	1100 Jan 05 j 14:06	0°M		minimum elong	1105 Dec 15 j 06:53	0° <b>る</b> 02'18	0°37'27
retrograde	1100 Feb 02 j 08:49	0°M39'33		max. Earth dist.	1105 Dec 14 j 24:00	0° <b>ට</b> 00'16	11.05758 AU
	1100 Mar 01 j 13:17	30° <b>₹</b> Ω		morning rise	1105 Dec 31 j 21:41	1° <b>る</b> 59'06	
opposition	1100 Apr 11 j 05:00	27° <b>≏</b> 21'23	2°44'52	retrograde	1106 Apr 12 j 05:42	9° <b>る</b> 01'52	
min. Earth dist.	1100 Apr 11 j 06:07	27° <b>≏</b> 21'11	8.88744 AU	opposition	1106 Jun 22 j 01:06	5°₹43'35	0°29'29
direct	1100 Jun 21 j 05:41	23° <b>Ω</b> 58'24		min. Earth dist.	1106 Jun 22 j 07:03	5° <b>る</b> 42'29	9.03946 AU
	1100 Sep 21 j 23:48	0° <b>M</b>		direct	1106 Aug 31 j 15:17	2° <b>る</b> 25'24	
evening set	1100 Oct 03 j 09:05	1°ML18'08		evening set	1106 Dec 10 j 00:49	9° <b>る</b> 25'35	
conjunction	1100 Oct 20 j 04:21	3° <b>™</b> 17′25	2°11'05	conjunction	1106 Dec 26 j 15:50	11° <b>ප්</b> 22'56	0°10'41
minimum elong	1100 Oct 20 j 04:22	3° <b>™</b> 17'25	2°11'05	minimum elong	1106 Dec 26 j 15:51	11° <b>る</b> 22'57	0°10'41
max. Earth dist.	1100 Oct 20 j 02:09	3°M16'46	10.92711 AU	behind sun begin	1106 Dec 26 j 10:25	11° <b>පි</b> 21'21	
morning rise	1100 Nov 05 j 20:03	5°M15'42		behind sun end	1106 Dec 26 j 21:17	11° <b>る</b> 24'32	
retrograde	1101 Feb 13 j 04:51	12°M17'09	202.42.4	max. Earth dist.	1106 Dec 26 j 09:07		11.01558 AU
opposition	1101 Apr 23 j 11:52	8°M59'38	2°34'34	morning rise	1107 Jan 12 j 07:56	13°る20'40	
min. Earth dist.	1101 Apr 23 j 14:30	8°M59'09	8.96535 AU	retrograde	1107 Apr 24 j 08:52	20°る28'17	
direct	1101 Jul 03 j 17:05	5°M37'52		desc. node	1107 May 21 j 23:52	19°る52'24 17°る09'03	0002152
evening set	1101 Oct 15 j 03:28	12°M51'20		opposition	1107 Jul 04 j 06:25	17°る09'03	
amiumatian	1101 Oct 21 : 20:27	1.49 <b>m</b> 40!15	2000116	min. Earth dist.	1107 Jul 04 j 12:03 1107 Sep 12 j 11:02	17°808'00 13° <b>8</b> 50'54	8.98590 AU
conjunction	1101 Oct 31 j 20:27	14°M49'15 14°M49'16	2°00'16 2°00'16	direct evening set	1107 Sep 12 j 11:02 1107 Dec 21 j 12:08	13°050'54 20°る52'49	
minimum elong max. Earth dist.	1101 Oct 31 j 20:29 1101 Oct 31 j 16:33		10.99602 AU	evening set	1107 Dec 21 J 12.08	20 03249	
max. Earm dist.	1101 Oct 31 j 16.33 1101 Nov 02 j 08:46	14 11648 00 15°M	10.99602 AU	conjunction	1108 Jan 07 j 04:07	22° <b>る</b> 51'13	0°16'51
morning rise	1101 Nov 02 j 08:40 1101 Nov 17 j 10:41	16°M46'21		minimum elong	1108 Jan 07 j 04:06	22° <b>る</b> 51'12	
retrograde	1102 Feb 24 j 22:41	23°M45'07		max. Earth dist.	1108 Jan 06 j 21:36		10.95118 AU
opposition	1102 May 05 j 16:00	20°M27'58	2°18'15	morning rise	1108 Jan 23 j 21:49	24°る50'12	10.93110710
min. Earth dist.	1102 May 05 j 10:00	20°M27'21	9.02432 AU	morning rise	1108 Mar 15 j 06:37	0°≈	
direct	1102 Jul 15 j 22:50	17° <b>M</b> 07'19	J.02.02.110	retrograde	1108 May 05 j 18:24	2°≈04'15	
evening set	1102 Oct 26 j 16:36	24°M15'33			1108 Jun 28 j 03:36	30°Rる	
				opposition	1108 Jul 15 j 15:01	28° <b>පි</b> 43'51	-0°37'32
conjunction	1102 Nov 12 j 08:10	26°M12'32	1°44'48	min. Earth dist.	1108 Jul 15 j 20:22	28° <b>る</b> 42'52	8.91111 AU
minimum elong	1102 Nov 12 j 08:12	26°M12'32	1°44'47	direct	1108 Sep 23 j 09:01	25° <b>る</b> 25'28	
max. Earth dist.	1102 Nov 12 j 03:53	26°M11'16	11.04491 AU		1108 Dec 09 j 19:30	0° <b>≈</b>	
morning rise	1102 Nov 28 j 21:31	28°M08'55		evening set	1109 Jan 01 j 04:24	2° <b>≈</b> 30'44	
	1102 Dec 15 j 10:26	0° <b>∡</b> 7		-	-		
retrograde	1103 Mar 08 j 16:37	5° <b>х</b> 06′25		conjunction	1109 Jan 17 j 21:32	4° <b>≈</b> 30'31	-0°44'00
opposition	1103 May 17 j 18:18	1° <b>х</b> 49′23	1°56'42	minimum elong	1109 Jan 17 j 21:30	4° <b>≈</b> 30'30	0°43'59
min. Earth dist.	1103 May 17 j 21:47	1° <b>∡</b> °48'44	9.06216 AU	max. Earth dist.	1109 Jan 17 j 14:21	4° <b>≈</b> 28′21	10.86696 AU
	1103 Jun 12 j 22:36	30°RM		morning rise	1109 Feb 03 j 17:22	6° <b>≈</b> 31′08	
direct	1103 Jul 28 j 00:48	28°M29'42		retrograde	1109 May 18 j 10:18	13° <b>≈</b> 52'52	
	1103 Sep 09 j 20:12	0° <b>⊀</b> ¹		opposition	1109 Jul 28 j 03:40	10° <b>≈</b> 31′10	-1°10'18
evening set	1103 Nov 07 j 02:02	5° <b>∡</b> ³33'51		min. Earth dist.	1109 Jul 28 j 09:17	10° <b>≈</b> 30′07	8.81844 AU
				direct	1109 Oct 05 j 08:49	7° <b>≈</b> 12'16	
conjunction	1103 Nov 23 j 16:46		1°25'20	evening set	1110 Jan 13 j 02:54	14° <b>≈</b> 22'22	
minimum elong	1103 Nov 23 j 16:49	7° <b>∡</b> ³30′22			1110 Jan 18 j 08:48	15° <b>≈</b>	
max. Earth dist.	1103 Nov 23 j 12:16		11.07200 AU				
morning rise	1103 Dec 10 j 05:55	9° <b>∡</b> 126'27		conjunction	1110 Jan 29 j 21:37	16°≈23'50	
retrograde	1104 Mar 19 j 11:50	16° <b>₹</b> 24'11	1020146	minimum elong	1110 Jan 29 j 21:34	16°≈23'49	1°09'45
opposition	1104 May 28 j 20:07	13°×707'01	1°30'46	max. Earth dist.	1110 Jan 29 j 14:29		10.76678 AU
min. Earth dist.	1104 May 29 j 00:22	13°×706'14	9.07764 AU	morning rise	1110 Feb 15 j 19:52	18°≈26'22	
direct	1104 Aug 07 j 22:20	9° <b>х</b> 48'06		retrograde	1110 May 31 j 06:46	25°≈56'53	1940!46
