16.23 7342 Jun 04 19:01	21 <b>x</b> ·24 12 18° <b>x</b> 00'58	2°30'05
retrogrado	7336 Jan 08 02:44	0° <b>≗</b> 14'34		min. Earth dist.	7342 Jun 04 19:01 7342 Jun 04 22:20	18° <b>×</b> ′00′38	8.35279 AU
retrograde							0.33219 AU
ammagiti	7336 Jan 24 14:16	30°RM)	0044!12	direct	7342 Aug 12 17:22	14° 🖈 33'26	
opposition	7336 Mar 15 21:32	26° m 46'54		evening set	7342 Nov 26 15:05	22° <b>≯</b> 31'03	
min. Earth dist.	7336 Mar 15 21:39	26° Mp 46'53	8.24175 AU		72.42 D 14.04.01	240 74222	1050110
direct	7336 May 22 02:56	23° m/20'17		conjunction	7342 Dec 14 04:21	24° 🖈 42'38	1°58'18
	7336 Aug 23 06:58	0∘ <b>⊽</b>		minimum elong	7342 Dec 14 04:22	24° 🖈 42'38	1°58'23
evening set	7336 Sep 02 11:43	1° <b>≙</b> 15'01		max. Earth dist.	7342 Dec 13 23:36		10.38214 AU
	<b>#22</b> ( G	00.00	00.4010	morning rise	7342 Dec 31 13:53	26° <b>₹</b> 53'07	
conjunction	7336 Sep 20 10:58	3° <b>≏</b> 31'16	0~49′04		7343 Jan 27 06:16	0°ප	

. 1	72.42 4 11 21 52	40 <b>3</b> 21152		1 1 1 1 1	7240 F 1 27 10 14	100 100 112	
retrograde	7343 Apr 11 21:53	4°₹31'53	2021112	behind sun end	7349 Feb 27 19:14	10°\(\)06'13	10.76002 111
opposition	7343 Jun 18 05:31	1°る09'34		max. Earth dist.	7349 Feb 27 11:35		10.76092 AU
min. Earth dist.	7343 Jun 18 08:57	1°₹08'53	8.41543 AU	morning rise	7349 Mar 16 08:38	12° <b>)</b> €06'10	
	7343 Jul 03 04:47	30°R ✓		retrograde	7349 Jun 25 00:14	19° <b>)</b> €20'45	001 (10 (
direct	7343 Aug 26 13:10	27° <b>₹</b> 42'36		opposition	7349 Sep 02 08:54	16° <b>)</b> €01'21	
	7343 Oct 18 12:00	0°る		min. Earth dist.	7349 Sep 02 09:04	16° <b>∺</b> 01'19	8.78318 AU
evening set	7343 Dec 10 07:32	5°₹35'46		direct	7349 Nov 11 20:21	12° <b>)</b> (39′22	
	<b>72.12 27.1</b> 10.12	<b>507</b> 4546	10.4011.6	evening set	7350 Feb 22 17:34	20° <b>)</b> €00'25	
conjunction	7343 Dec 27 18:13						
minimum elong	7343 Dec 27 18:15	7° <b>る</b> 45'47		conjunction	7350 Mar 11 14:14	22° <b>)</b> €02'01	
max. Earth dist.	7343 Dec 27 13:32		10.44736 AU	minimum elong	7350 Mar 11 14:13	22° <b>)</b> 02'01	
morning rise	7344 Jan 14 00:54	9° <b>る</b> 54'37		max. Earth dist.	7350 Mar 11 14:13		10.80288 AU
retrograde	7344 Apr 24 00:20	17° <b>る</b> 27'56		morning rise	7350 Mar 28 09:22	24° <b>米</b> 03'11	
opposition	7344 Jun 30 13:10	14° <b>る</b> 06'32			7350 May 29 00:00	0° <b>Υ</b>	
min. Earth dist.	7344 Jun 30 17:00	14° <b>පි</b> 05'46	8.48198 AU	retrograde	7350 Jul 07 08:32	1° <b>Y</b> 16'46	
direct	7344 Sep 08 03:59	10° <b>る</b> 40'17			7350 Aug 16 16:41	30° <b>₹</b>	
evening set	7344 Dec 22 17:00	18° <b>る</b> 28'19		opposition	7350 Sep 15 00:51	27° <b>∺</b> 57'14	
				min. Earth dist.	7350 Sep 15 00:26		8.81969 AU
conjunction	7345 Jan 09 01:08	20° <b>る</b> 36'46	1°32'55	direct	7350 Nov 24 10:53	24° <b>)</b> ₹35′58	
minimum elong	7345 Jan 09 01:10		1°33'00		7351 Feb 18 07:02	$0$ ° $\Upsilon$	
max. Earth dist.	7345 Jan 08 20:19	20° <b>る</b> 35'16	10.51522 AU	evening set	7351 Mar 06 18:18	1° <b>Y</b> 53′10	
morning rise	7345 Jan 26 05:20	22° <b>る</b> 44'03					
	7345 Apr 21 18:28	0° <b>≈</b>		conjunction	7351 Mar 23 13:08	3° <b>Y</b> 53'54	-0°50'08
retrograde	7345 May 06 21:35	0° <b>≈</b> 12'13		minimum elong	7351 Mar 23 13:07	3° <b>Y</b> 53'53	0°50'09
	7345 May 22 01:43	30°₽₹		max. Earth dist.	7351 Mar 23 13:49	3° <b>Y</b> 54'06	10.83315 AU
opposition	7345 Jul 13 18:03	26° <b>ප්</b> 51'36	1°43'19	morning rise	7351 Apr 09 07:19	5° <b>Ƴ</b> 54'24	
min. Earth dist.	7345 Jul 13 22:14	26° <b>る</b> 50'47	8.54990 AU	retrograde	7351 Jul 19 14:18	13° <b>Ƴ</b> 08'04	
direct	7345 Sep 21 15:38	23° <b>පි</b> 26'11		opposition	7351 Sep 27 15:12	9° <b>Ƴ</b> 48'13	-1°15'19
	7345 Dec 26 04:54	0° <b>≈</b>		min. Earth dist.	7351 Sep 27 13:43	9° <b>Ƴ</b> 48'30	8.84387 AU
evening set	7346 Jan 04 19:32	1°≈08'38		direct	7351 Dec 06 22:27	6° <b>Ƴ</b> 27'35	
Ü				evening set	7352 Mar 17 16:54	13° <b>Ƴ</b> 41'54	
conjunction	7346 Jan 22 01:04	3°≈15'30	1°13'14	C			
minimum elong	7346 Jan 22 01:06	3°≈15'31	1°13'18	conjunction	7352 Apr 03 10:25	15° <b>Ƴ</b> 42'00	-1°12'07
max. Earth dist.	7346 Jan 21 20:06	3°≈13'58	10.58323 AU	minimum elong	7352 Apr 03 10:23	15° <b>Ƴ</b> 41'59	1°12'09
morning rise	7346 Feb 08 03:05	5° <b>≈</b> 21'19		max. Earth dist.	7352 Apr 03 12:39		10.85039 AU
retrograde	7346 May 19 13:28	12° <b>≈</b> 44'53		morning rise	7352 Apr 20 03:51	17° <b>Ƴ</b> 42'06	
opposition	7346 Jul 26 19:58	9° <b>≈</b> 24'52	1°16'46	retrograde	7352 Jul 30 22:12	24° <b>Y</b> 56'53	
min. Earth dist.	7346 Jul 26 23:29	9° <b>≈</b> 24'11	8.61669 AU	opposition	7352 Oct 09 04:29	21° <b>Y</b> 36'37	-1°40'31
direct	7346 Oct 05 00:24	6° <b>≈</b> 00'19		min. Earth dist.	7352 Oct 09 01:21		8.85458 AU
evening set	7347 Jan 17 15:19	13° <b>≈</b> 36'59		direct	7352 Dec 18 08:25	18° <b>Υ</b> 16'30	
	7347 Jan 29 00:32	15° <b>≈</b>		evening set	7353 Mar 29 14:28	25° <b>Y</b> 28'53	
conjunction	7347 Feb 03 18:30	15° <b>≈</b> 42'21	0°50'20	conjunction	7353 Apr 15 07:08	27° <b>Y</b> 28'41	-1°31'00
minimum elong	7347 Feb 03 18:32	15° <b>≈</b> 42'22	0°50'25	minimum elong	7353 Apr 15 07:06	27° <b>Y</b> 28'40	1°31'02
max. Earth dist.	7347 Feb 03 14:29		10.64873 AU	max. Earth dist.	7353 Apr 15 11:03	27° <b>Y</b> 29'51	10.85384 AU
morning rise	7347 Feb 20 18:31	17° <b>≈</b> 46'46		morning rise	7353 May 02 00:17	29° <b>Y</b> 28'40	
retrograde	7347 Jun 01 03:56	25°≈06′28		. 8	7353 May 06 11:22	0°8	
opposition	7347 Aug 08 18:54	21° <b>≈</b> 46′50	0°47'03	retrograde	7353 Aug 12 08:58	6° <b>8</b> 45'31	
min. Earth dist.	7347 Aug 08 21:04	21° <b>≈</b> 46′25	8.67962 AU	opposition	7353 Oct 21 17:42	3° <b>8</b> 24'43	-2°01'28
direct	7347 Oct 18 04:12	18° <b>≈</b> 23'11		min. Earth dist.	7353 Oct 21 13:35		8.85136 AU
evening set	7348 Jan 30 04:55	25° <b>≈</b> 54'08		direct	7353 Dec 30 14:46	0° <b>8</b> 05'01	
<i>8</i> - 11				evening set	7354 Apr 10 11:59	7° <b>8</b> 16'25	
conjunction	7348 Feb 16 05:56	27° <b>≈</b> 58'08	0°25'25	8	r		
minimum elong	7348 Feb 16 05:57	27°≈58'08	0°25'29	conjunction	7354 Apr 27 04:17	9° <b>8</b> 16'13	-1°46'02
max. Earth dist.	7348 Feb 16 03:41		10.70886 AU	minimum elong	7354 Apr 27 04:15	9° <b>8</b> 16'13	
	7348 Mar 03 23:47	0° <b>∀</b>		max. Earth dist.	7354 Apr 27 08:45	_	10.84337 AU
morning rise	7348 Mar 04 04:05	0° <b>₩</b> 01'17		morning rise	7354 May 13 21:55	11° <b>8</b> 16'28	10.0.037110
retrograde	7348 Jun 12 15:27	7° <b>)</b> 17'56			7354 Jun 17 02:59	15° <b>8</b>	
opposition	7348 Aug 20 15:05	3° <b>¥</b> 58'30	0°15'37	retrograde	7354 Aug 24 19:14	18° <b>8</b> 36'13	
min. Earth dist.	7348 Aug 20 15:52	3° <b>¥</b> 58′21	8.73590 AU	opposition	7354 Nov 03 07:18	15° <b>8</b> 14'48	-2°17'19
direct	7348 Oct 30 02:05	0° <b>)</b> 35'43	5.,5570710	min. Earth dist.	7354 Nov 03 07:18		8.83432 AU
evening set	7349 Feb 10 13:23	8°\(\frac{1}{33}\)		Zartii dist.	7354 Nov 06 14:02	15°R <b>B</b>	0.00 102 110
desc. node	7349 Feb 22 00:25	9° <b>H</b> 24'05		direct	7355 Jan 11 20:34	13 KO 11° <b>8</b> 55'19	
3050. Houe	,517100 22 00.23	> <b>/(2</b> 703		411000	7355 Mar 15 02:50	15° <b>8</b>	
conjunction	7349 Feb 27 12:13	10° <b>)</b> 04'06	-0°00'23	evening set	7355 Apr 22 10:48	19° <b>8</b> 06'47	
minimum elong	7349 Feb 27 12:13	10° <b>X</b> 04'06	0°00'22	evening set	7555 ripi 22 10.40	17 0004/	
behind sun begin	7349 Feb 27 12.13 7349 Feb 27 05:12	10 X 04 06 10° X 02'00	0 00 22	conjunction	7355 May 09 03:27	21° <b>8</b> 06'57	-1°56'27
ocimia sun begin	1347 FCU 21 U3.12	10 7(0200		conjunction	1333 Iviay U7 U3.21	21 <b>O</b> 003/	-1 303/

minimum elong	7355 May 09 03:26	21° <b>8</b> 06'57	1°56'41	minimum elong	7361 Jul 21 22:22	5° <b>Ω</b> 00'06	1°10'23
max. Earth dist.	7355 May 09 07:49		10.81944 AU	max. Earth dist.	7361 Jul 22 02:34		10.48309 AU
morning rise	7355 May 25 22:21	23° <b>8</b> 07'46		morning rise	7361 Aug 08 12:41	7° <b>Ω</b> 10′24	
	7355 Aug 12 06:05	$\Pi^{\circ}0$			7361 Nov 18 21:45	15° <b>Ω</b>	
retrograde	7355 Sep 06 08:48	0° <b>Ⅱ</b> 31'07		retrograde	7361 Nov 22 03:13	15° <b>Ω</b> 00′33	
	7355 Oct 01 18:15	30° <b>₹</b> 8			7361 Nov 25 08:43	15°R <b>Ω</b>	
opposition	7355 Nov 15 21:35	27° <b>8</b> 09'02		opposition	7362 Jan 30 06:10	11° <b>Ω</b> 34'14	
min. Earth dist.	7355 Nov 15 17:20		8.80413 AU	min. Earth dist.	7362 Jan 30 03:15		8.45002 AU
direct	7356 Jan 24 03:52	23° <b>8</b> 49'33		direct	7362 Apr 07 16:33	8° <b>Ω</b> 11'28	
	7356 Apr 24 15:25	0°II			7362 Jul 11 12:17	15° <b>Ω</b>	
evening set	7356 May 03 11:46	1° <b>Ⅱ</b> 02'02		evening set	7362 Jul 17 20:52	15° <b>Ω</b> 46'13	
conjunction	7356 May 20 05:42	3° <b>Ⅲ</b> 02'58		conjunction	7362 Aug 04 11:24	17° <b>Ω</b> 57'20	-0°45'59
minimum elong	7356 May 20 05:42	3° <b>Ⅱ</b> 02'57		minimum elong	7362 Aug 04 11:26	17° <b>Ω</b> 57'21	0°46'03
max. Earth dist.	7356 May 20 10:55		10.78300 AU	max. Earth dist.	7362 Aug 04 14:52		10.41729 AU
morning rise	7356 Jun 06 02:25	5° <b>Ⅱ</b> 04'43		morning rise	7362 Aug 22 05:21	20° <b>Ω</b> 09'33	
retrograde	7356 Sep 18 02:07	12° <b>∏</b> 32'15		retrograde	7362 Dec 05 19:59	28° <b>Ω</b> 03'17	
opposition	7356 Nov 27 13:22	9° <b>∏</b> 09'24		opposition	7363 Feb 12 12:41	24° <b>Ω</b> 36'31	
min. Earth dist.	7356 Nov 27 08:24	9° <b>Ⅱ</b> 10′20	8.76201 AU	min. Earth dist.	7363 Feb 12 10:24	24° <b>Ω</b> 36′58	8.38575 AU
direct	7357 Feb 04 11:24	5° <b>Ⅱ</b> 49'49		direct	7363 Apr 20 18:51	21°Ω12'47	
evening set	7357 May 15 15:52	13° <b>Ⅱ</b> 04'10		evening set	7363 Jul 31 12:47	28° <b>£</b> 53′09	
	5055 X 01 11 56	150T06110	2002122		7363 Aug 09 12:12	0° Тф	
conjunction	7357 Jun 01 11:56	15° <b>Ⅱ</b> 06'12			<b>72.62</b> 1 10.06 10	1000 00105	0010100
minimum elong	7357 Jun 01 11:57	15° <b>Ⅱ</b> 06'12		conjunction	7363 Aug 18 06:49	1° Mp 06'05	
max. Earth dist.	7357 Jun 01 18:18		10.73560 AU	minimum elong	7363 Aug 18 06:50	1°Mp06'05	
morning rise	7357 Jun 18 11:08	17° <b>Ⅱ</b> 09'12		max. Earth dist.	7363 Aug 18 08:40	•	10.35582 AU
retrograde	7357 Sep 30 23:08	24° <b>Ⅱ</b> 41′20	2020117	morning rise	7363 Sep 05 03:42	3° Mp 19'58	
opposition	7357 Dec 10 07:04	21° <b>Ⅱ</b> 17'42		retrograde	7363 Dec 19 15:17	11° Mp 16'42	0005152
min. Earth dist.	7357 Dec 10 01:24	21° <b>П</b> 18'47 17° <b>П</b> 57'49	8.70979 AU	opposition	7364 Feb 25 21:57	7° Mp 49'40	
direct	7358 Feb 16 21:06	17° <b>П</b> 37'49 25° <b>П</b> 14'54		min. Earth dist.	7364 Feb 25 20:50 7364 Apr 28 18:30	7° Mp 49'53 4° Mp 25'57	8.32787 AU
evening set	7358 May 28 00:27	23 114 34		asc. node direct			
conjunction	7358 Jun 13 23:20	27° <b>Ⅱ</b> 18'23	105720	evening set	7364 May 03 02:02 7364 Aug 13 11:22	4° my 24'56 12° my 10'59	
minimum elong	7358 Jun 13 23:22	27° <b>I</b> I18'23		evening set	7304 Aug 13 11.22	12 IQ 1039	
max. Earth dist.	7358 Jun 14 05:56		10.67933 AU	conjunction	7364 Aug 31 08:07	14° <b>m</b> 25'28	0°09'24
morning rise	7358 Jul 01 01:47	29° <b>I</b> I22'58	10.07733 AO	minimum elong	7364 Aug 31 08:06	14° Mp 25'27	0°09'23
morning rise	7358 Jul 06 06:38	0°9		behind sun begin	7364 Aug 31 02:02	14° m) 23'34	0 0) 23
retrograde	7358 Oct 14 01:13	6°959'48		behind sun end	7364 Aug 31 14:10	14° <b>m</b> ) 27'21	
opposition	7358 Dec 23 02:51	3°935'25	-2°18'36	max. Earth dist.	7364 Aug 31 08:01		10.30279 AU
min. Earth dist.	7358 Dec 22 21:19	3°536'29	8.64978 AU	morning rise	7364 Sep 18 07:03	16° Mp 40'39	10.502/5110
direct	7359 Mar 01 07:55	0°915'04		retrograde	7365 Jan 01 12:18	24° m 39'27	
evening set	7359 Jun 09 14:14	7°935'40		opposition	7365 Mar 10 09:46	21° m) 12'20	0°29'21
C				min. Earth dist.	7365 Mar 10 10:06	21°m/12'16	8.28065 AU
conjunction	7359 Jun 26 16:31	9° <b>©</b> 40'51	-1°46'39	direct	7365 May 16 13:29	17° Mp 46'37	
minimum elong	7359 Jun 26 16:33	9° <b>©</b> 40'52	1°46'46	evening set	7365 Aug 27 15:44	25° m 38'02	
max. Earth dist.	7359 Jun 26 22:05	9° <b>5</b> 42'34	10.61670 AU		-		
morning rise	7359 Jul 13 22:50	11° <b>5</b> 347'16		conjunction	7365 Sep 14 14:13	27° <b>m</b> 53'38	0°37'27
retrograde	7359 Oct 27 06:34	19° <b>©</b> 28'47		minimum elong	7365 Sep 14 14:11	27° m 53'37	0°37'28
opposition	7360 Jan 05 01:17	16° <b>5</b> 03'43	-2°02'20	max. Earth dist.	7365 Sep 14 12:16	27° <b>m</b> 53'00	10.26201 AU
min. Earth dist.	7360 Jan 04 20:48	16° <b>©</b> 04'35	8.58463 AU		7365 Oct 01 07:05	0∘ <b>ত</b>	
direct	7360 Mar 12 22:04	12° <b>5</b> 342'42		morning rise	7365 Oct 02 14:08	0° <b>ჲ</b> 09'39	
evening set	7360 Jun 21 09:49	20° <b>©</b> 07'30		retrograde	7366 Jan 15 10:33	8° <b>ഫ</b> 09'24	
				opposition	7366 Mar 23 23:38	4° <b>£</b> 42'23	1°03'17
conjunction	7360 Jul 08 15:59	22° <b>©</b> 14'36	-1°30'48	min. Earth dist.	7366 Mar 24 01:20	4° <b>≏</b> 42'02	8.24732 AU
minimum elong	7360 Jul 08 16:02	22°©14'37	1°30'54	direct	7366 May 30 05:35	1° <b>≏</b> 15'46	
max. Earth dist.	7360 Jul 08 20:47		10.55037 AU	evening set	7366 Sep 11 00:34	9° <b>£</b> 11'52	
morning rise	7360 Jul 26 02:22	24°9522'57					
	7360 Sep 18 02:06	0° <b>Ω</b>		conjunction	7366 Sep 28 23:42	11° <b>£</b> 28'02	1°03'39
retrograde	7360 Nov 08 14:17	2° <b>Ω</b> 08'59		minimum elong	7366 Sep 28 23:40	11° <b>£</b> 28'01	1°03'41
*.*	7360 Dec 31 08:46	30°Rூ	1020154	max. Earth dist.	7366 Sep 28 20:21		10.23616 AU
opposition	7361 Jan 17 02:26	28°543'15		morning rise	7366 Oct 16 23:18	13° <b>≏</b> 44'20	
min. Earth dist.		7x°9643'58	8.51715 AU	retrograde	7367 Jan 29 07:50	21° <b>≏</b> 43'46	
direct	7361 Jan 16 22:48				72/7 4 0/ 14 45	100 0 17100	1022152
direct	7361 Mar 25 17:54	25° <b>©</b> 21'25		opposition	7367 Apr 06 14:45	18° <b>Ω</b> 17'02	
	7361 Mar 25 17:54 7361 Jun 09 21:17	25° <b>©</b> 21′25 0° <b>Ω</b>		min. Earth dist.	7367 Apr 06 17:14	18° <b>≏</b> 16'32	1°33'53 8.22999 AU
evening set	7361 Mar 25 17:54	25° <b>©</b> 21'25		min. Earth dist. direct	7367 Apr 06 17:14 7367 Jun 13 01:44	18° <b>♀</b> 16'32 14° <b>♀</b> 49'41	
	7361 Mar 25 17:54 7361 Jun 09 21:17	25° <b>©</b> 21′25 0° <b>Ω</b>	-1°10'18	min. Earth dist.	7367 Apr 06 17:14	18° <b>≏</b> 16'32	

conjunction	7367 Oct 13 10:42	25° <b>£</b> 05'36	1°26'23	direct	7373 Sep 02 10:49	5° <b>る</b> 05'06	
minimum elong	7367 Oct 13 10:39	25° <b>Ω</b> 05'35	1°26'26	evening set	7373 Dec 17 00:53	12° <b>る</b> 55'14	
max. Earth dist.	7367 Oct 13 06:48		10.22692 AU	. ,.	7274 1 02 10 10	150704121	1040122
morning rise	7367 Oct 31 08:50	27° <b>£</b> 21'39		conjunction	7374 Jan 03 10:10	15° <b>る</b> 04'21	1°40'33
ratra ara da	7367 Nov 22 09:25	0° <b>ጤ</b> 5° <b>ጤ</b> 19'31		minimum elong max. Earth dist.	7374 Jan 03 10:12	15° <b>る</b> 04'22	1°40'38 10.47990 AU
retrograde	7368 Feb 12 03:43		1°59'18		7374 Jan 03 05:11	13°る0248 17°る12'20	10.47990 AU
opposition	7368 Apr 19 06:36	1°M53'14 1°M52'42	8.22971 AU	morning rise	7374 Jan 20 15:39 7374 May 01 08:37	17 <sup>-</sup> <b>る</b> 12 <sup>-</sup> 20 24° <b>る</b> 42'25	
min. Earth dist.	7368 Apr 19 09:15 7368 May 13 21:07	1°11632'42 30°RΩ	8.229/1 AU	retrograde opposition	7374 May 01 08:37 7374 Jul 08 03:21	24°る42'25 21°る20'59	1°54'01
direct	7368 Jun 26 00:22	30 k== 28° <b>£</b> 25'21		min. Earth dist.	7374 Jul 08 05:21 7374 Jul 08 06:15	21 <b>32</b> 039 21° <b>3</b> 20'25	8.51587 AU
direct	7368 Aug 07 13:57	0°M		direct	7374 Sep 15 23:56	21 <b>3</b> 2023	6.3136/ AU
evening set	7368 Oct 08 23:36	6°M27'14		evening set	7374 Sep 13 23:30 7374 Dec 30 05:42	17 <b>3</b> 3443 25° <b>る</b> 39'18	
evening set	7308 Oct 08 23.30	0 1162/14		evening set	7374 DCC 30 03.42	23 03918	
conjunction	7368 Oct 26 21:11	8°M43'00	1°44'17	conjunction	7375 Jan 16 12:34	27° <b>ප්</b> 46'50	1°22'44
minimum elong	7368 Oct 26 21:11	8°M42'59	1°44'21	minimum elong	7375 Jan 16 12:36	27° <b>ප්</b> 46'51	1°22'48
max. Earth dist.	7368 Oct 26 17:02		10.23479 AU	max. Earth dist.	7375 Jan 16 09:08		10.55084 AU
morning rise	7368 Nov 13 17:02	10°M.58'18	10.23 177 110	morning rise	7375 Feb 02 15:33	29° <b>る</b> 53'15	10.55001710
morning rise	7368 Dec 18 13:29	15°M		morning rise	7375 Feb 03 13:53	0°≈	
retrograde	7369 Feb 24 22:05	18°M53'22		retrograde	7375 May 14 03:15	7°≈18'23	
opposition	7369 May 02 22:19		2°17'59	opposition	7375 Jul 21 05:55	3°≈57'43	1°29'26
min. Earth dist.	7369 May 03 01:16		8.24623 AU	min. Earth dist.	7375 Jul 21 08:10	3°≈57'17	8.58658 AU
min. Bartii digt.	7369 May 08 15:29	15°RM	0.2 1023 110	direct	7375 Sep 29 08:40	0°≈32'28	0.00000110
direct	7369 Jul 09 22:54	11°M59'30		evening set	7376 Jan 12 03:52	8°≈11'12	
ancet	7369 Sep 08 04:54	15°M		evening sec	7570 3411 12 05.52	0 / 4/11/12	
evening set	7369 Oct 23 09:54	20°M02'00		conjunction	7376 Jan 29 08:18	10°≈17'10	1°01'11
e venning see	7507 001 25 07.51	20 11002 00		minimum elong	7376 Jan 29 08:20	10°≈17'11	1°01'16
conjunction	7369 Nov 10 05:30	22°M16'54	1°56'20	max. Earth dist.	7376 Jan 29 05:46		10.62117 AU
minimum elong	7369 Nov 10 05:38	22°M16'54	1°56'25	morning rise	7376 Feb 15 09:08	10 <b>≈</b> 10 23	10.02117 110
max. Earth dist.	7369 Nov 10 00:58		10.25910 AU	morning rise	7376 Mar 09 06:04	15°≈	
morning rise	7369 Nov 27 22:28	24°M31'04	10.23910710	retrograde	7376 May 25 18:55	19° <b>≈</b> 42'55	
morning 1130	7370 Jan 17 07:54	0° <b>x</b> <sup>7</sup>		opposition	7376 Aug 02 05:25	16°≈22'56	1°01'02
retrograde	7370 Mar 10 14:24	2° <b>×</b> <sup>7</sup> 22'12		min. Earth dist.	7376 Aug 02 07:30	16°≈22'32	8.65510 AU
retrograde	7370 May 03 09:08	30°RM		mm. Larm dist.	7376 Aug 20 19:13	15°R≈	0.03310710
opposition	7370 May 16 13:08	28°M57'18	2°28'55	direct	7376 Oct 11 12:16	12°≈58'43	
min. Earth dist.	7370 May 16 15:41	28°M56'35	8.27841 AU	direct	7376 Nov 30 19:05	12 <b>≈</b> 36 <b>4</b> 3	
direct	7370 Jul 23 21:36	25°M29'00	0.27041 AU	evening set	7377 Jan 23 19:52	20°≈31'41	
direct	7370 Oct 07 14:28	0°×7		evening set	7577 Jun 25 17.52	20 /0/31 41	
evening set	7370 Nov 06 16:33	3° <b>×</b> <sup>7</sup> 30'30		conjunction	7377 Feb 09 21:50	22° <b>≈</b> 36'12	0°37'06
evening set	7570 1107 00 10.55	3 × 3030		minimum elong	7377 Feb 09 21:51	22°≈36'12	
conjunction	7370 Nov 24 09:40	5° <b>∡</b> ¹44'12	2°01'56	max. Earth dist.	7377 Feb 09 19:34		10.68761 AU
minimum elong	7370 Nov 24 09:40	5° <b>х</b> 44'12	2°02'01	morning rise	7377 Feb 26 20:48	24°≈39'48	10.00701110
max. Earth dist.	7370 Nov 24 04:35		10.29833 AU		7377 Apr 19 21:06	0° <b>)</b> €	
morning rise	7370 Dec 11 23:36	7° <b>₹</b> 56'58	10.27033 110	retrograde	7377 Jun 07 05:55	1° <b>)</b> 57′07	
retrograde	7371 Mar 24 01:37	15° <b>х</b> 43'19		renograde	7377 Jul 27 11:40	30°R≈	
opposition	7371 May 30 02:28	12° <b>≯</b> 19'16	2°31'38	opposition	7377 Aug 15 02:22	28° <b>≈</b> 37'38	0°30'16
min. Earth dist.	7371 May 30 06:48	12° <b>≯</b> 18′23	8.32433 AU	min. Earth dist.	7377 Aug 15 03:57	28° <b>≈</b> 37'20	8.71832 AU
direct	7371 Aug 06 20:17	8° <b>≯</b> 51'07		direct	7377 Oct 24 12:08	25°≈14'29	
evening set	7371 Nov 20 17:46	16° <b>≯</b> 50'02			7378 Jan 12 10:55	0° <b>∀</b>	
<i>8</i>				evening set	7378 Feb 05 06:10	2° <b>)</b> 42′01	
conjunction	7371 Dec 08 08:13	19° <b>∡</b> 02'17	2°00'55	Č			
minimum elong	7371 Dec 08 08:13	19° <b>∡</b> 02'18	2°01'00	conjunction	7378 Feb 22 05:49	4° <b>)</b> 45′09	0°11'38
max. Earth dist.	7371 Dec 08 02:26		10.35023 AU	minimum elong	7378 Feb 22 05:49	4° <b>)</b> 45′09	0°11'41
morning rise	7371 Dec 25 19:12	21° <b>҂</b> 13'31		behind sun begin	7378 Feb 22 00:47	4° <b>)</b> €43'38	
retrograde	7372 Apr 05 07:31	28° <b>∡</b> 754'33		behind sun end	7378 Feb 22 10:52	4° <b>){</b> 46'40	
opposition	7372 Jun 11 13:34	25° <b>∡</b> ³31′23	2°26'15	max. Earth dist.	7378 Feb 22 04:15	4° <b>)(</b> 44'41	10.74721 AU
min. Earth dist.	7372 Jun 11 18:04	25° <b>х</b> 30′30	8.38135 AU	morning rise	7378 Mar 11 03:07	6° <b>){</b> 47'34	
direct	7372 Aug 19 17:36	22° <b>₹</b> 03'38	-	retrograde	7378 Jun 19 14:58	14° <b>)</b> €02'26	
evening set	7372 Dec 03 12:49	29° <b>₹</b> 58'40		desc. node	7378 Aug 10 19:51	11° <b>)</b> 58'33	
Z .	7372 Dec 03 17:09	0°ප		opposition	7378 Aug 27 20:51	10° <b>)</b> (43'14	-0°01'26
		-		min. Earth dist.	7378 Aug 27 21:03		8.77351 AU
conjunction	7372 Dec 21 00:37	2° <b>る</b> 09'23	1°53'35	direct	7378 Nov 06 09:04	7° <b>)</b> €21'07	
minimum elong	7372 Dec 21 00:38	2° <b>る</b> 09'23	1°53'39	evening set	7379 Feb 17 11:52	14° <b>)(</b> 43'44	
max. Earth dist.	7372 Dec 20 18:47		10.41186 AU	Č			
morning rise	7373 Jan 07 08:46	4° <b>ප</b> 18'59		conjunction	7379 Mar 06 09:29	16° <b>)</b> 45'41	-0°14'10
retrograde	7373 Apr 18 10:01	11° <b>る</b> 54'29		minimum elong	7379 Mar 06 09:28	16° <b>)</b> 45'41	0°14'08
opposition	7373 Jun 24 21:50	8° <b>ප</b> 32'12	2°13'23	behind sun begin	7379 Mar 06 05:55	16° <b>)</b> 44'37	
min. Earth dist.	7373 Jun 25 01:48	8° <b>ප</b> 31'25	8.44632 AU	behind sun end	7379 Mar 06 13:01	16° <b>)</b> 46'44	

