opposition	10100 Feb 18 23:19	4° m 10'18	1000120		10105 Nov 02 07:02	15° <b>M</b> ₊	
		•					
min. Earth dist.	10100 Feb 18 15:58	4° Mp 11'44	8.63462 AU	morning rise	10105 Nov 15 23:36	16°M41'54	
direct	10100 Apr 28 02:52	0° m/49'31		retrograde	10106 Feb 28 09:57	24°M33'04	1046114
evening set	10100 Aug 06 13:36	8° Mp 10'50		opposition	10106 May 07 08:49	21°M07'06	1°46'11
				min. Earth dist.	10106 May 07 10:51	21°M06'42	8.36665 AU
conjunction	10100 Aug 23 21:02	10° <b>m</b> 17'19		direct	10106 Jul 13 23:56	17° <b>M</b> 41'39	
minimum elong	10100 Aug 23 21:04	10° Mp 17'19	0°45'17	evening set	10106 Oct 25 07:36	25°M29'08	
max. Earth dist.	10100 Aug 24 06:07	10° Mp 20'06	10.61241 AU				
morning rise	10100 Sep 10 07:56	12° <b>m</b> 24'51		conjunction	10106 Nov 12 03:12	27° <b>M</b> 42'27	1°33'57
retrograde	10100 Dec 24 06:56	20° Mp 04'27		minimum elong	10106 Nov 12 03:10	27° <b>M</b> 42'26	1°34'19
opposition	10101 Mar 03 20:16	16° Mp 39'30	-0°40'42	max. Earth dist.	10106 Nov 11 23:20	27° <b>M</b> 41'14	10.35100 AU
min. Earth dist.	10101 Mar 03 13:21	16° Mp 40'51	8.58968 AU	morning rise	10106 Nov 29 23:03	29°M55'55	
direct	10101 May 10 18:07	13° <b>m</b> 18'10			10106 Nov 30 12:20	0° <b>∡</b> ¹	
evening set	10101 Aug 19 11:24	20° Mp 42'44		retrograde	10107 Mar 14 01:30	7° <b>∡</b> ¹47'42	
C	Č			opposition	10107 May 20 17:05	4° <b>∡</b> ¹21'55	2°05'24
conjunction	10101 Sep 05 22:02	22° m 50'38	-0°20'49	min. Earth dist.	10107 May 20 20:26	4° <b>∡</b> ¹21'14	8.33973 AU
minimum elong	10101 Sep 05 22:03	22° m 50'39	0°20'55	direct	10107 Jul 27 10:29	0° <b>х</b> 55'41	
max. Earth dist.	10101 Sep 06 05:47	-•	10.56620 AU	evening set	10107 Nov 08 09:40	8° <b>×</b> <sup>7</sup> 47'10	
morning rise	10101 Sep 30 03:47	24° m 59'35	10.30020710	evening set	10107 1107 00 07.40	0 % 47 10	
morning rise	10101 Nov 09 10:14	0° <b>ت</b>		conjunction	10107 Nov 26 05:09	11° <b>₹</b> '00'49	1°46'51
retrograde	10101 Nov 09 10:14 10102 Jan 06 13:14	0 <b>=</b> 2° <b>£</b> 42'01		minimum elong	10107 Nov 26 05:07	11° <b>x</b> 00'49	1°47'15
renograde				_			
••	10102 Mar 07 12:27	30°R Mp	0000140	max. Earth dist.	10107 Nov 25 23:14		10.32912 AU
opposition	10102 Mar 16 18:53	29° m 16'39		morning rise	10107 Dec 14 00:06	13° 🖈 14'24	
min. Earth dist.	10102 Mar 16 13:19	-•	8.54227 AU	retrograde	10108 Mar 26 17:28	21° <b>×</b> 05'50	2015150
direct	10102 May 23 11:47	25° m 54'36		opposition	10108 Jun 02 02:58	17° <b>∡</b> ′40′21	2°17'59
asc. node	10102 Jul 11 03:33	27° m 55'39		min. Earth dist.	10108 Jun 02 08:02	17° <b>∡</b> ³39′20	8.32382 AU
	10102 Aug 02 18:09	0∘ <b>⊽</b>		direct	10108 Aug 08 23:53	14° <b>∡</b> °13′28	
evening set	10102 Sep 01 14:33	3° <b>≏</b> 23'05		evening set	10108 Nov 21 12:53	22° <b>∡</b> °07'58	
		_				_	
conjunction	10102 Sep 19 04:03	5° <b>£</b> 32'23	0°04'47	conjunction	10108 Dec 09 07:46	24° <b>∡</b> ′21'41	1°54'03
minimum elong	10102 Sep 19 04:02	5° <b>≏</b> 32'23	0°04'48	minimum elong	10108 Dec 09 07:45	24° <b>∡</b> ′21'40	1°54'29
behind sun begin	10102 Sep 18 20:59	5° <b>≏</b> 30'14		max. Earth dist.	10108 Dec 08 23:45	24° <b>∡</b> 19'09	10.31890 AU
behind sun end	10102 Sep 19 11:04	5° <b>≙</b> 34'32		morning rise	10108 Dec 27 01:29	26° <b>∡</b> ³35′05	
max. Earth dist.	10102 Sep 19 09:06	5° <b>≏</b> 33'55	10.51817 AU		10109 Jan 25 09:39	0° <b>ප</b>	
morning rise	10102 Oct 06 20:40	7° <b>£</b> 42'38		retrograde	10109 Apr 09 07:41	4° <b>₹</b> 25'13	
retrograde	10103 Jan 19 21:10	15° <b>≙</b> 27'45		opposition	10109 Jun 15 13:47	1° <b>⋜</b> 00'11	2°23'12
opposition	10103 Mar 29 19:19	12° <b>₽</b> 02'03	0°21'56	min. Earth dist.	10109 Jun 15 20:25	0° <b>ಕ</b> 58'51	8.31975 AU
min. Earth dist.	10103 Mar 29 16:08	12° <b>≏</b> 02'41	8.49385 AU		10109 Jun 28 05:12	30°R. <b>✓</b>	
direct	10103 Jun 05 09:41	8° <b>亞</b> 39'11		direct	10109 Aug 22 17:07	27° <b>∡</b> ³32'48	
evening set	10103 Sep 14 23:17	16° <b>≏</b> 12'10			10109 Oct 15 20:49	8°0	
Ü	1			evening set	10109 Dec 05 16:03	5° <b>る</b> 29'10	
conjunction	10103 Oct 02 15:08	18° <b>≙</b> 22'46	0°30'17	C			
minimum elong	10103 Oct 02 15:07	18° <b>≙</b> 22'45	0°30'24	conjunction	10109 Dec 23 10:01	7° <b>る</b> 42'39	1°55'08
max. Earth dist.	10103 Oct 02 16:57	18° <b>≏</b> 23'19	10.46982 AU	minimum elong	10109 Dec 23 10:01	7° <b>る</b> 42'39	1°55'34
morning rise	10103 Oct 20 09:46	20° <b>♀</b> 34'12		max. Earth dist.	10109 Dec 23 00:25		10.32076 AU
retrograde	10104 Feb 02 07:51	28° <b>£</b> 21'47		morning rise	10110 Jan 10 02:12	9° <b>⋜</b> 55'38	10.520,0110
opposition	10104 Apr 10 21:43	24° <b>Ω</b> 55'54	0°52'55	retrograde	10110 Jun 10 02:12	17° <b>石</b> 43'34	
min. Earth dist.	10104 Apr 10 20:58	24° <b>⊆</b> 56'02	8.44637 AU	opposition	10110 Apr 22 19:03 10110 Jun 29 00:52	14°る19'03	2°20'42
direct	10104 Jun 17 10:19	21° <b>Ω</b> 32'09	0.44037710	min. Earth dist.	10110 Jun 29 08:25	14° <b>る</b> 17'33	8.32753 AU
	10104 Sun 17 10:19 10104 Sep 27 13:22	21° <b>⊆</b> 32'09 29° <b>⊆</b> 10'03		direct	10110 Juli 29 08:23	14 <b>3</b> 1733	6.32733 AU
evening set	10104 Sep 27 13.22 10104 Oct 04 08:03	0°M		evening set	10110 Sep 03 11.31 10110 Dec 19 17:32	10 <b>3</b> 31 22	
	10104 Oct 04 08:03	U-IIL		evening set	10110 Dec 19 17:32	18 048 18	
conjunction	10104 Oct 15 07:06	1° <b>M</b> 21'47	0°54'31	conjunction	10111 Jan 06 10:19	21° <b>る</b> 01'20	1°50'03
minimum elong	10104 Oct 15 07:04	1°M21'47	0°54'44	minimum elong	10111 Jan 06 10:20	21°る01'20	1°50'28
max. Earth dist.	10104 Oct 15 06:38		10.42373 AU	max. Earth dist.	10111 Jan 06 00:08		10.33441 AU
		3°M34'12	10.42373 AU		10111 Jan 24 00:41	20 <b>ප</b> 3807 23° <b>ප</b> 13'39	10.33441 AO
morning rise	10104 Nov 02 02:56	11°M23'54		morning rise		23° <b>⊙</b> 13′39	
retrograde	10105 Feb 14 20:31		1921122		10111 Apr 03 04:48		
opposition	10105 Apr 24 02:16	7°M57'54	1°21'32	retrograde	10111 May 06 06:01	0°≈58'41	
min. Earth dist.	10105 Apr 24 03:05	7°M57'44	8.40298 AU	*.*	10111 Jun 08 17:13	30°₹₹	2010111
direct	10105 Jun 30 15:07	4°M33'17		opposition	10111 Jul 12 11:58	27°る34'45	
evening set	10105 Oct 11 08:20	12°M16'08		min. Earth dist.	10111 Jul 12 19:24	27° <b>පි</b> 33'16	8.34660 AU
_				direct	10111 Sep 19 06:00	24° <b>る</b> 07'01	
conjunction	10105 Oct 29 03:22	14°M28'48	1°16'09		10111 Dec 16 12:10	0° <b>≈</b>	
minimum elong	10105 Oct 29 03:20	14° <b>M</b> 28'47	1°16'27	evening set	10112 Jan 02 15:52	2° <b>≈</b> 03'09	
max. Earth dist.	10105 Oct 29 01:11	14°M28'07	10.38322 AU				

conjunction	10112 Jan 20 07:15	4° <b>≈</b> 15'31	1°39'08	direct	10117 Dec 07 08:03	11° <b>Ƴ</b> 20′26	
minimum elong	10112 Jan 20 07:17	4° <b>≈</b> 15'32	1°39'31	evening set	10118 Mar 21 07:41	18° <b>Ƴ</b> 55'26	
max. Earth dist.	10112 Jan 19 21:42	4°≈12'30	10.35899 AU				
morning rise	10112 Feb 06 19:36	6°≈27'00		conjunction	10118 Apr 07 09:18	21° <b>Y</b> '00'42	-0°35'15
retrograde	10112 May 18 14:54	14° <b>≈</b> 08'37		minimum elong	10118 Apr 07 09:16	21° <b>Y</b> ′00'41	0°35'22
opposition	10112 Jul 24 22:29	10° <b>≈</b> 45'17	1°53'49	max. Earth dist.	10118 Apr 07 07:55	21° <b>℃</b> 00'16	10.63275 AU
min. Earth dist.	10112 Jul 25 05:27	10°≈43'54	8.37584 AU	morning rise	10118 Apr 24 08:20	23°Υ05'14	10.00270110
direct	10112 Jul 23 03:27	7°≈17'44	0.57504710	morning rise	10118 Jul 10 21:50	0°8	
direct	10112 Oct 01 25:15	7 ∞17 <del>11</del>		retrograde	10118 Aug 03 09:47	0° <b>8</b> 28'33	
. ,				renograde	=	0 <b>O</b> 28 33	
evening set	10113 Jan 15 10:27	15°≈11'56			10118 Aug 27 03:18		0057141
	10112 5 1 02 00 10	1.50 0010.5	1000107	opposition	10118 Oct 11 07:11	27°Υ08'16	
conjunction	10113 Feb 02 00:10	17° <b>≈</b> 23′25	1°23'06	min. Earth dist.	10118 Oct 11 07:12	27° <b>Y</b> 08'16	8.65599 AU
minimum elong	10113 Feb 02 00:12	17° <b>≈</b> 23′26	1°23'25	direct	10118 Dec 20 09:06	23° <b>Y</b> 45'20	
max. Earth dist.	10113 Feb 01 15:24		10.39311 AU		10119 Mar 23 04:03	$9^{\circ}$ 8	
morning rise	10113 Feb 19 10:24	19° <b>≈</b> 33'56		evening set	10119 Apr 02 22:15	1° <b>8</b> 16'08	
retrograde	10113 May 31 20:33	27° <b>≈</b> 11'50					
opposition	10113 Aug 07 07:52	23° <b>≈</b> 49′09	1°31'11	conjunction	10119 Apr 19 21:15	3° <b>8</b> 20'08	-0°58'03
min. Earth dist.	10113 Aug 07 14:37	23° <b>≈</b> 47'49	8.41371 AU	minimum elong	10119 Apr 19 21:14	3° <b>8</b> 20'08	0°58'16
direct	10113 Oct 15 15:24	20° <b>≈</b> 21'59		max. Earth dist.	10119 Apr 19 21:48	3° <b>8</b> 20'18	10.67776 AU
evening set	10114 Jan 29 00:37	28°≈13'20		morning rise	10119 May 06 18:20	5° <b>8</b> 23'36	
C	10114 Feb 12 08:19	0° <b>)</b> €		retrograde	10119 Aug 16 00:57	12° <b>8</b> 45'39	
				opposition	10119 Oct 24 06:32	9° <b>8</b> 25'31	-1°24'08
conjunction	10114 Feb 15 12:16	0° <b>)</b> 23'46	1°02'55	min. Earth dist.	10119 Oct 24 05:28	9° <b>8</b> 25'43	8.69858 AU
minimum elong	10114 Feb 15 12:18	0° <b>)</b> €23'47		direct	10120 Jan 02 08:03	6°803'28	
max. Earth dist.	10114 Feb 15 04:03		10.43492 AU	evening set	10120 Apr 14 09:07	13° <b>8</b> 30'23	
morning rise	10114 Mar 04 20:21	2° <b>X</b> 33'10	10.13172110	evening sec	10120 Apr 26 16:58	15° <b>8</b>	
retrograde	10114 Jun 13 23:47	10° <b>)</b> €07'22			10120 Apr 20 10.30	13 0	
opposition	10114 Juli 13 25:47 10114 Aug 20 16:04	6° <b>¥</b> 45'20	1°04'06	conjunction	10120 May 01 05:48	15° <b>8</b> 33'16	1010101
min. Earth dist.	_	6° <del>X</del> 44'03	8.45825 AU	minimum elong	•	15° <b>8</b> 33'16	
	10114 Aug 20 22:33	3° <b>¥</b> 18'47	6.43623 AU	Č	10120 May 01 05:46	_	
direct	10114 Oct 29 05:10			max. Earth dist.	10120 May 01 07:32	_	10.71682 AU
evening set	10115 Feb 11 09:43	11° <b>)</b> €06'32		morning rise	10120 May 18 01:25	17° <b>8</b> 35'50	
				retrograde	10120 Aug 27 15:41	24° <b>8</b> 57'15	
conjunction	10115 Feb 28 18:59	13° <b>)</b> 15'45	0°39'44	opposition	10120 Nov 05 04:14	21° <b>8</b> 37'07	
minimum elong	10115 Feb 28 19:01	13° <b>)</b> 15′46		min. Earth dist.	10120 Nov 05 01:47	_	8.73427 AU
max. Earth dist.	10115 Feb 28 11:22		10.48224 AU	direct	10121 Jan 14 04:48	18° <b>8</b> 15'51	
morning rise	10115 Mar 18 00:55	15° <b>¥</b> 23′58		evening set	10121 Apr 26 17:00	25° <b>8</b> 39'17	
retrograde	10115 Jun 26 23:22	22° <b>)</b> 54′43					
opposition	10115 Sep 02 22:37	19° <b>∺</b> 33'16	0°34'07	conjunction	10121 May 13 11:53	27° <b>8</b> 41'17	-1°34'22
min. Earth dist.	10115 Sep 03 04:14	19° <b>)</b> 32′10	8.50723 AU	minimum elong	10121 May 13 11:51	27° <b>8</b> 41'17	1°34'44
direct	10115 Nov 11 16:57	16° <b>)</b> €07'30		max. Earth dist.	10121 May 13 15:23	27° <b>8</b> 42'21	10.74804 AU
evening set	10116 Feb 24 13:51	23° <b>)</b> 51′11		morning rise	10121 May 30 06:24	29° <b>8</b> 43'09	
					10121 Jun 01 15:04	$\Pi^{\circ}0$	
conjunction	10116 Mar 12 20:36	25° <b>¥</b> 59'06	0°14'50	retrograde	10121 Sep 09 04:56	7° <b>Ⅱ</b> 04'34	
minimum elong	10116 Mar 12 20:37	25° <b>)</b> 59′06	0°14'55	opposition	10121 Nov 18 00:23	3° <b>Ⅱ</b> 44'16	-2°04'06
behind sun begin	10116 Mar 12 17:52	25° <b>)</b> 58′15		min. Earth dist.	10121 Nov 17 20:05	3° <b>Ⅱ</b> 45′05	8.76128 AU
behind sun end	10116 Mar 12 23:22	25° <b>¥</b> 59'57		direct	10122 Jan 26 22:07	0° <b>Ⅲ</b> 23'41	
max. Earth dist.	10116 Mar 12 14:18	25° <b>¥</b> 57'09	10.53270 AU	evening set	10122 May 08 22:32	7° <b>Ⅱ</b> 44'08	
morning rise	10116 Mar 30 00:19	28° <b>¥</b> 06'06		C	Ž		
Č	10116 Apr 15 01:52	0° <b>Υ</b>		conjunction	10122 May 25 16:22	9° <b>∏</b> 45'31	-1°46'27
retrograde	10116 Jul 08 19:47	5° <b>Υ</b> 33'47		minimum elong	10122 May 25 16:20	9° <b>∏</b> 45'30	
opposition	10116 Sep 15 03:12	2°Υ12'50	0°02'48	max. Earth dist.	10122 May 25 10:20		10.76982 AU
min. Earth dist.	10116 Sep 15 07:03	2°Υ12'06	8.55818 AU	morning rise	10122 Jun 11 10:18	11° <b>Ⅱ</b> 46'57	
min. Luttii dist.	10116 Oct 16 08:45	30° <b>₹</b>	0.55010110	retrograde	10122 Sep 21 18:58	19° <b>Ⅱ</b> 08'59	
daga nada	10116 Oct 16 08:43	29° <b>¥</b> 52'35			10122 Sep 21 18:38 10122 Nov 30 19:23	15° <b>Ⅱ</b> 48'21	2016/04
desc. node direct	10116 Oct 18 12:37 10116 Nov 24 02:31	29° <del>X</del> 52'35 28° <del>X</del> 47'59		opposition min. Earth dist.	10122 Nov 30 19:23 10122 Nov 30 13:17		-2°16'04 8.77799 AU
direct		28 <b>π</b> 4739 0° <b>Υ</b>				13 <b>Д</b> 4930 12° <b>Д</b> 28'17	8.77799 AU
	10117 Jan 01 04:09			direct	10123 Feb 08 13:47		
evening set	10117 Mar 08 13:03	6° <b>Ƴ</b> 27'21		evening set	10123 May 21 02:30	19° <b>∏</b> 46′23	
	1011734 25 15 1	00000000	0010/20		10122 1 00 10 50	010T /500	1053140
conjunction	10117 Mar 25 17:17	8° <b>Υ</b> 33'56		conjunction	10123 Jun 06 19:56	21° <b>II</b> 47'28	
minimum elong	10117 Mar 25 17:17	8°Υ33'56	0~10/39	minimum elong	10123 Jun 06 19:55	21° <b>II</b> 47'27	
behind sun begin	10117 Mar 25 11:47	8° <b>Υ</b> 32'15		max. Earth dist.	10123 Jun 07 03:10		10.78057 AU
behind sun end	10117 Mar 25 22:47	8° <b>Ƴ</b> 35'37		morning rise	10123 Jun 23 14:08	23° <b>∏</b> 48'48	
max. Earth dist.	10117 Mar 25 13:18	8° <b>Y</b> 32'43	10.58369 AU		10123 Aug 27 02:38	$0$ $\circ$ $\odot$	
morning rise	10117 Apr 11 18:39	10° <b>Y</b> 39'40		retrograde	10123 Oct 04 10:58	1° <b>©</b> 12'00	
retrograde	10117 Jul 21 15:56	18° <b>Y</b> ′04'53			10123 Nov 12 13:27	30°RⅡ	
opposition	10117 Sep 28 06:03	14° <b>Ƴ</b> 44'19		opposition	10123 Dec 13 13:29	27° <b>Ⅱ</b> 50'58	
min. Earth dist.	10117 Sep 28 07:49	14° <b>Y</b> 43'59	8.60853 AU	min. Earth dist.	10123 Dec 13 06:53	27° <b>Ⅱ</b> 52'13	8.78286 AU

direct	10124 Feb 21 02:15	24° <b>∏</b> 31'14		min. Earth dist.	10130 Feb 25 22:55	11° <b>m</b> 05'24	8.59879 AU
	10124 May 16 16:59	$0$ $\circ$ $\odot$		direct	10130 May 05 04:28	7° <b>m</b> 42'45	
evening set	10124 Jun 01 06:04	1° <b>©</b> 47'45		evening set	10130 Aug 13 18:59	15° Mp 06'04	
. ,.	10124 1 17 22 47	20540152	1057100	· ,·	10120 4 21 04 04	170 m. 12127	0022124
conjunction	10124 Jun 17 23:47	3°548'53		conjunction	10130 Aug 31 04:04	17° Mp 13'27	
minimum elong	10124 Jun 17 23:47	3°548'53	1°56'35	minimum elong	10130 Aug 31 04:05	17° Mp 13'27	
max. Earth dist.	10124 Jun 18 07:02		10.77918 AU	max. Earth dist.	10130 Aug 31 10:17		10.57351 AU
morning rise	10124 Jul 04 19:06	5° <b>©</b> 50'29		morning rise	10130 Sep 17 16:51	19° <b>m</b> ) 21'55	
retrograde	10124 Oct 16 01:37	13° <b>©</b> 15'25		retrograde	10130 Dec 31 15:56	27° <b>m</b> 03'27	
opposition	10124 Dec 25 07:04	9° <b>©</b> 53'53		opposition	10131 Mar 11 02:28	23° m 37'44	
min. Earth dist.	10124 Dec 25 00:32	9° <b>©</b> 55'07	8.77543 AU	min. Earth dist.	10131 Mar 10 21:54	-	8.54781 AU
direct	10125 Mar 04 13:03	6° <b>ॐ</b> 34'18		direct	10131 May 17 22:24	20° Mp 15'23	
evening set	10125 Jun 13 09:58	13° <b>©</b> 50'05		evening set	10131 Aug 26 19:34	27° <b>m</b> 42'31	
conjunction	10125 Jun 30 04:50	15° <b>©</b> 51'37	-1°53'24	conjunction	10131 Sep 13 07:53	29° <b>m</b> 51'22	-0°07'20
minimum elong	10125 Jun 30 04:51	15° <b>©</b> 51'37		minimum elong	10131 Sep 13 07:53	29° m 51'22	0°07'22
max. Earth dist.	10125 Jun 30 12:09		10.76605 AU	behind sun begin	10131 Sep 13 01:18	29° m/49'22	0 0, 22
morning rise	10125 Jul 17 02:02	17° <b>©</b> 53'48	10.70003710	behind sun end	10131 Sep 13 01:10	29° m 53'23	
retrograde	10125 Oct 28 17:41	25° <b>©</b> 20'59		max. Earth dist.	10131 Sep 13 14.27 10131 Sep 13 13:10		10.52215 AU
-	10125 Oct 28 17.41 10126 Jan 07 00:43	23 <b>3</b> 20 39 21° <b>3</b> 58'48	2015!10	max. Earth dist.		0° <b>⊽</b>	10.32213 AU
opposition min. Earth dist.		21 \$3848 22°\$00'04			10131 Sep 14 11:50	0 <u>≈</u> 2° <b>Ω</b> 01'14	
	10126 Jan 06 18:00		8.75671 AU	morning rise	10131 Sep 30 23:27		
direct	10126 Mar 17 01:51	18°939'09		asc. node	10131 Dec 30 03:57	9° <b>Ω</b> 34'22	
evening set	10126 Jun 25 15:00	25° <b>©</b> 54'54		retrograde	10132 Jan 13 22:54	9° <b>Ω</b> 45'45	
		_		opposition	10132 Mar 23 02:11	6° <b>≏</b> 19'31	0°07'07
conjunction	10126 Jul 12 11:56	27° <b>©</b> 57'10		min. Earth dist.	10132 Mar 22 22:25	6° <b>≏</b> 20'16	8.49648 AU
minimum elong	10126 Jul 12 11:58	27° <b>©</b> 57'10		direct	10132 May 29 19:13	2° <b>ჲ</b> 56′23	
max. Earth dist.	10126 Jul 12 20:18		10.74240 AU	evening set	10132 Sep 08 01:39	10° <b>≏</b> 27'49	
morning rise	10126 Jul 29 11:36	0° <b>Ω</b> 00'14					
	10126 Jul 29 10:50	$0$ $^{\circ}$ $\Omega$		conjunction	10132 Sep 25 16:40	12° <b>≏</b> 38′05	0°18'27
retrograde	10126 Nov 10 13:16	7° <b>Ω</b> 29'59		minimum elong	10132 Sep 25 16:39	12° <b>≏</b> 38'04	0°18'32
opposition	10127 Jan 19 18:31	4° <b>Ω</b> 07'03	-2°02'47	max. Earth dist.	10132 Sep 25 20:50	12° <b>₽</b> 39'22	10.47149 AU
min. Earth dist.	10127 Jan 19 11:03	4° <b>Ω</b> 08'28	8.72805 AU	morning rise	10132 Oct 13 10:26	14° <b>≏</b> 49'13	
direct	10127 Mar 29 13:32	0° <b>Ω</b> 47'10		retrograde	10133 Jan 26 09:44	22° <b>≏</b> 36'27	
evening set	10127 Jul 07 22:28	8° <b>Ω</b> 03'36		opposition	10133 Apr 05 03:57	19° <b>≙</b> 09'54	0°38'42
-				min. Earth dist.	10133 Apr 05 01:09	19° <b>≏</b> 10'27	8.44724 AU
conjunction	10127 Jul 24 22:04	10° <b>Ω</b> 06'54	-1°33'04	direct	10133 Jun 11 17:41	15° <b>≏</b> 45'54	
minimum elong	10127 Jul 24 22:06	10° <b>Ω</b> 06'54	1°33'26	evening set	10133 Sep 21 13:31	23° <b>≏</b> 22'07	
max. Earth dist.	10127 Jul 25 07:10	10°Ω09'40	10.70959 AU	Ü	1		
morning rise	10127 Aug 11 00:39	12°Ω11'06		conjunction	10133 Oct 09 06:37	25° <b>≏</b> 33'35	0°43'29
	10127 Sep 04 20:22	15° <b>Ω</b>		minimum elong	10133 Oct 09 06:36	25° <b>₽</b> 33'35	
retrograde	10127 Nov 23 10:27	19° <b>Ω</b> 43'36		max. Earth dist.	10133 Oct 09 08:34		10.42408 AU
opposition	10128 Feb 01 12:41	16° <b>Ω</b> 19'55	-1°44'30	morning rise	10133 Oct 27 01:58	27° <b>Ω</b> 45'48	10.12100710
min. Earth dist.	10128 Feb 01 05:01		8.69095 AU	morning risc	10133 Nov 15 01:14	0°M	
mm. Earm dist.	10128 Feb	10 <b>8</b> 21 23	8.09093 AU	retrograde	10134 Feb 08 22:22	5°M35'19	
direct	10128 Apr 10 00:35	13° <b>€</b> 59'37		opposition	10134 Apr 18 07:46	2°M08'38	1°08'40
direct	*	12 <b>0</b> 23937 15° <b>Ω</b>		min. Earth dist.	•	2°M08'49	8.40265 AU
	10128 May 28 22:49 10128 Jul 19 09:09	20° <b>Ω</b> 17'35		iiiii. Eartii dist.	10134 Apr 18 06:52 10134 May 17 08:15	2 1160849 30°R <b>Ω</b>	8.40203 AU
evening set	10128 Jul 19 09.09	20 861/33		direct	•		
aaniumatiam	10129 Aug 05 11.42	220 (222)07	1016/12	direct	10134 Jun 24 20:07	28° <b>≏</b> 43'47	
conjunction	10128 Aug 05 11:42 10128 Aug 05 11:45	22° <b>Ω</b> 22'06			10134 Aug 01 21:51	0°M	
minimum elong	ū	22° <b>Ω</b> 22'07		evening set	10134 Oct 05 06:40	6° <b>™</b> 24'57	
max. Earth dist.	10128 Aug 05 20:24		10.66925 AU		10124 0 + 22 01 12	0000 27126	1006120
morning rise	10128 Aug 22 17:38	24° <b>Ω</b> 27'37		conjunction	10134 Oct 23 01:12	8°M37'26	1°06'30
_	10128 Oct 15 19:49	0° <b>т</b> р		minimum elong	10134 Oct 23 01:09	8° <b>™</b> 37'25	1°06'46
retrograde	10128 Dec 05 10:01	2°m/03'05		max. Earth dist.	10134 Oct 23 00:21		10.38242 AU
	10129 Jan 26 06:40	30°R <b>Ω</b>		morning rise	10134 Nov 09 21:25	10°M50′28	
opposition	10129 Feb 13 07:59	28° <b>Ω</b> 38'38			10134 Dec 16 18:29	15° <b>™</b>	
min. Earth dist.	10129 Feb 13 00:58		8.64720 AU	retrograde	10135 Feb 22 11:44	18° <b>M</b> 41'41	
direct	10129 Apr 22 13:49	25° <b>Ω</b> 17'47		opposition	10135 May 01 13:45	15°M15'04	1°35'22
	10129 Jul 08 23:48	0° <b>™</b>		min. Earth dist.	10135 May 01 14:57	15°M14'50	8.36504 AU
evening set	10129 Jul 31 23:39	2°M 38'02			10135 May 04 16:48	15°RM	
				direct	10135 Jul 08 03:12	11°M49'26	
conjunction	10129 Aug 18 05:24	4° ₩ 43'56	-0°55'43		10135 Sep 07 21:59	15° <b>™</b>	
minimum elong	10129 Aug 18 05:25	4° ₩ 43'57	0°55'57	evening set	10135 Oct 19 04:18	19°M35'25	
max. Earth dist.	10129 Aug 18 12:41	4° Mp46′10	10.62323 AU				
morning rise	10129 Sep 04 14:51	6° m 50′55		conjunction	10135 Nov 05 23:36	21°M48'39	1°26'14
retrograde	10129 Dec 18 12:12	14° <b>m</b> 29'26		minimum elong	10135 Nov 05 23:33	21°M48'38	1°26'34
opposition	10130 Feb 26 04:34	11° <b>m</b> )04'18	-0°54'27	max. Earth dist.	10135 Nov 05 20:21		10.34877 AU
**							

morning rise	10135 Nov 23 19:53	24°M02'11		retrograde	10142 May 26 06:12	21° <b>≈</b> 33'49	
	10136 Jan 19 20:45	0° <b>∡</b> 7		opposition	10142 Aug 01 15:40	18° <b>≈</b> 11'20	1°41'52
retrograde	10136 Mar 07 02:42	1° <b>∡</b> 54′24		min. Earth dist.	10142 Aug 01 22:59	18° <b>≈</b> 09'54	8.40095 AU
	10136 Apr 24 03:45	30°R∭			10142 Sep 22 11:13	15°R <b>≈</b>	
opposition	10136 May 13 21:41	28°M28'03	1°57'15	direct	10142 Oct 09 19:57	14° <b>≈</b> 44'28	
min. Earth dist.	10136 May 14 00:33	28°M27'29	8.33653 AU		10142 Oct 27 01:52	15° <b>≈</b>	
direct	10136 Jul 20 13:19	25°M01'45	0.55055710	evening set	10142 Get 27 01:32 10143 Jan 23 06:48	22° <b>≈</b> 37'31	
uncci		25 IIG01 45 0° <b>⊼</b> ¹		evening set	10143 Jan 23 00.46	22 ~3731	
	10136 Oct 07 20:18				10142 E 1 00 10 21	2.4040127	1010101
evening set	10136 Nov 01 05:25	2° <b>₹</b> 52'03		conjunction	10143 Feb 09 19:21	24° <b>≈</b> 48′27	1°12'21
				minimum elong	10143 Feb 09 19:23	24° <b>≈</b> 48′28	1°12'38
conjunction	10136 Nov 19 00:58	5° <b>∡</b> 105'45	1°41'30	max. Earth dist.	10143 Feb 09 10:00	24° <b>≈</b> 45'31	10.42071 AU
minimum elong	10136 Nov 19 00:56	5° <b>∡</b> 05'45	1°41'54	morning rise	10143 Feb 27 04:34	26° <b>≈</b> 58′24	
max. Earth dist.	10136 Nov 18 20:05	5° <b>∡</b> ¹04'13	10.32517 AU		10143 Mar 25 04:01	0° <b>)</b> €	
morning rise	10136 Dec 06 20:38	7° <b>∡</b> 19'31		retrograde	10143 Jun 08 11:22	4° <b>)</b> €34'34	
retrograde	10137 Mar 20 18:15	15° <b>√</b> 11'51		opposition	10143 Aug 15 00:56	1° <b>¥</b> 12'43	1°16'36
opposition	10137 May 27 07:12	11° <b>×</b> <sup>7</sup> 45'56	2°13'00	min. Earth dist.	10143 Aug 15 07:39	1° <del>)(</del> 11'23	8.44246 AU
min. Earth dist.	10137 May 27 07:12 10137 May 27 11:00	11° <b>х</b> 45'10	8.31882 AU	mm. Larm dist.	10143 Aug 30 19:18	30°R≈	0.44240710
	•		6.51662 AU	T	•		
direct	10137 Aug 03 02:44	8° <b>√</b> 19'08		direct	10143 Oct 23 11:22	27°≈46'21	
evening set	10137 Nov 15 08:43	16° <b>∡</b> 12'58			10143 Dec 14 16:23	0° <b>∀</b>	
				evening set	10144 Feb 05 18:37	5° <b>∺</b> 36′06	
conjunction	10137 Dec 03 04:04	18° <b>∡</b> ¹26'51	1°51'23				
minimum elong	10137 Dec 03 04:03	18° <b>∡</b> ¹26'50	1°51'49	conjunction	10144 Feb 23 05:07	7° <b>)</b> 45′57	0°50'21
max. Earth dist.	10137 Dec 02 22:16	18° <b>∡</b> ¹25′01	10.31301 AU	minimum elong	10144 Feb 23 05:09	7° <b>)</b> 45′57	0°50'33
morning rise	10137 Dec 20 22:33	20° <b>∡</b> ¹40'32		max. Earth dist.	10144 Feb 22 20:48	7° <b>¥</b> 43'21	10.46414 AU
retrograde	10138 Apr 03 09:40	28° <b>∡</b> ³32'03		morning rise	10144 Mar 11 12:06	9° <b>)</b> 54'45	
opposition	10138 Jun 09 18:04	25° <b>√</b> 06'43	2°21'39	retrograde	10144 Jun 20 14:05	17° <b>)</b> 27'29	
min. Earth dist.	10138 Jun 09 18:04 10138 Jun 09 22:35	25°× 0043	8.31280 AU	-		14° <b>H</b> 06'11	0°47'42
			8.31280 AU	opposition	10144 Aug 27 08:45		
direct	10138 Aug 16 18:49	21° <b>∡</b> ³39'35		min. Earth dist.	10144 Aug 27 14:42	14° <b>)</b> €05'01	8.48672 AU
evening set	10138 Nov 29 12:48	29° <b>∡</b> ³35′50		direct	10144 Nov 05 00:04	10° <b>)</b> 40′28	
	10138 Dec 02 18:43	0°₹		evening set	10145 Feb 18 01:49	18° <b>∺</b> 26′32	
conjunction	10138 Dec 17 07:25	1° <b>る</b> 49'37	1°55'17	conjunction	10145 Mar 07 09:59	20° <b>∺</b> 35′10	0°26'01
minimum elong	10138 Dec 17 07:25	1° <b>る</b> 49'37	1°55'44	minimum elong	10145 Mar 07 09:59	20° <b>)</b> 35′11	0°26'08
max. Earth dist.	10138 Dec 17 00:37	1° <b>る</b> 47'28	10.31289 AU	max. Earth dist.	10145 Mar 07 02:56	20° <b>¥</b> 32'59	10.50945 AU
morning rise	10139 Jan 04 00:17	4° <b>る</b> 02'56		morning rise	10145 Mar 24 14:36	22° <b>)</b> 42'49	
retrograde	10139 Apr 17 00:38	11°පි52'40		morning rise	10145 Jun 18 06:11	0°Υ	
opposition	10139 Jun 23 05:43	8°る28'02	2°22'38	ratra ara da		0° <b>Υ</b> 12'28	
* *				retrograde	10145 Jul 03 13:21		
min. Earth dist.	10139 Jun 23 11:13	8° <b>る</b> 26'56	8.31882 AU		10145 Jul 18 22:15	30°₽ <b>)</b>	
direct	10139 Aug 30 11:33	5° <b>る</b> 00'44		opposition	10145 Sep 09 14:59	26° <b>米</b> 51′38	
evening set	10139 Dec 13 15:59	12° <b>る</b> 58'06		min. Earth dist.	10145 Sep 09 20:23	26° <b>¥</b> 50'35	8.53235 AU
				direct	10145 Nov 18 10:47	23° <b>∺</b> 26′39	
conjunction	10139 Dec 31 09:27	15° <b>る</b> 11'31	1°52'58		10146 Feb 21 14:19	$0^{\circ}\Upsilon$	
minimum elong	10139 Dec 31 09:28	15° <b>る</b> 11'31	1°53'25	evening set	10146 Mar 03 04:18	1° <b>Y</b> 08'43	
max. Earth dist.	10139 Dec 31 01:34	15° <b>⋜</b> 09'01	10.32491 AU	•			
morning rise	10140 Jan 18 00:34	17° <b>る</b> 24'15		conjunction	10146 Mar 20 09:48	3° <b>Y</b> 16'04	0°00'38
retrograde	10140 Apr 29 14:18	25° <b>ට</b> 11'18		minimum elong	10146 Mar 20 09:47	3° <b>Υ</b> 16'04	0°00'39
-	-	23 <b>3</b> 11 18 21° <b>3</b> 47'25	2015157	U		3°Υ13'53	0 00 39
opposition	10140 Jul 05 17:41			behind sun begin	10146 Mar 20 02:41		
min. Earth dist.	10140 Jul 06 00:15	21°る46'06	8.33655 AU	behind sun end	10146 Mar 20 16:53	3°Υ18'15	
direct	10140 Sep 12 05:36	18° <b>る</b> 20'05		max. Earth dist.	10146 Mar 20 03:40		10.55537 AU
evening set	10140 Dec 26 16:42	26° <b>る</b> 17'13		desc. node	10146 Mar 29 13:08	4° <b>Y</b> 24'00	
				morning rise	10146 Apr 06 12:10	5° <b>Y</b> 22'31	
conjunction	10141 Jan 13 08:46	28° <b>る</b> 30'00	1°44'38	retrograde	10146 Jul 16 10:30	12° <b>Ƴ</b> 49'35	
minimum elong	10141 Jan 13 08:48	28° <b>පි</b> 30'01	1°45'02	opposition	10146 Sep 22 19:44	9° <b>Ƴ</b> 29'04	-0°14'42
max. Earth dist.	10141 Jan 12 23:44	28°云27'09	10.34826 AU	min. Earth dist.	10146 Sep 23 00:11	9° <b>Y</b> ′28'12	
man. Bartin and.	10141 Jan 25 07:01	0°≈	10.5 .020110	direct	10146 Dec 01 18:54	6° <b>Υ</b> '04'49	0.57002110
morning rise		0° <b>≈</b> 41'59				13° <b>Υ</b> 42'40	
morning rise	10141 Jan 30 22:05			evening set	10147 Mar 16 01:54	13   4240	
retrograde	10141 May 13 00:01	8°≈25'39	2002104		10147 4 02 01 2	1.5000 40115	002425
opposition	10141 Jul 19 05:13	5°≈02'30		conjunction	10147 Apr 02 04:38	15° <b>Y</b> 48'43	
min. Earth dist.	10141 Jul 19 12:35	5°≈01'02	8.36468 AU	minimum elong	10147 Apr 02 04:37	15° <b>Y</b> 48'43	
direct	10141 Sep 26 01:00	1° <b>≈</b> 35′19		max. Earth dist.	10147 Apr 01 23:55		10.60033 AU
evening set	10142 Jan 09 14:00	9° <b>≈</b> 30'56		morning rise	10147 Apr 19 04:53	17° <b>Y</b> ′54'01	
				retrograde	10147 Jul 29 04:41	25° <b>Y</b> 19'01	
conjunction	10142 Jan 27 04:23	11° <b>≈</b> 42'52	1°30'48	opposition	10147 Oct 05 22:36	21° <b>Y</b> ′58'37	-0°45'07
minimum elong	10142 Jan 27 04:26	11° <b>≈</b> 42'53	1°31'09	min. Earth dist.	10147 Oct 06 01:20	21° <b>Y</b> ′58′05	8.62190 AU
max. Earth dist.	10142 Jan 26 18:41		10.38110 AU	direct	10147 Dec 14 23:47	18° <b>Υ</b> 35'07	
morning rise	10142 Jan 20 18:41 10142 Feb 13 15:45	11 ≈5949 13°≈53'54	10.50110 AU	evening set	10147 Dec 14 23:47 10148 Mar 27 19:09	26° <b>Υ</b> 08'46	
morning 1150				evening set	10140 Mai 2/ 19.09	20 I 0040	
	10142 Feb 22 17:23	15° <b>≈</b>					

agniumation	10149 Apr. 12 10:21	28° <b>Ƴ</b> 13'34	0040124	conjunction	10154 Jun 25 09:32	11060050	1055!14
conjunction	10148 Apr 13 19:21			3		11°500'50	
minimum elong	10148 Apr 13 19:20	28° <b>Y</b> 13'34		minimum elong	10154 Jun 25 09:33	11°500'50	1°55'41
max. Earth dist.	10148 Apr 13 16:52		10.64240 AU	max. Earth dist.	10154 Jun 25 19:04		10.74988 AU
	10148 Apr 28 06:45	0°8		morning rise	10154 Jul 12 05:50	13° <b>©</b> 02'58	
morning rise	10148 Apr 30 17:32	0° <b>8</b> 17'46		retrograde	10154 Oct 23 18:05	20° <b>©</b> 29'59	
retrograde	10148 Aug 09 21:05	7° <b>8</b> 41'17		opposition	10155 Jan 02 00:09	17° <b>©</b> 07'28	
opposition	10148 Oct 17 23:24	4° <b>8</b> 20'51		min. Earth dist.	10155 Jan 01 15:26	17° <b>©</b> 09'07	8.74557 AU
min. Earth dist.	10148 Oct 17 23:44	_	8.66203 AU	direct	10155 Mar 12 04:10	13° <b>©</b> 47'21	
direct	10148 Dec 27 02:18	0° <b>8</b> 58'03		evening set	10155 Jun 20 19:53	21° <b>©</b> 03'43	
evening set	10149 Apr 09 08:26	8° <b>8</b> 27'44					
				conjunction	10155 Jul 07 15:58	23° <b>©</b> 05'51	-1°49'31
conjunction	10149 Apr 26 06:21	10° <b>8</b> 31'23	-1°09'47	minimum elong	10155 Jul 07 16:00	23° <b>©</b> 05'52	1°49'57
minimum elong	10149 Apr 26 06:19	10° <b>8</b> 31'22	1°10'03	max. Earth dist.	10155 Jul 08 01:56	23°908'53	10.73617 AU
max. Earth dist.	10149 Apr 26 06:53	10° <b>8</b> 31'33	10.67969 AU	morning rise	10155 Jul 24 14:32	25° <b>©</b> 08'43	
morning rise	10149 May 13 02:39	12° <b>8</b> 34'36		Č	10155 Sep 08 16:31	$0^{\circ}\Omega$	
8	10149 Jun 03 03:03	15° <b>8</b>		retrograde	10155 Nov 05 13:06	2°Ω37'53	
retrograde	10149 Aug 22 13:51	19° <b>8</b> 57'16		renograde	10156 Jan 04 19:28	30°R.55	
opposition	10149 Oct 30 22:38	16° <b>8</b> 36'40	-1°37'31	opposition	10156 Jan 14 18:11	29°9514'51	-2°08'49
min. Earth dist.	10149 Oct 30 22:50	_	8.69662 AU	min. Earth dist.	10156 Jan 14 09:34		8.72711 AU
mm. Earm dist.	10149 Oct 30 20:50 10149 Nov 22 01:56	15°R <b>8</b>	8.09002 AU	direct	10156 Mar 23 14:39	25° <b>9</b> 54'45	6.72711 AU
Ji	10149 Nov 22 01:30 10150 Jan 09 00:39	13° <b>8</b> 14'33		direct	10156 Jun 03 15:51	23 <b>3</b> 3443	
direct				. ,			
	10150 Feb 24 11:28	15° <b>8</b>		evening set	10156 Jul 02 02:33	3° <b>Ω</b> 11′20	
evening set	10150 Apr 21 18:16	20° <b>8</b> 40'33				0	
				conjunction	10156 Jul 19 00:49	5°Ω14'16	
conjunction	10150 May 08 14:09	22° <b>8</b> 43'14		minimum elong	10156 Jul 19 00:51	5° <b>Ω</b> 14'17	
minimum elong	10150 May 08 14:07	22° <b>8</b> 43'13		max. Earth dist.	10156 Jul 19 10:27		10.71362 AU
max. Earth dist.	10150 May 08 16:58		10.71061 AU	morning rise	10156 Aug 05 02:13	7° <b>Ω</b> 18'06	
morning rise	10150 May 25 09:03	24° <b>8</b> 45'41		retrograde	10156 Nov 17 08:15	14° <b>Ω</b> 49'45	
	10150 Jul 14 23:52	$\Pi$ $^{\circ}0$		opposition	10157 Jan 26 12:31	11° <b>Ω</b> 26′11	-1°52'54
retrograde	10150 Sep 04 04:59	2° <b>Ⅲ</b> 08′07		min. Earth dist.	10157 Jan 26 04:14	11° <b>Ω</b> 27'46	8.70023 AU
	10150 Oct 27 11:24	30° <b>Ŗ</b> ႘		direct	10157 Apr 05 02:19	8° <b>Ω</b> 05'57	
opposition	10150 Nov 12 20:23	28° <b>8</b> 47'17	-1°57'20		10157 Jul 11 04:44	15° <b>Ω</b>	
min. Earth dist.	10150 Nov 12 17:07	28° <b>8</b> 47'54	8.72425 AU	evening set	10157 Jul 14 11:50	15° <b>Ω</b> 23'30	
direct	10151 Jan 21 18:36	25° <b>8</b> 25'45		-			
	10151 Apr 09 07:24	0°II		conjunction	10157 Jul 31 13:00	17° <b>Ω</b> 27'31	-1°23'45
evening set	10151 May 04 01:32	2° <b>Ⅱ</b> 48'34		minimum elong	10157 Jul 31 13:02	17° <b>Ω</b> 27'32	1°24'05
8				max. Earth dist.	10157 Jul 31 22:55		10.68334 AU
conjunction	10151 May 20 19:51	4° <b>∏</b> 50'31	-1°41'53	morning rise	10157 Aug 17 17:35	19° <b>Ω</b> 32'31	10.0055 1110
minimum elong	10151 May 20 19:49	4° <b>I</b> I50'30		retrograde	10157 Nov 30 06:26	27°Ω06'53	
max. Earth dist.	10151 May 21 00:03		10.73398 AU	opposition	10157 Feb 08 07:33	23°Ω42'47	1021145
	10151 Jun 06 14:08	4 <b>П</b> 51 48 6° <b>П</b> 52'27	10.73398 AU	min. Earth dist.	10158 Feb 07 23:15		8.66626 AU
morning rise							8.00020 AU
retrograde	10151 Sep 16 18:28	14° <b>Ⅱ</b> 15'14	2011140	direct	10158 Apr 17 16:32	20° <b>Ω</b> 22'17	
opposition	10151 Nov 25 16:35	10° <b>Ⅱ</b> 54'05		evening set	10158 Jul 27 00:38	27° <b>Ω</b> 41'33	
min. Earth dist.	10151 Nov 25 12:15		8.74374 AU		10150 1 12 05 06	200 0 46151	100.412.0
direct	10152 Feb 03 12:09	7° <b>Ⅱ</b> 33'02		conjunction	10158 Aug 13 05:06	29° <b>Ω</b> 46'51	
evening set	10152 May 15 06:49	14° <b>∏</b> 53'17		minimum elong	10158 Aug 13 05:09	29° <b>Ω</b> 46'51	
				max. Earth dist.	10158 Aug 13 15:23		10.64668 AU
conjunction	10152 Jun 01 00:23	16° <b>∏</b> 54'48			10158 Aug 15 00:05	0° <b>™</b>	
minimum elong	10152 Jun 01 00:21	16° <b>∏</b> 54'47		morning rise	10158 Aug 30 13:00	1° <b>m</b> 53'10	
max. Earth dist.	10152 Jun 01 05:54		10.74876 AU	retrograde	10158 Dec 13 08:28	9° Mg 30′20	
morning rise	10152 Jun 17 18:41	18° <b>Ⅱ</b> 56′29		opposition	10159 Feb 21 03:31	6° Mp 05′44	-1°06'10
retrograde	10152 Sep 28 09:11	26° <b>Ⅱ</b> 20′12		min. Earth dist.	10159 Feb 20 19:14	6°₩07'20	8.62669 AU
opposition	10152 Dec 07 11:44	22° <b>∏</b> 58'38	-2°20'25	direct	10159 Apr 30 05:52	2° <b>m</b> 44'50	
min. Earth dist.	10152 Dec 07 05:51	22° <b>Ⅲ</b> 59'45	8.75407 AU	evening set	10159 Aug 08 18:01	10° Mp 06'36	
direct	10153 Feb 15 03:18	19° <b>Ⅲ</b> 38′02					
evening set	10153 May 27 10:57	26° <b>Ⅱ</b> 56′18		conjunction	10159 Aug 26 01:44	12° m 13'15	-0°42'24
-	÷			minimum elong	10159 Aug 26 01:46	12° m 13'16	0°42'35
conjunction	10153 Jun 13 04:36	28° <b>∏</b> 57'40	-1°55'51	max. Earth dist.	10159 Aug 26 11:16		10.60521 AU
minimum elong	10153 Jun 13 04:35	28° <b>∏</b> 57'40		morning rise	10159 Sep 12 12:53	14° <b>m</b> ) 20'58	-
max. Earth dist.	10153 Jun 13 12:21		10.75414 AU	retrograde	10159 Dec 26 12:15	22° m/00'55	
Darur dist.	10153 Jun 21 17:40	0°95	20.,2111110	opposition	10160 Mar 05 00:41	18° mp 35'53	-0°37'14
morning rise	10153 Jun 29 23:30	0°959'26		min. Earth dist.	10160 Mar 04 17:26	18° m <sub>2</sub> 33'33'	
retrograde	10153 Juli 29 25:30 10153 Oct 11 00:36	8°\$24'35		direct	10160 May 11 21:31	15° Mp 14'28	5.56526 AU
•			-2°22'40		•		
opposition	10153 Dec 20 06:10	5°502'34		evening set	10160 Aug 20 16:21	22°M 39'27	
min. Earth dist.	10153 Dec 19 22:28		8.75467 AU		10170 0 07 02 02	0.40 m. 4710 0	0017157
direct	10154 Feb 27 16:06	1°542'17		conjunction	10160 Sep 07 03:08	24° Mp 47'30	
evening set	10154 Jun 08 15:00	8° <b>©</b> 59'14		minimum elong	10160 Sep 07 03:09	24° Mp 47'30	0.18.01