evening set	1104 Nov 17 j 09:22	16° <b>∡</b> 749'27		opposition min. Earth dist.	1110 Aug 09 j 21:15 1110 Aug 10 j 02:33	22°≈33'42 22°≈32'41	8.71210 AU
agniunation	1104 Dec. 02 i 22:42	100.7/15151	1°02'37	direct	1110 Aug 10 j 02.33 1110 Oct 17 j 14:01	19°≈14'02	6.71210 AU
conjunction minimum elong	1104 Dec 03 j 23:42 1104 Dec 03 j 23:43	18° <b>₹</b> 45'51 18° <b>₹</b> 45'52		evening set	1110 Oct 17 j 14:01 1111 Jan 25 j 08:51	19°≈1402 26°≈30'18	
max. Earth dist.	1104 Dec 03 j 23:43 1104 Dec 03 j 17:58		11.07637 AU	evening set	1111 Jan 25 J Vo.51	20 ₹3018	
morning rise	1104 Dec 20 j 13:26	18 <b>x</b> ·44 10 20° <b>x</b> 42'07	11.0/03/ AU	conjunction	1111 Feb 11 j 05:41	28° <b>≈</b> 33'44	-1°32'57
retrograde	1104 Dec 20 j 13:20 1105 Mar 31 j 06:44	20 × 42 07 27°× 41'36		minimum elong	1111 Feb 11 j 05:38	28°≈33'44	
opposition	1105 Jun 09 j 22:10	24° <b>×</b> <sup>7</sup> 24'01	1°01'22	max. Earth dist.	1111 Feb 11 j 03:38 1111 Feb 11 j 00:03		1 32 37 10.65505 AU
min. Earth dist.	1105 Jun 10 j 03:41	24° × 24°01 24° × 23'00	9.07015 AU	max. Darm dist.	1111 Feb 22 j 23:23	28 <b>≈</b> 32 01 0° <b>H</b>	10.03303 AU
direct	1105 Aug 19 j 18:30	21°×705'35	, 010 110	morning rise	1111 Feb 28 j 06:31	0° <b>)</b> 38′26	
evening set	1105 Nov 28 j 16:28	28°×705'37		retrograde	1111 Jun 13 j 12:36	8° <b>)</b> 18'30	
	1105 Dec 14 j 23:05	0°る		opposition	1111 Aug 22 j 20:17	4° <b>)</b> €53'45	-2°07'26
		. —		min. Earth dist.	1111 Aug 23 j 00:17	4° <b>)</b> 52′58	8.59681 AU
conjunction	1105 Dec 15 j 06:52	0° <b>る</b> 02'17	0°37'26	direct	1111 Oct 30 j 01:51	1° <b>)</b> €33'08	
•	,				3		

evening set	1112 Feb 06 j 23:44	8° <b>¥</b> 56'38			1118 Apr 28 j 10:11	$\Pi^{\circ}0$	
C	J			evening set	1118 Apr 30 j 03:36	0°Щ13′13	
conjunction	1112 Feb 23 j 23:13	11° <b>∺</b> 02′20	-1°52'20				
minimum elong	1112 Feb 23 j 23:11	11° <b>)</b> 02'19		conjunction	1118 May 18 j 03:45	2° <b>∏</b> 33′24	
max. Earth dist.	1112 Feb 23 j 19:36		10.53683 AU	minimum elong	1118 May 18 j 03:49	2° <b>∏</b> 33'25	
morning rise	1112 Mar 12 j 02:58	13° <b>)</b> €09'26		max. Earth dist.	1118 May 18 j 09:57		10.01169 AU
retrograde	1112 Jun 26 j 03:06	20° <b>¥</b> 59'17	2020144	morning rise	1118 Jun 05 j 06:06	4° <b>∏</b> 54'20	
opposition min. Earth dist.	1112 Sep 04 j 00:58 1112 Sep 04 j 03:07	17° <b>¥</b> 33'00	-2°28'44 8.47783 AU	retrograde opposition	1118 Sep 19 j 09:27 1118 Nov 25 j 13:13	13° <b>Ⅱ</b> 15'53 9° <b>Ⅱ</b> 45'41	1940/17
direct	1112 Sep 04 J 03.07 1112 Nov 10 j 17:36	17 <b>X</b> 32 34 14° <b>X</b> 11'17	6.47763 AU	min. Earth dist.	1118 Nov 25 j 07:50	9° <b>П</b> 45'41	8.00415 AU
evening set	1113 Feb 19 j 00:23	21° <b>)</b> (42'53		direct	1119 Jan 31 j 01:00	6° <b>П</b> 17'04	8.00413 AC
e venning see	1113160 17 00.23	21 /(1233		evening set	1119 May 15 j 05:47	14° <b>∏</b> 30'10	
conjunction	1113 Mar 08 j 02:59	23° <b>)</b> 51'04	-2°06'40				
minimum elong	1113 Mar 08 j 02:58	23° <b>)</b> 51′04	2°06'40	conjunction	1119 Jun 02 j 09:04	16° <b>Ⅱ</b> 51′23	-1°06'04
max. Earth dist.	1113 Mar 08 j 00:39	23° <b>)</b> € 50′20	10.41768 AU	minimum elong	1119 Jun 02 j 09:07	16° <b>Ⅱ</b> 51′24	1°06'05
morning rise	1113 Mar 25 j 10:10	26° <b>)</b> €00'45		max. Earth dist.	1119 Jun 02 j 16:40	16° <b>Ⅱ</b> 53'52	10.00256 AU
	1113 Apr 29 j 09:12	$0$ ° $\mathbf{\Upsilon}$		morning rise	1119 Jun 20 j 13:17	19° <b>Ⅱ</b> 12'55	
retrograde	1113 Jul 10 j 00:40	4° <b>Υ</b> 00'06		retrograde	1119 Oct 03 j 22:54	27° <b>∏</b> 31'13	
opposition	1113 Sep 17 j 11:36	0° <b>Υ</b> 32'24		opposition	1119 Dec 09 j 19:02	24° <b>∏</b> 01'42	
min. Earth dist.	1113 Sep 17 j 12:25		8.36075 AU	min. Earth dist.	1119 Dec 09 j 12:50		8.00938 AU
t' .	1113 Sep 24 j 07:58	30° <b>₹</b>		direct	1120 Feb 14 j 12:03	20° <b>I</b> I32'27	
direct	1113 Nov 23 j 16:27	27° <b>米</b> 09′29 0° <b>Υ</b>		evening set	1120 May 29 j 09:55 1120 Jun 07 j 20:15	28°∏47'09 0° <b>©</b>	
evening set	1114 Jan 20 j 02:46 1114 Mar 04 j 11:11	0° <b>γ</b> 4° <b>Υ</b> 49'41			1120 Jun 0/ J 20:15	0.50	
evening set	1114 Mai 04 j 11.11	4 1 42 41		conjunction	1120 Jun 16 j 14:45	1°508'28	-0°34'46
conjunction	1114 Mar 21 j 17:25	7° <b>Y</b> ′00′29	-2°14'48	minimum elong	1120 Jun 16 j 14:47	1°508'29	
minimum elong	1114 Mar 21 j 17:24	7° <b>Υ</b> 00'29	2°14'48	max. Earth dist.	1120 Jun 16 j 22:55		10.02299 AU
max. Earth dist.	1114 Mar 21 j 16:13		10.30346 AU	morning rise	1120 Jul 04 j 19:12	3°\$29'40	
morning rise	1114 Apr 08 j 04:28	9° <b>Υ</b> 12'49		retrograde	1120 Oct 17 j 08:21	11° <b>5</b> 42'21	
retrograde	1114 Jul 24 j 04:02	17° <b>Ƴ</b> 20'47		opposition	1120 Dec 22 j 23:05	8°9513'52	-0°22'52
opposition	1114 Oct 01 j 03:56	13° <b>Y</b> 51'56	-2°49'15	min. Earth dist.	1120 Dec 22 j 16:55	8°915'08	8.04392 AU
min. Earth dist.	1114 Oct 01 j 03:45	13° <b>Y</b> 51'58	8.25153 AU	direct	1121 Feb 28 j 00:36	4° <b>5</b> 544'19	
direct	1114 Dec 06 j 23:53	10° <b>Y</b> 27'43		evening set	1121 Jun 13 j 12:49	12° <b>©</b> 58'27	
arranina aat	1115 1 10:00 00	1000017121					