max. Earth dist.	7379 Mar 06 09:42	160 <b>¥</b> 45145	10.79744 AU		7385 Jun 02 16:48	0° <b>I</b> I	
morning rise	7379 Mar 06 09.42 7379 Mar 23 05:12	18° <b>H</b> 47'05	10.79744 AU	ratra ara da	7385 Sep 12 14:58	0 H 7°H12'06	
-		26° ¥ 00'30		retrograde			2020102
retrograde	7379 Jul 02 00:27		0022142	opposition	7385 Nov 22 01:17	3° <b>Ⅱ</b> 49'59	
opposition	7379 Sep 09 13:07	22° <b>)</b> 41'24		min. Earth dist.	7385 Nov 21 21:20	3° <b>Ⅱ</b> 50'44	8.78962 AU
min. Earth dist.	7379 Sep 09 11:48	22° <b>∺</b> 41'39	8.81834 AU	direct	7386 Jan 30 02:05	0° <b>Ⅱ</b> 30'46	
direct	7379 Nov 19 00:47	19° <b>)</b> € 20'14		evening set	7386 May 10 09:28	7° <b>Ⅱ</b> 44'08	
evening set	7380 Feb 29 13:56	26° <b>∺</b> 38'39				_	
				conjunction	7386 May 27 04:18	9° <b>Ⅱ</b> 45'34	
conjunction	7380 Mar 17 09:42	28° <b>∺</b> 39'37		minimum elong	7386 May 27 04:18	9° <b>Ⅱ</b> 45'34	
minimum elong	7380 Mar 17 09:41	28° <b>∺</b> 39'37		max. Earth dist.	7386 May 27 08:08		10.76288 AU
max. Earth dist.	7380 Mar 17 11:30		10.83612 AU	morning rise	7386 Jun 13 02:17	11° <b>Ⅱ</b> 47'56	
	7380 Mar 28 12:46	$0$ ° $\Upsilon$		retrograde	7386 Sep 25 08:49	19° <b>Ⅱ</b> 17'54	
morning rise	7380 Apr 03 04:07	0° <b>Ƴ</b> 40'14		opposition	7386 Dec 04 18:12	15° <b>Ⅱ</b> 54'49	-2°30'20
retrograde	7380 Jul 13 07:44	7° <b>Ƴ</b> 53'12		min. Earth dist.	7386 Dec 04 14:38	15° <b>Ⅱ</b> 55'30	8.73641 AU
opposition	7380 Sep 21 03:56	4° <b>Ƴ</b> 34'02	-1°02'20	direct	7387 Feb 11 11:20	12° <b>Ⅱ</b> 35′09	
min. Earth dist.	7380 Sep 21 01:50	4° <b>Ƴ</b> 34'26	8.85081 AU	evening set	7387 May 22 15:57	19° <b>Ⅱ</b> 51′00	
direct	7380 Nov 30 12:01	1° <b>Y</b> 13'41					
evening set	7381 Mar 12 13:26	8° <b>Y</b> 28'46		conjunction	7387 Jun 08 13:19	21° <b>Ⅲ</b> 53'47	-2°00'21
				minimum elong	7387 Jun 08 13:20	21° <b>Ⅲ</b> 53'48	2°00'27
conjunction	7381 Mar 29 07:28	10° <b>Y</b> ′28′58	-1°02'09	max. Earth dist.	7387 Jun 08 17:19	21° <b>II</b> 55'01	10.70498 AU
minimum elong	7381 Mar 29 07:27	10° <b>Ƴ</b> 28'57	1°02'11	morning rise	7387 Jun 25 14:17	23° <b>I</b> 57'38	
max. Earth dist.	7381 Mar 29 09:46	10° <b>Y</b> 29'39	10.86151 AU	Č	7387 Aug 25 16:29	0°€	
morning rise	7381 Apr 15 01:02	12° <b>Y</b> ′29′02		retrograde	7387 Oct 08 07:57	1°\$32'23	
retrograde	7381 Jul 25 15:13	19° <b>Y</b> '42'39			7387 Nov 21 20:38	30°R <b>Ⅱ</b>	
opposition	7381 Oct 03 17:44	16° <b>Y</b> 23'13	-1°29'08	opposition	7387 Dec 17 12:57	28° <b>I</b> I08'19	-2°23'52
min. Earth dist.	7381 Oct 03 15:34	16° <b>Y</b> 23'37		min. Earth dist.	7387 Dec 17 09:24		8.67422 AU
direct	7381 Dec 12 22:25	13° <b>Υ</b> '03'29	0.00750710	direct	7388 Feb 23 22:39	24° <b>II</b> 48'02	0.07 122 110
evening set	7382 Mar 24 11:23	20° <b>Υ</b> 16'10		direct	7388 May 15 20:43	0°95	
evening set	7302 Wai 24 11.23	20 1 10 10		evening set	7388 Jun 03 03:05	2° <b>©</b> 07'09	
conjunction	7382 Apr 10 04:10	22° <b>Υ</b> 15'53	1022122	evening set	7388 Juli 03 03.03	2 307 09	
•	•	$22^{\circ}$ <b>Y</b> 15'52		agniumation	7388 Jun 20 03:46	4°911'35	1952!14
minimum elong	7382 Apr 10 04:08		1°22′33 10.87227 AU	conjunction			
max. Earth dist.	7382 Apr 10 06:23		10.8/22/ AU	minimum elong	7388 Jun 20 03:48	4°911'36	
morning rise	7382 Apr 26 21:24	24° <b>Y</b> 15'43		max. Earth dist.	7388 Jun 20 08:37		10.63952 AU
	7382 Jun 24 15:06	0°8		morning rise	7388 Jul 07 08:11	6°517'11	
retrograde	7382 Aug 06 23:20	1° <b>8</b> 30'57		retrograde	7388 Oct 20 11:03	13°956'50	
	7382 Sep 20 14:05	30° <b>₹</b> Υ		opposition	7388 Dec 29 10:11	10°531'47	
opposition	7382 Oct 16 06:56	28° <b>Y</b> 11′04		min. Earth dist.	7388 Dec 29 06:05		8.60579 AU
min. Earth dist.	7382 Oct 16 04:26		8.87266 AU	direct	7389 Mar 07 11:59	7° <b>©</b> 10'45	
direct	7382 Dec 25 06:09	24° <b>Y</b> 51'46		evening set	7389 Jun 15 19:42	14° <b>©</b> 33'51	
	7383 Mar 18 08:03	0° <b>8</b>				_	
evening set	7383 Apr 05 08:44	2° <b>8</b> 03'05		conjunction	7389 Jul 03 00:12	16°9540'11	
				minimum elong	7389 Jul 03 00:14	16°9540'12	1°38'51
conjunction	7383 Apr 22 01:00	4° <b>8</b> 02'40	-1°39'26	max. Earth dist.	7389 Jul 03 05:10	16° <b>©</b> 41'43	10.56938 AU
minimum elong	7383 Apr 22 00:58	4° <b>8</b> 02'40		morning rise	7389 Jul 20 08:33	18° <b>©</b> 47'43	
max. Earth dist.	7383 Apr 22 04:03	4° <b>8</b> 03'35	10.86720 AU	retrograde	7389 Nov 02 18:23	26° <b>©</b> 32'10	
morning rise	7383 May 08 18:22	6° <b>8</b> 02'36		opposition	7390 Jan 11 10:05	23°506'14	-1°51'03
retrograde	7383 Aug 19 08:40	13° <b>8</b> 20'28		min. Earth dist.	7390 Jan 11 06:07	23° <b>©</b> 07'01	8.53413 AU
opposition	7383 Oct 28 20:07	9° <b>8</b> 59'57	-2°10'25	direct	7390 Mar 20 04:54	19° <b>5</b> 044'19	
min. Earth dist.	7383 Oct 28 16:48	10° <b>8</b> 00'35	8.85979 AU	evening set	7390 Jun 28 18:51	27°512'04	
direct	7384 Jan 06 13:43	6° <b>8</b> 40'55					
evening set	7384 Apr 16 06:51	13° <b>8</b> 51'58		conjunction	7390 Jul 16 03:22	29° <b>©</b> 20'26	-1°20'20
	7384 Apr 25 19:15	15° <b>∀</b>		minimum elong	7390 Jul 16 03:25	29° <b>5</b> 20'27	1°20'25
				max. Earth dist.	7390 Jul 16 07:18	29° <b>5</b> 21'39	10.49766 AU
conjunction	7384 May 02 23:16	15° <b>8</b> 51'48	-1°52'09		7390 Jul 21 10:59	$0^{\circ}\Omega$	
minimum elong	7384 May 02 23:15	15° <b>8</b> 51'48	1°52'12	morning rise	7390 Aug 02 15:52	1° <b>Ω</b> 30'01	
max. Earth dist.	7384 May 03 03:19		10.84614 AU	retrograde	7390 Nov 16 06:27	9° <b>Ω</b> 18'54	
morning rise	7384 May 19 17:17	17° <b>8</b> 52'10		opposition	7391 Jan 24 12:41	5° <b>Ω</b> 52'15	-1°25'40
retrograde	7384 Aug 30 22:49	25° <b>8</b> 13'31		min. Earth dist.	7391 Jan 24 09:39	5° <b>£</b> 52'51	
opposition	7384 Nov 09 10:00	21° <b>8</b> 52'16	-2°23'16	direct	7391 Apr 02 00:37	2° <b>Ω</b> 29'19	
min. Earth dist.	7384 Nov 09 05:57		8.83146 AU	evening set	7391 Jul 12 00:45	10° <b>Ω</b> 02'16	
direct	7385 Jan 17 20:14	18° <b>8</b> 33'16	5.55170 AU	croning set	7571 Jul 12 00.75	10 0602 10	
evening set	7385 Apr 28 06:49	25° <b>8</b> 45'01		conjunction	7391 Jul 29 13:20	12° <b>Ω</b> 12'41	-0°57'40
evening set	7505 Apr 20 00.49	25 0+501		minimum elong	7391 Jul 29 13:22	$12^{\circ}\Omega 12^{\circ}41$	
conjunction	7385 May 15 00:03	27° <b>8</b> 45'28	-2°00'08	max. Earth dist.	7391 Jul 29 15:52		10.42769 AU
minimum elong	7385 May 15 00:03	27° <b>8</b> 45'28		morning rise	7391 Jul 29 13.32 7391 Aug 16 05:49	12 <b>δι</b> 13 28 14° <b>Ω</b> 24'16	10.72/09 AU
max. Earth dist.	-		10.81067 AU	morning rise	-	14°8€24 16 15°Ω	
max. Earth dist.	7385 May 15 04:17 7385 May 31 19:37	29° <b>8</b> 46'40	10.0100/ AU	retrograde	7391 Aug 21 03:36 7391 Nov 29 21:04	15°8ℓ 22°Ω17'07	
morning rise	1303 Way 31 19.31	27 <b>0</b> 40 40		renograue	1331 INUV 27 21.04	22 <b>06</b> 1/U/	

opposition	7392 Feb 06 18:19	18° <b>Ω</b> 49'54	-0°55'31	max. Earth dist.	7397 Oct 20 12:18	2°M44'00	10.22186 AU
min. Earth dist.	7392 Feb 06 16:28	18° <b>Ω</b> 50′16	8.39443 AU	morning rise	7397 Nov 07 12:59	5°M00'59	
direct	7392 Apr 14 01:59	15° <b>Ω</b> 25'57		retrograde	7398 Feb 19 02:06	12°M58'03	
evening set	7392 Jul 24 13:27	23° <b>Ω</b> 04′25		opposition	7398 Apr 27 02:25	9° <b>™</b> 32'07	2°10'15
				min. Earth dist.	7398 Apr 27 05:13	9°M31'32	8.23122 AU
conjunction	7392 Aug 11 05:52	25° <b>Ω</b> 16'45	-0°31'44	direct	7398 Jul 03 22:05	6° <b>™</b> 04'05	
minimum elong	7392 Aug 11 05:54	25° <b>Ω</b> 16'46	0°31'47	evening set	7398 Oct 17 05:37	14°ML07'03	
max. Earth dist.	7392 Aug 11 07:32		10.36291 AU		7398 Oct 24 06:19	15°M	
morning rise	7392 Aug 29 01:44	27° <b>Ω</b> 30′09					
_	7392 Sep 19 04:26	0° <b>m</b>		conjunction	7398 Nov 04 02:02	16°M22'30	1°51'30
retrograde	7392 Dec 12 14:07	5° m 26'21		minimum elong	7398 Nov 04 02:00	16°M22'30	1°51'35
opposition	7393 Feb 19 02:44	1° m 58'44		max. Earth dist.	7398 Nov 03 21:41		10.24247 AU
min. Earth dist.	7393 Feb 19 01:38		8.33341 AU	morning rise	7398 Nov 21 20:33	18°M37'21	
J:4	7393 Mar 17 09:59	30°R€ 200 032147		retrograde	7399 Mar 04 19:32	26°M30'57	2024146
direct	7393 Apr 27 08:32	28° <b>Ω</b> 33'47 0° <b>m</b>		opposition min. Earth dist.	7399 May 10 18:26	23°M05'54 23°M05'17	2°24'46 8.26023 AU
ovening set	7393 Jun 06 14:36 7393 Aug 07 09:10	0 my 6° my 17'52		direct	7399 May 10 21:31 7399 Jul 17 22:45	19°M37'53	8.20023 AU
evening set	7393 Aug 07 09.10	0 HJ 1732		evening set	7399 Jul 17 22:43 7399 Oct 31 14:50	27°M40'32	
conjunction	7393 Aug 25 04:54	8° <b>m</b> 31'55	0°03'52	evening set	7399 Oct 31 14.30	27 11640 32	
minimum elong	7393 Aug 25 04:53	8° Mp 31'55		conjunction	7399 Nov 18 09:04	29°M54'53	2°00'03
behind sun begin	7393 Aug 24 21:41	8° m, 29'40	0 03 34	minimum elong	7399 Nov 18 09:03	29°M54'52	
behind sun end	7393 Aug 25 12:04	8° Mp 34'10		max. Earth dist.	7399 Nov 18 04:32		10.27895 AU
max. Earth dist.	7393 Aug 25 06:03		10.30670 AU	max. Earth dist.	7399 Nov 19 01:11	0° <b>₹</b>	10.27075710
morning rise	7393 Sep 12 03:11	10° <b>m</b> ) 46'47	10.50070110	morning rise	7399 Dec 06 00:34	2° <b>×</b> <sup>7</sup> 08'24	
asc. node	7393 Oct 14 20:48	14° m 33'16		retrograde	7400 Mar 18 08:52	9° <b>х</b> 57′30	
retrograde	7393 Dec 26 10:09	18° m 45'26		opposition	7400 May 24 09:05	6° <b>х</b> 33′23	2°31'12
opposition	7394 Mar 04 13:35	15° m 17'39	0°13'08	min. Earth dist.	7400 May 24 12:00	6° <b>∡</b> ³32'48	8.30389 AU
min. Earth dist.	7394 Mar 04 12:49	15° <b>m</b> ) 17'49	8.28273 AU	direct	7400 Jul 31 22:57	3° <b>₹</b> 05'34	
direct	7394 May 10 18:32	11° <b>m</b> 51'46		evening set	7400 Nov 14 19:27	11° <b>√</b> 06′13	
evening set	7394 Aug 21 11:14	19° <b>m</b> 41'20					
				conjunction	7400 Dec 02 11:15	13° <b>∡</b> 19'12	2°02'00
conjunction	7394 Sep 08 09:16	21° Mp 56'41	0°24'38	minimum elong	7400 Dec 02 11:15	13° <b>∡</b> 19'12	2°02'05
minimum elong	7394 Sep 08 09:14	21°M 56'41	0°24'38	max. Earth dist.	7400 Dec 02 07:00	13° <b>∡</b> 17'52	10.32888 AU
max. Earth dist.	7394 Sep 08 09:42	21°M 56'49	10.26218 AU	morning rise	7400 Dec 19 23:36	15° <b>∡</b> ³31'11	
morning rise	7394 Sep 26 08:54	24° Mp 12'35		retrograde	7401 Mar 31 18:45	23° <b>∡</b> 15′02	
	7394 Nov 19 09:34	0∘ <b>⊽</b>		opposition	7401 Jun 06 21:47	19° <b>∡</b> ′51′53	2°29'24
retrograde	7395 Jan 09 09:19	2° <b>£</b> 12'40		min. Earth dist.	7401 Jun 07 00:52	19° <b>∡</b> 751′16	8.35915 AU
	7395 Mar 02 08:26	30°R, Mp		direct	7401 Aug 14 20:46	16° <b>∡</b> °24′27	
opposition	7395 Mar 18 02:48	28° <b>m</b> 44'59		evening set	7401 Nov 28 18:09	24° <b>∡</b> ²21'37	
min. Earth dist.	7395 Mar 18 02:30		8.24530 AU				
direct	7395 May 24 07:47	25° Mp 18'17		conjunction	7401 Dec 16 07:19	26° <b>₹</b> 33'05	
	7395 Aug 08 12:14	0° <b>⊽</b>		minimum elong	7401 Dec 16 07:20	26° ₹ 33'05	1°57'31
evening set	7395 Sep 04 18:21	3° <b>≏</b> 12'50		max. Earth dist.	7401 Dec 16 02:55		10.38866 AU
amiumatian	7205 San 22 17:20	50 0 20150	0°51'55	morning rise	7402 Jan 02 16:36	28°፟፟ጱ⁴43'25 0°♂	
conjunction	7395 Sep 22 17:30 7395 Sep 22 17:28	5° <b>Ω</b> 28'59		ratra ara da	7402 Jan 13 05:38	0 8 6° <b>る</b> 21'41	
minimum elong max. Earth dist.	7395 Sep 22 17.28 7395 Sep 22 16:57	5° <b>£</b> 28'58	0°51'56 10.23205 AU	retrograde opposition	7402 Apr 14 01:09 7402 Jun 20 07:58	6 32141 2° <b>3</b> 59'28	2°19'46
morning rise	7395 Oct 10 17:18	7° <b>£</b> 45'23	10.23203 AC	min. Earth dist.	7402 Jun 20 07:38	2°る58'42	
retrograde	7396 Jan 23 08:11	15° <b>Ω</b> 45'45		mm. Larm dist.	7402 July 20 11:47 7402 Aug 05 10:45	30°R. <b>₹</b>	0.42207710
opposition	7396 Mar 30 17:50	12° <b>♀</b> 18'25	1°20'21	direct	7402 Aug 28 14:37	29° <b>х</b> 32′34	
min. Earth dist.	7396 Mar 30 18:23	12° <b>£</b> 18'18	8.22346 AU		7402 Sep 20 18:46	0°る	
direct	7396 Jun 06 01:47	8° <b>£</b> 51'05		evening set	7402 Dec 12 10:01	7° <b>る</b> 25'12	
evening set	7396 Sep 18 05:10	16° <b>≏</b> 49'45		C			
-				conjunction	7402 Dec 29 20:29	9° <b>ට</b> 35'05	1°46'50
conjunction	7396 Oct 06 04:20	19° <b>≙</b> 06'10	1°16'25	minimum elong	7402 Dec 29 20:31	9° <b>ප</b> 35'06	1°46'55
minimum elong	7396 Oct 06 04:17	19° <b>ჲ</b> 06'09	1°16'28	max. Earth dist.	7402 Dec 29 15:21	9° <b>る</b> 33'29	10.45411 AU
max. Earth dist.	7396 Oct 06 02:16	19° <b>ჲ</b> 05'30	10.21830 AU	morning rise	7403 Jan 16 03:02	11° <b>る</b> 43'48	
morning rise	7396 Oct 24 03:15	21° <b>≏</b> 22'33		retrograde	7403 Apr 27 01:40	19° <b>る</b> 16'35	
retrograde	7397 Feb 05 05:58	29° <b>≏</b> 21'54		opposition	7403 Jul 03 15:20	15° <b>る</b> 55'16	2°03'09
opposition	7397 Apr 13 09:54	25° <b>£</b> 55'11	1°48'21	min. Earth dist.	7403 Jul 03 19:50	15° <b>る</b> 54'23	8.48861 AU
min. Earth dist.	7397 Apr 13 11:48	25° <b>≏</b> 54'47	8.21869 AU	direct	7403 Sep 11 06:28	12° <b>る</b> 29'04	
direct	7397 Jun 19 22:58	22° <b>₽</b> 27'23		evening set	7403 Dec 25 18:43	20° <b>る</b> 16'35	
	7397 Sep 28 20:15	0°M,				<del>-</del> -	
evening set	7397 Oct 02 17:41	0°M28'59		conjunction	7404 Jan 12 02:36	22° <b>3</b> 24'53	1°31'00
	7207 O : 20 17 75	20M /	1026141	minimum elong	7404 Jan 12 02:39	22° <b>3</b> 24'54	1°31'05
conjunction	7397 Oct 20 15:53	2°M45'09	1°36'41	max. Earth dist.	7404 Jan 11 20:53		10.52149 AU
minimum elong	7397 Oct 20 15:50	2°M45'08	1 30 43	morning rise	7404 Jan 29 06:48	24° <b>る</b> 32'04	

	7404 Mar 21 14:12	0° <b>≈</b>		conjunction	7410 Mar 25 14:28	5° <b>Ƴ</b> 42'04	-0°52'39
retrograde	7404 May 08 21:19	0 <b>~</b> 1° <b>≈</b> 59'50		minimum elong	7410 Mar 25 14:26	5° <b>Υ</b> 42'04	
retrograde	7404 Jun 27 23:23	30°R♂		max. Earth dist.	7410 Mar 25 15:21		10.82712 AU
opposition	7404 Jul 15 19:49	28° <b>ප</b> 39'17	1°40'42	morning rise	7410 Apr 11 08:35	7° <b>Υ</b> 42'40	10.02712110
min. Earth dist.	7404 Jul 16 00:11	28°₹38'26	8.55558 AU	retrograde	7410 Jul 21 17:23	14° <b>Y</b> 56'56	
direct	7404 Sep 23 19:12	25° <b>ප</b> 13'56	0.00000110	opposition	7410 Sep 29 17:47	11° <b>Y</b> 36'59	-1°18'16
	7404 Dec 12 07:37	0° <b>≈</b>		min. Earth dist.	7410 Sep 29 15:48	11° <b>Y</b> 37'22	8.83684 AU
evening set	7405 Jan 06 20:41	2°≈55'57		direct	7410 Dec 09 01:38	8°Υ16'20	
				evening set	7411 Mar 20 18:38	15° <b>Υ</b> 31'01	
conjunction	7405 Jan 24 02:09	5°≈02'43	1°10'56	844			
minimum elong	7405 Jan 24 02:11	5° <b>≈</b> 02'44	1°11'01	conjunction	7411 Apr 06 12:13	17° <b>Ƴ</b> 31'14	-1°14'20
max. Earth dist.	7405 Jan 23 20:50	5°≈01'05	10.58814 AU	minimum elong	7411 Apr 06 12:11	17° <b>Ƴ</b> 31'13	1°14'23
morning rise	7405 Feb 10 04:08	7°≈08'26		max. Earth dist.	7411 Apr 06 15:02	17° <b>Ƴ</b> 32'05	10.84239 AU
retrograde	7405 May 21 14:57	14° <b>≈</b> 31'47		morning rise	7411 Apr 23 05:35	19° <b>Ƴ</b> 31'27	
opposition	7405 Jul 28 21:23	11° <b>≈</b> 11'49	1°13'45	retrograde	7411 Aug 03 02:43	26° <b>Ƴ</b> 46'54	
min. Earth dist.	7405 Jul 29 00:36	11° <b>≈</b> 11'11	8.62064 AU	opposition	7411 Oct 12 07:35	23° <b>Y</b> 26'31	-1°43'04
direct	7405 Oct 07 02:42	7° <b>≈</b> 47'22		min. Earth dist.	7411 Oct 12 04:22	23° <b>Y</b> 27'07	8.84576 AU
	7406 Jan 16 08:51	15° <b>≈</b>		direct	7411 Dec 21 09:53	20° <b>Y</b> 06′21	
evening set	7406 Jan 19 16:10	15° <b>≈</b> 23'42		evening set	7412 Mar 31 16:47	27° <b>Ƴ</b> 19'12	
C				Č			
conjunction	7406 Feb 05 19:21	17° <b>≈</b> 29'02	0°47'47	conjunction	7412 Apr 17 09:25	29° <b>Ƴ</b> 19'07	-1°32'51
minimum elong	7406 Feb 05 19:23	17° <b>≈</b> 29'03	0°47'51	minimum elong	7412 Apr 17 09:23	29° <b>Ƴ</b> 19′06	1°32'54
max. Earth dist.	7406 Feb 05 15:40	17° <b>≈</b> 27'54	10.65167 AU	max. Earth dist.	7412 Apr 17 12:57	29° <b>Y</b> 20'11	10.84421 AU
morning rise	7406 Feb 22 19:14	19° <b>≈</b> 33'24			7412 Apr 23 01:05	0°8	
retrograde	7406 Jun 03 05:34	26°≈53'02		morning rise	7412 May 04 02:40	1° <b>8</b> 19'16	
opposition	7406 Aug 10 20:21	23° <b>≈</b> 33'27	0°43'47	retrograde	7412 Aug 14 12:02	8° <b>8</b> 36'51	
min. Earth dist.	7406 Aug 10 22:24	23° <b>≈</b> 33'03	8.68141 AU	opposition	7412 Oct 23 21:23	5° <b>8</b> 15'55	-2°03'30
direct	7406 Oct 20 04:32	20°≈09'54		min. Earth dist.	7412 Oct 23 17:52		8.84110 AU
evening set	7407 Feb 01 05:39	27° <b>≈</b> 40'41		direct	7413 Jan 01 16:52	1° <b>8</b> 56'06	
-				evening set	7413 Apr 12 14:55	9° <b>8</b> 08'06	
conjunction	7407 Feb 18 06:36	29° <b>≈</b> 44'39	0°22'43	-			
minimum elong	7407 Feb 18 06:37	29° <b>≈</b> 44'40	0°22'46	conjunction	7413 Apr 29 07:11	11° <b>8</b> 08'03	-1°47'25
max. Earth dist.	7407 Feb 18 04:27	29° <b>≈</b> 44'00	10.70954 AU	minimum elong	7413 Apr 29 07:09	11° <b>8</b> 08'02	1°47'29
	7407 Feb 20 08:49	0° <b>∀</b>		max. Earth dist.	7413 Apr 29 10:58	11° <b>8</b> 09'11	10.83250 AU
morning rise	7407 Mar 07 04:36	1° <b>)</b> 47'48		morning rise	7413 May 16 01:02	13° <b>8</b> 08'27	
retrograde	7407 Jun 15 16:48	9° <b>₩</b> 04'36			7413 Jun 01 06:02	15° <b>8</b>	
opposition	7407 Aug 23 16:45	5° <b>)</b> 45′12	0°12'15	retrograde	7413 Aug 26 23:43	20° <b>8</b> 29'01	
min. Earth dist.	7407 Aug 23 18:09	5° <b>)</b> 44'56	8.73544 AU	opposition	7413 Nov 05 11:35	17° <b>8</b> 07'27	-2°18'44
direct	7407 Nov 02 03:24	2° <b>ℋ</b> 22'28		min. Earth dist.	7413 Nov 05 07:42	17° <b>8</b> 08'11	8.82300 AU
desc. node	7408 Jan 15 18:16	6° <b>)</b> 34′56			7413 Dec 06 02:09	15° <b>₹</b> ႘	
evening set	7408 Feb 13 14:14	9° <b>)</b> 48′10		direct	7414 Jan 14 00:39	13° <b>8</b> 47'50	
					7414 Feb 21 00:25	15° <b>8</b>	
conjunction	7408 Mar 01 12:54	11° <b>)</b> 50′53	-0°03'12	evening set	7414 Apr 24 14:17	20° <b>8</b> 59'55	
minimum elong	7408 Mar 01 12:54	11° <b>¥</b> 50′53	0°03'10				
behind sun begin	7408 Mar 01 05:54	11° <b>)(</b> 48'47		conjunction	7414 May 11 07:05	23° <b>8</b> 00'16	-1°57'27
behind sun end	7408 Mar 01 19:55	11° <b>)</b> 53′00		minimum elong	7414 May 11 07:04	23° <b>8</b> 00'16	
max. Earth dist.	7408 Mar 01 11:23		10.75932 AU	max. Earth dist.	7414 May 11 11:45		10.80772 AU
morning rise	7408 Mar 18 09:23	13° <b>¥</b> 52'59		morning rise	7414 May 28 02:08	25° <b>8</b> 01'17	
retrograde	7408 Jun 27 02:16	21° <b>∺</b> 07'51			7414 Jul 15 01:31	$\Pi^{\circ}0$	
opposition	7408 Sep 04 10:43	17° <b>)</b> 48′28		retrograde	7414 Sep 08 13:49	2° <b>Ⅱ</b> 25'30	
min. Earth dist.	7408 Sep 04 11:46	17° <b>)</b> 48′16	8.78049 AU		7414 Nov 05 10:03	30° <b>₹</b> 8	
direct	7408 Nov 13 21:37	14° <b>∺</b> 26′30		opposition	7414 Nov 18 02:28	29° <b>8</b> 03'13	
evening set	7409 Feb 24 18:37	21° <b>)</b> 47'43		min. Earth dist.	7414 Nov 17 21:47		8.79216 AU
				direct	7415 Jan 26 07:55	25° <b>8</b> 43'38	
conjunction	7409 Mar 13 15:10	23° <b>)</b> (49'22			7415 Apr 10 10:06	0°II	
minimum elong	7409 Mar 13 15:09	23° <b>)</b> (49'22		evening set	7415 May 06 15:53	2° <b>Ⅱ</b> 56'45	
max. Earth dist.	7409 Mar 13 14:17		10.79905 AU		#44.#3.*	40	2002:20
morning rise	7409 Mar 30 10:23	25° <b>¥</b> 50'36		conjunction	7415 May 23 10:07	4° <b>Ⅱ</b> 57'53	
	7409 May 08 02:32	0° <b>Υ</b>		minimum elong	7415 May 23 10:07	4° <b>Ⅱ</b> 57'53	
retrograde	7409 Jul 09 09:10	3°Υ04'38		max. Earth dist.	7415 May 23 16:14		10.77079 AU
	7409 Sep 13 19:20	30° <b>₹</b>	0050102	morning rise	7415 Jun 09 06:59	6° <b>Ⅱ</b> 59'51	
opposition	7409 Sep 17 02:58	29° <b>H</b> 45'03		retrograde	7415 Sep 21 07:57	14° <b>Ⅱ</b> 28'15	2021105
min. Earth dist.	7409 Sep 17 02:44	29° <b>H</b> 45'05	8.81475 AU	opposition	7415 Nov 30 18:45	11° <b>I</b> I05'12	
direct	7409 Nov 26 12:26	26° <b>)</b> €23'46		min. Earth dist.	7415 Nov 30 13:04		8.74971 AU
	7410 Feb 03 00:21	0°Υ 2°Υ41117		direct	7416 Feb 07 16:25	7° <b>Ⅱ</b> 45'30	
evening set	7410 Mar 08 19:36	3° <b>Ƴ</b> 41'17		evening set	7416 May 17 20:48	15° <b>Ⅱ</b> 00'31	