	10160 5 07 10-26	2 40 m 40147	10 5 (070 AII		10166 Nov 09 14:37	100.742120	
max. Earth dist.	10160 Sep 07 10:36		10.56078 AU	evening set	10100 NOV 09 14:37	10° <b>∡</b> ′42'28	
morning rise	10160 Sep 24 17:22	26° m 56'34			1016637 25 00 54	100 35550	1045145
	10160 Oct 21 12:01	0∘ <b>⊽</b>		conjunction	10166 Nov 27 09:54	12° <b>₹</b> 55'59	1°47'47
retrograde	10161 Jan 07 18:07	4° <b>≏</b> 39'14		minimum elong	10166 Nov 27 09:52	12° <b>≯</b> 55'58	1°48'12
opposition	10161 Mar 17 23:36	1° <b>≏</b> 13'50	-0°06'12	max. Earth dist.	10166 Nov 27 03:02		10.33532 AU
min. Earth dist.	10161 Mar 17 18:14	1° <b>≏</b> 14'53	8.53794 AU	morning rise	10166 Dec 15 04:47	15° <b>₹</b> 09'26	
	10161 Apr 03 00:30	30°R, Mp		retrograde	10167 Mar 28 20:22	23° <b>⋠</b> 00′17	
direct	10161 May 24 16:33	27° <b>m</b> 51'42		opposition	10167 Jun 04 06:37	19° <b>∡</b> ³34'56	2°18'44
asc. node	10161 May 30 09:59	27° m 53'29		min. Earth dist.	10167 Jun 04 12:25	19° <b>х</b> 33'46	8.33031 AU
	10161 Jul 13 20:20	0∘ <u>⊽</u>		direct	10167 Aug 11 05:11	16° <b>∡</b> 108'05	
evening set	10161 Sep 02 19:49	ა <b>—</b> 5° <b>ჲ</b> 20'30		evening set	10167 Nov 23 17:25	24° <b>×</b> <sup>7</sup> 02'16	
evening set	10101 Sep 02 17.47	3 <b>—</b> 2030		evening set	1010/100/23 17.23	24 × 02 10	
conjunction	10161 Sep 20 09:25	7° <b>≏</b> 29'53	0°07'41	conjunction	10167 Dec 11 12:07	26° <b>∡</b> 15'49	1°54'20
·	*			•			
minimum elong	10161 Sep 20 09:24	7° <b>Ω</b> 29'53	0°07'43	minimum elong	10167 Dec 11 12:06		1°54'47
behind sun begin	10161 Sep 20 02:54	7° <b>≏</b> 27'54		max. Earth dist.	10167 Dec 11 03:26		10.32555 AU
behind sun end	10161 Sep 20 15:55	7° <b>£</b> 31'52		morning rise	10167 Dec 29 05:44	28° <b>₹</b> 29'05	
max. Earth dist.	10161 Sep 20 14:23	7° <b>≏</b> 31'24	10.51513 AU		10168 Jan 10 18:11	0°₹	
morning rise	10161 Oct 08 02:16	9° <b>≏</b> 40'14		retrograde	10168 Apr 10 09:30	6° <b>る</b> 18'39	
retrograde	10162 Jan 21 02:40	17° <b>≏</b> 25′24		opposition	10168 Jun 16 17:06	2° <b>る</b> 53'45	2°23'07
opposition	10162 Mar 31 00:10	13° <b>♀</b> 59'42	0°25'28	min. Earth dist.	10168 Jun 16 23:52	2° <b>る</b> 52'23	8.32651 AU
min. Earth dist.	10162 Mar 30 21:00	14° <b>£</b> 00'19	8.49223 AU		10168 Jul 29 14:45	30°₽ <b>҂</b> 7	
direct	10162 Jun 06 14:14	10° <b>♀</b> 36'45		direct	10168 Aug 23 21:53	29° <b>₹</b> 26'25	
evening set	10162 Sep 16 04:47	18° <b>⊆</b> 09'53		direct	10168 Sep 18 02:12	0°중	
evening set	10102 Sep 10 04.47	16 = 09 33			10168 Sep 18 02.12 10168 Dec 06 20:01	7° <b>る</b> 22'23	
	10162 0 + 02 20 40	200 0 20120	0022104	evening set	10108 Dec 06 20:01	1 622 23	
conjunction	10162 Oct 03 20:49	20° <b>£</b> 20'30	0°33'04				
minimum elong	10162 Oct 03 20:47	20° <b>≏</b> 20'30	0°33'11	conjunction	10168 Dec 24 13:53		1°54'46
max. Earth dist.	10162 Oct 03 23:19		10.46962 AU	minimum elong	10168 Dec 24 13:53		1°55'13
morning rise	10162 Oct 21 15:31	22° <b>£</b> 31'57		max. Earth dist.	10168 Dec 24 04:24	9° <b>⋜</b> 32'45	10.32754 AU
	10163 Jan 15 06:24	0° <b>M</b>		morning rise	10169 Jan 11 05:54	11° <b>る</b> 48'34	
retrograde	10163 Feb 03 12:18	0° <b>M</b> ₊19′23		retrograde	10169 Apr 23 22:14	19° <b>る</b> 35'59	
	10163 Feb 22 20:04	30° <b>₽</b> Ω		opposition	10169 Jun 30 03:50	16° <b>ප</b> 11'35	2°19'50
opposition	10163 Apr 13 02:23	26° <b>₽</b> 53'28	0°56'12	min. Earth dist.	10169 Jun 30 10:59	16° <b>ප</b> 10'09	8.33424 AU
min. Earth dist.	10163 Apr 13 01:07	26° <b>£</b> 53'43	8.44755 AU	direct	10169 Sep 06 15:08	12° <b>ප්</b> 43'59	
direct	10163 Jun 19 15:57	23° <b>⊆</b> 29'41	0.11733 110	evening set	10169 Dec 20 20:58	20°る40'28	
direct	10163 Sep 20 10:01	0°M		evening set	10109 DCC 20 20.38	20 04028	
avanina aat	-	1°ML07'35		conjunction	10170 Jan 07 13:45	22° <b>る</b> 53'24	1°49'03
evening set	10163 Sep 29 18:59	1 1160/33					
				minimum elong	10170 Jan 07 13:46		1°49'29
conjunction	10163 Oct 17 12:50	3° <b>M</b> ₁9'17	0°57'01	max. Earth dist.	10170 Jan 07 04:06		10.34098 AU
minimum elong	10163 Oct 17 12:48	3°M19'16	0°57'15	morning rise	10170 Jan 25 03:54	25° <b>る</b> 05'35	
max. Earth dist.	10163 Oct 17 13:22	3° <b>M</b> ₊19'27	10.42601 AU		10170 Mar 10 14:42	0° <b>≈</b>	
morning rise	10163 Nov 04 08:33	5°MJ31'37		retrograde	10170 May 07 08:47	20 50107	
					101/01/14/07 00:1/	2° <b>≈</b> 50'07	
retrograde	10164 Feb 17 00:20	13°ML21'00			10170 Jul 06 13:08	2°≈50'07 30°Rる	
retrograde opposition	10164 Feb 17 00:20 10164 Apr 25 06:42	13°M21'00 9°M55'02	1°24'23	opposition	•		2°09'06
•	10164 Apr 25 06:42		1°24'23 8.40626 AU	* *	10170 Jul 06 13:08 10170 Jul 13 14:38	30°Rੂਰ 29°ਰ26'17	2°09'06 8.35287 AU
opposition min. Earth dist.	10164 Apr 25 06:42 10164 Apr 25 06:49	9°M55'02 9°M55'00		min. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50	30°R ට 29°ට 26'17 29°ට 24'50	
opposition min. Earth dist. direct	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44	9°M55'02 9°M55'00 6°M30'25		* *	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05	30°Rる 29°る26'17 29°る24'50 25°る58'38	
opposition min. Earth dist.	10164 Apr 25 06:49 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49	9°M55'02 9°M55'00 6°M30'25 14°M13'07		min. Earth dist. direct	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00	30°Rる 29°る26'17 29°る24'50 25°る58'38 0°≈	
opposition min. Earth dist. direct	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44	9°M55'02 9°M55'00 6°M30'25		min. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05	30°Rる 29°る26'17 29°る24'50 25°る58'38	
opposition min. Earth dist. direct evening set	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00	9°M55'02 9°M55'00 6°M30'25 14°M13'07 15°M	8.40626 AU	min. Earth dist. direct evening set	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56	30°Rる 29°る26'17 29°る24'50 25°る58'38 0°≈ 3°≈54'22	8.35287 AU
opposition min. Earth dist. direct evening set conjunction	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49	9°M55'02 9°M55'00 6°M30'25 14°M13'07 15°M	8.40626 AU 1°18'14	min. Earth dist. direct evening set conjunction	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37	8.35287 AU 1°37'36
opposition min. Earth dist. direct evening set  conjunction minimum elong	10164 Apr 25 06:49 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42	8.40626 AU 1°18'14 1°18'33	min. Earth dist. direct evening set conjunction minimum elong	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42	8.40626 AU 1°18'14	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40	8.35287 AU 1°37'36
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12 10164 Nov 17 04:51	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'42	8.40626 AU 1°18'14 1°18'33	min. Earth dist. direct evening set conjunction minimum elong	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42	8.40626 AU 1°18'14 1°18'33	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈00'40	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12 10164 Nov 17 04:51	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'42	8.40626 AU 1°18'14 1°18'33	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27	1°18'14 1°18'33 10.38726 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32	1°18'14 1°18'33 10.38726 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09	8.35287 AU 1°37'36 1°37'59
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50	9°ML55'02 9°ML55'00 6°ML30'25 14°ML13'07 15°ML 16°ML25'42 16°ML25'12 18°ML38'41 26°ML29'27 23°ML03'10	1°18'14 1°18'33 10.38726 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈	8.35287 AU 1°37'36 1°37'59 10.36496 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32 23°M.03'10 19°M.38'06	1°18'14 1°18'33 10.38726 AU	min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 08:21	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈≈ 15°≈≈59'09 15°R≈ 12°≈35'56	8.35287 AU 1°37'36 1°37'59 10.36496 AU 1°51'37
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'10 19°M.38'06 27°M.25'21	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27	8.35287 AU 1°37'36 1°37'59 10.36496 AU 1°51'37
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'10 19°M.38'06 27°M.25'21 29°M.38'33	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU	min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07 10171 Dec 31 10:51	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈	8.35287 AU 1°37'36 1°37'59 10.36496 AU 1°51'37
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	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 08:47 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 Jul 15 03:13 10165 Oct 26 12:52 10165 Nov 13 08:18 10165 Nov 13 08:18	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'10 19°M.38'06 27°M.25'21 29°M.38'33 29°M.38'33	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52	min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56 10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27	8.35287 AU 1°37'36 1°37'59 10.36496 AU 1°51'37
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00 10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52 10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 08:18	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M. 16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32 23°M.03'10 19°M.38'06 27°M.25'21 29°M.38'33 29°M.38'33 29°M.37'15	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU	min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07 10171 Dec 31 10:51 10172 Jan 17 13:04	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU
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.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M.  16°M.25'42 16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32 23°M.03'10 19°M.38'06 27°M.25'21  29°M.38'33 29°M.38'33 29°M.37'15 0° 🗷	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52	min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jun 23 09:24 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07 10171 Dec 31 10:51 10172 Jan 17 13:04	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU
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.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38 10165 Dec 01 04:01	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M.  16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32 23°M.03'10 19°M.38'06 27°M.25'21  29°M.38'33 29°M.37'15 0° 🗷 1° 🗷 51'54	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52	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	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07 10171 Dec 31 10:51 10172 Jan 17 13:04  10172 Feb 04 02:34 10172 Feb 04 02:37	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU  1°21'08 1°21'27
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.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38 10165 Dec 01 04:01 10166 Mar 15 06:28	9° m.55'02 9° m.55'00 6° m.30'25 14° m.13'07 15° m.  16° m.25'42 16° m.25'42 16° m.25'12 18° m.38'41 26° m.29'27 23° m.03'32 23° m.03'10 19° m.38'06 27° m.25'21  29° m.38'33 29° m.38'32 29° m.37'15 0° 🗷 1° 🗷 51'54 9° 🗷 43'10	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52 10.35632 AU	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.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Dec 31 10:51 10172 Jan 17 13:04  10172 Feb 04 02:34 10172 Feb 04 02:37 10172 Feb 04 02:37	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU
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.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38 10165 Dec 01 04:01 10166 Mar 15 06:28 10166 May 21 21:04	9°M.55'02 9°M.55'00 6°M.30'25 14°M.13'07 15°M.  16°M.25'42 16°M.25'12 18°M.38'41 26°M.29'27 23°M.03'32 23°M.03'10 19°M.38'06 27°M.25'21  29°M.38'33 29°M.37'15 0° 🗷 1° 🗷 51'54	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52 10.35632 AU	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	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Oct 04 02:07 10171 Dec 31 10:51 10172 Jan 17 13:04  10172 Feb 04 02:34 10172 Feb 04 02:37	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU  1°21'08 1°21'27
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.	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38 10165 Dec 01 04:01 10166 Mar 15 06:28	9° m.55'02 9° m.55'00 6° m.30'25 14° m.13'07 15° m.  16° m.25'42 16° m.25'42 16° m.25'12 18° m.38'41 26° m.29'27 23° m.03'32 23° m.03'10 19° m.38'06 27° m.25'21  29° m.38'33 29° m.38'32 29° m.37'15 0° 🗷 1° 🗷 51'54 9° 🗷 43'10	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52 10.35632 AU	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.	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Dec 31 10:51 10172 Jan 17 13:04  10172 Feb 04 02:34 10172 Feb 04 02:37 10172 Feb 04 02:37	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU  1°21'08 1°21'27
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.  morning rise retrograde opposition	10164 Apr 25 06:42 10164 Apr 25 06:49 10164 Jul 01 20:44 10164 Oct 12 13:49 10164 Oct 18 22:00  10164 Oct 30 08:49 10164 Oct 30 07:12 10164 Nov 17 04:51 10165 Mar 01 15:24 10165 May 08 13:03 10165 May 08 14:50 10165 Jul 15 03:13 10165 Oct 26 12:52  10165 Nov 13 08:18 10165 Nov 13 08:18 10165 Nov 13 04:08 10165 Nov 16 04:38 10165 Dec 01 04:01 10166 Mar 15 06:28 10166 May 21 21:04	9° m.55'02 9° m.55'02 6° m.30'25 14° m.13'07 15° m.  16° m.25'42 16° m.25'42 16° m.25'12 18° m.38'41 26° m.29'27 23° m.03'32 23° m.03'10 19° m.38'06 27° m.25'21  29° m.38'33 29° m.37'15 0° 🚜 1° 🚜 51'54 9° 🚜 43'10 6° 🕊 17'28	1°18'14 1°18'33 10.38726 AU 1°48'26 8.37142 AU 1°35'30 1°35'52 10.35632 AU	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. morning rise	10170 Jul 06 13:08 10170 Jul 13 14:38 10170 Jul 13 21:50 10170 Sep 20 09:05 10170 Nov 30 15:00 10171 Jan 03 18:56  10171 Jan 21 10:14 10171 Jan 21 10:17 10171 Jan 21 00:53 10171 Feb 07 22:22 10171 Apr 17 11:11 10171 May 20 17:03 10171 Jul 27 00:55 10171 Jul 27 00:55 10171 Jul 27 08:21 10171 Dec 31 10:51 10172 Jan 17 13:04  10172 Feb 04 02:34 10172 Feb 04 02:37 10172 Feb 04 02:37 10172 Feb 03 17:12 10172 Feb 03 17:12	30°R♂ 29°♂26'17 29°♂24'50 25°♂58'38 0°≈ 3°≈54'22 6°≈06'37 6°≈06'38 6°≈03'40 8°≈17'59 15°≈ 15°≈59'09 15°R≈ 12°≈35'56 12°≈34'27 9°≈08'27 15°≈ 17°≈02'17	8.35287 AU  1°37'36 1°37'59 10.36496 AU  1°51'37 8.38136 AU  1°21'08 1°21'27

min. Earth dist.	10172 Aug 08 17:43	25° <b>≈</b> 37'31	8.41828 AU	morning rise	10178 May 07 19:24	7° <b>8</b> 12'08	
direct	10172 Oct 16 17:15	22°≈11'54	0.11020110	retrograde	10178 Aug 17 02:44	14° <b>8</b> 34'31	
	10173 Jan 29 17:13	0° <b>)</b> €		opposition	10178 Oct 25 08:39	11° <b>8</b> 14'19	-1°26'40
evening set	10173 Jan 30 02:41	0° <b>)</b> €02'54		min. Earth dist.	10178 Oct 25 07:56	11° <b>8</b> 14'27	8.69447 AU
-				direct	10179 Jan 03 10:24	7° <b>8</b> 52'14	
conjunction	10173 Feb 16 14:07	2° <b>)</b> 13′15	1°00'36		10179 Apr 13 17:33	15° <b>8</b>	
minimum elong	10173 Feb 16 14:10	2° <b>)</b> 13′15	1°00'51	evening set	10179 Apr 16 10:23	15° <b>8</b> 19'20	
max. Earth dist.	10173 Feb 16 04:55	2° <b>)</b> 10′22	10.43892 AU				
morning rise	10173 Mar 05 22:13	4° <b>)</b> 22′35		conjunction	10179 May 03 06:58	17° <b>8</b> 22'15	-1°19'52
retrograde	10173 Jun 15 00:43	11° <b>¥</b> 56′30		minimum elong	10179 May 03 06:56	17° <b>8</b> 22'15	1°20'12
opposition	10173 Aug 21 18:05	8° <b>)</b> 34′30	1°01'04	max. Earth dist.	10179 May 03 08:36	17° <b>8</b> 22'45	10.71204 AU
min. Earth dist.	10173 Aug 22 01:04	8° <b>)</b> 33′08	8.46162 AU	morning rise	10179 May 20 02:34	19° <b>8</b> 24'53	
direct	10173 Oct 30 07:50	5° <b>∺</b> 07'59		retrograde	10179 Aug 29 17:19	26° <b>8</b> 46'45	
evening set	10174 Feb 12 11:27	12° <b>¥</b> 55′28		opposition	10179 Nov 07 06:32	23° <b>8</b> 26'30	
				min. Earth dist.	10179 Nov 07 03:37	23° <b>8</b> 27'04	8.72895 AU
conjunction	10174 Mar 01 20:35	15° <b>)</b> €04'37	0°37'12	direct	10180 Jan 16 06:28	20° <b>8</b> 05'13	
minimum elong	10174 Mar 01 20:37	15° <b>)</b> €04'37	0°37'21	evening set	10180 Apr 27 18:28	27° <b>8</b> 28'54	
max. Earth dist.	10174 Mar 01 12:23		10.48491 AU				
morning rise	10174 Mar 19 02:28	17° <b>)</b> 12'47		conjunction	10180 May 14 13:26	29° <b>8</b> 30'59	
retrograde	10174 Jun 27 23:42	24° <b>)</b> (43'23		minimum elong	10180 May 14 13:24	29° <b>8</b> 30'58	
opposition	10174 Sep 04 00:24	21° <b>∺</b> 21'56	0°30'54	max. Earth dist.	10180 May 14 17:39	. •	10.74221 AU
min. Earth dist.	10174 Sep 04 05:48	21° <b>¥</b> 20′53	8.50915 AU		10180 May 18 12:31	0°П	
direct	10174 Nov 12 20:23	17° <b>¥</b> 56′12		morning rise	10180 May 31 07:52	1° <b>Ⅱ</b> 32'55	
evening set	10175 Feb 25 15:15	25° <b>)</b> (39′41		retrograde	10180 Sep 10 07:45	8° <b>Ⅱ</b> 54'51	2005125
	1017534 14 01 50	270\/ 47122	0010110	opposition	10180 Nov 19 02:54	5° <b>Ⅱ</b> 34'27	
conjunction	10175 Mar 14 21:58	27° <b>)</b> (47'32	0°12'13	min. Earth dist.	10180 Nov 18 21:57		8.75507 AU
minimum elong	10175 Mar 14 21:59	27° <b>)</b> (47'33	0°12'17	direct	10181 Jan 28 00:52	2° <b>Ⅱ</b> 13'50	
behind sun begin behind sun end	10175 Mar 14 17:13 10175 Mar 15 02:44	27° <b>)</b> 46'05 27° <b>)</b> 49'00		evening set	10181 May 10 00:22	9° <b>Ⅱ</b> 34'37	
			10.53386 AU		10101 M 26 10-14	110Π2/105	1947122
max. Earth dist.	10175 Mar 14 15:59 10175 Apr 01 01:29	27 <del>X</del> 4342 29° <del>X</del> 54'28	10.55580 AU	conjunction minimum elong	10181 May 26 18:14 10181 May 26 18:13	11° <b>П</b> 36'05 11° <b>П</b> 36'05	
morning rise	10175 Apr 01 01:29 10175 Apr 01 19:42	29 π3428 0°Υ		max. Earth dist.	10181 May 27 00:34		1 4 / 48 10.76335 AU
retrograde	10175 Apr 01 19:42 10175 Jul 10 22:06	7° <b>Υ</b> 22'12		morning rise	10181 Jun 12 12:11	13° <b>Ⅱ</b> 37'37	10.70333 AU
desc. node	10175 Sep 11 22:19	4°Υ25'38		retrograde	10181 Sep 22 23:22	21° <b>I</b> I00'10	
opposition	10175 Sep 17 22:15	4° <b>Υ</b> 01'12	-0°00'27	opposition	10181 Dec 01 22:19	17° <b>II</b> 39'29	-2°16'54
min. Earth dist.	10175 Sep 17 03:01 10175 Sep 17 08:26		8.55855 AU	min. Earth dist.	10181 Dec 01 16:11	17° <b>Ⅱ</b> 40'38	8.77145 AU
direct	10175 Nov 26 04:28	0° <b>Υ</b> 36'22	0.55055710	direct	10182 Feb 09 15:18	14° <b>Ⅱ</b> 19'23	0.77143710
evening set	10176 Mar 09 14:12	8°Υ15'35		evening set	10182 May 22 04:44	21° <b>I</b> I37'48	
e vennig sec	101/01/11 0/ 11:12	0 1 10 50		evening sec	10102 11111 22 0 1.11	21 237 10	
conjunction	10176 Mar 26 18:23	10° <b>Y</b> ′22'09	-0°13'13	conjunction	10182 Jun 07 22:08	23° <b>II</b> 38'58	-1°54'12
minimum elong	10176 Mar 26 18:22	10° <b>Y</b> ′22′09	0°13'15	minimum elong	10182 Jun 07 22:07	23° <b>II</b> 38'58	1°54'38
behind sun begin	10176 Mar 26 14:12	10° <b>Y</b> ′20′52		max. Earth dist.	10182 Jun 08 05:06	23° <b>Ⅱ</b> 41′05	10.77418 AU
behind sun end	10176 Mar 26 22:33	10° <b>Y</b> 23′26		morning rise	10182 Jun 24 16:30	25° <b>Ⅱ</b> 40′26	
max. Earth dist.	10176 Mar 26 14:52	10° <b>Y</b> 21′05	10.58328 AU		10182 Aug 03 22:19	$0$ $\circ$ $\mathfrak{s}$	
morning rise	10176 Apr 12 19:33	12° <b>Y</b> 27'52		retrograde	10182 Oct 05 13:42	3° <b>5</b> 04'07	
retrograde	10176 Jul 22 18:06	19° <b>Y</b> 53'11			10182 Dec 10 22:48	30°RⅡ	
opposition	10176 Sep 29 07:55	16° <b>Ƴ</b> 32'35	-0°31'25	opposition	10182 Dec 14 16:54	29° <b>Ⅱ</b> 43'00	-2°22'12
min. Earth dist.	10176 Sep 29 09:52	16° <b>Ƴ</b> 32'13	8.60734 AU	min. Earth dist.	10182 Dec 14 10:35	29° <b>Ⅱ</b> 44'12	8.77678 AU
direct	10176 Dec 08 08:10	13° <b>Y</b> ′08'41		direct	10183 Feb 22 04:01	26° <b>Ⅲ</b> 23'14	
evening set	10177 Mar 22 08:53	20° <b>Y</b> 43'41			10183 May 01 00:23	$0$ $\circ$	
				evening set	10183 Jun 03 08:38	3° <b>5</b> 640'03	
conjunction	10177 Apr 08 10:19	22° <b>Y</b> '48'56					
minimum elong	10177 Apr 08 10:18	22° <b>Y</b> 48′55		conjunction	10183 Jun 20 02:26	5° <b>©</b> 41'16	
max. Earth dist.	10177 Apr 08 08:34		10.63077 AU	minimum elong	10183 Jun 20 02:26	5° <b>©</b> 41'17	
morning rise	10177 Apr 25 09:16	24° <b>Y</b> 53′29		max. Earth dist.	10183 Jun 20 09:38		10.77351 AU
	10177 Jun 12 22:44	0°8		morning rise	10183 Jul 06 22:00	7°543'00	
retrograde	10177 Aug 04 10:44	2° <b>8</b> 17'00		retrograde	10183 Oct 18 04:32	15°508'22	202111
	10177 Sep 28 07:19	30°R℃	190012.4	opposition	10183 Dec 27 10:42	11°5546'44	
opposition		28° <b>Y</b> 56'41		min. Earth dist.	10183 Dec 27 04:05	11°548'00	8.77012 AU
	10177 Oct 12 09:04	2000055122	0 (5220 411				
min. Earth dist.	10177 Oct 12 09:52		8.65330 AU	direct	10184 Mar 05 17:28	8°527'06	
min. Earth dist. direct	10177 Oct 12 09:52 10177 Dec 21 11:02	25° <b>Y</b> 33'42	8.65330 AU	evening set	10184 Mar 05 17:28 10184 Jun 14 12:52	8°92/06 15°9543'08	
direct	10177 Oct 12 09:52 10177 Dec 21 11:02 10178 Mar 07 20:26	25° <b>Ƴ</b> 33'42 0° <b>႘</b>	8.65330 AU	evening set	10184 Jun 14 12:52	15° <b>©</b> 43'08	-1°52'28
	10177 Oct 12 09:52 10177 Dec 21 11:02	25° <b>Y</b> 33'42	8.65330 AU	evening set	10184 Jun 14 12:52 10184 Jul 01 08:01	15°543'08 17°544'48	
direct evening set	10177 Oct 12 09:52 10177 Dec 21 11:02 10178 Mar 07 20:26 10178 Apr 03 23:31	25° <b>Y</b> 33'42 0° <b>႘</b> 3° <b>႘</b> 04'38		evening set  conjunction  minimum elong	10184 Jun 14 12:52 10184 Jul 01 08:01 10184 Jul 01 08:02	15°543'08 17°544'48 17°544'48	1°53'05
direct evening set conjunction	10177 Oct 12 09:52 10177 Dec 21 11:02 10178 Mar 07 20:26 10178 Apr 03 23:31 10178 Apr 20 22:18	25° <b>Y</b> 33'42 0° <b>8</b> 3° <b>8</b> 04'38	-1°00'15	evening set  conjunction  minimum elong  max. Earth dist.	10184 Jun 14 12:52 10184 Jul 01 08:01 10184 Jul 01 08:02 10184 Jul 01 16:06	15°943'08 17°944'48 17°944'48 17°947'15	
direct evening set	10177 Oct 12 09:52 10177 Dec 21 11:02 10178 Mar 07 20:26 10178 Apr 03 23:31	25°Y33'42 0°8 3°8'04'38 5°8'08'38 5°8'08'38	-1°00'15	evening set  conjunction  minimum elong	10184 Jun 14 12:52 10184 Jul 01 08:01 10184 Jul 01 08:02	15°543'08 17°544'48 17°544'48	1°53'05

minimum elong	10196 Dec 04 08:27	20° <b>∡</b> °21'32	1°52'26	conjunction	10203 Feb 25 06:45	9° <b>)</b> 34′53	0°47'55
max. Earth dist.	10196 Dec 04 02:50	20° <b>∡</b> 19'45	10.31747 AU	minimum elong	10203 Feb 25 06:47	9° <b>)</b> 34′53	0°48'07
morning rise	10196 Dec 22 02:42	22° <b>∡</b> ³35′04		max. Earth dist.	10203 Feb 24 22:50	9° <b>升</b> 32'25	10.46892 AU
Ü	10197 Mar 13 14:21	0°ಕ		morning rise	10203 Mar 14 13:31	11° <b>)</b> 43'35	
retrograde	10197 Apr 04 13:21	0° <b>පි</b> 26'07		retrograde	10203 Jun 23 15:01	19° <b>)</b> 15'55	
retrograde	10197 Apr 26 13:48	30°R. <b>₹</b>		opposition	10203 Aug 30 10:33	15° <b>X</b> 54'39	0°44'35
onnosition	10197 Apr 20 13:48 10197 Jun 10 21:23	27° <b>₹</b> '00'48	2°21'58	min. Earth dist.	-	15° <b>X</b> 53'24	8.49153 AU
opposition					10203 Aug 30 16:55		8.49133 AU
min. Earth dist.	10197 Jun 11 02:09	26° <b>₹</b> ′59'51	8.31733 AU	direct	10203 Nov 08 02:19	12° <b>)</b> €28'57	
direct	10197 Aug 17 21:46	23° <b>⋌</b> ³33'38		evening set	10204 Feb 21 03:08	20° <b>)</b> 14'34	
	10197 Nov 18 09:06	0°ಕ					
evening set	10197 Nov 30 16:51	1° <b>る</b> 29'33		conjunction	10204 Mar 09 11:02	22° <b>∺</b> 23'04	0°23'27
				minimum elong	10204 Mar 09 11:03	22° <b>)</b> €23'05	0°23'34
conjunction	10197 Dec 18 11:17	3° <b>₹</b> 43'13	1°55'14	max. Earth dist.	10204 Mar 09 03:25	22° <b>∺</b> 20'42	10.51411 AU
minimum elong	10197 Dec 18 11:17	3° <b>る</b> 43'13	1°55'41	morning rise	10204 Mar 26 15:36	24° <b>)</b> € 30'37	
max. Earth dist.	10197 Dec 18 03:50	3°₹40'52	10.31745 AU		10204 May 18 03:23	$0^{\circ}\mathbf{Y}$	
morning rise	10198 Jan 05 04:02	5°₹56'26		retrograde	10204 Jul 05 14:17	1° <b>Y</b> 59'58	
retrograde	10198 Apr 18 04:25	13°₹45'38			10204 Aug 24 18:34	30° <b>₽</b> ₩	
opposition	10198 Jun 24 08:40	10° <b>る</b> 21'03	2°22'10	opposition	10204 Sep 11 16:31	28°\ <del>X</del> 39'09	0°13'32
min. Earth dist.	10198 Jun 24 14:55	10 <b>3</b> 21 03	8.32333 AU	min. Earth dist.	10204 Sep 11 10:31 10204 Sep 11 22:35	28° <b>H</b> 37'58	8.53669 AU
			6.32333 AU				8.33009 AU
direct	10198 Aug 31 14:23	6° <b>る</b> 53'42		direct	10204 Nov 20 12:30	25° <b>)</b> €14'11	
evening set	10198 Dec 14 19:32	14° <b>る</b> 50'45			10205 Feb 07 18:43	0° <b>Υ</b>	
				desc. node	10205 Feb 20 22:13	1° <b>Y</b> 28'15	
conjunction	10199 Jan 01 12:48	17° <b>る</b> 04'03	1°52'17	evening set	10205 Mar 05 05:12	2° <b>Y</b> 55'53	
minimum elong	10199 Jan 01 12:49	17° <b>る</b> 04'03	1°52'44				
max. Earth dist.	10199 Jan 01 03:54	17° <b>る</b> 01'14	10.32936 AU	conjunction	10205 Mar 22 10:28	5° <b>Y</b> 03′08	-0°02'01
morning rise	10199 Jan 19 03:54	19° <b>る</b> 16'42		minimum elong	10205 Mar 22 10:27	5° <b>Y</b> 03′08	0°02'01
retrograde	10199 May 01 15:40	27° <b>⋜</b> 03'15		behind sun begin	10205 Mar 22 03:20	5° <b>Y</b> ′00'57	
opposition	10199 Jul 07 20:20	23° <b>る</b> 39'25	2°14'44	behind sun end	10205 Mar 22 17:34	5° <b>℃</b> 05'19	
min. Earth dist.	10199 Jul 08 03:29	23° <b>る</b> 37'59	8.34085 AU	max. Earth dist.	10205 Mar 22 03:33		10.55915 AU
direct	10199 Sep 14 10:05	20°る12'04	0.5 1005 110	morning rise	10205 Apr 08 12:50	7° <b>Υ</b> '09'31	10.00910110
	10199 Sep 14 10:05 10199 Dec 28 19:40	20 <b>3</b> 12 04 28° <b>3</b> 08'53		=	10205 Apr 08 12:30 10205 Jul 18 10:41	14° <b>Y</b> 36'24	
evening set				retrograde		14 1 30 24 11° <b>Υ</b> 15'53	0017150
	10200 Jan 12 15:12	0° <b>≈</b>		opposition	10205 Sep 24 21:00		
				min. Earth dist.	10205 Sep 25 01:33	11° <b>Υ</b> 15'01	8.58114 AU
conjunction	10200 Jan 15 11:35	0° <b>≈</b> 21'33	1°43'22	direct	10205 Dec 03 20:22	7° <b>Y</b> ′51′42	
minimum elong	10200 Jan 15 11:37	0° <b>≈</b> 21'34	1°43'46	evening set	10206 Mar 18 02:35	15° <b>Y</b> 29'19	
max. Earth dist.	10200 Jan 15 02:00	0° <b>≈</b> 18'32	10.35248 AU				
morning rise	10200 Feb 02 00:51	2° <b>≈</b> 33'26		conjunction	10206 Apr 04 05:13	17° <b>Ƴ</b> 35'18	-0°27'04
retrograde	10200 May 15 00:50	10° <b>≈</b> 16'44		minimum elong	10206 Apr 04 05:12	17° <b>Ƴ</b> 35′18	0°27'10
opposition	10200 Jul 21 07:36	6° <b>≈</b> 53'37	2°00'10	max. Earth dist.	10206 Apr 04 00:30	17° <b>Ƴ</b> 33'51	10.60262 AU
min. Earth dist.	10200 Jul 21 14:47	6° <b>≈</b> 52'11	8.36877 AU	morning rise	10206 Apr 21 05:19	19° <b>Ƴ</b> 40'32	
direct	10200 Sep 28 05:06	3° <b>≈</b> 26'27		retrograde	10206 Jul 31 05:07	27° <b>Y</b> 05'34	
evening set	10201 Jan 11 16:27	11° <b>≈</b> 21'44		opposition	10206 Oct 07 23:50	23° <b>Y</b> 45'10	-0°48'03
<b>3</b>				min. Earth dist.	10206 Oct 08 02:08	23° <b>Y</b> '44'44	8.62334 AU
conjunction	10201 Jan 29 06:49	13° <b>≈</b> 33'35	1°29'02	direct	10206 Dec 17 02:09	20° <b>Υ</b> 21'45	
minimum elong	10201 Jan 29 06:51	13° <b>≈</b> 33'36		evening set	10207 Mar 30 19:44	27° <b>Υ</b> 55'18	
max. Earth dist.	10201 Jan 28 21:32		10.38522 AU	evening set	1020/ Mai 30 17.44	27   33 10	
max. Earm uist.			10.36322 AU		10207 A 16 10.52	00 00105	0950120
morning	10201 Feb 09 18:23	15°≈ 15°≈44'30		conjunction minimum elong	10207 Apr 16 19:53	0° <b>と</b> 00'05 0° <b>と</b> 00'04	
morning rise	10201 Feb 15 18:04	15° <b>≈</b> 44'30		minimum eiong	10207 Apr 16 19:51		0-30/31
retrograde	10201 May 28 08:32	23° <b>≈</b> 24'06	40001	<u>.</u>	10207 Apr 16 19:38	0°8	
opposition	10201 Aug 03 17:48	20° <b>≈</b> 01'38		max. Earth dist.	10207 Apr 16 17:57		10.64291 AU
min. Earth dist.	10201 Aug 04 00:27	20° <b>≈</b> 00'19	8.40509 AU	morning rise	10207 May 03 17:51	2° <b>8</b> 04'14	
direct	10201 Oct 11 22:05	16° <b>≈</b> 34'50		retrograde	10207 Aug 12 23:37	9° <b>8</b> 27'57	
evening set	10202 Jan 25 08:54	24° <b>≈</b> 27'30		opposition	10207 Oct 21 00:50	6° <b>႘</b> 07'32	-1°15'44
				min. Earth dist.	10207 Oct 21 01:01	6° <b>8</b> 07'30	8.66164 AU
conjunction	10202 Feb 11 21:27	26° <b>≈</b> 38′21	1°10'11	direct	10207 Dec 30 02:51	2° <b>8</b> 44'49	
minimum elong	10202 Feb 11 21:29	26° <b>≈</b> 38′22	1°10'28	evening set	10208 Apr 11 09:06	10° <b>8</b> 14'31	
max. Earth dist.	10202 Feb 11 13:00	26° <b>≈</b> 35'43	10.42508 AU				
morning rise	10202 Mar 01 06:29	28° <b>≈</b> 48'12		conjunction	10208 Apr 28 06:55	12° <b>8</b> 18'11	-1°11'44
<i>5</i>	10202 Mar 11 04:11	0° <b>∀</b>		minimum elong	10208 Apr 28 06:53	12° <b>8</b> 18'10	
retrograde	10202 Jun 10 13:36	6° <b>∺</b> 24'00		max. Earth dist.	10208 Apr 28 07:22		10.67832 AU
opposition	10202 Juli 10 13:30 10202 Aug 17 02:54	3° <b>∺</b> 02'10	1013144	morning rise	10208 Apr 28 07.22 10208 May 15 03:06	14° <b>8</b> 21'25	10.07032 AU
• •	_			morning 1150	-		
min. Earth dist.	10202 Aug 17 09:18		8.44700 AU		10208 May 20 12:40	15° <b>8</b>	
	10202 Oct 03 18:28	30°R≈		retrograde	10208 Aug 24 15:41	21° <b>8</b> 44'24	1026:15
direct	10202 Oct 25 12:58	29°≈35'51		opposition	10208 Nov 02 00:19	18° <b>8</b> 23'49	
	10202 Nov 16 06:06	0° <b>)</b>		min. Earth dist.	10208 Nov 01 23:08		8.69434 AU
evening set	10203 Feb 07 20:24	7° <b>∺</b> 25′10		direct	10209 Jan 11 00:29	15° <b>8</b> 01'45	
				evening set	10209 Apr 23 19:13	22° <b>8</b> 27'56	

conjunction minimum elong max. Earth dist. morning rise	10209 May 10 14:56 10209 May 10 14:53 10209 May 10 16:48 10209 May 27 09:54 10209 Jun 27 05:51	_		conjunction minimum elong max. Earth dist. morning rise	10215 Jul 22 04:44 10215 Jul 22 04:47 10215 Jul 22 14:32 10215 Aug 08 06:27 10215 Oct 04 20:15	7° N 09'08 7° N 09'09 7° N 12'07 9° N 13'10 15° N	
retrograde	10209 Sep 06 06:04	3° <b>Ⅱ</b> 56'01		retrograde	10215 Nov 20 12:42	16° <b>Ω</b> 45'31	
opposition	10209 Nov 14 22:18	0°Ⅲ35′12	-1°59'01		10216 Jan 07 09:55	15°R <b>Ω</b>	
min. Earth dist.	10209 Nov 14 19:47		8.72010 AU	opposition	10216 Jan 29 16:53	13° <b>Ω</b> 21'48	
	10209 Nov 22 16:54	30° <b>₹8</b>		min. Earth dist.	10216 Jan 29 08:20		8.68949 AU
direct	10210 Jan 23 20:43	27° <b>႘</b> 13'40 0° <b>Ⅱ</b>		direct	10216 Apr 07 07:36	10° <b>Ω</b> 01'26	
evening set	10210 Mar 23 20:30 10210 May 06 02:44	0°Щ 4°∏36'49		evening set	10216 Jun 26 10:42 10216 Jul 16 16:03	15° <b>Ω</b> 17° <b>Ω</b> 19'35	
evening set	10210 May 00 02.44	4 <b>H</b> 3049		evening set	10210 Jul 10 10.03	1/ 061933	
conjunction	10210 May 22 20:59	6° <b>Ⅱ</b> 38'50	-1°43'00	conjunction	10216 Aug 02 17:39	19° <b>Ω</b> 23'50	-1°21'39
minimum elong	10210 May 22 20:58	6° <b>Ⅱ</b> 38'49	1°43'25	minimum elong	10216 Aug 02 17:41	19° <b>Ω</b> 23'51	1°21'59
max. Earth dist.	10210 May 23 00:36	6° <b>Ⅱ</b> 39'56	10.72892 AU	max. Earth dist.	10216 Aug 03 04:17	19° <b>Ω</b> 27'05	10.67256 AU
morning rise	10210 Jun 08 15:21	8° <b>Ⅱ</b> 40′51		morning rise	10216 Aug 19 22:27	21° <b>Ω</b> 29'04	
retrograde	10210 Sep 18 20:59	16° <b>Ⅲ</b> 04'11		retrograde	10216 Dec 02 13:12	29° <b>Ω</b> 04'04	
opposition	10210 Nov 27 18:54	12° <b>∏</b> 42'59		opposition	10217 Feb 10 12:21	25° <b>Ω</b> 39'48	
min. Earth dist.	10210 Nov 27 14:35		8.73785 AU	min. Earth dist.	10217 Feb 10 03:25		8.65548 AU
direct	10211 Feb 05 14:02	9° <b>Ⅱ</b> 21'57		direct	10217 Apr 19 19:51	22° <b>Ω</b> 19'11	
evening set	10211 May 18 08:14	16° <b>∏</b> 42'33		evening set	10217 Jul 29 05:33	29° <b>Ω</b> 39'03	
conjunction	10211 Jun 04 01:55	18° <b>∏</b> 44'10	1051156		10217 Aug 01 03:14	0° <b>m</b> )	
minimum elong	10211 Jun 04 01:54	18° <b>I</b> I44'10		conjunction	10217 Aug 15 10:20	1° <b>m</b> ) 44'34	-1°02'09
max. Earth dist.	10211 Jun 04 07:56		10.74205 AU	minimum elong	10217 Aug 15 10:22	1° <b>m</b> ) 44'34	
morning rise	10211 Jun 20 20:14	20° <b>I</b> I45'59	10.7.205110	max. Earth dist.	10217 Aug 15 20:53	~	10.63608 AU
retrograde	10211 Oct 01 11:53	28° <b>Ⅱ</b> 10′20		morning rise	10217 Sep 01 18:29	3° m 51'06	
opposition	10211 Dec 10 14:23	24° <b>Ⅱ</b> 48'41	-2°20'51	retrograde	10217 Dec 15 14:28	11° <b>m</b> ) 28'52	
min. Earth dist.	10211 Dec 10 07:54	24° <b>Ⅱ</b> 49'55	8.74661 AU	opposition	10218 Feb 23 08:51	8° <b>m</b> 04'07	-1°02'53
direct	10212 Feb 18 05:12	21° <b>Ⅱ</b> 28′04		min. Earth dist.	10218 Feb 23 00:25	8° <b>m</b> 05'45	8.61633 AU
evening set	10212 May 29 12:53	28° <b>Ⅱ</b> 46'47		direct	10218 May 02 10:22	4° <b>m</b> 43'05	
	10212 Jun 08 15:58	0₀ <b>©</b>		evening set	10218 Aug 10 23:39	12° <b>m</b> 05'28	
conjunction	10212 Jun 15 06:42	0° <b>5</b> 48'18	1°55'54	conjunction	10218 Aug 28 07:36	14° <b>m</b> 12'20	0°30'35
minimum elong	10212 Jun 15 06:42	0°548'18	1°56'21	minimum elong	10218 Aug 28 07:37	14° my 12'20	
max. Earth dist.	10212 Jun 15 14:54		10.74597 AU	max. Earth dist.	10218 Aug 28 16:36	-•	10.59531 AU
morning rise	10212 Jul 02 01:40	2°950'13	10.7 1357 110	morning rise	10218 Sep 14 19:08	16° <b>m</b> ) 20'15	10.57551710
retrograde	10212 Oct 13 04:40	10°9516'02		retrograde	10218 Dec 28 18:34	24° mp 00'44	
opposition	10212 Dec 22 09:08	6° <b>©</b> 53'55	-2°22'34	opposition	10219 Mar 08 06:30	20° m/35'34	-0°33'38
min. Earth dist.	10212 Dec 22 01:22	6° <b>©</b> 55'23	8.74588 AU	min. Earth dist.	10219 Mar 07 23:41	20° <b>m</b> 36'54	8.57388 AU
direct	10213 Mar 01 18:40	3° <b>5</b> 33'34		direct	10219 May 15 03:02	17° <b>m</b> 13'59	
evening set	10213 Jun 10 17:30	10° <b>©</b> 51'02		evening set	10219 Aug 23 22:39	24° <b>m</b> 39'34	
conjunction	10213 Jun 27 12:08	12° <b>©</b> 52'48	-1°54'43	conjunction	10219 Sep 10 09:41	26° <b>m</b> 47'48	-0°14'58
minimum elong	10213 Jun 27 12:08	12°952'49		minimum elong	10219 Sep 10 09:41	26° m) 47'48	0°15'02
max. Earth dist.	10213 Jun 27 21:11		10.74055 AU	behind sun begin	10219 Sep 10 07:13	26° m 47'03	0 10 02
morning rise	10213 Jul 14 08:40	14° <b>©</b> 55'08		behind sun end	10219 Sep 10 12:10	26° m/ 48'34	
retrograde	10213 Oct 25 22:50	22° <b>©</b> 22'49		max. Earth dist.	10219 Sep 10 16:47	26° <b>m</b> 49'58	10.55210 AU
opposition	10214 Jan 04 03:43	19° <b>©</b> 00'12	-2°17'57	morning rise	10219 Sep 28 00:16	28° <b>m</b> 57'04	
min. Earth dist.	10214 Jan 03 19:32	19° <b>©</b> 01'45	8.73577 AU		10219 Oct 06 19:53	0∘ <b>⊽</b>	
direct	10214 Mar 14 05:27	15° <b>©</b> 39'59		retrograde	10220 Jan 11 01:12	6° <b>₽</b> 40'09	
evening set	10214 Jun 22 22:51	22° <b>©</b> 56'55		opposition	10220 Mar 20 05:45	3° <b>≙</b> 14'40	-0°02'28
				min. Earth dist.	10220 Mar 20 00:37		8.53004 AU
conjunction	10214 Jul 09 19:05	24° <b>©</b> 59'14		asc. node	10220 Apr 18 09:44	1° <b>≏</b> 07'34	
minimum elong	10214 Jul 09 19:07	24°959'15			10220 May 15 01:07	30°R, Mp	
max. Earth dist.	10214 Jul 10 04:20		10.72606 AU	direct	10220 May 26 22:01	29° m 52'24	
morning rise	10214 Jul 26 18:01	27°502'18		ovenint	10220 Jun 07 19:15	0° <b>™</b>	
retrogrado	10214 Aug 21 23:27 10214 Nov 07 16:12	0°Ω 4°Ω32'11		evening set	10220 Sep 05 02:43	7° <b>≏</b> 21'46	
retrograde opposition	10214 Nov 07 16:12 10215 Jan 16 22:14	4° <b>λ</b> (32'11 1° <b>Ω</b> 09'01	-2°07'11	conjunction	10220 Sep 22 16:34	9° <b>≏</b> 31'18	0°10'41
min. Earth dist.	10215 Jan 16 22:14 10215 Jan 16 14:05		8.71670 AU	minimum elong	10220 Sep 22 16:34 10220 Sep 22 16:34	9° <b>2</b> 31'18	0°10'41 0°10'44
mm. Lattii dist.	10215 Feb 01 07:17	30°RS	5.71070 AU	behind sun begin	10220 Sep 22 10:34 10220 Sep 22 11:03	9° <b>£</b> 29'37	J 10 TT
direct	10215 Mar 26 18:15	27°5548'48		behind sun end	10220 Sep 22 11:03 10220 Sep 22 22:04	9° <b>₽</b> 32'59	
	10215 May 17 03:17	0°Ω		max. Earth dist.	10220 Sep 22 22:09		10.50822 AU
evening set	10215 Jul 05 06:06	5° <b>Ω</b> 05'58		morning rise	10220 Oct 10 09:34	11° <b>≏</b> 41'47	
-				retrograde	10221 Jan 23 08:38	19° <b>≙</b> 27'17	