evening set	1115 Mar 18 j 08:08	18° <b>Ƴ</b> 16'31				_	
_	-		2015140	conjunction	1121 Jul 01 j 17:23	15° <b>©</b> 18'55	
conjunction	1115 Apr 04 j 18:39	20° <b>Ƴ</b> 30'01		minimum elong	1121 Jul 01 j 17:24	15° <b>©</b> 18'55	-0°01'36 0°01'36
conjunction minimum elong	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40	20° <b>Y</b> 30'01 20° <b>Y</b> 30'01	2°15'49	minimum elong behind sun begin	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01	15°©18'55 15°©16'33	
conjunction minimum elong max. Earth dist.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50	20° <b>Y</b> 30'01 20° <b>Y</b> 30'01 20° <b>Y</b> 30'05		minimum elong behind sun begin behind sun end	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46	15°©18'55 15°©16'33 15°©21'17	0°01'36
conjunction minimum elong	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01	2°15'49	minimum elong behind sun begin behind sun end max. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19	15°©18'55 15°©16'33 15°©21'17 15°©21'27	
conjunction minimum elong max. Earth dist. morning rise	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01 0°8	2°15'49	minimum elong behind sun begin behind sun end max. Earth dist. morning rise	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24	15°©18'55 15°©16'33 15°©21'17 15°©21'27 17°©38'51	0°01'36
conjunction minimum elong max. Earth dist.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°8'00'00	2°15'49	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01	15°©18'55 15°©16'33 15°©21'17 15°©21'27 17°©38'51 17°©35'14	0°01'36
conjunction minimum elong max. Earth dist. morning rise	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16	20°Y30'01 20°Y30'05 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY	2°15'49 10.20029 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24	15°©18'55 15°©16'33 15°©21'17 15°©21'27 17°©38'51	0°01'36
conjunction minimum elong max. Earth dist. morning rise retrograde	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°8'00'00	2°15'49 10.20029 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07	0°01'36 10.07180 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°8Y 27°Y30'15	2°15'49 10.20029 AU -2°46'05	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55	0°01'36 10.07180 AU 0°18'36
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16	20°Y30'01 20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°8Y 27°Y30'15 27°Y30'29	2°15'49 10.20029 AU -2°46'05	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07	0°01'36 10.07180 AU 0°18'36
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45	2°15'49 10.20029 AU -2°46'05	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Mar 14 j 13:00 1122 Jun 28 j 11:29	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23	0°01'36 10.07180 AU 0°18'36 8.10570 AU
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Mar 31 j 14:41	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°8Y 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37	2°15'49 10.20029 AU -2°46'05 8.15619 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Mar 14 j 13:00 1122 Jun 28 j 11:29	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53	0°01'36 10.07180 AU 0°18'36 8.10570 AU 0°31'21
conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set conjunction	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Mar 31 j 14:41 1116 Apr 18 j 05:56	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37	2°15'49 10.20029 AU -2°46'05 8.15619 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53 29°@17'36 29°@17'36	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21
conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 12:24	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53 29°@17'36 29°@17'35 29°@17'35	0°01'36 10.07180 AU 0°18'36 8.10570 AU 0°31'21
conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Apr 18 j 05:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26	2°15'49 10.20029 AU -2°46'05 8.15619 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 12:24 1122 Jul 22 j 02:06	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\$\alpha\$	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21
conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Apr 18 j 05:58 1116 May 06 j 01:25	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05	15°\$18'55 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$ 1°\$35'27	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21
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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Apr 18 j 08:05 1116 May 06 j 01:25 1116 Aug 21 j 02:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53 29°@17'36 29°@17'35 29°@19'57 0°\$\Omega\$ 1°\$\Omega\$35'27 9°\$\Omega\$2'06	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU
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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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1116 Oct 28 j 00:32 1117 Jan 02 j 12:12	20°Y30'01 20°Y30'05 22°Y45'01 0°B 1°B00'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°B 2°B01'37 4°B17'44 4°B17'45 4°B18'26 6°B35'12 14°B55'03 11°B24'44 11°B25'14 7°B58'02	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Mar 14 j 13:00 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 15:23 1123 Mar 28 j 23:41	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53 29°@17'36 29°@17'35 29°@19'57 0°A 1°A35'27 9°A32'06 6°A06'22 6°A07'30 2°A37'10	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU
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.	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Apr 18 j 05:58 1116 Apr 18 j 05:58 1116 Apr 18 j 05:58 1116 Aug 21 j 02:58 1116 Oct 28 j 02:56 1116 Oct 28 j 00:32	20°Y30'01 20°Y30'05 22°Y45'01 0°B 1°B00'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°B 2°B01'37 4°B17'44 4°B17'45 4°B18'26 6°B35'12 14°B55'03 11°B24'44 11°B25'14	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Mar 14 j 13:00 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 5:23	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\$\$\$10'\$\$1 0°\$\$\$10'\$\$1 0°\$\$\$10'\$\$27 9°\$\$32'06 6°\$\$06'22 6°\$\$07'30	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU
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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1117 Apr 07 j 01:07	20°Y30'01 20°Y30'05 22°Y45'01 0°B 1°B00'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°B 2°B01'37 4°B17'44 4°B17'45 4°B18'26 6°B35'12 14°B55'03 11°B24'44 11°B25'14 7°B58'02	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Mar 14 j 13:00 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 15:23 1123 Mar 28 j 23:41	15°@18'55 15°@16'33 15°@21'17 15°@21'27 17°@38'51 17°@35'14 25°@44'07 22°@16'55 22°@18'07 18°@47'23 26°@58'53 29°@17'36 29°@17'35 29°@19'57 0°A 1°A35'27 9°A32'06 6°A06'22 6°A07'30 2°A37'10	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU
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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1117 Apr 07 j 01:07	20°Y30'01 20°Y30'05 22°Y45'01 0°B 1°B00'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°B 2°B01'37 4°B17'44 4°B17'45 4°B18'26 6°B35'12 14°B55'03 11°B24'44 11°B25'14 7°B58'02	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.  direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jun 28 j 11:29  1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 15:23 1123 Mar 28 j 23:41 1123 Jul 13 j 03:41	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$10'\$\$35'27 9°\$\$32'06 6°\$\$06'22 6°\$\$07'30 2°\$\$37'10 10°\$\$\$44'10	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU
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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03 11°824'44 11°825'14 7°858'02 15°8 16°801'58	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist.  direct evening set  conjunction conjunction	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 01:19 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Jul 19 j 15:23 1123 Jan 19 j 15:23 1123 Jan 19 j 15:23 1123 Jul 13 j 03:41 1123 Jul 31 j 02:54	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\$\tau\$ 1°\$\tau\$35'27 9°\$\tau\$32'06 6°\$\tau\$06'22 6°\$\tau\$07'30 2°\$\tau\$37'10 10°\$\tau\$44'10 13°\$\tau\$00'27 13°\$\tau\$00'26 13°\$\tau\$02'31	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU
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	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03 11°824'44 11°825'14 7°858'02 15°8 16°801'58	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 5:23 1123 Mar 28 j 23:41 1123 Jul 31 j 02:54 1123 Jul 31 j 02:51 1123 Jul 31 j 02:51 1123 Jul 31 j 09:22 1123 Aug 15 j 20:40	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$19'57 0°\$\$\$\$27 9°\$32'06 6°\$06'22 6°\$07'30 2°\$37'10 10°\$\$A44'10 13°\$\$00'27 13°\$\$00'26 13°\$\$00'231 15°\$\$\$\$\$	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU  1°01'54 1°01'53
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  conjunction min. Earth dist. direct	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:58	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03 11°824'44 11°825'14 7°858'02 15°8 16°801'58	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jul 19 j 20:57 1123 Jun 19 j 15:23 1123 Jul 31 j 02:54 1123 Jul 31 j 02:51 1123 Jul 31 j 02:51 1123 Jul 31 j 02:51 1123 Jul 31 j 02:22 1123 Aug 15 j 20:40 1123 Aug 17 j 22:34	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\Omega\$1 1°\$\Omega\$35'27 9°\$\Omega\$32'06 6°\$\Omega\$06'22 6°\$\Omega\$07'30 2°\$\Omega\$7'10 10°\$\Omega\$44'10 13°\$\Omega\$00'26 13°\$\Omega\$00'26 13°\$\Omega\$02'31 15°\$\Omega\$15'58	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU  1°01'54 1°01'53