conjunction	7416 Jun 03 17:07	17° <b>Ⅱ</b> 02'47			7422 Jul 25 23:43	0°Щ	
minimum elong	7416 Jun 03 17:08	17° <b>Ⅱ</b> 02'48	2°02'13	evening set	7422 Aug 02 21:39	0° Mp 57'42	
max. Earth dist.	7416 Jun 03 23:40	17° <b>Ⅱ</b> 04'47	10.72326 AU				
morning rise	7416 Jun 20 16:35	19° <b>Ⅱ</b> 06′02		conjunction	7422 Aug 20 15:48	3° Mp 10'43	-0°15'39
retrograde	7416 Oct 03 07:06	26° <b>Ⅱ</b> 38'58		minimum elong	7422 Aug 20 15:49	3° ₩ 10'43	0°15'41
opposition	7416 Dec 12 12:59	23° <b>Ⅱ</b> 15'10	-2°27'23	behind sun begin	7422 Aug 20 14:44	3° Mp 10'23	
min. Earth dist.	7416 Dec 12 07:12	23° <b>Ⅱ</b> 16'17	8.69756 AU	behind sun end	7422 Aug 20 16:53	3° Mp 11'03	
direct	7417 Feb 19 01:07	19° <b>Ⅱ</b> 55'10		max. Earth dist.	7422 Aug 20 17:24	3° Mp 11'13	10.35422 AU
evening set	7417 May 30 06:07	27° <b>Ⅱ</b> 12'56		morning rise	7422 Sep 07 12:54	5° m 24'39	
Ç	,			retrograde	7422 Dec 21 23:36	13° <b>m</b> 21'17	
conjunction	7417 Jun 16 05:13	29° <b>Ⅱ</b> 16'38	-1°56'15	opposition	7423 Feb 28 05:46	9° <b>m</b> 54'17	-0°01'41
minimum elong	7417 Jun 16 05:14	29° <b>I</b> 16'39		min. Earth dist.	7423 Feb 28 04:57		8.32769 AU
max. Earth dist.	7417 Jun 16 03:14		10.66738 AU	asc. node	7423 Pc0 28 04:37 7423 Mar 18 07:44	8° Mp 29'45	8.32709 AU
max. Earth dist.			10.00/38 AU				
	7417 Jun 22 03:01	0.ee		direct	7423 May 06 09:41	6° m 29'30	
morning rise	7417 Jul 03 08:05	1°521'29		evening set	7423 Aug 16 20:27	14° Mp 15'42	
retrograde	7417 Oct 16 08:06	8° <b>9</b> 59'04					
opposition	7417 Dec 25 09:25	5° <b>©</b> 34'33		conjunction	7423 Sep 03 17:13	16°Mp30'11	0°12'44
min. Earth dist.	7417 Dec 25 04:16	5° <b>©</b> 35'33	8.63818 AU	minimum elong	7423 Sep 03 17:13	16° Mp 30'11	0°12'43
direct	7418 Mar 03 13:06	2° <b>©</b> 14'02		behind sun begin	7423 Sep 03 12:44	16° Mp 28′47	
evening set	7418 Jun 11 20:30	9° <b>©</b> 35'20		behind sun end	7423 Sep 03 21:42	16° Mp 31'35	
				max. Earth dist.	7423 Sep 03 16:41	16° Mp 30'01	10.30386 AU
conjunction	7418 Jun 28 23:08	11° <b>5</b> °40'46	-1°44'56	morning rise	7423 Sep 21 16:18	18° <b>m</b> 45′22	
minimum elong	7418 Jun 28 23:10	11°540'47	1°45'02	retrograde	7424 Jan 04 20:55	26° m 43'54	
max. Earth dist.	7418 Jun 29 04:39	11°5642'28	10.60567 AU	opposition	7424 Mar 12 17:31	23° m 16'51	0°33'24
morning rise	7418 Jul 16 05:53	13° <b>©</b> 47'25		min. Earth dist.	7424 Mar 12 18:09	23° m 16'43	8.28286 AU
retrograde	7418 Oct 29 12:50	21°529'38		direct	7424 May 18 21:21	19° <b>m</b> 51'07	
opposition	7419 Jan 07 08:16	18°904'26	-1°50'51	evening set	7424 Aug 30 00:42	27° mp 42'34	
min. Earth dist.	7419 Jan 07 03:48		8.57420 AU	evening set	7424 Aug 30 00.42	27 11442 34	
			6.57420 AU	agnismation	7424 San 16 22:12	200 m 50105	0940126
direct	7419 Mar 16 05:37	14°9543'17		conjunction	7424 Sep 16 23:12	29° m 58'05	0°40'36
evening set	7419 Jun 24 16:50	22° <b>©</b> 08'45		minimum elong	7424 Sep 16 23:10	29° <b>m</b> 58'04	0°40'36
		_		max. Earth dist.	7424 Sep 16 21:18		10.26520 AU
conjunction	7419 Jul 11 23:30	24°9516'06			7424 Sep 17 05:15	0。 <b>⊽</b>	
minimum elong	7419 Jul 11 23:33	24°916'07	1°28'35	morning rise	7424 Oct 04 23:04	2° <b>£</b> 14'03	
max. Earth dist.	7419 Jul 12 05:07	24° <b>©</b> 17'50	10.54074 AU	retrograde	7425 Jan 17 17:29	10° <b>≙</b> 13'24	
morning rise	7419 Jul 29 10:12	26°ණ24'40		opposition	7425 Mar 26 07:09	6° <b>≏</b> 46'28	1°06'58
	7419 Aug 30 03:39	$0^{\circ}\Omega$		min. Earth dist.	7425 Mar 26 08:40	6° <b>≏</b> 46'10	8.25145 AU
retrograde	7419 Nov 11 22:37	4° <b>Ω</b> 11'16		direct	7425 Jun 01 14:48	3° <b>₽</b> 19'53	
opposition	7420 Jan 20 09:38	0° <b>Ω</b> 45'27	-1°36'45	evening set	7425 Sep 13 09:25	11° <b>≏</b> 15'53	
min. Earth dist.	7420 Jan 20 05:20	0°Ω46'17	8.50842 AU	C	1		
	7420 Jan 30 03:11	30°Rூ		conjunction	7425 Oct 01 08:34	13° <b>≏</b> 31'57	1°06'25
direct	7420 Mar 28 00:37	27°523'32		minimum elong	7425 Oct 01 08:31	13° <b>⊆</b> 31'56	1°06'27
direct	7420 May 22 12:11	0°Ω		max. Earth dist.	7425 Oct 01 05:50		10.24107 AU
evening set	7420 Jul 06 19:39	4° <b>Ω</b> 53'40		morning rise	7425 Oct 01 03:50 7425 Oct 19 07:56	15° <b>⊆</b> 48'07	10.24107 AU
evening set	/420 Jul 00 19.39	4 6633 40		•			
	7420 1 1 24 07 20	70 002100	1007120	retrograde	7426 Jan 31 14:16	23° <b>£</b> 47'05	1027100
conjunction	7420 Jul 24 06:29	7° <b>Ω</b> 03'00		opposition	7426 Apr 08 21:56	20° <b>£</b> 20'27	
minimum elong	7420 Jul 24 06:31	7° <b>Ω</b> 03'01		min. Earth dist.	7426 Apr 08 23:51	20° <b>£</b> 20'04	8.23566 AU
max. Earth dist.	7420 Jul 24 11:51		10.47548 AU	direct	7426 Jun 15 10:11	16° <b>≙</b> 53'09	
morning rise	7420 Aug 10 21:04	9° <b>Ω</b> 13'31		evening set	7426 Sep 27 20:34	24° <b>£</b> 52'38	
	7420 Oct 05 07:04	15° <b>Ω</b>					
retrograde	7420 Nov 24 12:20	17° <b>Ω</b> 04'04		conjunction	7426 Oct 15 19:16	27° <b>≏</b> 08'43	1°28'37
	7421 Jan 14 17:34	15°R <b>Ω</b>		minimum elong	7426 Oct 15 19:13	27° <b>≏</b> 08'42	1°28'40
opposition	7421 Feb 01 13:45	13° <b>Ω</b> 37'42	-1°08'28	max. Earth dist.	7426 Oct 15 16:02	27° <b>♀</b> 07'41	10.23316 AU
min. Earth dist.	7421 Feb 01 09:50	13° <b>Ω</b> 38′28	8.44373 AU	morning rise	7426 Nov 02 17:04	29° <b>£</b> 24'34	
direct	7421 Apr 09 23:16	10° <b>Ω</b> 14'53			7426 Nov 07 11:33	0°M	
	7421 Jun 25 21:53	15° <b>Ω</b>		retrograde	7427 Feb 14 11:01	7°M21'53	
evening set	7421 Jul 20 05:12	17° <b>Ω</b> 50'07		opposition	7427 Apr 22 13:31	3°M55'43	2°01'40
evening sec	7 121 341 20 03.12	17 003007		min. Earth dist.	7427 Apr 22 15:55	3°M55'14	8.23650 AU
agniumation	7421 Aug 06 10:50	20° <b>Ω</b> 01'22	0942150		7427 Apr 22 15:55 7427 Jun 29 06:56	0°M27'54	0.23030 AC
conjunction	7421 Aug 06 19:59			direct			
minimum elong	7421 Aug 06 20:01	20° <b>Ω</b> 01′23		evening set	7427 Oct 12 07:52	8°M29'26	
max. Earth dist.	7421 Aug 07 00:05		10.41252 AU		<b>7.07</b> 0	10044 /	1045:
morning rise	7421 Aug 24 14:10	22° <b>Ω</b> 13'42		conjunction	7427 Oct 30 05:12	10°M45'03	1°45'52
	7421 Nov 26 03:36	0° <b>m</b> ∕		minimum elong	7427 Oct 30 05:09	10°M45'02	1°45'56
retrograde	7421 Dec 08 04:28	0° <b>m</b> ,07'38		max. Earth dist.	7427 Oct 30 01:10	10°M43'46	10.24201 AU
	7421 Dec 20 05:40	$30^{\circ}$ R $\Omega$		morning rise	7427 Nov 17 00:40	13°M00'09	
opposition	7422 Feb 14 20:31	26° <b>Ω</b> 40′50	-0°36'15		7427 Dec 03 12:17	15°M	
min. Earth dist.	7422 Feb 14 17:47	26° <b>Ω</b> 41′23	8.38257 AU	retrograde	7428 Feb 28 05:59	20°M54'35	
direct	7422 Apr 23 02:37	23° <b>Ω</b> 17'03		opposition	7428 May 05 04:59	17°M29'03	2°19'29
	•				•		

min. Earth dist.	7428 May 05 08:17	17° <b>M</b> .28'23	8.25386 AU	retrograde	7434 May 16 07:39	9° <b>≈</b> 11'54	
	7428 Jun 08 12:40	15°RM₀		opposition	7434 Jul 23 10:19	5° <b>≈</b> 51'15	1°26'21
direct	7428 Jul 12 05:16	14°ML00'55		min. Earth dist.	7434 Jul 23 13:24	5° <b>≈</b> 50'40	8.59118 AU
	7428 Aug 14 19:26	15° <b>M</b> ₊		direct	7434 Oct 01 12:46	2° <b>≈</b> 26′01	
evening set	7428 Oct 25 17:36	22°M02'59		evening set	7435 Jan 14 07:42	10° <b>≈</b> 04'18	
conjunction	7428 Nov 12 12:52	24° <b>M</b> .17'42	1°57'12	conjunction	7435 Jan 31 11:54	12° <b>≈</b> 10′11	0°58'32
minimum elong	7428 Nov 12 12:50	24°M17'41	1°57'16	minimum elong	7435 Jan 31 11:56	12° <b>≈</b> 10′11	0°58'37
max. Earth dist.	7428 Nov 12 07:45	24°M16'05	10.26702 AU	max. Earth dist.	7435 Jan 31 08:23	12° <b>≈</b> 09'06	10.62501 AU
morning rise	7428 Nov 30 05:35	26°M31'41		morning rise	7435 Feb 17 12:42	14° <b>≈</b> 15′03	
	7428 Dec 29 21:36	0° <b>∡</b> ¹			7435 Feb 23 19:32	15° <b>≈</b>	
retrograde	7429 Mar 12 20:01	4° <b>∡</b> ¹22'07		retrograde	7435 May 28 21:30	21° <b>≈</b> 35'36	
opposition	7429 May 18 19:24	0° <b>≯</b> 57'22	2°29'29	opposition	7435 Aug 05 09:37	18° <b>≈</b> 15'36	
min. Earth dist.	7429 May 18 23:43	0° <b>≯</b> 56'30	8.28657 AU	min. Earth dist.	7435 Aug 05 12:13	18° <b>≈</b> 15′06	8.65817 AU
	7429 May 30 19:50	30°RM₁			7435 Oct 01 14:02	15°R≈	
direct	7429 Jul 26 05:21	27°M29'07		direct	7435 Oct 14 16:27	14°≈51'23	
evening set	7429 Sep 19 05:54 7429 Nov 08 23:39	0° <b>∡</b> ¹ 5° <b>∡</b> ³30'08		evening set	7435 Oct 27 19:13 7436 Jan 26 23:07	15° <b>≈</b> 22° <b>≈</b> 24'01	
evening set	7429 NOV 08 23.39	3 × 30 00		evening set	7430 Jan 20 23.07	22 ≈2401	
conjunction	7429 Nov 26 16:27	7° <b>∡</b> ¹43'38	2°02'02	conjunction	7436 Feb 13 00:58	24° <b>≈</b> 28′27	0°34'14
minimum elong	7429 Nov 26 16:27	7° <b>∡</b> ¹43'38	2°02'07	minimum elong	7436 Feb 13 00:59	24° <b>≈</b> 28′28	0°34'18
max. Earth dist.	7429 Nov 26 10:21		10.30659 AU	max. Earth dist.	7436 Feb 12 22:06	24° <b>≈</b> 27'35	10.68983 AU
morning rise	7429 Dec 14 06:13	9° <b>∡</b> 756'13		morning rise	7436 Feb 29 23:57	26°≈32'02	
retrograde	7430 Mar 26 05:56	17° 🗷 41'53	2021117	. 1	7436 Apr 01 01:51	0° <b>∺</b> 3° <b>∺</b> 49'17	
opposition	7430 Jun 01 08:19	14° 🖈 17'58	2°31'17	retrograde	7436 Jun 09 08:46		0027140
min. Earth dist.	7430 Jun 01 13:06	14° <b>₹</b> 17'00 10° <b>₹</b> 49'53	8.33258 AU	opposition min. Earth dist.	7436 Aug 17 06:18	0° <b>∺</b> 29'45 0° <b>∺</b> 29'29	0°26'40 8.71964 AU
direct evening set	7430 Aug 09 04:03 7430 Nov 23 00:12	10 <b>x</b> ·49 33 18° <b>x</b> 48'15		IIIII. Eartii dist.	7436 Aug 17 07:40 7436 Aug 23 19:16	0 K2929 30°R≈	8./1904 AU
evening set	7430 NOV 23 00.12	10 🗡 40 13		direct	7436 Oct 26 17:37	27°≈06'36	
conjunction	7430 Dec 10 14:23	21° <b>х</b> 00'20	2°00'18	direct	7436 Dec 26 12:54	0° <b>∺</b>	
minimum elong	7430 Dec 10 14:24	21°× 00'20	2°00'23	evening set	7437 Feb 07 09:10	4° <b>)</b> 33'55	
max. Earth dist.	7430 Dec 10 08:04		10.35835 AU	evening sec	7137160 07 07.10	1 7(33 33	
morning rise	7430 Dec 28 01:11	23° <b>х</b> 11'22		conjunction	7437 Feb 24 08:49	6° <b>)</b> 37′02	0°08'42
S	7431 Mar 08 13:00	ರ°0		minimum elong	7437 Feb 24 08:49	6° <b>)</b> 37′02	0°08'44
retrograde	7431 Apr 08 12:20	0° <b>る</b> 51'46		behind sun begin	7437 Feb 24 02:42	6° <b>)</b> 35′12	
	7431 May 09 21:38	30°R <b>✓</b>		behind sun end	7437 Feb 24 14:56	6° <b>)</b> 38′52	
opposition	7431 Jun 14 18:59	27° <b>∡</b> ¹28'41	2°25'02	max. Earth dist.	7437 Feb 24 07:34	6° <b>)</b> 36′40	10.74759 AU
min. Earth dist.	7431 Jun 14 23:17	27° <b>∡</b> ¹27'50	8.38922 AU	morning rise	7437 Mar 13 06:00	8° <b>∺</b> 39'25	
direct	7431 Aug 23 00:00	24° <b>₰</b> 01'01		retrograde	7437 Jun 21 19:26	15° <b>)</b> 54′22	
	7431 Nov 20 15:25	0°₹		desc. node	7437 Jun 30 20:30	15° <b>∺</b> 50′09	
evening set	7431 Dec 06 18:25	1° <b>る</b> 55'26		opposition	7437 Aug 30 00:39	12° <b>)</b> ₹35'07	
		_		min. Earth dist.	7437 Aug 30 00:24		8.77292 AU
conjunction	7431 Dec 24 06:06	4°₹06'00	1°52'18	direct	7437 Nov 08 12:29	9° <b>)</b> 13′01	
minimum elong	7431 Dec 24 06:08	4° <b>る</b> 06'00	1°52'23	evening set	7438 Feb 19 14:46	16° <b>)</b> ₹35'33	
max. Earth dist.	7431 Dec 24 00:34	4°804'16 6°815'26	10.41944 AU	:	7420 M 00 12-21	100W27I20	0917105
morning rise retrograde	7432 Jan 10 14:02 7432 Apr 20 14:39	13°る50'20		conjunction minimum elong	7438 Mar 08 12:21 7438 Mar 08 12:21	18° <b>升</b> 37'30 18° <b>升</b> 37'30	
opposition	7432 Jun 27 02:51	19 <b>3</b> 30 20	2°11'24	max. Earth dist.	7438 Mar 08 12:59		10.79589 AU
min. Earth dist.	7432 Jun 27 06:28	10° <b>る</b> 27'24	8.45343 AU	morning rise	7438 Mar 25 07:56	20° <b>H</b> 38'55	10.75057110
direct	7432 Sep 04 16:31	7° <b>る</b> 01'05	0.103.3710	retrograde	7438 Jul 04 03:58	27° <b>)</b> 52'33	
evening set	7432 Dec 19 05:46	14° <b>る</b> 50'36		opposition	7438 Sep 11 17:09	24° <b>)</b> €33'24	-0°36'13
C				min. Earth dist.	7438 Sep 11 16:02		8.81589 AU
conjunction	7433 Jan 05 14:59	16° <b>る</b> 59'36	1°38'41	direct	7438 Nov 21 03:17	21° <b>)</b> 12′15	
minimum elong	7433 Jan 05 15:02	16° <b>る</b> 59'36	1°38'47	evening set	7439 Mar 03 16:51	28° <b>)</b> € 30'44	
max. Earth dist.	7433 Jan 05 10:29	16° <b>පි</b> 58'11	10.48653 AU		7439 Mar 16 03:23	$0^{\circ}\mathbf{\Upsilon}$	
morning rise	7433 Jan 22 20:14	19° <b>る</b> 07'26					
retrograde	7433 May 03 12:56	26° <b>る</b> 37'02		conjunction	7439 Mar 20 12:28	0° <b>Υ</b> 31'42	
opposition	7433 Jul 10 08:00	23° <b>云</b> 15'38	1°51'25	minimum elong	7439 Mar 20 12:27	0° <b>Υ</b> 31'42	
min. Earth dist.	7433 Jul 10 11:08	23°る15'01	8.52186 AU	max. Earth dist.	7439 Mar 20 13:48		10.83280 AU
direct	7433 Sep 18 05:06	19°る49'25		morning rise	7439 Apr 06 06:54	2° <b>Υ</b> 32'22	
evening set	7434 Jan 01 10:05	27° <b>る</b> 33'27		retrograde	7439 Jul 16 12:03	9° <b>Y</b> 45'44	1005125
aoniumatiam	7/2/ Jan 10 16:47	200=40152	1920125	opposition	7439 Sep 24 08:10	6° <b>Y</b> 26'31 6° <b>Y</b> 26'47	
conjunction minimum elong	7434 Jan 18 16:47 7434 Jan 18 16:49	29°る40'52 29°る40'52	1°20'25 1°20'29	min. Earth dist. direct	7439 Sep 24 06:42 7439 Dec 03 16:04	3° <b>Υ</b> 06'08	8.84675 AU
max. Earth dist.	7434 Jan 18 13:08		1 20 29 10.55616 AU	evening set	7440 Mar 14 16:34	$10^{\circ}$ <b>Y</b> 21'25	
max. Zurur dist.	7434 Jan 21 06:38	29 <b>⊙</b> 39 44	10.55010 AU	o coming soc	, 110 11101 17 10.57	10   2123	
morning rise	7434 Feb 04 19:36	0 <b>~</b> 1° <b>≈</b> 47'09		conjunction	7440 Mar 31 10:29	12° <b>Y</b> 21'40	-1°04'39
		, 0)		j <del></del>		. 21 .0	· · <del>· ·</del> ·