				_		<del></del>	
opposition	10221 Apr 02 06:37	16° <b>≏</b> 01'30	0°29'09	retrograde	10227 Apr 13 15:56	8° <b>る</b> 19'12	
min. Earth dist.	10221 Apr 02 02:52	16° <b>≏</b> 02'15	8.48652 AU	opposition	10227 Jun 19 23:11	4° <b>る</b> 54'24	
direct	10221 Jun 08 21:39	12° <b>≏</b> 38'29		min. Earth dist.	10227 Jun 20 05:26	4° <b>る</b> 53'09	8.33245 AU
evening set	10221 Sep 18 12:12	20° <b>≙</b> 12'03		direct	10227 Aug 27 04:31	1° <b>る</b> 27'11	
				evening set	10227 Dec 10 03:05	9° <b>る</b> 22'50	
conjunction	10221 Oct 06 04:27	22° <b>₽</b> 22'47	0°35'57				
minimum elong	10221 Oct 06 04:25	22° <b>≏</b> 22'46	0°36'05	conjunction	10227 Dec 27 20:55	11° <b>る</b> 36'05	1°54'17
max. Earth dist.	10221 Oct 06 08:16	22° <b>≏</b> 23'58	10.46523 AU	minimum elong	10227 Dec 27 20:55	11° <b>පි</b> 36'06	1°54'45
morning rise	10221 Oct 23 23:07	24° <b>≏</b> 34'17		max. Earth dist.	10227 Dec 27 12:05	11° <b>る</b> 33'19	10.33388 AU
	10221 Dec 14 05:07	0°M₊		morning rise	10228 Jan 14 12:38	13° <b>る</b> 48'47	
retrograde	10222 Feb 05 19:15	2°M21'53		retrograde	10228 Apr 26 03:58	21° <b>る</b> 35'40	
Z .	10222 Apr 01 17:16	30°R <b>≏</b>		opposition	10228 Jul 02 09:44	18° <b>る</b> 11'24	2°18'48
opposition	10222 Apr 15 09:02	28° <b>£</b> 55'54	0°59'37	min. Earth dist.	10228 Jul 02 16:33	18° <b>る</b> 10'02	8.34089 AU
min. Earth dist.	10222 Apr 15 06:48	28° <b>≏</b> 56'21	8.44466 AU	direct	10228 Sep 08 21:45	14° <b>る</b> 43'56	0.5 1005 110
direct	10222 Jun 21 22:55	25° <b>⊆</b> 32'03	0.44400710	evening set	10228 Dec 23 03:26	22° <b>る</b> 40'01	
uncet	10222 Sun 21 22:55 10222 Sep 04 14:50	0° <b>M</b>		evening set	10220 DCC 23 03.20	22 04001	
evening set	10222 Sep 04 14:30 10222 Oct 02 02:50	3°ML10'11		conjunction	10229 Jan 09 20:07	24°る52'49	1°47'55
evening set	10222 Oct 02 02.30	3 1161011		·			
	10222 0 + 10 20 46	50 <b>M</b> 0.1157	0050127	minimum elong	10229 Jan 09 20:08	24°る52'50	
conjunction	10222 Oct 19 20:46	5°M21'57	0°59'37	max. Earth dist.	10229 Jan 09 10:45		10.34791 AU
minimum elong	10222 Oct 19 20:44	5°M21'56	0°59'51	morning rise	10229 Jan 27 10:03	27° <b>る</b> 04'52	
max. Earth dist.	10222 Oct 19 22:01		10.42446 AU		10229 Feb 21 05:50	0° <b>≈</b>	
morning rise	10222 Nov 06 16:25	7°M34'17		retrograde	10229 May 09 14:43	4° <b>≈</b> 48'52	
	10223 Jan 29 04:32	15° <b>M</b> ₊		opposition	10229 Jul 15 20:15	1° <b>≈</b> 25'11	2°07'18
retrograde	10223 Feb 19 08:40	15°M23'35		min. Earth dist.	10229 Jul 16 03:47	1° <b>≈</b> 23'41	8.35993 AU
	10223 Mar 12 12:53	15°RM			10229 Aug 03 04:26	30°Ŗる	
opposition	10223 Apr 28 13:26	11°M57'36	1°27'20	direct	10229 Sep 22 14:29	27° <b>る</b> 57'39	
min. Earth dist.	10223 Apr 28 13:15	11°ML57'38	8.40601 AU		10229 Nov 11 01:58	0° <b>≈</b>	
direct	10223 Jul 05 02:24	8°M32'56		evening set	10230 Jan 06 00:58	5° <b>≈</b> 52'56	
	10223 Oct 05 10:11	15° <b>M</b> ₊					
evening set	10223 Oct 15 21:58	16°ML15'46		conjunction	10230 Jan 23 16:05	8° <b>≈</b> 05'04	1°35'53
				minimum elong	10230 Jan 23 16:07	8° <b>≈</b> 05'05	1°36'16
conjunction	10223 Nov 02 16:50	18° <b>M</b> 28'19	1°20'23	max. Earth dist.	10230 Jan 23 06:08	8° <b>≈</b> 01'56	10.37213 AU
minimum elong	10223 Nov 02 16:47	18°ML28'18	1°20'43	morning rise	10230 Feb 10 04:07	10° <b>≈</b> 16'18	
max. Earth dist.	10223 Nov 02 14:56	18°ML27'43	10.38807 AU	. 8	10230 Mar 24 21:02	15° <b>≈</b>	
morning rise	10223 Nov 20 12:47	20°ML41'16	10.50007110	retrograde	10230 May 22 22:33	17° <b>≈</b> 56'54	
retrograde	10224 Mar 03 22:54	28°MJ31'46		retrograde	10230 Jul 23 18:01	15°R≈	
opposition	10224 May 10 19:47	25°M05'54	1°50'45	opposition	10230 Jul 29 06:11	14° <b>≈</b> 33'50	1°49'10
min. Earth dist.	10224 May 10 17:47 10224 May 10 21:57	25°M05'28	8.37328 AU	min. Earth dist.	10230 Jul 29 14:22	14°≈32'12	8.38849 AU
	10224 May 10 21:37 10224 Jul 17 10:22	23 11603 28 21°ML40'26	6.37326 AU			14 ≈32 12 11°≈06'27	6.36649 AU
direct				direct	10230 Oct 06 07:12	11 ≈0627 15°≈	
evening set	10224 Oct 28 20:55	29°M27'44		. ,	10230 Dec 15 13:24		
	10224 Nov 02 05:31	0° <b>∡</b> ¹		evening set	10231 Jan 19 18:31	18° <b>≈</b> 59'49	
conjunction	10224 Nov 15 16:09		1°37'04	conjunction	10231 Feb 06 07:48	21°≈11'04	1°18'56
minimum elong	10224 Nov 15 16:07	1° <b>∡</b> ¹40'50	1°37'28	minimum elong	10231 Feb 06 07:51	21° <b>≈</b> 11'05	1°19'15
max. Earth dist.	10224 Nov 15 11:20		10.35903 AU	max. Earth dist.	10231 Feb 05 21:29		10.40523 AU
morning rise	10224 Dec 03 11:49	3° <b>∡</b> ¹54'08		morning rise	10231 Feb 23 17:53	23° <b>≈</b> 21'21	
retrograde	10225 Mar 17 12:17	11° <b>∡</b> ′45′03			10231 May 03 00:21	0° <b>∀</b>	
opposition	10225 May 24 03:44	8° <b>∡</b> 19'27	2°08'28	retrograde	10231 Jun 05 02:36	0° <b>¥</b> 58′23	
min. Earth dist.	10225 May 24 08:02	8° <b>∡</b> 18'35	8.34915 AU		10231 Jul 08 16:51	30° <b>R</b> ≈	
direct	10225 Jul 30 22:20	4° <b>₮</b> 53'14		opposition	10231 Aug 11 15:08	27° <b>≈</b> 35'53	1°25'32
evening set	10225 Nov 11 22:23	12° <b>≯</b> ⁴44'22		min. Earth dist.	10231 Aug 11 22:58	27° <b>≈</b> 34′20	8.42507 AU
				direct	10231 Oct 19 23:30	24° <b>≈</b> 08'52	
conjunction	10225 Nov 29 17:33	14° <b>∡</b> ¹57'48	1°48'42		10232 Jan 16 13:32	0° <b>)</b> €	
minimum elong	10225 Nov 29 17:31	14° <b>×</b> 757'47	1°49'09	evening set	10232 Feb 02 07:23	1° <b>¥</b> 59′23	
max. Earth dist.	10225 Nov 29 10:25	14° <b>∡</b> 55'33	10.33960 AU	•			
morning rise	10225 Dec 17 12:21	17° <b>∡</b> 11'08		conjunction	10232 Feb 19 18:41	4° <b>₩</b> 09'35	0°58'04
retrograde	10226 Mar 31 02:20	25° <b>∡</b> 01'35		minimum elong	10232 Feb 19 18:43	4° <b>₩</b> 09'35	0°58'18
opposition	10226 Jun 06 13:01	21° <b>∡</b> ³36′20	2°19'26	max. Earth dist.	10232 Feb 19 09:12	4°¥06'37	10.44541 AU
min. Earth dist.	10226 Jun 06 18:44	21° <b>×</b> <sup>7</sup> 35'12		morning rise	10232 Mar 08 02:41	6° <b>¥</b> 18'48	120
direct	10226 Aug 13 12:30	18° × 09'32		retrograde	10232 Jun 17 03:52	13° <b>¥</b> 52′20	
evening set	10226 Nov 26 00:56	26° × 03'31		opposition	10232 Juli 17 03:32 10232 Aug 23 22:41	13 <b>X</b> 32 20 10° <b>X</b> 30′22	0°57'47
c ronning sec	10220 1101 20 00.30	20 7 0331		min. Earth dist.	10232 Aug 23 22:41 10232 Aug 24 05:18	10 <b>X</b> 30 22 10° <b>X</b> 29'04	8.46767 AU
conjunction	10226 Dec 13 19:35	28° <b>∡</b> 16'59	1°54'33	direct	10232 Aug 24 03.18 10232 Nov 01 14:15	7° <b>∺</b> 03'56	3.40/0/ AU
•			1°55'01			14° <b>X</b> 50'55	
minimum elong max. Earth dist.	10226 Dec 13 19:35		10.33102 AU	evening set	10233 Feb 14 15:36	14 V2022	
max. Earui üist.	10226 Dec 13 11:17		10.33102 AU	aamin	10222 M 04 00 41	160M 50157	0024120
	10226 Dec 27 11:50	0°る		conjunction	10233 Mar 04 00:41	16° <b>¥</b> 59'57	0°34'28
morning rise	10226 Dec 31 13:00	0° <b>ප</b> 30'06		minimum elong	10233 Mar 04 00:42	16° <b>¥</b> 59'57	0°34'37

max. Earth dist.	10233 Mar 03 16:55	16° <b>¥</b> 57'32	10.49048 AU	direct	10239 Jan 18 10:47	21° <b>8</b> 57'56	
morning rise	10233 Mar 21 06:22	10 <b>X</b> 37 32 19° <b>X</b> 07'59	10.49048 AU	evening set	10239 Apr 30 21:16	29° <b>8</b> 21'42	
retrograde	10233 Jun 30 04:31	26° <b>¥</b> 38'15		evening set	10239 May 06 04:44	29 <b>О</b> 21 <del>4</del> 2	
opposition	10233 Sep 06 04:36	23° <b>X</b> 16'49	0°27'27		1023) Way 00 04.44	о д	
min. Earth dist.	10233 Sep 06 09:37	23° <b>X</b> 15'50	8.51409 AU	conjunction	10239 May 17 16:12	1° <b>Ⅱ</b> 23'48	-1°37'13
direct	10233 Nov 15 00:15	19° <b>)</b> 51'08	0.01.05.110	minimum elong	10239 May 17 16:10	1° <b>Ⅲ</b> 23'48	
evening set	10234 Feb 27 18:58	27° <b>)</b> 34'09		max. Earth dist.	10239 May 17 20:46		10.73813 AU
evening sec	1023 11 00 27 10.00	27 7(3.0)		morning rise	10239 Jun 03 10:34	3° <b>П</b> 25'47	10.75015110
conjunction	10234 Mar 17 01:36	29° <b>)</b> 41′56	0°09'25	retrograde	10239 Sep 13 13:01	10° <b>Ⅱ</b> 48'05	
minimum elong	10234 Mar 17 01:36	29° <b>)</b> 41′56	0°09'28	opposition	10239 Nov 22 06:53	7° <b>Ⅲ</b> 27'35	-2°07'01
behind sun begin	10234 Mar 16 19:39	29° <b>)</b> 40′06		min. Earth dist.	10239 Nov 22 02:08	7° <b>Ⅱ</b> 28'29	8.75030 AU
behind sun end	10234 Mar 17 07:32	29° <b>) (</b> 43'45		direct	10240 Jan 31 03:09	4° <b>Ⅱ</b> 06'56	
max. Earth dist.	10234 Mar 16 20:02	29° <b>¥</b> 40′13	10.53813 AU	evening set	10240 May 12 03:27	11° <b>Ⅲ</b> 27'53	
	10234 Mar 19 11:47	$0^{\circ}$ $\Upsilon$			•		
morning rise	10234 Apr 03 04:52	1° <b>Y</b> ′48'45		conjunction	10240 May 28 21:14	13° <b>Ⅱ</b> 29'26	-1°48'16
retrograde	10234 Jul 13 02:01	9° <b>Y</b> 16'12		minimum elong	10240 May 28 21:13	13° <b>Ⅲ</b> 29′25	1°48'43
desc. node	10234 Aug 03 22:03	8° <b>Y</b> 51'28		max. Earth dist.	10240 May 29 03:00	13° <b>Ⅲ</b> 31'11	10.75793 AU
opposition	10234 Sep 19 09:05	5° <b>Y</b> ′55'12	-0°03'53	morning rise	10240 Jun 14 15:19	15° <b>Ⅲ</b> 31′04	
min. Earth dist.	10234 Sep 19 12:46	5° <b>Y</b> 54'30	8.56209 AU	retrograde	10240 Sep 25 02:45	22° <b>II</b> 54'02	
direct	10234 Nov 28 07:36	2° <b>Y</b> ′30′24		opposition	10240 Dec 04 02:36	19° <b>Ⅲ</b> 33'16	-2°17'41
evening set	10235 Mar 12 17:32	10° <b>Ƴ</b> 09'15		min. Earth dist.	10240 Dec 03 21:06	19° <b>Ⅲ</b> 34'18	8.76557 AU
				direct	10241 Feb 11 18:19	16° <b>Ⅱ</b> 13′06	
conjunction	10235 Mar 29 21:27	12° <b>Y</b> 15'43	-0°15'57	evening set	10241 May 24 08:08	23° <b>II</b> 31'50	
minimum elong	10235 Mar 29 21:27	12° <b>Y</b> °15'43	0°16'00				
behind sun begin	10235 Mar 29 20:36	12° <b>Y</b> 15'27		conjunction	10241 Jun 10 01:32	25° <b>Ⅲ</b> 33′05	-1°54'31
behind sun end	10235 Mar 29 22:18	12° <b>Y</b> 15'58		minimum elong	10241 Jun 10 01:31	25° <b>Ⅲ</b> 33′05	1°54'59
max. Earth dist.	10235 Mar 29 17:33	12° <b>Y</b> 14'31	10.58604 AU	max. Earth dist.	10241 Jun 10 08:05	25° <b>Ⅲ</b> 35′05	10.76796 AU
morning rise	10235 Apr 15 22:28	14° <b>Y</b> 21'21		morning rise	10241 Jun 26 20:05	27° <b>Ⅲ</b> 34'40	
retrograde	10235 Jul 25 20:39	21° <b>Y</b> 46'33			10241 Jul 18 00:59	$0$ $\circ$ $60$	
opposition	10235 Oct 02 11:51	18° <b>Y</b> 25'55	-0°34'42	retrograde	10241 Oct 07 17:25	4° <b>9</b> 58'52	
min. Earth dist.	10235 Oct 02 14:31	18° <b>Y</b> °25'24	8.60936 AU	opposition	10241 Dec 16 21:29	1° <b>5</b> 37'40	-2°22'15
direct	10235 Dec 11 12:49	15° <b>Y</b> ′02′00		min. Earth dist.	10241 Dec 16 15:09		8.77043 AU
evening set	10236 Mar 24 11:53	22° <b>Y</b> 36'44			10242 Jan 08 10:00	30°Ŗ <b>Ⅱ</b>	
				direct	10242 Feb 24 09:14	28° <b>Ⅱ</b> 17'49	
				direct			
conjunction	10236 Apr 10 13:04	24° <b>Y</b> '41'54			10242 Apr 10 19:34	0ಂಣ	
minimum elong	10236 Apr 10 13:03	24° <b>Y</b> '41'54	0°40'25	evening set			
minimum elong max. Earth dist.	10236 Apr 10 13:03 10236 Apr 10 10:25	24° <b>Υ</b> 41'54 24° <b>Υ</b> 41'05		evening set	10242 Apr 10 19:34 10242 Jun 05 12:21	0°ഇ 5° <b>ഇ</b> 34'58	
minimum elong	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01	24° <b>Y</b> 41'54 24° <b>Y</b> 41'05 26° <b>Y</b> 46'25	0°40'25	evening set	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20	0°5 5°534'58 7°536'19	
minimum elong max. Earth dist. morning rise	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58	24°Y41'54 24°Y41'05 26°Y46'25 0°8	0°40'25	evening set  conjunction  minimum elong	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21	0°© 5°©34'58 7°©36'19 7°©36'19	1°56'10
minimum elong max. Earth dist. morning rise retrograde	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56	0°40'25 10.63195 AU	evening set  conjunction minimum elong max. Earth dist.	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15	0°\$0 5°\$34'58 7°\$36'19 7°\$36'19 7°\$38'43	
minimum elong max. Earth dist. morning rise retrograde opposition	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56 0°849'33	0°40'25 10.63195 AU -1°03'34	evening set  conjunction minimum elong max. Earth dist. morning rise	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02	0°95 5°934'58 7°936'19 7°936'19 7°938'43 9°938'09	1°56'10
minimum elong max. Earth dist. morning rise retrograde	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°8'09'56 0°8'49'33 0°8'49'19	0°40'25 10.63195 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15	0°95 5°934'58 7°936'19 7°936'19 7°938'43 9°938'09 17°904'02	1°56'10 10.76718 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56 0°849'33 0°849'19 30°8Y	0°40'25 10.63195 AU -1°03'34	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38	0°95 5°934'58 7°936'19 7°936'19 7°938'43 9°938'09 17°904'02 13°942'18	1°56'10 10.76718 AU -2°20'33
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minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56 10236 Dec 23 14:42 10237 Feb 18 06:28	24°Υ41'54 24°Υ41'05 26°Υ46'25 0°႘ 4°႘09'56 0°႘49'33 0°႘49'19 30°႙Υ 27°Υ26'32 0°႘	0°40'25 10.63195 AU -1°03'34	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38 10242 Dec 29 08:15 10243 Mar 08 21:43	0°5 5°534'58  7°536'19 7°536'19 7°538'43 9°538'09 17°504'02 13°542'18 13°543'41 10°522'38	1°56'10 10.76718 AU -2°20'33
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minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct evening set conjunction	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56 10236 Dec 23 14:42 10237 Feb 18 06:28 10237 Apr 06 02:17	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56 0°849'33 0°849'19 30°8Y 27°Y26'32 0°8 4°857'18	0°40'25 10.63195 AU -1°03'34 8.65367 AU	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38 10242 Dec 29 08:15 10243 Mar 08 21:43 10243 Jun 17 16:57	0°95 5°934'58 7°936'19 7°936'19 7°938'43 9°938'09 17°904'02 13°942'18 13°943'41 10°922'38 17°938'57	1°56'10 10.76718 AU -2°20'33 8.76389 AU -1°51'46
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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	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56 10236 Dec 23 14:42 10237 Feb 18 06:28 10237 Apr 23 00:57 10237 Apr 23 00:57 10237 Apr 23 00:55 10237 Apr 23 00:12 10237 May 09 22:00 10237 Jul 08 13:37 10237 Aug 19 05:16 10237 Oct 01 03:21 10237 Oct 07 11:15 10237 Oct 27 11:14 10238 Jan 05 14:04	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56 0°849'33 0°849'19 30°8Y 27°Y26'32 0°8 4°857'18 7°801'17 7°801'16 7°801'03 9°804'46 15°88 13°806'58 13°806'58 13°807'10 9°844'51	0°40'25 10.63195 AU -1°03'34 8.65367 AU -1°02'31 1°02'46 10.67376 AU	evening set  conjunction 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	10242 Apr 10 19:34 10242 Jun 05 12:21 10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38 10242 Dec 29 08:15 10243 Mar 08 21:43 10243 Jul 04 12:23 10243 Jul 04 12:23 10243 Jul 04 12:24 10243 Jul 04 21:24 10243 Jul 04 21:24	0°S 5°S34'58  7°S36'19 7°S36'19 7°S38'43 9°S38'09 17°S04'02 13°S42'18 13°S43'41 10°S22'38 17°S38'57  19°S40'44 19°S40'45 19°S43'29 21°S43'11 29°S11'14 25°S48'54 25°S50'26 22°S29'13	1°56'10 10.76718 AU -2°20'33 8.76389 AU -1°51'46 1°52'14 10.75488 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	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56 10236 Dec 23 14:42 10237 Feb 18 06:28 10237 Apr 23 00:57 10237 Apr 23 00:57 10237 Apr 23 00:55 10237 Apr 23 00:12 10237 May 09 22:00 10237 Jul 08 13:37 10237 Aug 19 05:16 10237 Oct 01 03:21 10237 Oct 27 12:15 10237 Oct 27 11:14 10238 Jan 05 14:04 10238 Mar 30 12:24	24°Y41'54 24°Y41'05 26°Y46'25 0°8 4°809'56 0°849'33 0°849'19 30°8Y 27°Y26'32 0°8 4°857'18 7°801'17 7°801'16 7°801'03 9°804'46 15°8 16°827'16 15°88 13°806'58 13°806'58 13°807'10 9°844'51	0°40'25 10.63195 AU -1°03'34 8.65367 AU -1°02'31 1°02'46 10.67376 AU	evening set  conjunction 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	10242 Apr 10 19:34 10242 Jun 05 12:21  10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38 10242 Dec 29 08:15 10243 Mar 08 21:43 10243 Jul 04 12:23 10243 Jul 04 12:23 10243 Jul 04 12:24 10243 Jul 04 12:24 10243 Jul 04 21:24 10243 Jul 04 21:24 10243 Jul 109:54 10244 Jul 109:54 10244 Jul 109:43 10244 Jul 11 09:43 10244 Jul 11 01:39 10244 Jul 28 23:03 10244 Jul 28 23:03 10244 Jul 30 23:24	0°\$\text{5}\$ 5°\$\text{3}4'58\$  7°\$\text{3}6'19} 7°\$\text{3}6'19} 7°\$\text{3}8'43} 9°\$\text{3}8'09} 17°\$\text{9}04'02} 13°\$\text{4}2'18} 13°\$\text{4}2'18} 13°\$\text{4}2'38} 17°\$\text{3}8'57}  19°\$\text{4}0'44} 19°\$\text{4}0'45} 19°\$\text{4}0'45} 19°\$\text{4}3'29} 21°\$\text{4}3'11} 29°\$\text{1}1'14} 25°\$\text{4}8'54} 25°\$\text{5}48'54} 25°\$\text{5}0'26} 22°\$\text{2}9'13} 29°\$\text{4}5'33} 0°\$\text{\$\alpha\$}	1°56'10 10.76718 AU -2°20'33 8.76389 AU -1°51'46 1°52'14 10.75488 AU -2°12'38 8.74582 AU
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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	10236 Apr 10 13:03 10236 Apr 10 10:25 10236 Apr 27 12:01 10236 May 25 22:58 10236 Aug 06 14:06 10236 Oct 14 12:46 10236 Oct 14 14:00 10236 Oct 25 10:56 10236 Dec 23 14:42 10237 Apr 06 02:17  10237 Apr 23 00:57 10237 Apr 23 00:55 10237 Apr 23 00:12 10237 May 09 22:00 10237 Jul 08 13:37 10237 Aug 19 05:16 10237 Oct 01 03:21 10237 Oct 27 12:15 10237 Oct 27 12:15 10238 Jan 05 14:04 10238 Mar 30 12:24 10238 Apr 18 13:06	24°Y41'54 24°Y41'05 26°Y46'25 0°B 4°B09'56 0°B49'33 0°B49'19 30°RY 27°Y26'32 0°B 4°B57'18 7°B01'17 7°B01'16 7°B01'03 9°B04'46 15°B 16°B27'16 15°RB 13°B06'58 13°B07'10 9°B44'51 15°B 17°B11'55	0°40'25 10.63195 AU -1°03'34 8.65367 AU -1°02'31 1°02'46 10.67376 AU -1°29'14 8.69302 AU	evening set  conjunction 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	10242 Apr 10 19:34 10242 Jun 05 12:21  10242 Jun 22 06:20 10242 Jun 22 06:21 10242 Jun 22 14:15 10242 Jul 09 02:02 10242 Oct 20 10:15 10242 Dec 29 15:38 10242 Dec 29 08:15 10243 Mar 08 21:43 10243 Jul 04 12:23 10243 Jul 04 12:24 10243 Jul 04 12:24 10243 Jul 04 21:24 10243 Jul 04 21:24 10243 Jul 04 21:24 10243 Jul 10 09:54 10244 Jul 109:43 10244 Jul 11 09:43 10244 Jun 28 23:03 10244 Jun 30 23:24  10244 Jul 15 20:28 10244 Jul 15 20:28	0°\$ 5°\$34'58  7°\$36'19 7°\$36'19 7°\$38'43 9°\$38'09 17°\$04'02 13°\$42'18 13°\$43'41 10°\$22'38 17°\$38'57  19°\$40'44 19°\$40'45 19°\$43'29 21°\$43'11 29°\$11'14 25°\$48'54 25°\$50'26 22°\$29'13 29°\$45'33 0°\$\$\text{\$\alpha\$}\$	1°56'10 10.76718 AU -2°20'33 8.76389 AU -1°51'46 1°52'14 10.75488 AU -2°12'38 8.74582 AU -1°42'51 1°43'16
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agniumation	10245 Jul 28 07:29	13° <b>Ω</b> 59'47	1920/16	direct	10251 Jun 16 05:35	19° <b>≏</b> 46'42	
conjunction							
minimum elong	10245 Jul 28 07:31	13° <b>Ω</b> 59'48		evening set	10251 Sep 26 03:30	27° <b>≏</b> 23'14	
max. Earth dist.	10245 Jul 28 15:58		10.69964 AU		10051 0 4 10 00 07	200 2 2 4142	0040155
	10245 Aug 05 13:16	15°Ω		conjunction	10251 Oct 13 20:37	29° <b>≏</b> 34'43	0°48'55
morning rise	10245 Aug 14 10:45	16° <b>Ω</b> 04'18		minimum elong	10251 Oct 13 20:35	29° <b>≏</b> 34'42	0°49'08
retrograde	10245 Nov 26 22:26	23° <b>Ω</b> 37'35		max. Earth dist.	10251 Oct 13 21:31		10.42571 AU
opposition	10246 Feb 04 23:12	20° <b>Ω</b> 13'52	-1°39'24		10251 Oct 17 05:49	0° <b>M</b> ₊	
min. Earth dist.	10246 Feb 04 16:06		8.68141 AU	morning rise	10251 Oct 31 16:06	1°M46'54	
direct	10246 Apr 14 08:59	16° <b>Ω</b> 53'34		retrograde	10252 Feb 13 10:07	9° <b>™</b> 36′04	
evening set	10246 Jul 23 19:04	24° <b>Ω</b> 12'12		opposition	10252 Apr 21 19:29	6°M09'30	1°14'58
				min. Earth dist.	10252 Apr 21 19:16	6°M09'33	8.40561 AU
conjunction	10246 Aug 09 22:10	26° <b>Ω</b> 17'00	-1°11'31	direct	10252 Jun 28 08:58	2°M44'36	
minimum elong	10246 Aug 09 22:12	26° <b>Ω</b> 17'00	1°11'49	evening set	10252 Oct 08 20:27	10°M25'51	
max. Earth dist.	10246 Aug 10 06:18	26°Ω19'29	10.66038 AU	Č			
morning rise	10246 Aug 27 04:51	28° <b>Ω</b> 22'50		conjunction	10252 Oct 26 15:01	12°M38'15	1°11'12
	10246 Sep 10 01:30	0° mp		minimum elong	10252 Oct 26 14:58	12°MJ38'15	1°11'29
retrograde	10246 Dec 09 20:58	5° Mp 58'58		max. Earth dist.	10252 Oct 26 14:21		10.38654 AU
opposition	10247 Feb 17 19:00	2° m 34'32	1015110	morning rise	10252 Nov 13 11:06	14°ML51'10	10.36034 AC
		•		morning rise			
min. Earth dist.	10247 Feb 17 12:23	2° m/35'49	8.63890 AU		10252 Nov 14 16:00	15°M	
	10247 Mar 27 19:43	30°R€		retrograde	10253 Feb 25 22:53	22°M41'51	10.4012.5
direct	10247 Apr 27 00:18	29° <b>Ω</b> 13'39		opposition	10253 May 05 01:02	19° <b>M</b> ₊15'18	1°40'35
	10247 May 26 18:05	0° <b>m</b> y		min. Earth dist.	10253 May 05 01:54	19° <b>M</b> .15'07	8.37038 AU
evening set	10247 Aug 05 10:40	6° Mg 34′36		direct	10253 Jul 11 16:11	15° <b>M</b> 49'37	
				evening set	10253 Oct 22 17:50	23°M35'27	
conjunction	10247 Aug 22 17:07	8° <b>™</b> 40'47	-0°50'18				
minimum elong	10247 Aug 22 17:09	8° Mp 40'47	0°50'31	conjunction	10253 Nov 09 13:12	25°M48'33	1°29'55
max. Earth dist.	10247 Aug 23 01:13	8° Mp 43'15	10.61571 AU	minimum elong	10253 Nov 09 13:09	25°M48'32	1°30'17
morning rise	10247 Sep 09 03:04	10° Mp 48'00		max. Earth dist.	10253 Nov 09 10:53	25° <b>M</b> 47'49	10.35506 AU
retrograde	10247 Dec 22 23:55	18° <b>m</b> 27'04		morning rise	10253 Nov 27 09:07	28°M01'53	
opposition	10248 Mar 01 15:48	15° <b>m</b> ) 01'57	-0°47'28	3 2	10253 Dec 13 20:31	0° <b>∡</b> 7	
min. Earth dist.	10248 Mar 01 09:25	15° Mp 03'12	8.59207 AU	retrograde	10254 Mar 11 13:01	5° <b>×</b> 7'53'19	
direct	10248 May 08 16:03	11° Mp 40'25	0.57207 AC	opposition	10254 May 18 08:15	2° <b>×</b> <sup>7</sup> 27'01	2°01'05
	•	-•			•		
evening set	10248 Aug 17 06:57	19° Mp 04'22		min. Earth dist.	10254 May 18 10:24	2° <b>∡</b> ¹26'35	8.34378 AU
	10040 0 00 1640	010 m 11170	000 (100	T	10254 Jun 21 07:21	30°₹ <b>M</b> .	
conjunction	10248 Sep 03 16:40	21° Tp 11'59		direct	10254 Jul 25 01:40	29°M 00'39	
minimum elong	10248 Sep 03 16:41	21°Mp11'59	0°26'39		10254 Aug 27 13:30	0° <b>∡</b> ¹	
max. Earth dist.	10248 Sep 04 00:17		10.56773 AU	evening set	10254 Nov 05 18:27	6° <b>∡</b> ¹50'36	
morning rise	10248 Sep 21 05:43	23° Mp 20'38					
	10248 Nov 29 21:15	0∘ <b>⊽</b>		conjunction	10254 Nov 23 13:55	9° <b>∡</b> 104'07	1°43'59
retrograde	10249 Jan 04 05:46	1° <b>≏</b> 02'35		minimum elong	10254 Nov 23 13:53	9° <b>₮</b> 04'06	1°44'25
	10249 Feb 08 20:40	30°R, Mp		max. Earth dist.	10254 Nov 23 09:40	9° <b>∡</b> '02'47	10.33308 AU
opposition	10249 Mar 14 14:07	27° m/36'53	-0°17'04	morning rise	10254 Dec 11 09:06	11° <b>∡</b> 17'37	
min. Earth dist.	10249 Mar 14 08:23	27° m 38'00	8.54310 AU	retrograde	10255 Mar 25 05:10	19° <b>∡</b> 08'59	
direct	10249 May 21 08:58	24° m 14'35		opposition	10255 May 31 17:13	15° <b>∡</b> ¹43'07	2°15'16
	10249 Aug 15 21:32	0∘ <b>ರ</b>		min. Earth dist.	10255 May 31 20:55	15° <b>∡</b> ¹42'22	8.32738 AU
evening set	10249 Aug 30 08:21	1° <b>≏</b> 42'13		direct	10255 Aug 07 13:07	12° <b>×</b> 16'13	0.52750710
evening set	10249 Aug 30 06.21	1 == 42 13			10255 Aug 07 13:07 10255 Nov 19 20:46	20°×709'29	
aaniumatiam	10240 Can 16 21:00	3° <b>ჲ</b> 51'14	0001110	evening set	10233 NOV 19 20:40	ZU X:09729	
conjunction	10249 Sep 16 21:00				10255 D 07 15 40	220 722100	1052122
minimum elong	10249 Sep 16 21:01	3° <b>£</b> 51'14	0-01.1/	conjunction	10255 Dec 07 15:48	22° 🗷 23'08	1°52'33
behind sun begin	10249 Sep 16 13:48	3° <b>Ω</b> 49'02		minimum elong	10255 Dec 07 15:47	22° <b>×</b> <sup>7</sup> 23'07	1°53'01
behind sun end	10249 Sep 17 04:14	3° <b>≏</b> 53′26		max. Earth dist.	10255 Dec 07 09:26		10.32202 AU
max. Earth dist.	10249 Sep 17 02:47		10.51859 AU	morning rise	10255 Dec 25 09:53	24° <b>∡</b> ′36′32	
morning rise	10249 Oct 04 12:52	6° <b>ഫ</b> 01'15			10256 Feb 13 04:47	0°₹	
asc. node	10249 Oct 05 12:56	6° <b>≏</b> 08'31		retrograde	10256 Apr 06 19:43	2° <b>る</b> 26'58	
retrograde	10250 Jan 17 13:08	13° <b>≏</b> 45'56			10256 May 31 21:32	30°₽ <b>⋌</b> ¹	
opposition	10250 Mar 27 14:06	10° <b>≙</b> 19'47	0°14'32	opposition	10256 Jun 13 03:27	29° <b>∡</b> '01'41	2°22'14
min. Earth dist.	10250 Mar 27 10:05	10° <b>≏</b> 20'34	8.49418 AU	min. Earth dist.	10256 Jun 13 08:56	29° <b>х</b> 00′35	8.32223 AU
direct	10250 Mar 27 10:05						
				direct	10256 Aug 20 04:29	25° <b>∡</b> ³34′27	
evening set	10250 Jun 03 05:47	6° <b>ჲ</b> 56'37		direct	10256 Aug 20 04:29 10256 Nov 02 19:49	25° <b>渘</b> 34'27 0°る	
evening set					10256 Nov 02 19:49	5°0	
-	10250 Jun 03 05:47 10250 Sep 12 15:19	6° <b>£</b> 56'37 14° <b>£</b> 28'31	0°24'21	direct evening set	•		
conjunction	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27	6° <b>£</b> 56'37 14° <b>£</b> 28'31 16° <b>£</b> 38'51	0°24'21	evening set	10256 Nov 02 19:49 10256 Dec 02 23:44	0°ප 3°ප30'00	1°55'06
conjunction minimum elong	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26	6° <b>£</b> 56'37 14° <b>£</b> 28'31 16° <b>£</b> 38'51 16° <b>£</b> 38'51	0°24'27	evening set	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58	0°る 3°る30'00 5°る43'31	1°55'06
conjunction minimum elong max. Earth dist.	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26 10250 Sep 30 09:41	6°₾56'37 14°₾28'31 16°₾38'51 16°Ф39'51		evening set  conjunction  minimum elong	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58 10256 Dec 20 17:58	0°පි 3°පි30'00 5°පි43'31 5°පි43'31	1°55'34
conjunction minimum elong max. Earth dist. morning rise	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26 10250 Sep 30 09:41 10250 Oct 18 00:30	6°£56'37 14°£28'31 16°£38'51 16°£39'51 16°£50'03	0°24'27	evening set  conjunction  minimum elong  max. Earth dist.	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58 10256 Dec 20 17:58 10256 Dec 20 09:36	0°පි 3°පි30'00 5°පි43'31 5°පි43'53 5°පි40'53	
conjunction minimum elong max. Earth dist. morning rise retrograde	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26 10250 Sep 30 09:41 10250 Oct 18 00:30 10251 Jan 30 22:37	6°£56'37 14°£28'31 16°£38'51 16°£38'51 16°£39'51 18°£50'03 26°£37'11	0°24'27 10.47048 AU	evening set  conjunction  minimum elong  max. Earth dist.  morning rise	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58 10256 Dec 20 17:58 10256 Dec 20 09:36 10257 Jan 07 10:39	0°ට 3°ට30'00 5°ට43'31 5°ට43'31 5°ට40'53 7°ට56'36	1°55'34
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26 10250 Sep 30 09:41 10250 Oct 18 00:30 10251 Jan 30 22:37 10251 Apr 09 15:47	6°£56'37 14°£28'31 16°£38'51 16°£38'51 16°£39'51 18°£50'03 26°£37'11 23°£10'45	0°24'27 10.47048 AU 0°45'45	evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58 10256 Dec 20 17:58 10256 Dec 20 09:36 10257 Jan 07 10:39 10257 Apr 20 08:18	0°ප 3°ප30'00 5°ප43'31 5°ප40'53 7°ප56'36 15°ප45'10	1°55'34 10.32260 AU
conjunction minimum elong max. Earth dist. morning rise retrograde	10250 Jun 03 05:47 10250 Sep 12 15:19 10250 Sep 30 06:27 10250 Sep 30 06:26 10250 Sep 30 09:41 10250 Oct 18 00:30 10251 Jan 30 22:37	6°£56'37 14°£28'31 16°£38'51 16°£38'51 16°£39'51 18°£50'03 26°£37'11	0°24'27 10.47048 AU	evening set  conjunction  minimum elong  max. Earth dist.  morning rise	10256 Nov 02 19:49 10256 Dec 02 23:44 10256 Dec 20 17:58 10256 Dec 20 17:58 10256 Dec 20 09:36 10257 Jan 07 10:39	0°ට 3°ට30'00 5°ට43'31 5°ට43'31 5°ට40'53 7°ට56'36	1°55'34 10.32260 AU

i matri	10057 1 06 00 50	120710115	0.22066 444		10064 1 12 00 24	2001/15106	
min. Earth dist.	10257 Jun 26 20:59		8.32866 AU	desc. node	10264 Jan 13 00:34	29° <b>)</b> 15′06 0° <b>Y</b>	
direct	10257 Sep 02 22:22 10257 Dec 17 01:45	8° <b>ට</b> 53'12 16°ට49'50		evening set	10264 Jan 21 21:44	4° <b>Υ</b> 48'23	
evening set	1023 / Dec 1 / 01.43	10 04930		evening set	10264 Mar 06 08:12	4 1 46 23	
conjunction	10258 Jan 03 18:55	19° <b>る</b> 02'59	1°51'29	conjunction	10264 Mar 23 13:21	6° <b>Ƴ</b> 55'32	0°04'46
minimum elong	10258 Jan 03 18:57	19° <b>る</b> 02'59	1°51'56	minimum elong	10264 Mar 23 13:21	6°Υ55'31	0°04'47
max. Earth dist.	10258 Jan 03 09:37		10.33478 AU	behind sun begin	10264 Mar 23 06:24	6°Υ53'24	0 0447
morning rise	10258 Jan 21 09:56	21° <b>る</b> 15'30	10.55470710	behind sun end	10264 Mar 23 20:17	6°Υ57'39	
retrograde	10258 May 03 19:40	21 <b>3</b> 1330 29° <b>る</b> 01'27		max. Earth dist.	10264 Mar 23 06:39		10.56409 AU
opposition	10258 Jul 10 01:27	25° <b>る</b> 37'38	2°13'19	morning rise	10264 Apr 09 15:35	9° <b>Υ</b> 01'48	10.50407710
min. Earth dist.	10258 Jul 10 08:28	25° <b>る</b> 36'14	8.34623 AU	retrograde	10264 Jul 19 13:12	16°Υ28'30	
direct	10258 Sep 16 16:26	22° <b>ろ</b> 10'16	0.54025 710	opposition	10264 Sep 26 00:29	13°Υ08'00	-0°21'09
direct	10258 Dec 30 03:48	0°≈		min. Earth dist.	10264 Sep 26 04:29	13° <b>Υ</b> 07'14	8.58547 AU
evening set	10258 Dec 31 01:17	0°≈06'37		direct	10264 Dec 05 01:06	9° <b>Υ</b> 43'54	0.30347 110
evening set	10230 Dec 31 01.17	0 70.0037		evening set	10265 Mar 19 05:19	17° <b>Υ</b> 21'12	
conjunction	10259 Jan 17 17:09	2° <b>≈</b> 19'11	1°41'56	evening sec	10203 10141 17 03.17	17   21 12	
minimum elong	10259 Jan 17 17:11	2°≈19'11	1°42'21	conjunction	10265 Apr 05 07:53	19° <b>Ƴ</b> 27'06	-0°29'40
max. Earth dist.	10259 Jan 17 07:55		10.35780 AU	minimum elong	10265 Apr 05 07:52	19° <b>Υ</b> 27'06	
morning rise	10259 Feb 04 06:14	4°≈30'55	10.55700710	max. Earth dist.	10265 Apr 05 03:43		10.60617 AU
retrograde	10259 May 17 05:55	12°≈13'41		morning rise	10265 Apr 22 07:46	21° <b>Y</b> 32'15	10.00017710
opposition	10259 Jul 23 12:23	8°≈50'34	1°58'03	retrograde	10265 Aug 01 09:40	28° <b>Y</b> 57'14	
min. Earth dist.	10259 Jul 23 19:04	8° <b>≈</b> 49'14	8.37393 AU	opposition	10265 Oct 09 03:10	25° <b>Υ</b> 36'53	-0°51'07
direct	10259 Sep 30 10:00	5°≈23'27	0.57575710	min. Earth dist.	10265 Oct 09 05:22	25° <b>Y</b> 36'28	8.62606 AU
evening set	10260 Jan 13 21:27	13°≈18'15		direct	10265 Dec 18 04:22	22°Υ13'34	0.02000710
evening set	10260 Jan 27 12:19	15° <b>≈</b>		evening set	10266 Mar 31 22:23	29° <b>Y</b> 46'57	
	10200 Juli 27 12.17	13 70		evening set	10266 Apr 02 17:36	0° <b>8</b>	
conjunction	10260 Jan 31 11:47	15° <b>≈</b> 30'00	1°27'05		10200 Apr 02 17.30	v <b>O</b>	
minimum elong	10260 Jan 31 11:49	15°≈30'01	1°27'27	conjunction	10266 Apr 17 22:23	1° <b>8</b> 51'41	-0°53'01
max. Earth dist.	10260 Jan 31 03:12		10.39031 AU	minimum elong	10266 Apr 17 22:21	1° <b>8</b> 51'40	
morning rise	10260 Feb 17 22:47	17°≈40'48	10.57051710	max. Earth dist.	10266 Apr 17 20:23	_	10.64467 AU
retrograde	10260 May 29 13:01	25°≈19'56		morning rise	10266 May 04 20:10	3° <b>8</b> 55'48	10.04407 AC
opposition	10260 Aug 04 22:22	23 <b>≈</b> 1730 21° <b>≈</b> 57'31	1°36'44	retrograde	10266 Aug 14 02:39	11° <b>8</b> 19'38	
min. Earth dist.	10260 Aug 05 04:55	21°≈56'13	8.41008 AU	opposition	10266 Oct 22 04:22	7° <b>8</b> 59'16	-1°18'27
direct	10260 Oct 13 02:44	18° <b>≈</b> 30'46	0.41000710	min. Earth dist.	10266 Oct 22 05:09	7° <b>8</b> 59'07	
evening set	10260 Oct 13 02:44 10261 Jan 26 13:24	26°≈23'00		direct	10266 Dec 31 05:03	4° <b>8</b> 36'39	8.00230 AC
evening set	10201 Juli 20 13.24	20 ~23 00		evening set	10267 Apr 13 11:41	12° <b>8</b> 06'20	
conjunction	10261 Feb 13 01:50	28° <b>≈</b> 33'45	1°07'50	evening set	1020/ Прі 13 11.41	12 00020	
minimum elong	10261 Feb 13 01:52	28°≈33'45	1°08'07	conjunction	10267 Apr 30 09:16	14° <b>8</b> 09'58	-1°13'45
max. Earth dist.	10261 Feb 12 17:33		10.43013 AU	minimum elong	10267 Apr 30 09:14	14° <b>8</b> 09'58	
max. Earth dist.	10261 Feb 24 13:51	0° <b>∀</b>	10.15015710	max. Earth dist.	10267 Apr 30 08:49	_	10.67818 AU
morning rise	10261 Mar 02 10:42	0° <b>)</b> 43′29		max. Dartii dist.	10267 May 07 04:22	15° <b>8</b>	10.07010110
retrograde	10261 Jun 11 17:14	8° <b>¥</b> 18'53		morning rise	10267 May 17 05:29	16° <b>8</b> 13'13	
opposition	10261 Aug 18 07:15	4° <b>¥</b> 57'06	1°10'38	retrograde	10267 Aug 26 18:28	23° <b>8</b> 36'29	
min. Earth dist.	10261 Aug 18 14:03	4° <b>)</b> 55'46	8.45216 AU	opposition	10267 Nov 04 04:00	20° <b>8</b> 15'58	-1°41'57
direct	10261 Oct 26 17:52	1° <b>¥</b> 30′50	0.10210110	min. Earth dist.	10267 Nov 04 03:31	20° <b>8</b> 16'03	
evening set	10262 Feb 09 00:34	9° <b>₩</b> 19'42		direct	10268 Jan 13 04:17	16° <b>8</b> 53'57	0.09029110
e venning see	10202100 07 00.5.	, ,(1,, 1,2		evening set	10268 Apr 24 21:56	24° <b>8</b> 20'17	
conjunction	10262 Feb 26 10:41	11° <b>¥</b> 29'18	0°45'18				
minimum elong	10262 Feb 26 10:43	11° <b>¥</b> 29'19	0°45'29	conjunction	10268 May 11 17:32	26° <b>8</b> 23'01	-1°31'01
max. Earth dist.	10262 Feb 26 02:17		10.47429 AU	minimum elong	10268 May 11 17:30	26° <b>8</b> 23'00	
morning rise	10262 Mar 15 17:23	13° <b>)</b> €37'54		max. Earth dist.	10268 May 11 18:46	_	10.70529 AU
retrograde	10262 Jun 24 18:46	21° <b>)</b> 09'49		morning rise	10268 May 28 12:35	28° <b>8</b> 25'34	
opposition	10262 Aug 31 14:37	17° <b>)</b> 48'35	0°41'14		10268 Jun 10 23:05	0°II	
min. Earth dist.	10262 Aug 31 21:23	17° <b>)</b> 47'15	8.49707 AU	retrograde	10268 Sep 07 10:02	5° <b>Ⅱ</b> 48'50	
direct	10262 Nov 09 06:21	14° <b>¥</b> 22'56	0.15707110	opposition	10268 Nov 16 02:03	2° <b>I</b> 128'01	-2°00'42
evening set	10263 Feb 22 06:46	22° <b>)</b> €08'03		min. Earth dist.	10268 Nov 15 23:34	2° <b>∏</b> 28′29	
<i>5</i>					10268 Dec 22 17:13	30°R₩	
conjunction	10263 Mar 11 14:25	24° <b>¥</b> 16'26	0°20'43	direct	10269 Jan 25 00:07	29° <b>8</b> 06'33	
minimum elong	10263 Mar 11 14:26	24° <b>)</b> 16'26	0°20'48		10269 Feb 26 16:46	0°II	
max. Earth dist.	10263 Mar 11 06:16		10.51967 AU	evening set	10269 May 07 05:37	6° <b>∏</b> 29'55	
morning rise	10263 Mar 28 18:56	26° <b>)</b> €23'52	,				
5	10263 Apr 29 13:05	0°Υ		conjunction	10269 May 23 23:58	8° <b>Ⅲ</b> 32′00	-1°44'06
retrograde	10263 Jul 07 16:26	3° <b>Υ</b> ′52'51		minimum elong	10269 May 23 23:56	8° <b>Д</b> 31'59	
opposition	10263 Sep 13 20:19	0° <b>Υ</b> 32'03	0°10'08	max. Earth dist.	10269 May 24 03:52		10.72490 AU
min. Earth dist.	10263 Sep 13 20:13	0° <b>Υ</b> '30'54	8.54206 AU	morning rise	10269 Jun 09 18:17	10° <b>∏</b> 34'06	, ,
	10263 Sep 20 18:35	30° <b>₹</b>		retrograde	10269 Sep 20 00:48	17° <b>I</b> 57'57	
direct	10263 Nov 22 17:13	27° <b>)</b> €07'09		opposition	10269 Nov 28 23:00	14° <b>Ⅲ</b> 36'43	-2°13'57
		, , , , , ,			1_1, 1.0. 20 25.00		

min. Earth dist.	10269 Nov 28 18:11	1./∘∏37!3♀	8.73287 AU		10275 Oct 29 10:41	0° m/y	
direct	10209 Nov 28 18:11 10270 Feb 06 17:43	14 <b>H</b> 3738	6.73267 AU	retrograde	10275 Dec 04 20:06	1°Mp05'20	
evening set	10270 May 19 11:27	18° <b>Д</b> 36'38		retrograde	10276 Jan 10 16:22	30°RΩ	
evening set	10270 May 15 11.27	10 11 30 30		opposition	10276 Feb 12 18:56	27°Ω40'54	-1°25'53
conjunction	10270 Jun 05 05:14	20° <b>∏</b> 38′22	-1°52'29	min. Earth dist.	10276 Feb 12 09:58		8.64511 AU
minimum elong	10270 Jun 05 05:13	20° <b>I</b> I38'21		direct	10276 Apr 21 01:38	24°Ω20'07	0.0 10 11 110
max. Earth dist.	10270 Jun 05 11:45	20° <b>Ⅱ</b> 40′21	10.73618 AU		10276 Jul 16 04:22	0° m)	
morning rise	10270 Jun 21 23:33	22° <b>I</b> I40'16		evening set	10276 Jul 30 12:13	1° <b>m</b> )40'34	
C	10270 Sep 22 13:38	0∘ <b>©</b>		C		•	
retrograde	10270 Oct 02 17:35	0° <b>ട്ട</b> 05'14		conjunction	10276 Aug 16 17:13	3°M)46'17	-0°59'29
	10270 Oct 12 22:07	30°RⅡ		minimum elong	10276 Aug 16 17:15	3°Mp46'18	0°59'45
opposition	10270 Dec 11 18:57	26° <b>Ⅱ</b> 43'31	-2°21'12	max. Earth dist.	10276 Aug 17 03:09	3° m/49'20	10.62582 AU
min. Earth dist.	10270 Dec 11 12:21	26° <b>Ⅱ</b> 44'46	8.73993 AU	morning rise	10276 Sep 03 01:46	5° m 53'03	
direct	10271 Feb 19 09:09	23° <b>Ⅱ</b> 22'54		retrograde	10276 Dec 16 22:30	13° <b>m</b> /31'21	
	10271 May 25 18:39	$0$ $\circ$ $\odot$		opposition	10277 Feb 24 15:54	$10^{\circ}$ Mp $06'27$	-0°59'25
evening set	10271 May 31 16:35	0° <b>5</b> 641'58		min. Earth dist.	10277 Feb 24 07:58	10°M)08'00	8.60624 AU
				direct	10277 May 03 16:38	6° <b>™</b> 45'14	
conjunction	10271 Jun 17 10:28	2° <b>5</b> 43'38	-1°55'52	evening set	10277 Aug 12 06:54	14°M/08'11	
minimum elong	10271 Jun 17 10:28	2° <b>5</b> 43'38	1°56'20				
max. Earth dist.	10271 Jun 17 18:16	2° <b>5</b> 46'01	10.73858 AU	conjunction	10277 Aug 29 15:06	16°Mp 15'15	-0°36'38
morning rise	10271 Jul 04 05:39	4° <b>©</b> 45'42		minimum elong	10277 Aug 29 15:07	16° Mp 15'16	
retrograde	10271 Oct 15 10:45	12° <b>©</b> 12'07		max. Earth dist.	10277 Aug 29 23:40		10.58559 AU
opposition	10271 Dec 24 14:06	8° <b>©</b> 49'55		morning rise	10277 Sep 16 03:01	18° <b>m</b> 23'23	
min. Earth dist.	10271 Dec 24 06:56		8.73784 AU	retrograde	10277 Dec 30 02:32	26° Mp 04'21	
direct	10272 Mar 02 21:35	5°529'31		opposition	10278 Mar 09 13:59	22° m/39'03	
evening set	10272 Jun 11 21:43	12° <b>©</b> 47'27		min. Earth dist.	10278 Mar 09 07:27	22° m/40'20	8.56457 AU
	10070 Y 00 16 07	1.400.40100	105406	direct	10278 May 16 09:59	19° Mp 17'17	
conjunction	10272 Jun 28 16:27	14°549'22		evening set	10278 Aug 25 06:30	26° Mp 43'28	
minimum elong	10272 Jun 28 16:28		1°54'33		10070 0 11 17 52	200m-51152	0011151
max. Earth dist.	10272 Jun 29 00:45		10.73197 AU	conjunction	10278 Sep 11 17:53	28° Mp 51'52	
morning rise	10272 Jul 15 13:20 10272 Oct 27 02:52	16°951'53 24°920'11		minimum elong behind sun begin	10278 Sep 11 17:53	28° Mp 51'52 28° Mp 50'22	0°11'54
retrograde opposition	10272 Oct 27 02:32 10273 Jan 05 09:05	24 \$2011 20°\$57'27	2°16'51	behind sun begin	10278 Sep 11 12:56 10278 Sep 11 22:50	28° My 53'23	
min. Earth dist.	10273 Jan 05 01:26		8.72667 AU	max. Earth dist.	10278 Sep 11 22:30		10.54334 AU
direct	10273 Mar 15 10:31	17° <b>©</b> 37'09	8.72007 AU	max. Earm dist.	10278 Sep 20 23:10	0° <b>⊽</b>	10.54554 AU
evening set	10273 Jun 24 03:31	24°954'35		morning rise	10278 Sep 29 08:42	0 <b>—</b> 1° <b>Ω</b> 01'19	
e venning see	102/5 3411 21 05.51	21 35155		retrograde	10279 Jan 12 08:27	8° <b>≏</b> 44'51	
conjunction	10273 Jul 11 00:02	26° <b>©</b> 57'05	-1°47'14	asc. node	10279 Mar 05 21:35	6° <b>£</b> 35'56	
minimum elong	10273 Jul 11 00:04	26°957'06		opposition	10279 Mar 22 13:30	5° <b>Ω</b> 19'13	0°01'25
max. Earth dist.	10273 Jul 11 09:21		10.71657 AU	min. Earth dist.	10279 Mar 22 07:56	5° <b>Ω</b> 20'19	8.52193 AU
morning rise	10273 Jul 27 23:13	29° <b>©</b> 00'21		direct	10279 May 29 06:45	1° <b>≏</b> 56'49	
C	10273 Aug 05 09:49	$0^{\circ}\Omega$		evening set	10279 Sep 07 11:18	9° <b>Ω</b> 26'45	
retrograde	10273 Nov 08 22:26	6° <b>Ω</b> 30'54		C	•		
opposition	10274 Jan 18 04:02	3° <b>Ω</b> 07'35	-2°05'22	conjunction	10279 Sep 25 01:27	11° <b>≏</b> 36′27	0°13'48
min. Earth dist.	10274 Jan 17 19:37	3° <b>Ω</b> 09′11	8.70685 AU	minimum elong	10279 Sep 25 01:27	11° <b>≏</b> 36′27	0°13'53
	10274 Mar 12 05:51	30° <b>₹</b> 5		behind sun begin	10279 Sep 24 21:48	11° <b>≏</b> 35′20	
direct	10274 Mar 28 00:25	29° <b>5</b> 47'15		behind sun end	10279 Sep 25 05:05	11° <b>≏</b> 37'34	
	10274 Apr 12 14:43	$0^{\circ}\Omega$		max. Earth dist.	10279 Sep 25 07:56		10.50084 AU
evening set	10274 Jul 06 11:21	7° <b>Ω</b> 04'55		morning rise	10279 Oct 12 18:30	13° <b>≏</b> 47'03	
				retrograde	10280 Jan 25 17:37	21° <b>≏</b> 32'56	
conjunction	10274 Jul 23 10:23	9° <b>Ω</b> 08'18		opposition	10280 Apr 03 14:37	18° <b>≏</b> 07'03	0°32'57
minimum elong	10274 Jul 23 10:25	9° <b>Ω</b> 08'18		min. Earth dist.	10280 Apr 03 10:07	18° <b>≏</b> 07'57	8.48011 AU
max. Earth dist.	10274 Jul 23 21:01		10.69297 AU	direct	10280 Jun 10 05:19	14° <b>Ω</b> 43'57	
morning rise	10274 Aug 09 12:19	11°Ω12'33		evening set	10280 Sep 19 21:25	22° <b>≏</b> 18'01	
. 1	10274 Sep 12 20:07	15° <b>Ω</b>			10200 0 + 07 12 46	240 0 20151	0020155
retrograde	10274 Nov 21 20:25	18° <b>Ω</b> 45'32	1040110	conjunction	10280 Oct 07 13:46	24° <b>£</b> 28'51	0°38'55
opposition	10275 Jan 30 23:03	15° <b>Ω</b> 21'38		minimum elong	10280 Oct 07 13:44	24° <b>Ω</b> 28'51	0°39'05
min. Earth dist.	10275 Jan 30 13:51 10275 Feb 04 16:01	15°8 <b>ι</b> 23'24 15°R <b>Ω</b>	8.67923 AU	max. Earth dist.	10280 Oct 07 18:11	24° <u>₽</u> 30'14 26° <u>₽</u> 40'27	10.45991 AU
direct	10275 Feb 04 16:01 10275 Apr 09 12:26	13° <b>κ3</b> ι 12° <b>Ω</b> 01'08		morning rise	10280 Oct 25 08:26 10280 Nov 23 09:07	26° <b>32</b> 40′27 0° <b>M</b>	
uncei	10275 Apr 09 12:26 10275 Jun 08 21:21	12° <b>Ω</b> 01'08		retrograde	10280 Nov 23 09:07 10281 Feb 07 05:33	4°M28'15	
evening set	10275 Jul 18 22:00	15° <b>∂</b> ℓ 19° <b>Ω</b> 19'50		opposition	10281 Feb 07 05:33 10281 Apr 16 17:24	1°M02'15	1°03'08
evening set	10275 Jul 10 22.00	17 061730		min. Earth dist.	10281 Apr 16 17.24 10281 Apr 16 14:46	1°M02'46	8.44070 AU
conjunction	10275 Aug 04 23:55	21° <b>Ω</b> 24'18	-1°19'23	mm. Darm dist.	10281 Apr 10 14:40 10281 Apr 29 23:25	1 11002 40 30°R <b>Ω</b>	5.770/0 AU
minimum elong	10275 Aug 04 23:58	$21^{\circ}\Omega 24'18$		direct	10281 Apr 29 25:25 10281 Jun 23 06:04	27° <b>£</b> 38'19	
max. Earth dist.	10275 Aug 04 25:36 10275 Aug 05 10:46		10.66222 AU	3	10281 Aug 15 00:47	0°M	
morning rise	10275 Aug 05 10:40	23° <b>Ω</b> 29'44		evening set	10281 Oct 03 12:27	5°M16'50	
		. 55-27 . 1					