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  conjunction minimum elong max. Earth dist. direct	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 A	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03 11°824'44 11°825'14 7°858'02 15°8 16°801'58 18°820'24 18°821'47 20°839'53 29°801'58	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU -1°54'48 1°54'48 10.04972 AU	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 5:23 1123 Jul 31 j 02:51 1123 Jul 31 j 02:22 1123 Aug 15 j 20:40 1123 Aug 17 j 22:34 1123 Nov 27 j 17:34	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'36 29°\$19'57 0°\$\Omega\$1 1°\$\Omega\$35'27 9°\$\Omega\$32'06 6°\$\Omega\$06'22 6°\$\Omega\$07'30 2°\$\Omega\$7'10 10°\$\Omega\$44'10 13°\$\Omega\$00'26 13°\$\Omega\$00'26 13°\$\Omega\$00'231 15°\$\Omega\$15'35 23°\$\Omega\$03'01	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU  1°01'54 1°01'53 10.24045 AU
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  conjunction minimum elong max. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 Apr 18 j 02:58 1116 Oct 28 j 02:56 1116 Oct 28 j 02:56 1116 Oct 28 j 00:32 1117 Jan 02 j 12:12 1117 Apr 07 j 01:07 1117 Apr 15 j 05:48  1117 May 03 j 01:46 1117 May 03 j 01:49 1117 May 03 j 06:04 1117 May 03 j 06:04 1117 Sep 04 j 18:21 1117 Nov 11 j 07:19	20°Y30'01 20°Y30'05 22°Y45'01 0°B 1°B00'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°B 2°B01'37  4°B17'44 4°B17'45 4°B18'26 6°B35'12 14°B55'03 11°B24'44 11°B25'14 7°B58'02 15°B 16°B01'58 18°B20'24 18°B21'47 20°B39'53 29°B01'58 25°B31'31	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU -1°54'48 10.04972 AU -2°10'51	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 5:23 1123 Mar 28 j 23:41 1123 Jul 31 j 03:41 1123 Jul 31 j 02:54 1123 Jul 31 j 02:54 1123 Jul 31 j 02:51 1123 Aug 15 j 20:40 1123 Aug 17 j 22:34 1123 Nov 27 j 17:34 1124 Feb 02 j 12:26	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'36 29°\$17'35 29°\$19'57 0°\$\Omega\$1 1°\$\Omega\$35'27 9°\$\Omega\$32'06 6°\$\Omega\$06'22 6°\$\Omega\$07'30 2°\$\Omega\$7'10 10°\$\Omega\$44'10 13°\$\Omega\$00'27 13°\$\Omega\$00'26 13°\$\Omega\$00'231 15°\$\Omega\$15'35 23°\$\Omega\$03'01 19°\$\Omega\$38'48	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU  1°01'54 1°01'53 10.24045 AU
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  conjunction minimum elong max. Earth dist. direct	1115 Apr 04 j 18:39 1115 Apr 04 j 18:40 1115 Apr 04 j 18:50 1115 Apr 22 j 09:54 1115 Jul 04 j 15:07 1115 Aug 07 j 13:30 1115 Sep 10 j 16:16 1115 Oct 15 j 01:23 1115 Oct 15 j 00:16 1115 Dec 20 j 14:22 1116 Mar 15 j 04:05 1116 Apr 18 j 05:56 1116 Apr 18 j 05:58 1116 A	20°Y30'01 20°Y30'05 22°Y45'01 0°8 1°800'00 30°RY 27°Y30'15 27°Y30'29 24°Y04'45 0°8 2°801'37 4°817'44 4°817'45 4°818'26 6°835'12 14°855'03 11°824'44 11°825'14 7°858'02 15°8 16°801'58 18°820'24 18°821'47 20°839'53 29°801'58	2°15'49 10.20029 AU -2°46'05 8.15619 AU -2°09'09 2°09'09 10.11401 AU -2°33'11 8.08022 AU -1°54'48 10.04972 AU -2°10'51	minimum elong behind sun begin behind sun end max. Earth dist. morning rise asc. node retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. direct evening set	1121 Jul 01 j 17:24 1121 Jul 01 j 10:01 1121 Jul 02 j 00:46 1121 Jul 02 j 00:46 1121 Jul 19 j 20:24 1121 Jul 19 j 20:24 1121 Jul 19 j 09:01 1121 Oct 31 j 11:37 1122 Jan 06 j 00:11 1122 Jan 05 j 18:19 1122 Jul 16 j 14:05 1122 Jul 16 j 14:05 1122 Jul 16 j 14:04 1122 Jul 16 j 21:24 1122 Jul 16 j 21:24 1122 Jul 22 j 02:06 1122 Aug 03 j 14:05 1122 Aug 03 j 14:05 1122 Nov 14 j 06:26 1123 Jan 19 j 20:57 1123 Jan 19 j 5:23 1123 Jul 31 j 02:51 1123 Jul 31 j 02:22 1123 Aug 15 j 20:40 1123 Aug 17 j 22:34 1123 Nov 27 j 17:34	15°\$18'55 15°\$16'33 15°\$21'17 15°\$21'27 17°\$38'51 17°\$35'14 25°\$44'07 22°\$16'55 22°\$18'07 18°\$47'23 26°\$58'53 29°\$17'36 29°\$17'36 29°\$19'57 0°\$\Omega\$1 1°\$\Omega\$35'27 9°\$\Omega\$32'06 6°\$\Omega\$06'22 6°\$\Omega\$07'30 2°\$\Omega\$7'10 10°\$\Omega\$44'10 13°\$\Omega\$00'26 13°\$\Omega\$00'26 13°\$\Omega\$00'231 15°\$\Omega\$15'35 23°\$\Omega\$03'01	0°01'36  10.07180 AU  0°18'36 8.10570 AU  0°31'21 0°31'21 10.14587 AU  0°58'15 8.19074 AU  1°01'54 1°01'53 10.24045 AU

evening set	1124 Jul 26 j 11:13	24° <b>Ω</b> 11'11		evening set	1130 Oct 10 j 12:49	8° <b>M</b> .11'07	
conjunction	1124 Aug 13 j 06:00	26° <b>Ω</b> 24'34	1°28'25	conjunction	1130 Oct 27 j 06:57	10° <b>M</b> 09'41	2°05'23
minimum elong	1124 Aug 13 j 05:57	26° <b>Ω</b> 24'33	1°28'25	minimum elong	1130 Oct 27 j 06:58	10° <b>™</b> 09'42	2°05'23
max. Earth dist.	1124 Aug 13 j 11:45		10.34975 AU	max. Earth dist.	1130 Oct 27 j 03:24		10.96538 AU
morning rise	1124 Aug 30 j 20:30	28°Ω36'36		morning rise	1130 Nov 12 j 21:39	12°M07'20	
	1124 Sep 11 j 08:16	0° m)			1130 Dec 09 j 01:59	15°M	
retrograde	1124 Dec 09 j 21:59	6° Mp 14'45		retrograde	1131 Feb 20 j 09:23	19°M07'32	
opposition	1125 Feb 14 j 22:24	2° m 52'00	2°03'15	opposition	1131 Apr 30 j 20:34	15°M50'22	2°25'48
min. Earth dist.	1125 Feb 14 j 17:22	2° m 53'00	8.40825 AU	min. Earth dist.	1131 May 01 j 00:07	15°M49'42	8.99575 AU