	7440 M 21 10-27	12° <b>Ƴ</b> 21'39 1°04'41		7446 I 10 10-26	220T52I50 1050I20
minimum elong	7440 Mar 31 10:27		minimum elong	7446 Jun 10 19:26	23°II52'58 1°59'39
max. Earth dist.	7440 Mar 31 12:06	12° <b>Υ</b> 22'09 10.85673		7446 Jun 11 00:17	23° <b>II</b> 54'27 10.69790 AU
morning rise	7440 Apr 17 04:09	14° <b>Y</b> 21'49	morning rise	7446 Jun 27 20:37	25° <b>耳</b> 56′59
retrograde	7440 Jul 27 19:02	21° <b>Y</b> 35'54		7446 Aug 03 19:38	0ං <b>ම</b>
opposition	7440 Oct 05 22:06	18° <b>Y</b> 16′25 -1°32′00	retrograde	7446 Oct 10 15:14	3° <b>©</b> 32'18
min. Earth dist.	7440 Oct 05 20:05	18° <b>Y</b> 16'47 8.86404	11	7446 Dec 19 19:37	0°908'11 -2°22'29
direct	7440 Dec 15 01:48	14° <b>Ƴ</b> 56'40	min. Earth dist.	7446 Dec 19 15:22	0°508'59 8.66714 AU
evening set	7441 Mar 26 14:46	22° <b>Y</b> 09'39		7446 Dec 21 14:10	30°RⅡ
			direct	7447 Feb 26 04:25	26° <b>Ⅱ</b> 47'52
conjunction	7441 Apr 12 07:34	24° <b>Y</b> ′09'27 -1°24'40		7447 Apr 29 17:49	0ං <b>ව</b>
minimum elong	7441 Apr 12 07:32	24° <b>Y</b> 09'26 1°24'43	evening set	7447 Jun 06 09:31	4° <b>©</b> 07'27
max. Earth dist.	7441 Apr 12 10:12	24° <b>Y</b> 10'14 10.86647	AU		
morning rise	7441 Apr 29 00:48	26° <b>Y</b> 09′22	conjunction	7447 Jun 23 10:34	6°912'05 -1°50'46
	7441 Jun 03 13:44	0° <b>႘</b>	minimum elong	7447 Jun 23 10:36	6°\$12'05 1°50'53
retrograde	7441 Aug 09 03:14	3° <b>8</b> 25'11	max. Earth dist.	7447 Jun 23 15:50	6°\$13'41 10.63254 AU
opposition	7441 Oct 18 11:37	0° <b>8</b> 05'12 -1°54'29	morning rise	7447 Jul 10 15:18	8°917'51
min. Earth dist.	7441 Oct 18 08:22	0° <b>8</b> 05'49 8.86660	AU retrograde	7447 Oct 23 19:07	15°958'00
	7441 Oct 19 15:27	30° <b>₹</b> Υ	opposition	7448 Jan 01 17:15	12°532'55 -2°08'30
direct	7441 Dec 27 10:55	26° <b>Ƴ</b> 45'55	min. Earth dist.	7448 Jan 01 12:50	12°533'46 8.59893 AU
	7442 Mar 01 17:12	0° <b>႘</b>	direct	7448 Mar 09 18:27	9° <b>9</b> 11'50
evening set	7442 Apr 07 12:26	3° <b>8</b> 57'33	evening set	7448 Jun 18 02:50	16° <b>©</b> 35'24
C	•		Č		
conjunction	7442 Apr 24 04:47	5° <b>8</b> 57'14 -1°41'06	conjunction	7448 Jul 05 07:36	18°9541'55 -1°36'41
minimum elong	7442 Apr 24 04:45	5° <b>8</b> 57'14 1°41'09	minimum elong	7448 Jul 05 07:38	18° <b>©</b> 41'55 1°36'47
max. Earth dist.	7442 Apr 24 08:48	5° <b>8</b> 58'27 10.86094	=	7448 Jul 05 12:07	18° <b>©</b> 43'18 10.56282 AU
morning rise	7442 May 10 22:06	7° <b>8</b> 57'15	morning rise	7448 Jul 22 16:21	20°549'39
5 5	7442 Aug 03 19:50	15° <b>8</b>	retrograde	7448 Nov 05 03:30	28°934'30
retrograde	7442 Aug 21 15:41	15° <b>8</b> 15'43	opposition	7449 Jan 13 17:36	25°\$08'33 -1°48'09
Totalogrado	7442 Sep 08 13:06	15°R <b>8</b>	min. Earth dist.	7449 Jan 13 13:57	25°509'16 8.52788 AU
opposition	7442 Oct 31 01:12	11° <b>8</b> 55'07 -2°12'10	direct	7449 Mar 22 11:01	21°5646'33
min. Earth dist.	7442 Oct 30 21:14	11° <b>8</b> 55'51 8.85348		7449 Jul 01 02:34	29° <b>©</b> 14'45
direct	7442 Get 30 21:14 7443 Jan 08 18:14	8° <b>8</b> 36'04	rto evening set	7449 Jul 07 06:29	0°Ω
uncer	7443 Apr 12 16:39	15° <b>8</b>		744) Jul 07 00.2)	0 00
evening set	7443 Apr 19 11:02	15° <b>8</b> 47'25	conjunction	7449 Jul 18 11:23	1°Ω23'16 -1°17'43
evening set	7443 Apr 19 11.02	13 047 23	minimum elong	7449 Jul 18 11:25	1°Ω23'17 1°17'49
agniumation	7442 May 06 02:20	17° <b>8</b> 47'22 -1°53'17	max. Earth dist.	7449 Jul 18 11:23	1°Ω24'21 10.49196 AU
conjunction	7443 May 06 03:30	17° <b>8</b> 47'22 1°53'20			3° <b>Ω</b> 33'03
minimum elong	7443 May 06 03:29 7443 May 06 07:38	17°848'37 10.83973	morning rise	7449 Aug 05 00:19 7449 Nov 18 14:42	
max. Earth dist.	,	17° <b>8</b> 48°37 10.83973 19° <b>8</b> 47'52			11° <b>Ω</b> 22'14 7° <b>Ω</b> 55'34 -1°22'09
morning rise	7443 May 22 21:40		opposition	7450 Jan 26 20:33	
retrograde	7443 Sep 03 04:30	27° <b>8</b> 09'45	min. Earth dist.	7450 Jan 26 17:56	7°Ω56'05 8.45733 AU
opposition	7443 Nov 12 15:25	23° <b>8</b> 48'26 -2°24'18	direct	7450 Apr 04 08:15	4° <b>Ω</b> 32'33
min. Earth dist.	7443 Nov 12 11:34	23° <b>8</b> 49'10 8.82495	AU evening set	7450 Jul 14 08:59	12° <b>Ω</b> 05'55
direct	7444 Jan 20 23:13	20° <b>8</b> 29'24	. ,.	7450 1 1 21 21 57	1.40.01.6100
evening set	7444 Apr 30 11:31	27° <b>8</b> 41'33	conjunction	7450 Jul 31 21:57	14° <b>Ω</b> 16'29 -0°54'38
	544434 15 04 45	2001442107 2000120	minimum elong	7450 Jul 31 21:59	14°Ω16'29 0°54'42
conjunction	7444 May 17 04:47	29° <b>8</b> 42'07 -2°00'39	max. Earth dist.	7450 Aug 01 00:42	14°Ω17'20 10.42318 AU
minimum elong	7444 May 17 04:47	29° <b>8</b> 42'07 2°00'44		7450 Aug 06 17:22	15° <b>Ω</b>
max. Earth dist.	7444 May 17 08:22	29° <b>8</b> 43'12 10.80401	_	7450 Aug 18 14:46	16° <b>Ω</b> 28'12
	7444 May 19 15:53	0°П	retrograde	7450 Dec 02 04:27	24° <b>Ω</b> 21'16
morning rise	7444 Jun 03 00:39	1° <b>Ⅱ</b> 43′28	opposition	7451 Feb 09 02:17	20° <b>Ω</b> 54'01 -0°51'34
retrograde	7444 Sep 14 19:54	9° <b>Ⅱ</b> 09'28	min. Earth dist.	7451 Feb 09 00:22	20° <b>Ω</b> 54'24 8.39058 AU
opposition	7444 Nov 24 07:08	5° <b>Ⅱ</b> 47'18 -2°30'19	direct	7451 Apr 17 10:58	17° <b>Ω</b> 29'59
min. Earth dist.	7444 Nov 24 03:41	5° <b>I</b> 47'57 8.78280	AU evening set	7451 Jul 27 22:16	25° <b>Ω</b> 08'48
direct	7445 Feb 01 07:45	2° <b>Ⅲ</b> 28′03			
evening set	7445 May 12 14:37	9° <b>Ⅱ</b> 41'51	conjunction	7451 Aug 14 15:03	27°Ω21'16 -0°28'26
		_	minimum elong	7451 Aug 14 15:04	27° <b>Ω</b> 21'17 0°28'28
conjunction	7445 May 29 09:41	11° <b>Ⅱ</b> 43'26 -2°02'50	max. Earth dist.	7451 Aug 14 17:31	27° <b>Ω</b> 22'03 10.35976 AU
minimum elong	7445 May 29 09:41	11° <b>II</b> 43'27 2°02'55	morning rise	7451 Sep 01 11:02	29° <b>Ω</b> 34'45
max. Earth dist.	7445 May 29 13:38	11° <b>II</b> 44'38 10.75594		7451 Sep 04 21:38	0° <b>m</b>
morning rise	7445 Jun 15 07:55	13° <b>Ⅱ</b> 45'58	retrograde	7451 Dec 15 22:45	7° <b>m</b> 31'01
retrograde	7445 Sep 27 15:53	21° <b>Ⅱ</b> 16′32	opposition	7452 Feb 22 10:44	4° Mp 03'23 -0°17'49
opposition	7445 Dec 07 00:28	17° <b>I</b> 53′24 -2°29′47	min. Earth dist.	7452 Feb 22 09:00	4° Mp 03'44 8.33102 AU
min. Earth dist.	7445 Dec 06 20:45	17° <b>I</b> I54′06 8.72936	AU direct	7452 Apr 29 16:29	0° Mp 38′22
direct	7446 Feb 13 17:23	14° <b>Ⅱ</b> 33'43	evening set	7452 Aug 09 18:22	8° <b>m</b> 22'43
evening set	7446 May 24 21:40	21° <b>Ⅱ</b> 49′59			
			conjunction	7452 Aug 27 14:16	$10^{\circ}$ <b>M</b> $36'49 - 0^{\circ}00'25$
conjunction	7446 Jun 10 19:25	23° <b>Ⅱ</b> 52'57 -1°59'33	minimum elong	7452 Aug 27 14:16	10° m 36'49 0°00'26

	7452 4 27 07-01	100 m 24122		3:4	7459 1-1 20 06-59	21°M39'25	
behind sun begin	7452 Aug 27 07:01	10° Mp 34'33		direct	7458 Jul 20 06:58		
behind sun end	7452 Aug 27 21:32	10° m 39'05	10.20500 ATT	evening set	7458 Nov 02 22:30	29°M41'43	
max. Earth dist.	7452 Aug 27 16:06	10° m 37'20	10.30508 AU		7458 Nov 05 09:16	0° <b>∡</b> 7	
asc. node	7452 Sep 01 20:55	11° <b>m</b> 16'48					
morning rise	7452 Sep 14 12:34	12° <b>m</b> 51'44		conjunction	7458 Nov 20 16:36	1° <b>₹</b> '55'55	
retrograde	7452 Dec 28 19:54	20° <b>m</b> 50'19		minimum elong	7458 Nov 20 16:35	1° <b>₹</b> 55'54	2°00'36
opposition	7453 Mar 06 21:39	17° <b>m</b> 22'31	0°17'19	max. Earth dist.	7458 Nov 20 12:41		10.28476 AU
min. Earth dist.	7453 Mar 06 20:26	17° <b>m</b> 22'46	8.28196 AU	morning rise	7458 Dec 08 07:44	4° <b>₰</b> 09'16	
direct	7453 May 13 01:50	13° <b>m</b> 56'35		retrograde	7459 Mar 20 15:29	11° <b>∡</b> 57'49	
evening set	7453 Aug 23 20:38	21°Mp46'19		opposition	7459 May 26 15:29	8° <b>∡</b> ³33'47	2°31'17
				min. Earth dist.	7459 May 26 18:16	8° <b>₮</b> 33'14	8.30993 AU
conjunction	7453 Sep 10 18:40	24° Mp 01'40	0°27'56	direct	7459 Aug 03 05:16	5° <b>∡</b> 06'01	
minimum elong	7453 Sep 10 18:39	24° Mp 01'39	0°27'56	evening set	7459 Nov 17 02:25	13° <b>∡</b> 06′13	
max. Earth dist.	7453 Sep 10 19:03	24° Mp 01'47	10.26221 AU				
morning rise	7453 Sep 28 18:17	26° Mp 17'33		conjunction	7459 Dec 04 18:00	15° <b>∡</b> 19'04	2°01'43
	7453 Oct 30 16:29	0∘ <b>ত</b>		minimum elong	7459 Dec 04 18:00	15° <b>∡</b> 19'04	2°01'48
retrograde	7454 Jan 11 17:54	4° <b>£</b> 17'25		max. Earth dist.	7459 Dec 04 14:00	15° <b>∡</b> 17'49	10.33518 AU
opposition	7454 Mar 20 10:49	0° <b>ჲ</b> 49'44	0°51'53	morning rise	7459 Dec 22 06:03	17° <b>∡</b> ³30'53	
min. Earth dist.	7454 Mar 20 10:44	0° <b>£</b> 49'45	8.24616 AU	retrograde	7460 Apr 02 01:36	25° <b>∡</b> 14'12	
	7454 Mar 30 18:17	30°R, M⊅		opposition	7460 Jun 08 03:54	21° <b>×</b> 751'09	2°28'34
direct	7454 May 26 16:20	27° m 22'58		min. Earth dist.	7460 Jun 08 07:24	21° <b>х</b> 50'28	8.36573 AU
	7454 Jul 20 23:28	0° <b>⊽</b>		direct	7460 Aug 16 02:13	18° <b>₹</b> 23'47	0.50575110
evening set	7454 Sep 07 03:54	∘ <b>–</b> 5° <b>Ω</b> 17'37		evening set	7460 Nov 30 00:31	26° × 20'28	
evening set	7434 БСР 07 03.34	3 =1737		evening set	7400 NOV 30 00.31	20 × 20 20	
conjunction	7454 Sep 25 02:54	7° <b>£</b> 33'42	0°54'55	conjunction	7460 Dec 17 13:24	28° <b>∡</b> ³31'47	1°56'26
minimum elong		7° <b>⊆</b> 33'41	0°54'56	minimum elong	7460 Dec 17 13:24 7460 Dec 17 13:26	28° 🗷 31'47 28° 🗷 31'47	1°56'31
_	7454 Sep 25 02:52			_			
max. Earth dist.	7454 Sep 25 01:34	9° <b>£</b> 50'02	10.23364 AU	max. Earth dist.	7460 Dec 17 08:36	28°×'30'16	10.39562 AU
morning rise	7454 Oct 13 02:38				7460 Dec 29 06:59		
retrograde	7455 Jan 25 15:49	17° <b>£</b> 50'02	1022140	morning rise	7461 Jan 03 22:33	0°る41'59	
opposition	7455 Apr 03 01:36	14° <b>£</b> 22'45	1°23'48	retrograde	7461 Apr 15 05:53	8°る19'39	201010
min. Earth dist.	7455 Apr 03 02:50	14° <b>£</b> 22'30	8.22584 AU	opposition	7461 Jun 21 13:40	4°る57'33	2°18'07
direct	7455 Jun 09 10:14	10° <b>£</b> 55′20		min. Earth dist.	7461 Jun 21 17:54	4°る56'43	8.42946 AU
evening set	7455 Sep 21 14:29	18° <b>≏</b> 53'58		direct	7461 Aug 29 21:22	1° <b>る</b> 30'43	
				evening set	7461 Dec 13 15:44	9° <b>る</b> 22'48	
conjunction	7455 Oct 09 13:25	21° <b>♀</b> 10'17	1°18'58				
						—	
minimum elong	7455 Oct 09 13:22	21° <b>≏</b> 10'16	1°19'00	conjunction	7461 Dec 31 01:57	11° <b>云</b> 32'30	1°45'13
max. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32	21° <b>ჲ</b> 10′16 21° <b>ჲ</b> 09′22		minimum elong	7461 Dec 31 01:59	11° <b>る</b> 32'31	1°45'18
-	7455 Oct 09 13:22	21° <b>Ω</b> 10'16 21° <b>Ω</b> 09'22 23° <b>Ω</b> 26'33	1°19'00	minimum elong max. Earth dist.		11°ටි32'31 11°ටි30'44	
max. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32	21° <b>\Omega</b> 10'16 21° <b>\Omega</b> 09'22 23° <b>\Omega</b> 26'33 0° <b>M</b> .	1°19'00	minimum elong	7461 Dec 31 01:59	11° ට 32'31 11° ට 30'44 13° ට 41'04	1°45'18
max. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12	21° <b>Ω</b> 10'16 21° <b>Ω</b> 09'22 23° <b>Ω</b> 26'33	1°19'00	minimum elong max. Earth dist. morning rise retrograde	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55	11° ට 32'31 11° ට 30'44 13° ට 41'04 21° ට 13'14	1°45'18 10.46196 AU
max. Earth dist. morning rise	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04	21° <b>\Omega</b> 10'16 21° <b>\Omega</b> 09'22 23° <b>\Omega</b> 26'33 0° <b>M</b> .	1°19'00	minimum elong max. Earth dist. morning rise	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26	11° ට 32'31 11° ට 30'44 13° ට 41'04	1°45'18 10.46196 AU
max. Earth dist. morning rise	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18	21° \( \Omega\) 10'16 21° \( \Omega\) 09'22 23° \( \Omega\) 26'33 0° \( \mathrm{M}\) 1° \( \mathrm{M}\) 25'27	1°19'00	minimum elong max. Earth dist. morning rise retrograde	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08	1°45'18 10.46196 AU
max. Earth dist. morning rise retrograde	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04	21° \$\Delta\$ 10'16 21° \$\Delta\$ 09'22 23° \$\Delta\$ 26'33 0° \$\mathbb{N}\$ 1° \$\mathbb{N}\$ 25'27 30° \$\mathbb{R}\$ \$\Delta\$	1°19′00 10.22132 AU	minimum elong max. Earth dist. morning rise retrograde opposition	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37	11° ට 32'31 11° ට 30'44 13° ට 41'04 21° ට 13'14 17° ට 51'59	1°45'18 10.46196 AU 2°00'48
max. Earth dist. morning rise retrograde opposition	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26	21° \( \Omega\) 10'16 21° \( \Omega\) 09'22 23° \( \Omega\) 26'33 0° \( \mathrea\) 1° \( \mathrea\) 25'27 30° \( \mathrea\)	1°19'00 10.22132 AU 1°51'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08	1°45'18 10.46196 AU 2°00'48
max. Earth dist. morning rise retrograde opposition min. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39	21° \$\Omega\$10'16 21° \$\Omega\$09'22 23° \$\Omega\$26'33 0° \$\mathbb{M}\$ 1° \$\mathbb{M}\$25'27 30° \$\mathbb{A}\$ 27° \$\Omega\$58'46 27° \$\Omega\$58'19	1°19'00 10.22132 AU 1°51'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08 14° る25'51	1°45'18 10.46196 AU 2°00'48
max. Earth dist. morning rise retrograde opposition min. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16	21° \$\Omega\$ 10'16 21° \$\Omega\$ 09'22 23° \$\Omega\$ 26'33 0° \$\mathbb{M}\$ 1° \$\mathbb{M}\$ 25'27 30° \$\mathbb{A}\$ \Omega\$ 27° \$\Omega\$ 58'46 27° \$\Omega\$ 58'19 24° \$\Omega\$ 30'55	1°19'00 10.22132 AU 1°51'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08 14° る25'51	1°45'18 10.46196 AU 2°00'48
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Jun 22 07:16 7456 Sep 13 22:47	21° \( \Omega\) 10'16 21° \( \Omega\) 09'22 23° \( \Omega\) 26'33 0° \( \mathbb{M}\) 1° \( \mathbb{M}\) 25'27 30° \( \mathbb{R}\) \( \Omega\) 27° \( \Omega\) 58'19 24° \( \Omega\) 30'55 0° \( \mathbb{M}\)	1°19'00 10.22132 AU 1°51'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08 14° る25'51 22° る12'40	1°45'18 10.46196 AU 2°00'48 8.49678 AU
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Jun 22 07:16 7456 Sep 13 22:47	21° \( \Omega\) 10'16 21° \( \Omega\) 09'22 23° \( \Omega\) 26'33 0° \( \mathbb{M}\) 1° \( \mathbb{M}\) 25'27 30° \( \mathbb{R}\) \( \Omega\) 27° \( \Omega\) 58'19 24° \( \Omega\) 30'55 0° \( \mathbb{M}\)	1°19'00 10.22132 AU 1°51'08	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35 7463 Jan 13 07:19	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08 14° る25'51 22° る12'40 24° る20'47 24° る20'48	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53
max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Sep 13 22:47 7456 Oct 05 02:26	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathbb{M} \) 1° \( \mathbb{M} 25'27 \) 30° \( \mathbb{A} \) 27° \( \Omega 58'46 \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathbb{M} \) 2° \( \mathbb{M} 32'20 \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35 7463 Jan 13 07:19 7463 Jan 13 07:21	11° る32'31 11° る30'44 13° る41'04 21° る13'14 17° る51'59 17° る51'08 14° る25'51 22° る12'40 24° る20'47 24° る20'48	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58
max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Sep 13 22:47 7456 Oct 05 02:26	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathred{\text{M}} \) 1° \( \mathred{\text{M}} \) 25'27 30° \( \Omega \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathred{\text{M}} \) 2° \( \mathred{\text{M}} \) 32'20 4° \( \mathred{\text{M}} \) 48'22 4° \( \mathred{\text{M}} \) 48'22	1°19'00 10.22132 AU 1°51'08 8.22241 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41	11° 532'31 11° 530'44 13° 541'04 21° 513'14 17° 551'59 17° 551'08 14° 525'51 22° 512'40 24° 520'47 24° 520'48 24° 519'02	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58
max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Sep 13 22:47 7456 Oct 05 02:26 7456 Oct 23 00:26 7456 Oct 23 00:24	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathred{\text{M}} \) 1° \( \mathred{\text{M}} \) 25'27 30° \( \Omega \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathred{\text{M}} \) 2° \( \mathred{\text{M}} \) 32'20 4° \( \mathred{\text{M}} \) 48'22 4° \( \mathred{\text{M}} \) 48'22	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23	11° 532'31 11° 530'44 13° 541'04 21° 513'14 17° 551'59 17° 551'08 14° 525'51 22° 512'40 24° 520'47 24° 520'48 24° 519'02 26° 527'48	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58
max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Oct 05 02:26 7456 Oct 23 00:26 7456 Oct 23 00:24 7456 Oct 22 20:42	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathred{m} \) 1° \( \mathred{m} 25'27 \) 30° \( \Omega \) 27° \( \Omega 58'46 \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathred{m} \) 2° \( \mathred{m} 32'20 \) 4° \( \mathred{m} 48'22 \) 4° \( \mathred{m} 48'22 \) 4° \( \mathred{m} 44'21 \) 4° \( \mathred{m} 44'11 \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23 7463 Mar 02 15:49	11° 332'31 11° 330'44 13° 341'04 21° 313'14 17° 351'59 17° 351'08 14° 325'51 22° 312'40 24° 320'47 24° 320'48 24° 319'02 26° 327'48 0° ※	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58
max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Oct 05 02:26 7456 Oct 23 00:26 7456 Oct 23 00:24 7456 Oct 22 20:42 7456 Nov 09 21:20 7457 Feb 18 00:09	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathbb{m} \) 1° \( \mathbb{m} 25'27 \) 30° \( \Omega \) 27° \( \Omega 58'46 \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathbb{m} \) 2° \( \mathbb{m} 32'20 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 47'11 \) 7° \( \mathbb{m} 04'05 \) 15° \( \mathbb{m} \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23 7463 Mar 02 15:49 7463 May 11 01:50 7463 Jul 18 00:36	11° 332'31 11° 330'44 13° 341'04 21° 313'14 17° 351'59 17° 351'08 14° 325'51 22° 312'40 24° 320'47 24° 320'48 24° 319'02 26° 327'48 0° 220'48 0° 220'48 0° 220'48 0° 220'48	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58 10.52986 AU
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max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist.	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Sep 13 22:47 7456 Oct 05 02:26 7456 Oct 23 00:26 7456 Oct 23 00:24 7456 Oct 22 20:42 7456 Nov 09 21:20 7457 Feb 18 00:09 7457 Feb 21 08:52 7457 Apr 29 09:32 7457 Apr 29 12:04	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathbb{M} \) 1° \( \mathbb{M} 25'27 \) 30° \( \omega \) 27° \( \Omega 58'19 \) 24° \( \Omega 30'55 \) 0° \( \mathbb{M} \) 2° \( \mathbb{M} 32'20 \) 4° \( \mathbb{M} 48'22 \) 4° \( \mathbb{M} 48'22 \) 4° \( \mathbb{M} 48'22 \) 4° \( \mathbb{M} 48'11 \) 15° \( \mathbb{M} 00'37 \) 15° \( \mathbb{M} \) 11° \( \mathbb{M} 34'43 \) 11° \( \mathbb{M} 34'43 \) 11° \( \mathbb{M} 34'12 \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41 10.22610 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23 7463 Mar 02 15:49 7463 Mul 18 00:36 7463 Jul 18 00:36 7463 Jul 18 04:21 7463 Sep 26 00:32 7463 Nov 25 00:30	11° で32'31 11° で330'44 13° で41'04 21° で13'14 17° で55'59 17° で55'08 14° で25'51 22° で12'40 24° で20'47 24° で20'48 24° で319'02 26° で27'48 0° ≈ 3° ≈54'59 0° ≈33'44 30° Rで 27° で309'12 0° ≈	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58 10.52986 AU
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max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Sep 13 22:47 7456 Oct 05 02:26  7456 Oct 23 00:24 7456 Oct 23 00:24 7456 Oct 23 00:24 7456 Nov 09 21:20 7457 Feb 18 00:09 7457 Feb 21 08:52 7457 Apr 29 09:32 7457 Apr 29 09:32 7457 Apr 29 12:04 7457 Jul 06 06:45 7457 Oct 10 03:50 7457 Nov 06 10:11 7457 Nov 06 10:09 7457 Nov 06 06:13 7457 Nov 24 04:22 7458 Mar 07 01:16	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathbb{m} \) 1° \( \mathbb{m} 25'27 \) 30° \( \Omega \) 2° \( \Omega 58'46 \) 2° \( \Omega 58'19 \) 2° \( \Omega 30'55 \) 0° \( \mathbb{m} \) 2° \( \mathbb{m} 32'20 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 48'11 \) 7° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 34'43 \) 11° \( \mathbb{m} 34'12 \) 8° \( \mathbb{m} 06'41 \) 15° \( \mathbb{m} \) 16° \( \mathbb{m} 09'23 \) 18° \( \mathbb{m} 24'40 \) 18° \( \mathbb{m} 24'40 \) 18° \( \mathbb{m} 23'25 \) 20° \( \mathbb{m} 39'23 \) 28° \( \mathbb{m} 32'24 \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41 10.22610 AU 2°12'12 8.23600 AU 1°52'43 1°52'48 10.24765 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  direct evening set  conjunction minimum elong max. Earth dist. morning rise	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23 7463 Mar 02 15:49 7463 May 11 01:50 7463 Jul 18 00:36 7463 Jul 18 00:36 7463 Jul 18 04:21 7463 Jul 25 11:18 7463 Sep 26 00:32 7463 Nov 25 00:30 7464 Jan 09 00:47  7464 Jan 26 06:12 7464 Jan 26 06:12 7464 Jan 26 06:14 7464 Jan 26 01:34 7464 Feb 12 07:59 7464 May 22 18:55 7464 Jul 03 15:17	11° 332'31 11° 330'44 13° 341'04 21° 313'14 17° 351'59 17° 351'08 14° 325'51 22° 312'40 24° 320'47 24° 320'48 24° 319'02 26° 327'48 0° 33'42'8 0° 33'44 30° 83 27° 309'12 0° 40° 557'07 6° 557'07 6° 557'07 6° 557'41 9° 502'41 15° 16° 525'31 15° 8	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58 10.52986 AU 1°37'48 8.56378 AU 1°08'26 1°08'31 10.59603 AU
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max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	7455 Oct 09 13:22 7455 Oct 09 10:32 7455 Oct 27 12:12 7455 Dec 30 10:04 7456 Feb 08 13:18 7456 Mar 20 03:04 7456 Apr 15 17:26 7456 Apr 15 19:39 7456 Jun 22 07:16 7456 Sep 13 22:47 7456 Oct 05 02:26  7456 Oct 23 00:24 7456 Oct 23 00:24 7456 Oct 23 00:24 7456 Nov 09 21:20 7457 Feb 18 00:09 7457 Feb 21 08:52 7457 Apr 29 09:32 7457 Apr 29 09:32 7457 Apr 29 12:04 7457 Jul 06 06:45 7457 Oct 10 03:50 7457 Nov 06 10:11 7457 Nov 06 10:09 7457 Nov 06 06:13 7457 Nov 24 04:22 7458 Mar 07 01:16	21° \( \Omega 10'16 \) 21° \( \Omega 09'22 \) 23° \( \Omega 26'33 \) 0° \( \mathbb{m} \) 1° \( \mathbb{m} 25'27 \) 30° \( \Omega \) 2° \( \Omega 58'46 \) 2° \( \Omega 58'19 \) 2° \( \Omega 30'55 \) 0° \( \mathbb{m} \) 2° \( \mathbb{m} 32'20 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 48'22 \) 4° \( \mathbb{m} 48'11 \) 7° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 00'37 \) 15° \( \mathbb{m} \) 11° \( \mathbb{m} 34'43 \) 11° \( \mathbb{m} 34'12 \) 8° \( \mathbb{m} 06'41 \) 15° \( \mathbb{m} \) 16° \( \mathbb{m} 09'23 \) 18° \( \mathbb{m} 24'40 \) 18° \( \mathbb{m} 24'40 \) 18° \( \mathbb{m} 23'25 \) 20° \( \mathbb{m} 39'23 \) 28° \( \mathbb{m} 32'24 \)	1°19'00 10.22132 AU 1°51'08 8.22241 AU 1°38'37 1°38'41 10.22610 AU 2°12'12 8.23600 AU 1°52'43 1°52'48 10.24765 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  direct evening set  conjunction minimum elong max. Earth dist. morning rise	7461 Dec 31 01:59 7461 Dec 30 20:19 7462 Jan 17 08:26 7462 Apr 28 04:55 7462 Jul 04 20:37 7462 Jul 05 00:59 7462 Sep 12 13:55 7462 Dec 26 23:35  7463 Jan 13 07:19 7463 Jan 13 07:21 7463 Jan 13 01:41 7463 Jan 30 11:23 7463 Mar 02 15:49 7463 May 11 01:50 7463 Jul 18 00:36 7463 Jul 18 00:36 7463 Jul 18 04:21 7463 Jul 25 11:18 7463 Sep 26 00:32 7463 Nov 25 00:30 7464 Jan 09 00:47  7464 Jan 26 06:12 7464 Jan 26 06:12 7464 Jan 26 06:14 7464 Jan 26 01:34 7464 Feb 12 07:59 7464 May 22 18:55 7464 Jul 03 15:17	11° 332'31 11° 330'44 13° 341'04 21° 313'14 17° 351'59 17° 351'08 14° 325'51 22° 312'40 24° 320'47 24° 320'48 24° 319'02 26° 327'48 0° 33'42'8 0° 33'44 30° 83 27° 309'12 0° 40° 557'07 6° 557'07 6° 557'07 6° 557'41 9° 502'41 15° 16° 525'31 15° 8	1°45'18 10.46196 AU 2°00'48 8.49678 AU 1°28'53 1°28'58 10.52986 AU 1°37'48 8.56378 AU 1°08'26 1°08'31 10.59603 AU