conjunction minimum elong max. Earth dist. morning rise	10281 Oct 21 06:20 10281 Oct 21 06:18 10281 Oct 21 07:27 10281 Nov 08 02:01 10281 Dec 27 16:52	7°M28'37 7°M28'36 7°M28'58 9°M41'00 15°M	1°02'15 1°02'32 10.42186 AU	conjunction minimum elong max. Earth dist. morning rise	10288 Jan 12 04:35 10288 Jan 12 04:37 10288 Jan 11 18:35 10288 Jan 29 18:23 10288 Feb 05 15:28	26°♂57'41 26°♂57'42 26°♂54'32 29°♂09'37 0°≈	1°46'38 1°47'04 10.35362 AU
retrograde opposition min. Earth dist. direct	10282 Feb 20 17:39 10282 Apr 18 03:46 10282 Apr 29 21:58 10282 Apr 29 22:04 10282 Jul 06 11:21	17°M30'18 15°RM 14°M04'19 14°M04'17 10°M39'34	1°30'21 8.40482 AU	retrograde opposition min. Earth dist. direct evening set	10288 May 10 22:52 10288 Jul 17 04:02 10288 Jul 17 12:11 10288 Sep 23 22:23 10289 Jan 07 09:10	6°≈53'10 3°≈29'38 3°≈28'01 0°≈02'12 7°≈57'10	2°05'18 8.36584 AU
evening set	10282 Sep 18 00:04 10282 Oct 17 07:52	15°M 18°M22'39		conjunction	10289 Jan 25 00:05	10°≈09'11	1°34'00
. ,.	10202 N 04 02 20	200 <b>m</b> 25111	1022122	minimum elong	10289 Jan 25 00:07	10°≈09'11	1°34'22
conjunction minimum elong	10282 Nov 04 02:38 10282 Nov 04 02:36	20°M35'11 20°M35'10	1°22'33 1°22'54	max. Earth dist. morning rise	10289 Jan 24 13:20 10289 Feb 11 12:05	10°≈05'48 12°≈20'19	10.37823 AU
max. Earth dist.	10282 Nov 04 00:10		10.38804 AU	morning rise	10289 Mar 06 01:43	15° <b>≈</b>	
morning rise	10282 Nov 21 22:35	22°M48'06		retrograde	10289 May 24 04:27	20°≈00'27	
	10283 Feb 07 07:24	0° <b>∡</b> ¹		opposition	10289 Jul 30 13:38	16° <b>≈</b> 37'31	1°46'29
retrograde	10283 Mar 06 06:36	0° <b>∡</b> ³38'25		min. Earth dist.	10289 Jul 30 22:01	16° <b>≈</b> 35'51	8.39462 AU
	10283 Apr 02 08:21	30°RM			10289 Aug 20 21:58	15°R <b>≈</b>	
opposition	10283 May 13 04:12	27°M12'37	1°53'05	direct	10289 Oct 07 16:29	13°≈10'14	
min. Earth dist.	10283 May 13 06:47	27°M12'06	8.37433 AU	avanina aat	10289 Nov 23 13:20	15° <b>≈</b>	
direct	10283 Jul 19 19:54 10283 Oct 18 04:05	23°M47'07 0° <b>∡</b> 7		evening set	10290 Jan 21 02:12	21° <b>≈</b> 03'13	
evening set	10283 Oct 31 06:46	1° <b>∡</b> ¹34'32		conjunction	10290 Feb 07 15:22	23°≈14'20	1°16'33
evening sec	10203 000 31 00.10	1 7 3 1 3 2		minimum elong	10290 Feb 07 15:25	23°≈14'21	1°16'52
conjunction	10283 Nov 18 01:56	3° <b>х</b> 47′36	1°38'38	max. Earth dist.	10290 Feb 07 04:53		10.41139 AU
minimum elong	10283 Nov 18 01:54	3° <b>∡</b> '47'36	1°39'03	morning rise	10290 Feb 25 01:22	25° <b>≈</b> 24'31	
max. Earth dist.	10283 Nov 17 20:59	3° <b>х¹</b> 46′03	10.36092 AU		10290 Apr 07 12:03	0° <b>∀</b>	
morning rise	10283 Dec 05 21:29	6° <b>₹</b> 100'49		retrograde	10290 Jun 06 08:35	3° <b>)</b> €01'07	
retrograde	10284 Mar 18 20:53	13° <b>∡</b> 751′29			10290 Aug 08 10:05	30° <b>R</b> ≈	
opposition	10284 May 25 12:04	10° <b>₹</b> 25'58	2°09'59	opposition	10290 Aug 12 22:18	29°≈38'43	1°22'20
min. Earth dist.	10284 May 25 16:13	10° <b>×</b> 25'08	8.35182 AU	min. Earth dist.	10290 Aug 13 05:44	29°≈37'15	8.43105 AU
direct evening set	10284 Aug 01 07:03 10284 Nov 13 07:58	6° <b>₹</b> 59'46 14° <b>₹</b> 50'53		direct	10290 Oct 21 08:21 10290 Dec 29 20:56	26°≈11'49 0° <b>)</b> €	
evening set	10204 1107 13 07.36	14 🗡 50 55		evening set	10290 Bec 29 20:30 10291 Feb 03 14:29	4° <b>)</b> €01'52	
conjunction	10284 Dec 01 03:06	17° <b>∡</b> °04'15	1°49'34	evening see	102)1100 03 11.2)	. ,(0102	
minimum elong	10284 Dec 01 03:05	17° <b>∡</b> ¹04'15	1°50'02	conjunction	10291 Feb 21 01:42	6° <b>)</b> 11′57	0°55'20
max. Earth dist.	10284 Nov 30 20:32	17° <b>∡</b> °02'11	10.34290 AU	minimum elong	10291 Feb 21 01:44	6° <b>)</b> 11′58	0°55'33
morning rise	10284 Dec 18 21:41	19° <b>∡</b> 17'30		max. Earth dist.	10291 Feb 20 16:49	6° <b>₩</b> 09'10	10.45126 AU
retrograde	10285 Apr 01 10:40	27° <b>∡</b> °07'38		morning rise	10291 Mar 10 09:29	8° <b>∺</b> 21′02	
opposition	10285 Jun 07 21:12	23° <b>∡</b> ¹42'30	2°20'03	retrograde	10291 Jun 19 11:40	15° <b>)</b> € 54'11	
min. Earth dist.	10285 Jun 08 02:20	23° <b>х</b> 41'28	8.33913 AU	opposition	10291 Aug 26 05:39	12° <b>)</b> (32′16	0°54'14
direct evening set	10285 Aug 14 21:31	20° <b>₹</b> 15'46 28° <b>₹</b> 09'39		min. Earth dist. direct	10291 Aug 26 11:50 10291 Nov 03 20:35	12° <b>)</b> (31'04 9° <b>)</b> (05'56	8.47321 AU
evening set	10285 Nov 27 10:21 10285 Dec 12 03:51	28 x・0939		evening set	10291 Nov 03 20:33 10292 Feb 16 22:10	9 <del>X</del> 03 36 16° <del>X</del> 52'24	
	10203 Dec 12 03.31	<b>0 0</b>		evening set	102)2100 10 22.10	10 /(32 24	
conjunction	10285 Dec 15 04:59	0° <b>පි</b> 23'02	1°54'41	conjunction	10292 Mar 05 07:09	19° <b>)</b> €01'20	0°31'31
minimum elong	10285 Dec 15 04:59	0° <b>る</b> 23'02		minimum elong	10292 Mar 05 07:10	19° <b>∺</b> 01′20	
max. Earth dist.	10285 Dec 14 21:19		10.33538 AU	max. Earth dist.	10292 Mar 04 23:57		10.49575 AU
morning rise	10286 Jan 01 22:08	2° <b>る</b> 36'03		morning rise	10292 Mar 22 12:36	21° <b>)</b> (09'15	
retrograde	10286 Apr 14 23:55	10°る24'46 7°る00'06	2°22'38	retrograde	10292 Jul 01 10:41	28° <b>)</b> (39'10 25° <b>)</b> (17'44	0°23'44
opposition min. Earth dist.	10286 Jun 21 07:10 10286 Jun 21 13:13	6° <b>る</b> 58'53	8.33721 AU	opposition min. Earth dist.	10292 Sep 07 11:18 10292 Sep 07 16:31	25° <del>X</del> 1744 25° <del>X</del> 16'44	8.51898 AU
direct	10286 Aug 28 13:11	3° <b>る</b> 32'58	6.33721 AU	direct	10292 Sep 07 10:31 10292 Nov 16 06:41	21° <b>H</b> 52'06	8.51898 AU
evening set	10286 Dec 11 12:15	11° <b>る</b> 28'28		evening set	10293 Mar 01 01:08	29° <b>)</b> 34'40	
<i>3</i> - 11				<i>3</i>	10293 Mar 04 12:16	0°Υ	
conjunction	10286 Dec 29 05:57	13° <b>る</b> 41'37	1°53'41				
minimum elong	10286 Dec 29 05:58	13° <b>る</b> 41'37	1°54'09	conjunction	10293 Mar 18 07:32	1° <b>Y</b> '42'19	0°06'25
max. Earth dist.	10286 Dec 28 21:08		10.33901 AU	minimum elong	10293 Mar 18 07:32	1° <b>Y</b> '42'19	0°06'27
morning rise	10287 Jan 15 21:27	15°る54'11		behind sun begin	10293 Mar 18 00:50	1° <b>Υ</b> 40'16	
retrograde	10287 Apr 28 12:31	23° <b>る</b> 40'39	2017/27	behind sun end	10293 Mar 18 14:14	1° <b>Υ</b> 44'22	10.54050 ***
opposition	10287 Jul 04 17:41	20°る16'33	2°17'36	max. Earth dist.	10293 Mar 18 01:41	1°'Y'40'32 3° <b>Y</b> 49'03	10.54259 AU
min. Earth dist. direct	10287 Jul 05 00:53 10287 Sep 11 05:05	20°る15'06 16°る49'10	8.34630 AU	morning rise desc. node	10293 Apr 04 10:40 10293 Jun 21 17:10	3°γ49'03 10° <b>Υ</b> 49'16	
evening set	10287 Dec 25 12:08	10 <b>3</b> 4910 24° <b>3</b> 44'59		retrograde	10293 Jul 14 07:20	10 γ 49 10 11° <b>Υ</b> 16'12	
	12.00 20 12.00	=: •		opposition	10293 Sep 20 15:33	7° <b>Υ</b> 55'12	-0°07'35

min. Earth dist.	10202 San 20 10:59	7° <b>Ƴ</b> 54'21	8.56609 AU	ratrograda	10200 San 27 09:24	24° <b>∏</b> 52'12	
direct	10293 Sep 20 19:58 10293 Nov 29 14:45	4° <b>Υ</b> 30'23	8.30009 AU	retrograde opposition	10299 Sep 27 08:24 10299 Dec 06 08:44	24 <b>H</b> 32 12 21° <b>H</b> 31'19	2018124
evening set	10293 Nov 29 14.43 10294 Mar 13 23:20	12° <b>Υ</b> 08'51		min. Earth dist.	10299 Dec 06 03:23	21° <b>II</b> 31'19	
evening set	10294 Ividi 13 23.20	12 1 00 31		direct	10300 Feb 14 00:54	18° <b>Ⅱ</b> 11'06	6.70137 AU
conjunction	10294 Mar 31 02:57	14° <b>Ƴ</b> 15'11	-0°18'53	evening set	10300 Nay 26 13:09	25° <b>I</b> I29'59	
minimum elong	10294 Mar 31 02:56	14° <b>Υ</b> 15'11	0°18'57	evening set	10300 Way 20 13.07	23 112737	
max. Earth dist.	10294 Mar 30 22:11		10.58948 AU	conjunction	10300 Jun 12 06:42	27° <b>I</b> I31'20	-1°54'47
morning rise	10294 Apr 17 03:53	16° <b>Y</b> ′20'44	10.000 10110	minimum elong	10300 Jun 12 06:41	27° <b>I</b> [31'20	
retrograde	10294 Jul 27 02:13	23° <b>Y</b> ′45'43		max. Earth dist.	10300 Jun 12 13:37		10.76346 AU
opposition	10294 Oct 03 18:05	20° <b>Y</b> ′25'03	-0°38'12	morning rise	10300 Jun 29 01:21	29° <b>Ⅱ</b> 33'00	
min. Earth dist.	10294 Oct 03 21:03	20° <b>Y</b> ′24′29	8.61227 AU		10300 Jul 02 20:36	0ಂತಾ	
direct	10294 Dec 12 19:21	17° <b>Y</b> ′01′07		retrograde	10300 Oct 10 00:01	6°957'36	
evening set	10295 Mar 26 17:14	24° <b>Y</b> 35'30		opposition	10300 Dec 19 03:41	3° <b>©</b> 36'19	-2°22'13
· ·				min. Earth dist.	10300 Dec 18 20:43	3° <b>©</b> 37'38	8.76557 AU
conjunction	10295 Apr 12 18:12	26° <b>Ƴ</b> 40'34	-0°42'58	direct	10301 Feb 26 14:50	0°9516'28	
minimum elong	10295 Apr 12 18:11	26° <b>Ƴ</b> 40'33	0°43'09	evening set	10301 Jun 07 17:38	7° <b>©</b> 33'49	
max. Earth dist.	10295 Apr 12 15:23	26° <b>Ƴ</b> 39'42	10.63421 AU				
morning rise	10295 Apr 29 17:03	28° <b>Y</b> '45'00		conjunction	10301 Jun 24 11:51	9° <b>5</b> 35'16	-1°55'21
	10295 May 10 06:12	$0^{\circ}$ 8		minimum elong	10301 Jun 24 11:52	9° <b>5</b> 35'16	1°55'49
retrograde	10295 Aug 08 18:28	6° <b>8</b> 08'26		max. Earth dist.	10301 Jun 24 20:41	9° <b>©</b> 37'57	10.76210 AU
opposition	10295 Oct 16 18:48	2° <b>8</b> 47'57	-1°06'43	morning rise	10301 Jul 11 07:38	11° <b>©</b> 37'13	
min. Earth dist.	10295 Oct 16 19:36	2° <b>8</b> 47'48	8.65532 AU	retrograde	10301 Oct 22 16:54	19° <b>©</b> 03'34	
	10295 Nov 29 02:55	30° <b>₹Ƴ</b>		opposition	10301 Dec 31 22:12	15° <b>©</b> 41'44	-2°19'45
direct	10295 Dec 25 21:14	29° <b>Y</b> ′24'55		min. Earth dist.	10301 Dec 31 14:08	15° <b>©</b> 43'16	8.75874 AU
	10296 Jan 21 08:02	$0^{\circ}$ 8		direct	10302 Mar 11 03:30	12° <b>5</b> 22'04	
evening set	10296 Apr 07 07:16	6° <b>8</b> 55'25		evening set	10302 Jun 19 22:36	19° <b>©</b> 38'37	
	10206 4 24 05 52	00 4 50110	1004154		10202 1 1 06 10 11	210510122	1050140
conjunction	10296 Apr 24 05:53	8° <b>8</b> 59'19		conjunction	10302 Jul 06 18:11	21°9540'32	
minimum elong	10296 Apr 24 05:51	8° <b>8</b> 59'19		minimum elong	10302 Jul 06 18:12	21°540'32	
max. Earth dist.	10296 Apr 24 05:44	_	10.67465 AU	max. Earth dist.	10302 Jul 07 03:23		10.74974 AU
morning rise	10296 May 11 02:45	11° <b>8</b> 02'45		morning rise	10302 Jul 23 15:57	23°5643'06	
	10296 Jun 15 23:41	15° <b>8</b> 18° <b>8</b> 25'18			10302 Sep 27 05:06	0°N	
retrograde	10296 Aug 20 11:06	15° <b>8</b> 04'53	1921157	retrograde	10302 Nov 04 12:22	1° <b>Ω</b> 11'35	
opposition min. Earth dist.	10296 Oct 28 18:07 10296 Oct 28 16:36	_	8.69320 AU	opposition	10302 Dec 13 10:44 10303 Jan 13 16:36	30°Rூ 27°♀49'12	2011/04
min. Earth dist.	10296 Oct 28 16.36 10296 Oct 29 19:49	15°R <b>B</b>	8.09320 AU	min. Earth dist.	10303 Jan 13 16.36 10303 Jan 13 08:39		8.74065 AU
direct	10290 Oct 29 19.49 10297 Jan 06 20:30	13 KO 11° <b>8</b> 42'44		direct	10303 Jan 13 08.39 10303 Mar 23 14:54	21°93042 24°929'30	6.74003 AU
direct	10297 Mar 12 14:25	15°8		direct	10303 Jun 16 23:13	0°Ω	
evening set	10297 Apr 19 18:00	19° <b>8</b> 09'37		evening set	10303 Jul 02 05:10	1°Ω46'07	
evening sec	102) / 11p1 15 10.00	1) 00) 31		evening sec	10303 341 02 03.10	1 00 10 07	
conjunction	10297 May 06 14:29	21° <b>8</b> 12'31	-1°23'43	conjunction	10303 Jul 19 02:45	3° <b>Ω</b> 48'47	-1°41'17
minimum elong	10297 May 06 14:27	21° <b>8</b> 12'30	1°24'04	minimum elong	10303 Jul 19 02:47	3° <b>Ω</b> 48'48	1°41'43
max. Earth dist.	10297 May 06 17:01	21° <b>8</b> 13'18	10.70901 AU	max. Earth dist.	10303 Jul 19 11:20	3° <b>Ω</b> 51′24	10.72655 AU
morning rise	10297 May 23 09:45	23° <b>8</b> 15'06		morning rise	10303 Aug 05 03:14	5° <b>Ω</b> 52'18	
	10297 Aug 05 23:03	$\Pi$ °0		retrograde	10303 Nov 17 07:45	13° <b>Ω</b> 23′17	
retrograde	10297 Sep 02 03:24	0° <b>Ⅲ</b> 37′22		opposition	10304 Jan 26 11:14	10° <b>Ω</b> 00′16	-1°56'29
	10297 Sep 29 15:46	30° <b>₹</b> 8		min. Earth dist.	10304 Jan 26 03:55		8.71231 AU
opposition	10297 Nov 10 16:10	27° <b>8</b> 16'56		direct	10304 Apr 04 02:41	6° <b>Ω</b> 40'22	
min. Earth dist.	10297 Nov 10 13:01		8.72433 AU	evening set	10304 Jul 13 14:05	13° <b>Ω</b> 57'51	
direct	10298 Jan 19 15:24	23° <b>8</b> 55'34			10304 Jul 22 04:21	15° <b>Ω</b>	
	10298 Apr 20 19:43	0°Щ					
evening set	10298 May 02 02:10	1° <b>Ⅱ</b> 19'15		conjunction	10304 Jul 30 14:21	16° <b>Ω</b> 01'34	
		_		minimum elong	10304 Jul 30 14:23	16° <b>Ω</b> 01'34	
conjunction	10298 May 18 20:56	3° <b>Ⅲ</b> 21′21		max. Earth dist.	10304 Jul 30 22:40		10.69420 AU
minimum elong	10298 May 18 20:54	3° <b>∐</b> 21'21		morning rise	10304 Aug 16 17:58	18° <b>Ω</b> 06'14	
max. Earth dist.	10298 May 19 00:56		10.73599 AU	retrograde	10304 Nov 29 04:54	25° <b>Ω</b> 39'59	
morning rise	10298 Jun 04 15:19	5° <b>Ⅱ</b> 23'22		opposition	10305 Feb 07 06:33	22°Ω16'16	
retrograde	10298 Sep 14 17:43	12° <b>Ⅱ</b> 45'54	2000120	min. Earth dist.	10305 Feb 06 23:27		8.67578 AU
opposition	10298 Nov 23 12:58	9° <b>Ⅱ</b> 25'18		direct	10305 Apr 16 16:53	18° <b>Ω</b> 55'58	
min. Earth dist.	10298 Nov 23 08:48		8.74751 AU	evening set	10305 Jul 26 02:05	26° <b>Ω</b> 15'01	
direct		6° <b>Ⅱ</b> 04'35					
	10299 Feb 01 08:17				10205 4 12 05 55	200 020100	1000157
evening set	10299 Feb 01 08:17 10299 May 14 08:17	13° <b>Ⅱ</b> 25'36		conjunction	10305 Aug 12 05:35	28° <b>Ω</b> 20'00	
C	10299 May 14 08:17	13° <b>Ⅱ</b> 25'36	1940/00	minimum elong	10305 Aug 12 05:37	28° <b>Ω</b> 20'01	1°09'15
conjunction	10299 May 14 08:17 10299 May 31 02:01	13° <b>Д</b> 25'36 15° <b>Д</b> 27'10			10305 Aug 12 05:37 10305 Aug 12 14:22	28° <b>Ω</b> 20'01 28° <b>Ω</b> 22'42	
conjunction minimum elong	10299 May 14 08:17 10299 May 31 02:01 10299 May 31 02:00	13° <b>Д</b> 25'36 15° <b>Д</b> 27'10 15° <b>Д</b> 27'10	1°49'37	minimum elong max. Earth dist.	10305 Aug 12 05:37 10305 Aug 12 14:22 10305 Aug 25 21:54	28°Ω20'01 28°Ω22'42 0° Mp	1°09'15
conjunction	10299 May 14 08:17 10299 May 31 02:01	13° <b>Д</b> 25'36 15° <b>Д</b> 27'10 15° <b>Д</b> 27'10		minimum elong	10305 Aug 12 05:37 10305 Aug 12 14:22	28° <b>Ω</b> 20'01 28° <b>Ω</b> 22'42	1°09'15

*.*	10206 5 1 20 02 10	403 2011 2	1011156		10212 5 1 20 00 20	2.10M =015.6	
opposition	10306 Feb 20 02:40	4° m/38'12		retrograde	10312 Feb 29 08:30	24°M50'56	
min. Earth dist.	10306 Feb 19 19:29		8.63310 AU	opposition	10312 May 07 10:08	21°M24'23	1°43'18
direct	10306 Apr 29 07:22	1° Mp 17'21		min. Earth dist.	10312 May 07 10:36	21°M24'17	8.36955 AU
evening set	10306 Aug 07 18:24	8° <b>m</b> 38'44		direct	10312 Jul 14 01:19	17°M58'39	
	10006 1 05 01 10	100% 45106	00.4510.4	evening set	10312 Oct 25 04:25	25°M44'39	
conjunction	10306 Aug 25 01:13	10° Mp 45'06			1001031 11 00 11	250M 55144	1021110
minimum elong	10306 Aug 25 01:15	10° <b>m</b> 45'06	0°47'36	conjunction	10312 Nov 11 23:41	27°M57'44	1°31'49
max. Earth dist.	10306 Aug 25 09:47	-	10.60995 AU	minimum elong	10312 Nov 11 23:38	27°M57'43	1°32'12
morning rise	10306 Sep 11 11:25	12° <b>m</b> 52'30		max. Earth dist.	10312 Nov 11 21:24		10.35488 AU
retrograde	10306 Dec 25 09:37	20° <b>m</b> 32'01			10312 Nov 28 07:32	0° <b>∡</b> ¹	
opposition	10307 Mar 04 23:44	17° <b>m</b> 06'55		morning rise	10312 Nov 29 19:26	0° <b>∡</b> 111'02	
min. Earth dist.	10307 Mar 04 17:02		8.58635 AU	retrograde	10313 Mar 13 23:48	8° <b>∡</b> ¹02'17	
direct	10307 May 11 22:24	13° <b>m</b> 45'22		opposition	10313 May 20 17:24	4° <b>∡</b> ³35'59	2°03'03
evening set	10307 Aug 20 15:24	21° <b>m</b> 09'50		min. Earth dist.	10313 May 20 19:47	4° <b>∡</b> ′35′30	8.34437 AU
				direct	10313 Jul 27 09:53	1° <b>∡</b> ′09'32	
conjunction	10307 Sep 07 01:21	23° <b>m</b> 17'37	-0°23'25	evening set	10313 Nov 08 05:00	8° <b>₹</b> 59'32	
minimum elong	10307 Sep 07 01:22	23° Mp 17'37	0°23'30				
max. Earth dist.	10307 Sep 07 08:32	23° <b>m</b> 19'49	10.56219 AU	conjunction	10313 Nov 26 00:17	11° <b>∡</b> 12'59	1°45'14
morning rise	10307 Sep 24 14:41	25° Mp 26'25		minimum elong	10313 Nov 26 00:15	11° <b>∡</b> 12'58	1°45'40
	10307 Nov 05 12:37	0∘ <b>亚</b>		max. Earth dist.	10313 Nov 25 19:22	11° <b>х</b> 11'26	10.33433 AU
retrograde	10308 Jan 07 14:39	3° <b>₤</b> 08'46		morning rise	10313 Dec 13 19:23	13° <b>∡</b> ¹26′26	
	10308 Mar 13 08:19	30°R, Mp		retrograde	10314 Mar 27 14:11	21° <b>∡</b> 17′26	
opposition	10308 Mar 16 22:26	29° <b>m</b> 43'05	-0°13'07	opposition	10314 Jun 03 02:15	17° <b>∡</b> ¹51'35	2°16'21
min. Earth dist.	10308 Mar 16 17:05	29° <b>m</b> 44'08	8.53778 AU	min. Earth dist.	10314 Jun 03 06:36	17° <b>∡</b> 750'42	8.32933 AU
direct	10308 May 23 17:02	26° Mp 20'46		direct	10314 Aug 09 23:26	14° <b>∡</b> ¹24'35	
	10308 Jul 29 15:04	0∘ <b>⊽</b>		evening set	10314 Nov 22 07:09	22° <b>х</b> 17'47	
asc. node	10308 Aug 21 01:44	2° <b>ഫ</b> 25'59					
evening set	10308 Sep 01 17:24	3° <b>≏</b> 48'55		conjunction	10314 Dec 10 01:58	24° <b>∡</b> ³31'19	1°53'04
Č	1			minimum elong	10314 Dec 10 01:57	24° <b>∡</b> ³31'19	1°53'32
conjunction	10308 Sep 19 06:13	5° <b>£</b> 58'05	0°02'01	max. Earth dist.	10314 Dec 09 18:50	24° <b>₹</b> ¹29'04	10.32454 AU
minimum elong	10308 Sep 19 06:12	5° <b>£</b> 58'04	0°02'02	morning rise	10314 Dec 27 19:57	26° <b>∡</b> ¹44'38	
behind sun begin	10308 Sep 18 22:59	5° <b>£</b> 55'52		. 8	10315 Jan 24 17:20	ලංප	
behind sun end	10308 Sep 19 13:25	6° <b>£</b> 00'17		retrograde	10315 Apr 10 03:04	4° <b>ට</b> 34'35	
max. Earth dist.	10308 Sep 19 11:12	5° <b>£</b> 59'35	10.51364 AU	opposition	10315 Jun 16 12:12	1° <b>る</b> 09'19	2°22'24
morning rise	10308 Oct 06 22:19	8° <b>ഫ</b> 08'13		min. Earth dist.	10315 Jun 16 18:00	1°る08'09	8.32535 AU
retrograde	10309 Jan 19 22:29	15° <b>£</b> 53'14			10315 Jul 01 03:23	30°R. <b>✓</b>	
opposition	10309 Mar 29 22:48	12° <b>£</b> 27'06	0°18'28	direct	10315 Aug 23 15:16	27° <b>∡</b> ¹42'00	
min. Earth dist.	10309 Mar 29 19:20	12° <b>£</b> 27'47	8.48965 AU	4.1.000	10315 Oct 14 21:43	0°ਰ	
direct	10309 Jun 05 14:08	9° <b>ഫ</b> 03'55	0.10705710	evening set	10315 Dec 06 09:35	。3 5° <b>る</b> 37'19	
evening set	10309 Sep 15 00:51	16° <b>£</b> 36'17		evening sec	10313 Bec 00 07.55	3 37 17	
evening sec	1030) Бер 13 00.31	10 - 30 17		conjunction	10315 Dec 24 03:41	7° <b>る</b> 50'44	1°54'52
conjunction	10309 Oct 02 16:10	18° <b>≏</b> 46'43	0°27'28	minimum elong	10315 Dec 24 03:41	7° <b>る</b> 50'44	1°55'21
minimum elong	10309 Oct 02 16:09	18° <b>≏</b> 46'43	0°27'35	max. Earth dist.	10315 Dec 23 19:14		10.32624 AU
max. Earth dist.	10309 Oct 02 19:17	18° <b>-</b> 47'41		morning rise	10316 Jan 10 20:12	10° <b>ට</b> 03'41	10.52021110
morning rise	10309 Oct 20 10:23	20° <b>♀</b> 58'02	10.10017110	retrograde	10316 Apr 22 16:00	17° <b>る</b> 51'44	
retrograde	10310 Feb 02 08:11	28° <b>-</b> 45'22		opposition	10316 Jun 28 22:44	14° <b>る</b> 27'09	2°20'48
opposition	10310 Apr 12 00:41	25° <b>⊆</b> 18'57	0°49'29	min. Earth dist.	10316 Jun 29 05:04	14° <b>る</b> 25'53	8.33276 AU
min. Earth dist.	10310 Apr 11 22:48	25° <b>⊆</b> 19'20	8.44416 AU	direct	10316 Sep 05 07:53	10°る59'42	0.55270710
direct	10310 Apr 11 22:48 10310 Jun 18 14:31	21° <b>⊆</b> 54'52	510710	evening set	10316 Dec 19 10:57	18°る55'57	
evening set	10310 Sep 28 13:32	29° <b>₽</b> 31'49		evening sec	10310 Bec 17 10.57	10 00007	
evening set	10310 Oct 02 09:39	0°M		conjunction	10317 Jan 06 04:06	21°පි09'00	1°50'31
	10310 Oct 02 07.37	O IIG		minimum elong	10317 Jan 06 04:07	21° <b>ろ</b> 09'01	1°50'59
conjunction	10310 Oct 16 06:51	1°ML43'22	0°51'47	max. Earth dist.	10317 Jan 05 19:23		10.33931 AU
minimum elong	10310 Oct 16 06:49	1°ML43'21	0°52'01	morning rise	10317 Jan 23 18:54	23° <b>る</b> 21'23	10.55751 AC
max. Earth dist.			10.42286 AU	morning rise	10317 Jan 23 18:34 10317 Mar 31 19:08	23 <b>6</b> 21 23 0° <b>≈</b>	
	10310 Oct 16 08:22		10.42280 AU	ratra ara da			
morning rise	10310 Nov 03 02:19	3°M55'36		retrograde	10317 May 06 04:03 10317 Jun 10 23:45	1°≈06'47 30°Rる	
retrograde	10311 Feb 15 18:55	11°M44'52	1010117	annacition		30°Rる 27° <b>る</b> 42'57	2011/42
opposition	10311 Apr 25 04:29	8°M 18'18	1°18'17	opposition	10317 Jul 12 09:33		2°11'42
min. Earth dist.	10311 Apr 25 03:45	8°M18'27	8.40344 AU	min. Earth dist.	10317 Jul 12 16:02	27° <b>3</b> 41'39	8.35104 AU
direct	10311 Jul 01 19:04	4°M53'22		direct	10317 Sep 19 01:01	24° <b>る</b> 15'35	
evening set	10311 Oct 12 06:53	12°M34'57			10317 Dec 15 01:04	0°≈	
	10211 0 : 22 21 21	1.40W 4====	1012120	evening set	10318 Jan 02 10:01	2° <b>≈</b> 11'29	
conjunction	10311 Oct 30 01:30	14°M47'23	1°13'39		10010 * 00 01 5	40 22:	104040
minimum elong	10311 Oct 30 01:28	14° <b>M</b> 47'22	1°13'58	conjunction	10318 Jan 20 01:50	4° <b>≈</b> 23'56	1°40'19
max. Earth dist.							
man. Earth dist.	10311 Oct 30 01:31	14° <b>M</b> 47'23	10.38497 AU	minimum elong	10318 Jan 20 01:53	4° <b>≈</b> 23'57	1°40'44
morning rise						4° <b>≈</b> 23'57	

	1001034 10 10 17	140 15144			10004 4 04 10 00	2200020102	
retrograde	10318 May 19 13:17	14° <b>≈</b> 17'44		morning rise	10324 Apr 24 12:28	23° <b>Y</b> '30'02	
opposition	10318 Jul 25 20:07	10° <b>≈</b> 54'40	1°55'41		10324 Jul 01 23:57	$9^{\circ}$ 8	
min. Earth dist.	10318 Jul 26 02:47	10° <b>≈</b> 53′20	8.37920 AU	retrograde	10324 Aug 03 14:19	0° <b>8</b> 54'42	
direct	10318 Oct 02 18:27	7° <b>≈</b> 27'33			10324 Sep 05 19:13	30° <b>ŖƳ</b>	
	10319 Jan 13 06:02	15° <b>≈</b>		opposition	10324 Oct 11 08:50	27° <b>Y</b> 34'26	-0°54'22
evening set	10319 Jan 16 05:39	15° <b>≈</b> 21'55		min. Earth dist.	10324 Oct 11 11:34		
ovening sec	10317 0411 10 00.07	10 10 21 00		direct	10324 Dec 20 09:22	24° <b>Υ</b> 11'14	0.05252110
:	10210 E-L 02 10.40	17022122	1924155	uncci		0°8	
conjunction	10319 Feb 02 19:48	17°≈33'33	1°24'55		10325 Mar 19 07:45		
minimum elong	10319 Feb 02 19:51	17° <b>≈</b> 33'33	1°25'16	evening set	10325 Apr 03 03:09	1° <b>8</b> 44'13	
max. Earth dist.	10319 Feb 02 11:13	17° <b>≈</b> 30'51	10.39582 AU				
morning rise	10319 Feb 20 06:37	19° <b>≈</b> 44'13		conjunction	10325 Apr 20 02:51	3° <b>8</b> 48'48	-0°55'29
retrograde	10319 Jun 01 20:20	27° <b>≈</b> 22'50		minimum elong	10325 Apr 20 02:49	3° <b>8</b> 48'47	0°55'43
opposition	10319 Aug 08 05:56	24° <b>≈</b> 00′29	1°33'45	max. Earth dist.	10325 Apr 20 00:02	3° <b>8</b> 47'56	10.65014 AU
min. Earth dist.	10319 Aug 08 12:59	23°≈59'06	8.41575 AU	morning rise	10325 May 07 00:34	5° <b>8</b> 52'49	
direct	10319 Oct 16 10:27	20° <b>≈</b> 33'46		retrograde	10325 Aug 16 07:27	13° <b>8</b> 16'31	
evening set	10320 Jan 29 20:55	28°≈25'32		opposition	10325 Aug 10 07:27	9° <b>8</b> 56'14	1°21'15
evening set						9° <b>8</b> 55'58	
	10320 Feb 11 13:35	0° <b>)</b> €		min. Earth dist.	10325 Oct 24 11:17	_	8.66715 AU
				direct	10326 Jan 02 11:05	6° <b>8</b> 33'43	
conjunction	10320 Feb 16 09:06	0° <b>∺</b> 36′09	1°05'15	evening set	10326 Apr 15 16:08	14° <b>8</b> 03'08	
minimum elong	10320 Feb 16 09:08	0° <b>)</b> 36′10	1°05'31		10326 Apr 23 11:55	15° <b>8</b>	
max. Earth dist.	10320 Feb 16 00:15	0° <b>)</b> 33′23	10.43606 AU				
morning rise	10320 Mar 04 17:54	2° <b>){</b> 45'47		conjunction	10326 May 02 13:30	16° <b>8</b> 06'41	-1°15'50
retrograde	10320 Jun 14 00:03	10° <b>)</b> 20'43		minimum elong	10326 May 02 13:28	16° <b>8</b> 06'40	
-		6° <b>X</b> 59'01	1°07'14	max. Earth dist.	,	_	10.68184 AU
opposition	10320 Aug 20 14:30				10326 May 02 12:23	_	10.08184 AU
min. Earth dist.	10320 Aug 20 21:36	6° <b>)</b> 57'37	8.45836 AU	morning rise	10326 May 19 09:39	18° <b>8</b> 09'51	
direct	10320 Oct 29 01:09	3° <b>)</b> 32′50		retrograde	10326 Aug 28 23:23	25° <b>8</b> 33'09	
evening set	10321 Feb 11 07:33	11° <b>)</b> €21'13		opposition	10326 Nov 06 09:21	22° <b>8</b> 12'41	-1°44'14
				min. Earth dist.	10326 Nov 06 08:54	22° <b>8</b> 12'46	8.69598 AU
conjunction	10321 Feb 28 17:27	13° <b>)</b> 30′40	0°42'26	direct	10327 Jan 15 09:18	18° <b>8</b> 50'47	
minimum elong	10321 Feb 28 17:28	13° <b>)</b> 30'41	0°42'37	evening set	10327 Apr 28 02:11	26° <b>8</b> 16'56	
max. Earth dist.	10321 Feb 28 08:45	13° <b>¥</b> 27'58	10.48088 AU	evening sec	1002, 11p1 20 02.11	20 01000	
	10321 Mar 18 00:05	15° <b>X</b> 39'09	10.40000 AC	agnismation	10227 May 14 21:47	28° <b>8</b> 19'38	1022127
morning rise				conjunction	10327 May 14 21:47	_	
retrograde	10321 Jun 26 23:34	23° <b>¥</b> 10′37		minimum elong	10327 May 14 21:44	28° <b>8</b> 19'37	
opposition	10321 Sep 02 21:25	19° <b>) √</b> 49′27	0°37'36	max. Earth dist.	10327 May 14 23:16	_	10.70689 AU
min. Earth dist.	10321 Sep 03 03:47	19° <b>) (</b> 48′12	8.50406 AU		10327 May 28 15:01	$\Pi$ $^{\circ}0$	
direct	10321 Nov 11 14:47	16° <b>)</b> €23'54		morning rise	10327 May 31 16:43	0° <b>Ⅲ</b> 22′10	
evening set	10322 Feb 24 13:08	24° <b>)</b> €08'28		retrograde	10327 Sep 10 14:31	7° <b>Ⅱ</b> 45'36	
· ·				opposition	10327 Nov 19 07:18	4° <b>∏</b> 24'47	-2°02'21
conjunction	10322 Mar 13 20:38	26° <b>)</b> 16'40	0°17'44	min. Earth dist.	10327 Nov 19 04:24		8.71758 AU
,			0°17'49			1° <b>П</b> 03'25	6.71736 AU
minimum elong	10322 Mar 13 20:39	26° <b>)</b> 16'41		direct	10328 Jan 28 05:18		
max. Earth dist.	10322 Mar 13 13:02		10.52706 AU	evening set	10328 May 09 09:55	8° <b>Ⅱ</b> 26'46	
morning rise	10322 Mar 31 00:58	28° <b>¥</b> 23'57					
	10322 Apr 13 11:56	$0$ ° $\Upsilon$		conjunction	10328 May 26 04:18	10° <b>Ⅱ</b> 28'51	-1°45'10
retrograde	10322 Jul 09 22:18	5° <b>Y</b> 52'30		minimum elong	10328 May 26 04:17	10° <b>Ⅲ</b> 28'51	1°45'37
opposition	10322 Sep 16 02:45	2° <b>Y</b> 31'44	0°06'27	max. Earth dist.	10328 May 26 08:33	10° <b>Ⅱ</b> 30′09	10.72423 AU
min. Earth dist.	10322 Sep 16 07:49	2° <b>Y</b> '30'46	8.54963 AU	morning rise	10328 Jun 11 22:34	12° <b>Ⅲ</b> 30′57	
	10322 Oct 23 01:15	30°R <b>)</b> €		retrograde	10328 Sep 22 07:31	19° <b>∏</b> 55'05	
direct	10322 Nov 25 00:43	29°\06'58		opposition	10328 Dec 01 04:21	16° <b>∏</b> 33'51	2014/55
desc. node	10322 Dec 02 03:58	29° <b>)</b> €09'34		min. Earth dist.	10328 Nov 30 23:36		8.73106 AU
	10322 Dec 27 13:12	0° <b>Υ</b>		direct	10329 Feb 08 22:49	13° <b>Ⅱ</b> 12'54	
evening set	10323 Mar 09 13:50	6° <b>Ƴ</b> 47'33		evening set	10329 May 21 15:58	20° <b>Ⅱ</b> 33'54	
conjunction	10323 Mar 26 18:50	8° <b>Y</b> 54'32	-0°07'41	conjunction	10329 Jun 07 09:43	22° <b>Ⅲ</b> 35'41	-1°52'59
minimum elong	10323 Mar 26 18:50	8° <b>Y</b> 54'32	0°07'43	minimum elong	10329 Jun 07 09:42	22° <b>∏</b> 35'40	1°53'27
behind sun begin	10323 Mar 26 12:25	8° <b>Y</b> ′52'34		max. Earth dist.	10329 Jun 07 15:43		10.73323 AU
behind sun end	10323 Mar 27 01:15	8°Υ56'30		morning rise	10329 Jun 24 04:08	24° <b>I</b> 37'40	-0.,5525710
			10.57166 ATT	morning rise			
max. Earth dist.	10323 Mar 26 13:06		10.57166 AU		10329 Aug 15 13:07	0.20 0.20	
morning rise	10323 Apr 12 20:47	11° <b>Υ</b> 00'39		retrograde	10329 Oct 04 23:43	2°9502'57	
retrograde	10323 Jul 22 19:45	18° <b>Y</b> 26′57			10329 Nov 26 05:17	30°RⅡ	
opposition	10323 Sep 29 06:34	15° <b>Y</b> 06'30	-0°24'42	opposition	10329 Dec 14 00:36	28° <b>∏</b> 41'14	-2°21'27
min. Earth dist.	10323 Sep 29 10:16	15° <b>Y</b> ′05'47	8.59278 AU	min. Earth dist.	10329 Dec 13 18:47	28° <b>∏</b> 42'21	8.73591 AU
direct	10323 Dec 08 06:14	11° <b>Y</b> '42'32		direct	10330 Feb 21 12:39	25° <b>Ⅱ</b> 20'35	
evening set	10324 Mar 21 10:26	19° <b>Υ</b> 19'15			10330 May 10 11:39	0°9	
Stelling Set	1002   Ividi 21 10.20	17 1 17 17		evening set	10330 Jun 02 21:21	2° <b>©</b> 39'52	
	10224 4 07 12 40	21° <b>Y</b> °25'00	0022126	evening set	10550 Juli 02 21.21	کر <b>ورد</b> ک	
conjunction	10324 Apr 07 12:48				10000 * 15 15	40	1055
minimum elong	10324 Apr 07 12:47	21°Υ25'00		conjunction	10330 Jun 19 15:14	4°5641'37	
max. Earth dist.	10324 Apr 07 08:45	21° <b>'Y'</b> 23'45	10.61302 AU	minimum elong	10330 Jun 19 15:14	4° <b>5</b> 31'37	1°56'14