mm. Earm dist.	1125 Pc6 14 j 17:22 1125 Mar 29 j 15:48	2 11/23 00 30°RΩ	6.40623 AU	iiiii. Eartii tist.	1131 May 12 j 06:13	15°RM	6.99373 AU
direct	1125 Mar 25 j 03:55	29° <b>Ω</b> 24'18		direct	1131 Jul 11 j 01:53	12°M29'17	
direct	1125 May 21 j 14:07	0° Mp		direct	1131 Sep 06 j 10:52	15°M	
		ريات 0 18′02 7° <b>ارا</b>		evening set		19°M40'10	
evening set	1125 Aug 09 j 08:29	/ IIJ 16 UZ		evening set	1131 Oct 22 j 04:36	19 11640 10	
conjunction	1125 Aug 26 j 22:20	9° <b>m</b> 28'21	1°49'44	conjunction	1131 Nov 07 j 20:49	21°M37'39	1°51'50
minimum elong	1125 Aug 26 j 22:17	9° Mp 28′20	1°49'44	minimum elong	1131 Nov 07 j 20:51	21°M37'39	1°51'50
max. Earth dist.	1125 Aug 27 j 03:28	9° <b>™</b> 29'57	10.46731 AU	max. Earth dist.	1131 Nov 07 j 15:48	21°M36'10	11.01841 AU
morning rise	1125 Sep 13 j 07:21	11° <b>m</b> )37'13		morning rise	1131 Nov 24 j 10:26	23°M34'25	
retrograde	1125 Dec 22 j 18:21	19° Mp 06'25		-	1132 Feb 06 j 11:08	0° <b>∡</b> ¹	
opposition	1126 Feb 28 j 02:29	15° <b>m</b> 45'03	2°25'42	retrograde	1132 Mar 03 j 02:30	0° <b>∡</b> ³32'47	
min. Earth dist.	1126 Feb 27 j 22:48	15° m 45'47	8.52781 AU	C	1132 Mar 29 j 03:59	30°RM	
direct	1126 May 08 j 20:17	12° mp 18'21		opposition	1132 May 12 j 00:12	27°M15'39	2°06'23
evening set	1126 Aug 22 j 19:13	20° m 04'16		min. Earth dist.	1132 May 12 j 05:21	27°M14'42	9.03820 AU
				direct	1132 Jul 22 j 06:08	23°M55'23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
conjunction	1126 Sep 09 j 04:00	22° m 11'32	2°05'07	4.1001	1132 Oct 23 j 14:25	0° <b>⊼</b>	
minimum elong	1126 Sep 09 j 03:58	22° mp 11'32		evening set	1132 Nov 01 j 15:52	1° <b>√</b> 01'45	
max. Earth dist.	1126 Sep 09 j 07:22		10.58635 AU	evening set	1132 1107 01 j 13.32	1 7 01 43	
morning rise	1126 Sep 26 j 07:51	24° m) 17'22	10.30033710	conjunction	1132 Nov 18 j 06:51	2° <b>х</b> 58'33	1°33'59
morning risc	1126 Nov 21 j 16:43	24 III 1722 0°Ω		minimum elong	1132 Nov 18 j 06:54	2° 🖈 58'33	1°33'59
ratragrada	3	0 <b>=</b> 1° <b>£</b> 38'20		max. Earth dist.	1132 Nov 18 j 00:34 1132 Nov 18 j 00:19	2° 🖈 56'37	
retrograde	1127 Jan 04 j 07:02				3	4° <b>×</b> 754'54	11.03047 AU
annagition	1127 Feb 18 j 01:41 1127 Mar 13 j 00:41	30°RM)	2940/20	morning rise	1132 Dec 04 j 20:14		
opposition	-	28° Mp 18'15		retrograde	1133 Mar 14 j 20:39	11° 🖈 52'53	1042112
min. Earth dist.	1127 Mar 12 j 23:07	28° Mp 18'33	8.64543 AU	opposition	1133 May 24 j 02:26	8° 🗷 35'31	1°42'13
direct	1127 May 22 j 06:02	24° m 52'38		min. Earth dist.	1133 May 24 j 08:05	8° 🖈 34'29	9.05902 AU
	1127 Aug 13 j 20:04	0° <b>⊽</b>		direct	1133 Aug 03 j 07:05	5° <b>₹</b> 15'53	
evening set	1127 Sep 04 j 19:26	2° <b>£</b> 30'37		evening set	1133 Nov 13 j 00:04	12° <b>≯</b> 18'56	
conjunction	1127 Sep 21 j 23:25	4° <b>£</b> 35'06	2°14'13	conjunction	1133 Nov 29 j 14:38	14° <b>∡</b> 15'31	1°12'33
minimum elong	1127 Sep 21 j 23:24	4° <b>£</b> 35'06	2°14'13	minimum elong	1133 Nov 29 j 14:40	14° <b>∡</b> 15'31	1°12'33
max. Earth dist.	1127 Sep 22 j 00:03	4° <b>≙</b> 35'18	10.70021 AU	max. Earth dist.	1133 Nov 29 j 08:03	14° <b>∡</b> 13'34	11.06049 AU
morning rise	1127 Oct 08 j 22:46	6° <b>£</b> 38'12		morning rise	1133 Dec 16 j 04:15	16° <b>∡</b> 11'52	
retrograde	1128 Jan 16 j 13:40	13° <b>≏</b> 52'03		retrograde	1134 Mar 26 j 15:13	23° <b>尽</b> 11'01	
opposition	1128 Mar 24 j 17:47	10° <b>£</b> 33'05	2°47'32	opposition	1134 Jun 05 j 04:20	19° <b>∡</b> 53′09	1°14'10
min. Earth dist.	1128 Mar 24 j 18:14	10° <b>ჲ</b> 33'00	8.75490 AU	min. Earth dist.	1134 Jun 05 j 09:46	19° <b>∡</b> 52'09	9.05746 AU
direct	1128 Jun 03 j 08:21	7° <b>£</b> 08'41		direct	1134 Aug 15 j 04:42	16° <b>₹</b> 33'59	
evening set	1128 Sep 16 j 09:35	14° <b>≏</b> 38'57		evening set	1134 Nov 24 i 07:14	23° <b>∡</b> ³35′07	
<i>3</i>	T J			<i>3</i>	<b>3</b>		
conjunction	1128 Oct 03 j 09:24	16° <b>≏</b> 41'01	2°17'05	conjunction	1134 Dec 10 j 21:48	25° <b>∡</b> 31'51	0°48'18
minimum elong	1128 Oct 03 j 09:24	16° <b>≏</b> 41'01	2°17'06	minimum elong	1134 Dec 10 j 21:50	25° <b>⋌</b> 31'51	0°48'18
max. Earth dist.	1128 Oct 03 j 07:36	16° <b>≏</b> 40'28	10.80361 AU	max. Earth dist.	1134 Dec 10 j 15:33	25° <b>渘</b> ³30′00	11.04803 AU
morning rise	1128 Oct 20 j 05:05	18° <b>≙</b> 41'50		morning rise	1134 Dec 27 j 12:04	27° <b>∡</b> ¹28'35	
retrograde	1129 Jan 27 j 14:29	25° <b>≏</b> 49'52			1135 Jan 19 j 09:51	5°0	
opposition	1129 Apr 06 j 06:18	22° <b>£</b> 31'45	2°47'04	retrograde	1135 Apr 07 j 14:03	4° <b>る</b> 30'26	
min. Earth dist.	1129 Apr 06 j 07:40	22° <b>₽</b> 31'30	8.85179 AU	opposition	1135 Jun 17 j 07:03	1° <b>る</b> 11'53	0°43'11
direct	1129 Jun 16 j 04:52	19° <b>ഫ</b> 08'33		min. Earth dist.	1135 Jun 17 j 12:32	1° <b>る</b> 10'52	9.03364 AU
evening set	1129 Sep 28 j 14:57	26° <b>£</b> 31'37			1135 Jul 03 j 21:45	30°₽ <b>⋌</b> 7	
Č				direct	1135 Aug 27 j 01:04	27° <b>₹</b> 53'01	
conjunction	1129 Oct 15 j 11:32	28° <b>≏</b> 31'42	2°14'00		1135 Oct 17 j 20:42	ිප 0°ප	