direct	7464 Oct 08 06:38	9° <b>≈</b> 41'13		min. Earth dist.	7470 Oct 13 09:45	25° <b>Y</b> 20'11	8.83954 AU
	7465 Jan 01 02:09	15° <b>≈</b>		direct	7470 Dec 22 13:15	21° <b>Υ</b> 59'31	
evening set	7465 Jan 20 19:44	17° <b>≈</b> 16'57		evening set	7471 Apr 02 20:25	29° <b>Ƴ</b> 12'43	
					7471 Apr 09 11:23	$9^{\circ}$ 8	
conjunction	7465 Feb 06 22:50	19° <b>≈</b> 22'10	0°45'01				
minimum elong	7465 Feb 06 22:51	19° <b>≈</b> 22'10	0°45'05	conjunction	7471 Apr 19 12:57	1° <b>8</b> 12'44	
max. Earth dist.	7465 Feb 06 19:20		10.65817 AU	minimum elong	7471 Apr 19 12:55	1° <b>8</b> 12'43	
morning rise	7465 Feb 23 22:31	21°≈26'25		max. Earth dist.	7471 Apr 19 15:32	_	10.83686 AU
retrograde	7465 Jun 04 08:55	28°≈45'41	0040116	morning rise	7471 May 06 06:24	3° <b>8</b> 13'00	
opposition min. Earth dist.	7465 Aug 12 00:23	25°≈26'09	0°40'16	retrograde	7471 Aug 16 17:05	10° <b>8</b> 31'15 7° <b>8</b> 10'13	2905121
direct	7465 Aug 12 03:02 7465 Oct 21 08:58	25°≈25'39 22°≈02'41	8.68700 AU	opposition min. Earth dist.	7471 Oct 26 02:25 7471 Oct 25 23:32	7° <b>8</b> 10'13	
evening set	7466 Feb 02 08:54	22 ≈02 41 29°≈33'02		direct	7471 Oct 23 23:32 7472 Jan 03 21:42	3° <b>8</b> 50'20	6.63273 AU
evening set	7466 Feb 06 02:47	29 <b>≈</b> 33 02 0° <b>H</b>		evening set	7472 Jan 03 21:42 7472 Apr 13 19:02	11° <b>8</b> 02'49	
	7400100 00 02.47	υ <b>Λ</b>		evening set	7472 Apr 13 17.02	11 0024)	
conjunction	7466 Feb 19 09:37	1° <b>)</b> 36′54	0°19'49	conjunction	7472 Apr 30 11:23	13° <b>8</b> 02'54	-1°48'47
minimum elong	7466 Feb 19 09:37	1° <b>)</b> €36'55	0°19'52	minimum elong	7472 Apr 30 11:22	13° <b>8</b> 02'54	
max. Earth dist.	7466 Feb 19 06:40	1° <b>)</b> 36′01	10.71412 AU	max. Earth dist.	7472 Apr 30 15:03		10.82312 AU
morning rise	7466 Mar 08 07:34	3° <b>)</b> 39′58			7472 May 16 17:36	15° <b>8</b>	
retrograde	7466 Jun 16 20:28	10° <b>)</b> 56′35		morning rise	7472 May 17 05:21	15° <b>8</b> 03'29	
opposition	7466 Aug 24 20:41	7° <b>)</b> 37′15	0°08'39	retrograde	7472 Aug 28 04:49	22° <b>8</b> 24'49	
min. Earth dist.	7466 Aug 24 22:55	7° <b>∺</b> 36'49	8.73898 AU	opposition	7472 Nov 06 16:58	19° <b>8</b> 03'06	-2°20'05
direct	7466 Nov 03 06:40	4° <b>)</b> 14′35		min. Earth dist.	7472 Nov 06 12:57	19° <b>8</b> 03'52	8.81274 AU
desc. node	7466 Dec 05 06:10	5° <b>)</b> 04'49		direct	7473 Jan 15 05:08	15° <b>8</b> 43'24	
evening set	7467 Feb 14 17:13	11° <b>)</b> 40′00		evening set	7473 Apr 25 18:56	22° <b>8</b> 56'06	
			00000				
conjunction	7467 Mar 03 15:41	13° <b>)</b> (42'40		conjunction	7473 May 12 11:58	24° <b>8</b> 56'38	
minimum elong	7467 Mar 03 15:41	13° <b>)</b> √42'40	0°06'04	minimum elong	7473 May 12 11:57	24° <b>8</b> 56'38	
behind sun begin	7467 Mar 03 08:59	13° <b>)</b> (40'39		max. Earth dist.	7473 May 12 17:14		10.79658 AU
behind sun end max. Earth dist.	7467 Mar 03 22:23 7467 Mar 03 13:16	13° <b>)</b> (44'41	10.76173 AU	morning rise	7473 May 29 07:05 7473 Jun 25 10:05	26° <b>႘</b> 57'50 0° <b>Ⅱ</b>	
morning rise	7467 Mar 20 12:11	15° <b>H</b> 44'43	10.76173 AU	retrograde	7473 Sep 09 20:39	0 H 4°H22'56	
retrograde	7467 Jun 29 04:32	22° <b>H</b> 59'37		opposition	7473 Sep 09 20:39 7473 Nov 19 08:28	1° <b>I</b> I00'29	-2°28'43
opposition	7467 Sep 06 14:35	19° <b>)</b> (40'14	-0°23'00	min. Earth dist.	7473 Nov 19 03:14		8.78032 AU
min. Earth dist.	7467 Sep 06 15:49	19° <b>)</b> (40'01	8.78175 AU	mm. Dartii dist.	7473 Dec 02 21:05	30°R8	0.70032710
direct	7467 Nov 16 01:32	16° <b>)</b> 18′20	0.70170110	direct	7474 Jan 27 13:38	27° <b>8</b> 40'49	
evening set	7468 Feb 26 21:27	23° <b>)</b> (39′27			7474 Mar 21 17:44	0°П	
C				evening set	7474 May 07 21:13	4° <b>Ⅱ</b> 54'36	
conjunction	7468 Mar 14 18:00	25° <b>)</b> 41′05	-0°31'25		•		
minimum elong	7468 Mar 14 17:59	25° <b>)</b> 41′05	0°31'24	conjunction	7474 May 24 15:39	6° <b>Ⅱ</b> 55'58	-2°02'37
max. Earth dist.	7468 Mar 14 17:07	25° <b>)</b> 40′49	10.79904 AU	minimum elong	7474 May 24 15:39	6° <b>Ⅱ</b> 55'58	2°02'43
morning rise	7468 Mar 31 13:08	27° <b>)</b> 42′18		max. Earth dist.	7474 May 24 21:49		10.75831 AU
	7468 Apr 20 16:25	$0^{\circ}\mathbf{\Upsilon}$		morning rise	7474 Jun 10 12:44	8° <b>Ⅱ</b> 58'09	
retrograde	7468 Jul 10 13:12	4° <b>Y</b> 56'34		retrograde	7474 Sep 22 16:35	16° <b>Ⅱ</b> 27'28	
opposition	7468 Sep 18 06:50	1° <b>Y</b> 36'57		opposition	7474 Dec 02 01:26	13° <b>Ⅱ</b> 04'17	
min. Earth dist.	7468 Sep 18 06:17	1° <b>Υ</b> 37'03	8.81348 AU	min. Earth dist.	7474 Dec 01 19:48		8.73673 AU
J: 4	7468 Oct 10 17:10	30° <b>₹</b>		direct	7475 Feb 08 21:12	9° <b>Ⅱ</b> 44'26 17° <b>Ⅱ</b> 00'14	
direct	7468 Nov 27 17:19 7469 Jan 13 03:54	28° <b>)</b> 15'43 0° <b>°</b>		evening set	7475 May 20 03:01	т/ д00/14	
evening set	7469 Mar 09 22:37	5° <b>Υ</b> 33'17		conjunction	7475 Jun 05 23:31	19° <b>Ⅱ</b> 02'44	-2°01'36
5 toming 50t	, 10) 11th 0/ 22.37	5 1 33 17		minimum elong	7475 Jun 05 23:31	19 <b>H</b> 02 44 19° <b>H</b> 02'44	
conjunction	7469 Mar 26 17:29	7° <b>Ƴ</b> 34'06	-0°55'14	max. Earth dist.	7475 Jun 06 05:20		10.70992 AU
minimum elong	7469 Mar 26 17:27	7° <b>Ƴ</b> 34'06	0°55'16	morning rise	7475 Jun 22 23:24	21° <b>Ⅱ</b> 06'16	
max. Earth dist.	7469 Mar 26 18:41		10.82452 AU	retrograde	7475 Oct 05 14:30	28° <b>Ⅱ</b> 40′05	
morning rise	7469 Apr 12 11:28	9° <b>Ƴ</b> 34'43		opposition	7475 Dec 14 20:13	25° <b>Ⅱ</b> 16′09	-2°26'22
retrograde	7469 Jul 22 22:29	16° <b>Ƴ</b> 49'21		min. Earth dist.	7475 Dec 14 15:01		8.68395 AU
opposition	7469 Sep 30 21:55	13° <b>Y</b> 29'23	-1°21'17	direct	7476 Feb 21 06:50	21° <b>Ⅱ</b> 55'58	
min. Earth dist.	7469 Sep 30 19:59	13° <b>Y</b> 29'44	8.83298 AU	evening set	7476 May 31 13:05	29° <b>Ⅱ</b> 14'36	
direct	7469 Dec 10 04:03	10° <b>Y</b> 08'44			7476 Jun 06 19:29	0ංම	
evening set	7470 Mar 21 21:57	17° <b>Y</b> 23'37		_			
			101 555 -	conjunction	7476 Jun 17 12:31	1°5518'35	
conjunction	7470 Apr 07 15:25	19° <b>Y</b> 23'54		minimum elong	7476 Jun 17 12:32	1°518'35	
minimum elong	7470 Apr 07 15:23	19° <b>Υ</b> 23'53		max. Earth dist.	7476 Jun 17 18:12		10.65369 AU
max. Earth dist.	7470 Apr 24 08:48	19°° <b>γ</b> ′24'36 21° <b>Υ</b> 24'11	10.83728 AU	morning rise	7476 Jul 04 15:50	3°523'42	
morning rise	7470 Apr 24 08:48	$21^{\circ \circ \gamma} \cdot 24^{\circ} 11$ $28^{\circ \circ \gamma} \cdot 40^{\circ} 10$		retrograde	7476 Oct 17 15:57 7476 Dec 26 17:19	11°502'12 7°537'32	2015/02
retrograde opposition	7470 Aug 04 06:51 7470 Oct 13 12:14	28° <b>Υ</b> '40'10 25° <b>Υ</b> '19'43	-1°45'38	opposition min. Earth dist.	7476 Dec 26 17:19 7476 Dec 26 12:24		-2°15'03 8.62446 AU
оррознин	/T/0 OCC 13 12.14	4J   1743	1 73 30	mm. Darm UISt.	7770 DCC 20 12.24	1 -230 29	0.02 <del>11</del> 0 AU

direct	7477 Mar 04 21:15	4° <b>©</b> 16'51		max. Earth dist.	7482 Sep 05 05:05	10°m/11'27	10.30187 AU
evening set	7477 Jun 13 04:13	11° <b>9</b> 38'59		morning rise	7482 Sep 03 03:03 7482 Sep 23 04:13	20° Mp 56'40	10.30187 AU
evening set	/4// Juli 13 04.13	11 303639				20 m/3640 28°m/55'06	
	7477 I 20 07.21	129674444	1042105	retrograde	7483 Jan 06 06:33	~	0927142
conjunction	7477 Jun 30 07:21	13°5544'44		opposition	7483 Mar 15 03:51	25° m 28'04	0°37'42
minimum elong	7477 Jun 30 07:23	13°544'45		min. Earth dist.	7483 Mar 15 04:05	25° m 28'01	8.28234 AU
max. Earth dist.	7477 Jun 30 13:32		10.59214 AU	direct	7483 May 21 09:34	22° Mp 02'17	
morning rise	7477 Jul 17 14:27	15°951'41		evening set	7483 Sep 01 12:36	29° m 53'55	
retrograde	7477 Oct 30 22:43	23°934'46	1055110		7483 Sep 02 08:13	0∘ <b>⊽</b>	
opposition	7478 Jan 08 16:47	20°509'24					
min. Earth dist.	7478 Jan 08 11:45		8.56096 AU	conjunction	7483 Sep 19 11:11	2° <b>Ω</b> 09'26	0°43'56
direct	7478 Mar 17 13:15	16° <b>©</b> 48'07		minimum elong	7483 Sep 19 11:09	2° <b>Ω</b> 09'25	0°43'57
evening set	7478 Jun 26 01:31	24°9514'24		max. Earth dist.	7483 Sep 19 10:12	2° <b>≙</b> 09'07	10.26594 AU
				morning rise	7483 Oct 07 10:53	4° <b>£</b> 25'19	
conjunction	7478 Jul 13 08:42	26°522'02		retrograde	7484 Jan 20 03:34	12° <b>≏</b> 24'27	
minimum elong	7478 Jul 13 08:45	26°©22'03	1°26'07	opposition	7484 Mar 27 17:26	8° <b>≏</b> 57'34	1°10'52
max. Earth dist.	7478 Jul 13 15:12		10.52802 AU	min. Earth dist.	7484 Mar 27 18:14	8° <b>≏</b> 57'24	8.25348 AU
morning rise	7478 Jul 30 19:46	28° <b>©</b> 30'55		direct	7484 Jun 03 01:22	5° <b>≏</b> 30'58	
	7478 Aug 12 07:54	$0^{\circ}\Omega$		evening set	7484 Sep 14 21:18	13° <b>≏</b> 26'58	
retrograde	7478 Nov 13 09:10	6° <b>Ω</b> 18'17					
opposition	7479 Jan 21 18:40	2° <b>Ω</b> 52'19	-1°33'23	conjunction	7484 Oct 02 20:24	15° <b>≏</b> 42'59	1°09'20
min. Earth dist.	7479 Jan 21 13:37	2° <b>Ω</b> 53'18	8.49635 AU	minimum elong	7484 Oct 02 20:22	15° <b>≙</b> 42'58	1°09'22
	7479 Mar 06 15:21	30° <b>ℝ</b> ∽		max. Earth dist.	7484 Oct 02 18:28	15° <b>≏</b> 42'22	10.24418 AU
direct	7479 Mar 30 08:32	29° <b>©</b> 30'16		morning rise	7484 Oct 20 19:30	17° <b>≏</b> 59'02	
	7479 Apr 22 20:53	$0^{\circ}\Omega$		retrograde	7485 Feb 02 01:49	25° <b>≏</b> 57'37	
evening set	7479 Jul 09 05:20	7° <b>Ω</b> 01'14		opposition	7485 Apr 10 08:07	22° <b>ჲ</b> 31'03	1°40'17
				min. Earth dist.	7485 Apr 10 09:40	22° <b>£</b> 30'44	8.23989 AU
conjunction	7479 Jul 26 16:34	9° <b>Ω</b> 10′50	-1°04'31	direct	7485 Jun 16 19:43	19° <b>≙</b> 03'46	
minimum elong	7479 Jul 26 16:36	9° <b>Ω</b> 10'51	1°04'35	evening set	7485 Sep 29 08:20	27° <b>♀</b> 03'07	
max. Earth dist.	7479 Jul 26 22:11	9° <b>Ω</b> 12'36	10.46431 AU				
morning rise	7479 Aug 13 07:32	11° <b>Ω</b> 21'37		conjunction	7485 Oct 17 06:51	29° <b>≏</b> 19'04	1°30'57
C	7479 Sep 14 06:42	15° <b>Ω</b>		minimum elong	7485 Oct 17 06:48	29° <b>£</b> 19'03	1°31'01
retrograde	7479 Nov 26 22:51	19° <b>Ω</b> 12'48		max. Earth dist.	7485 Oct 17 03:41	29° <b>≏</b> 18'04	10.23833 AU
opposition	7480 Feb 03 23:22	15° <b>Ω</b> 46'20	-1°04'32		7485 Oct 22 15:33	o° <b>m</b> ₊	
min. Earth dist.	7480 Feb 03 19:10	15° <b>Ω</b> 47'10	8.43363 AU	morning rise	7485 Nov 04 04:21	1° <b>M</b> 34'47	
	7480 Feb 13 19:23	15°R <b>Ω</b>		retrograde	7486 Feb 15 21:59	9°M31'32	
direct	7480 Apr 11 08:19	12° <b>Ω</b> 23'25		opposition	7486 Apr 23 23:30	6°M05'30	2°04'08
	7480 Jun 05 16:45	15° <b>Ω</b>		min. Earth dist.	7486 Apr 24 02:14	6°M04'57	8.24261 AU
evening set	7480 Jul 21 15:41	19° <b>Ω</b> 59'23		direct	7486 Jun 30 17:17	2°M37'43	0.2 .201 110
evening sec	7100341 21 13.11	19 003923		evening set	7486 Oct 13 19:23	10°M39'01	
conjunction	7480 Aug 08 06:44	22° <b>Ω</b> 10'52	-0°39'28	evening sec	7100 000 13 17.23	10 11035 01	
minimum elong	7480 Aug 08 06:45	22°Ω10'52		conjunction	7486 Oct 31 16:21	12°M54'25	1°47'30
max. Earth dist.	7480 Aug 08 10:37		10.40383 AU	minimum elong	7486 Oct 31 16:19	12°M54'25	
morning rise	7480 Aug 26 01:17	24°Ω23'25	10.40303 AC	max. Earth dist.	7486 Oct 31 10:19		10.24888 AU
morning risc	7480 Oct 17 21:12	0° m		max. Lartii dist.	7486 Nov 17 05:35	15°M	10.24000 AC
retrograde	7480 Dec 09 16:03	2° Mp 17'46		morning rise	7486 Nov 18 11:33	15°M09'21	
renograde	7480 Bee 09 10:03 7481 Feb 01 13:37	2 11/17 40 30°RΩ		retrograde	7480 Nov 18 11:33 7487 Mar 01 14:52	23°M03'07	
opposition	7481 Feb 16 06:39	28° <b>Ω</b> 50'56	0°21'57	opposition	7487 May 07 14:41	19°M37'45	2°21'00
min. Earth dist.	7481 Feb 16 04:03		8.37548 AU	min. Earth dist.	7487 May 07 18:33	19°M36'58	8.26150 AU
direct	7481 Apr 24 11:42	26 <b>∂</b> €31 27 25° <b>Ω</b> 27'02	6.57546 AU	direct	7487 Jul 14 16:44	16°M09'40	8.20130 AU
direct	7481 Jul 08 10:49	0° m			7487 Oct 28 04:29		
				evening set	7487 Oct 28 04.29	24°M11'21	
evening set	7481 Aug 04 08:49	3°Mp08'15			7407 N 14 22 22	260 <b>m</b> 25151	1050102
	7401 4 22 02 12	50m-21124	0012106	conjunction	7487 Nov 14 23:23	26°M25'51	
conjunction	7481 Aug 22 03:12	5° Tp 21'24		minimum elong	7487 Nov 14 23:21	26°M25'50	1°58'07
minimum elong	7481 Aug 22 03:12	5° m 21'24	0°12'08	max. Earth dist.	7487 Nov 14 17:34		10.27525 AU
behind sun begin	7481 Aug 21 22:22	5° m 19'54		morning rise	7487 Dec 02 15:52	28°M39'37	
behind sun end	7481 Aug 22 08:02	5° Th 22'54	10.24001 177		7487 Dec 13 15:02	0° <b>₹</b>	
max. Earth dist.	7481 Aug 22 04:51	-	10.34891 AU	retrograde	7488 Mar 14 04:17	6° ₹ 29'22	2020100
morning rise	7481 Sep 09 00:36	7° m 35'29		opposition	7488 May 20 04:43	3°×704'45	2°30'00
retrograde	7481 Dec 23 10:41	15° m 32'15		min. Earth dist.	7488 May 20 09:12	3° <b>₹</b> 03'51	8.29536 AU
asc. node	7482 Jan 31 03:03	14° Mp 16'23	00001:-		7488 Jul 06 13:33	30°RM.	
opposition	7482 Mar 01 16:07	12° Mp 05'13		direct	7488 Jul 27 15:48	29°M36'36	
min. Earth dist.	7482 Mar 01 15:20	12° Mp 05'22	8.32412 AU	_	7488 Aug 17 17:02	0° <b>∡</b>	
direct	7482 May 07 20:15	8° m/40'20		evening set	7488 Nov 10 09:43	7° <b>∡</b> ³37'03	
evening set	7482 Aug 18 08:05	16° Mp 26′54					
				conjunction	7488 Nov 28 02:16	9° <b>₹</b> 50'22	2°02'04
conjunction	7482 Sep 05 05:04	18° <b>m</b> 41'26	0°16'17	minimum elong	7488 Nov 28 02:16	9° <b>∡</b> 50′21	2°02'10
minimum elong	7482 Sep 05 05:03	18° Mp 41'26	0°16'16	max. Earth dist.	7488 Nov 27 19:57	9° <b>∡</b> 48'22	10.31576 AU

morning rise	7488 Dec 15 15:48	12° <b>⋌</b> 102'44		retrograde	7495 Jun 11 15:40	5° <b>)</b> 47′30	
retrograde	7489 Mar 27 14:19	19° <b>∡</b> ¹47'40		opposition	7495 Aug 19 12:40	2° <b>∺</b> 27'56	0°22'51
opposition	7489 Jun 02 17:07	16° <b>∡</b> ¹23'53	2°30'49	min. Earth dist.	7495 Aug 19 13:38	2° <b>)(</b> 27'45	8.72269 AU
min. Earth dist.	7489 Jun 02 21:31	16° <b>х</b> 23′00	8.34197 AU		7495 Sep 24 22:58	30°R≈	
direct	7489 Aug 10 13:50	12° <b>₹</b> 55'54		direct	7495 Oct 28 23:29	29°≈04'50	
evening set	7489 Nov 24 09:33	20°×753'38		4.1.001	7495 Dec 01 11:38	0° <b>∀</b>	
evening set	74071101 24 07.55	20 × 33 30		evening set	7496 Feb 09 14:29	6° <b>)</b> 31'47	
agniumation	7490 Dec. 11, 22,25	23° <b>₹</b> 05'32	1950122	evening set	7490 FC0 09 14.29	0 /(314/	
conjunction	7489 Dec 11 23:35				7406 F. 1. 26 14 04	001/24/51	0005125
minimum elong	7489 Dec 11 23:36	23° <b>∡</b> 05'32	1°59'39	conjunction	7496 Feb 26 14:04	8° <b>)</b> (34′51	0°05'35
max. Earth dist.	7489 Dec 11 17:42		10.36787 AU	minimum elong	7496 Feb 26 14:05	8° <b>)</b> 34′51	0°05'38
morning rise	7489 Dec 29 10:05	25° <b>≯</b> 16'22		behind sun begin	7496 Feb 26 07:18	8° <b>)</b> 32′49	
	7490 Feb 10 02:01	0°ಕ		behind sun end	7496 Feb 26 20:51	8° <b>)</b> 36′53	
retrograde	7490 Apr 09 20:03	2° <b>る</b> 56'01		max. Earth dist.	7496 Feb 26 13:11	8° <b>)</b> €34'36	10.74961 AU
	7490 Jun 10 11:11	30°₹ <b>⋌</b> 7		morning rise	7496 Mar 14 11:05	10° <b>)</b> 37′11	
opposition	7490 Jun 16 03:16	29° <b>∡</b> ³33'04	2°23'39	desc. node	7496 May 17 11:14	16° <b>)</b> 44'36	
min. Earth dist.	7490 Jun 16 07:10	29° <b>₹</b> 32'18	8.39863 AU	retrograde	7496 Jun 23 00:57	17° <b>¥</b> 52'05	
direct	7490 Aug 24 09:25	26° <b>₹</b> 05'31		opposition	7496 Aug 31 06:48	14° <b>)</b> €32'48	-0°08'53
anov	7490 Nov 02 22:33	0°ਰ		min. Earth dist.	7496 Aug 31 06:50	14° <b>)</b> 32'47	
evening set	7490 Dec 08 02:57	³°₹59'15		direct	7496 Nov 09 17:53	11° <b>)</b> 10'43	0.77307 AC
evening set	7490 Dec 08 02.37	3 03913				18° <b>)</b> 33'04	
	7400 D 07 1400	60 <b>-7</b> 00 <b>10</b> -7	1050151	evening set	7497 Feb 20 19:56	18° A 33'04	
conjunction	7490 Dec 25 14:29	6° <b>る</b> 09'37	1°50'51				
minimum elong	7490 Dec 25 14:31	6° <b>ප</b> 09'38	1°50'57	conjunction	7497 Mar 09 17:20	20° <b>)</b> 34′59	
max. Earth dist.	7490 Dec 25 09:30		10.42871 AU	minimum elong	7497 Mar 09 17:20	20° <b>)</b> 34′59	
morning rise	7491 Jan 11 22:05	8° <b>る</b> 18'52		max. Earth dist.	7497 Mar 09 17:26	20° <b>)</b> 35′01	10.79575 AU
retrograde	7491 Apr 22 22:11	15° <b>ප</b> 53'07		morning rise	7497 Mar 26 12:52	22° <b>)</b> 36′23	
opposition	7491 Jun 29 10:49	12° <b>る</b> 30'59	2°09'13	retrograde	7497 Jul 05 09:45	29° <b>升</b> 50′09	
min. Earth dist.	7491 Jun 29 14:37	12° <b>る</b> 30'14	8.46238 AU	opposition	7497 Sep 12 23:21	26° <b>)</b> 30′58	-0°39'53
direct	7491 Sep 07 01:01	9° <b>る</b> 04'03		min. Earth dist.	7497 Sep 12 23:01	26° <b>)</b> 31′01	8.81471 AU
evening set	7491 Dec 21 13:26	16° <b>る</b> 52'52		direct	7497 Nov 22 09:30	23° <b>)</b> €09'47	
5 / T 8 # 5 7	, ,, , , , , , , , , , , , , , , , , , ,				7498 Feb 28 21:44	0°Υ	
conjunction	7492 Jan 07 22:27	19° <b>ට</b> 01'42	1036'30	evening set	7498 Mar 04 21:54	0° <b>Υ</b> 28'14	
				evening set	7496 Widi 04 21.34	0 1 20 14	
minimum elong	7492 Jan 07 22:29	19° <b>る</b> 01'42			7400 14 21 17 10	200020112	0044142
max. Earth dist.	7492 Jan 07 17:48		10.49509 AU	conjunction	7498 Mar 21 17:19	2° <b>Υ</b> 29'12	
morning rise	7492 Jan 25 03:29	21° <b>ろ</b> 09'21		minimum elong	7498 Mar 21 17:17	2° <b>Y</b> 29'12	
retrograde	7492 May 04 20:31	28° <b>る</b> 38'21		max. Earth dist.	7498 Mar 21 17:47		10.83056 AU
opposition	7492 Jul 11 15:32	25° <b>る</b> 17'02	1°48'34	morning rise	7498 Apr 07 11:47	4° <b>Y</b> 29'54	
min. Earth dist.	7492 Jul 11 19:25	25° <b>る</b> 16'17	8.52989 AU	retrograde	7498 Jul 17 17:25	11° <b>Ƴ</b> 43'33	
direct	7492 Sep 19 12:00	21° <b>る</b> 50'54		opposition	7498 Sep 25 14:29	8° <b>Y</b> 24'15	-1°08'57
evening set	7493 Jan 02 17:05	29° <b>る</b> 34'16		min. Earth dist.	7498 Sep 25 13:19	8° <b>Y</b> 24'28	8.84355 AU
	7493 Jan 06 05:45	0° <b>≈</b>		direct	7498 Dec 04 21:26	5° <b>Ƴ</b> 03'52	
				evening set	7499 Mar 16 21:39	12° <b>Ƴ</b> 19'15	
conjunction	7493 Jan 19 23:31	1° <b>≈</b> 41'32	1°17'54	Ü			
minimum elong	7493 Jan 19 23:34	1° <b>≈</b> 41'33	1°17'58	conjunction	7499 Apr 02 15:32	14° <b>Ƴ</b> 19'32	-1°07'14
max. Earth dist.	7493 Jan 19 18:54		10.56358 AU	minimum elong	7499 Apr 02 15:30	14° <b>Υ</b> 19'31	
morning rise	7493 Feb 06 02:17	3°≈47'42	10.50550710	max. Earth dist.	7499 Apr 02 17:13		10.85258 AU
retrograde		11°≈11'56			-	16° <b>Υ</b> 19'44	10.03230 AC
•	7493 May 17 12:48		1022100	morning rise	7499 Apr 19 09:12		
opposition	7493 Jul 24 17:19	7°≈51'21	1°23'00	retrograde	7499 Jul 30 00:40	23° <b>Y</b> 34'17	1024157
min. Earth dist.	7493 Jul 24 20:57	7°≈50'39	8.59788 AU	opposition	7499 Oct 08 04:28	20° <b>℃</b> 14'41	
direct	7493 Oct 02 20:40	4° <b>≈</b> 26′09		min. Earth dist.	7499 Oct 08 01:59	20° <b>Y</b> 15′09	8.85905 AU
evening set	7494 Jan 15 14:03	12° <b>≈</b> 03'53		direct	7499 Dec 17 08:38	16° <b>Ƴ</b> 54'55	
				evening set	7500 Mar 28 20:04	24° <b>Ƴ</b> 08'09	
conjunction	7494 Feb 01 18:02	14° <b>≈</b> 09′38	0°55'41				
minimum elong	7494 Feb 01 18:04	14° <b>≈</b> 09'38	0°55'46	conjunction	7500 Apr 14 12:58	26° <b>Y</b> ′08′01	-1°26'51
max. Earth dist.	7494 Feb 01 13:50	14° <b>≈</b> 08′20	10.63092 AU	minimum elong	7500 Apr 14 12:56	26° <b>Y</b> 08′00	1°26'54
	7494 Feb 08 14:03	15° <b>≈</b>		max. Earth dist.	7500 Apr 14 16:22	26° <b>Y</b> ′09′02	10.86069 AU
morning rise	7494 Feb 18 18:47	16° <b>≈</b> 14'23		morning rise	7500 May 01 06:08	28° <b>Y</b> ′08′00	
retrograde	7494 May 30 02:39	23° <b>≈</b> 34'36		· ·	7500 May 17 13:38	0°8	
opposition	7494 Aug 06 16:18	20°≈14'36	0°53'57	retrograde	7500 Aug 11 11:22	5° <b>8</b> 24'23	
min. Earth dist.	7494 Aug 06 18:41	20 ≈1430 20°≈14'09	8.66317 AU	opposition	7500 Aug 11 11:22 7500 Oct 20 18:17	2° <b>8</b> 04'18	-1°56'53
	7494 Oct 16 01:06		3.00317 AU	min. Earth dist.			8.86025 AU
direct		16°≈50'27		mm. Earm dist.	7500 Oct 20 14:33		0.00023 AU
evening set	7495 Jan 28 04:46	24° <b>≈</b> 22'36		1.	7500 Nov 19 16:04	30°R℃	
	#40# T	262 -	0001111	direct	7500 Dec 29 17:01	28° <b>Y</b> 45′00	
conjunction	7495 Feb 14 06:33	26° <b>≈</b> 26'56	0°31'11		7501 Feb 06 16:23	0°8	
minimum elong	7495 Feb 14 06:34	26° <b>≈</b> 26'57	0°31'14	evening set	7501 Apr 09 18:11	5° <b>8</b> 56'56	
max. Earth dist.	7495 Feb 14 03:58	26° <b>≈</b> 26′09	10.69390 AU				
morning rise	7495 Mar 03 05:22	28° <b>≈</b> 30′25		conjunction	7501 Apr 26 10:32	7° <b>8</b> 56'43	-1°42'48
	7495 Mar 15 23:34	0° <b>)</b>		minimum elong	7501 Apr 26 10:30	7° <b>8</b> 56'42	1°42'51