4:4	10242 I-1 22 06-41	250M 50110			10240 E-L 10 01.12	25922117	1012150
direct	10342 Jul 22 06:41	25°M59'10		conjunction	10349 Feb 10 01:13	25°≈23'17	
avanina aat	10342 Sep 30 16:57 10342 Nov 02 18:44	0° <b>ᡘ</b> ¹ 3° <b>ᡘ</b> ¹46'53		minimum elong max. Earth dist.	10349 Feb 10 01:15 10349 Feb 09 15:26	25°≈23'17	1°14'16 10.41821 AU
evening set	10342 NOV 02 18.44	3 X 40 33		morning rise	10349 Feb 09 13.26 10349 Feb 27 10:59	23 ≈20 13 27°≈33'18	10.41821 AU
conjunction	10342 Nov 20 13:56	5° <b>∡</b> 759'57	1°40'12	morning rise	10349 Mar 20 03:59	27 <b>≈</b> 33 18	
minimum elong	10342 Nov 20 13:54	5° <b>∡</b> 759'56	1°40'12 1°40'38	retrograde	10349 Jun 08 18:34	5° <b>∺</b> 09'24	
max. Earth dist.	10342 Nov 20 19:34 10342 Nov 20 09:47		10.36070 AU	opposition	10349 Aug 15 07:45	1° <b>)</b> 47'05	1°18'53
morning rise	10342 Nov 20 09:47 10342 Dec 08 09:18	8° <b>×</b> 13'08	10.30070 AC	min. Earth dist.	10349 Aug 15 14:46	1° <b>)</b> 45'42	8.43781 AU
retrograde	10342 Dec 06 07:16 10343 Mar 22 07:25	16° <b>×</b> 13'00'		iiiii. Lartii dist.	10349 Sep 08 04:00	30°R≈	0. <del>4</del> 3/01 AC
opposition	10343 May 28 22:30	12° 🗷 38'12	2°11'29	direct	10349 Oct 23 17:28	28°≈20'17	
min. Earth dist.	10343 May 29 02:00	12° <b>x</b> 3812	8.35267 AU	direct	10349 Dec 07 11:54	0° <b>¥</b>	
direct	10343 Aug 04 18:36	9° <b>×</b> 12'02	6.33207 AC	evening set	10350 Feb 05 23:57	6° <b>∺</b> 09'47	
evening set	10343 Nov 16 19:52	17° <b>×</b> <sup>7</sup> 03'16		evening set	10330100 03 23.37	0 7(0)4/	
evening set	10343 1101 10 17.32	17 × 03 10		conjunction	10350 Feb 23 11:02	8° <b>¥</b> 19'45	0°52'23
conjunction	10343 Dec 04 14:57	19° <b>∡</b> 16'36	1°50'24	minimum elong	10350 Feb 23 11:04	8° <b>¥</b> 19'45	0°52'36
minimum elong	10343 Dec 04 14:56	19° <b>∡</b> 16'35	1°50'52	max. Earth dist.	10350 Feb 23 02:40		10.45798 AU
max. Earth dist.	10343 Dec 04 09:07		10.34464 AU	morning rise	10350 Mar 12 18:33	10° <b>¥</b> 28'41	10.15770110
morning rise	10343 Dec 22 09:15	21° <b>×</b> <sup>7</sup> 29'46	10.5 110 1710	retrograde	10350 Jun 21 20:07	18° <b>¥</b> 01'20	
retrograde	10344 Apr 03 21:27	29° <b>×</b> 719'41		opposition	10350 Aug 28 14:52	14° <b>)</b> 39'30	0°50'26
opposition	10344 Jun 10 07:39	25° <b>×</b> 754'38	2°20'35	min. Earth dist.	10350 Aug 28 21:17	14° <b>)</b> 38'15	8.47971 AU
min. Earth dist.	10344 Jun 10 12:28	25° <b>×</b> 753'40	8.34174 AU	direct	10350 Nov 06 06:04	11° <b>X</b> 13'15	0.17571110
direct	10344 Aug 17 07:59	22° <b>x</b> 33 40	0.54174710	evening set	10350 Nov 00 00:04 10351 Feb 19 07:07	18° <b>¥</b> 59'10	
ancet	10344 Nov 26 23:04	0°る		evening set	10331100 17 07.07	10 /(3) 10	
evening set	10344 Nov 29 22:04	0° <b>ರ</b> 21'47		conjunction	10351 Mar 08 15:49	21° <b>¥</b> 07'56	0°28'23
evening sec	103111101 29 22.01	0 021 17		minimum elong	10351 Mar 08 15:50	21° <b>X</b> 07'56	0°28'30
conjunction	10344 Dec 17 16:34	2°₹35'07	1°54'44	max. Earth dist.	10351 Mar 08 08:20		10.50203 AU
minimum elong	10344 Dec 17 16:34	2°る35'07		morning rise	10351 Mar 05 05:25 10351 Mar 25 21:04	23° <b>)</b> 15'43	10.50205710
max. Earth dist.	10344 Dec 17 08:59		10.33876 AU	morning rise	10351 Jun 05 12:27	0°Υ	
morning rise	10345 Jan 04 09:31	4° <b>ろ</b> 48'02	10.55070710	retrograde	10351 Jul 04 18:50	0° <b>Υ</b> 45'12	
retrograde	10345 Apr 17 11:26	12° <b>る</b> 36'24		readgrade	10351 Aug 03 10:54	30°R <b>)</b> €	
opposition	10345 Jun 23 17:33	9° <b>る</b> 11'52	2°22'12	opposition	10351 Nag 05 10:54 10351 Sep 10 20:18	27° <b>¥</b> 23'49	0°19'48
min. Earth dist.	10345 Jun 23 23:57	9° <b>ට</b> 11'32	8.34129 AU	min. Earth dist.	10351 Sep 10 20:10 10351 Sep 11 02:08	27° <b>)</b> 22'41	8.52497 AU
direct	10345 Aug 30 22:54	5° <b>♂</b> 44'46	0.5 112) 110	direct	10351 Nov 19 16:19	23° <b>¥</b> 58'13	0.52157110
evening set	10345 Dec 13 23:43	13° <b>る</b> 40'07		uncet	10352 Feb 18 06:47	0° <b>Υ</b>	
evening sec	103 13 BCC 13 23.13	13 0 10 07		evening set	10352 Mar 03 09:28	1° <b>Υ</b> 40'14	
conjunction	10345 Dec 31 17:13	15° <b>ರ</b> 53'11	1°52'57	evening sec	10352 1.141 03 03.20		
minimum elong	10345 Dec 31 17:14	15° <b>පි</b> 53'12		conjunction	10352 Mar 20 15:33	3° <b>Y</b> 47'44	0°03'15
max. Earth dist.	10345 Dec 31 07:44		10.34373 AU	minimum elong	10352 Mar 20 15:33	3° <b>Y</b> 47'44	0°03'16
morning rise	10346 Jan 18 08:37	18° <b>ට</b> 05'40		behind sun begin	10352 Mar 20 08:28		
retrograde						3°'Y'45'34	
	10346 Apr 30 22:59	25° <b>る</b> 51'40		behind sun end	10352 Mar 20 22:38	3° <b>Y</b> 45'34 3° <b>Y</b> 49'54	
-	10346 Apr 30 22:59 10346 Jul 07 03:55	25°る51'40 22°る27'42	2°16'14	behind sun end max. Earth dist.	10352 Mar 20 22:38 10352 Mar 20 08:57	3° <b>Ƴ</b> 49'54	10.54817 AU
opposition	10346 Jul 07 03:55	25°る51'40 22°る27'42 22°る26'09	2°16'14 8.35155 AU	max. Earth dist.	10352 Mar 20 08:57	3° <b>Υ</b> 49'54 3° <b>Υ</b> 45'43	10.54817 AU
-	10346 Jul 07 03:55 10346 Jul 07 11:43	22° <b>る</b> 27'42 22° <b>る</b> 26'09			10352 Mar 20 08:57 10352 Apr 06 18:36	3° <b>Ƴ</b> 49'54	10.54817 AU
opposition min. Earth dist. direct	10346 Jul 07 03:55	22° <b>る</b> 27'42		max. Earth dist. morning rise desc. node	10352 Mar 20 08:57	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05	10.54817 AU
opposition min. Earth dist.	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58	22°පි27'42 22°පි26'09 19°පි00'23		max. Earth dist. morning rise desc. node retrograde	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08	
opposition min. Earth dist. direct evening set	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58	22°පි27'42 22°පි26'09 19°පි00'23 26°පි55'58	8.35155 AU	max. Earth dist. morning rise desc. node	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05	
opposition min. Earth dist. direct	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11	22°පි27'42 22°පි26'09 19°පි00'23	8.35155 AU 1°45'10	max. Earth dist. morning rise desc. node retrograde opposition	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08	-0°11'28
opposition min. Earth dist. direct evening set conjunction	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24	22° පි27'42 22° පි26'09 19° පි00'23 26° පි55'58 29° පි08'32 29° පි08'32	8.35155 AU 1°45'10	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist.	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13	-0°11'28
opposition min. Earth dist. direct evening set  conjunction minimum elong	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26	22° පි27'42 22° පි26'09 19° පි00'23 26° පි55'58 29° පි08'32 29° පි08'32	8.35155 AU 1°45'10 1°45'37	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19	-0°11'28
opposition min. Earth dist. direct evening set  conjunction minimum elong	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46	22° පි27'42 22° පි26'09 19° පි00'23 26° පි55'58 29° පි08'32 29° පි08'32 29° පි05'11	8.35155 AU 1°45'10 1°45'37	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19	-0°11'28 8.57124 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 04:46 10347 Jan 21 11:04	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る08'32 29°る05'11 0°≈	8.35155 AU 1°45'10 1°45'37	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18	-0°11'28 8.57124 AU -0°21'57
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る08'32 29°る05'11 0°≈ 1°≈20'22	8.35155 AU 1°45'10 1°45'37	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set conjunction	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18	-0°11'28 8.57124 AU -0°21'57
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25	8.35155 AU 1°45'10 1°45'37 10.35936 AU	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18	-0°11'28 8.57124 AU -0°21'57 0°22'02
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01	8.35155 AU 1°45'10 1°45'37 10.35936 AU 2°03'04	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57	-0°11'28 8.57124 AU -0°21'57 0°22'02
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23	8.35155 AU 1°45'10 1°45'37 10.35936 AU 2°03'04	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:34 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41	8.35155 AU 1°45'10 1°45'37 10.35936 AU 2°03'04	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41	8.35155 AU 1°45'10 1°45'37 10.35936 AU 2°03'04	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'56	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51
opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15 12°≈19'08	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51
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	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11 10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36 10348 Jan 28 10:23 10348 Jan 28 10:26	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15 12°≈19'08	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18	max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU
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.	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:26 10348 Jan 27 23:43	22°220°\overline{220	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18	max. Earth dist. morning rise desc. 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	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35 10354 Mar 29 00:37	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU
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.	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:26 10348 Jan 27 23:43 10348 Feb 14 22:15	22°220°\overline{220	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18	max. Earth dist. morning rise desc. 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	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10354 Apr 15 04:35 10354 Apr 15 01:28 10354 Apr 15 01:28	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58 28°Y43'56 28°Y43'55	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU
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. morning rise	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Jul 20 22:16 10347 Jul 20 22:16 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:23 10348 Jan 27 23:43 10348 Feb 14 22:15 10348 Feb 18 23:53 10348 May 26 13:41	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15 12°≈19'08 12°≈19'08 12°≈15'46 14°≈30'08 15°≈	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18	max. Earth dist. morning rise desc. 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	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35 10354 Apr 15 01:28 10354 Apr 15 01:28 10354 Apr 15 01:26 10354 Apr 14 23:11	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58 28°Y43'56 28°Y43'55	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU -0°45'47 0°45'59
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. morning rise	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Jul 20 22:16 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:23 10348 Jan 27 23:43 10348 Feb 14 22:15 10348 Feb 18 23:53	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15 12°≈19'08 12°≈19'08 12°≈15'46 14°≈30'08 15°≈ 22°≈09'48	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18 10.38471 AU	max. Earth dist. morning rise desc. 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	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10354 Apr 15 04:35 10354 Apr 15 01:28 10354 Apr 15 01:28	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'56 22°Y28'56 22°Y38'58 28°Y43'56 28°Y43'55 28°Y43'14	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU -0°45'47 0°45'59
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. morning rise retrograde opposition	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:23 10348 Feb 14 22:15 10348 Feb 18 23:53 10348 May 26 13:41 10348 Aug 01 23:22 10348 Aug 02 07:13	22°る27'42 22°る26'09 19°る00'23 26°る55'58 29°る08'32 29°る05'11 0°≈ 1°≈20'22 9°≈03'25 5°≈40'01 5°≈38'23 2°≈12'41 10°≈07'15 12°≈19'08 12°≈19'08 12°≈19'08 12°≈15'46 14°≈30'08 15°≈ 22°≈09'48 18°≈46'57	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18 10.38471 AU	max. Earth dist. morning rise desc. 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	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35 10354 Apr 15 01:28 10354 Apr 15 01:28 10354 Apr 15 01:26 10354 Apr 14 23:11 10354 Apr 25 09:04 10354 May 02 00:03	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y17'57 18°Y24'56 25°Y49'39 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58 28°Y43'55 28°Y43'55 28°Y43'14 0°\*\textbf{8}	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU -0°45'47 0°45'59
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. morning rise  retrograde opposition minimum elong max. Earth dist. morning rise	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 22:16 10347 Jul 20 22:16 10347 Sep 27 10:38 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:23 10348 Jan 27 23:43 10348 Feb 14 22:15 10348 Feb 18 23:53 10348 May 26 13:41 10348 Aug 01 23:22	22°\( \frac{3}{2}2'\) \( \frac{4}{2} \) 22°\( \frac{3}{2}6'\) \( 09'\) 19°\( \frac{3}{2}0''\) 22°\( \frac{3}{2}0''\) 32'\( 29°\) 30'\( 05'\) 11\( 0°\) \( 1°\) 20'\( 22'\) 9°\( \triangle 03'\) 25'\( 5°\) 40'\( 01'\) 5°\( \triangle 38'\) 23'\( 2°\) 12'\( 41'\) 10°\( \triangle 07'\) 15'\( 12°\) 15'\( 14'\) 10'\( 15'\) 12'\( \triangle 19'\) 18'\( 12'\) 15'\( 14'\) 14'\( 14'\) 30'\( 08'\) 15'\( \triangle 22'\) 20'\( \triangle 09'\) 48'\( 18'\) 24'\( 18'\) 45'\( 24'\)	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18 10.38471 AU	max. Earth dist. morning rise desc. 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 minimum elong max. Earth dist.	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Mar 16 07:11 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35 10354 Apr 25 09:04 10354 Apr 15 01:28 10354 Apr 15 01:28 10354 Apr 15 01:26 10354 Apr 15 01:26 10354 Apr 25 09:04 10354 Aug 11 02:29	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y19'30 22°Y28'56 22°Y28'56 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58 28°Y43'55 28°Y43'14 0°8 0°848'15 8°811'34	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU -0°45'47 0°45'59 10.63750 AU
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. morning rise  retrograde opposition minimum elong max. Earth dist. morning rise	10346 Jul 07 03:55 10346 Jul 07 11:43 10346 Sep 13 15:58 10346 Dec 27 23:11  10347 Jan 14 15:24 10347 Jan 14 15:26 10347 Jan 14 04:46 10347 Jan 21 11:04 10347 Feb 01 05:07 10347 May 14 06:54 10347 Jul 20 14:04 10347 Jul 20 12:16 10347 Sep 27 10:38 10348 Jan 10 19:36  10348 Jan 28 10:23 10348 Jan 28 10:23 10348 Feb 14 22:15 10348 Feb 18 23:53 10348 May 26 13:41 10348 Aug 01 23:22 10348 Aug 02 07:13 10348 Oct 10 03:02	22°\( \frac{\cap2}{2}2'\) \( \frac{\cap2}{2}2'\) \( \frac{\cap2}{2}6'\) \( \frac{\cap2}{9}'\) \( \frac{\cap2}{3}2'\) \( \frac{\cap2}{3}2'	8.35155 AU  1°45'10 1°45'37 10.35936 AU  2°03'04 8.37195 AU  1°31'54 1°32'18 10.38471 AU	max. Earth dist. morning rise desc. 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 minimum elong max. Earth dist.	10352 Mar 20 08:57 10352 Apr 06 18:36 10352 May 07 14:37 10352 Jul 16 15:04 10352 Sep 23 00:09 10352 Sep 23 04:51 10352 Dec 01 23:35 10353 Apr 02 10:35 10353 Apr 02 10:34 10353 Apr 02 05:33 10353 Apr 02 05:33 10353 Apr 19 11:23 10353 Jul 29 08:46 10353 Oct 06 02:19 10353 Oct 06 04:53 10353 Dec 15 04:35 10354 Apr 15 01:28 10354 Apr 15 01:28 10354 Apr 15 01:26 10354 Apr 14 23:11 10354 Apr 25 09:04 10354 May 02 00:03	3°Y49'54 3°Y45'43 5°Y54'20 9°Y24'05 13°Y21'08 10°Y00'08 9°Y59'13 6°Y35'19 14°Y13'18 16°Y19'30 16°Y19'30 16°Y19'30 22°Y28'56 22°Y28'56 22°Y28'26 19°Y05'01 26°Y38'58 28°Y43'55 28°Y43'14 0°8 0°848'15 8°811'34 4°851'00	-0°11'28 8.57124 AU -0°21'57 0°22'02 10.59406 AU -0°41'51 8.61626 AU -0°45'47 0°45'59 10.63750 AU

direct	10354 Dec 28 06:06	1° <b>8</b> 28'00		direct	10361 Mar 12 10:33	14° <b>©</b> 26'04	
evening set	10355 Apr 10 14:14	8° <b>8</b> 58'07		evening set	10361 Jun 21 06:00	21° <b>©</b> 42'53	
	10055 1 05 10 10		1005101		10261 7 1 00 01 12	22201455	1040141
conjunction	10355 Apr 27 12:43	11° <b>8</b> 01'57		conjunction	10361 Jul 08 01:42	23°544'55	
minimum elong	10355 Apr 27 12:41	11° <b>8</b> 01'57		minimum elong	10361 Jul 08 01:43	23°544'55	
max. Earth dist.	10355 Apr 27 13:00	_	10.67649 AU	max. Earth dist.	10361 Jul 08 10:27		10.74457 AU
morning rise	10355 May 14 09:23	13° <b>8</b> 05'18		morning rise	10361 Jul 24 23:50	25° <b>©</b> 47'39	
. 1	10355 May 30 18:54	15° <b>8</b>			10361 Sep 01 19:30	0°N	
retrograde	10355 Aug 23 19:24	20° <b>8</b> 27'49	1024140	retrograde	10361 Nov 05 20:43	3° <b>Ω</b> 16'33	
opposition	10355 Nov 01 02:04	17° <b>8</b> 07'21		***	10362 Jan 13 18:15	30°Rூ	2000120
min. Earth dist.	10355 Nov 01 00:44	. •	8.69431 AU	opposition	10362 Jan 15 01:11	29°954'07	
1' '	10355 Dec 01 08:29	15°R <b>8</b>		min. Earth dist.	10362 Jan 14 17:38		8.73551 AU
direct	10356 Jan 10 02:52	13° <b>8</b> 45'11		direct	10362 Mar 24 21:55	26°934'24	
	10356 Feb 18 01:53	15° <b>8</b>		. ,	10362 May 29 09:18	0° <b>Ω</b>	
evening set	10356 Apr 22 00:50	21° <b>8</b> 11'50		evening set	10362 Jul 03 12:55	3° <b>Ω</b> 51'18	
aaniunatian	10356 May 08 21:08	23° <b>8</b> 14'41	1025141	conjunction	10362 Jul 20 10:47	5° <b>Ω</b> 54'07	1020124
conjunction	•	23° <b>8</b> 14'41				5°Ω54'08	
minimum elong	10356 May 08 21:06			minimum elong	10362 Jul 20 10:49		
max. Earth dist.	10356 May 08 23:07	_	10.70929 AU	max. Earth dist.	10362 Jul 20 19:18		10.72153 AU
morning rise	10356 May 25 16:22	25° <b>8</b> 17'15		morning rise	10362 Aug 06 11:38	7° <b>Ω</b> 57'47	
	10356 Jul 08 23:10	0°П			10362 Oct 25 11:49	15° <b>Ω</b>	
retrograde	10356 Sep 04 09:54	2° <b>Ⅱ</b> 39'35		retrograde	10362 Nov 18 15:50	15° <b>Ω</b> 29'11	
	10356 Nov 03 22:19	30° <b>₹</b> 8			10362 Dec 13 02:24	15°R <b>Ω</b>	
opposition	10356 Nov 12 23:58	29° <b>8</b> 19'05		opposition	10363 Jan 27 19:56	12° <b>Ω</b> 06′08	
min. Earth dist.	10356 Nov 12 21:33		8.72386 AU	min. Earth dist.	10363 Jan 27 12:38		8.70724 AU
direct	10357 Jan 21 22:42	25° <b>8</b> 57'41		direct	10363 Apr 06 12:00	8° <b>Ω</b> 46'12	
	10357 Apr 04 08:31	$\Pi$ °0			10363 Jul 06 20:49	15° <b>Ω</b>	
evening set	10357 May 04 08:53	3° <b>Ⅱ</b> 21'19		evening set	10363 Jul 15 22:16	16° <b>Ω</b> 04'01	
		_					
conjunction	10357 May 21 03:29	5° <b>Ⅲ</b> 23'23		conjunction	10363 Aug 01 22:59	18° <b>Ω</b> 07'55	
minimum elong	10357 May 21 03:27	5° <b>Ⅲ</b> 23'23		minimum elong	10363 Aug 01 23:01	18° <b>Ω</b> 07'55	
max. Earth dist.	10357 May 21 06:44		10.73469 AU	max. Earth dist.	10363 Aug 02 07:59		10.68908 AU
morning rise	10357 Jun 06 21:58	7° <b>Ⅱ</b> 25'24		morning rise	10363 Aug 19 02:52	20° <b>Ω</b> 12'44	
retrograde	10357 Sep 17 00:51	14° <b>Ⅱ</b> 48'09		retrograde	10363 Dec 01 15:14	27° <b>Ω</b> 46'55	
opposition	10357 Nov 25 20:50	11° <b>Ⅲ</b> 27′29		opposition	10364 Feb 09 15:27	24° <b>Ω</b> 23'10	
min. Earth dist.	10357 Nov 25 16:52		8.74546 AU	min. Earth dist.	10364 Feb 09 07:48		8.67055 AU
direct	10358 Feb 03 16:47	8° <b>Ⅱ</b> 06'44		direct	10364 Apr 18 01:16	21° <b>Ω</b> 02'52	
evening set	10358 May 16 14:52	15° <b>Ⅲ</b> 27'46		evening set	10364 Jul 27 10:52	28° <b>Ω</b> 22'18	
					10364 Aug 09 21:02	0° <b>™</b>	
conjunction	10358 Jun 02 08:39	17° <b>Ⅲ</b> 29′23					
minimum elong	10358 Jun 02 08:38	17° <b>Ⅱ</b> 29'22		conjunction	10364 Aug 13 14:44	0° Mp 27′27	
max. Earth dist.	10358 Jun 02 14:04		10.75167 AU	minimum elong	10364 Aug 13 14:47	0° <b>™</b> 27'27	
morning rise	10358 Jun 19 02:56	19° <b>Ⅲ</b> 31′07		max. Earth dist.	10364 Aug 14 00:01	-•	10.64936 AU
retrograde	10358 Sep 29 16:11	26° <b>Ⅱ</b> 54'48		morning rise	10364 Aug 30 21:54	2°M 33'37	
opposition	10358 Dec 08 16:39	23° <b>Ⅲ</b> 33'50		retrograde	10364 Dec 13 16:52	10° <b>m</b> 10'40	
min. Earth dist.	10358 Dec 08 10:46		8.75806 AU	opposition	10365 Feb 21 11:56	6° <b>™</b> 46'13	
direct	10359 Feb 16 08:00	20° <b>Ⅱ</b> 13'37		min. Earth dist.	10365 Feb 21 04:24	6° <b>™</b> 47'40	8.62774 AU
evening set	10359 May 28 19:54	27° <b>Ⅲ</b> 32'37		direct	10365 Apr 30 14:54	3° M 25'23	
				evening set	10365 Aug 09 03:49	10°Mp47'11	
conjunction	10359 Jun 14 13:38	29° <b>Ⅲ</b> 34′02					
minimum elong	10359 Jun 14 13:37	29° <b>Ⅲ</b> 34′02		conjunction	10365 Aug 26 10:53	12° <b>m</b> 53'42	
max. Earth dist.	10359 Jun 14 21:18	29° <b>Ⅲ</b> 36′22	10.75933 AU	minimum elong	10365 Aug 26 10:54	12° My 53'43	0°44'31
	10359 Jun 18 02:53	$0$ $\circ$ $\odot$		max. Earth dist.	10365 Aug 26 19:05	12° M 56'13	10.60467 AU
morning rise	10359 Jul 01 08:20	1° <b>9</b> 35'47		morning rise	10365 Sep 12 21:25	15° <b>m</b> 01'17	
retrograde	10359 Oct 12 08:16	9° <b>5</b> 00'49		retrograde	10365 Dec 26 19:51	22° <b>m</b> 41'11	
opposition	10359 Dec 21 11:39	5° <b>5</b> 39'27	-2°22'03	opposition	10366 Mar 06 09:27	19° Mp 16'05	-0°39'48
min. Earth dist.	10359 Dec 21 04:10	5° <b>5</b> 40'52	8.76092 AU	min. Earth dist.	10366 Mar 06 03:06	19° <b>m</b> 17'20	8.58116 AU
direct	10360 Feb 28 22:21	2° <b>5</b> 19'36		direct	10366 May 13 07:41	15° <b>m</b> 54'31	
evening set	10360 Jun 09 00:43	9° <b>5</b> 37'11		evening set	10366 Aug 22 01:28	23° <b>m</b> 19'26	
conjunction	10360 Jun 25 19:04	11° <b>©</b> 38'45		conjunction	10366 Sep 08 11:38	25° <b>™</b> 27'22	
minimum elong	10360 Jun 25 19:04	11° <b>5</b> 38'46		minimum elong	10366 Sep 08 11:39	25° Mp 27′23	
max. Earth dist.	10360 Jun 26 04:00		10.75711 AU	max. Earth dist.	10366 Sep 08 18:01	-•	10.55722 AU
morning rise	10360 Jul 12 15:03	13° <b>©</b> 40'50		morning rise	10366 Sep 26 01:22	27° Mp 36'21	
retrograde	10360 Oct 24 02:28	21° <b>©</b> 07'37			10366 Oct 16 16:38	0∘ <b>ত</b>	
opposition	10361 Jan 02 06:28	17° <b>©</b> 45'45	-2°18'47	retrograde	10367 Jan 09 01:43	5° <b>≏</b> 19'00	
min. Earth dist.	10361 Jan 01 22:33	17° <b>5</b> 47'15	8.75354 AU	opposition	10367 Mar 19 08:27	1° <b>≏</b> 53'21	-0°09'01

		_				_	
min. Earth dist.	10367 Mar 19 03:44		8.53303 AU	morning rise	10372 Dec 15 07:16	15° <b>∡</b> 38′52	
	10367 Apr 13 21:25	30°Ŗ <b>₯</b>		retrograde	10373 Mar 28 23:42	23° <b>∡</b> ¹29'34	
direct	10367 May 26 02:20	28° Mp 30′59		opposition	10373 Jun 04 12:51	20° <b>∡</b> *03'43	2°17'21
asc. node	10367 Jul 04 21:44	29° <b>m</b> 53'31		min. Earth dist.	10373 Jun 04 17:27	20° <b>∡</b> 02'47	8.33116 AU
	10367 Jul 06 12:02	0∘ <b>⊽</b>		direct	10373 Aug 11 11:23	16° <b>∡</b> ³36'39	
evening set	10367 Sep 04 04:04	5° <b>₽</b> 59'36		evening set	10373 Nov 23 19:03	24° <b>₹</b> 29'47	
						<b>=</b>	
conjunction	10367 Sep 21 17:07	8° <b>₾</b> 08'53	0°05'21	conjunction	10373 Dec 11 13:49	26° <b>₹</b> 43'15	1°53'29
minimum elong	10367 Sep 21 17:07	8° <b>≏</b> 08'53	0°05'23	minimum elong	10373 Dec 11 13:48	26° <b>∡</b> ⁴43'15	1°53'58
behind sun begin	10367 Sep 21 10:09	8° <b>≏</b> 06'45		max. Earth dist.	10373 Dec 11 06:39		10.32687 AU
behind sun end	10367 Sep 22 00:04	8° <b>≏</b> 11'00		morning rise	10373 Dec 29 07:38	28° <b>≯</b> 56'28	
max. Earth dist.	10367 Sep 21 21:58	8° <b>≏</b> 10′21	10.50920 AU		10374 Jan 07 00:15	0°₹	
morning rise	10367 Oct 09 09:27	10° <b>≏</b> 19'09		retrograde	10374 Apr 11 13:27	6° <b>る</b> 46'00	
retrograde	10368 Jan 22 09:07	18° <b>≏</b> 04'25		opposition	10374 Jun 17 22:30	3° <b>る</b> 20'44	2°22'26
opposition	10368 Mar 31 09:01	14° <b>≏</b> 38'18	0°22'32	min. Earth dist.	10374 Jun 18 03:58	3° <b>る</b> 19'38	8.32815 AU
min. Earth dist.	10368 Mar 31 05:36	14° <b>≙</b> 38'59	8.48561 AU		10374 Aug 13 23:03	30°₽ <b>⋌</b> 7	
direct	10368 Jun 07 00:27	11° <b>≏</b> 15′04		direct	10374 Aug 25 02:19	29° <b>∡</b> 53′21	
evening set	10368 Sep 16 12:01	18° <b>≏</b> 47'53			10374 Sep 05 05:10	8°0	
				evening set	10374 Dec 07 21:06	7° <b>る</b> 48'29	
conjunction	10368 Oct 04 03:35	20° <b>≏</b> 58'25	0°30'40				
minimum elong	10368 Oct 04 03:34	20° <b>♀</b> 58'25	0°30'49	conjunction	10374 Dec 25 15:10	10° <b>ට</b> 01'49	1°54'30
max. Earth dist.	10368 Oct 04 07:18	20° <b>♀</b> 59'34	10.46285 AU	minimum elong	10374 Dec 25 15:10	10° <b>ට</b> 01'49	1°54'59
morning rise	10368 Oct 21 21:50	23° <b>٩</b> 09'48		max. Earth dist.	10374 Dec 25 07:18	9° <b>る</b> 59'21	10.32944 AU
· ·	10369 Jan 01 08:22	$0^{\circ}$ M		morning rise	10375 Jan 12 07:26	12° <b>る</b> 14'39	
retrograde	10369 Feb 03 18:19	0° <b>M</b> 57′21		retrograde	10375 Apr 25 02:12	20° <b>る</b> 02'14	
C	10369 Mar 09 10:44	30° <b>₽</b> Ω		opposition	10375 Jul 01 08:51	16° <b>る</b> 37'39	2°19'53
opposition	10369 Apr 13 11:07	27° <b>Ω</b> 30'55	0°53'18	min. Earth dist.	10375 Jul 01 14:40	16° <b>る</b> 36'29	8.33630 AU
min. Earth dist.	10369 Apr 13 08:43	27° <b>Ω</b> 31'24	8.44110 AU	direct	10375 Sep 07 18:44	13° <b>る</b> 10'11	
direct	10369 Jun 20 02:00	24° <b>Ω</b> 06'48	0.1.110110	evening set	10375 Dec 21 21:51	21° <b>る</b> 06'07	
	10369 Sep 15 11:08	0°M		evening sec	10070 200 21 21.01	21 3000,	
evening set	10369 Sep 30 01:09	1°M44'06		conjunction	10376 Jan 08 14:55	23° <b>る</b> 19'05	1°49'24
evening set	10307 Бер 30 01.07	1 11044 00		minimum elong	10376 Jan 08 14:57		1°49'52
conjunction	10369 Oct 17 18:38	3°M55'43	0°54'42	max. Earth dist.	10376 Jan 08 06:44		10.34319 AU
minimum elong	10369 Oct 17 18:36	3°M55'43	0°54'58	morning rise	10376 Jan 26 05:27	25° <b>ට</b> 31'20	10.54517 AC
max. Earth dist.	10369 Oct 17 18:30 10369 Oct 17 20:43		10.42030 AU	morning rise	10376 Mar 06 02:46	25 <b>O</b> 51 20 0° <b>≈</b>	
	10369 Nov 04 14:02	6°M07'59	10.42030 AU	ratra ara da		0 ∞ 3°≈16'16	
morning rise		13°M57'21		retrograde	10376 May 07 13:28	30°Rる	
retrograde	10370 Feb 17 07:01		1021120	***	10376 Jul 12 05:41	• -	2000152
opposition	10370 Apr 26 15:04	10°M30'47	1°21'39	opposition	10376 Jul 13 19:25	29°る52'27	
min. Earth dist.	10370 Apr 26 13:59		8.40151 AU	min. Earth dist.	10376 Jul 14 01:57		8.35515 AU
direct	10370 Jul 03 04:53	7°M05'47		direct	10376 Sep 20 11:36	26° <b>る</b> 25'04	
evening set	10370 Oct 13 19:00	14°M47'39			10376 Nov 26 07:21	0° <b>≈</b>	
	10370 Oct 15 11:17	15°M		evening set	10377 Jan 03 20:25	4° <b>≈</b> 20'38	
conjunction	10370 Oct 31 13:36	17° <b>M</b> .00'07	1°16'07	conjunction	10377 Jan 21 12:05	6° <b>≈</b> 32'58	1°38'32
minimum elong	10370 Oct 31 13:33	17°M00'06	1°16'28	minimum elong	10377 Jan 21 12:07	6°≈32'59	1°38'57
max. Earth dist.	10370 Oct 31 13:35		10.38361 AU	max. Earth dist.	10377 Jan 21 03:13	6° <b>≈</b> 30'11	
morning rise	10370 Nov 18 09:26	19°M 13'01	10.36301 AC	morning rise	10377 Feb 08 00:45	8°≈44'28	10.30729 AU
retrograde	10370 Nov 18 09:20 10371 Mar 02 20:50	27°M 03'34		morning risc	10377 Apr 10 13:11	15° <b>≈</b>	
opposition	10371 May 09 20:47	23°M37'03	1°46'01	retrograde	10377 Apr 10 13:11 10377 May 20 23:07	16° <b>≈</b> 26'10	
min. Earth dist.	10371 May 09 21:35	23°M36'54	8.36887 AU	retrograde	10377 Jul 01 01:59	15°R≈	
direct	10371 May 09 21:33	20°M11'15	6.30667 AU	omnosition	10377 Jul 01 01:39 10377 Jul 27 05:40		1°53'06
	10371 Jul 16 11:22 10371 Oct 27 16:41	20 ILT 13 27°M57'29		opposition min. Earth dist.		13°≈03'09	8.38371 AU
evening set					10377 Jul 27 12:55	13°≈01'43	8.383/1 AU
	10371 Nov 13 02:15	0° <b>∡</b>		direct	10377 Oct 04 03:40	9°≈36'03	
	10271 N 14 11.46	00.710121	1022142		10377 Dec 27 11:28	15° <b>≈</b>	
conjunction	10371 Nov 14 11:46	0° ₹ 10'31	1°33'42	evening set	10378 Jan 17 15:32	17° <b>≈</b> 30′02	
minimum elong	10371 Nov 14 11:44	0° <b>₹</b> 10'30	1°34'07		10270 F.1. 04. 05.27	100 - 41124	1000105
max. Earth dist.	10371 Nov 14 08:42		10.35481 AU	conjunction	10378 Feb 04 05:27	19° <b>≈</b> 41'34	
morning rise	10371 Dec 02 07:29	2° <b>×</b> <sup>7</sup> 23'47		minimum elong	10378 Feb 04 05:30	19° <b>≈</b> 41'35	1°22'55
retrograde	10372 Mar 15 10:24	10° <b>√</b> 14'49	2004150	max. Earth dist.	10378 Feb 03 20:06		10.40050 AU
opposition	10372 May 22 04:08	6° <b>х</b> 48'33	2°04'58	morning rise	10378 Feb 21 16:12	21°≈52'08	
min. Earth dist.	10372 May 22 07:09	6° <b>₹</b> 47'56	8.34500 AU	retrograde	10378 Jun 03 04:59	29° <b>≈</b> 30'19	1020:2
direct	10372 Jul 28 21:55	3°×722'01		opposition	10378 Aug 09 15:16	26°≈08'02	1°30'34
evening set	10372 Nov 09 17:06	11° <b>∡</b> 12'06		min. Earth dist.	10378 Aug 09 22:44	26°≈06'34	8.42050 AU
	1000033	100 =====	10465-	direct	10378 Oct 17 20:24	22°≈41'22	
conjunction	10372 Nov 27 12:14	13° <b>₹</b> 25'29	1°46'25		10379 Jan 26 18:25	0° <b>)</b> {	
minimum elong	10372 Nov 27 12:12	13° <b>∡</b> 25′29	1°46'52	evening set	10379 Jan 31 06:11	0° <b>)</b> 32′45	
max. Earth dist.	10372 Nov 27 06:41	13° <b>×</b> ′23'45	10.33555 AU				

. ,.	10270 F 1 17 10 00	201/42116	1002120	: E 4 E 4	10204 0 4 25 10 20	110050100	0.67206 AU
conjunction	10379 Feb 17 18:08	2°\(\frac{1}{43}\)		min. Earth dist.	10384 Oct 25 18:38	11° <b>8</b> 58'08	8.67296 AU
minimum elong	10379 Feb 17 18:10	2°\(\frac{1}{4}3'16	1°02'44 10.44097 AU	direct	10385 Jan 03 18:13	8° <b>と</b> 35'59 15° <b>と</b>	
max. Earth dist.	10379 Feb 17 08:54	4° <b>H</b> 52'48	10.4409 / AU	. ,	10385 Apr 07 18:45		
morning rise	10379 Mar 07 02:52			evening set	10385 Apr 16 22:34	16° <b>8</b> 04'59	
retrograde	10379 Jun 16 07:14	12° <b>)</b> € 27'23	1902127	· · · · · · · · · · · · ·	10205 M 02 10.40	100 400125	101750
opposition	10379 Aug 22 23:34	9° <b>)</b> €05'45 9° <b>)</b> €04'26	1°03'36	conjunction	10385 May 03 19:48	18° <b>8</b> 08'25	
min. Earth dist.	10379 Aug 23 06:19 10379 Oct 31 12:02	5° <b>H</b> 39'40	8.46339 AU	minimum elong max. Earth dist.	10385 May 03 19:46	18° <b>8</b> 08'25	10.68694 AU
direct	103/9 Oct 31 12.02 10380 Feb 13 16:15	3 <del>X</del> 3940 13° <b>X</b> 27'39			10385 May 03 19:03	20° <b>8</b> 11'30	10.08094 AU
evening set	10380 Feb 13 10.13	13 八2/39		morning rise	10385 May 20 15:46 10385 Aug 30 05:38	20 <b>8</b> 11 30 27° <b>8</b> 34'42	
agniumation	10290 Mar 02 02:02	15° <b>¥</b> 36'59	0°39'24	retrograde	10385 Aug 30 05:38 10385 Nov 07 16:35	24° <b>8</b> 14'15	1946124
conjunction	10380 Mar 02 02:02 10380 Mar 02 02:04	15 <b>★</b> 3639	0°39'34	opposition min. Earth dist.	10385 Nov 07 15:32	_	8.70035 AU
minimum elong			10.48620 AU	direct			8.70033 AU
max. Earth dist.	10380 Mar 01 17:56	13° <b> ★</b> 34°28 17° <b> ★</b> 45'21	10.48620 AU		10386 Jan 16 17:08	20° <b>8</b> 52'28 28° <b>8</b> 18'19	
morning rise	10380 Mar 19 08:31	25°\(\frac{1}{16}\)'32		evening set	10386 Apr 29 08:22	0°Ⅱ	
retrograde	10380 Jun 28 08:02	25° <del>X</del> 16'32 21° <del>X</del> 55'25	0022144		10386 May 13 07:29	0-Д	
opposition min. Earth dist.	10380 Sep 04 06:11	21° <del>X</del> 55'25 21° <del>X</del> 54'20	0°33'44 8.50964 AU	agnismation	10296 May 16 02:52	0° <b>Ⅱ</b> 20'56	1024!15
	10380 Sep 04 11:42		8.30904 AU	conjunction	10386 May 16 03:53		
direct	10380 Nov 13 00:22	18° <b>)</b> (30′00		minimum elong	10386 May 16 03:51	0°Ⅱ20'56	
evening set	10381 Feb 25 21:25	26° <b>)</b> 14′06		max. Earth dist.	10386 May 16 05:59		10.71040 AU
	10201 Mar. 15 04.50	200 1 22112	0014125	morning rise	10386 Jun 01 22:39	2° <b>Ⅱ</b> 23'23	
conjunction	10381 Mar 15 04:50	28°¥22'12		retrograde	10386 Sep 11 22:28	9° <b>Ⅱ</b> 46'51	200.410.1
minimum elong	10381 Mar 15 04:50	28° <b>)</b> € 22'12	0°14'39	opposition	10386 Nov 20 14:30	6° <b>Ⅱ</b> 26'04	
behind sun begin	10381 Mar 15 01:48	28°\(\frac{1}{2}1'16\) 28°\(\frac{1}{2}2'08\)		min. Earth dist.	10386 Nov 20 11:30	6° <b>Ⅱ</b> 26'38	8.72027 AU
behind sun end	10381 Mar 15 07:51		10.52211 ATT	direct	10387 Jan 29 12:14	3° <b>Ⅱ</b> 04'46	
max. Earth dist.	10381 Mar 14 22:20		10.53311 AU	evening set	10387 May 11 15:58	10° <b>Ⅱ</b> 27'53	
	10381 Mar 28 08:47	0°Υ 0° <b>Υ</b> 20/20		. ,.	1020734 20 10 17	120Ж20157	1047112
morning rise	10381 Apr 01 08:52	0°Υ29'20		conjunction	10387 May 28 10:17	12° <b>Ⅱ</b> 29'57	
retrograde	10381 Jul 11 07:21	7° <b>Y</b> 57'32	0000122	minimum elong	10387 May 28 10:15	12° <b>Ⅱ</b> 29'56	
opposition	10381 Sep 17 11:18	4° <b>Υ</b> 36'50	0°02'33	max. Earth dist.	10387 May 28 14:12		10.72599 AU
min. Earth dist.	10381 Sep 17 15:51	4°Υ35'58	8.55607 AU	morning rise	10387 Jun 14 04:34	14° <b>Ⅱ</b> 32'02	
desc. node	10381 Oct 17 23:07	2°Υ26'38		retrograde	10387 Sep 24 14:55	21° <b>I</b> I56'15	2015150
direct	10381 Nov 26 08:09	1°Υ12'11		opposition	10387 Dec 03 11:33	18° <b>Ⅱ</b> 35'01	
evening set	10382 Mar 10 21:41	8° <b>Ƴ</b> 52'13		min. Earth dist.	10387 Dec 03 07:27	18° <b>Ⅲ</b> 35'48	8.73191 AU
	10202 M 20 02 27	1000050102	0010147	direct	10388 Feb 11 04:03	15° <b>Ⅱ</b> 14'06 22° <b>Ⅱ</b> 35'01	
conjunction	10382 Mar 28 02:27	10° <b>Y</b> 59'03		evening set	10388 May 22 22:06	22°Щ35'01	
minimum elong	10382 Mar 28 02:26	10° <b>Υ</b> 59′02 10° <b>Υ</b> 57′23	0°10'50	· · · · · · · · · · · · ·	10200 I 00 15.47	240T2C147	1952125
behind sun begin	10382 Mar 27 21:00	10° <b>Y</b> 3723		conjunction	10388 Jun 08 15:47	24° <b>Ⅱ</b> 36'47 24° <b>Ⅱ</b> 36'46	
behind sun end	10382 Mar 28 07:52		10.57045 ATT	minimum elong	10388 Jun 08 15:46		
max. Earth dist.	10382 Mar 27 21:15		10.57845 AU	max. Earth dist.	10388 Jun 08 20:52		10.73312 AU
morning rise	10382 Apr 14 04:07	13° <b>Y</b> 05'00 20° <b>Y</b> 30'56		morning rise	10388 Jun 25 10:23	26° <b>Ⅱ</b> 38'48	
retrograde	10382 Jul 24 02:47		0020125	. 1	10388 Jul 25 10:02	0°95	
opposition	10382 Sep 30 14:51	17° <b>Υ</b> 10'33		retrograde	10388 Oct 06 05:28	4°904'15	2021126
min. Earth dist.	10382 Sep 30 18:47	17° <b>℃</b> 09'47	8.59976 AU	opposition	10388 Dec 15 07:47	0°542'30	
direct	10382 Dec 09 14:32	13° <b>Y</b> 46'40		min. Earth dist.	10388 Dec 15 02:38		8.73486 AU
evening set	10383 Mar 23 17:45	21° <b>Y</b> 22'50		1	10388 Dec 24 17:39	30°RⅡ 27°₩21150	
	10202 4 00 10 47	2200020125	0025120	direct	10389 Feb 22 20:07	27° <b>Ⅱ</b> 21'50	
conjunction	10383 Apr 09 19:47	23°Y28'25			10389 Apr 20 23:20	0°95	
minimum elong max. Earth dist.	10383 Apr 09 19:45	23° <b>Y</b> 28'24	0°35′29 10.61995 AU	evening set	10389 Jun 04 03:30	4° <b>5</b> 41'09	
	10383 Apr 09 15:18		10.01995 AU	. ,.	10200 1 20 21 21	(06/10/57	1055122
morning rise	10383 Apr 26 19:20	25° <b>Ƴ</b> 33'17		conjunction	10389 Jun 20 21:31	6°9542'57	
	10383 Jun 06 15:48	0° <b>8</b>		minimum elong	10389 Jun 20 21:31	6° <b>≤</b> 42'57	
retrograde	10202 4 05 21 02			T: 41 11 4	10200 T 21 04 05	(00 4 4157	
.,.	10383 Aug 05 21:03	2° <b>8</b> 57'39		max. Earth dist.	10389 Jun 21 04:05	6°9544'57	10./3138 AU
	10383 Oct 08 18:19	30° <b>₹</b> Υ	0057146	morning rise	10389 Jul 07 17:08	8° <b>ॐ</b> 45'11	10./3138 AU
opposition	10383 Oct 08 18:19 10383 Oct 13 16:42	30° <b>₹Υ</b> 29° <b>Υ</b> 37'26		morning rise retrograde	10389 Jul 07 17:08 10389 Oct 18 22:46	8°945'11 16°912'20	
min. Earth dist.	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52	30°RY 29°Y37'26 29°Y36'50	-0°57'46 8.63908 AU	morning rise retrograde opposition	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25	8°\$45'11 16°\$12'20 12°\$49'59	-2°21'03
	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02	30°RY 29°Y37'26 29°Y36'50 26°Y14'19		morning rise retrograde opposition min. Earth dist.	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51	8°545'11 16°512'20 12°549'59 12°551'14	
min. Earth dist. direct	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8		morning rise retrograde opposition min. Earth dist. direct	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29	-2°21'03
min. Earth dist.	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02	30°RY 29°Y37'26 29°Y36'50 26°Y14'19		morning rise retrograde opposition min. Earth dist.	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51	8°545'11 16°512'20 12°549'59 12°551'14	-2°21'03
min. Earth dist. direct evening set	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49	8.63908 AU	morning rise retrograde opposition min. Earth dist. direct evening set	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jun 16 09:02	8°545'11 16°512'20 12°549'59 12°551'14 9°529'29 16°547'47	-2°21'03 8.72896 AU
min. Earth dist. direct evening set conjunction	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15	8.63908 AU -0°58'04	morning rise retrograde opposition min. Earth dist. direct evening set	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jun 16 09:02	8°545'11 16°512'20 12°549'59 12°551'14 9°529'29 16°547'47	-2°21'03 8.72896 AU -1°52'32
min. Earth dist. direct evening set conjunction minimum elong	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:22	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15 5°851'14	8.63908 AU -0°58'04 0°58'19	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jul 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57	-2°21'03 8.72896 AU -1°52'32 1°53'01
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:22 10384 Apr 21 06:08	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15 5°851'14 5°850'15	8.63908 AU -0°58'04	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jun 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20 10390 Jul 03 13:00	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57 18°\$49'57	-2°21'03 8.72896 AU -1°52'32
min. Earth dist. direct evening set conjunction minimum elong	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:20 10384 Apr 21 06:08 10384 May 08 07:01	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°8'46'49 5°851'15 5°851'14 5°850'15 7°855'09	8.63908 AU -0°58'04 0°58'19	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jul 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20 10390 Jul 03 13:00 10390 Jul 20 01:36	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57 18°\$52'36 20°\$52'43	-2°21'03 8.72896 AU -1°52'32 1°53'01
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:20 10384 Apr 21 06:08 10384 May 08 07:01 10384 Jul 29 14:39	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15 5°850'15 7°855'09 15°8	8.63908 AU -0°58'04 0°58'19	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jul 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20 10390 Jul 03 13:00 10390 Jul 20 01:36 10390 Oct 31 17:42	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57 18°\$52'36 20°\$52'43 28°\$21'54	-2°21'03 8.72896 AU -1°52'32 1°53'01 10.72130 AU
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist.	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:20 10384 Apr 21 06:08 10384 May 08 07:01 10384 Jul 29 14:39 10384 Aug 17 14:05	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15 5°851'14 5°850'15 7°855'09 15°8 15°818'37	8.63908 AU -0°58'04 0°58'19	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jul 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20 10390 Jul 03 13:00 10390 Jul 20 01:36 10390 Oct 31 17:42 10391 Jan 09 22:44	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57 18°\$52'36 20°\$52'43 28°\$21'54 24°\$58'56	-2°21'03 8.72896 AU -1°52'32 1°53'01 10.72130 AU -2°14'13
min. Earth dist. direct evening set conjunction minimum elong max. Earth dist. morning rise	10383 Oct 08 18:19 10383 Oct 13 16:42 10383 Oct 13 19:52 10383 Dec 22 18:02 10384 Mar 01 10:34 10384 Apr 04 09:57 10384 Apr 21 09:22 10384 Apr 21 09:20 10384 Apr 21 06:08 10384 May 08 07:01 10384 Jul 29 14:39	30°RY 29°Y37'26 29°Y36'50 26°Y14'19 0°8 3°846'49 5°851'15 5°850'15 7°855'09 15°8	8.63908 AU -0°58'04 0°58'19 10.65645 AU	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10389 Jul 07 17:08 10389 Oct 18 22:46 10389 Dec 28 03:25 10389 Dec 27 20:51 10390 Mar 07 10:59 10390 Jul 16 09:02 10390 Jul 03 04:18 10390 Jul 03 04:20 10390 Jul 03 13:00 10390 Jul 20 01:36 10390 Oct 31 17:42	8°\$45'11 16°\$12'20 12°\$49'59 12°\$51'14 9°\$29'29 16°\$47'47 18°\$49'57 18°\$52'36 20°\$52'43 28°\$21'54	-2°21'03 8.72896 AU -1°52'32 1°53'01 10.72130 AU

evening set	10391 Jun 28 15:48 10391 Jul 07 10:19	28°\$56'31 0° <b>Ω</b>		retrograde opposition	10397 Jan 16 06:03 10397 Mar 26 08:05	13° <b>♀</b> 01'36 9° <b>♀</b> 35'42	0°09'27
				min. Earth dist.	10397 Mar 26 01:56	9° <b>ჲ</b> 36'55	8.50070 AU
conjunction	10391 Jul 15 12:57	0° <b>Ω</b> 59'19	-1°44'28	direct	10397 Jun 01 23:23	6° <b>₽</b> 13'01	
minimum elong	10391 Jul 15 12:58	0° <b>Ω</b> 59′20	1°44'55	evening set	10397 Sep 11 07:47	13° <b>≏</b> 44'31	
max. Earth dist.	10391 Jul 15 22:49	• • • •	10.70248 AU				
morning rise	10391 Aug 01 12:33	3° <b>Ω</b> 02'54		conjunction	10397 Sep 28 22:20	15° <b>≏</b> 54'38	0°20'15
retrograde	10391 Nov 13 14:11	10° <b>Ω</b> 34'25		minimum elong	10397 Sep 28 22:20	15° <b>≏</b> 54'37	0°20'21
opposition	10392 Jan 22 18:10	7° <b>Ω</b> 10'50		max. Earth dist.	10397 Sep 29 04:18	15° <b>≏</b> 56'28	10.48035 AU
min. Earth dist.	10392 Jan 22 09:28	7° <b>Ω</b> 12'30	8.69118 AU	morning rise	10397 Oct 16 15:50	18° <b>2</b> 05'38	
direct	10392 Mar 31 12:40 10392 Jul 10 00:41	3° <b>Ω</b> 50'18 11° <b>Ω</b> 08'46		retrograde	10398 Jan 29 15:42	25° <b>£</b> 52'41 22° <b>£</b> 26'40	0°40'46
evening set	10392 Jul 10 00.41	11 0600 40		opposition min. Earth dist.	10398 Apr 08 10:10 10398 Apr 08 06:08	22° <b>⊆</b> 2040 22° <b>⊆</b> 27'28	8.46070 AU
conjunction	10392 Jul 27 00:13	13° <b>Ω</b> 12'31	-1°31'38	direct	10398 Apr 08 00:08	19° <b>£</b> 03'16	8.40070 AC
minimum elong	10392 Jul 27 00:15	13°Ω12'31		evening set	10398 Sep 24 19:31	26° <b>₽</b> 39'00	
max. Earth dist.	10392 Jul 27 10:04		10.67601 AU				
	10392 Aug 10 17:40	15° <b>Ω</b>		conjunction	10398 Oct 12 12:04	28° <b>≏</b> 50'11	0°45'00
morning rise	10392 Aug 13 02:50	15° <b>Ω</b> 17'09		minimum elong	10398 Oct 12 12:02	28° <b>≙</b> 50'11	0°45'13
retrograde	10392 Nov 25 13:06	22° <b>Ω</b> 51'12		max. Earth dist.	10398 Oct 12 15:27	28° <b>≏</b> 51'14	10.44193 AU
opposition	10393 Feb 03 14:11	19° <b>Ω</b> 27′03	-1°42'48		10398 Oct 21 20:52	$0^{\circ}$ M	
min. Earth dist.	10393 Feb 03 05:49	19° <b>Ω</b> 28'39	8.66100 AU	morning rise	10398 Oct 30 07:07	1°ML02'08	
direct	10393 Apr 13 01:23	16° <b>Ω</b> 06′16		retrograde	10399 Feb 12 03:26	8° <b>M</b> 50′57	
evening set	10393 Jul 22 12:25	23° <b>Ω</b> 25′56		opposition	10399 Apr 21 13:59	5° <b>M</b> 24'54	1°10'17
				min. Earth dist.	10399 Apr 21 12:00	5°M25'18	8.42461 AU
conjunction	10393 Aug 08 14:52	25° <b>Ω</b> 30'49		direct	10399 Jun 28 02:22	2°M00'46	
minimum elong	10393 Aug 08 14:55	25° <b>Ω</b> 30'50		evening set	10399 Oct 08 11:46	9° <b>™</b> 40'47	
max. Earth dist.	10393 Aug 09 00:11		10.64309 AU	:	10200 0-4 26 05.47	110 <b>M</b> 50151	1007120
morning rise	10393 Aug 25 20:53 10393 Sep 15 14:09	27° <b>Ω</b> 36'43 0° <b>m</b>		conjunction minimum elong	10399 Oct 26 05:47 10399 Oct 26 05:45	11°M52'51 11°M52'50	1°07'38 1°07'56
retrograde	10393 Sep 13 14:09 10393 Dec 08 12:56	5° Mg 13'28		max. Earth dist.	10399 Oct 26 06:55		1 07 30 10.40802 AU
opposition	10393 Dec 08 12:30 10394 Feb 16 10:55	1° Mp 48'45	-1°19'24	morning rise	10399 Nov 13 01:36	14°ML05'27	10.40802 AC
min. Earth dist.	10394 Feb 16 03:11		8.62502 AU	morning rise	10399 Nov 20 14:08	15°M	
	10394 Mar 13 04:43	30°RΩ		retrograde	10400 Feb 25 15:55	21°M55'30	
direct	10394 Apr 25 16:14	28° <b>Ω</b> 27'37		opposition	10400 May 03 19:21	18°M29'30	1°36'26
	10394 Jun 07 02:28	0° <b>™</b>		min. Earth dist.	10400 May 03 19:08	18°M29'33	8.39372 AU
evening set	10394 Aug 04 04:02	5° <b>m</b> 49'16		direct	10400 Jul 10 09:20	15°ML04'37	
				evening set	10400 Oct 21 08:10	22°M48'50	
conjunction	10394 Aug 21 09:46	7° <b>m</b> 55'26	-0°53'50				
minimum elong	10394 Aug 21 09:48	7° M 55'26	0°54'04	conjunction	10400 Nov 08 03:05	25°M01'32	
max. Earth dist.	10394 Aug 21 19:03		10.60513 AU	minimum elong	10400 Nov 08 03:03	25° <b>™</b> 01'31	
morning rise	10394 Sep 07 19:05	10°Mp02'39		max. Earth dist.	10400 Nov 08 02:05		10.37967 AU
retrograde	10394 Dec 21 15:03	17° To 42'10		morning rise	10400 Nov 25 22:53	27° <b>M</b> .14'33	
opposition	10395 Mar 01 08:30	14° m 16'58			10400 Dec 19 11:03	0° <b>∡</b> ¹	
min. Earth dist.	10395 Mar 01 00:58	14° Mp 18'26	8.58495 AU	retrograde	10401 Mar 10 05:00	5°×705'10	1057142
direct evening set	10395 May 08 09:30 10395 Aug 17 00:08	10° mp 55'24 18° mp 19'43		opposition min. Earth dist.	10401 May 17 01:56 10401 May 17 03:19	1° <b>х</b> <sup>7</sup> 39'22 1° <b>х</b> 739'05	1°57'43 8.36874 AU
evening set	10393 Aug 17 00.08	18 11/1943		iiiii. Eartii tiist.	10401 May 17 03.19 10401 Jun 07 15:21	1 <b>x</b> ⋅3903	6.308/4 AU
conjunction	10395 Sep 03 09:10	20° m 27'16	-0°30'25	direct	10401 Jul 23 18:52	28°M13'46	
minimum elong	10395 Sep 03 09:12	20° m) 27'16		univer	10401 Sep 07 02:41	0° <b>₹</b>	
max. Earth dist.	10395 Sep 03 18:22	-	10.56397 AU	evening set	10401 Nov 04 07:39	6° <b>∡</b> ¹01'56	
morning rise	10395 Sep 20 21:35	22° m/35'50		Ü			
	10395 Dec 16 02:22	0∘ <b>⊽</b>		conjunction	10401 Nov 22 02:54	8° <b>∡</b> 15′04	1°41'41
retrograde	10396 Jan 03 21:49	0° <b>ჲ</b> 18′06		minimum elong	10401 Nov 22 02:51	8° <b>≯</b> 15'03	1°42'08
	10396 Jan 22 18:16	30°₽.₩		max. Earth dist.	10401 Nov 21 23:30	8° <b>∡</b> 14′00	10.35763 AU
opposition	10396 Mar 13 07:32	26° Mp 52'29		morning rise	10401 Dec 09 22:04	10° <b>∡</b> °28′15	
min. Earth dist.	10396 Mar 13 00:17	26° m 53'54	8.54280 AU	retrograde	10402 Mar 23 19:34	18° <b>∡</b> 18'51	
direct	10396 May 20 02:55	23° m/30'24		opposition	10402 May 30 10:03	14° <b>₹</b> 53'24	
	10396 Aug 20 22:53	0° <b>⊽</b>		min. Earth dist.	10402 May 30 13:18	14° 🗷 52'45	8.35072 AU
evening set	10396 Aug 29 01:12	0° <b>ჲ</b> 58'01		direct	10402 Aug 06 05:50	11° <b>x</b> <sup>7</sup> 27'12	
agniumation	10206 San 15 12:15	20000054	0°05!24	evening set	10402 Nov 18 09:03	19° <b>∡</b> 18'44	
conjunction minimum elong	10396 Sep 15 13:15 10396 Sep 15 13:15	3° <b>£</b> 06'54 3° <b>£</b> 06'54		conjunction	10402 Dec 06 04:00	21° <b>∡</b> '32'04	1°51'08
behind sun begin	10396 Sep 15 15:15 10396 Sep 15 06:18	3° <b>£</b> 06'34 3° <b>£</b> 04'47	0 03 24	minimum elong	10402 Dec 06 04:00 10402 Dec 06 03:59	21° <b>x</b> '32'04 21° <b>x</b> '32'03	1°51'08 1°51'37
behind sun end	10396 Sep 15 00:18	3° <b>⊆</b> 0447		max. Earth dist.	10402 Dec 00 03:39 10402 Dec 05 22:06		10.34360 AU
max. Earth dist.	10396 Sep 15 20:12 10396 Sep 15 21:32		10.52169 AU	morning rise	10402 Dec 03 22:00 10402 Dec 23 22:07	23° <b>x</b> <sup>7</sup> 45'12	10.5 1500 AU
morning rise	10396 Oct 03 04:26	5° <b>£</b> 16'46			10403 Feb 22 18:03	0°る	
asc. node	10396 Dec 04 01:54	11° <b>≏</b> 28'52		retrograde	10403 Apr 06 10:47	1°る35'02	
				*	-		