minimum elong	1129 Oct 15 j 11:33	28° <b>£</b> 31'42		evening set	1135 Dec 05 j 15:06	4° <b>る</b> 53'40	
max. Earth dist.	1129 Oct 15 j 08:44		10.89298 AU	<b>5</b> 4	j		
	1129 Oct 27 j 19:54	0°M	=, 0 110	conjunction	1135 Dec 22 j 05:55	6° <b>る</b> 50'56	0°22'05
morning rise	1129 Nov 01 j 04:18	0°M30'42		minimum elong	1135 Dec 22 j 05:55	6°පි50'56	0°22'05
retrograde	1130 Feb 08 j 13:48	7°M34'10		max. Earth dist.	1135 Dec 22 j 03:55 1135 Dec 21 j 22:54		11.01367 AU
opposition	1130 Apr 18 j 14:51	4°M16'40	2°39'37	morning rise	1136 Jan 07 j 21:27	8° <b>る</b> 48'28	-1.01507110
min. Earth dist.	1130 Apr 18 j 17:03	4°M16'15	8.93296 AU	retrograde	1136 Apr 18 j 15:12	15° <b>ප</b> 54'32	
direct	1130 Jun 28 j 19:17	0°M54'35	5.75270 AU	opposition	1136 Jun 28 j 11:41	13 <b>3</b> 3432	0°10'17
411001	1150 Juli 20 J 17.17	O HUST SS		оррозион	1150 Juli 20 J 11.71	.2 000	0 101/

min. Earth dist.	1126 Jun 20: 17:42	120=22250	8.98852 AU	marning rise	1142 Mar 20 j 05:02	20° <b>¥</b> 51'53	
	1136 Jun 28 j 17:43	12 <b>3</b> 3338 9° <b>る</b> 16'18	6.96632 AU	morning rise	3	20 <del>X</del> 3133 28° <del>X</del> 47'31	
direct	1136 Sep 06 j 19:38	9°る1618 10°る54'14		retrograde	1142 Jul 04 j 13:24 1142 Sep 12 j 05:53	25° <del>X</del> (4/31)	2027157
desc. node	1136 Oct 21 j 20:34			opposition			
evening set	1136 Dec 16 j 01:10	16°る18'03		min. Earth dist.	1142 Sep 12 j 07:05		8.41000 AU
. ,.	1127 1 01:16.41	100716111	0005110	direct	1142 Nov 18 j 15:27	21° <b>)</b> 58'22	
conjunction	1137 Jan 01 j 16:41	18°る16'11		evening set	1143 Feb 27 j 04:50	29° <b>)</b> €35'07	
minimum elong	1137 Jan 01 j 16:41	18°る16'11	0°05'20		1143 Mar 02 j 12:51	$0^{\circ}$ Y	
behind sun begin	1137 Jan 01 j 09:55	18°る14'12			111237 16:00 20	100014140	2012107
behind sun end	1137 Jan 01 j 23:26	18° <b>ろ</b> 18'10		conjunction	1143 Mar 16 j 09:28	1° <b>Y</b> 44'48	
max. Earth dist.	1137 Jan 01 j 09:16		10.95859 AU	minimum elong	1143 Mar 16 j 09:27	1° <b>Y</b> 44'48	
morning rise	1137 Jan 18 j 09:55	20° <b>る</b> 14'50		max. Earth dist.	1143 Mar 16 j 09:21		10.35374 AU
retrograde	1137 Apr 30 j 20:36	27° <b>る</b> 26'39		morning rise	1143 Apr 02 j 18:50	3° <b>Y</b> 56′00	
opposition	1137 Jul 10 j 19:02	24° <b>る</b> 06'09		retrograde	1143 Jul 18 j 14:36	12° <b>Y</b> 00′37	
min. Earth dist.	1137 Jul 11 j 01:04	24° <b>る</b> 05'01	8.92356 AU	opposition	1143 Sep 25 j 20:19	8° <b>Y</b> 32'33	
direct	1137 Sep 18 j 17:58	20° <b>る</b> 47'13		min. Earth dist.	1143 Sep 25 j 19:39	8° <b>Ƴ</b> 32'41	8.30199 AU
evening set	1137 Dec 27 j 15:19	27° <b>る</b> 51'36		direct	1143 Dec 01 j 20:17	5° <b>Ƴ</b> 09'19	
				evening set	1144 Mar 11 j 21:58	12° <b>Y</b> 54'30	
conjunction	1138 Jan 13 j 08:00	29° <b>る</b> 50'58	-0°32'43				
minimum elong	1138 Jan 13 j 07:59	29° <b>る</b> 50'57	0°32'43	conjunction	1144 Mar 29 j 06:44	15° <b>Y</b> 06′50	-2°16'09
max. Earth dist.	1138 Jan 13 j 01:28	29° <b>る</b> 49'01	10.88451 AU	minimum elong	1144 Mar 29 j 06:44	15° <b>Y</b> 06'50	2°16'09
	1138 Jan 14 j 14:06	0° <b>≈</b>		max. Earth dist.	1144 Mar 29 j 08:45	15° <b>Ƴ</b> 07'28	10.25031 AU
morning rise	1138 Jan 30 j 03:01	1° <b>≈</b> 51'03		morning rise	1144 Apr 15 j 20:01	17° <b>Ƴ</b> 20'38	
retrograde	1138 May 13 j 09:39	9° <b>≈</b> 09'58		retrograde	1144 Jul 31 j 23:19	25° <b>Ƴ</b> 32'48	
opposition	1138 Jul 23 j 05:56	5°≈48'15	-0°56'47	opposition	1144 Oct 08 j 15:52	22° <b>Ƴ</b> 03'52	-2°48'18
min. Earth dist.	1138 Jul 23 j 10:55	5° <b>≈</b> 47'19	8.84099 AU	min. Earth dist.	1144 Oct 08 j 13:33	22° <b>Y</b> '04'20	8.20504 AU
direct	1138 Sep 30 j 17:54	2° <b>≈</b> 29'02		direct	1144 Dec 14 j 06:48	18° <b>Ƴ</b> 39'29	
evening set	1139 Jan 08 j 11:06	9° <b>≈</b> 37'31		evening set	1145 Mar 26 j 01:00	26° <b>Ƴ</b> 32'47	
evening sec	113, 0411 00 111.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		evening sec	11 10 111ai 20 j 01.00	20 102 17	
conjunction	1139 Jan 25 j 05:17	11° <b>≈</b> 38′24	-0°59'13	conjunction	1145 Apr 12 j 14:15	28° <b>Ƴ</b> 47'43	-2°12'40
minimum elong	1139 Jan 25 j 05:14	11° <b>≈</b> 38'24		minimum elong	1145 Apr 12 j 14:17	28° <b>Ƴ</b> 47'43	2°12'40
max. Earth dist.	1139 Jan 25 j 00:01		10.79413 AU	max. Earth dist.	1145 Apr 12 j 17:42		10.16078 AU
morning rise	1139 Feb 11 j 02:22	13° <b>≈</b> 40'15			1145 Apr 21 j 22:45	0°8	
morning noe	1139 Feb 22 j 12:43	15° <b>≈</b>		morning rise	1145 Apr 30 j 07:43	1° <b>8</b> 04'01	
retrograde	1139 May 26 j 05:26	21°≈07'27		retrograde	1145 Aug 15 j 12:13	9° <b>8</b> 21'45	
opposition	1139 Aug 04 j 21:39	17°≈44'25	-1°28'25	opposition	1145 Oct 22 j 15:58	5° <b>8</b> 52'12	-2°39'24
min. Earth dist.	1139 Aug 05 j 01:20	17°≈43'43	8.74398 AU	min. Earth dist.	1145 Oct 22 j 13:34		8.12424 AU
iiiii. Eartii dist.	1139 Sep 16 j 08:33	17 <b>≈</b> 43 43	6.74376 AU	direct	1145 Dec 28 j 01:22	2° <b>6</b> 26'38	6.12424 AU
direct	1139 Oct 12 j 20:21	13 ‰ 14°≈24'44		evening set	1146 Apr 09 j 12:42	10° <b>8</b> 27'14	
direct	1139 Oct 12 j 20:21 1139 Nov 07 j 22:35	14 ≈24 44 15°≈		evening set	1140 Apr 09 j 12.42	10 02/14	