max. Earth dist.	7501 Apr 26 14:40		10.85416 AU	max. Earth dist.	7507 Jul 08 21:22		10.55539 AU
morning rise	7501 May 13 03:54	9° <b>8</b> 56'51		morning rise	7507 Jul 26 02:41	22° <b>©</b> 57'08	
	7501 Jul 01 09:03	15° <b>8</b>			7507 Oct 10 12:49	$0^{\circ}\Omega$	
retrograde	7501 Aug 23 22:54	17° <b>8</b> 15'53		retrograde	7507 Nov 08 13:26	0° <b>Ω</b> 42'27	
	7501 Oct 18 16:30	15° <b>₹႘</b>			7507 Dec 07 18:15	30° <b>₹</b>	
opposition	7501 Nov 02 08:22	13° <b>8</b> 55'11	-2°13'55	opposition	7508 Jan 17 03:24	27°516'30	-1°45'01
min. Earth dist.	7501 Nov 02 04:33	13° <b>8</b> 55'54	8.84650 AU	min. Earth dist.	7508 Jan 17 00:13	27° <b>©</b> 17'07	8.52080 AU
direct	7502 Jan 10 22:56	10° <b>8</b> 36'06		direct	7508 Mar 24 20:30	23°954'26	
	7502 Mar 27 18:26	15° <b>8</b>			7508 Jun 21 21:42	0°Ω	
evening set	7502 Apr 21 17:14	17° <b>8</b> 47'49		evening set	7508 Jul 03 12:43	1° <b>Ω</b> 23'12	
evening set	7302 Apr 21 17.14	17 04749		evening set	7506 Jul 05 12.45	1 0623 12	
conjunction	7502 May 08 09:41	19° <b>8</b> 47'52	-1°54'24	conjunction	7508 Jul 20 21:58	3° <b>Ω</b> 31'57	-1°14'54
minimum elong	7502 May 08 09:39	19° <b>8</b> 47'51		minimum elong	7508 Jul 20 22:00	3° <b>Ω</b> 31'57	
•	•			•			10.48544 AU
max. Earth dist.	7502 May 08 13:22	_	10.83260 AU	max. Earth dist.	7508 Jul 21 01:42		10.48544 AU
morning rise	7502 May 25 04:05	21° <b>8</b> 48'29		morning rise	7508 Aug 07 11:17	5° <b>Ω</b> 41'54	
retrograde	7502 Sep 05 11:31	29° <b>8</b> 10'59		retrograde	7508 Nov 21 00:30	13° <b>Ω</b> 31'31	
opposition	7502 Nov 14 23:00	25° <b>8</b> 49'34	-2°25'18	opposition	7509 Jan 29 06:45	10° <b>Ω</b> 04'49	
min. Earth dist.	7502 Nov 14 19:35	25° <b>8</b> 50'12	8.81772 AU	min. Earth dist.	7509 Jan 29 03:56	10° <b>Ω</b> 05'23	8.45138 AU
direct	7503 Jan 23 06:44	22° <b>8</b> 30'28		direct	7509 Apr 06 19:14	6° <b>Ω</b> 41'46	
evening set	7503 May 03 18:08	29° <b>8</b> 43'00		evening set	7509 Jul 16 19:44	14° <b>Ω</b> 15'37	
	7503 May 06 03:20	$\Pi^{\circ}0$			7509 Jul 22 19:58	15° <b>Ω</b>	
conjunction	7503 May 20 11:36	1° <b>Ⅱ</b> 43'44	-2°01'08	conjunction	7509 Aug 03 09:11	16° <b>Ω</b> 26′22	-0°51'23
minimum elong	7503 May 20 11:35	1° <b>Ⅱ</b> 43'44	2°01'13	minimum elong	7509 Aug 03 09:13	16° <b>Ω</b> 26′23	0°51'26
max. Earth dist.	7503 May 20 15:13	1° <b>Ⅱ</b> 44'49	10.79659 AU	max. Earth dist.	7509 Aug 03 12:48	16° <b>Ω</b> 27'30	10.41795 AU
morning rise	7503 Jun 06 07:42	3° <b>Ⅱ</b> 45'13		morning rise	7509 Aug 21 02:15	18° <b>Ω</b> 38'16	
retrograde	7503 Sep 18 04:23	11° <b>I</b> I1'51		retrograde	7509 Dec 04 16:30	26° <b>Ω</b> 31'37	
opposition	7503 Nov 27 15:01	7° <b>Ⅱ</b> 49'35	-2°30'30	opposition	7510 Feb 11 12:44	23° <b>Ω</b> 04'21	-0°47'21
min. Earth dist.	7503 Nov 27 11:29		8.77520 AU	min. Earth dist.	7510 Feb 11 10:07		8.38611 AU
direct	7504 Feb 04 15:08	4° <b>Ⅱ</b> 30'17	0.77320 AO	direct	7510 Apr 19 20:32	19° <b>Ω</b> 40'18	0.50011 AC
evening set	7504 May 14 21:50	11° <b>Ⅱ</b> 44'32		evening set	7510 Jul 30 09:45	27° <b>Ω</b> 19'32	
conjunction	7504 May 31 17:14	13° <b>Ⅱ</b> 46'18	-2°02'37	conjunction	7510 Aug 17 02:53	29° <b>Ω</b> 32'08	-0°24'55
	•	13° <b>Ⅱ</b> 46'18		minimum elong	7510 Aug 17 02:54	29°Ω32'09	
minimum elong	7504 May 31 17:14			Č			
max. Earth dist.	7504 May 31 21:58		10.74811 AU	max. Earth dist.	7510 Aug 17 05:54		10.35612 AU
morning rise	7504 Jun 17 15:38	15° <b>Ⅱ</b> 49'00			7510 Aug 20 19:31	0° <b>m</b>	
retrograde	7504 Sep 30 00:36	23° <b>Ⅱ</b> 20'13		morning rise	7510 Sep 03 23:01	1° <b>m</b> 45'44	
opposition	7504 Dec 09 08:46	19° <b>Ⅱ</b> 56'59		retrograde	7510 Dec 18 10:55	9° <b>™</b> 42'07	
min. Earth dist.	7504 Dec 09 04:22		8.72138 AU	opposition	7511 Feb 24 21:17	6° Mp 14′29	-0°13'23
direct	7505 Feb 16 00:49	16° <b>Ⅲ</b> 37'17		min. Earth dist.	7511 Feb 24 19:08	6° Mp 14′55	8.32828 AU
evening set	7505 May 27 05:35	23° <b>Ⅱ</b> 54'04		direct	7511 May 03 02:32	2° Mp49′26	
				asc. node	7511 Jul 19 05:54	7° <b>m</b> ∕37'33	
conjunction	7505 Jun 13 03:40	25° <b>Ⅱ</b> 57'14	-1°58'38	evening set	7511 Aug 13 06:21	10° <b>m</b> 34'09	
minimum elong	7505 Jun 13 03:41	25° <b>Ⅱ</b> 57'14	1°58'45				
max. Earth dist.	7505 Jun 13 08:58	25° <b>Ⅲ</b> 58'51	10.68982 AU	conjunction	7511 Aug 31 02:23	12° Mp 48'20	0°03'16
morning rise	7505 Jun 30 05:07	28° <b>Ⅱ</b> 01'27		minimum elong	7511 Aug 31 02:22	12° m/48'20	0°03'15
	7505 Jul 17 05:56	0°95		behind sun begin	7511 Aug 30 19:07	12° m/ 46'04	
retrograde	7505 Oct 13 01:28	5°937'25		behind sun end	7511 Aug 31 09:37	12° m 50'35	
opposition	7505 Dec 22 04:31	2°913'14	-2°20'57	max. Earth dist.	7511 Aug 31 03:59	-	10.30325 AU
						-	10.30323 AU
min. Earth dist.	7505 Dec 21 23:54		8.65906 AU	morning rise	7511 Sep 18 00:46	15° Mp 03'17	
	7506 Jan 22 18:25	30°RⅡ		retrograde	7512 Jan 01 07:09	23° <b>m</b> 01'49	0001:::
direct	7506 Feb 28 12:30	28° <b>Ⅱ</b> 52'53		opposition	7512 Mar 09 08:20	19° Mp 34'04	0°21'44
	7506 Apr 05 11:55	0		min. Earth dist.	7512 Mar 09 07:20	19° Mp 34'16	8.28110 AU
evening set	7506 Jun 08 18:11	6°913'00		direct	7512 May 15 12:54	16° Mp 08'04	
				evening set	7512 Aug 26 08:44	23° <b>m</b> 58'03	
conjunction	7506 Jun 25 19:32	8° <b>छ</b> 17'50	-1°49'09				
minimum elong	7506 Jun 25 19:34	8° <b>©</b> 17'51	1°49'16	conjunction	7512 Sep 13 06:44	26° Mp 13'24	
max. Earth dist.	7506 Jun 26 00:21	8° <b>5</b> 19'19	10.62459 AU	minimum elong	7512 Sep 13 06:43	26° Mp 13'23	0°31'24
morning rise	7506 Jul 13 00:43	10° <b>©</b> 23'51		max. Earth dist.	7512 Sep 13 06:28	26°M 13'19	10.26231 AU
retrograde	7506 Oct 26 06:17	18° <b>5</b> 04'34		morning rise	7512 Oct 01 06:24	28° <b>m</b> 29'16	
opposition	7507 Jan 04 02:41	14°939'27	-2°06'07	Č	7512 Oct 13 16:42	0∘ <b>⊽</b>	
min. Earth dist.	7507 Jan 03 22:36		8.59114 AU	retrograde	7513 Jan 14 04:46	6° <b>≏</b> 28'56	
direct	7507 Mar 13 01:56	11°9518'18		opposition	7513 Mar 22 21:26	3° <b>⊆</b> 01'18	0°56'01
evening set	7507 Jun 21 12:20	11 \$1818 18°\$42'27		min. Earth dist.	7513 Mar 22 21:53	3° <b>⊆</b> 01'13	8.24724 AU
evening set	1501 Jun 21 12.20	10 <del>104</del> 421		mm. Earm uist.			0.44744 AU
aomine-+:	7507 [-1 00 17 24	2006-40110	1024125	direct	7513 May 07 11:24	30°RM) 20°m 24/29	
conjunction	7507 Jul 08 17:26	20°549'10		direct	7513 May 29 03:02	29° m/34'28	
minimum elong	7507 Jul 08 17:28	20°549'11	1-34-31		7513 Jun 19 18:35	0∘ <b>ত</b>	

evening set	7513 Sep 09 16:03	7° <b>≙</b> 29'12		min. Earth dist.	7519 Jun 11 16:21 7519 Aug 19 12:20	23° <b>х</b> 55'20 20° <b>х</b> 28'48	8.37285 AU
conjunction	7513 Sep 27 14:58	9° <b>Ω</b> 45'14	0°58'03	evening set	7519 Dec 03 09:07	28° <b>×</b> <sup>7</sup> 24'57	
minimum elong	7513 Sep 27 14:56	9° <b>Ω</b> 45'13	0°58'05		7519 Dec 16 02:46	0°ප	
max. Earth dist.	7513 Sep 27 13:06	9° <b>£</b> 44'38	10.23562 AU				
morning rise	7513 Oct 15 14:40	12° <b>ഫ</b> 01'31		conjunction	7519 Dec 20 21:43	0° <b>る</b> 36'05	1°55'18
retrograde	7514 Jan 28 02:40	20° <b>≏</b> 01'07		minimum elong	7519 Dec 20 21:44	0° <b>る</b> 36'05	1°55'24
opposition	7514 Apr 05 11:56	16° <b>≏</b> 33'52	1°27'24	max. Earth dist.	7519 Dec 20 16:18	0° <b>る</b> 34'22	10.40293 AU
min. Earth dist.	7514 Apr 05 13:25	16° <b>≏</b> 33'34	8.22872 AU	morning rise	7520 Jan 07 06:45	2° <b>ප්</b> 46'07	
direct	7514 Jun 11 21:25	13° <b>≏</b> 06′23		retrograde	7520 Apr 17 11:59	10° <b>る</b> 23'12	
evening set	7514 Sep 24 02:24	21° <b>≏</b> 04'59		opposition	7520 Jun 23 21:36	7° <b>ට</b> 01'11	2°16'17
				min. Earth dist.	7520 Jun 24 01:41	7° <b>る</b> 00'23	8.43696 AU
conjunction	7514 Oct 12 01:14	23° <b>≏</b> 21'11	1°21'35	direct	7520 Sep 01 07:22	3° <b>る</b> 34'25	
minimum elong	7514 Oct 12 01:12	23° <b>≏</b> 21'11	1°21'38	evening set	7520 Dec 15 23:35	11° <b>る</b> 25'53	
max. Earth dist.	7514 Oct 11 22:23	23° <b>≙</b> 20'17	10.22492 AU				
morning rise	7514 Oct 29 23:49	25° <b>£</b> 37′20		conjunction	7521 Jan 02 09:39	13° <b>る</b> 35'26	1°43'26
	7514 Dec 07 06:33	0°M₊		minimum elong	7521 Jan 02 09:41	13° <b>る</b> 35'27	1°43'32
retrograde	7515 Feb 10 22:38	3°M35'43		max. Earth dist.	7521 Jan 02 04:16	13° <b>る</b> 33'45	10.46979 AU
opposition	7515 Apr 19 03:26	0°M09'04	1°54'00	morning rise	7521 Jan 19 16:00	15° <b>⋜</b> 43'50	
min. Earth dist.	7515 Apr 19 05:19	0°ML08'41	8.22675 AU	retrograde	7521 Apr 30 12:20	23° <b>る</b> 15'25	
	7515 Apr 21 00:02	30° <b>₹</b> Ω		opposition	7521 Jul 07 04:08	19° <b>る</b> 54'12	1°58'14
direct	7515 Jun 25 19:10	26° <b>≏</b> 41'11		min. Earth dist.	7521 Jul 07 07:46	19° <b>る</b> 53'29	8.50485 AU
	7515 Aug 27 22:07	0°M₊		direct	7521 Sep 14 21:47	16° <b>පි</b> 28'10	
evening set	7515 Oct 08 13:49	4°M42'23		evening set	7521 Dec 29 06:46	24° <b>る</b> 14'15	
conjunction	7515 Oct 26 11:41	6°M58'16	1°40'35	conjunction	7522 Jan 15 14:24	26° <b>පි</b> 22'13	1°26'34
minimum elong	7515 Oct 26 11:39	6°M58'15	1°40'39	minimum elong	7522 Jan 15 14:27	26° <b>පි</b> 22'14	1°26'40
max. Earth dist.	7515 Oct 26 08:35	6°M57'16	10.23102 AU	max. Earth dist.	7522 Jan 15 09:40	26° <b>る</b> 20'45	10.53825 AU
morning rise	7515 Nov 13 08:12	9° <b>M</b> 13'47		morning rise	7522 Feb 01 18:13	28° <b>る</b> 29'04	
	7516 Jan 05 22:22	15° <b>™</b>			7522 Feb 14 12:18	0° <b>≈</b>	
retrograde	7516 Feb 24 17:33	17° <b>M</b> 09'46		retrograde	7522 May 13 08:11	5° <b>≈</b> 55'37	
	7516 Apr 15 18:31	15°RM		opposition	7522 Jul 20 07:44	2° <b>≈</b> 35′08	1°34'40
opposition	7516 May 01 19:08	13°M43'53	2°14'10	min. Earth dist.	7522 Jul 20 11:02	2° <b>≈</b> 34'29	8.57219 AU
min. Earth dist.	7516 May 01 21:08	13°M43'29	8.24149 AU		7522 Aug 27 07:37	30°Rる	
direct	7516 Jul 08 17:44	10°M15'50		direct	7522 Sep 28 08:05	29° <b>る</b> 09'57	
	7516 Sep 23 23:22	15° <b>M</b> ₊			7522 Oct 30 00:43	0° <b>≈</b>	
evening set	7516 Oct 22 00:38	18° <b>M</b> 18′09		evening set	7523 Jan 11 07:13	6° <b>≈</b> 50′27	
conjunction	7516 Nov 08 20:47	20°M33'18	1°53'56	conjunction	7523 Jan 28 12:29	8° <b>≈</b> 56'55	1°05'44
minimum elong	7516 Nov 08 20:45	20°M33'17	1°54'00	minimum elong	7523 Jan 28 12:32	8°≈56'56	1°05'49
max. Earth dist.	7516 Nov 08 17:23		10.25360 AU	max. Earth dist.	7523 Jan 28 08:23	8° <b>≈</b> 55'39	10.60437 AU
morning rise	7516 Nov 26 14:35	22°M47'47		morning rise	7523 Feb 14 14:02	11° <b>≈</b> 02′20	
	7517 Feb 10 07:26	0° <b>∡</b> ¹			7523 Mar 22 08:07	15° <b>≈</b>	
retrograde	7517 Mar 09 10:54	0° <b>≯</b> 40'11		retrograde	7523 May 26 00:59	18° <b>≈</b> 24'37	
	7517 Apr 05 18:35	30°RM₊		opposition	7523 Aug 02 08:28	15° <b>≈</b> 04'44	1°06'57
opposition	7517 May 15 10:13	27°M15'14		min. Earth dist.	7523 Aug 02 11:51	15° <b>≈</b> 04'05	8.63586 AU
min. Earth dist.	7517 May 15 12:51		8.27207 AU		7523 Aug 03 09:04	15°R≈	
direct	7517 Jul 22 15:34	23°M47'14		direct	7523 Oct 11 13:46	11°≈40'26	
	7517 Oct 21 08:14	0° <b>∡</b> 7			7523 Dec 16 00:54	15° <b>≈</b>	
evening set	7517 Nov 05 08:39	1° <b>₹</b> 49'04		evening set	7524 Jan 24 01:32	19° <b>≈</b> 15'30	
aoninyti	7517 N 22 02 20	40.702106	2000155	aamin+!	7524 E-1- 10-04-24	21020122	0042102
conjunction	7517 Nov 23 02:29	4° ₹ 03'06		conjunction	7524 Feb 10 04:24	21°≈20'33	0°42'03
minimum elong	7517 Nov 23 02:28	4° <b>₹</b> 03'06	2°01'01	minimum elong	7524 Feb 10 04:25	21°≈20'33	0°42'08
max. Earth dist.	7517 Nov 22 22:29		10.29136 AU	max. Earth dist.	7524 Feb 10 00:21		10.66561 AU
morning rise	7517 Dec 10 17:18 7518 Mar 23 00:52	6° <b>₹</b> 16'16 14° <b>₹</b> 04'07		morning rise	7524 Feb 27 04:01	23° <b>≈</b> 24'40 0° <b>)</b> €	
retrograde			2021117	ratra arada	7524 May 08 14:00		
opposition min. Earth dist.	7518 May 29 00:15	10° <b>∡</b> 740′10	2°31'17 8.31673 AU	retrograde	7524 Jun 06 14:51 7524 Jul 06 01:55	0° <b>)</b> (43'32 30°R≈	
direct	7518 May 29 03:39 7518 Aug 05 14:08	10° <b>₹</b> 39'30 7° <b>₹</b> 12'24	0.510/5 AU	opposition	7524 Aug 14 06:46	30°k≈ 27°≈24'03	0°36'32
evening set	7518 Aug 05 14:08 7518 Nov 19 11:50	15° <b>⊀</b> 12'24		min. Earth dist.	7524 Aug 14 06:46 7524 Aug 14 10:07	27°≈24'03 27°≈23'25	8.69375 AU
evening set	1310 INOV 19 11.30	13 8:120/		direct	7524 Aug 14 10:07 7524 Oct 23 14:59	21°≈23°23 24°≈00'39	0.07373 AU
conjunction	7518 Dag 07 02:04	170.70447	2°01'19	uncci	7524 Oct 23 14:39 7525 Jan 22 16:10	24°≈00 39 0° <b>)</b> {	
conjunction minimum elong	7518 Dec 07 03:04 7518 Dec 07 03:04	17° <b>₹</b> 24'47 17° <b>₹</b> 24'47	2°01'19 2°01'25	evening set	7525 Jan 22 16:10 7525 Feb 04 14:18	1° <b>X</b> 30′29	
max. Earth dist.	7518 Dec 07 03:04 7518 Dec 06 22:22		10.34215 AU	evening set	1343170 04 14.18	1 N 30 29	
max. Earth dist.	7518 Dec 06 22:22 7518 Dec 24 14:54	17° <b>×</b> °23°18 19° <b>×</b> ³36′26	10.54215 AU	conjunction	7525 Feb 21 14:46	3° <b>)</b> (34'14	0°16'44
retrograde	7519 Apr 05 08:32	19 <b>x</b> ·30 20 27° <b>x</b> 19'05		minimum elong	7525 Feb 21 14:46	3° <del>X</del> 34'14	
opposition	7519 Apr 03 08.32 7519 Jun 11 12:18	27 <b>x</b> ·1903 23° <b>x</b> ¹56'08	2°27'36	max. Earth dist.	7525 Feb 21 10:59		10.71999 AU
эррозион	/51/ Juli 11 12.10	25 × 50 00	2 2, 30	max. Darm dist.	7525100 21 10.59	5 1(33.03	.v., 1777 AU

morning rise	7525 Mar 10 12:41	5° <b>)</b> 37′12		max. Earth dist.	7531 May 03 21:26	15° <b>8</b> 03'19	10.81566 AU
retrograde	7525 Jun 19 00:29	12° <b>升</b> 53′35		morning rise	7531 May 20 11:14	17° <b>8</b> 02'45	
opposition	7525 Aug 27 02:45	9° <b>)</b> 34'17	0°04'50	retrograde	7531 Aug 31 12:33	24° <b>8</b> 24'47	
min. Earth dist.	7525 Aug 27 05:08	9° <b>)</b> 33′50	8.74393 AU	opposition	7531 Nov 09 23:55	21° <b>8</b> 02'58	-2°21'25
desc. node	7525 Oct 23 10:26	6° <b>¥</b> 20'16		min. Earth dist.	7531 Nov 09 19:29	21° <b>8</b> 03'48	8.80434 AU
direct	7525 Nov 05 13:24	6° <b>)</b> 11'43		direct	7532 Jan 18 12:14	17° <b>8</b> 43'13	
evening set	7526 Feb 16 22:15	13° <b>)</b> (36'48		evening set	7532 Apr 28 01:12	24° <b>8</b> 56'23	
evening set	7520100 10 22.15	13 7(3040		evening set	7332 Apr 26 01.12	24 03023	
conjunction	7526 Mar 05 20:36	15° <b>)</b> 39′22	-0°09'10	conjunction	7532 May 14 18:22	26° <b>8</b> 57'06	-1°59'00
minimum elong	7526 Mar 05 20:36	15° <b>)</b> (39'22		minimum elong	7532 May 14 18:21	26° <b>8</b> 57'06	
behind sun begin	7526 Mar 05 14:37	15° <b>X</b> 39'22	0 09 08	max. Earth dist.	•	. •	1 3903 10.78726 AU
•		15° <b>X</b> 3734			7532 May 14 23:40	_	10.78720 AU
behind sun end	7526 Mar 06 02:36			morning rise	7532 May 31 13:36	28° <b>8</b> 58'28	
max. Earth dist.	7526 Mar 05 18:11		10.76562 AU		7532 Jun 09 08:05	0°П	
morning rise	7526 Mar 22 16:59	17° <b>) (</b> 41′20		retrograde	7532 Sep 12 05:57	6° <b>Ⅲ</b> 24'18	
retrograde	7526 Jul 01 10:31	24° <b>)</b> 56′15		opposition	7532 Nov 21 15:57	3° <b>Ⅱ</b> 01'45	-2°29'16
opposition	7526 Sep 08 20:37	21° <b>)</b> 36′53	-0°26'43	min. Earth dist.	7532 Nov 21 10:50	3° <b>Ⅲ</b> 02'43	8.77018 AU
min. Earth dist.	7526 Sep 08 21:20	21° <b>)</b> 36′45	8.78455 AU		7533 Jan 10 22:28	30° <b>₹</b> 8	
direct	7526 Nov 18 08:16	18° <b>¥</b> 15'06		direct	7533 Jan 29 18:52	29° <b>8</b> 41'59	
evening set	7527 Mar 01 02:16	25° <b>¥</b> 35'59			7533 Feb 17 12:09	0°П	
				evening set	7533 May 10 04:03	6° <b>∏</b> 56'21	
conjunction	7527 Mar 17 22:46	27° <b>¥</b> 37'35	-0°34'21	evening sec	7000 111uy 10 0 1.00	0 20021	
minimum elong	7527 Mar 17 22:45	27° <b>)</b> (37'35		conjunction	7533 May 26 22:35	8° <b>I</b> 57'53	2002/43
Č			10.80067 AU		•	8° <b>П</b> 57'53	
max. Earth dist.	7527 Mar 17 22:26		10.8006 / AU	minimum elong	7533 May 26 22:35		
morning rise	7527 Apr 03 17:44	29° <b>)</b> (38'46		max. Earth dist.	7533 May 27 03:56		10.74749 AU
	7527 Apr 06 17:45	0° <b>Υ</b>		morning rise	7533 Jun 12 20:00	11° <b>∏</b> 00′18	
retrograde	7527 Jul 13 19:55	6° <b>Ƴ</b> 53'11		retrograde	7533 Sep 25 00:21	18° <b>Ⅲ</b> 30′25	
opposition	7527 Sep 21 12:53	3° <b>Ƴ</b> 33'35	-0°56'51	opposition	7533 Dec 04 09:29	15° <b>Ⅱ</b> 07'05	-2°30'38
min. Earth dist.	7527 Sep 21 12:16	3° <b>Ƴ</b> 33'42	8.81395 AU	min. Earth dist.	7533 Dec 04 04:34	15° <b>Ⅲ</b> 08'01	8.72529 AU
direct	7527 Nov 30 21:55	0° <b>Υ</b> 12'28		direct	7534 Feb 11 03:49	11° <b>Ⅱ</b> 47'06	
evening set	7528 Mar 12 03:35	7° <b>Ƴ</b> 29'58		evening set	7534 May 22 10:28	19° <b>Ⅲ</b> 03'35	
				•	•		
conjunction	7528 Mar 28 22:19	9° <b>Ƴ</b> 30'47	-0°57'56	conjunction	7534 Jun 08 07:16	21° <b>Ⅱ</b> 06'19	-2°01'00
minimum elong	7528 Mar 28 22:17	9° <b>Ƴ</b> 30'47	0°57'58	minimum elong	7534 Jun 08 07:17	21° <b>Ⅱ</b> 06'19	2°01'06
max. Earth dist.	7528 Mar 28 23:09	9° <b>Ƴ</b> 31'02	10.82375 AU	max. Earth dist.	7534 Jun 08 12:34	21°∏07'56	10.69802 AU
morning rise	7528 Apr 14 16:15	11° <b>Υ</b> 31'25	10.02373710	morning rise	7534 Jun 25 07:34	23° <b>I</b> I0'05	10.07002 110
retrograde	7528 Jul 25 04:03	18° <b>Y</b> 46'22		morning risc	7534 Sep 07 21:38	0° <b>©</b>	
•	7528 Oct 03 04:04	$15^{\circ}$ <b>Y</b> $26'23$	1004100		•	0°5544'44	
opposition				retrograde	7534 Oct 07 22:42		
min. Earth dist.	7528 Oct 03 02:52		8.83105 AU		7534 Nov 07 08:07	30°Ŗ <b>Ⅱ</b>	
direct	7528 Dec 12 09:16	12° <b>Y</b> 05'48		opposition	7534 Dec 17 04:43	27° <b>Ⅲ</b> 20′38	
evening set	7529 Mar 24 03:06	19° <b>Ƴ</b> 20'49		min. Earth dist.	7534 Dec 16 23:56	27° <b>Ⅱ</b> 21'33	8.67158 AU
				direct	7535 Feb 23 15:51	24° <b>Ⅱ</b> 00'17	
conjunction	7529 Apr 09 20:24	21° <b>Y</b> 21'07	-1°18'58		7535 May 23 14:58	$0$ $\circ$ $\odot$	
minimum elong	7529 Apr 09 20:22	21° <b>Y</b> 21'06	1°19'01	evening set	7535 Jun 03 21:15	1° <b>5</b> 019'38	
max. Earth dist.	7529 Apr 09 21:46	21° <b>Y</b> 21'32	10.83414 AU				
morning rise	7529 Apr 26 13:52	23° <b>Y</b> 21'28		conjunction	7535 Jun 20 21:10	3°523'54	-1°53'45
8 21	7529 Jul 09 21:59	0°8		minimum elong	7535 Jun 20 21:12	3°523'55	
retrograde	7529 Aug 06 13:18	0° <b>8</b> 37'54		max. Earth dist.	7535 Jun 21 03:13		10.64100 AU
1011051440	7529 Aug 00 13:18 7529 Sep 03 13:51	30°RΥ		morning rise	7535 Jul 08 00:50	5° <b>©</b> 29'18	10.0 F100 AU
opposition	7529 Oct 15 18:42	30 K 1 27° <b>Υ</b> 17'26	10/10/16	retrograde	7535 Jul 08 00:30 7535 Oct 21 02:23	13°508'36	
**				•			2012104
min. Earth dist.	7529 Oct 15 16:53		8.83529 AU	opposition	7535 Dec 30 02:18	9° <b>©</b> 43'45	
direct	7529 Dec 24 19:10	23° <b>Y</b> 57'14		min. Earth dist.	7535 Dec 29 21:04		8.61148 AU
	7530 Mar 25 22:10	0°8		direct	7536 Mar 07 05:06	6° <b>©</b> 22'55	
evening set	7530 Apr 05 01:42	1° <b>8</b> 10'42		evening set	7536 Jun 15 13:12	13° <b>©</b> 45'49	
	7520 A 21 12 1	201 11 21	1026126		750 C X 1 00 1111	150-5	1041107
conjunction	7530 Apr 21 18:14	3° <b>8</b> 10'47		conjunction	7536 Jul 02 16:49	15°951'50	
minimum elong	7530 Apr 21 18:12	3° <b>8</b> 10'46		minimum elong	7536 Jul 02 16:52	15° <b>©</b> 51'51	
max. Earth dist.	7530 Apr 21 20:35		10.83149 AU	max. Earth dist.	7536 Jul 02 23:37		10.57904 AU
morning rise	7530 May 08 11:45	5° <b>8</b> 11'09		morning rise	7536 Jul 20 00:15	17° <b>9</b> 59'04	
retrograde	7530 Aug 18 23:13	12° <b>8</b> 30'00		retrograde	7536 Nov 02 09:15	25° <b>©</b> 42'58	
opposition	7530 Oct 28 09:09	9° <b>8</b> 08'53	-2°07'32	opposition	7537 Jan 11 02:22	22° <b>©</b> 17'25	-1°54'25
min. Earth dist.	7530 Oct 28 06:08	9° <b>8</b> 09'27	8.82634 AU	min. Earth dist.	7537 Jan 10 20:47	22° <b>©</b> 18'30	8.54783 AU
direct	7531 Jan 06 03:44	5° <b>8</b> 48'59		direct	7537 Mar 19 22:03	18° <b>©</b> 55'57	
evening set	7531 Apr 17 00:44	13° <b>8</b> 01'51		evening set	7537 Jun 28 11:25	26°\$23'02	
J		=		Č			
conjunction	7531 May 03 17:15	15° <b>8</b> 02'03	-1°50'09	conjunction	7537 Jul 15 19:01	28° <b>©</b> 30'59	-1°23'27
minimum elong	7531 May 03 17:14	15° <b>8</b> 02'03		minimum elong	7537 Jul 15 19:03	28°931'00	
	7531 May 03 17:14 7531 May 03 10:27	15° <b>8</b>		max. Earth dist.	7537 Jul 16 01:27		10.51511 AU