	1040234 10 16 20	200- 3			1010031 05 15 55	1201/25126	
	10403 May 19 16:39	30°Ŗ <b>⋌</b> ¹		direct	10409 Nov 07 17:57	13° <b>¥</b> 25′26	
opposition	10403 Jun 12 19:24	28° <b>∡</b> 10′03	2°21'00	evening set	10410 Feb 20 18:07	21° <b>∺</b> 10'51	
min. Earth dist.	10403 Jun 13 00:34	28° <b>₮</b> 09'01	8.34160 AU				
direct	10403 Aug 19 18:52	24° <b>∡</b> ¹43′20		conjunction	10410 Mar 10 02:30	23° <b>¥</b> 19′28	0°25'03
	10403 Nov 10 07:02	0°₹		minimum elong	10410 Mar 10 02:31	23° <b>¥</b> 19'28	0°25'09
evening set	10403 Dec 02 11:12	。3 2° <b>る</b> 37'21		max. Earth dist.	10410 Mar 09 18:27		10.50835 AU
evening set	10403 DCC 02 11.12	2 03/21					10.30633 AU
				morning rise	10410 Mar 27 07:40	25° <b>)</b> €27'07	
conjunction	10403 Dec 20 05:28	4° <b>る</b> 50'38	1°54'39		10410 May 07 19:33	0° <b>Υ</b>	
minimum elong	10403 Dec 20 05:28	4° <b>る</b> 50'38	1°55'09	retrograde	10410 Jul 06 05:00	2° <b>Y</b> 56'11	
max. Earth dist.	10403 Dec 19 21:16	4° <b>る</b> 48'03	10.33944 AU		10410 Sep 06 21:34	30°₽ <b>)</b>	
morning rise	10404 Jan 06 22:19	7° <b>る</b> 03'32		opposition	10410 Sep 12 07:27	29° <b>)</b> 34'51	0°15'38
retrograde	10404 Apr 18 23:05	14° <b>⋜</b> 51'41		min. Earth dist.	10410 Sep 12 13:21	29° <b>)</b> 33'42	8.53131 AU
opposition	10404 Jun 25 05:23	11° <b>る</b> 27'15	2021/36	direct	10410 Nov 21 03:38	26° <b>\</b> 09'19	0.00101110
				direct		0° <b>Υ</b>	
min. Earth dist.	10404 Jun 25 12:17	11°る25'52	8.34276 AU		10411 Jan 30 12:45		
direct	10404 Sep 01 11:52	8° <b>ප</b> 00'09		evening set	10411 Mar 05 19:47	3° <b>Y</b> ′50'46	
evening set	10404 Dec 15 12:38	15° <b>る</b> 55'32		desc. node	10411 Mar 20 09:48	5° <b>Ƴ</b> 38'20	
conjunction	10405 Jan 02 05:58	18° <b>る</b> 08'33	1°52'04	conjunction	10411 Mar 23 01:39	5° <b>Ƴ</b> 58'07	-0°00'11
minimum elong	10405 Jan 02 05:59	18° <b>ろ</b> 08'33	1°52'33	minimum elong	10411 Mar 23 01:37	5° <b>Y</b> ′58'07	
_				2		5° <b>Υ</b> 55'57	0 00 11
max. Earth dist.	10405 Jan 01 20:00		10.34593 AU	behind sun begin	10411 Mar 22 18:34		
morning rise	10405 Jan 19 21:19	20° <b>る</b> 20'58		behind sun end	10411 Mar 23 08:40	6° <b>Y</b> ′00′16	
retrograde	10405 May 02 09:18	28° <b>පි</b> 06'41		max. Earth dist.	10411 Mar 22 19:02	5° <b>Y</b> 56′06	10.55446 AU
opposition	10405 Jul 08 15:43	24°₹42'50	2°14'40	morning rise	10411 Apr 09 04:32	8° <b>Ƴ</b> 04'35	
min. Earth dist.	10405 Jul 08 23:29	24° <b>පි</b> 41'16	8.35440 AU	retrograde	10411 Jul 18 24:00	15° <b>Y</b> '31'02	
		21°る15'33	0.55440 AC	-		13° <b>γ</b> 31'02	0015122
direct	10405 Sep 15 05:49			opposition	10411 Sep 25 10:56		
evening set	10405 Dec 29 11:55	29° <b>る</b> 11'00		min. Earth dist.	10411 Sep 25 15:01		8.57739 AU
	10406 Jan 05 02:01	0° <b>≈</b>		direct	10411 Dec 04 11:49	8° <b>Ƴ</b> 45'17	
				evening set	10412 Mar 17 16:58	16° <b>Y</b> 22'41	
conjunction	10406 Jan 16 04:02	1° <b>≈</b> 23'30	1°43'33	C			
minimum elong	10406 Jan 16 04:04	1°≈23'31	1°44'00	conjunction	10412 Apr 03 20:13	18° <b>Ƴ</b> 28'44	0°25'00
Č				3	•		
max. Earth dist.	10406 Jan 15 17:38	1° <b>≈</b> 20′14	10.36284 AU	minimum elong	10412 Apr 03 20:12	18° <b>Y</b> ′28'44	
morning rise	10406 Feb 02 17:36	3° <b>≈</b> 35'14		max. Earth dist.	10412 Apr 03 15:58	18° <b>Y</b> °27′26	10.59997 AU
retrograde	10406 May 15 18:23	11° <b>≈</b> 17'57		morning rise	10412 Apr 20 20:45	20° <b>Ƴ</b> 34'01	
opposition	10406 Jul 22 01:46	7° <b>≈</b> 54'39	2°00'38	retrograde	10412 Jul 30 18:58	27° <b>Y</b> ′58′27	
min. Earth dist.	10406 Jul 22 09:23	7°≈53'08	8.37594 AU	opposition	10412 Oct 07 12:41	24° <b>Y</b> '37'42	0°45'40
			6.37394 AU	**			
direct	10406 Sep 28 22:53	4° <b>≈</b> 27'24		min. Earth dist.	10412 Oct 07 14:37	24° <b>Y</b> 37'20	8.62186 AU
evening set	10407 Jan 12 07:57	12° <b>≈</b> 21'41		direct	10412 Dec 16 15:30	21° <b>Y</b> 13'51	
				evening set	10413 Mar 30 09:58	28° <b>Ƴ</b> 47'16	
conjunction	10407 Jan 29 22:41	14° <b>≈</b> 33'29	1°29'38		10413 Apr 09 09:11	0°B	
minimum elong	10407 Jan 29 22:43	14° <b>≈</b> 33'30	1°30'01		1		
max. Earth dist.	10407 Jan 29 12:48			aaniumatian	10/12 Apr 16 10:20	0° <b>8</b> 52'05	0040142
max. Earth dist.			10.38926 AU	conjunction	10413 Apr 16 10:38		
	10407 Feb 02 11:04	15° <b>≈</b>		minimum elong	10413 Apr 16 10:36	0° <b>8</b> 52'05	
morning rise	10407 Feb 16 10:17	16° <b>≈</b> 44′23		max. Earth dist.	10413 Apr 16 08:58	0° <b>8</b> 51'35	10.64269 AU
retrograde	10407 May 29 01:56	24° <b>≈</b> 23'39		morning rise	10413 May 03 08:55	2° <b>8</b> 56'16	
opposition	10407 Aug 04 11:03	21° <b>≈</b> 00'54	1°40'24	retrograde	10413 Aug 12 12:41	10° <b>8</b> 19'21	
min. Earth dist.	10407 Aug 04 18:20	20° <b>≈</b> 59'27	8.40624 AU	opposition	10413 Oct 20 13:03	6° <b>8</b> 58'46	-1°13'22
direct	10407 Oct 12 14:31	20 <b>≈</b> 3927 17° <b>≈</b> 33'50	5502 T /10	min. Earth dist.	10413 Oct 20 13:05	_	8.66269 AU
							8.00209 AU
evening set	10408 Jan 25 23:57	25° <b>≈</b> 25'55		direct	10413 Dec 29 14:57	3° <b>8</b> 35'48	
				evening set	10414 Apr 11 23:08	11° <b>8</b> 05'27	
conjunction	10408 Feb 12 12:58	27° <b>≈</b> 36'49	1°11'10				
minimum elong	10408 Feb 12 13:00	27° <b>≈</b> 36′50	1°11'28	conjunction	10414 Apr 28 21:19	13° <b>8</b> 09'09	-1°09'52
max. Earth dist.	10408 Feb 12 03:51		10.42365 AU	minimum elong	10414 Apr 28 21:17	13° <b>8</b> 09'08	
morning rise	10408 Feb 29 22:29	29° <b>≈</b> 46'44	-02505710	max. Earth dist.	10414 Apr 28 21:17	_	10.68072 AU
morning rise				max. Earth dist.	•		10.08072 AU
	10408 Mar 02 17:53	0° <b>∀</b>			10414 May 14 00:39	15° <b>8</b>	
retrograde	10408 Jun 10 05:35	7° <b>∺</b> 22'25		morning rise	10414 May 15 17:50	15° <b>8</b> 12'24	
opposition	10408 Aug 16 19:19	4° <b>₩</b> 00'11	1°15'10	retrograde	10414 Aug 25 03:39	22° <b>8</b> 34'46	
min. Earth dist.	10408 Aug 17 02:23	3° <b>)</b> € 58'48	8.44353 AU	opposition	10414 Nov 02 11:58	19° <b>8</b> 14'16	-1°37'28
direct	10408 Oct 25 05:28	0° <b>)</b> 33′29		min. Earth dist.	10414 Nov 02 11:09		8.69805 AU
							5.07003 AU
evening set	10409 Feb 07 11:28	8° <b>)</b> €22'32		direct	10415 Jan 11 12:50	15° <b>8</b> 52'07	
				evening set	10415 Apr 24 09:21	23° <b>8</b> 18'24	
conjunction	10409 Feb 24 22:19	10° <b>)</b> 32′21	0°49'14				
minimum elong	10409 Feb 24 22:21	10° <b>)</b> 32′21	0°49'26	conjunction	10415 May 11 05:24	25° <b>8</b> 21'08	-1°27'42
max. Earth dist.	10400 F 1 24 12 47	10° <b>¥</b> 29'41	10.46401 AU	minimum elong	10415 May 11 05:22	25° <b>8</b> 21'08	1°28'05
	10409 Feb 24 13:47						
morning rice	10409 Feb 24 13:47	12°¥41'10		may Farth diet	10415 May 11 06:44	25° <b>∺</b> 21'22	10.71240.411
morning rise	10409 Mar 14 05:40	12° <b>)</b> (41'10		max. Earth dist.	10415 May 11 06:44		10.71240 AU
retrograde	10409 Mar 14 05:40 10409 Jun 23 06:44	20° <b>∺</b> 13′23		max. Earth dist. morning rise	10415 May 28 00:38	27° <b>8</b> 23'38	10.71240 AU
•	10409 Mar 14 05:40		0°46'24			27° <b>8</b> 23'38 0°耳	10.71240 AU
retrograde	10409 Mar 14 05:40 10409 Jun 23 06:44	20° <b>∺</b> 13′23	0°46'24 8.48591 AU		10415 May 28 00:38	27° <b>8</b> 23'38	10.71240 AU

opposition min. Earth dist.	10415 Nov 15 09:26 10415 Nov 15 07:13	1° <b>Ⅱ</b> 25'22 1° <b>Ⅲ</b> 25'47	-1°57'01 8.72636 AU	opposition	10422 Jan 19 00:09 10422 Jan 29 05:13	15°RΩ 14°Ω13'33	-1°51'26
	10415 Dec 04 19:08	30° <b>₹</b> 8	0.72030110	min. Earth dist.	10422 Jan 28 21:20	14° <b>Ω</b> 15′04	8.70353 AU
direct	10416 Jan 24 08:38 10416 Mar 13 04:05	28° <b>8</b> 03'58 0° <b>Ⅱ</b>		direct	10422 Apr 07 20:30 10422 Jun 18 21:04	10° <b>Ω</b> 53'37 15° <b>Ω</b>	
evening set	10416 May 05 17:01	5° <b>Ⅱ</b> 27'18		evening set	10422 Jul 17 06:59	18° <b>Ω</b> 11'36	
conjunction	10416 May 22 11:35	7° <b>Ⅱ</b> 29'20	-1°41'30	conjunction	10422 Aug 03 08:04	20° <b>Ω</b> 15'38	-1°22'31
minimum elong	10416 May 22 11:33	7° <b>Ⅱ</b> 29'19	1°41'57	minimum elong	10422 Aug 03 08:06	20° <b>Ω</b> 15'38	1°22'53
max. Earth dist.	10416 May 22 14:55		10.73643 AU	max. Earth dist.	10422 Aug 03 17:35		10.68515 AU
morning rise	10416 Jun 08 06:00	9° <b>Ⅱ</b> 31'18		morning rise	10422 Aug 20 12:13	22° <b>Ω</b> 20'36	
retrograde	10416 Sep 18 09:28	16° <b>Ⅱ</b> 54'05		retrograde	10422 Dec 03 01:35	29° <b>Ω</b> 55'04	
opposition	10416 Nov 27 05:59	13° <b>Ⅱ</b> 33'21		opposition	10423 Feb 11 00:52	26° <b>Ω</b> 31'17	
min. Earth dist.	10416 Nov 27 01:34		8.74645 AU	min. Earth dist.	10423 Feb 10 16:56		8.66630 AU
direct evening set	10417 Feb 05 01:40 10417 May 17 22:47	10° <b>Ⅲ</b> 12'37 17° <b>Ⅲ</b> 33'28		direct	10423 Apr 20 09:22 10423 Jul 25 13:06	23° <b>Ω</b> 10'58 0° <b>m</b>	
evening set	1041 / May 1 / 22.47	17 ДЗЗ 26		evening set	10423 Jul 29 20:11	0° mp 30'42	
conjunction	10417 Jun 03 16:38	19° <b>Ⅲ</b> 35′03	-1°50'45	evening set	10425 Jul 27 20.11	0 11/30 42	
minimum elong	10417 Jun 03 16:36	19° <b>Ⅲ</b> 35'03		conjunction	10423 Aug 16 00:18	2° m/35'59	-1°03'25
max. Earth dist.	10417 Jun 03 22:43		10.75186 AU	minimum elong	10423 Aug 16 00:20	2° m/36'00	1°03'41
morning rise	10417 Jun 20 10:50	21° <b>Ⅱ</b> 36'47		max. Earth dist.	10423 Aug 16 09:03	•	10.64483 AU
retrograde	10417 Oct 01 01:03	29° <b>Ⅱ</b> 00'37		morning rise	10423 Sep 02 07:49	4° Mp 42'18	
opposition	10417 Dec 10 01:42	25° <b>Ⅲ</b> 39'34	-2°19'35	retrograde	10423 Dec 16 02:54	12° <b>m</b> ) 19'41	
min. Earth dist.	10417 Dec 09 19:23	25° <b>Ⅱ</b> 40'46	8.75749 AU	opposition	10424 Feb 23 21:36	8° <b>m</b> 55'13	-1°04'40
direct	10418 Feb 17 17:09	22° <b>Ⅱ</b> 19′22		min. Earth dist.	10424 Feb 23 14:34	8° <b>m</b> 56'35	8.62289 AU
evening set	10418 May 30 03:46	29° <b>Ⅲ</b> 38′17		direct	10424 May 02 00:19	5° <b>m</b> 34'20	
	10418 Jun 02 04:24	0° <b>©</b>		evening set	10424 Aug 10 13:39	12° Mp 56'32	
conjunction	10418 Jun 15 21:33	1° <b>5</b> 39'44	-1°55'04	conjunction	10424 Aug 27 20:56	15° <b>m</b> 03'13	-0°41'11
minimum elong	10418 Jun 15 21:33	1° <b>5</b> 39'44	1°55'34	minimum elong	10424 Aug 27 20:58	15° <b>m</b> 03'13	0°41'22
max. Earth dist.	10418 Jun 16 05:20	1°5642'06	10.75804 AU	max. Earth dist.	10424 Aug 28 04:14	15° <b>m</b> 05'27	10.59964 AU
morning rise	10418 Jul 02 16:22	3° <b>5</b> 641'31		morning rise	10424 Sep 14 07:53	17° <b>m</b> 10'57	
retrograde	10418 Oct 13 18:33	11°906'45		retrograde	10424 Dec 28 07:09	24° <b>m</b> 51'12	
opposition	10418 Dec 22 20:41	7° <b>©</b> 45'21		opposition	10425 Mar 07 19:31	21° m/26'06	
min. Earth dist.	10418 Dec 22 13:29	7°546'43	8.75898 AU	min. Earth dist.	10425 Mar 07 13:51	21° m, 27'13	8.57593 AU
direct evening set	10419 Mar 02 05:50	4°925'30 11°943'06		direct	10425 May 14 16:43	18° Mp 04'30 25° Mp 29'52	
evening set	10419 Jun 11 08:41	11 943 00		evening set	10425 Aug 23 11:50	23 111/2932	
conjunction	10419 Jun 28 03:06	13°5544'44	-1°54'18	conjunction	10425 Sep 09 22:20	27° <b>m</b> 37'57	-0°16'48
minimum elong	10419 Jun 28 03:07	13° <b>5</b> 544'44	1°54'48	minimum elong	10425 Sep 09 22:20	27° <b>m</b> 37'57	0°16'52
max. Earth dist.	10419 Jun 28 11:18	13°9647'14	10.75463 AU	max. Earth dist.	10425 Sep 10 04:26		10.55193 AU
morning rise	10419 Jul 14 23:24	15° <b>©</b> 46'54		morning rise	10425 Sep 27 12:22	29° <b>m</b> 47'05	
retrograde	10419 Oct 26 11:00	23°S13'55	2015140		10425 Sep 29 07:20	0° <b>⊽</b>	
opposition	10420 Jan 04 15:32	19°952'02		retrograde	10426 Jan 10 12:05	7° <b>2</b> 30'06	0904153
min. Earth dist. direct	10420 Jan 04 08:16	19°933'24 16°932'20	8.75058 AU	opposition min. Earth dist.	10426 Mar 20 18:49	4° <b>Ω</b> 04'26	8.52770 AU
evening set	10420 Mar 13 18:14 10420 Jun 22 14:08	23°9549'17		asc. node	10426 Mar 20 14:16 10426 May 17 11:58	4 <b>≥</b> 03 20 0° <b>₽</b> 47'26	8.32770 AU
evening set	10420 Juli 22 14.00	23 3717		direct	10426 May 27 12:55	0° <b>-</b> 47′20	
conjunction	10420 Jul 09 10:02	25° <b>©</b> 51'24	-1°48'27	evening set	10426 Sep 05 15:13	8° <b>⊆</b> 11'10	
minimum elong	10420 Jul 09 10:03	25° <b>©</b> 51'25	1°48'56	C	•		
max. Earth dist.	10420 Jul 09 18:34		10.74135 AU	conjunction	10426 Sep 23 04:37	10° <b>≏</b> 20'36	0°08'42
morning rise	10420 Jul 26 08:28	27° <b>9</b> 54'14		minimum elong	10426 Sep 23 04:36	10° <b>≏</b> 20'36	0°08'45
	10420 Aug 13 13:05	$0^{\circ}\Omega$		behind sun begin	10426 Sep 22 22:24	10° <b>≙</b> 18'41	
retrograde	10420 Nov 07 04:42	5° <b>£</b> 23′26		behind sun end	10426 Sep 23 10:49	10° <b>£</b> 22'30	
opposition	10421 Jan 16 10:20	2° <b>Ω</b> 00'57		max. Earth dist.	10426 Sep 23 09:54		10.50390 AU
min. Earth dist.	10421 Jan 16 02:47		8.73208 AU	morning rise	10426 Oct 10 21:04	12° <b>£</b> 30'58	
direct	10421 Feb 13 21:33	30°R≌		retrograde	10427 Jan 23 19:52	20° <b>£</b> 16'35	0026120
direct	10421 Mar 26 08:01 10421 May 04 17:42	28° <b>©</b> 41'13 0° <b>Ω</b>		opposition min. Earth dist.	10427 Apr 02 19:35 10427 Apr 02 15:47	16° <b>♀</b> 50'28 16° <b>♀</b> 51'13	0°26'38 8.48044 AU
evening set	10421 May 04 17:42 10421 Jul 04 21:15	5° <b>Ω</b> 58'15		min. Earth dist.	10427 Apr 02 15:47 10427 Jun 09 11:42	16° <b>2</b> 251′13	0.40U44 AU
evening set	10721 Jul 07 21.13	5 <b>0 6</b> 5 6 1 5		evening set	10427 Sep 18 23:53	21° <b>£</b> 00'32	
conjunction	10421 Jul 21 19:28	8° <b>Ω</b> 01'12					
minimum elong	10421 Jul 21 19:31	8° <b>Ω</b> 01'13		conjunction	10427 Oct 06 15:40	23° <b>≏</b> 11'12	0°33'54
max. Earth dist.	10421 Jul 22 04:43		10.71799 AU	minimum elong	10427 Oct 06 15:39	23° <b>£</b> 11'12	
morning rise	10421 Aug 07 20:34	10° <b>Ω</b> 04'59		max. Earth dist.	10427 Oct 06 19:44		10.45787 AU
ratro a J-	10421 Sep 23 12:42	15° <b>Ω</b>		morning rise	10427 Oct 24 09:55	25° <b>£</b> 22'41	
retrograde	10421 Nov 20 02:29	17° <b>Ω</b> 36'41			10427 Dec 05 11:33	0° <b>M</b>	

retrograde	10428 Feb 06 07:11	3°M10'32		retrograde	10434 Apr 26 14:00	22° <b>る</b> 16'33	
retrograde	10428 Apr 11 14:12	30°R <u>Ω</u>		opposition	10434 Jul 02 20:26	18°る52'00	2°18'48
opposition	10428 Apr 14 22:09	29° <b>£</b> 44'06	0°57'08	min. Earth dist.	10434 Jul 03 02:20	18° <b>る</b> 50'49	8.33879 AU
min. Earth dist.	10428 Apr 14 19:28	29° <b>Ω</b> 44'38	8.43646 AU	direct	10434 Sep 09 06:35	15° <b>る</b> 24'29	0.55079110
direct	10428 Jun 21 11:51	26° <b>£</b> 19'56		evening set	10434 Dec 23 10:22	23° <b>る</b> 20'14	
	10428 Aug 27 09:29	0°M		844			
evening set	10428 Oct 01 13:37	3°M57'45		conjunction	10435 Jan 10 03:15	25° <b>る</b> 33'07	1°48'09
<i>8</i>				minimum elong	10435 Jan 10 03:17	25° <b>ට</b> 33'07	1°48'37
conjunction	10428 Oct 19 07:07	6°M09'27	0°57'38	max. Earth dist.	10435 Jan 09 18:51	25° <b>る</b> 30'28	10.34623 AU
minimum elong	10428 Oct 19 07:05	6°M09'27	0°57'54	morning rise	10435 Jan 27 17:36	27° <b>る</b> 45'16	
max. Earth dist.	10428 Oct 19 08:54	6°M10'01	10.41606 AU	-	10435 Feb 15 13:18	0° <b>≈</b>	
morning rise	10428 Nov 06 02:33	8°M21'49		retrograde	10435 May 10 01:20	5° <b>≈</b> 29'47	
	10429 Jan 12 13:28	15°M		opposition	10435 Jul 16 06:52	2° <b>≈</b> 06'00	2°07'54
retrograde	10429 Feb 18 20:03	16°M11'22		min. Earth dist.	10435 Jul 16 13:54	2° <b>≈</b> 04'36	8.35866 AU
	10429 Mar 28 07:52	15°RM			10435 Aug 13 14:36	30°ೀರ	
opposition	10429 Apr 28 02:28	12°M44'49	1°25'01	direct	10435 Sep 22 22:49	28° <b>る</b> 38'36	
min. Earth dist.	10429 Apr 28 01:45	12°M44'58	8.39780 AU		10435 Nov 01 22:16	0° <b>≈</b>	
direct	10429 Jul 04 15:40	9° <b>M</b> 19'45		evening set	10436 Jan 06 08:21	6° <b>≈</b> 33'51	
	10429 Sep 28 04:48	15°M					
evening set	10429 Oct 15 08:02	17°M02'08		conjunction	10436 Jan 23 23:48	8° <b>≈</b> 46'06	1°36'36
				minimum elong	10436 Jan 23 23:50	8° <b>≈</b> 46'06	1°37'01
conjunction	10429 Nov 02 02:35	19°M14'38	1°18'34	max. Earth dist.	10436 Jan 23 14:17	8° <b>≈</b> 43'06	10.37130 AU
minimum elong	10429 Nov 02 02:32	19° <b>™</b> 14'37	1°18'56	morning rise	10436 Feb 10 12:24	10° <b>≈</b> 57'30	
max. Earth dist.	10429 Nov 02 01:30	19° <b>M</b> 14'18	10.38044 AU		10436 Mar 17 02:06	15° <b>≈</b>	
morning rise	10429 Nov 19 22:28	21°M27'35		retrograde	10436 May 22 09:27	18° <b>≈</b> 38'44	
retrograde	10430 Mar 04 08:25	29°M18'13		opposition	10436 Jul 28 16:47	15° <b>≈</b> 15'45	1°50'19
opposition	10430 May 11 08:23	25°M51'45	1°48'42	min. Earth dist.	10436 Jul 29 00:22	15° <b>≈</b> 14'15	8.38807 AU
min. Earth dist.	10430 May 11 09:54	25°M51'27	8.36635 AU		10436 Aug 01 00:12	15° <b>R</b> ≈	
direct	10430 Jul 17 23:54	22°M25'52		direct	10436 Oct 05 15:53	11° <b>≈</b> 48′39	
	10430 Oct 27 13:07	0°⊀			10436 Dec 07 15:22	15° <b>≈</b>	
evening set	10430 Oct 29 06:00	0° <b>≯</b> 12'31		evening set	10437 Jan 19 02:52	19° <b>≈</b> 42'17	
conjunction	10430 Nov 16 01:02	2° <b>₹</b> 25'35	1°35'32	conjunction	10437 Feb 05 16:37	21° <b>≈</b> 53'41	1°20'04
minimum elong	10430 Nov 16 01:00	2° <b>×</b> <sup>2</sup> 5'34	1°35'58	minimum elong	10437 Feb 05 16:39	21°≈53'42	1°20'25
max. Earth dist.	10430 Nov 15 21:22		10.35290 AU	max. Earth dist.	10437 Feb 05 16:55	21°≈50'38	10.40523 AU
morning rise	10430 Dec 03 20:44	4°×738'51	10.55250710	morning rise	10437 Feb 23 03:18	24°≈04'10	10.10323710
retrograde	10431 Mar 17 21:54	12° <b>₹</b> 29'51		8	10437 Apr 21 11:28	0° <b>∀</b>	
opposition	10431 May 24 15:53	9° <b>×</b> 03'38	2°06'48	retrograde	10437 Jun 04 13:52	1° <b>)</b> (41'53	
min. Earth dist.	10431 May 24 19:07	9° <b>х</b> 02′59	8.34378 AU	8	10437 Jul 19 21:12	30°R≈	
direct	10431 Jul 31 10:36	5° <b>∡</b> ³37'03		opposition	10437 Aug 11 02:02	28° <b>≈</b> 19'39	1°27'10
evening set	10431 Nov 12 06:22	13° <b>₹</b> 27'23		min. Earth dist.	10437 Aug 11 09:13	28°≈18'14	8.42541 AU
C				direct	10437 Oct 19 09:14	24°≈53'02	
conjunction	10431 Nov 30 01:29	15° <b>∡</b> ¹40'46	1°47'31		10438 Jan 09 08:32	0° <b>)</b> €	
minimum elong	10431 Nov 30 01:27	15° <b>∡</b> ¹40'46	1°47'59	evening set	10438 Feb 01 16:56	2° <b>)</b> (43'59	
max. Earth dist.	10431 Nov 29 20:11	15° <b>∡</b> ³39'06	10.33497 AU				
morning rise	10431 Dec 17 20:23	17° <b>∡</b> 54′07		conjunction	10438 Feb 19 04:46	4° <b>)</b> 54′22	0°59'33
retrograde	10432 Mar 30 11:57	25° <b>∡</b> ¹44'41		minimum elong	10438 Feb 19 04:48	4° <b>)</b> € 54'23	0°59'48
opposition	10432 Jun 06 00:38	22° <b>҂</b> 18′52	2°18'15	max. Earth dist.	10438 Feb 18 20:01	4° <b>¥</b> 51'38	10.44613 AU
min. Earth dist.	10432 Jun 06 04:49	22° <b>∡</b> 18′01	8.33127 AU	morning rise	10438 Mar 08 13:18	7° <b>₩</b> 03'46	
direct	10432 Aug 12 23:40	18° <b>∡</b> 51'46		retrograde	10438 Jun 17 17:36	14° <b>)</b> 37′59	
evening set	10432 Nov 25 08:13	26° <b>х</b> 44′59		opposition	10438 Aug 24 10:04	11° <b>) (</b> 16′23	0°59'47
				min. Earth dist.	10438 Aug 24 16:03	11° <b>) (</b> 15′13	8.46867 AU
conjunction	10432 Dec 13 03:00	28° <b>₹</b> 58'26	1°53'48	direct	10438 Nov 01 22:56	7° <b>)</b> € 50′23	
minimum elong	10432 Dec 13 02:59	28° <b>≯</b> 58′26	1°54'18	evening set	10439 Feb 15 02:24	15° <b>)</b> €37'53	
max. Earth dist.	10432 Dec 12 20:31		10.32763 AU				
	10432 Dec 21 06:36	0°రె		conjunction	10439 Mar 04 12:05	17° <b>)</b> 47′07	0°36'12
morning rise	10432 Dec 30 20:36	1° <b>る</b> 11'36		minimum elong	10439 Mar 04 12:06	17° <b>)</b> 47′08	0°36'22
retrograde	10433 Apr 13 01:12	9° <b>る</b> 00'52		max. Earth dist.	10439 Mar 04 05:01		10.49172 AU
opposition	10433 Jun 19 10:09	5° <b>る</b> 35'37		morning rise	10439 Mar 21 18:17	19° <b>)</b> 55′21	
min. Earth dist.	10433 Jun 19 15:10		8.32953 AU	retrograde	10439 Jun 30 18:41	27° <b>)</b> (26'11	
direct	10433 Aug 26 14:55	2° <b>る</b> 08'12		opposition	10439 Sep 06 16:28	24° <b>)</b> €05'06	0°29'43
evening set	10433 Dec 09 10:03	10° <b>る</b> 03'18		min. Earth dist.	10439 Sep 06 21:34	24° <b>)</b> €04'07	8.51539 AU
	10.122 =	1007	105405	direct	10439 Nov 15 09:37	20° <b>)</b> (39'48	
conjunction	10433 Dec 27 04:04	12°₹16'34		evening set	10440 Feb 28 07:05	28° <b>)</b> €23'23	
minimum elong	10433 Dec 27 04:04	12°る16'34			10440 Mar 12 09:15	$0$ ° $\Upsilon$	
max. Earth dist.	10433 Dec 26 20:38		10.33141 AU		1044034 - 15 - 11	0000	0011110
morning rise	10434 Jan 13 20:05	14° <b>る</b> 29'19		conjunction	10440 Mar 16 14:17	0° <b>Ƴ</b> 31'21	0~11'19

max. Earth dist.

morning rise

retrograde

opposition

10445 May 17 13:03

10445 Jun 03 05:47

10445 Sep 13 06:44

10445 Nov 21 23:03

2°**I**25'27 10.71510 AU

8°**Ⅲ**29'51 -2°05'37

4°**Ⅲ**27'14

11°**II**50'36

max. Earth dist.

morning rise

retrograde

opposition

10451 Jul 29 17:28

10451 Aug 15 11:30

10451 Nov 27 21:08

10452 Feb 05 22:54

15°**Ω**20'28 10.67033 AU

21°**Ω**32'45 -1°39'52

17°**Ω**22'32

24°Ω56'58

min. Earth dist.	10452 Feb 05 15:10	210 024114	8.65460 AU	annagition	10459 Apr. 22 00:45	7°M38'02	1912/40
			8.03400 AU	opposition	10458 Apr 23 00:45		
direct	10452 Apr 14 09:49	18° <b>Ω</b> 11'53		min. Earth dist.	10458 Apr 22 22:34	7°M38'28	8.41675 AU
evening set	10452 Jul 23 20:47	25° <b>Ω</b> 31'57		direct	10458 Jun 29 13:39	4°M13'47	
				evening set	10458 Oct 10 00:05	11°M54'33	
conjunction	10452 Aug 09 23:38	27° <b>Ω</b> 37'01					
minimum elong	10452 Aug 09 23:40	27° <b>Ω</b> 37'01		conjunction	10458 Oct 27 18:16	14° <b>™</b> 06'44	1°10'15
max. Earth dist.	10452 Aug 10 08:58		10.63613 AU	minimum elong	10458 Oct 27 18:14	14°M06'43	1°10'35
morning rise	10452 Aug 27 05:56	29° <b>Ω</b> 43'04		max. Earth dist.	10458 Oct 27 20:07		10.40077 AU
	10452 Aug 29 14:36	0° <b>m</b> ∕			10458 Nov 03 20:50	15° <b>M</b>	
retrograde	10452 Dec 09 21:48	7° <b>m</b> ,20'19		morning rise	10458 Nov 14 14:00	16° <b>™</b> 19'27	
opposition	10453 Feb 17 19:52	3° My 55'29	-1°15'57	retrograde	10459 Feb 27 03:12	24° <b>™</b> 09'53	
min. Earth dist.	10453 Feb 17 12:02	3° <b>m</b> 57'01	8.61749 AU	opposition	10459 May 06 06:27	20°M43'51	1°39'22
direct	10453 Apr 27 01:50	0° <b>m</b> ∕34'17		min. Earth dist.	10459 May 06 05:36	20°M44'01	8.38741 AU
evening set	10453 Aug 05 12:56	7° Mp 56′23		direct	10459 Jul 12 21:05	17° <b>M</b> ₊18'53	
				evening set	10459 Oct 23 21:04	25°M03'44	
conjunction	10453 Aug 22 19:07	10° <b>m</b> 02'45	-0°50'51				
minimum elong	10453 Aug 22 19:09	10° M 02'46	0°51'05	conjunction	10459 Nov 10 16:01	27° <b>M</b> 16'31	1°28'58
max. Earth dist.	10453 Aug 23 04:55	10° Mp 05'46	10.59715 AU	minimum elong	10459 Nov 10 15:59	27°M16'31	1°29'23
morning rise	10453 Sep 09 04:41	12° Mp 10'10		max. Earth dist.	10459 Nov 10 15:42	27°M16'25	10.37439 AU
retrograde	10453 Dec 23 02:16	19° m 50'12		morning rise	10459 Nov 28 11:39	29°M29'35	
opposition	10454 Mar 02 17:43	16° Mp 24'52	-0°48'15	C	10459 Dec 02 15:27	0° <b>∡</b> ¹	
min. Earth dist.	10454 Mar 02 09:50	16° Mp 26'25	8.57655 AU	retrograde	10460 Mar 11 18:00	7° <b>∡</b> ¹20'26	
direct	10454 May 09 17:32	13° Mp 03'12		opposition	10460 May 18 13:30	3° <b>х</b> 54'37	1°59'53
evening set	10454 Aug 18 09:46	20° m) 28'05		min. Earth dist.	10460 May 18 14:31	3° <b>х</b> 54′25	8.36479 AU
evening sec	10.01.1148 10 03.10	20 1420 02		direct	10460 Jul 25 05:37	0° <b>x</b> <sup>7</sup> 28'56	0.501,7110
conjunction	10454 Sep 04 19:07	22° m 35'49	-0°27'12	evening set	10460 Nov 05 20:54	8° <b>х</b> 17′30	
minimum elong	10454 Sep 04 19:08	22° m 35'50	0°27'19	evening set	104001107 03 20.34	0 × 1730	
max. Earth dist.	10454 Sep 05 04:09		10.55525 AU	conjunction	10460 Nov 23 16:02	10° <b>₹</b> 30'40	1°43'05
morning rise	10454 Sep 22 07:48	24° Mp 44'36	10.55525 AO	minimum elong	10460 Nov 23 16:00	10 × 30 40 10° × 30'40	1°43'33
morning rise		0° <b>∵</b>		max. Earth dist.	10460 Nov 23 12:39		1 43 33 10.35495 AU
	10454 Nov 11 02:37	0° <b>±</b> 2° <b>2</b> 27'21					10.33493 AU
retrograde	10455 Jan 05 08:33			morning rise	10460 Dec 11 11:06	12° <b>x</b> <sup>7</sup> 43'52	
• • •	10455 Mar 03 03:32	30°R, Mp	0017157	retrograde	10461 Mar 25 08:52	20° <b>∡</b> ³34′26	201.4100
opposition	10455 Mar 15 17:05	29° m 01'39		opposition	10461 May 31 21:51	17° <b>∡</b> *09'00	2°14'08
min. Earth dist.	10455 Mar 15 10:04	29° m 03'01	8.53383 AU	min. Earth dist.	10461 Jun 01 01:25	17° <b>∡</b> *08'17	8.34925 AU
direct	10455 May 22 11:29	25° m/39'26		direct	10461 Aug 07 17:11	13° <b>∡</b> ′42'42	
	10455 Aug 04 02:51	0∘ <b>ত</b>		evening set	10461 Nov 19 22:30	21° <b>∡</b> ³34′29	
evening set	10455 Aug 31 11:32	3° <b>≏</b> 07'43					
				conjunction	10461 Dec 07 17:16	23° <b>∡</b> ⁴47'47	1°51'45
conjunction	10455 Sep 17 23:44	5° <b>≏</b> 16'47		minimum elong	10461 Dec 07 17:15	23° <b>∡</b> ¹47'47	
minimum elong	10455 Sep 17 23:44	5° <b>≏</b> 16'47	0°02'04	max. Earth dist.	10461 Dec 07 10:40		10.34312 AU
behind sun begin	10455 Sep 17 16:32	5° <b>≏</b> 14'35		morning rise	10461 Dec 25 11:20	26° <b>∡</b> ¹00'55	
behind sun end	10455 Sep 18 06:57	5° <b>≙</b> 18'59			10462 Jan 29 09:12	0°₹	
max. Earth dist.	10455 Sep 18 07:05	5° <b>≏</b> 19'02	10.51258 AU	retrograde	10462 Apr 07 22:14	3° <b>る</b> 50'31	
morning rise	10455 Oct 05 15:14	7° <b>£</b> 26'50		opposition	10462 Jun 14 07:14	0° <b>る</b> 25'36	2°21'17
asc. node	10455 Oct 18 01:50	8° <b>≏</b> 55'22		min. Earth dist.	10462 Jun 14 12:56	0° <b>る</b> 24'27	8.34200 AU
retrograde	10456 Jan 18 16:31	15° <b>≏</b> 12'11			10462 Jun 19 14:55	30°₽ <b>⋌</b>	
opposition	10456 Mar 27 18:05	11° <b>≏</b> 46'12	0°13'33	direct	10462 Aug 21 08:20	26° <b>∡</b> ¹58'49	
min. Earth dist.	10456 Mar 27 12:40	11° <b>≏</b> 47'16	8.49157 AU		10462 Oct 20 20:42	8°0	
direct	10456 Jun 03 09:16	8° <b>ഫ</b> 23'21		evening set	10462 Dec 04 00:29	4° <b>る</b> 52'58	
evening set	10456 Sep 12 18:43	15° <b>≏</b> 55'34					
				conjunction	10462 Dec 21 18:37	7° <b>る</b> 06'12	1°54'28
conjunction	10456 Sep 30 09:25	18° <b>≏</b> 05'52	0°23'30	minimum elong	10462 Dec 21 18:37	7° <b>る</b> 06'12	1°54'59
minimum elong	10456 Sep 30 09:24	18° <b>≏</b> 05'51	0°23'37	max. Earth dist.	10462 Dec 21 09:54	7° <b>る</b> 03'27	10.34054 AU
max. Earth dist.	10456 Sep 30 14:37	18° <b>≏</b> 07'28	10.47135 AU	morning rise	10463 Jan 08 11:23	9° <b>ප</b> 19'02	
morning rise	10456 Oct 18 03:10	20° <b>£</b> 17'03		retrograde	10463 Apr 21 09:51	17° <b>る</b> 06'56	
retrograde	10457 Jan 31 02:55	28° <b>≏</b> 04'36		opposition	10463 Jun 27 17:16	13° <b>る</b> 42'33	2°20'52
opposition	10457 Apr 09 20:35	24° <b>Ω</b> 38'30	0°44'40	min. Earth dist.	10463 Jun 28 00:10	13° <b>る</b> 41'10	8.34449 AU
min. Earth dist.	10457 Apr 09 17:03	24° <b>Ω</b> 39'12	8.45195 AU	direct	10463 Sep 04 01:07	10° <b>ට</b> 15'28	0.5
direct	10457 Jun 16 09:32	21° <b>⊆</b> 14'57	5 175 110	evening set	10463 Dec 18 01:33	18° <b>පි</b> 10'48	
evening set	10457 Sep 26 07:05	21° <b>⊆</b> 1437 28° <b>⊆</b> 51'25		evening set	10-103 Dec 10 01.33	10 01040	
evening set	10457 Sep 26 07.05 10457 Oct 05 14:04	0°M		conjunction	10464 Jan 04 18:50	20° <b>る</b> 23'45	1°51'05
	10437 001 03 14.04	U IIIG		·			
aaniumatiam	10457 Oat 12 22:51	10 <b>m</b> 00146	0040101	minimum elong	10464 Jan 04 18:51	20°る23'46	1°51'34
conjunction	10457 Oct 13 23:51	1°M02'46	0°48'01	max. Earth dist.	10464 Jan 04 09:07		10.34821 AU
minimum elong	10457 Oct 13 23:50	1°M02'46	0°48'15	morning rise	10464 Jan 22 10:02	22° <b>る</b> 36'06	
max. Earth dist.	10457 Oct 14 03:20		10.43353 AU		10464 Apr 14 00:19	0°≈	
morning rise	10457 Oct 31 19:01	3°M14'52		retrograde	10464 May 03 21:21	0°≈21'33	
retrograde	10458 Feb 13 14:45	11°M04'09			10464 May 23 21:38	30°₹₹	

opposition	10464 Jul 10 03:33	26° <b>る</b> 57'44	2°12'58	morning rise	10470 Apr 10 14:57	10° <b>Y</b> 16′10	
min. Earth dist.	10464 Jul 10 10:45	26° <b>පි</b> 56'18	8.35711 AU	retrograde	10470 Jul 20 11:49	17° <b>Ƴ</b> 42'27	
direct	10464 Sep 16 17:56	23° <b>る</b> 30'30		opposition	10470 Sep 26 22:20	14° <b>Ƴ</b> 21'27	-0°19'41
	10464 Dec 19 04:30	0° <b>≈</b>		min. Earth dist.	10470 Sep 27 01:44	14° <b>Y</b> 20'48	8.58196 AU
evening set	10464 Dec 31 00:36	1°≈25'48		direct	10470 Dec 05 23:13	10° <b>Y</b> 56'51	
evening see	10101 200 31 00.50	1 .0 23 10		evening set	10471 Mar 20 03:25	18° <b>Y</b> 33'48	
agniumation	10465 Jan 17 16:44	3° <b>≈</b> 38'16	1°41'49	evening set	104/1 Widi 20 03.23	10 1 33 40	
conjunction					10471 4 06 06 20	2000020145	0020125
minimum elong	10465 Jan 17 16:46	3°≈38'17	1°42'16	conjunction	10471 Apr 06 06:29	20° <b>Y</b> 39'45	
max. Earth dist.	10465 Jan 17 07:03		10.36599 AU	minimum elong	10471 Apr 06 06:28	20° <b>Y</b> 39'44	0°28'32
morning rise	10465 Feb 04 06:04	5° <b>≈</b> 49'55		max. Earth dist.	10471 Apr 06 03:01		10.60439 AU
retrograde	10465 May 17 06:42	13° <b>≈</b> 32'18		morning rise	10471 Apr 23 06:44	22° <b>Y</b> 44'55	
opposition	10465 Jul 23 13:32	10° <b>≈</b> 09'05	1°58'05		10471 Jul 20 00:07	$9^{\circ}$ 8	
min. Earth dist.	10465 Jul 23 20:46	10° <b>≈</b> 07'38	8.37938 AU	retrograde	10471 Aug 02 06:05	0° <b>8</b> 09'11	
direct	10465 Sep 30 10:42	6° <b>≈</b> 41'54			10471 Aug 15 12:52	30° <b>ŖƳ</b>	
evening set	10466 Jan 13 20:23	14° <b>≈</b> 35'59		opposition	10471 Oct 09 23:51	26° <b>Ƴ</b> 48'27	-0°49'31
	10466 Jan 17 02:19	15° <b>≈</b>		min. Earth dist.	10471 Oct 10 01:45	26° <b>Ƴ</b> 48'05	8.62612 AU
				direct	10471 Dec 19 01:23	23° <b>Y</b> 24'41	
conjunction	10466 Jan 31 11:02	16° <b>≈</b> 47'42	1°27'16		10472 Mar 23 17:51	0° <b>႘</b>	
minimum elong	10466 Jan 31 11:04	16°≈47'43	1°27'39	evening set	10472 Mar 31 20:05	0° <b>8</b> 57'41	
max. Earth dist.	10466 Jan 31 01:35		10.39306 AU	evening sec	101/21/101 51 20:05	0 037 11	
morning rise	10466 Feb 17 22:24	18°≈58'31	10.57500710	conjunction	10472 Apr 17 20:27	3° <b>8</b> 02'23	0°51'40
=				v	•	3° <b>8</b> 02'23	
retrograde	10466 May 30 13:18	26°≈37'28	1025105	minimum elong	10472 Apr 17 20:26	_	
opposition	10466 Aug 05 22:56	23°≈14'49	1°37'07	max. Earth dist.	10472 Apr 17 18:41		10.64669 AU
min. Earth dist.	10466 Aug 06 06:22	23°≈13′21	8.41026 AU	morning rise	10472 May 04 18:36	5° <b>8</b> 06'29	
direct	10466 Oct 14 02:51	19° <b>≈</b> 47'50		retrograde	10472 Aug 13 22:04	12° <b>8</b> 29'25	
evening set	10467 Jan 27 12:00	27° <b>≈</b> 39'38		opposition	10472 Oct 21 24:00	9° <b>8</b> 08'51	-1°16'45
				min. Earth dist.	10472 Oct 22 00:51	9° <b>8</b> 08'41	8.66648 AU
conjunction	10467 Feb 14 00:48	29° <b>≈</b> 50′27	1°08'18	direct	10472 Dec 31 02:03	5° <b>8</b> 45'56	
minimum elong	10467 Feb 14 00:50	29° <b>≈</b> 50′28	1°08'35	evening set	10473 Apr 13 08:54	13° <b>8</b> 15'14	
max. Earth dist.	10467 Feb 13 15:26	29° <b>≈</b> 47'31	10.42796 AU		10473 Apr 27 17:26	15° <b>8</b>	
	10467 Feb 15 07:19	0° <b>)</b> €					
morning rise	10467 Mar 03 10:10	2° <b>₩</b> 00'16		conjunction	10473 Apr 30 06:46	15° <b>8</b> 18'48	-1°12'23
retrograde	10467 Jun 12 17:23	9° <b>)</b> 35'40		minimum elong	10473 Apr 30 06:43	15° <b>8</b> 18'47	1°12'43
opposition	10467 Aug 19 07:10	6° <b>¥</b> 13'32	1°11'22	max. Earth dist.	10473 Apr 30 06:15	15° <b>8</b> 18'39	10.68415 AU
min. Earth dist.	10467 Aug 19 14:44	6° <b>)</b> 12′03	8.44803 AU	morning rise	10473 May 17 03:13	17° <b>8</b> 21'58	
direct	10467 Oct 27 17:05	2°\ 46'55		retrograde	10473 Aug 26 13:45	24° <b>8</b> 44'16	
evening set	10468 Feb 09 23:10	10° <b>)</b> 35'39		opposition	10473 Nov 03 22:41	21° <b>8</b> 23'44	-1°40'15
evening see	10100100 07 25.10	10 7(333)		min. Earth dist.	10473 Nov 03 21:56	_	8.70120 AU
conjunction	10468 Feb 27 09:46	12° <b>)</b> 45′22	0°46'01	direct	10474 Jan 13 00:03	18° <b>8</b> 01'38	0.70120 AC
minimum elong	10468 Feb 27 09:48	12° <b>)</b> (45'23		evening set	10474 Apr 25 18:40	25° <b>8</b> 27'33	
max. Earth dist.	10468 Feb 27 00:34		10.46871 AU	evening set	104/4 Apr 23 16.40	23 02/33	
			10.408/1 AU		1047434 12 14 24	270 - 2011 2	1020141
morning rise	10468 Mar 15 17:03	14° <b>)</b> 54'06		conjunction	10474 May 12 14:34	27° <b>8</b> 30'13	
retrograde	10468 Jun 24 17:27	22° <b>)</b> € 26'01		minimum elong	10474 May 12 14:31	27° <b>8</b> 30'12	
opposition	10468 Aug 31 13:50	19° <b>)</b> €04'21	0°42'16	max. Earth dist.	10474 May 12 16:09		10.71514 AU
min. Earth dist.	10468 Aug 31 20:52	19° <b>)</b> €02'59	8.49068 AU	morning rise	10474 May 29 09:43	29° <b>8</b> 32'38	
direct	10468 Nov 09 06:02	15° <b>)</b> 38′16			10474 Jun 02 05:41	$\Pi$ °0	
evening set	10469 Feb 22 05:26	23° <b>∺</b> 23′20		retrograde	10474 Sep 08 04:00	6° <b>Ⅱ</b> 54'54	
				opposition	10474 Nov 16 19:52	3° <b>Ⅱ</b> 34'17	
conjunction	10469 Mar 11 13:37	25° <b>)</b> €31′50	0°21'39	min. Earth dist.	10474 Nov 16 17:02		8.72872 AU
minimum elong	10469 Mar 11 13:38	25° <b>∺</b> 31'51	0°21'44	direct	10475 Jan 25 18:44	0° <b>Ⅱ</b> 12'55	
max. Earth dist.	10469 Mar 11 05:31	25° <b>)</b> €29′20	10.51319 AU	evening set	10475 May 08 02:00	7° <b>Ⅱ</b> 35'57	
morning rise	10469 Mar 28 18:39	27° <b>)</b> 39′24					
	10469 Apr 17 18:21	$0^{\circ}\mathbf{\Upsilon}$		conjunction	10475 May 24 20:36	9° <b>Ⅱ</b> 37'55	-1°42'52
retrograde	10469 Jul 07 14:48	5° <b>Y</b> ′08'14		minimum elong	10475 May 24 20:34	9° <b>Ⅱ</b> 37'54	1°43'21
opposition	10469 Sep 13 18:58	1° <b>Y</b> 46'57	0°11'24	max. Earth dist.	10475 May 25 00:48		10.73829 AU
min. Earth dist.	10469 Sep 14 00:18	1° <b>Υ</b> 45'55	8.53607 AU	morning rise	10475 Jun 10 14:55	11° <b>∏</b> 39'50	10.75027110
Dartii dist.	10469 Oct 07 23:21	30° <b>₹</b>	3.3300/ AU	retrograde	10475 Sep 20 19:15	11 <b>H</b> 3930 19° <b>H</b> 02'40	
direct	10469 Nov 22 16:47	28° <b>¥</b> 21'32		opposition	10475 Nov 29 16:10	19 <b>H</b> 02 40 15° <b>H</b> 41'51	2012121
uncci		28°π21'32 0°Υ					8.74781 AU
4 1	10470 Jan 06 09:32			min. Earth dist.	10475 Nov 29 11:10		8.74781 AU
desc. node	10470 Jan 29 05:11	1°Υ55'35		direct	10476 Feb 07 12:08	12° <b>Ⅱ</b> 21'08	
evening set	10470 Mar 07 06:38	6° <b>Y</b> 02'36		evening set	10476 May 19 07:39	19° <b>∏</b> 41'44	
		2400			40.4=4-		
conjunction	10470 Mar 24 12:19	8° <b>Y</b> ′09'49		conjunction	10476 Jun 05 01:29	21° <b>Ⅱ</b> 43'17	
minimum elong	10470 Mar 24 12:18	8° <b>Y</b> ′09'49	0°03'41	minimum elong	10476 Jun 05 01:28	21° <b>Ⅱ</b> 43'17	
behind sun begin	10470 Mar 24 05:16	8° <b>Y</b> 07'39		max. Earth dist.	10476 Jun 05 07:49		10.75265 AU
behind sun end	10470 Mar 24 19:21	8° <b>Y</b> 11'58		morning rise	10476 Jun 21 19:41	23° <b>Ⅱ</b> 45′00	
max. Earth dist.	10470 Mar 24 06:32	8° <b>Y</b> 08'03	10.55917 AU		10476 Aug 26 02:49	$0$ $\circ$ $\odot$	