	7537 Jul 27 19:00	0° <b>Ω</b>		direct	7543 Jun 06 12:43	7° <b>Ω</b> 46'15	
morning rise	7537 Aug 02 06:30	0° <b>Ω</b> 40'08		evening set	7543 Sep 18 11:20	15° <b>≏</b> 42'32	
retrograde	7537 Nov 15 20:26	8° <b>Ω</b> 28'15					
opposition	7538 Jan 24 04:55	5° <b>Ω</b> 02'08		conjunction	7543 Oct 06 10:17	17° <b>≏</b> 58'29	
min. Earth dist.	7538 Jan 23 23:53		8.48373 AU	minimum elong	7543 Oct 06 10:14	17° <b>≏</b> 58'28	1°12'20
direct	7538 Apr 01 18:10	1° <b>Ω</b> 39'54		max. Earth dist.	7543 Oct 06 08:15		10.24458 AU
evening set	7538 Jul 11 16:12	9° <b>Ω</b> 11'41		morning rise	7543 Oct 24 09:10	20° <b>≏</b> 14'30	
				retrograde	7544 Feb 05 14:42	28° <b>≏</b> 12'51	
conjunction	7538 Jul 29 03:47	11° <b>Ω</b> 21'35	-1°01'26	opposition	7544 Apr 12 20:20	24° <b>≏</b> 46'22	1°43'36
minimum elong	7538 Jul 29 03:49	11° <b>Ω</b> 21'35	1°01'30	min. Earth dist.	7544 Apr 12 22:12	24° <b>≏</b> 45'59	8.24145 AU
max. Earth dist.	7538 Jul 29 08:48	11° <b>Ω</b> 23'09	10.45226 AU	direct	7544 Jun 19 08:32	21° <b>≏</b> 19'04	
morning rise	7538 Aug 15 19:16	13° <b>£</b> 32'39		evening set	7544 Oct 01 22:16	29° <b>≙</b> 18'33	
	7538 Aug 27 23:23	15° <b>Ω</b>			7544 Oct 07 10:41	$0^{\circ}$ M	
retrograde	7538 Nov 29 11:30	21° <b>Ω</b> 24'28					
opposition	7539 Feb 06 10:13	17° <b>Ω</b> 57'54	-1°00'29	conjunction	7544 Oct 19 20:31	1°M34'25	1°33'18
min. Earth dist.	7539 Feb 06 06:29	17° <b>Ω</b> 58'38	8.42225 AU	minimum elong	7544 Oct 19 20:28	1°M34'24	1°33'22
	7539 Mar 24 02:09	15°R <b>Ω</b>		max. Earth dist.	7544 Oct 19 16:42	1°M33'12	10.24087 AU
direct	7539 Apr 14 17:47	14° <b>Ω</b> 34'47		morning rise	7544 Nov 06 17:51	3°M50'02	
	7539 May 06 08:06	15° <b>Ω</b>		retrograde	7545 Feb 18 09:42	11° <b>M</b> 46'27	
evening set	7539 Jul 25 03:30	22° <b>Ω</b> 11'36		opposition	7545 Apr 26 11:41	8°M20'33	2°06'35
-				min. Earth dist.	7545 Apr 26 14:56	8°M19'53	8.24618 AU
conjunction	7539 Aug 11 18:52	24° <b>Ω</b> 23'19	-0°36'01	direct	7545 Jul 03 06:37	4°M52'46	
minimum elong	7539 Aug 11 18:54	24° <b>Ω</b> 23'20	0°36'04	evening set	7545 Oct 16 09:13	12°M54'04	
max. Earth dist.	7539 Aug 11 22:33	24°Ω24'28	10.39341 AU	C	7545 Nov 02 00:28	15° <b>™</b>	
morning rise	7539 Aug 29 13:50	26° <b>Ω</b> 36'08					
3	7539 Sep 27 23:58	0°m∕		conjunction	7545 Nov 03 05:54	15°M09'21	1°49'06
retrograde	7539 Dec 13 03:59	4° mp 31'00		minimum elong	7545 Nov 03 05:52	15°M09'20	1°49'11
opposition	7540 Feb 19 18:01	1° Mp 04'06	-0°27'32	max. Earth dist.	7545 Nov 03 00:37	15°M07'40	
min. Earth dist.	7540 Feb 19 15:32		8.36622 AU	morning rise	7545 Nov 21 00:54	17°M24'08	10.20332110
min. Burur dist.	7540 Mar 04 08:08	30°RΩ	0.50022110	retrograde	7546 Mar 04 02:22	25°M17'28	
direct	7540 Apr 26 23:25	27° <b>Ω</b> 40'02		opposition	7546 May 10 02:38	21°M52'14	2°22'28
direct	7540 Jun 18 00:11	0° m		min. Earth dist.	7546 May 10 02:36	21°M51'26	8.26682 AU
evening set	7540 Aug 06 21:25	5° Mp 22'00		direct	7546 Jul 17 05:36	18°M24'13	0.20002 710
evening set	7540 Mug 00 21.25	3 11/22 00		evening set	7546 Oct 30 17:53	26°M25'43	
conjunction	7540 Aug 24 16:07	7° mp 35'21	-0°08'28	evening set	7540 Oct 50 17.55	20 11623 43	
conjunction							
minimum elong	•			conjunction	7546 Nov 17 12:33	28°M.40'05	1°58'49
minimum elong	7540 Aug 24 16:07	7° m/35'21	0°08'30	conjunction	7546 Nov 17 12:33	28°M40'05	1°58'49
behind sun begin	7540 Aug 24 16:07 7540 Aug 24 09:47	7° m 35'21 7° m 33'23		minimum elong	7546 Nov 17 12:31	28°M40'04	1°58'54
behind sun begin behind sun end	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27	7° m 35'21 7° m 33'23 7° m 37'20	0°08'30	v	7546 Nov 17 12:31 7546 Nov 17 06:46	28°M40'04 28°M38'15	
behind sun begin behind sun end max. Earth dist.	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05		minimum elong max. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08	28°M40′04 28°M38′15 0°⊀	1°58'54
behind sun begin behind sun end max. Earth dist. morning rise	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35	0°08'30	minimum elong max. Earth dist. morning rise	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44	28°M.40′04 28°M.38′15 0°⊀ 0°⊀753′41	1°58'54
behind sun begin behind sun end max. Earth dist. morning rise asc. node	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04	0°08'30	minimum elong max. Earth dist. morning rise retrograde	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55	28°M.40'04 28°M.38'15 0°\$\sqrt{15} 0°\$\sqrt{153'41} 8°\$\sqrt{142'55}	1°58'54 10.28132 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43	0°08'30 10.34108 AU	minimum elong max. Earth dist. morning rise retrograde opposition	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31	28°M.40'04 28°M.38'15 0°\$\stacksquare\square	1°58'54 10.28132 AU 2°30'25
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37	0°08'30 10.34108 AU 0°07'18	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28	28°M.40'04 28°M.38'15 0°\$\tilde{X}\$ 0°\$\tilde{X}\$53'41 8°\$\tilde{X}\$42'55 5°\$\tilde{X}\$18'27 5°\$\tilde{X}\$17'40	1°58'54 10.28132 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist.	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53	0°08'30 10.34108 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43	28°M.40'04 28°M.38'15 0° ¾ 0° ¾ 53'41 8° ¾ 42'55 5° ¾ 18'27 5° ¾ 17'40 1° ¾ 50'25	1°58'54 10.28132 AU 2°30'25
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 May 10 09:08	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36	0°08'30 10.34108 AU 0°07'18	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28	28°M.40'04 28°M.38'15 0°\$\tilde{X}\$ 0°\$\tilde{X}\$53'41 8°\$\tilde{X}\$42'55 5°\$\tilde{X}\$18'27 5°\$\tilde{X}\$17'40	1°58'54 10.28132 AU 2°30'25
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist.	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53	0°08'30 10.34108 AU 0°07'18	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Nov 13 22:25	28°M.40'04 28°M.38'15 0° \$\mathrightarrow{7}\$ 0° \$\mathrightarrow{7}\$53'41 8° \$\mathrightarrow{7}\$42'55 5° \$\mathrightarrow{7}\$18'27 5° \$\mathrightarrow{7}\$17'40 1° \$\mathrightarrow{7}\$50'25 9° \$\mathrightarrow{7}\$50'31	1°58'54 10.28132 AU 2°30'25 8.30213 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 May 10 09:08 7541 Aug 20 21:20	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43	0°08'30 10.34108 AU 0°07'18 8.31788 AU	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Nov 13 22:25	28°M.40'04 28°M.38'15 0° \$\mathrightarrow{7}\$ 0° \$\mathrightarrow{7}\$53'41 8° \$\mathrightarrow{7}\$42'55 5° \$\mathrightarrow{7}\$18'27 5° \$\mathrightarrow{7}\$17'40 1° \$\mathrightarrow{7}\$50'25 9° \$\mathrightarrow{7}\$50'31	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 02:32 7541 May 10 09:08 7541 Aug 20 21:20	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'23	0°08'30 10.34108 AU 0°07'18 8.31788 AU 0°19'54	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Nov 13 22:25 7547 Dec 01 14:48 7547 Dec 01 14:48	28°M.40'04 28°M.38'15 0° \$\tilde{X}\$ 0° \$\tilde{X}\$ 53'41 8° \$\tilde{X}\$42'55 5° \$\tilde{X}\$18'27 5° \$\tilde{X}\$10'25 9° \$\tilde{X}\$50'25 9° \$\tilde{X}\$50'31 12° \$\tilde{X}\$03'39 12° \$\tilde{X}\$03'39	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 May 10 09:08 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:35	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'23 20° m 56'22	0°08'30 10.34108 AU 0°07'18 8.31788 AU 0°19'54 0°19'54	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12	28°M.40'04 28°M.38'15 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$ 42'55 5° \$\tilde{\sigma}\$ 18'27 5° \$\tilde{\sigma}\$ 17'40 1° \$\tilde{\sigma}\$ 50'31 12° \$\tilde{\sigma}\$ 03'39 12° \$\tilde{\sigma}\$ 03'39 12° \$\tilde{\sigma}\$ 01'53	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00
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behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 19:44 7541 Sep 25 17:44	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'23 20° m 56'22 20° m 56'44 23° m 11'40	0°08'30 10.34108 AU 0°07'18 8.31788 AU 0°19'54 0°19'54	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11	28°M.40'04 28°M.38'15 0° \$\tilde{\sigma}\$ 0° \$\tilde{\sigma}\$53'41 8° \$\tilde{\sigma}\$42'55 5° \$\tilde{\sigma}\$17'40 1° \$\tilde{\sigma}\$50'25 9° \$\tilde{\sigma}\$50'31  12° \$\tilde{\sigma}\$03'39 12° \$\tilde{\sigma}\$03'39 12° \$\tilde{\sigma}\$01'53 14° \$\tilde{\sigma}\$15'52 22° \$\tilde{\sigma}\$00'14	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01	7° m 35'21 7° m 33'23 7° m 37'20 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'23 20° m 56'22 20° m 56'44 23° m 11'40 0° Ω	0°08'30 10.34108 AU 0°07'18 8.31788 AU 0°19'54 0°19'54	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37	28°M.40'04 28°M.38'15 0° \$\tilde{\tilde{\tilde{A}}} = 0 \tilde{\tilde{A}} = \tilde{A} = \t	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03	7° m 35'21 7° m 35'21 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'22 20° m 56'22 20° m 56'44 23° m 11'40 0° Ω 1° Ω 10'13	0°08'30 10.34108 AU 0°07'18 8.31788 AU 0°19'54 0°19'54	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27	28°M.40'04 28°M.38'15 0° \$\tilde{\tii	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30	7° m 35'21 7° m 35'21 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'23 20° m 56'44 23° m 11'40 0° Ω 1° Ω 10'13 30° R m	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Nov 13 22:25 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27 7548 Aug 13 02:28	28°M.40'04 28°M.38'15 0° \$\tilde{\tii	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30 7542 Mar 17 15:50	7° m 35'21 7° m 35'21 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 56'23 20° m 56'23 20° m 56'24 23° m 11'40 0° \(\Omega\) 1° \(\Omega\) 10'13 30° R m 27° m 43'08	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27	28°M.40'04 28°M.38'15 0° \$\tilde{\tii	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11
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behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. morning rise  retrograde  conjunction min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30 7542 Mar 17 15:50 7542 Mar 17 15:16 7542 May 23 21:24 7542 Aug 17 04:27 7542 Sep 22 01:04 7542 Sep 22 01:02 7542 Sep 22 01:02 7542 Sep 22 00:43 7542 Oct 10 00:36	7° m 35'21 7° m 35'21 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 54'36 18° m 41'43 20° m 56'22 20° m 56'22 20° m 56'44 23° m 11'40 0° Ω 1° Ω 10'13 30° R m 27° m 43'08 27° m 43'15 24° m 17'16 0° Ω 2° Ω 09'16 4° Ω 24'49 4° Ω 24'49 4° Ω 24'44 6° Ω 40'44	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU  0°42'06 8.27914 AU  0°47'20 0°47'21	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde retrograde	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27 7548 Aug 13 02:28 7548 Nov 26 21:37 7548 Dec 14 11:31 7548 Dec 14 11:31 7548 Dec 14 06:18 7549 Jan 22 06:07 7549 Apr 12 07:22 7549 Jun 18 14:25 7549 Jun 18 18:23	28°M.40'04 28°M.38'15 0° ¾ 0° ¾53'41 8° ¾42'55 5° ¾18'27 5° ¾17'40 1° ¾50'25 9° ¾50'31 12° ¾03'39 12° ¾03'39 12° ¾01'53 14° ¾15'52 22° ¾00'14 18° ¾36'35 18° ¾35'49 15° ¾08'45 23° ¾05'59 25° ¾17'43 25° ¾17'43 25° ¾16'04 27° ¾28'21 0° ♂ 5° ♂07'24 1° ♂44'36 1° ♂43'49	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11 8.34986 AU 1°58'40 1°58'45 10.37623 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 02:32 7541 May 10 09:08 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30 7542 Mar 17 15:50 7542 Mar 17 15:16 7542 May 23 21:24 7542 Sep 17 19:25 7542 Sep 22 01:04 7542 Sep 22 01:02 7542 Sep 22 00:43 7542 Oct 10 00:36 7543 Jan 22 17:35	7° m 35'21 7° m 35'21 7° m 36'05 9° m 49'35 17° m 41'04 17° m 46'43 14° m 19'37 14° m 19'53 10° m 56'23 20° m 56'22 20° m 56'44 23° m 11'40 0° Ω 1° Ω 10'13 30° R m 27° m 43'08 27° m 43'15 24° m 17'16 0° Ω 2° Ω 09'16 4° Ω 24'49 4° Ω 24'49 4° Ω 24'49 4° Ω 24'44 14° Ω 39'47	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU  0°42'06 8.27914 AU  0°47'20 0°47'21 10.26399 AU	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition minimum elong max. Earth dist. morning rise	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27 7548 Aug 13 02:28 7548 Nov 26 21:37 7548 Dec 14 11:31 7548 Dec 14 11:31 7548 Dec 14 06:18 7549 Jan 22 06:07 7549 Jan 12 07:22 7549 Jun 18 14:25 7549 Jun 18 18:23 7549 Jul 11 16:30	28°M.40'04 28°M.38'15 0° ¾ 0° ¾53'41 8° ¾42'55 5° ¾18'27 5° ¾17'40 1° ¾50'25 9° ¾50'31 12° ¾03'39 12° ¾01'53 14° ¾15'52 22° ¾00'14 18° ¾36'35 18° ¾35'49 15° ¾08'45 23° ¾05'59 25° ¾17'43 25° ¾17'43 25° ¾16'04 27° ¾28'21 0° ♂ 5° ♂07'24 1° ♂44'36 1° ♂43'49 30° ℝ ¾	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11 8.34986 AU 1°58'40 1°58'45 10.37623 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 03:55 7541 Mar 04 02:32 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30 7542 Mar 17 15:50 7542 Mar 17 15:16 7542 May 23 21:24 7542 Aug 17 04:27 7542 Sep 22 01:04 7542 Sep 22 01:04 7542 Sep 22 01:02 7542 Sep 22 00:43 7542 Oct 10 00:36 7543 Jan 22 17:35 7543 Mar 31 05:31	7° \mathbf{m} 35'21 7° \mathbf{m} 35'21 7° \mathbf{m} 33'23 7° \mathbf{m} 36'05 9° \mathbf{m} 49'35 17° \mathbf{m} 41'04 17° \mathbf{m} 46'43 14° \mathbf{m} 19'37 14° \mathbf{m} 19'53 10° \mathbf{m} 54'36 18° \mathbf{m} 41'43 20° \mathbf{m} 56'22 20° \mathbf{m} 56'22 20° \mathbf{m} 56'44 23° \mathbf{m} 11'40 0° \mathbf{m} 1° \mathbf{m} 10'13 30° \mathbf{m} 27° \mathbf{m} 43'08 27° \mathbf{m} 43'15 24° \mathbf{m} 17'16 0° \mathbf{m} 2° \mathbf{m} 20'16 4° \mathbf{m} 22'4'49 4° \mathbf{m} 22'4'43 6° \mathbf{m} 40'44 14° \mathbf{m} 39'47 11° \mathbf{m} 12'54	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU  0°42'06 8.27914 AU  0°47'20 0°47'21 10.26399 AU  1°14'51	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27 7548 Aug 13 02:28 7548 Nov 26 21:37 7548 Dec 14 11:31 7548 Dec 14 11:31 7548 Dec 14 11:32 7548 Dec 14 06:18 7549 Dec 31 21:40 7549 Jun 18 14:25 7549 Jun 18 18:23 7549 Jul 11 16:30 7549 Aug 26 20:39	28°M.40'04 28°M.38'15 0° ¾ 0° ¾53'41 8° ¾42'55 5° ¾18'27 5° ¾17'40 1° ¾50'25 9° ¾50'31 12° ¾03'39 12° ¾01'53 14° ¾15'52 22° ¾00'14 18° ¾36'35 18° ¾35'49 15° ¾08'45 23° ¾05'59 25° ¾17'43 25° ¾17'43 25° ¾16'04 27° ¾28'21 0° ♂ 5° ♂07'24 1° ♂44'36 1° ♂43'49 30° R.¾ 28° ¾17'11	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11 8.34986 AU 1°58'40 1°58'45 10.37623 AU
behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	7540 Aug 24 16:07 7540 Aug 24 09:47 7540 Aug 24 09:47 7540 Aug 24 22:27 7540 Aug 24 18:30 7540 Sep 11 13:43 7540 Dec 15 15:45 7540 Dec 25 22:04 7541 Mar 04 02:32 7541 May 10 09:08 7541 Aug 20 21:20 7541 Sep 07 18:35 7541 Sep 07 18:34 7541 Sep 07 18:34 7541 Sep 07 19:44 7541 Sep 25 17:44 7541 Dec 03 04:01 7542 Jan 08 19:03 7542 Feb 14 17:30 7542 Mar 17 15:50 7542 Mar 17 15:16 7542 May 23 21:24 7542 Sep 17 19:25 7542 Sep 22 01:04 7542 Sep 22 01:02 7542 Sep 22 00:43 7542 Oct 10 00:36 7543 Jan 22 17:35	7° \mathbf{m} 35'21 7° \mathbf{m} 35'21 7° \mathbf{m} 33'23 7° \mathbf{m} 36'05 9° \mathbf{m} 49'35 17° \mathbf{m} 41'04 17° \mathbf{m} 46'43 14° \mathbf{m} 19'37 14° \mathbf{m} 19'53 10° \mathbf{m} 54'36 18° \mathbf{m} 41'43 20° \mathbf{m} 56'22 20° \mathbf{m} 56'22 20° \mathbf{m} 56'44 23° \mathbf{m} 11'40 0° \mathbf{m} 1° \mathbf{m} 10'13 30° \mathbf{m} 27° \mathbf{m} 43'08 27° \mathbf{m} 43'15 24° \mathbf{m} 17'16 0° \mathbf{m} 2° \mathbf{m} 20'16 4° \mathbf{m} 22'4'49 4° \mathbf{m} 22'4'43 6° \mathbf{m} 40'44 14° \mathbf{m} 39'47 11° \mathbf{m} 12'54	0°08'30  10.34108 AU  0°07'18 8.31788 AU  0°19'54 0°19'54 10.29716 AU  0°42'06 8.27914 AU  0°47'20 0°47'21 10.26399 AU	minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition minimum elong max. Earth dist. morning rise	7546 Nov 17 12:31 7546 Nov 17 06:46 7546 Nov 28 01:08 7546 Dec 05 04:44 7547 Mar 17 15:55 7547 May 23 16:31 7547 May 23 20:28 7547 Jul 31 04:43 7547 Dec 01 14:48 7547 Dec 01 14:48 7547 Dec 01 09:12 7547 Dec 19 03:59 7548 Mar 30 01:11 7548 Jun 05 04:37 7548 Jun 05 08:27 7548 Aug 13 02:28 7548 Nov 26 21:37 7548 Dec 14 11:31 7548 Dec 14 11:31 7548 Dec 14 06:18 7549 Jan 22 06:07 7549 Jan 12 07:22 7549 Jun 18 14:25 7549 Jun 18 18:23 7549 Jul 11 16:30	28°M.40'04 28°M.38'15 0° ¾ 0° ¾53'41 8° ¾42'55 5° ¾18'27 5° ¾17'40 1° ¾50'25 9° ¾50'31 12° ¾03'39 12° ¾01'53 14° ¾15'52 22° ¾00'14 18° ¾36'35 18° ¾35'49 15° ¾08'45 23° ¾05'59 25° ¾17'43 25° ¾17'43 25° ¾16'04 27° ¾28'21 0° ♂ 5° ♂07'24 1° ♂44'36 1° ♂43'49 30° ℝ ¾	1°58'54 10.28132 AU 2°30'25 8.30213 AU 2°02'00 2°02'05 10.32316 AU 2°30'11 8.34986 AU 1°58'40 1°58'45 10.37623 AU