retrograde	10476 Oct 02 12:04	1° <b>©</b> 08'53		max. Earth dist.	10482 Aug 17 17:55		10.64265 AU
	10476 Nov 09 14:46	30°RⅡ		morning rise	10482 Sep 03 18:01	6° <b>™</b> 51'16	
opposition	10476 Dec 11 11:47	27° <b>∏</b> 47'47		retrograde	10482 Dec 17 13:27	14° <b>m</b> 28'45	
min. Earth dist.	10476 Dec 11 05:37		8.75777 AU	opposition	10483 Feb 25 07:24	11° <b>M</b> 04'17	-1°00'54
direct	10477 Feb 19 02:13	24° <b>Ⅱ</b> 27'35		min. Earth dist.	10483 Feb 25 01:09	-•	8.62042 AU
	10477 May 16 05:44	0ა <b>ௐ</b>		direct	10483 May 04 09:19	7° <b>™</b> 43'21	
evening set	10477 May 31 12:34	1° <b>5</b> 946'18		evening set	10483 Aug 12 23:34	15° <b>m</b> 05'47	
conjunction	10477 Jun 17 06:18	3° <b>5</b> 47'45	-1°55'05	conjunction	10483 Aug 30 07:11	17° <b>m</b> 12'34	
minimum elong	10477 Jun 17 06:18		1°55'36	minimum elong	10483 Aug 30 07:12	17° <b>m</b> 12'34	
max. Earth dist.	10477 Jun 17 13:32		10.75782 AU	max. Earth dist.	10483 Aug 30 14:08	-•	10.59692 AU
morning rise	10477 Jul 04 01:19	5° <b>©</b> 49'35		morning rise	10483 Sep 16 18:25	19° <b>m</b> 20'25	
retrograde	10477 Oct 15 03:27	13°9514'54		retrograde	10483 Dec 30 16:36	27° m 00'50	
opposition	10477 Dec 24 06:46	9°553'25		opposition	10484 Mar 09 05:28	23° m 35'44	
min. Earth dist.	10477 Dec 24 00:04	9°554'41	8.75830 AU	min. Earth dist.	10484 Mar 09 00:00	23° Mp 36'48	8.57289 AU
direct	10478 Mar 03 14:39	6°533'32		direct	10484 May 16 03:05	20° Mp 14'06	
evening set	10478 Jun 12 17:20	13° <b>©</b> 51'02		evening set	10484 Aug 24 22:09	27° <b>m</b> 39'47	
conjunction	10478 Jun 29 11:53	15° <b>©</b> 52'42		conjunction	10484 Sep 11 09:00	29° <b>m</b> 47'59	
minimum elong	10478 Jun 29 11:54	15° <b>©</b> 52'42		minimum elong	10484 Sep 11 09:01	29° <b>m</b> 47'59	0°13'31
max. Earth dist.	10478 Jun 29 19:48		10.75356 AU	behind sun begin	10484 Sep 11 05:04	29° Mp 46'47	
morning rise	10478 Jul 16 08:28	17° <b>©</b> 54'56		behind sun end	10484 Sep 11 12:57	29° <b>m</b> 49'12	
retrograde	10478 Oct 27 19:52	25° <b>©</b> 22'07		max. Earth dist.	10484 Sep 11 15:29		10.54863 AU
opposition	10479 Jan 06 01:26	22°500'08			10484 Sep 12 23:58	0∘ <b>ত</b>	
min. Earth dist.	10479 Jan 05 18:11	22°501'31	8.74914 AU	morning rise	10484 Sep 28 23:11	1° <b>Ω</b> 57'13	
direct	10479 Mar 16 04:59	18°5540'24		retrograde	10485 Jan 11 22:38	9° <b>Ω</b> 40'30	
evening set	10479 Jun 24 22:54	25° <b>©</b> 57'19		opposition	10485 Mar 22 04:57	6° <b>Ω</b> 14'49	
. ,.	10470 1 1 11 10 06	270650121	1047107	min. Earth dist.	10485 Mar 22 00:05		8.52416 AU
conjunction	10479 Jul 11 19:06	27°559'31		asc. node	10485 Mar 30 15:15	5° <b>£</b> 35'19 2° <b>£</b> 52'23	
minimum elong max. Earth dist.	10479 Jul 11 19:08 10479 Jul 12 04:17	27°559'32	1°47'36 10.73965 AU	direct	10485 May 28 23:23	2° <b>±</b> 52′23	
morning rise	10479 Jul 12 04.17 10479 Jul 28 17:45	0°Ω02'26	10.73903 AU	evening set	10485 Sep 07 02:11	10 ==21 33	
morning rise	10479 Jul 28 09:36	0°Ω		conjunction	10485 Sep 24 15:51	12° <b>≏</b> 31'29	0°12'01
retrograde	10479 Nov 09 15:23	7° <b>Ω</b> 31'47		minimum elong	10485 Sep 24 15:51	12° <b>⊆</b> 31'28	0°12'06
opposition	10479 Nov 09 13:23	4°Ω09'13	-2°05'25	behind sun begin	10485 Sep 24 11:00	12° <b>⊆</b> 30'00	0 12 00
min. Earth dist.	10480 Jan 18 11:50	4°Ω10'47		behind sun end	10485 Sep 24 20:41	12° <b>⊆</b> 30'00	
direct	10480 Mar 27 17:30	0°Ω49'28	0.75021710	max. Earth dist.	10485 Sep 24 21:19		10.50018 AU
evening set	10480 Jul 06 06:11	8°Ω06'30		morning rise	10485 Oct 12 08:24	14° <b>Ω</b> 41'58	
				retrograde	10486 Jan 25 08:21	22° <b>£</b> 27'49	
conjunction	10480 Jul 23 04:44	10° <b>Ω</b> 09'31	-1°35'47	opposition	10486 Apr 04 05:56	19° <b>≏</b> 01'43	0°30'41
minimum elong	10480 Jul 23 04:46	10° <b>Ω</b> 09'32	1°36'13	min. Earth dist.	10486 Apr 04 02:02	19° <b>Ω</b> 02'29	8.47661 AU
max. Earth dist.	10480 Jul 23 14:43	10° <b>Ω</b> 12'34	10.71611 AU	direct	10486 Jun 10 20:45	15° <b>≏</b> 38'25	
morning rise	10480 Aug 09 06:01	12° <b>Ω</b> 13′24		evening set	10486 Sep 20 11:31	23° <b>≏</b> 12'15	
	10480 Sep 02 16:54	15° <b>Ω</b>					
retrograde	10480 Nov 21 12:32	19° <b>Ω</b> 45'13		conjunction	10486 Oct 08 03:24	25° <b>≏</b> 23'01	0°37'04
opposition	10481 Jan 30 15:00	16° <b>Ω</b> 22'01	-1°48'42	minimum elong	10486 Oct 08 03:22	25° <b>≏</b> 23'00	0°37'15
min. Earth dist.	10481 Jan 30 06:37	16° <b>Ω</b> 23'37	8.70163 AU	max. Earth dist.	10486 Oct 08 06:49	25° <b>≏</b> 24'04	10.45396 AU
	10481 Feb 18 00:49	15°R <b>Ω</b>		morning rise	10486 Oct 25 21:45	27° <b>≏</b> 34'35	
direct	10481 Apr 09 05:10	13° <b>Ω</b> 02'03			10486 Nov 15 14:24	0° <b>™</b>	
	10481 May 27 16:34	15° <b>Ω</b>		retrograde	10487 Feb 07 19:17	5° <b>™</b> 22'39	
evening set	10481 Jul 18 16:09	20° <b>Ω</b> 20′03		opposition	10487 Apr 17 08:51	1°M56'17	
	10401 4 04 17 20	222 02 44 2	1020102	min. Earth dist.	10487 Apr 17 06:44	1°M56'42	8.43259 AU
conjunction	10481 Aug 04 17:28	22° <b>Ω</b> 24'10		t' .	10487 May 13 06:40	30°R <u>Ω</u>	
minimum elong	10481 Aug 04 17:30	22°Ω24'10		direct	10487 Jun 23 22:01	28° <b>Ω</b> 32'04	
max. Earth dist.	10481 Aug 05 02:48		10.68326 AU	avanina aat	10487 Aug 03 22:57	0°M	
morning rise	10481 Aug 21 21:58 10481 Oct 14 17:14	24° <b>Ω</b> 29'14 0° <b>m</b>		evening set	10487 Oct 04 01:43	6° <b>™</b> 10′26	
retrograde	10481 Dec 04 11:55	2° To 03'48		conjunction	10487 Oct 21 19:12	8°M22'13	1°00'28
10110Brade	10481 Dec 04 11:33 10482 Jan 25 15:08	2 11/03 48 30°RΩ		minimum elong	10487 Oct 21 19:12 10487 Oct 21 19:10	8°M22'13	1°00'45
opposition	10482 Feb 12 10:42	28° <b>Ω</b> 39'58	-1°26'55	max. Earth dist.	10487 Oct 21 19:57		10.41228 AU
min. Earth dist.	10482 Feb 12 03:07		8.66426 AU	morning rise	10487 Nov 08 14:44	10°M34'39	-0220710
direct	10482 Apr 21 18:41	25° <b>Ω</b> 19'37		0	10487 Dec 18 08:05	15°M	
	10482 Jul 08 00:13	0° my		retrograde	10488 Feb 21 07:01	18°M24'25	
evening set	10482 Jul 31 05:45	2° m/39'27		opposition	10488 Apr 29 13:31	14° <b>M</b> 57'57	1°28'14
Č		-			10488 Apr 29 03:16	15°RM₊	
conjunction	10482 Aug 17 10:06	4° <b>m</b> 44'50	-1°00'31	min. Earth dist.	10488 Apr 29 13:33	14°M57'56	8.39425 AU
minimum elong	10482 Aug 17 10:08	4° m/44′51	1°00'47	direct	10488 Jul 06 03:20	11°M32'51	

direct evening set	10500 Dec 13 11:32 10501 Mar 27 11:59	18° <b>Υ</b> 04'09 25° <b>Υ</b> 39'05		min. Earth dist. direct	10506 Dec 19 18:47 10507 Feb 27 12:31	4° <b>©</b> 51'13 1° <b>©</b> 29'38	8.73882 AU
		00		evening set	10507 Jun 08 17:59	8° <b>©</b> 48'35	
conjunction	10501 Apr 13 13:28	27° <b>Y</b> 44'19					
minimum elong	10501 Apr 13 13:27	27° <b>Υ</b> 44'18	0°41'33	conjunction	10507 Jun 25 12:21	10°950'25	
max. Earth dist.	10501 Apr 13 09:41		10.63468 AU	minimum elong	10507 Jun 25 12:21	10°950'25	
morning rise	10501 Apr 30 12:40	29° <b>Y</b> 48'52		max. Earth dist.	10507 Jun 25 19:41		10.73373 AU
rotro aro do	10501 May 02 01:40	0° <b>と</b> 7° <b>と</b> 12'29		morning rise	10507 Jul 12 08:07	12°S52'41 20°S20'02	
retrograde	10501 Aug 09 13:57 10501 Oct 17 12:16	3° <b>8</b> 52'16	1004145	retrograde	10507 Oct 23 16:21	20°9520'02 16°957'41	2010/22
opposition min. Earth dist.		3° <b>8</b> 51'56		opposition min. Earth dist.	10508 Jan 01 19:59 10508 Jan 01 13:02	16°959'01	8.72920 AU
direct	10501 Oct 17 13:58 10501 Dec 26 14:52	0° <b>8</b> 29'20	8.03423 AU	direct	10508 Jan 01 13.02 10508 Mar 11 02:22	18 \$3901 13°\$37'17	8.72920 AU
evening set	10501 Dec 26 14.52 10502 Apr 09 02:51	8° <b>8</b> 00'30		evening set	10508 Mai 11 02.22 10508 Jun 19 23:40	13 \$3717 20°\$55'27	
evening set	10302 Apr 09 02.31	8 00030		evening set	10308 Juli 19 23.40	20 33321	
conjunction	10502 Apr 26 01:58	10° <b>8</b> 04'36	-1°03'20	conjunction	10508 Jul 06 19:13	22° <b>©</b> 57'43	-1°50'32
minimum elong	10502 Apr 26 01:56	10° <b>8</b> 04'36	1°03'39	minimum elong	10508 Jul 06 19:14	22°957'44	1°51'02
max. Earth dist.	10502 Apr 26 00:28	10° <b>8</b> 04'09	10.67152 AU	max. Earth dist.	10508 Jul 07 03:24	23° <b>©</b> 00'13	10.71980 AU
morning rise	10502 May 12 23:07	12° <b>8</b> 08'11		morning rise	10508 Jul 23 16:56	25° <b>©</b> 00'37	
C	10502 Jun 07 01:15	15° <b>8</b>		C	10508 Sep 09 06:02	$0^{\circ}\Omega$	
retrograde	10502 Aug 22 07:40	19° <b>8</b> 31'01		retrograde	10508 Nov 04 11:32	2° <b>Ω</b> 30′09	
opposition	10502 Oct 30 12:02	16° <b>8</b> 10'47	-1°30'06		10509 Jan 01 23:09	30°Rூ	
min. Earth dist.	10502 Oct 30 12:09	16° <b>8</b> 10'46	8.68768 AU	opposition	10509 Jan 13 15:29	29° <b>©</b> 07'10	-2°10'59
	10502 Nov 15 08:55	15° <b>₹</b> 8		min. Earth dist.	10509 Jan 13 08:13	29° <b>©</b> 08'33	8.71091 AU
direct	10503 Jan 08 13:45	12° <b>8</b> 48'37		direct	10509 Mar 23 14:27	25°5946'43	
	10503 Mar 01 17:30	15° <b>8</b>			10509 Jun 04 23:05	$0^{\circ}\Omega$	
evening set	10503 Apr 21 14:42	20° <b>8</b> 16'25		evening set	10509 Jul 02 06:49	3° <b>Ω</b> 04'50	
	10500 1 00 11 00	2001 110122	1000115		10500 1 1 10 04 10	50.005140	1041115
conjunction	10503 May 08 11:36	22° <b>8</b> 19'33		conjunction	10509 Jul 19 04:18	5° <b>Ω</b> 07'49 5° <b>Ω</b> 07'50	
minimum elong	10503 May 08 11:34	22° <b>8</b> 19'33		minimum elong	10509 Jul 19 04:20		
max. Earth dist.	10503 May 08 11:43	_	10.70083 AU	max. Earth dist.	10509 Jul 19 12:35	5° <b>λ</b> (10'21' 7° <b>Ω</b> 11'38	10.69765 AU
morning rise	10503 May 25 07:10 10503 Jul 19 21:55	24° <b>႘</b> 22'22 0° <b>Ⅱ</b>		morning rise	10509 Aug 05 04:39 10509 Nov 17 07:00	14°Ω43'36	
retrograde	10503 Jul 19 21:33 10503 Sep 03 23:44	0 <b>П</b> 1° <b>П</b> 45'01		retrograde opposition	10510 Jan 26 10:59	14 <b>δ(</b> 43 36 11° <b>Ω</b> 19'58	1956120
renograde	10503 Sep 03 23.44 10503 Oct 21 13:43	30°R <b>B</b>		min. Earth dist.	10510 Jan 26 10.39	11° <b>Ω</b> 21'21	8.68467 AU
opposition	10503 Nov 12 10:33	28° <b>8</b> 24'40	-1°51'10	direct	10510 Apr 05 03:44	7° <b>Ω</b> 59'21	8.08407 AU
min. Earth dist.	10503 Nov 12 10:33 10503 Nov 12 09:38	28° <b>8</b> 24'50	8.71336 AU	direct	10510 Jul 12 03:12	15° <b>Ω</b>	
direct	10504 Jan 21 09:12	25° <b>8</b> 03'06	0.71330710	evening set	10510 Jul 14 16:10	15° <b>Ω</b> 18'11	
ancet	10504 Apr 11 11:46	0°II		evening sec	10310 341 11 10.10	15 001011	
evening set	10504 May 02 23:54	2° <b>I</b> I27'58		conjunction	10510 Jul 31 16:19	17° <b>Ω</b> 22'10	-1°27'19
e venning see	1000 1 1114 02 25.5 1			minimum elong	10510 Jul 31 16:22	17° <b>Ω</b> 22'11	
conjunction	10504 May 19 19:00	4° <b>Ⅱ</b> 30′21	-1°37'25	max. Earth dist.	10510 Aug 01 01:17	_	10.66806 AU
minimum elong	10504 May 19 18:58	4° <b>∏</b> 30′20		morning rise	10510 Aug 17 19:40	19° <b>Ω</b> 27'05	
max. Earth dist.	10504 May 19 20:18		10.72215 AU	retrograde	10510 Nov 30 05:30	27° <b>Ω</b> 01'45	
morning rise	10504 Jun 05 13:40	6° <b>Ⅱ</b> 32'36		opposition	10511 Feb 08 07:05	23° <b>Ω</b> 37′28	-1°36'54
retrograde	10504 Sep 15 14:19	13° <b>Ⅱ</b> 55'43		min. Earth dist.	10511 Feb 07 23:22	23° <b>Ω</b> 38'57	8.65145 AU
opposition	10504 Nov 24 08:10	10° <b>Ⅱ</b> 35′02	-2°07'09	direct	10511 Apr 17 18:50	20° <b>Ω</b> 16'34	
min. Earth dist.	10504 Nov 24 06:08	10° <b>Ⅱ</b> 35′26	8.73076 AU	evening set	10511 Jul 27 04:36	27° <b>Ω</b> 36'49	
direct	10505 Feb 02 04:45	7° <b>Ⅱ</b> 13'57					
evening set	10505 May 15 06:52	14° <b>Ⅲ</b> 36′18		conjunction	10511 Aug 13 07:50	29° <b>Ω</b> 42'01	-1°09'17
				minimum elong	10511 Aug 13 07:52	29° <b>Ω</b> 42′01	1°09'36
conjunction	10505 Jun 01 00:54	16° <b>Ⅲ</b> 38'11	-1°48'09	max. Earth dist.	10511 Aug 13 17:34	29° <b>Ω</b> 44'59	10.63217 AU
minimum elong	10505 Jun 01 00:53	16° <b>Ⅱ</b> 38'11			10511 Aug 15 18:29	0° <b>™</b>	
max. Earth dist.	10505 Jun 01 03:47	16° <b>∏</b> 39′04	10.73498 AU	morning rise	10511 Aug 30 14:21	1°Mp48'12	
morning rise	10505 Jun 17 19:19	18° <b>∏</b> 40′10		retrograde	10511 Dec 13 07:41	9° <b>™</b> 25'42	
retrograde	10505 Sep 28 06:00	26° <b>Ⅱ</b> 04'15		opposition	10512 Feb 21 04:05	6° <b>™</b> 00'49	-1°12'29
opposition	10505 Dec 07 04:47	22° <b>Ⅱ</b> 43'06	-2°17'24	min. Earth dist.	10512 Feb 20 19:58	6° Mp 02′24	8.61272 AU
min. Earth dist.	10505 Dec 07 01:03		8.73936 AU	direct	10512 Apr 29 08:49	2°m/39'33	
direct	10506 Feb 14 21:47	19° <b>Ⅲ</b> 22'21		evening set	10512 Aug 07 21:10	10°Mp01'57	
evening set	10506 May 27 12:38	26° <b>Ⅱ</b> 42'41			10512 4 25 02 25	100m-00100	0047153
conjunction	10506 Jun 13 06:29	28° <b>∏</b> 44'24	-1°54'02	conjunction minimum elong	10512 Aug 25 03:36 10512 Aug 25 03:38	12° Mp 08'28 12° Mp 08'28	
·	10506 Jun 13 06:29 10506 Jun 13 06:28	28° <b>II</b> 44'24 28° <b>II</b> 44'24		minimum elong max. Earth dist.	10512 Aug 25 03:38 10512 Aug 25 13:08		10.59167 AU
minimum elong max. Earth dist.	10506 Jun 13 06:28 10506 Jun 13 11:49		1°54°55 10.73888 AU	max. Earth dist.	10512 Aug 25 13:08 10512 Sep 11 13:25	14° My 16'01	10.3310/ AU
max. Darui Uist.	10506 Jun 23 14:55	28 <b>П</b> 40 02 0° <b>9</b>	10.73000 AU	retrograde	10512 Sep 11 13.23 10512 Dec 25 11:27	21° Mp 56'23	
morning rise	10506 Jun 30 01:12	0°9546'23		opposition	10512 Dec 25 11.27 10513 Mar 05 02:11	18° Mp 30'59	-0°44'26
retrograde	10506 Oct 10 22:07	8°911'53		min. Earth dist.	10513 Mar 04 18:35	18° My 32'28	8.57039 AU
opposition	10506 Dec 20 00:29	4°950'09	-2°21'32	direct	10513 May 12 01:06	15°Mp09'13	5.57057 AU
эррозион	10000 Dec 20 00.29	3009		uncor	10010 Way 12 01.00	15 ly 07 13	

evening set	10513 Aug 20 18:28	22° <b>m</b> 34'31		retrograde	10519 Mar 15 06:10	9° <b>∡</b> ³33'13	
evening set	10313 Mug 20 10.20	22 III 3 + 3 I		opposition	10519 May 22 00:14	6° <b>∡</b> '07'24	2°01'54
conjunction	10513 Sep 07 04:01	24° Mp 42'25	-0°24'02	min. Earth dist.	10519 May 22 01:37	6° <b>∡</b> 107'08	8.35876 AU
minimum elong	10513 Sep 07 04:02	24° m/42'25	0°24'07	direct	10519 Jul 28 16:04	2° <b>∡</b> ′41′36	
max. Earth dist.	10513 Sep 07 11:59	24° <b>m</b> 44'52	10.54853 AU	evening set	10519 Nov 09 09:15	10° <b>∡</b> ³30'47	
morning rise	10513 Sep 24 17:03	26° Mp 51'21					
	10513 Oct 22 06:19	0∘ <b>⊽</b>		conjunction	10519 Nov 27 04:16	12° <b>∡</b> °44'00	1°44'21
retrograde	10514 Jan 07 17:37	4° <b>£</b> 34'29		minimum elong	10519 Nov 27 04:14	12° <b>∡</b> ¹44′00	1°44'50
opposition	10514 Mar 18 01:49	1° <b>≙</b> 08'41	-0°13'57	max. Earth dist.	10519 Nov 27 00:19	12° <b>∡</b> ′42'46	10.35005 AU
min. Earth dist.	10514 Mar 17 19:40	1° <b>≏</b> 09'54	8.52655 AU	morning rise	10519 Dec 14 23:19	14° <b>₹</b> 757'16	
	10514 Apr 01 22:41	30°R, Mp		retrograde	10520 Mar 27 19:27	22° <b>∡</b> ¹47'57	
direct	10514 May 24 20:12	27° <b>m</b> 46'19		opposition	10520 Jun 03 08:56	19° <b>∡</b> ′22'31	2°15'16
	10514 Jul 15 01:32	0∘ <b>⊽</b>		min. Earth dist.	10520 Jun 03 12:51	19° <b>⋌</b> ¹21'44 –	8.34562 AU
asc. node	10514 Sep 01 20:13	5° <b>Ω</b> 07'42		direct	10520 Aug 10 05:40	15° <b>⋌</b> '56'07	
evening set	10514 Sep 02 20:51	5° <b>≏</b> 15'09		evening set	10520 Nov 22 11:05	23° <b>∡</b> ′48′18	
conjunction	10514 Sep 20 09:15	7° <b>≏</b> 24'23	0°01'17	conjunction	10520 Dec 10 05:48	26° <b>∡</b> '01'37	1°52'15
minimum elong	10514 Sep 20 09:15	7° <b>£</b> 24'23	0°01'19	minimum elong	10520 Dec 10 05:47	26° <b>х</b> ⁴01'37	1°52'46
behind sun begin	10514 Sep 20 02:02	7° <b>≏</b> 22'10		max. Earth dist.	10520 Dec 09 23:00	25° <b>₹</b> '59'29	10.34063 AU
behind sun end	10514 Sep 20 16:27	7° <b>≙</b> 26'35		morning rise	10520 Dec 27 23:49	28° <b>∡</b> 14'45	
max. Earth dist.	10514 Sep 20 15:35	7° <b>≙</b> 26'19	10.50485 AU		10521 Jan 11 13:41	ರ°0	
morning rise	10514 Oct 08 01:01	9° <b>£</b> 34'36		retrograde	10521 Apr 10 08:36	6° <b>පි</b> 04'18	
retrograde	10515 Jan 21 02:32	17° <b>≏</b> 20'20		opposition	10521 Jun 16 18:24	2° <b>る</b> 39'23	2°21'25
opposition	10515 Mar 31 03:02	13° <b>≙</b> 54'17	0°17'32	min. Earth dist.	10521 Jun 16 23:59	2° <b>る</b> 38'16	8.34049 AU
min. Earth dist.	10515 Mar 30 22:19	13° <b>≏</b> 55'13	8.48346 AU		10521 Jul 24 15:50	30°Ŗ <b>⋌</b> ¹	
direct	10515 Jun 06 17:40	10° <b>≏</b> 31'16		direct	10521 Aug 23 20:43	29° <b>∡</b> 12'33	
evening set	10515 Sep 16 04:34	18° <b>ჲ</b> 04'06			10521 Sep 22 21:10	0°ಕ	
				evening set	10521 Dec 06 13:08	7° <b>る</b> 06'54	
conjunction	10515 Oct 03 19:32	20° <b>≙</b> 14'34	0°26'39			_	
minimum elong	10515 Oct 03 19:30	20° <b>≙</b> 14'33	0°26'48	conjunction	10521 Dec 24 07:15	9° <b>ට</b> 20'08	1°54'10
max. Earth dist.	10515 Oct 04 00:34		10.46296 AU	minimum elong	10521 Dec 24 07:16	9° <b>る</b> 20'08	1°54'41
morning rise	10515 Oct 21 13:23	22° <b>£</b> 25'54		max. Earth dist.	10521 Dec 23 22:57		10.33985 AU
	10516 Jan 18 05:12	0°M		morning rise	10522 Jan 10 23:52	11°る32'57 19°る20'43	
retrograde	10516 Feb 03 12:17	0°M13'55		retrograde	10522 Apr 23 21:49	19° <b>ち</b> 20'43	2°20'01
opposition	10516 Feb 19 21:17 10516 Apr 12 05:54	30° <b>RΩ</b> 26° <b>Ω</b> 47'42	0°48'27	opposition min. Earth dist.	10522 Jun 30 04:37 10522 Jun 30 10:57	15°る55'06	8.34446 AU
min. Earth dist.	10516 Apr 12 03:34 10516 Apr 12 02:19	26° <b>♀</b> 48'25	8.44343 AU	direct	10522 Sep 06 12:40	13 <b>3</b> 3300	6.54440 AU
direct	10516 Jun 18 19:30	20 <del>= 4</del> 8 23 23° <b>£</b> 24'01	6.44343 AU	evening set	10522 Sep 00 12:40 10522 Dec 20 14:02	12 <b>3</b> 2910 20° <b>る</b> 24'41	
direct	10516 Sep 20 06:24	0°M		evening set	10322 DCC 20 14.02	20 02441	
evening set	10516 Sep 28 17:32	1°ML01'10		conjunction	10523 Jan 07 07:18	22° <b>る</b> 37'38	1°50'00
				minimum elong	10523 Jan 07 07:19	22° <b>る</b> 37'38	1°50'29
conjunction	10516 Oct 16 10:32	3°ML12'41	0°50'55	max. Earth dist.	10523 Jan 06 22:22		10.34881 AU
minimum elong	10516 Oct 16 10:30	3°M12'40	0°51'11	morning rise	10523 Jan 24 22:15	24° <b>る</b> 49'56	
max. Earth dist.	10516 Oct 16 14:30	3°M13'55	10.42494 AU		10523 Mar 13 07:47	0° <b>≈</b>	
morning rise	10516 Nov 03 05:41	5°M24'54		retrograde	10523 May 07 09:05	2° <b>≈</b> 35'13	
retrograde	10517 Feb 16 00:36	13°MJ14'41			10523 Jul 03 09:46	30°Ŗる	
opposition	10517 Apr 25 10:28	9° <b>M</b> 48′27	1°17'12	opposition	10523 Jul 13 15:03	29° <b>る</b> 11'28	
min. Earth dist.	10517 Apr 25 07:52	9°M48'59	8.40831 AU	min. Earth dist.	10523 Jul 13 21:50	29° <b>る</b> 10'07	8.35822 AU
direct	10517 Jul 01 23:55	6°M24'05		direct	10523 Sep 20 05:49	25° <b>⋜</b> 44'16	
evening set	10517 Oct 12 11:22	14°ML05'33			10523 Dec 02 18:02	0° <b>≈</b>	
	10517 Oct 19 19:56	15° <b>M</b> ₊		evening set	10524 Jan 03 12:57	3° <b>≈</b> 39'33	
conjunction	10517 Oct 30 05:40	16° <b>M</b> .17'54	1°12'45	conjunction	10524 Jan 21 05:01	5° <b>≈</b> 51'59	1°40'00
minimum elong	10517 Oct 30 05:37	16°M17'53	1°13'06	minimum elong	10524 Jan 21 05:04	5°≈52'00	1°40'27
max. Earth dist.	10517 Oct 30 07:40		10.39257 AU	max. Earth dist.	10524 Jan 20 19:44	5° <b>≈</b> 49'04	
morning rise	10517 Nov 17 01:19	18°MJ30'44		morning rise	10524 Feb 07 18:10	8° <b>≈</b> 03'35	
retrograde	10518 Mar 01 15:26	26°M21'35		-	10524 Apr 20 14:01	15° <b>≈</b>	
opposition	10518 May 08 16:36	22°M55'31	1°42'10	retrograde	10524 May 19 18:18	15° <b>≈</b> 45'46	
min. Earth dist.	10518 May 08 15:43	22°M55'41	8.37972 AU		10524 Jun 18 05:17	15°R≈	
direct	10518 Jul 15 05:43	19°M30'25		opposition	10524 Jul 26 01:07	12° <b>≈</b> 22'39	1°55'25
evening set	10518 Oct 26 09:02	27°M16'00		min. Earth dist.	10524 Jul 26 08:34	12° <b>≈</b> 21'10	8.38148 AU
				direct	10524 Oct 02 22:30	8° <b>≈</b> 55'31	
conjunction	10518 Nov 13 03:56	29°M28'54	1°30'55		10525 Jan 01 02:38	15° <b>≈</b>	
minimum elong	10518 Nov 13 03:53	29°M28'53	1°31'20	evening set	10525 Jan 16 08:37	16° <b>≈</b> 49'32	
max. Earth dist.	10518 Nov 13 03:14		10.36737 AU		10505 F 1 00 00 00	100 0::::	100440
	10518 Nov 17 07:08	0° <b>⊼</b> ¹		conjunction	10525 Feb 02 23:05	19°≈01'12	1°24'49
morning rise	10518 Nov 30 23:31	1° <b>∡</b> ′42′04		minimum elong	10525 Feb 02 23:08	19° <b>≈</b> 01'13	1°25'12

may Earth dist	10525 Eak 02 12:17	1000050100	10 20564 AII	minimum alana	10521 Apr. 21 06:11	5° <b>8</b> 13'00	0054151
max. Earth dist. morning rise	10525 Feb 02 13:17 10525 Feb 20 10:21	18 ≈38 08 21°≈11'58	10.39564 AU	minimum elong max. Earth dist.	10531 Apr 21 06:11 10531 Apr 21 03:57		10.65089 AU
retrograde	10525 Jun 02 01:16	21 ≈11 38 28°≈50'41		morning rise	10531 Apr 21 05.37 10531 May 08 04:18	7° <b>8</b> 16'59	10.03089 AU
opposition	10525 Juli 02 01:16 10525 Aug 08 10:36	28 ≈3041 25°≈28'10	1°33'46	retrograde	10531 May 08 04.18	14° <b>8</b> 39'48	
min. Earth dist.	_	25°≈26'35	8.41319 AU	opposition	10531 Aug 17 08:15 10531 Oct 25 10:54	11° <b>8</b> 19'13	1920/04
direct	10525 Aug 08 18:33 10525 Oct 16 14:11	23 ≈20 33 22°≈01'16	8.41319 AU	min. Earth dist.	10531 Oct 25 10:34 10531 Oct 25 11:48	_	8.67054 AU
	10526 Jan 29 23:58	22 ≈01 16 29°≈52'55		direct		7° <b>8</b> 56'20	8.07034 AU
evening set	10526 Jan 30 23:04	29 ≈32 33 0° <b>\</b>		direct	10532 Jan 03 13:19 10532 Apr 12 05:56	15° <b>8</b>	
	10320 Jan 30 23.04	υ χ		evening set	10532 Apr 12 05.36 10532 Apr 15 18:36	15° <b>8</b> 25'15	
aaniumatian	10526 Feb 16 12:30	2° <b>)</b> €03'39	1°05'22	evening set	10332 Apr 13 16.30	13 023 13	
conjunction minimum elong	10526 Feb 16 12:33	2° <del>X</del> 03'40	1°05'39	amiumation	10532 May 02 16:16	17° <b>8</b> 28'43	101450
max. Earth dist.	10526 Feb 16 12.35	2° <del>\(\)</del> 00'33	1 03 39 10.43131 AU	conjunction	10532 May 02 16:14	17 <b>8</b> 28'42	
		4° <del>X</del> 13'26	10.43131 AU	minimum elong	,	_	10.68789 AU
morning rise	10526 Mar 05 21:49			max. Earth dist.	10532 May 02 15:55	. •	10.68/89 AU
retrograde	10526 Jun 15 03:56	11° <b>)</b> (48'36	1007120	morning rise	10532 May 19 12:36	19° <b>8</b> 31'47	
opposition	10526 Aug 21 18:51	8° <b>¥</b> 26'35	1°07'30	retrograde	10532 Aug 28 23:05	26° <b>8</b> 53'58	1040157
min. Earth dist.	10526 Aug 22 02:27	8° <b>¥</b> 25'06	8.45170 AU	opposition	10532 Nov 06 09:15	23° <b>8</b> 33'23	
direct	10526 Oct 30 05:32	5° <b>)</b> €00'06		min. Earth dist.	10532 Nov 06 07:53	_	8.70466 AU
evening set	10527 Feb 12 10:43	12° <b>)</b> 48′35		direct	10533 Jan 15 10:34	20° <b>8</b> 11'19	
				evening set	10533 Apr 28 03:58	27° <b>8</b> 36'52	
conjunction	10527 Mar 01 21:08	14° <b>)</b> (58'13	0°42'45		1052221 11 22 12	2001 12012	1001105
minimum elong	10527 Mar 01 21:10	14° <b>)</b> € 58'14	0°42'56	conjunction	10533 May 14 23:49	29° <b>8</b> 39'26	
max. Earth dist.	10527 Mar 01 12:00		10.47272 AU	minimum elong	10533 May 14 23:47	29° <b>8</b> 39'25	
morning rise	10527 Mar 19 04:19	17° <b>米</b> 06′53		max. Earth dist.	10533 May 15 02:13	_	10.71819 AU
retrograde	10527 Jun 28 03:42	24° <b>)</b> 38′37			10533 May 17 19:05	$\Pi$ $^{\circ}0$	
opposition	10527 Sep 04 01:21	21° <b>米</b> 17'03	0°38'06	morning rise	10533 May 31 18:46	1° <b>∏</b> 41'46	
min. Earth dist.	10527 Sep 04 07:46	21° <b>)</b> 15'48	8.49489 AU	retrograde	10533 Sep 10 14:06	9° <b>Ⅱ</b> 03'59	
direct	10527 Nov 12 19:01	17° <b>∺</b> 51′06		opposition	10533 Nov 19 06:17	5° <b>Ⅱ</b> 43'17	
evening set	10528 Feb 25 16:36	25° <b>∺</b> 35'52		min. Earth dist.	10533 Nov 19 02:46		8.73140 AU
				direct	10534 Jan 28 05:48	2° <b>Ⅱ</b> 21'57	
conjunction	10528 Mar 14 00:41	27° <b>)</b> 44'17	0°18'13	evening set	10534 May 10 10:59	9° <b>Ⅱ</b> 44'36	
minimum elong	10528 Mar 14 00:41	27° <b>)</b> 44'17	0°18'18				
max. Earth dist.	10528 Mar 13 17:24		10.51760 AU	conjunction	10534 May 27 05:30	11° <b>∏</b> 46'31	
morning rise	10528 Mar 31 05:29	29° <b>∺</b> 51'44		minimum elong	10534 May 27 05:28	11° <b>Ⅱ</b> 46′30	
	10528 Apr 01 08:43	$0^{\circ}\mathbf{Y}$		max. Earth dist.	10534 May 27 10:11		10.74048 AU
retrograde	10528 Jul 10 02:40	7° <b>Y</b> 20′24		morning rise	10534 Jun 12 23:45	13° <b>Ⅱ</b> 48′23	
opposition	10528 Sep 16 06:22	3° <b>Y</b> 59'11	0°07'09	retrograde	10534 Sep 23 06:12	21° <b>Ⅱ</b> 11'09	
min. Earth dist.	10528 Sep 16 11:02	3° <b>Y</b> 58'17	8.54053 AU	opposition	10534 Dec 02 02:21	17° <b>Ⅱ</b> 50′16	
direct	10528 Nov 25 04:07	0° <b>Ƴ</b> 33'55		min. Earth dist.	10534 Dec 01 21:26		8.74956 AU
desc. node	10528 Dec 11 04:13	0° <b>Ƴ</b> 46'59		direct	10535 Feb 09 21:04	14° <b>Ⅱ</b> 29'33	
evening set	10529 Mar 09 17:31	8° <b>Ƴ</b> 14'37		evening set	10535 May 22 16:30	21° <b>Ⅱ</b> 49'50	
conjunction	10529 Mar 26 23:01	10° <b>Y</b> 21'44		conjunction	10535 Jun 08 10:14	23° <b>∏</b> 51′21	
minimum elong	10529 Mar 26 23:01	10° <b>Y</b> 21'44	0°07'06	minimum elong	10535 Jun 08 10:13	23° <b>∏</b> 51′21	
behind sun begin	10529 Mar 26 16:27	10° <b>Y</b> 19'43		max. Earth dist.	10535 Jun 08 16:01		10.75388 AU
behind sun end	10529 Mar 27 05:35	10° <b>Y</b> 23'45		morning rise	10535 Jun 25 04:34	25° <b>∏</b> 53'04	
max. Earth dist.	10529 Mar 26 18:02		10.56366 AU		10535 Aug 02 01:35	$0$ $\circ$ $\odot$	
morning rise	10529 Apr 13 01:21	12° <b>Y</b> 27′58		retrograde	10535 Oct 05 20:44	3°516'54	
retrograde	10529 Jul 22 23:01	19° <b>Y</b> 54′05			10535 Dec 13 23:06	30°Ŗ <b>Ⅱ</b>	
opposition	10529 Sep 29 09:39	16° <b>Ƴ</b> 33'08	-0°23'49	opposition	10535 Dec 14 21:42	29° <b>Ⅱ</b> 55'43	
min. Earth dist.	10529 Sep 29 13:01	16° <b>Ƴ</b> 32'30	8.58644 AU	min. Earth dist.	10535 Dec 14 16:08		8.75851 AU
direct	10529 Dec 08 09:13	13° <b>Y</b> 08'39		direct	10536 Feb 22 11:02	26° <b>Ⅱ</b> 35'29	
evening set	10530 Mar 22 13:56	20° <b>Y</b> 45′13			10536 Apr 28 05:04	$0$ $\circ$ $\odot$	
				evening set	10536 Jun 02 21:12	3° <b>©</b> 54'00	
conjunction	10530 Apr 08 16:41	22° <b>Y</b> 51′02					
minimum elong	10530 Apr 08 16:40	22° <b>Y</b> 51'02		conjunction	10536 Jun 19 14:58	5° <b>©</b> 55'26	
max. Earth dist.	10530 Apr 08 13:14		10.60880 AU	minimum elong	10536 Jun 19 14:58	5° <b>©</b> 55'26	
morning rise	10530 Apr 25 16:45	24° <b>Y</b> 56′06		max. Earth dist.	10536 Jun 19 21:45		10.75806 AU
	10530 Jun 12 15:08	0° <b>8</b>		morning rise	10536 Jul 06 10:12	7° <b>©</b> 57'16	
retrograde	10530 Aug 04 16:00	2° <b>8</b> 20'13		retrograde	10536 Oct 17 12:03	15° <b>©</b> 22'39	
	10530 Sep 29 02:14	30°₹ <b>Υ</b>		opposition	10536 Dec 26 16:36	12° <b>©</b> 01'04	
opposition	10530 Oct 12 11:04	28° <b>Y</b> 59'31		min. Earth dist.	10536 Dec 26 09:57		8.75802 AU
min. Earth dist.	10530 Oct 12 13:22	28° <b>Y</b> 59'04	8.63050 AU	direct	10537 Mar 06 01:33	8°5541'08	
direct	10530 Dec 21 13:01	25° <b>Y</b> 35'48		evening set	10537 Jun 15 01:47	15° <b>©</b> 58'28	
	10531 Mar 07 13:42	0°8					
evening set	10531 Apr 04 06:10	3° <b>8</b> 08'26		conjunction	10537 Jul 01 20:35	18° <b>©</b> 00'11	
				minimum elong	10537 Jul 01 20:36	18° <b>©</b> 00'11	1°53'22
conjunction	10531 Apr 21 06:13	5° <b>8</b> 13'00	-0°54'35	max. Earth dist.	10537 Jul 02 05:01	18° <b>©</b> 02'45	10.75283 AU

morning rise	10537 Jul 18 17:19	20° <b>©</b> 02'27		max. Earth dist.	10543 Sep 15 02:06	1° <b>Ω</b> 59'13	10.54630 AU
retrograde	10537 Jul 10 17:19 10537 Oct 30 06:08	20 <b>3</b> 02 27 27° <b>2</b> 9'44		morning rise	10543 Oct 02 09:39	4° <b>2</b> 06'29	10.54050 AO
opposition	10538 Jan 08 11:08	24° <b>©</b> 07'39	-2°15'04	retrograde	10544 Jan 15 10:39	11° <b>≏</b> 49'57	
min. Earth dist.	10538 Jan 08 03:14	24°509'09	8.74795 AU	asc. node	10544 Feb 12 23:42	11° <b>⊆</b> 4957	
direct	10538 Mar 18 14:07	20° <b>©</b> 47'54	0.71793110	opposition	10544 Mar 24 14:45	8° <b>₽</b> 24'19	0°03'25
evening set	10538 Jun 27 07:28	28° <b>©</b> 04'42		min. Earth dist.	10544 Mar 24 09:43	8° <b>≏</b> 25'19	8.52168 AU
evening sec	10538 Jul 13 05:07	0°Ω		direct	10544 May 31 07:32	5° <b>Ω</b> 01'54	0.52100110
	10000 001 10 00.07	° 00		evening set	10544 Sep 09 12:46	12° <b>Ω</b> 31'47	
conjunction	10538 Jul 14 04:00	0° <b>Ω</b> 06'58	-1°45'41				
minimum elong	10538 Jul 14 04:02	0° <b>Ω</b> 06'59		conjunction	10544 Sep 27 02:33	14° <b>≏</b> 41'26	0°15'19
max. Earth dist.	10538 Jul 14 13:55		10.73814 AU	minimum elong	10544 Sep 27 02:33	14° <b>Ω</b> 41'26	0°15'25
morning rise	10538 Jul 31 02:51	2° <b>Ω</b> 09'57		behind sun begin	10544 Sep 27 00:42	14° <b>≏</b> 40'52	
retrograde	10538 Nov 12 01:11	9° <b>Ω</b> 39'25		behind sun end	10544 Sep 27 04:23	14° <b>≏</b> 41'59	
opposition	10539 Jan 21 05:36	6° <b>Ω</b> 16'47	-2°03'17	max. Earth dist.	10544 Sep 27 07:29	14° <b>≏</b> 42'57	10.49761 AU
min. Earth dist.	10539 Jan 20 20:55	6° <b>Ω</b> 18'26	8.72842 AU	morning rise	10544 Oct 14 19:17	16° <b>≏</b> 52'01	
direct	10539 Mar 31 02:06	2° <b>Ω</b> 57'01		retrograde	10545 Jan 27 19:13	24° <b>≏</b> 38'04	
evening set	10539 Jul 09 15:02	10° <b>Ω</b> 14'02		opposition	10545 Apr 06 15:59	21° <b>₽</b> 12'02	0°34'41
				min. Earth dist.	10545 Apr 06 12:36	21° <b>≏</b> 12'42	8.47402 AU
conjunction	10539 Jul 26 13:48	12° <b>Ω</b> 17'08	-1°33'46	direct	10545 Jun 13 06:26	17° <b>≏</b> 48'43	
minimum elong	10539 Jul 26 13:51	12° <b>Ω</b> 17'09	1°34'11	evening set	10545 Sep 22 22:37	25° <b>≏</b> 23'00	
max. Earth dist.	10539 Jul 26 23:41	12° <b>Ω</b> 20′09	10.71428 AU		•		
morning rise	10539 Aug 12 15:26	14° <b>Ω</b> 21′06		conjunction	10545 Oct 10 14:33	27° <b>≏</b> 33'51	0°40'10
Č	10539 Aug 18 03:00	15° <b>Ω</b>		minimum elong	10545 Oct 10 14:31	27° <b>≏</b> 33'50	0°40'23
retrograde	10539 Nov 24 22:37	21° <b>Ω</b> 53′02		max. Earth dist.	10545 Oct 10 16:53	27° <b>≏</b> 34'34	10.45140 AU
opposition	10540 Feb 03 00:39	18° <b>Ω</b> 29'47	-1°45'53	morning rise	10545 Oct 28 09:06	29° <b>≙</b> 45'29	
min. Earth dist.	10540 Feb 02 16:28	18° <b>Ω</b> 31'21	8.69978 AU		10545 Oct 30 08:55	$0^{\circ}$ M	
direct	10540 Apr 11 14:27	15° <b>Ω</b> 09'47		retrograde	10546 Feb 10 05:45	7° <b>M</b> 33'44	
evening set	10540 Jul 21 01:11	22° <b>Ω</b> 27'47		opposition	10546 Apr 19 19:06	4° <b>™</b> 07'28	1°04'32
				min. Earth dist.	10546 Apr 19 17:50	4°ML07'43	8.43011 AU
conjunction	10540 Aug 07 02:42	24° <b>Ω</b> 31'59	-1°17'31	direct	10546 Jun 26 08:36	0°M43'14	
minimum elong	10540 Aug 07 02:44	24° <b>Ω</b> 32'00	1°17'52	evening set	10546 Oct 06 13:17	8°M22'04	
max. Earth dist.	10540 Aug 07 11:28	24° <b>Ω</b> 34'40	10.68158 AU				
morning rise	10540 Aug 24 07:36	26° <b>Ω</b> 37'10		conjunction	10546 Oct 24 06:48	10°M33'55	1°03'12
	10540 Sep 23 12:11	0° <b>m</b>		minimum elong	10546 Oct 24 06:46	10°M33'55	1°03'31
retrograde	10540 Dec 06 22:05	4° <b>M</b> 11'49		max. Earth dist.	10546 Oct 24 07:00	10°M33'59	10.40991 AU
opposition	10541 Feb 14 20:25	0° <b>M</b> 47'57	-1°23'31	morning rise	10546 Nov 11 02:22	12°M46'24	
min. Earth dist.	10541 Feb 14 13:22	0° <b>™</b> 49'19	8.66260 AU		10546 Nov 29 22:37	15° <b>M</b>	
	10541 Feb 25 07:40	30° <b>₹Ω</b>		retrograde	10547 Feb 23 18:08	20°M36'20	
direct	10541 Apr 24 03:20	27° <b>Ω</b> 27'33		opposition	10547 May 02 23:56	17° <b>M</b> 09'57	1°31'21
	10541 Jun 18 12:03	0° <b>m</b> p		min. Earth dist.	10547 May 03 00:15	17° <b>M</b> 09'53	8.39210 AU
evening set	10541 Aug 02 15:02	4° <b>₯</b> 47'27			10547 Jun 01 08:12	15°RM	
				direct	10547 Jul 09 13:42	13°M44'51	
conjunction	10541 Aug 19 19:42	6° № 52'56	-0°57'35		10547 Aug 16 09:08	15° <b>™</b>	
minimum elong	10541 Aug 19 19:44	6° M 52'57	0°57'50	evening set	10547 Oct 20 08:23	21°M28'11	
max. Earth dist.	10541 Aug 20 03:25	6° Mp 55′18	10.64103 AU				
morning rise	10541 Sep 06 04:00	8° <b>₯</b> 59'28		conjunction	10547 Nov 07 03:01	23°M40'48	1°23'09
retrograde	10541 Dec 19 22:22	16° Mp 37′03		minimum elong	10547 Nov 07 02:59	23° <b>M</b> 40'47	1°23'33
opposition	10542 Feb 27 17:01	13° Mp 12'34		max. Earth dist.	10547 Nov 07 01:35		10.37519 AU
min. Earth dist.	10542 Feb 27 10:54	13° <b>m</b> 13'45	8.61867 AU	morning rise	10547 Nov 24 22:51	25°M53'50	
direct	10542 May 06 19:27	9° <b>™</b> 51'37			10547 Dec 31 05:21	0° <b>∡</b>	
evening set	10542 Aug 15 09:13	17° Mp 14'13		retrograde	10548 Mar 08 07:18	3° <b>х</b> 44'45	
				opposition	10548 May 15 06:15	0° <b>∡</b> 18′25	1°53'38
conjunction	10542 Sep 01 17:13	19° <b>m</b> 21'07		min. Earth dist.	10548 May 15 07:46	0° <b>∡</b> 18′07	8.36178 AU
minimum elong	10542 Sep 01 17:14	19° <b>m</b> 21'07			10548 May 19 02:06	30°RM	
max. Earth dist.	10542 Sep 02 00:39		10.59500 AU	direct	10548 Jul 21 22:46	26°M52'30	
morning rise	10542 Sep 19 04:39	21°m/29'03			10548 Sep 21 05:57	0° <b>∡</b> 7	
retrograde	10543 Jan 02 02:39	29° m 09'38		evening set	10548 Nov 02 07:02	4° <b>∡</b> °40′01	
opposition	10543 Mar 12 15:06	25° m 44'33					1000:-:
min. Earth dist.	10543 Mar 12 09:15	25° m 45'41	8.57076 AU	conjunction	10548 Nov 20 02:11	6° <b>₹</b> 753′10	1°38'51
direct	10543 May 19 13:04	22° m 22'55		minimum elong	10548 Nov 20 02:09	6° <b>₹</b> 53'10	1°39'19
evening set	10543 Aug 28 08:15	29° m 48'51		max. Earth dist.	10548 Nov 19 23:10		10.34894 AU
	10543 Aug 29 21:08	0∘ <b>⊽</b>		morning rise	10548 Dec 07 21:35	9° <b>₹</b> 06'28	
_				retrograde	10549 Mar 21 21:04	16° <b>₹</b> 57'36	
conjunction	10543 Sep 14 19:22	1° <b>≏</b> 57'10		opposition	10549 May 28 14:05	13° <b>∡</b> ′31′30	2°10'02
minimum elong	10543 Sep 14 19:22	1° <b>≏</b> 57'10	0°10'10	min. Earth dist.	10549 May 28 16:45	13° <b>⋌</b> ³30'57	8.34058 AU
behind sun begin	10543 Sep 14 13:39	1° <b>≏</b> 55'25		direct	10549 Aug 04 09:48	10° <b>∡</b> 04'53	
behind sun end	10543 Sep 15 01:06	1° <b>≏</b> 58'55		evening set	10549 Nov 16 07:55	17° <b>∡</b> ¹55'55	