evening set	7549 Dec 10 14:21	6° <b>ප</b> 10'19		direct	7555 Nov 13 02:41	13° <b>)</b> 14'21	
	7540 D 20 01 20	00=2002	1040112	evening set	7556 Feb 24 03:16	20° <b>)</b> 36′15	
conjunction minimum elong	7549 Dec 28 01:39 7549 Dec 28 01:41	8°る20'32 8°る20'32	1°49'13 1°49'18	conjunction	7556 Mar 12 00:26	22° <b>)</b> 38′04	0022121
max. Earth dist.	7549 Dec 27 20:36		10.43759 AU	minimum elong	7556 Mar 12 00:25	22°\dagger 38'04	
	7550 Jan 14 09:00	8 31837 10° <b>る</b> 29'35	10.43739 AU	max. Earth dist.	7556 Mar 11 23:40		10.79900 AU
morning rise	7550 Jan 14 09:00 7550 Apr 25 09:11	10° <b>ろ</b> 2933		max. Earth dist.		24° <b>H</b> 39'24	10.79900 AU
retrograde	7550 Apr 23 09.11 7550 Jul 01 21:40	18 30311 14° <b>3</b> 41'12	2°06'46	morning rise	7556 Mar 28 19:58	24 π3924 0° <b>Υ</b>	
opposition min. Earth dist.	7550 Jul 02 02:01	14 341 12 14° <b>3</b> 40'21	8.47130 AU	retrograde	7556 May 20 16:38 7556 Jul 07 16:50	1° <b>Υ</b> 53'03	
	7550 Sep 09 11:27	14 84021 11°る14'24	8.4/130 AU	retrograde	7556 Aug 26 13:04	1 1 33 03 30°R <b>)</b> €	
direct	7550 Sep 09 11.27 7550 Dec 23 23:58	11 31424 19° <b>る</b> 02'32		annagition	Ü	30 KX 28° <b>¥</b> 33'47	0042142
evening set	7330 Dec 23 23.38	19 30232		opposition min. Earth dist.	7556 Sep 15 07:42		8.81703 AU
agniumation	7551 Jan 10 08:40	21° <b>ට</b> 11'10	1°34'23	direct	7556 Sep 15 07:45	26 K3347 25°¥12'37	8.81703 AU
conjunction			1°34'28	direct	7556 Nov 24 17:28	23 <b>π</b> 1237 0° <b>Υ</b>	
minimum elong	7551 Jan 10 08:42	21°る11'11	1°34°28 10.50404 AU		7557 Feb 12 23:10	0° γ 2° <b>Υ</b> 30'45	
max. Earth dist.	7551 Jan 10 03:23	21° <b>る</b> 09'32 23° <b>る</b> 18'41	10.50404 AU	evening set	7557 Mar 07 04:57	2 1 30 43	
morning rise	7551 Jan 27 13:35	23°€1841 0°≈		:	7557 Mar. 24, 00:12	4° <b>Ƴ</b> 31'39	0047141
. 1	7551 Apr 08 09:59			conjunction	7557 Mar 24 00:13	4° <b>γ</b> 31'39 4° <b>γ</b> 31'38	
retrograde	7551 May 08 04:43	0°≈47'03		minimum elong	7557 Mar 24 00:12		
• • •	7551 Jun 07 10:33	30°Rる	1045106	max. Earth dist.	7557 Mar 24 00:35		10.83184 AU
opposition	7551 Jul 15 01:57	27°₹25'51		morning rise	7557 Apr 09 18:37	6°Υ32'17	
min. Earth dist.	7551 Jul 15 06:07	27° <b>る</b> 25'02	8.53870 AU	retrograde	7557 Jul 19 23:58	13° <b>Y</b> 46′01	101010
direct	7551 Sep 22 23:48	23° <b>る</b> 59'49		opposition	7557 Sep 27 22:39	10° <b>Y</b> 26'37	
	7551 Dec 22 15:11	0° <b>≈</b>		min. Earth dist.	7557 Sep 27 21:06	10° <b>Y</b> 26'54	8.84383 AU
evening set	7552 Jan 06 02:46	1° <b>≈</b> 42′28		direct	7557 Dec 07 06:30	7° <b>Υ</b> 06'13	
				evening set	7558 Mar 19 04:30	14° <b>Y</b> 21′26	
conjunction	7552 Jan 23 08:59	3° <b>≈</b> 49'33	1°15'08			••	
minimum elong	7552 Jan 23 09:01	3° <b>≈</b> 49'33	1°15'13	conjunction	7558 Apr 04 22:22	16° <b>Y</b> 21'41	
max. Earth dist.	7552 Jan 23 03:57		10.57218 AU	minimum elong	7558 Apr 04 22:20	16° <b>Y</b> 21'40	
morning rise	7552 Feb 09 11:41	5° <b>≈</b> 55'33		max. Earth dist.	7558 Apr 05 00:40		10.85180 AU
retrograde	7552 May 19 21:24	13° <b>≈</b> 19′14		morning rise	7558 Apr 21 15:53	18° <b>Y</b> 21′52	
opposition	7552 Jul 27 03:06	9° <b>≈</b> 58'42	1°19'22	retrograde	7558 Aug 01 10:07	25° <b>Ƴ</b> 36'37	
min. Earth dist.	7552 Jul 27 06:24	9° <b>≈</b> 58'04	8.60609 AU	opposition	7558 Oct 10 12:39	22° <b>Y</b> 16′55	
direct	7552 Oct 05 08:11	6° <b>≈</b> 33'35		min. Earth dist.	7558 Oct 10 09:45		8.85734 AU
evening set	7553 Jan 17 22:58	14° <b>≈</b> 10′36		direct	7558 Dec 19 16:28	18° <b>Ƴ</b> 57'09	
	7553 Jan 24 18:13	15° <b>≈</b>		evening set	7559 Mar 31 02:58	26° <b>Ƴ</b> 10′18	
	7552 F. I. 04 02 51	100 1010	0050105		7550 1 16 10 10	2000010112	1000100
conjunction	7553 Feb 04 02:51	16°≈16'12		conjunction	7559 Apr 16 19:48	28° <b>Y</b> 10′12	
minimum elong	7553 Feb 04 02:53	16°≈16'12	0°52'40	minimum elong	7559 Apr 16 19:46		1°29'07
max. Earth dist.	7553 Feb 03 23:04		10.63869 AU	max. Earth dist.	7559 Apr 16 23:16		10.85801 AU
morning rise	7553 Feb 21 03:25	18°≈20'48			7559 May 02 02:19	0° <b>8</b>	
retrograde	7553 Jun 01 12:03	25° <b>≈</b> 40'33		morning rise	7559 May 03 12:58	0° <b>8</b> 10'14	
opposition	7553 Aug 09 01:39	22° <b>≈</b> 20'33	0°50'00	retrograde	7559 Aug 13 19:28	7° <b>8</b> 26'54	
min. Earth dist.	7553 Aug 09 03:30	22°≈20'12	8.67031 AU	opposition	7559 Oct 23 02:33	4° <b>8</b> 06'45	
direct	7553 Oct 18 10:23	18°≈56'29		min. Earth dist.	7559 Oct 22 23:08		8.85679 AU
evening set	7554 Jan 30 13:03	26° <b>≈</b> 27'56		direct	7559 Dec 31 23:17	0° <b>8</b> 47'24	
				evening set	7560 Apr 11 01:20	7° <b>8</b> 59'29	
conjunction	7554 Feb 16 14:42	28°≈32'08	0°27'54				
minimum elong	7554 Feb 16 14:42	28°≈32'09	0°27'58	conjunction	7560 Apr 27 17:34	9° <b>8</b> 59'17	
max. Earth dist.	7554 Feb 16 12:45		10.70041 AU	minimum elong	7560 Apr 27 17:32	9° <b>8</b> 59'17	
	7554 Feb 28 15:14	0° <b>∀</b>		max. Earth dist.	7560 Apr 27 21:00	_	10.84998 AU
morning rise	7554 Mar 05 13:16	0° <b>)</b> 35′29		morning rise	7560 May 14 11:06	11° <b>8</b> 59'29	
retrograde	7554 Jun 13 23:23	7° <b>¥</b> 52'12			7560 Jun 10 11:10	15° <b>8</b>	
opposition	7554 Aug 21 21:43	4° <b>)</b> (32′37		retrograde	7560 Aug 25 06:19	19° <b>8</b> 18'57	
min. Earth dist.	7554 Aug 21 22:46	4° <b>∺</b> 32'25	8.72846 AU	opposition	7560 Nov 03 16:49	15° <b>8</b> 58'10	
direct	7554 Oct 31 08:08	1° <b>)</b> €09'34		min. Earth dist.	7560 Nov 03 13:34		8.84181 AU
evening set	7555 Feb 11 22:13	8° <b>)</b> 35′56			7560 Nov 16 19:10	15°R <b>8</b>	
	#### P	1001/4	00000	direct	7561 Jan 12 07:16	12° <b>8</b> 39'02	
conjunction	7555 Feb 28 21:34	10° <b>)</b> 38'51	0°02'16		7561 Mar 07 06:06	15° <b>8</b>	
minimum elong	7555 Feb 28 21:35	10° <b>₩</b> 38'51	0°02'19	evening set	7561 Apr 23 00:37	19° <b>8</b> 50'57	
behind sun begin	7555 Feb 28 14:32	10° <b>)</b> ₹36'45			######################################	0101.10	1055:
behind sun end	7555 Mar 01 04:38	10° <b>)</b> 40′58		conjunction	7561 May 09 17:06	21° <b>8</b> 51'05	
max. Earth dist.	7555 Feb 28 20:29		10.75460 AU	minimum elong	7561 May 09 17:05	21° <b>8</b> 51'04	
morning rise	7555 Mar 17 18:29	12° <b>)</b> 41′06		max. Earth dist.	7561 May 09 20:41		10.82749 AU
desc. node	7555 Apr 02 05:47	14° <b>∺</b> 28′26		morning rise	7561 May 26 11:40	23° <b>8</b> 51'48	
retrograde	7555 Jun 26 09:14	19° <b>¥</b> 55'45			7561 Jul 29 14:03	0°II	
opposition	7555 Sep 03 15:29	16° <b>¥</b> 36′26		retrograde	7561 Sep 06 20:25	1° <b>Ⅱ</b> 14'46	
min. Earth dist.	7555 Sep 03 16:13	16° <b>X</b> 36'18	8.77805 AU		7561 Oct 16 22:57	30°Ŗ <b>႘</b>	
mm. Earth dist.	7000 Sep 05 10.15						

retrograde

7567 Nov 23 13:37

7567 Dec 23 00:44

15°**Ω**43'47

15°R€

7573 Nov 17 22:35

7574 Feb 12 10:49

retrograde

0°M

5°M51'52

•,•	7574 4 20 15 20	20 <b>M</b> 25112	1056154		7500 1 22 01 47	170750105	
opposition	7574 Apr 20 15:39	2°M25'12		morning rise	7580 Jan 22 01:47	17°る52'05	
min. Earth dist.	7574 Apr 20 17:02	2°M24'55	8.22928 AU	retrograde	7580 May 01 21:23	25°₹23'00	1055105
	7574 May 23 16:54	30° <b>₹</b> Ω		opposition	7580 Jul 08 14:01	22° <b>る</b> 01'52	
direct	7574 Jun 27 07:48	28° <b>≙</b> 57'16		min. Earth dist.	7580 Jul 08 17:09		8.51360 AU
	7574 Jul 31 17:10	0°M₊		direct	7580 Sep 16 08:22	18° <b>る</b> 35'56	
evening set	7574 Oct 10 03:47	6°M58'21		evening set	7580 Dec 30 16:16	26° <b>る</b> 21'16	
	#### A	00741 1 1100	1040104		7501 7 16 22 45	200720102	100404
conjunction	7574 Oct 28 01:29	9°M14'08	1°42'34	conjunction	7581 Jan 16 23:45	28° <b>る</b> 29'03	1°24'04
minimum elong	7574 Oct 28 01:26	9° <b>M</b> ₊14'07	1°42'38	minimum elong	7581 Jan 16 23:48	28° <b>る</b> 29'03	1°24'10
max. Earth dist.	7574 Oct 27 22:53		10.23436 AU	max. Earth dist.	7581 Jan 16 19:43		10.54745 AU
morning rise	7574 Nov 14 21:36	11°M29'29			7581 Jan 29 06:13	0° <b>≈</b>	
	7574 Dec 14 19:32	15°M₁		morning rise	7581 Feb 03 03:19	0° <b>≈</b> 35'42	
retrograde	7575 Feb 26 06:34	19° <b>M</b> 24'57		retrograde	7581 May 14 17:17	8° <b>≈</b> 01'35	
opposition	7575 May 04 07:09	15°M59'05	2°16'08	opposition	7581 Jul 21 17:09	4° <b>≈</b> 41'10	1°31'18
min. Earth dist.	7575 May 04 09:08	15°M58'41	8.24569 AU	min. Earth dist.	7581 Jul 21 20:37	4° <b>≈</b> 40'30	8.58170 AU
	7575 May 16 14:52	15°RM		direct	7581 Sep 29 17:44	1° <b>≈</b> 16′04	
direct	7575 Jul 11 05:22	12°M30'59		evening set	7582 Jan 12 15:58	8° <b>≈</b> 55'46	
	7575 Sep 03 13:33	15°M					
evening set	7575 Oct 24 14:02	20°M33'00		conjunction	7582 Jan 29 20:57	11° <b>≈</b> 02'02	1°02'50
				minimum elong	7582 Jan 29 20:59	11° <b>≈</b> 02'03	1°02'55
conjunction	7575 Nov 11 09:52	22°M48'00	1°55'06	max. Earth dist.	7582 Jan 29 16:37	11° <b>≈</b> 00'42	10.61410 AU
minimum elong	7575 Nov 11 09:50	22°M47'59	1°55'12	morning rise	7582 Feb 15 22:22	13° <b>≈</b> 07'15	
max. Earth dist.	7575 Nov 11 06:23	22°M46'53	10.25853 AU		7582 Mar 03 23:30	15° <b>≈</b>	
morning rise	7575 Nov 29 03:21	25°ML02'18		retrograde	7582 May 27 08:59	20°≈28'53	
	7576 Jan 12 16:02	0° <b>∡</b> ¹		opposition	7582 Aug 03 17:28	17° <b>≈</b> 09'04	1°03'12
retrograde	7576 Mar 10 22:58	2° <b>҂</b> 754'04		min. Earth dist.	7582 Aug 03 21:19	17° <b>≈</b> 08'19	8.64556 AU
, and the second	7576 May 10 12:24	30°RML			7582 Sep 03 03:16	15°R≈	
opposition	7576 May 16 21:54	29°M29'08	2°27'44	direct	7582 Oct 12 22:34	13° <b>≈</b> 44'52	
min. Earth dist.	7576 May 17 01:01	29°M28'31	8.27774 AU		7582 Nov 21 03:18	15° <b>≈</b>	
direct	7576 Jul 24 04:05	26°ML01'04		evening set	7583 Jan 25 09:22	21° <b>≈</b> 19'07	
	7576 Oct 02 16:51	0° <b>%</b>		evening sec	7003 0411 20 07.22	21 10 11 0 7	
evening set	7576 Nov 06 21:20	4° <b>х</b> 02′29		conjunction	7583 Feb 11 11:57	23° <b>≈</b> 23'59	0°38'55
evening sec	75701107 00 21.20	1 7 02 29		minimum elong	7583 Feb 11 11:59	23°≈23'59	0°38'59
conjunction	7576 Nov 24 14:50	6° <b>∡</b> 16′20	2°01'15	max. Earth dist.	7583 Feb 11 07:18		10.67502 AU
minimum elong	7576 Nov 24 14:49	6°×1020	2°01'21	morning rise	7583 Feb 28 11:33	25°≈27'56	10.07302 AC
max. Earth dist.	7576 Nov 24 14:49 7576 Nov 24 10:09		10.29762 AU	morning risc	7583 Apr 11 17:42	25 <b>≈</b> 27 50	
morning rise	7576 Dec 12 05:26	8° 🗷 29'20	10.29702 AU	retrograde	7583 Apr 11 17:42 7583 Jun 08 20:55	2° <b>)</b> 46'17	
retrograde	7577 Mar 24 10:25	16° <b>₹</b> 16'28		retrograde		2 7(4017 30°R≈	
Č			2021100		7583 Aug 09 08:19	30°k≈ 29°≈26'52	0922125
opposition	7577 May 30 11:29	12° <b>∡</b> 52'34 12° <b>∡</b> 51'48		opposition	7583 Aug 16 15:12		
min. Earth dist.	7577 May 30 15:20		8.32351 AU	min. Earth dist.	7583 Aug 16 18:29		8.70264 AU
direct	7577 Aug 07 03:32	9° <b>×</b> <sup>7</sup> 24'47		direct	7583 Oct 26 00:30	26°≈03'35	
evening set	7577 Nov 20 23:48	17° <b>∡</b> 23'58		. ,	7584 Jan 05 22:44	0° <b>)</b> {	
:	7577 Dec 08 14:43	109.7272	2°00'49	evening set	7584 Feb 06 21:28	3° <b>)</b> 32'45	
conjunction minimum elong		19° ₹36'26 19° ₹36'26		conjunction	7584 Feb 23 21:48	5° <b>)</b> 36′19	0012121
C	7577 Dec 08 14:43			3			
max. Earth dist.	7577 Dec 08 09:25		10.34935 AU	minimum elong	7584 Feb 23 21:49	5° <b>¥</b> 36′20	0°13'34
morning rise	7577 Dec 26 02:22	21° 🗷 47'54		behind sun begin behind sun end	7584 Feb 23 17:50	5° <b>)</b> €35'08	
retrograde	7578 Apr 06 18:05	29° <b>×</b> <sup>7</sup> 29'51	2027/20		7584 Feb 24 01:47	5° <b>)</b> (37'31	10.72016 ATT
opposition	7578 Jun 12 23:02	26° 🗷 06'57		max. Earth dist.	7584 Feb 23 18:05		10.72816 AU
min. Earth dist.	7578 Jun 13 02:58	26° ₹ 06'10	8.38038 AU	morning rise	7584 Mar 11 19:36	7° <b>)</b> (39'09	
direct	7578 Aug 21 00:32	22° <b>∡</b> 39'37		retrograde	7584 Jun 20 08:19	14° <b>)</b> (55'13	0000150
	7578 Nov 30 00:51	0°る		opposition	7584 Aug 28 10:40	11° <b>)</b> (35'58	
evening set	7578 Dec 04 20:11	0° <b>る</b> 35'09		min. Earth dist.	7584 Aug 28 12:34	11° <b>)</b> ₹35'36	8.75119 AU
		_		desc. node	7584 Sep 07 18:56	10° <b>)</b> 49′24	
conjunction	7578 Dec 22 08:34	2° <b>る</b> 46'06		direct	7584 Nov 06 22:26	8° <b>∺</b> 13'33	
minimum elong	7578 Dec 22 08:36	2° <b>る</b> 46'07		evening set	7585 Feb 18 04:58	15° <b>∺</b> 38'05	
max. Earth dist.	7578 Dec 22 03:21		10.41080 AU				
morning rise	7579 Jan 08 17:23	4° <b>る</b> 55'57		conjunction	7585 Mar 07 03:16	17° <b>)</b> (40′34	
retrograde	7579 Apr 19 21:57	12° <b>る</b> 32'22		minimum elong	7585 Mar 07 03:15	17° <b>)</b> € 40'33	0°12'19
opposition	7579 Jun 26 07:56	9° <b>る</b> 10'23	2°14'15	behind sun begin	7585 Mar 06 22:32	17° <b>∺</b> 39'08	
min. Earth dist.	7579 Jun 26 11:17	9° <b>る</b> 09'44	8.44507 AU	behind sun end	7585 Mar 07 07:59	17° <b>)</b> 41'58	
direct	7579 Sep 03 18:16	5°₹43'43		max. Earth dist.	7585 Mar 07 01:20		10.77186 AU
evening set	7579 Dec 18 09:44	13° <b>る</b> 34'28		morning rise	7585 Mar 23 23:24	19° <b>)</b> 42′25	
				retrograde	7585 Jul 02 18:24	26° <b>¥</b> 57'11	
conjunction	7580 Jan 04 19:42	15° <b>る</b> 43'51	1°41'29	opposition	7585 Sep 10 04:24	23° <b>)</b> € 37'54	-0°30'33
minimum elong	7580 Jan 04 19:45	15° <b>る</b> 43'52	1°41'35	min. Earth dist.	7585 Sep 10 05:00	23° <b>) (</b> 37′47	8.78967 AU
max. Earth dist.	7580 Jan 04 15:17	15° <b>る</b> 42'28	10.47827 AU	direct	7585 Nov 19 14:41	20° <b>)</b> 16′16	

evening set	7586 Mar 02 08:44	27° <b>)</b> (36′47		conjunction	7592 May 28 06:42	11° <b>Ⅱ</b> 02'55	
				minimum elong	7592 May 28 06:42	11° <b>Ⅱ</b> 02'55	
conjunction	7586 Mar 19 05:04	29° <b>∺</b> 38'18	-0°37'22	max. Earth dist.	7592 May 28 11:22		10.73748 AU
minimum elong	7586 Mar 19 05:03		0°37'23	morning rise	7592 Jun 14 04:27	13° <b>Ⅱ</b> 05'31	
max. Earth dist.	7586 Mar 19 04:34		10.80461 AU	retrograde	7592 Sep 26 09:33	20° <b>Ⅱ</b> 36′23	
	7586 Mar 22 04:43	0° <b>Υ</b>		opposition	7592 Dec 05 18:40	17° <b>Ⅱ</b> 12'54	
morning rise	7586 Apr 04 23:54	1° <b>Y</b> 39'26		min. Earth dist.	7592 Dec 05 14:14		8.71449 AU
retrograde	7586 Jul 15 02:53	8° <b>Y</b> 53'54		direct	7593 Feb 12 13:12	13° <b>∏</b> 52'48	
opposition	7586 Sep 22 20:40	5° <b>Ƴ</b> 34'22		evening set	7593 May 23 19:00	21° <b>Ⅱ</b> 09'52	
min. Earth dist.	7586 Sep 22 20:43	5° <b>Ƴ</b> 34'22	8.81670 AU				
direct	7586 Dec 02 04:59	2° <b>Υ</b> 13'22		conjunction	7593 Jun 09 16:10	23° <b>Ⅱ</b> 12'51	
evening set	7587 Mar 14 10:00	9° <b>Y</b> 30'43		minimum elong	7593 Jun 09 16:11	23° <b>Ⅱ</b> 12'51	
		• •		max. Earth dist.	7593 Jun 09 21:47		10.68657 AU
conjunction	7587 Mar 31 04:32	11° <b>Υ</b> 31'29		morning rise	7593 Jun 26 16:45	25° <b>Ⅱ</b> 16'51	
minimum elong	7587 Mar 31 04:30	11° <b>Υ</b> 31'28			7593 Aug 09 20:26	0.2 0.2	
max. Earth dist.	7587 Mar 31 04:22		10.82524 AU	retrograde	7593 Oct 09 09:30	2°552'18	
morning rise	7587 Apr 16 22:31	13° <b>Y</b> 32'06			7593 Dec 11 15:13	30°RⅡ	
retrograde	7587 Jul 27 11:47	20° <b>℃</b> 47'15		opposition	7593 Dec 18 14:23	29° <b>Ⅱ</b> 28'00	
opposition	7587 Oct 05 11:46	17° <b>Y</b> ′27'19		min. Earth dist.	7593 Dec 18 09:19	29° <b>Ⅱ</b> 28'59	8.65955 AU
min. Earth dist.	7587 Oct 05 11:18	17° <b>Y</b> ′27′24	8.83130 AU	direct	7594 Feb 25 00:36	26° <b>∏</b> 07'30	
direct	7587 Dec 14 16:39	14° <b>Y</b> ′06'48			7594 May 05 10:45	0	
evening set	7588 Mar 25 09:33	21° <b>Y</b> 21'50		evening set	7594 Jun 05 06:33	3° <b>5</b> 27'32	
conjunction	7588 Apr 11 02:46	23° <b>Y</b> ′22'08	-1°21'18	conjunction	7594 Jun 22 06:56	5°532'04	-1°52'19
minimum elong	7588 Apr 11 02:44	23° <b>Y</b> ′22'07	1°21'21	minimum elong	7594 Jun 22 06:57	5° <b>©</b> 32'04	1°52'27
max. Earth dist.	7588 Apr 11 03:39	23° <b>Y</b> 22'24	10.83308 AU	max. Earth dist.	7594 Jun 22 13:30	5° <b>©</b> 34'05	10.62849 AU
morning rise	7588 Apr 27 20:17	25° <b>Y</b> 22'31		morning rise	7594 Jul 09 10:54	7° <b>5</b> 37'43	
	7588 Jun 10 20:53	0°8		retrograde	7594 Oct 22 13:11	15° <b>©</b> 17'50	
retrograde	7588 Aug 07 19:57	2° <b>8</b> 39'19		opposition	7594 Dec 31 12:28	11° <b>©</b> 52'47	-2°10'55
	7588 Oct 07 21:31	30° <b>Ŗ</b> ♈		min. Earth dist.	7594 Dec 31 06:49	11° <b>©</b> 53'52	8.59859 AU
opposition	7588 Oct 17 02:29	29° <b>Ƴ</b> 18'49	-1°50'52	direct	7595 Mar 09 14:37	8° <b>©</b> 31'46	
min. Earth dist.	7588 Oct 17 00:42	29° <b>Y</b> 19'10	8.83294 AU	evening set	7595 Jun 17 23:28	15° <b>©</b> 55'25	
direct	7588 Dec 26 02:18	25° <b>Y</b> 58'41					
	7589 Mar 08 10:14	0°8		conjunction	7595 Jul 05 03:27	18° <b>©</b> 01'44	
evening set	7589 Apr 06 08:17	3° <b>8</b> 12'18		minimum elong	7595 Jul 05 03:30		1°39'07
				max. Earth dist.	7595 Jul 05 10:01		10.56593 AU
conjunction	7589 Apr 23 00:53	5° <b>8</b> 12'26		morning rise	7595 Jul 22 11:18	20° <b>©</b> 09'15	
minimum elong	7589 Apr 23 00:51		1°38'31	retrograde	7595 Nov 04 21:36	27° <b>©</b> 53'55	
max. Earth dist.	7589 Apr 23 03:42		10.82781 AU	opposition	7596 Jan 13 13:07	24°528'11	
morning rise	7589 May 09 18:19	7° <b>8</b> 12'51		min. Earth dist.	7596 Jan 13 07:40		8.53459 AU
retrograde	7589 Aug 20 07:42	14° <b>8</b> 32'14		direct	7596 Mar 21 07:42	21° <b>©</b> 06'30	
opposition	7589 Oct 29 17:11	11° <b>8</b> 11'04		evening set	7596 Jun 29 22:33	28°934'24	
min. Earth dist.	7589 Oct 29 13:43		8.82145 AU		7596 Jul 11 13:03	$0$ $\circ$ $\Omega$	
direct	7590 Jan 07 11:57	7° <b>8</b> 51'11			550 ( X 1 15 0 ( 20	00.04000	1000111
	7590 Apr 17 17:09	15° <b>8</b>		conjunction	7596 Jul 17 06:29	0° <b>Ω</b> 42'39	
evening set	7590 Apr 18 07:40	15° <b>8</b> 04'18		minimum elong	7596 Jul 17 06:31	0° <b>Ω</b> 42'39	
	7500 14 05 00 17	170 407	1051106	max. Earth dist.	7596 Jul 17 12:06		10.50201 AU
conjunction	7590 May 05 00:17	17° <b>8</b> 04'37		morning rise	7596 Aug 03 18:30	2° <b>Ω</b> 52'06	
minimum elong	7590 May 05 00:15	17° <b>8</b> 04'36		retrograde	7596 Nov 17 09:28	10° <b>Ω</b> 40'57	100/11/4
max. Earth dist.	7590 May 05 04:34	_	10.80958 AU	opposition	7597 Jan 25 16:23	7° <b>Ω</b> 14'40	
morning rise	7590 May 21 18:19	19° <b>8</b> 05'25		min. Earth dist.	7597 Jan 25 11:56		8.47083 AU
retrograde	7590 Sep 01 22:33	26° <b>8</b> 28'03	2022120	direct	7597 Apr 03 04:14	3° <b>£</b> 52′12	
opposition	7590 Nov 11 08:16	23° <b>8</b> 06'09		evening set	7597 Jul 13 04:11	11° <b>Ω</b> 24'51	
min. Earth dist.	7590 Nov 11 04:02		8.79718 AU		7507 I1 20 16.11	120 025101	0050112
direct	7591 Jan 19 18:41	19° <b>8</b> 46'22		conjunction	7597 Jul 30 16:11	13° <b>Ω</b> 35'01	
evening set	7591 Apr 30 08:38	26° <b>8</b> 59'56		minimum elong max. Earth dist.	7597 Jul 30 16:13 7597 Jul 30 20:53	13° <b>Ω</b> 35'02	10.43986 AU
conjunction	7501 May 17 01.51	29° <b>8</b> 00'46	1050/40	max. Earth UISt.		13° <b>8ℓ</b> 3629	10.43700 AU
conjunction	7591 May 17 01:51	29° <b>8</b> 00'46		morning rise	7597 Aug 11 01:17	15° <b>8</b> € 15° <b>Ω</b> 46'23	
minimum elong max. Earth dist.	7591 May 17 01:50		1°59′45 10.77905 AU	morning rise	7597 Aug 17 08:09 7597 Nov 30 23:40	15°8746°23 23°€€38'53	
max. Earm dist.	7591 May 17 06:19	29° <b>O</b> 02′08	10.77903 AU	retrograde		23°δ(38'53 20°Ω12'10	-0°56'16
morning ris-	7591 May 25 05:25 7591 Jun 02 21:21	0°Д 1°Д02'19		opposition	7598 Feb 07 22:15		
morning rise	7.371.JUH UZ ZEZE	т ш02/19		min. Earth dist.	7598 Feb 07 18:44		8.41040 AU
retrograde		Q0TT 20140			7508 Ann 16 06.11		
opposition	7591 Sep 14 14:03	8°∏28'48	2020142	direct	7598 Apr 16 06:11	16° <b>Ω</b> 48'52	
opposition	7591 Sep 14 14:03 7591 Nov 24 00:39	5° <b>Ⅱ</b> 06'09		evening set	7598 Apr 16 06:11 7598 Jul 26 16:31	16°8 (48'52 24° Ω26'33	
min. Earth dist.	7591 Sep 14 14:03 7591 Nov 24 00:39 7591 Nov 23 20:21	5°П06'09 5°П06'58	-2°29'42 8.76103 AU	evening set	7598 Jul 26 16:31	24° <b>£</b> 26'33	-0°32'27
**	7591 Sep 14 14:03 7591 Nov 24 00:39	5° <b>Ⅱ</b> 06'09			•		

max. Earth dist.	7598 Aug 13 12	2:31 26° <b>Ω</b> 39'51	10.38238 AU
morning rise	7598 Aug 31 03	3:36 28° <b>Ω</b> 51'35	
	7598 Sep 09 13	3:46 0°Mp	
retrograde	7598 Dec 14 10	6:18 6° Mp 47'02	
opposition	7599 Feb 21 0	6:28 3° m/20'02	-0°22'58
min. Earth dist.	7599 Feb 21 03	3:31 3° m/20'37	8.35620 AU
	7599 Apr 20 18	8:48 30° <b>ŖΩ</b>	
direct	7599 Apr 29 12	2:28 29° <b>Ω</b> 55'50	
	7599 May 08 04	4:27 0° Mp	
evening set	7599 Aug 09 1	1:21 7° <b>m</b> <sub>2</sub> 38'37	
conjunction	7599 Aug 27 0		-0°04'44
minimum elong	7599 Aug 27 0		0°04'46
behind sun begin	7599 Aug 26 23	•	
behind sun end	7599 Aug 27 13	-	
max. Earth dist.	7599 Aug 27 09	9:51 9° m 53'14	10.33230 AU
morning rise	7599 Sep 14 04	4:06 12° Mp 06'36	
asc. node	7599 Oct 28 23	•	
retrograde	7599 Dec 28 12	2:39 20° m 04'09	
opposition	7600 Mar 05 10	6:52 16° m/36'59	0°11'57
min. Earth dist.	7600 Mar 05 14		8.31065 AU
direct	7600 May 11 2	1:14 13° Mp 11'53	
evening set	7600 Aug 22 12	2:00 20° <b>m</b> 59'37	
:	7600 5 00 00	0.25 229 m 1 4125	0022127
conjunction	7600 Sep 09 09		0°23'36
minimum elong	7600 Sep 09 09	-	0°23'36
max. Earth dist.	7600 Sep 09 11		10.29159 AU
morning rise	7600 Sep 27 08		
	7600 Nov 06 03		
retrograde	7601 Jan 10 10		
opposition	7601 Mar 19 0:		0°46'34
min. Earth dist.	7601 Mar 19 04		8.27532 AU
	7601 Mar 19 12		
direct	7601 May 25 10	•	
	7601 Jul 28 0		
evening set	7601 Sep 05 17	7:41 4° <b>≗</b> 27'55	
conjunction	7601 Sep 23 16	6:18 6° <b>≙</b> 43'31	0°50'46
minimum elong	7601 Sep 23 16		0°50'47
max. Earth dist.	_	5:51 6° <b>≗</b> 43'22	10.26174 AU
morning rise	•	5:47 8° <b>♀</b> 59'26	10.20177 AU
morning 1150	/001 OCt 11 1.	J.71 0 == 39 20	