conjunction minimum elong max. Earth dist. morning rise	10549 Dec 04 02:59 10549 Dec 04 02:57 10549 Dec 03 22:16 10549 Dec 21 21:25	20° 🗷 09'20 20° 🗷 09'20 20° 🗷 07'51 22° 🗷 22'38 0° る	1°49'22 1°49'53 10.33245 AU	conjunction minimum elong max. Earth dist. morning rise	10556 Feb 24 02:35 10556 Feb 24 02:37 10556 Feb 23 18:51 10556 Mar 12 10:40	9°\;\;\17'43 9°\;\;\17'43 9°\;\;\15'17 11°\;\;\26'56 19°\;\;\00'29	0°53'29 0°53'43 10.45237 AU
retrograde opposition	10550 Mar 19 22:18 10550 Apr 04 11:50 10550 Apr 20 01:16 10550 Jun 10 23:07	0°る13'09 30°Ŗズ 26°ズ47'26	2°19'35	retrograde opposition min. Earth dist. direct	10556 Jun 21 14:28 10556 Aug 28 07:38 10556 Aug 28 13:45 10556 Nov 05 20:44	15° <b>)</b> 38′54	0°51'55 8.47524 AU
min. Earth dist. direct	10550 Jun 11 03:17 10550 Aug 17 22:22 10550 Nov 20 06:05	26° 🖈 46'36 23° 🖈 20'17 0° පි	8.32960 AU	evening set	10557 Feb 18 23:40 10557 Mar 08 08:53	19° <b>¥</b> 59'44 22° <b>¥</b> 08'45	0°29'40
evening set	10550 Nov 30 09:48 10550 Dec 18 04:19	1°ත13'57 3°ත27'23	1°54'05	minimum elong max. Earth dist. morning rise	10557 Mar 08 08:54 10557 Mar 08 01:41 10557 Mar 25 14:44	22°\(\)08'45 22°\(\)06'31 24°\(\)16'47	0°29'47 10.49879 AU
minimum elong	10550 Dec 18 04:18	3° <b>る</b> 27'23	1°54'36	morning rise	10557 May 20 00:08	0° <b>Υ</b>	
max. Earth dist.	10550 Dec 17 21:27		10.32679 AU	retrograde	10557 Jul 04 14:27	1° <b>Ƴ</b> 47'03	
morning rise	10551 Jan 04 21:33	5°る40'28			10557 Aug 20 14:13	30° <b>₹</b>	
retrograde	10551 Apr 18 01:45	13°る29'28 10°る04'19	2°21'41	opposition	10557 Sep 10 13:57 10557 Sep 10 19:34	28°\(\frac{1}{2}26'02\) 28°\(\frac{1}{2}24'57\)	0°21'28 8.52293 AU
opposition min. Earth dist.	10551 Jun 24 08:56 10551 Jun 24 14:48	10°る04°19	8.32960 AU	min. Earth dist. direct	10557 Sep 10 19:34 10557 Nov 19 07:46	28° <b>★</b> 24'37 25° <b>★</b> 00'49	8.52293 AU
direct	10551 Aug 31 13:10	6°₹36'48	0.32700 AC	direct	10558 Feb 08 14:38	25 <b>γ</b> (00 <del>4</del> )	
evening set	10551 Dec 14 11:17	14° <b>පි</b> 32'03		evening set	10558 Mar 04 03:22	2° <b>Y</b> 43'38	
conjunction	10552 Jan 01 04:57	16° <b>る</b> 45'16	1°52'42	conjunction	10558 Mar 21 09:59	4° <b>Ƴ</b> 51'21	0°04'39
minimum elong	10552 Jan 01 04:58	16° <b>පි</b> 45'16	1°53'12	minimum elong	10558 Mar 21 09:59	4° <b>Υ</b> 51'21	0°04'39
max. Earth dist.	10551 Dec 31 20:15		10.33235 AU	behind sun begin	10558 Mar 21 03:01	4° <b>Υ</b> 49'13	
morning rise	10552 Jan 18 20:49 10552 Apr 30 12:24	18°る57'57 26°る44'40		behind sun end max. Earth dist.	10558 Mar 21 16:57 10558 Mar 21 03:36	4° <b>Υ</b> 53'30 4° <b>Υ</b> 49'24	10.54739 AU
retrograde opposition	10552 Jul 06 19:11	20 84440 23° <b>る</b> 20'11	2°16'12	morning rise	10558 Apr 07 13:36	6° <b>Υ</b> 58'11	10.54739 AU
min. Earth dist.	10552 Jul 07 02:08	23° <b>る</b> 18'48	8.34057 AU	desc. node	10558 May 29 17:39	12° <b>Υ</b> 24'47	
direct	10552 Sep 13 07:08	19° <b>ප්</b> 52'34		retrograde	10558 Jul 17 11:04	14° <b>Y</b> 25'33	
evening set	10552 Dec 27 11:09	27° <b>ප්</b> 48'15		opposition	10558 Sep 23 18:28	11° <b>Y</b> ′04'56	-0°09'41
				min. Earth dist.	10558 Sep 23 22:42	11° <b>Y</b> ′04'07	8.57157 AU
conjunction	10553 Jan 14 03:43	0°≈01'01	1°45'19	direct	10558 Dec 02 16:34	7° <b>Υ</b> 40'31 15° <b>Υ</b> 19'10	
minimum elong max. Earth dist.	10553 Jan 14 03:44 10553 Jan 13 18:05	0°≈01'01 29°⋜57'59	1°45'48 10.34881 AU	evening set	10559 Mar 17 02:26	15.4.19.10	
max. Larm dist.	10553 Jan 14 00:30	0° <b>≈</b>	10.54001 AC	conjunction	10559 Apr 03 06:24	17° <b>Y</b> °25'33	-0°20'29
morning rise	10553 Jan 31 17:54	2° <b>≈</b> 13'04		minimum elong	10559 Apr 03 06:23	17° <b>Y</b> °25'33	0°20'36
retrograde	10553 May 13 21:44	9° <b>≈</b> 56'56		max. Earth dist.	10559 Apr 03 01:48	17° <b>Y</b> ′24'08	10.59535 AU
opposition	10553 Jul 20 05:20	6° <b>≈</b> 33'11	2°03'31	morning rise	10559 Apr 20 07:39	19° <b>Y</b> 31'09	
min. Earth dist.	10553 Jul 20 12:28	6° <b>≈</b> 31'45	8.36194 AU	retrograde	10559 Jul 30 05:34	26° <b>Y</b> 56′10	
direct	10553 Sep 27 00:26	3°≈05'42		opposition	10559 Oct 06 20:59	23° <b>Y</b> 35'50	
evening set	10554 Jan 10 08:13	11° <b>≈</b> 00'36		min. Earth dist. direct	10559 Oct 06 23:29 10559 Dec 15 22:45	23° <b>Y</b> 35'21 20° <b>Y</b> 12'13	8.61818 AU
conjunction	10554 Jan 27 23:28	13° <b>≈</b> 12'43	1°32'26	evening set	10559 Dec 15 22:45 10560 Mar 28 21:01	20 γ 12 13 27° <b>Υ</b> 46'43	
minimum elong	10554 Jan 27 23:30	13°≈12'44	1°32'51	evening sec	10000 11111 20 21:01	2, 1.0.5	
max. Earth dist.	10554 Jan 27 14:06	13° <b>≈</b> 09'46	10.37535 AU	conjunction	10560 Apr 14 22:23	29° <b>Y</b> 51'50	-0°44'19
	10554 Feb 11 06:10	15° <b>≈</b>		minimum elong	10560 Apr 14 22:21	29° <b>Y</b> 51'49	
morning rise	10554 Feb 14 11:47	15° <b>≈</b> 23'58		max. Earth dist.	10560 Apr 14 19:52		10.63964 AU
retrograde	10554 May 27 06:12	23°≈04'33	1944126		10560 Apr 16 00:55	0°8	
opposition min. Earth dist.	10554 Aug 02 15:02 10554 Aug 02 21:38	19° <b>≈</b> 41'33 19° <b>≈</b> 40'14	1°44'26 8.39268 AU	morning rise retrograde	10560 May 01 21:18 10560 Aug 11 00:18	1° <b>8</b> 56'15	
direct	10554 Oct 10 16:18	16°≈14'26	6.39206 AU	opposition	10560 Oct 18 22:01	5° <b>8</b> 59'27	-1°08'12
evening set	10555 Jan 24 01:36	24°≈07'27		min. Earth dist.	10560 Oct 18 23:03		8.65975 AU
C				direct	10560 Dec 27 23:53	2° <b>8</b> 36'38	
conjunction	10555 Feb 10 15:15	26° <b>≈</b> 18'43	1°14'48	evening set	10561 Apr 10 11:32	10° <b>8</b> 07'17	
minimum elong	10555 Feb 10 15:18	26°≈18'44	1°15'08				
max. Earth dist.	10555 Feb 10 06:52		10.41052 AU	conjunction	10561 Apr 27 10:24	12° <b>8</b> 11'15	
morning rise	10555 Feb 28 01:32 10555 Mar 12 16:04	28° <b>≈</b> 29'02 0° <b>)</b> €		minimum elong max. Earth dist.	10561 Apr 27 10:21 10561 Apr 27 09:29	12° <b>8</b> 11'14	10615 10.67745 AU
retrograde	10555 Mar 12 16:04 10555 Jun 09 12:05	6° <b>∺</b> 06'06		max. Earth dist.	10561 Apr 27 09:29 10561 May 14 07:20	12° <b>8</b> 10'39	10.07743 AU
opposition	10555 Aug 15 23:56	2° <b>)</b> (43'50	1°20'06		10561 May 20 15:41	15° <b>8</b>	
min. Earth dist.	10555 Aug 16 06:15	2° <b>)</b> 42'35	8.43110 AU	retrograde	10561 Aug 23 16:26	21° <b>8</b> 37'16	
	10555 Sep 25 04:12	30°R≈		opposition	10561 Oct 31 21:35	18° <b>8</b> 17'05	-1°32'58
direct	10555 Oct 24 07:01	29° <b>≈</b> 17'13		min. Earth dist.	10561 Oct 31 21:49		8.69395 AU
	10555 Nov 22 05:59	0° <b>∺</b>			10561 Dec 30 23:23	15° <b>₹</b> 8	
evening set	10556 Feb 06 14:57	7° <b>∺</b> 07'29		direct	10562 Jan 09 22:10	14° <b>8</b> 55'01	

	10562 Jan 19 21:15	15° <b>8</b>			10568 May 15 00:29	0°N	
evening set	10562 Apr 22 22:57	22° <b>8</b> 22'19		evening set	10568 Jul 03 13:51	5° <b>Ω</b> 08'24	
conjunction	10562 May 09 19:34	24° <b>8</b> 25'19	-1°24'22	conjunction	10568 Jul 20 11:36	7° <b>Ω</b> 11'25	-1°39'32
minimum elong	10562 May 09 19:31	24° <b>8</b> 25'18	1°24'46	minimum elong	10568 Jul 20 11:38	7° <b>Ω</b> 11′26	1°40'00
max. Earth dist.	10562 May 09 19:24	24° <b>8</b> 25'16	10.70722 AU	max. Earth dist.	10568 Jul 20 19:56	7° <b>Ω</b> 13′58	10.69926 AU
morning rise	10562 May 26 15:06	26° <b>8</b> 28'00		morning rise	10568 Aug 06 12:12	9° <b>Ω</b> 15'15	
	10562 Jun 27 07:26	$\Pi$ $^{\circ}0$			10568 Oct 02 13:29	15° <b>Ω</b>	
retrograde	10562 Sep 05 07:22	3° <b>Ⅱ</b> 50′27		retrograde	10568 Nov 18 14:37	16° <b>Ω</b> 47'14	
opposition	10562 Nov 13 19:44	0° <b>Ⅱ</b> 30′09	-1°53'22		10569 Jan 05 22:04	$15^{\circ}$ R $\Omega$	
min. Earth dist.	10562 Nov 13 19:04	0° <b>Ⅲ</b> 30′16	8.71981 AU	opposition	10569 Jan 27 18:47	13° <b>£</b> 23′35	-1°54'12
	10562 Nov 20 11:25	30°₽ <b>႘</b>		min. Earth dist.	10569 Jan 27 11:20	13° <b>Ω</b> 25′01	8.68564 AU
direct	10563 Jan 22 19:01	27° <b>8</b> 08'41		direct	10569 Apr 06 12:30	10° <b>Ω</b> 02'59	
	10563 Mar 23 19:00	$\Pi$ $^{\circ}0$			10569 Jun 25 10:38	15° <b>Ω</b>	
evening set	10563 May 05 07:45	4° <b>Ⅱ</b> 33'07		evening set	10569 Jul 15 23:11	17° <b>Ω</b> 21'41	
conjunction	10563 May 22 02:42	6° <b>∏</b> 35′23	-1°38'55	conjunction	10569 Aug 01 23:43	19° <b>Ω</b> 25'44	-1°25'06
minimum elong	10563 May 22 02:40	6° <b>Ⅱ</b> 35'22	1°39'23	minimum elong	10569 Aug 01 23:45	19° <b>Ω</b> 25'45	1°25'29
max. Earth dist.	10563 May 22 03:56	6° <b>Ⅱ</b> 35'45	10.72845 AU	max. Earth dist.	10569 Aug 02 09:13	19° <b>Ω</b> 28'39	10.66845 AU
morning rise	10563 Jun 07 21:22	8° <b>Ⅱ</b> 37'32		morning rise	10569 Aug 19 03:16	21° <b>Ω</b> 30'43	
retrograde	10563 Sep 17 22:47	16° <b>Ⅱ</b> 00′29		retrograde	10569 Dec 01 14:38	29° <b>Ω</b> 05′24	
opposition	10563 Nov 26 16:58	12° <b>Ⅱ</b> 39'52	-2°08'35	opposition	10570 Feb 09 14:42	25° <b>Ω</b> 41′04	-1°33'52
min. Earth dist.	10563 Nov 26 14:37	12° <b>Ⅱ</b> 40′19	8.73685 AU	min. Earth dist.	10570 Feb 09 06:36	25° <b>Ω</b> 42'38	8.65119 AU
direct	10564 Feb 04 13:23	9° <b>Ⅱ</b> 18'55		direct	10570 Apr 19 01:14	22° <b>Ω</b> 20′11	
evening set	10564 May 16 14:24	16° <b>Ⅱ</b> 40′51		evening set	10570 Jul 28 11:53	29° <b>Ω</b> 40′23	
					10570 Jul 31 05:05	0° <b>m</b> y	
conjunction	10564 Jun 02 08:28	18° <b>Ⅱ</b> 42'40	-1°49'00				
minimum elong	10564 Jun 02 08:27	18° <b>Ⅱ</b> 42'39	1°49'31	conjunction	10570 Aug 14 15:24	1° <b>m</b> 45'39	-1°06'39
max. Earth dist.	10564 Jun 02 12:05	18° <b>Ⅱ</b> 43'46	10.74070 AU	minimum elong	10570 Aug 14 15:26	1° <b>m</b> 45'39	1°06'56
morning rise	10564 Jun 19 02:47	20° <b>Ⅱ</b> 44'34		max. Earth dist.	10570 Aug 15 00:59	1°Mp48'35	10.63131 AU
retrograde	10564 Sep 29 14:00	28° <b>Ⅱ</b> 08'33		morning rise	10570 Aug 31 22:10	3°M 51'55	
opposition	10564 Dec 08 13:19	24° <b>∏</b> 47'27	-2°18'02	retrograde	10570 Dec 14 15:25	11° <b>m</b> 29'26	
min. Earth dist.	10564 Dec 08 08:49	24° <b>Ⅱ</b> 48′18	8.74469 AU	opposition	10571 Feb 22 11:34	8° Mp 04'30	-1°09'01
direct	10565 Feb 16 06:03	21° <b>Ⅱ</b> 26'51		min. Earth dist.	10571 Feb 22 03:42	8° Mp 06'02	8.61122 AU
evening set	10565 May 28 19:57	28° <b>Ⅱ</b> 46'51		direct	10571 May 01 15:52	4° <b>m</b> 43'11	
	10565 Jun 07 22:38	0ංවෙ		evening set	10571 Aug 10 04:41	12° m 05'39	
conjunction	10565 Jun 14 13:52	0°9548'30	-1°54'13	conjunction	10571 Aug 27 11:18	14° <b>m</b> 12'15	-0°44'56
minimum elong	10565 Jun 14 13:51	0° <b>5</b> 348'30	1°54'45	minimum elong	10571 Aug 27 11:19	14° Mp 12'16	0°45'08
max. Earth dist.	10565 Jun 14 19:49	0° <b>©</b> 50'19	10.74375 AU	max. Earth dist.	10571 Aug 27 19:46	14° Mp 14'51	10.58962 AU
morning rise	10565 Jul 01 08:34	2° <b>©</b> 50'25		morning rise	10571 Sep 13 21:27	16° <b>m</b> 19'54	
retrograde	10565 Oct 12 07:00	10° <b>©</b> 15'52		retrograde	10571 Dec 27 19:23	24°Mp00'19	
opposition	10565 Dec 21 08:52	6° <b>9</b> 54'11	-2°21'20	opposition	10572 Mar 06 09:46	20° Mp 34'52	-0°40'40
min. Earth dist.	10565 Dec 21 03:00	6° <b>©</b> 55'18	8.74321 AU	min. Earth dist.	10572 Mar 06 03:03	20°M 36'11	8.56774 AU
direct	10566 Feb 28 20:38	3° <b>5</b> 33'48		direct	10572 May 13 08:30	17° <b>m</b> 12'59	
evening set	10566 Jun 10 01:10	10° <b>©</b> 52'26		evening set	10572 Aug 22 02:08	24° <b>m</b> 38'27	
conjunction	10566 Jun 26 19:35	12° <b>©</b> 54'15	-1°54'22	conjunction	10572 Sep 08 11:53	26° M 46'26	
minimum elong	10566 Jun 26 19:35	12° <b>©</b> 54'15	1°54'54	minimum elong	10572 Sep 08 11:54	26° Mp 46'26	0°20'59
max. Earth dist.	10566 Jun 27 02:29		10.73761 AU	max. Earth dist.	10572 Sep 08 18:58	26° ₩ 48'36	10.54537 AU
morning rise	10566 Jul 13 15:34	14° <b>©</b> 56'32		morning rise	10572 Sep 26 01:14	28° <b>m</b> 55'28	
retrograde	10566 Oct 25 01:09	22° <b>5</b> 23'47			10572 Oct 05 02:05	0∘ <b>ত</b>	
opposition	10567 Jan 03 04:10	19° <b>5</b> 01'30	-2°18'22	retrograde	10573 Jan 09 01:46	6° <b>£</b> 38'43	
min. Earth dist.	10567 Jan 02 21:47	19° <b>5</b> 02'43	8.73252 AU	opposition	10573 Mar 19 09:25	3° <b>₽</b> 12'50	-0°10'03
direct	10567 Mar 13 08:38	15° <b>©</b> 41'10		min. Earth dist.	10573 Mar 19 03:58	3° <b>£</b> 13'55	8.52282 AU
evening set	10567 Jun 22 06:48	22° <b>©</b> 59'08			10573 May 12 17:30	30°Ŗ <b>₯</b>	
				direct	10573 May 26 03:24	29° Mp 50'20	
conjunction	10567 Jul 09 02:27	25° <b>©</b> 01'23	-1°49'25		10573 Jun 08 13:03	0∘ <b>⊽</b>	
minimum elong	10567 Jul 09 02:28	25° <b>©</b> 01'23		asc. node	10573 Jul 17 21:29	2° <b>£</b> 11'37	
max. Earth dist.	10567 Jul 09 09:52		10.72258 AU	evening set	10573 Sep 04 04:53	7° <b>≏</b> 19'26	
morning rise	10567 Jul 26 00:28	27° <b>©</b> 04'19					
	10567 Aug 20 21:36	$0^{\circ}\Omega$		conjunction	10573 Sep 21 17:34	9° <b>≏</b> 28'45	0°04'27
retrograde	10567 Nov 06 18:04	4° <b>Ω</b> 33'47		minimum elong	10573 Sep 21 17:34	9° <b>≏</b> 28'45	0°04'30
opposition	10568 Jan 15 23:25	1° <b>Ω</b> 10′50		behind sun begin	10573 Sep 21 10:30	9° <b>ჲ</b> 26'35	
min. Earth dist.	10568 Jan 15 16:41	1° <b>Ω</b> 12′07	8.71307 AU	behind sun end	10573 Sep 22 00:38	9° <b>ჲ</b> 30'55	
	10568 Jan 31 18:54	30° <b>₹</b> 5		max. Earth dist.	10573 Sep 21 23:44	9° <b>₾</b> 30'38	10.50061 AU
direct	10568 Mar 24 22:31	27° <b>©</b> 50'25		morning rise	10573 Oct 09 09:31	11° <b>≏</b> 39'04	

retrograde opposition min. Earth dist. direct evening set	10574 Jan 22 09:24 10574 Apr 01 10:33 10574 Apr 01 05:56 10574 Jun 08 02:26 10574 Sep 17 12:59	19° <b>£</b> 24'58 15° <b>£</b> 58'48 15° <b>£</b> 59'42 12° <b>£</b> 35'38 20° <b>£</b> 08'51	0°21'22 8.47872 AU	morning rise retrograde opposition min. Earth dist. direct evening set	10579 Dec 30 10:08 10580 Apr 11 18:33 10580 Jun 18 03:43 10580 Jun 18 08:39 10580 Aug 25 06:17 10580 Dec 07 23:43	0°ට 23'33 8°ට 13'12 4°ට 48'16 4°ට 47'17 1°ට 21'24 9°ට 16'01	2°21'25 8.33797 AU
conjunction minimum elong max. Earth dist.	10574 Oct 05 04:12 10574 Oct 05 04:10 10574 Oct 05 09:29	22° <b>£</b> 19'25 22° <b>£</b> 19'25 22° <b>£</b> 21'03	0°29'41 0°29'51 10.45771 AU	conjunction minimum elong	10580 Dec 25 17:52 10580 Dec 25 17:52	11° <b>පි</b> 29'17 11° <b>පි</b> 29'17	1°53'47 1°54'18
morning rise	10574 Oct 22 22:03 10574 Dec 13 19:13	24° <b>£</b> 30′50 0° <b>M</b>		max. Earth dist. morning rise	10580 Dec 25 10:19 10581 Jan 12 10:16	11° ට 26'54 13° ට 42'06	10.33802 AU
retrograde	10575 Feb 04 20:34 10575 Mar 31 04:57	2°ጤ19'04 30°ጺ <b>立</b>		retrograde opposition	10581 Apr 25 07:32 10581 Jul 01 14:08	21°る29'51 18°る05'32	2°19'04
opposition	10575 Apr 14 13:36	28° <b>≏</b> 52'45	0°52'03	min. Earth dist.	10581 Jul 01 20:12	18° <b>る</b> 04'19	8.34312 AU
min. Earth dist.	10575 Apr 14 09:46	28° <b>≏</b> 53'31	8.43778 AU	direct	10581 Sep 07 22:43	14° <b>る</b> 38'27	
direct	10575 Jun 21 03:18	25° <b>Ω</b> 28'55		evening set	10581 Dec 22 00:41	22° <b>る</b> 34'03	
avanina aat	10575 Sep 04 04:52 10575 Oct 01 02:20	0°M		aaniumatian	10582 Jan 08 17:52	24°る47'00	1°48'51
evening set	105/5 Oct 01 02:20	3°M06'30		conjunction minimum elong	10582 Jan 08 17:52 10582 Jan 08 17:53	24°る47'00 24°る47'00	1°48'31 1°49'21
conjunction	10575 Oct 18 19:26	5° <b>™</b> 18'08	0°53'40	max. Earth dist.	10582 Jan 08 09:07		10.34790 AU
minimum elong	10575 Oct 18 19:24	5°M18'07	0°53'57	morning rise	10582 Jan 26 08:37	26° <b>る</b> 59'17	10.0 1,70 110
max. Earth dist.	10575 Oct 18 23:15	5° <b>™</b> 19'19	10.41893 AU	5 5	10582 Feb 21 00:42	0° <b>≈</b>	
morning rise	10575 Nov 05 14:34	7°M30'26		retrograde	10582 May 08 19:31	4° <b>≈</b> 44'33	
	10576 Jan 29 16:44	15° <b>M</b> ₊		opposition	10582 Jul 15 00:49	1° <b>≈</b> 20'53	2°09'18
retrograde	10576 Feb 18 10:28	15°M20'29		min. Earth dist.	10582 Jul 15 07:56	1° <b>≈</b> 19′28	8.35764 AU
	10576 Mar 09 03:56	15°RM			10582 Aug 01 09:16	30°Ŗる	
opposition	10576 Apr 26 18:28	11°M54'10	1°20'22	direct	10582 Sep 21 14:59	27° <b>る</b> 53'43	
min. Earth dist.	10576 Apr 26 16:05	11°M.54'39	8.40210 AU		10582 Nov 10 20:56	0° <b>≈</b>	
direct	10576 Jul 03 06:38	8°M29'39		evening set	10583 Jan 04 23:31	5° <b>≈</b> 49'08	
evening set	10576 Oct 03 22:54 10576 Oct 13 20:41	15° <b>Մ</b> 16° <b>Մ</b> ե11'40		conjunction	10583 Jan 22 15:24	8°≈01'34	1°38'10
evening set	103/0 Oct 13 20.41	10 11611 40		minimum elong	10583 Jan 22 15:26	8°≈01'34	1°38'37
conjunction	10576 Oct 31 14:57	18°M24'06	1°15'04	max. Earth dist.	10583 Jan 22 05:38		10.36742 AU
minimum elong	10576 Oct 31 14:55	18°M24'05	1°15'27	morning rise	10583 Feb 09 04:27	10° <b>≈</b> 13'10	
max. Earth dist.	10576 Oct 31 16:06	18°M24'28	10.38626 AU	S	10583 Mar 24 09:42	15° <b>≈</b>	
morning rise	10576 Nov 18 10:40	$20^{\circ}$ M $_37^{\circ}02$		retrograde	10583 May 22 04:48	17° <b>≈</b> 55'19	
retrograde	10577 Mar 03 00:50	28°M28'10			10583 Jul 22 15:16	15°R <b>≈</b>	
opposition	10577 May 10 00:56	25°M02'03	1°44'44	opposition	10583 Jul 28 11:06	14° <b>≈</b> 32′18	1°52'46
min. Earth dist.	10577 May 10 00:47	25°M02'05	8.37346 AU	min. Earth dist.	10583 Jul 28 19:09	14° <b>≈</b> 30'42	8.38153 AU
direct	10577 Jul 16 14:09	21°M36'49		direct	10583 Oct 05 08:05	11° <b>≈</b> 05'13	
evening set	10577 Oct 27 18:52	29°M23'02 0°⊀			10583 Dec 14 17:00 10584 Jan 18 19:06	15° <b>≈</b> 18° <b>≈</b> 59'19	
	10577 Nov 01 18:39	0, X,		evening set	10584 Jan 18 19:06	18°≈39'19	
conjunction	10577 Nov 14 13:42	1° <b>∡</b> 736′01	1°32'41	conjunction	10584 Feb 05 09:22	21° <b>≈</b> 10'59	1°22'23
minimum elong	10577 Nov 14 13:40	1° <b>∡</b> ³36′00	1°33'07	minimum elong	10584 Feb 05 09:25	21° <b>≈</b> 11′00	1°22'46
max. Earth dist.	10577 Nov 14 12:02	1° <b>∡</b> "35′30	10.36130 AU	max. Earth dist.	10584 Feb 04 22:52	21° <b>≈</b> 07'41	10.39599 AU
morning rise	10577 Dec 02 09:21	3° <b>∡</b> ′49′16		morning rise	10584 Feb 22 20:37	23° <b>≈</b> 21'45	
retrograde	10578 Mar 16 14:28	11° <b>∡</b> ′40'43		_	10584 Apr 30 18:09	0° <b>\</b>	
opposition	10578 May 23 08:58	8° × 14'54		retrograde	10584 Jun 03 10:20	1° <b>∺</b> 00′27	
min. Earth dist.	10578 May 23 10:56 10578 Jul 30 01:44	8° <b>х</b> 14'30 4° <b>х</b> 49'00	8.35309 AU	opposition	10584 Jul 07 14:48	30°R≈ 27°≈38'02	1°30'27
direct evening set	10578 Nov 10 19:27	4 <b>x</b> ·49 00 12° <b>x</b> 38'47		min. Earth dist.	10584 Aug 09 20:43 10584 Aug 10 04:45	27 ≈38 02 27°≈36'26	8.41378 AU
evening set	103/8 NOV 10 19.2/	12 × 3047		direct	10584 Oct 18 01:25	24°≈11'13	6.41376 AU
conjunction	10578 Nov 28 14:24	14° <b>₹</b> ′52'04	1°45'27	anoct	10585 Jan 14 04:43	0° <b>\</b>	
minimum elong	10578 Nov 28 14:22	14° <b>∡</b> 52'04	1°45'57	evening set	10585 Jan 31 10:24	2° <b>)</b> €02'56	
max. Earth dist.	10578 Nov 28 10:17	14° <b>∡</b> ′50'47	10.34497 AU	Č			
morning rise	10578 Dec 16 09:25	17° <b>∡</b> ¹05′23		conjunction	10585 Feb 17 22:48	4° <b>)</b> 13′38	1°02'28
retrograde	10579 Mar 30 04:40	24° <b>х</b> 56′19		minimum elong	10585 Feb 17 22:50	4° <b>)</b> 13′39	1°02'45
opposition	10579 Jun 05 18:02	21° <b>∡</b> ′30′54		max. Earth dist.	10585 Feb 17 12:52		10.43216 AU
min. Earth dist.	10579 Jun 05 21:45	21° <b>х</b> 30'09	8.34137 AU	morning rise	10585 Mar 07 08:00	6° <b>)</b> €23'24	
direct	10579 Aug 12 15:11	18° 🗷 04'25		retrograde	10585 Jun 16 13:06	13° <b>¥</b> 58'35	1002:42
evening set	10579 Nov 24 21:31	25° <b>∡</b> 57′01		opposition	10585 Aug 23 05:06	10° <b>¥</b> 36'40	1°03'42
conjunction	10579 Dec 12 16:15	28° <b>√</b> 10′24	1°52'38	min. Earth dist. direct	10585 Aug 23 12:06 10585 Oct 31 17:13	10° <b>)</b> (35'17 7° <b>)</b> (10'18	8.45274 AU
minimum elong	10579 Dec 12 16:13 10579 Dec 12 16:14	28° × 10'24 28° × 10'24	1°53'09	evening set	10586 Feb 13 21:00	14° <b>X</b> 58'45	
max. Earth dist.	10579 Dec 12 10:14 10579 Dec 12 10:09		10.33727 AU		21.00	- : ,(50 15	
	10579 Dec 27 05:57	0°පි		conjunction	10586 Mar 03 07:20	17° <b>¥</b> 08′22	0°39'32

minimum elong	10586 Mar 03 07:22	17° <b>¥</b> 08′22	0°39'43	min. Earth dist.	10591 Nov 08 17:13	25° <b>8</b> 42'28	8.70744 AU
max. Earth dist.	10586 Mar 02 23:00		10.47403 AU	direct	10592 Jan 17 21:28	22° <b>8</b> 20'00	
morning rise	10586 Mar 20 14:17	19° <b>∺</b> 16'58		evening set	10592 Apr 29 12:58	29° <b>8</b> 45'12	
retrograde	10586 Jun 29 15:08	26° <b>)</b> 48'45			10592 May 01 14:22	$\Pi$ °0	
opposition	10586 Sep 05 11:50	23° <b>¥</b> 27'15	0°34'00				
min. Earth dist.	10586 Sep 05 17:31	23° <b>∺</b> 26′09	8.49639 AU	conjunction	10592 May 16 08:42	1° <b>Ⅱ</b> 47'40	
direct	10586 Nov 14 04:34	20° <b>米</b> 01′27		minimum elong	10592 May 16 08:40	1° <b>Ⅱ</b> 47'40	
evening set	10587 Feb 27 02:43	27° <b>)</b> 46′05		max. Earth dist.	10592 May 16 11:47		10.72088 AU
				morning rise	10592 Jun 02 03:30	3° <b>Ⅱ</b> 49'56	
conjunction	10587 Mar 16 10:41	29° <b>)</b> 54′28	0°14'52	retrograde	10592 Sep 12 00:51	11° <b>Ⅲ</b> 12'03	
minimum elong	10587 Mar 16 10:42	29° <b>¥</b> 54'28	0°14'55	opposition	10592 Nov 20 16:21	7° <b>Ⅱ</b> 51'17	
behind sun begin	10587 Mar 16 07:58	29° <b>)</b> 53′38		min. Earth dist.	10592 Nov 20 12:43		8.73406 AU
behind sun end	10587 Mar 16 13:25	29° <b>)</b> 55′19		direct	10593 Jan 29 14:42	4° <b>Ⅱ</b> 29'57	
max. Earth dist.	10587 Mar 16 04:15		10.51935 AU	evening set	10593 May 11 19:41	11° <b>∏</b> 52'12	
	10587 Mar 17 04:30	0°Υ					
morning rise	10587 Apr 02 15:15	2° <b>Υ</b> 01'52		conjunction	10593 May 28 14:01	13° <b>Ⅱ</b> 54'02	
retrograde	10587 Jul 12 13:15	9° <b>Υ</b> 30'33		minimum elong	10593 May 28 14:00	13° <b>Ⅲ</b> 54'01	
opposition	10587 Sep 18 16:56	6° <b>Y</b> ′09'24	0°02'59	max. Earth dist.	10593 May 28 18:29		10.74303 AU
min. Earth dist.	10587 Sep 18 21:31	6°Υ08'31	8.54245 AU	morning rise	10593 Jun 14 08:18	15° <b>Ⅱ</b> 55'52	
desc. node	10587 Oct 24 09:08	3° <b>Υ</b> 41'20		retrograde	10593 Sep 24 14:27	23° <b>Ⅱ</b> 18'31	201444
direct	10587 Nov 27 13:43	2° <b>Υ</b> 44'14		opposition	10593 Dec 03 12:13	19° <b>Ⅱ</b> 57'33	
evening set	10588 Mar 11 03:38	10° <b>Y</b> 24'48		min. Earth dist.	10593 Dec 03 07:40		8.75204 AU
. ,.	10500 14 20 00 52	1200021150	0010122	direct	10594 Feb 11 06:08	16° <b>Ⅱ</b> 36'48	
conjunction	10588 Mar 28 08:52	12° <b>Υ</b> 31'50	-0°10'23 0°10'27	evening set	10594 May 24 00:55	23° <b>Ⅱ</b> 56'44	
minimum elong	10588 Mar 28 08:52	12° <b>Υ</b> 31'50 12° <b>Υ</b> 30'07	0°10'27	. ,.	105041 00 10 26	250 <b>T</b> 50U1	1052125
behind sun begin	10588 Mar 28 03:16	12° <b>Y</b> '30'07		conjunction	10594 Jun 09 18:36	25° <b>Ⅱ</b> 58'11 25° <b>Ⅱ</b> 58'11	-1°52′35 1°53′06
behind sun end	10588 Mar 28 14:27	$12^{\circ}$ \(\gamma \) 33 \(\frac{1}{3}\) 33 \(\frac{1}{3}\)	10.56576 AU	minimum elong max. Earth dist.	10594 Jun 09 18:35		1°53′06 10.75621 AU
max. Earth dist.	10588 Mar 28 03:54	12° <b>γ</b> '30'19 14° <b>γ</b> '38'01	10.565 /6 AU		10594 Jun 10 00:02	25°Щ59'51 27°Щ59'51	10.75621 AU
morning rise	10588 Apr 14 11:02	22° <b>Υ</b> 04'06		morning rise	10594 Jun 26 13:05	27° <b>Щ</b> 39'31	
retrograde opposition	10588 Jul 24 08:24 10588 Sep 30 20:15	18° <b>Υ</b> 43'13	0027151	rotro ara da	10594 Jul 13 21:24 10594 Oct 07 04:50	5° <b>©</b> 23'35	
min. Earth dist.	10588 Sep 30 20:15	18° <b>Υ</b> 42'30	8.58872 AU	retrograde opposition	10594 Oct 07 04.30 10594 Dec 16 07:08	2° <b>©</b> 02'19	2020124
direct	10588 Dec 09 20:27	18 <b>γ</b> 42 30 15° <b>γ</b> 18'47	6.36672 AU	min. Earth dist.	10594 Dec 16 07:08	2°502'19 2°503'22	8.76065 AU
evening set	10589 Mar 23 23:51	22° <b>Υ</b> 55'11		iiiii. Eartii tiist.	10595 Jan 14 07:52	2 <b>3</b> 03 22 30°R <b>Ⅱ</b>	8.70003 AU
evening set	10369 Widi 23 23.31	22   33 11		direct	10595 Feb 23 21:31	28° <b>∏</b> 42'01	
conjunction	10589 Apr 10 02:16	25° <b>Υ</b> ′00'54	-0°34'48	direct	10595 Apr 04 10:09	0°95	
minimum elong	10589 Apr 10 02:16 10589 Apr 10 02:15	25°Υ00'53	0°34'59	evening set	10595 Jun 05 05:21	6°9500'12	
max. Earth dist.	10589 Apr 09 22:26	24° <b>Y</b> ′59'43	10.61120 AU	evening set	10373 Juli 03 03.21	0 300 12	
morning rise	10589 Apr 27 02:14	27°Υ°05'53	10.01120 AC	conjunction	10595 Jun 21 23:16	8° <b>©</b> 01'38	-1°54'50
morning rise	10589 May 22 09:57	0°8		minimum elong	10595 Jun 21 23:17		1°55'22
retrograde	10589 Aug 06 02:17	4° <b>8</b> 29'59		max. Earth dist.	10595 Jun 22 06:33		10.75996 AU
opposition	10589 Oct 13 21:42	1° <b>8</b> 09'17	-0°57'03	morning rise	10595 Jul 08 18:35	10°903'27	
min. Earth dist.	10589 Oct 13 23:57	1° <b>8</b> 08'51	8.63308 AU	retrograde	10595 Oct 19 21:24	17° <b>©</b> 28'43	
	10589 Oct 29 06:50	30°RƳ		opposition	10595 Dec 29 01:41	14° <b>©</b> 07'02	-2°20'11
direct	10589 Dec 22 23:34	27° <b>Y</b> '45'38		min. Earth dist.			
	10590 Feb 13 18:39	0°8			10595 Dec 28 18:25	14° <b>©</b> 08'25	8.75961 AU
evening set		00		direct			8./3901 AU
Č				direct	10595 Dec 28 18:25 10596 Mar 07 10:38 10596 Jun 16 09:44	14°908'25 10°947'06 18°904'07	8./3901 AU
	10590 Apr 05 15:41	5° <b>8</b> 17'57			10596 Mar 07 10:38	10°5947'06	8.73901 AU
conjunction			-0°57'25	direct	10596 Mar 07 10:38	10°5947'06	
conjunction minimum elong	10590 Apr 05 15:41	5° <b>8</b> 17'57		direct evening set	10596 Mar 07 10:38 10596 Jun 16 09:44	10°547'06 18°504'07	-1°52'00
-	10590 Apr 05 15:41 10590 Apr 22 15:31	5°817'57 7°822'27 7°822'26		direct evening set conjunction	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45	10°947'06 18°904'07 20°905'49 20°905'50	-1°52'00
minimum elong	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29	5°817'57 7°822'27 7°822'26	0°57'42	direct evening set conjunction minimum elong	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46	10°947'06 18°904'07 20°905'49 20°905'50	-1°52'00 1°52'31
minimum elong max. Earth dist.	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31	5°817'57 7°822'27 7°822'26 7°821'50	0°57'42	direct evening set  conjunction minimum elong max. Earth dist.	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37	-1°52'00 1°52'31
minimum elong max. Earth dist.	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21	0°57'42	direct evening set  conjunction minimum elong max. Earth dist. morning rise	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06	-1°52'00 1°52'31 10.75415 AU
minimum elong max. Earth dist. morning rise	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01	5°&17'57  7°&22'27 7°&22'26 7°&21'50 9°&26'21 15°&	0°57'42	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18	-1°52'00 1°52'31 10.75415 AU
minimum elong max. Earth dist. morning rise	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08	0°57'42 10.65354 AU	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08	-1°52'00 1°52'31 10.75415 AU -2°13'37
minimum elong max. Earth dist. morning rise retrograde	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37	5°817'57 7°822'27 7°822'26 7°821'50 9°826'21 15°8 16°849'08 15°88 13°828'30	0°57'42 10.65354 AU	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44	-1°52'00 1°52'31 10.75415 AU -2°13'37
minimum elong max. Earth dist. morning rise retrograde opposition	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21	5°817'57 7°822'27 7°822'26 7°821'50 9°826'21 15°8 16°849'08 15°88 13°828'30	0°57'42 10.65354 AU -1°23'18	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22	-1°52'00 1°52'31 10.75415 AU -2°13'37
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08  15°&& 13°&28'30  13°&28'28  10°&05'39  15°&	0°57'42 10.65354 AU -1°23'18	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33 10597 Jun 27 05:58	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$1	-1°52'00 1°52'31 10.75415 AU -2°13'37
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08  15°&& 13°&28'30  13°&28'28  10°&05'39	0°57'42 10.65354 AU -1°23'18	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct  evening set  conjunction	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33 10597 Jun 27 05:58	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$09'56	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Apr 18 03:51	5°817'57  7°822'27  7°822'26  7°821'50  9°826'21  15°8  16°849'08  15°88  13°828'30  13°828'28  10°805'39  15°8  17°834'13	0°57'42 10.65354 AU -1°23'18 8.67330 AU	direct evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$09'56	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12 1°44'41
minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Mar 26 17:58 10591 Apr 18 03:51 10591 May 05 01:26	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08 15°&& 13°&28'30 13°&28'28 10°&05'39 15°& 17°&34'13	0°57'42 10.65354 AU -1°23'18 8.67330 AU	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.	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07 10597 Jul 15 22:00	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$02'14 2°\$\Omega\$12'14 2°\$\Omega\$12'15 2°\$\Omega\$15'15	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12
minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong	10590 Apr 05 15:41 10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Mar 26 17:58 10591 Apr 18 03:51 10591 May 05 01:26 10591 May 05 01:24	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08 15°&& 13°&28'30 13°&28'28 10°&05'39 15°& 17°&34'13	0°57'42 10.65354 AU -1°23'18 8.67330 AU -1°17'13 1°17'36	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. morning rise	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07 10597 Jul 15 22:00 10597 Aug 01 11:13	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$12'14 2°\$\Omega\$12'15 2°\$\Omega\$15'15 4°\$\Omega\$15'15	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12 1°44'41
minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	10590 Apr 05 15:41  10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Mar 26 17:58 10591 Apr 18 03:51  10591 May 05 01:26 10591 May 05 01:24 10591 May 05 02:06	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08 15°&& 13°&28'30 13°&28'28 10°&05'39 15°& 17°&34'13  19°&37'36 19°&37'36 19°&37'48	0°57'42 10.65354 AU -1°23'18 8.67330 AU	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. morning rise retrograde	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07 10597 Jul 15 22:00 10597 Aug 01 11:13 10597 Nov 13 10:30	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$12'14 2°\$\Omega\$12'15 2°\$\Omega\$15'15 11°\$\Omega\$44'39	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12 1°44'41 10.73900 AU
minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	10590 Apr 05 15:41  10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Mar 26 17:58 10591 Apr 18 03:51  10591 May 05 01:26 10591 May 05 01:24 10591 May 05 02:06 10591 May 21 21:33	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08 15°&& 13°&28'30 13°&28'28 10°&05'39 15°& 17°&34'13  19°&37'36 19°&37'36 19°&37'36 19°&37'36 19°&37'38	0°57'42 10.65354 AU -1°23'18 8.67330 AU -1°17'13 1°17'36	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. morning rise retrograde opposition	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:45 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07 10597 Jul 15 12:07 10597 Jul 15 22:00 10597 Aug 01 11:13 10597 Nov 13 10:30 10598 Jan 22 14:18	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$12'14 2°\$\Omega\$12'15 2°\$\Omega\$15'15 11°\$\Omega\$44'39 8°\$\Omega\$21'58	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12 1°44'41 10.73900 AU -2°01'05
minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	10590 Apr 05 15:41  10590 Apr 22 15:31 10590 Apr 22 15:29 10590 Apr 22 13:31 10590 May 09 13:28 10590 Jul 03 01:01 10590 Aug 18 17:18 10590 Oct 06 02:37 10590 Oct 26 21:21 10590 Oct 26 21:28 10591 Jan 04 23:55 10591 Mar 26 17:58 10591 Apr 18 03:51  10591 May 05 01:26 10591 May 05 01:24 10591 May 05 02:06	5°&17'57  7°&22'27  7°&22'26  7°&21'50  9°&26'21  15°& 16°&49'08 15°&& 13°&28'30 13°&28'28 10°&05'39 15°& 17°&34'13  19°&37'36 19°&37'36 19°&37'48	0°57'42 10.65354 AU -1°23'18 8.67330 AU -1°17'13 1°17'36 10.69064 AU	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. morning rise retrograde	10596 Mar 07 10:38 10596 Jun 16 09:44 10596 Jul 03 04:46 10596 Jul 03 13:58 10596 Jul 20 01:35 10596 Oct 31 14:50 10597 Jan 09 20:01 10597 Jan 09 11:36 10597 Mar 19 22:33 10597 Jun 27 05:58 10597 Jun 28 15:23 10597 Jul 15 12:05 10597 Jul 15 12:07 10597 Jul 15 22:00 10597 Aug 01 11:13 10597 Nov 13 10:30	10°\$47'06 18°\$04'07 20°\$05'49 20°\$05'50 20°\$08'37 22°\$08'06 29°\$35'18 26°\$13'08 26°\$14'44 22°\$53'22 0°\$\Omega\$00'56 2°\$\Omega\$12'14 2°\$\Omega\$12'15 2°\$\Omega\$15'15 11°\$\Omega\$44'39 8°\$\Omega\$21'58	-1°52'00 1°52'31 10.75415 AU -2°13'37 8.74898 AU -1°44'12 1°44'41 10.73900 AU

evening set	10598 Jul 10 22:58	12° <b>Ω</b> 19′02
conjunction	10598 Jul 27 21:55	14° <b>Ω</b> 22'11 -1°31'42
minimum elong	10598 Jul 27 21:58	14°Ω22'12 1°32'08
max. Earth dist.	10598 Jul 28 07:09	14°Ω25'00 10.71494 AU
	10598 Aug 02 02:07	15° <b>Ω</b>
morning rise	10598 Aug 13 23:57	16° <b>Ω</b> 26'13
retrograde	10598 Nov 26 07:19	23° <b>Ω</b> 58'03
opposition	10599 Feb 04 09:10	20° <b>Ω</b> 34'48 -1°43'02
min. Earth dist.	10599 Feb 04 01:32	20° <b>Ω</b> 36'16 8.70042 AU
direct	10599 Apr 13 22:01	17° <b>Ω</b> 14'48
evening set	10599 Jul 23 09:07	24° <b>Ω</b> 32'43
conjunction	10599 Aug 09 10:55	26° <b>Ω</b> 36'57 -1°14'59
minimum elong	10599 Aug 09 10:57	26° <b>Ω</b> 36'58 1°15'20
max. Earth dist.	10599 Aug 09 19:41	26° <b>Ω</b> 39'38 10.68240 AU
morning rise	10599 Aug 26 16:09	28° <b>Ω</b> 42'11
	10599 Sep 06 17:28	0° <b>m</b>
retrograde	10599 Dec 09 05:05	6° № 16'46
opposition	10600 Feb 17 04:44	2° m 52'53 -1°20'09
min. Earth dist.	10600 Feb 16 21:40	2°M 54'15 8.66351 AU
	10600 Apr 03 09:20	30° <b>₹Ω</b>
direct	10600 Apr 26 12:34	29° <b>Ω</b> 32′29
	10600 May 19 09:26	0° <b>™</b>
evening set	10600 Aug 04 23:00	6° <b>m</b> 52'19
conjunction	10600 Aug 22 04:03	8° m 57'51 -0°54'41
minimum elong	10600 Aug 22 04:05	8° m 57'52 0°54'56
max. Earth dist.	10600 Aug 22 12:28	9°Mp00'26 10.64203 AU
morning rise	10600 Sep 08 12:32	11° Mp 04'25
retrograde	10600 Dec 22 07:22	18° <b>m</b> 41'57
opposition	10601 Mar 02 01:11	15° Mp 17'29 -0°53'21
min. Earth dist.	10601 Mar 01 18:34	15°Mp 18'46 8.61959 AU
direct	10601 May 09 03:33	11° <b>m</b> 56'33
evening set	10601 Aug 17 17:23	19° <b>m</b> 19'08
conjunction	10601 Sep 04 01:42	21° m 26'05 -0°31'40
minimum elong	10601 Sep 04 01:43	21° m/26'06 0°31'48
max. Earth dist.	10601 Sep 04 09:27	21° Mp 28'28 10.59574 AU
morning rise	10601 Sep 21 13:19	23° m 34'04
	10601 Nov 26 17:40	0∘ <b>亚</b>
retrograde	10602 Jan 04 12:23	1° <b>£</b> 14'37