avanina aat	•			agniumation	1146 Apr. 27: 06:21	120 🗸 44122	2901127
evening set	1140 Jan 20 j 13:58	21° <b>≈</b> 38'42		conjunction	1146 Apr 27 j 06:31	12° <b>8</b> 44'32	
	1140 F 1 06:00 55	220 41125	1022120	minimum elong	1146 Apr 27 j 06:34	12° <b>8</b> 44'33	
conjunction	1140 Feb 06 j 09:55	23°≈41'25		max. Earth dist.	1146 Apr 27 j 10:39		10.08980 AU
minimum elong	1140 Feb 06 j 09:52	23°≈41'24			1146 May 14 j 18:33	15° <b>8</b>	
max. Earth dist.	1140 Feb 06 j 05:12		10.69113 AU	morning rise	1146 May 15 j 04:05	15° <b>8</b> 03'02	
morning rise	1140 Feb 23 j 09:32	25°≈45'17		retrograde	1146 Aug 30 j 03:09	23° <b>8</b> 23'58	2020152
	1140 Apr 02 j 07:32	0° <b>)</b> (21141		opposition	1146 Nov 05 j 19:25	19° <b>8</b> 54'09	
retrograde	1140 Jun 07 j 08:58	3° <b>)</b> €21'41		min. Earth dist.	1146 Nov 05 j 15:43	19° <b>8</b> 54'54	8.06367 AU
opposition	1140 Aug 16 j 18:39	29° <b>≈</b> 57'18	-1°56'51	direct	1147 Jan 11 j 03:02	16° <b>8</b> 27'27	
	1140 Aug 16 j 04:34	30°R≈		evening set	1147 Apr 24 j 07:51	24° <b>8</b> 34'11	
min. Earth dist.	1140 Aug 16 j 21:37	29° <b>≈</b> 56'44	8.63654 AU				
direct	1140 Oct 24 j 04:17	26°≈36'54		conjunction	1147 May 12 j 06:04	26° <b>8</b> 53'29	
	1140 Dec 27 j 09:41	0° <b>∀</b>		minimum elong	1147 May 12 j 06:07	26° <b>8</b> 53'30	
evening set	1141 Feb 01 j 01:23	3° <b>¥</b> 57'37		max. Earth dist.	1147 May 12 j 10:38		10.04102 AU
				morning rise	1147 May 30 j 07:13	29° <b>8</b> 13'42	
conjunction	1141 Feb 17 j 23:34	6° <b>ℋ</b> 02'26			1147 Jun 05 j 09:31	$\Pi$ $\circ$ 0	
minimum elong	1141 Feb 17 j 23:32	6° <b>)</b> €02'25	1°44'44	retrograde	1147 Sep 13 j 18:21	7° <b>Ⅱ</b> 35'15	
max. Earth dist.	1141 Feb 17 j 19:22		10.57990 AU	opposition	1147 Nov 20 j 00:45	4° <b>Ⅱ</b> 05'33	
morning rise	1141 Mar 07 j 02:09	8° <b>∺</b> 08'36		min. Earth dist.	1147 Nov 19 j 20:52		8.02693 AU
retrograde	1141 Jun 20 j 19:37	15° <b>)</b> 54′36		direct	1148 Jan 25 j 10:09	0° <b>Ⅱ</b> 37'53	
opposition	1141 Aug 29 j 21:15	12° <b>¥</b> 28′55	-2°20'33	evening set	1148 May 08 j 08:28	8° <b>Ⅱ</b> 49'11	
min. Earth dist.	1141 Aug 29 j 23:41	12° <b>)</b> €28′26	8.52342 AU				
direct	1141 Nov 05 j 17:54	9° <b>)</b> €07'40		conjunction	1148 May 26 j 10:20	11° <b>Ⅱ</b> 09'53	-1°17'49
evening set	1142 Feb 13 j 22:10	16° <b>¥</b> 36′07		minimum elong	1148 May 26 j 10:24	11° <b>Ⅱ</b> 09'54	1°17'50
				max. Earth dist.	1148 May 26 j 15:36	11° <b>Ⅱ</b> 11'36	10.01795 AU
conjunction	1142 Mar 02 j 23:14	18° <b>)</b> 43′16	-2°01'19	morning rise	1148 Jun 13 j 14:00	13° <b>Ⅱ</b> 31′06	
minimum elong							
minimum crong	1142 Mar 02 j 23:12	18° <b>¥</b> 43'15	2°01'18	retrograde	1148 Sep 27 j 08:06	21° <b>Ⅱ</b> 50'37	
max. Earth dist.	1142 Mar 02 j 23:12 1142 Mar 02 j 20:41		2°01'18 10.46556 AU	retrograde opposition	1148 Sep 27 j 08:06 1148 Dec 03 j 06:43	21° <b>Ⅲ</b> 50'37 18° <b>Ⅲ</b> 21'24	-1°19'06

min. Earth dist.	1148 Dec 03 j 02:16	18° <b>Ⅲ</b> 22'19	8.01740 AU	evening set	1154 Aug 03 j 23:14	2° m 06'35	
direct	1149 Feb 07 j 20:45	14° <b>Ⅱ</b> 52'55					
evening set	1149 May 23 j 11:57	23° <b>Ⅱ</b> 06'49		conjunction	1154 Aug 21 j 15:10	4° <b>m</b> 18'14	1°41'34
				minimum elong	1154 Aug 21 j 15:07	4° <b>m</b> ) 18'13	1°41'34
conjunction	1149 Jun 10 j 16:08	25° <b>II</b> 28'03	-0°47'58	max. Earth dist.	1154 Aug 21 j 19:15	4° <b>m</b> 19'30	10.41244 AU
minimum elong	1149 Jun 10 j 16:11	25° <b>Ⅲ</b> 28′04	0°47'59	morning rise	1154 Sep 08 j 02:38	6° Mp 28′27	
max. Earth dist.	1149 Jun 10 j 22:20	25° <b>Ⅲ</b> 30′04	10.02320 AU	retrograde	1154 Dec 17 j 18:10	14° <b>m</b> 01'11	
morning rise	1149 Jun 28 j 20:45	27° <b>Ⅱ</b> 49'22		opposition	1155 Feb 22 j 23:48	10° <b>m</b> 38'53	2°17'17
	1149 Jul 16 j 10:24	$0$ $\circ$ $\mathfrak{S}$		min. Earth dist.	1155 Feb 22 j 20:49	10° <b>m</b> 39'28	8.47120 AU
retrograde	1149 Oct 11 j 18:52	6°504'21		direct	1155 May 03 j 13:30	7° <b>m</b> ) 11'15	
opposition	1149 Dec 17 j 11:36	2° <b>©</b> 35'52	-0°39'48	evening set	1155 Aug 17 j 14:05	15° m 00'25	
min. Earth dist.	1149 Dec 17 j 06:17	2° <b>©</b> 36'58	8.03673 AU	•		•	
	1150 Jan 22 j 01:57	30°RⅡ		conjunction	1155 Sep 04 j 00:56	17° <b>m</b> 08'59	1°59'28
direct	1150 Feb 22 j 09:44	29° <b>Ⅱ</b> 06'50		minimum elong	1155 Sep 04 j 00:53	17° <b>m</b> ) 08'58	1°59'28
	1150 Mar 25 j 14:17	0°9		max. Earth dist.	1155 Sep 04 j 03:30	17° <b>m</b> ) 09'46	10.52922 AU
evening set	1150 Jun 07 j 15:28	7° <b>5</b> 21'07		morning rise	1155 Sep 21 j 07:09	19° <b>m</b> ) 16'07	
5 · • • • • • • • • • • • • • • • • • •				retrograde	1155 Dec 30 j 08:31	26° m/40'21	
conjunction	1150 Jun 25 j 20:20	9° <b>5</b> 641'56	-0°15'20	opposition	1156 Mar 06 j 23:58	23° m/ 19'16	2°35'18
minimum elong	1150 Jun 25 j 20:21	9° <b>©</b> 41'57		min. Earth dist.	1156 Mar 06 j 21:30	23° m) 19'45	8.58871 AU
behind sun begin	1150 Jun 25 j 18:39	9°9541'24	0 13 21	direct	1156 May 16 j 02:49	19° <b>m</b> 52'40	0.30071710
behind sun end	1150 Jun 25 j 22:02	9°542'29		evening set	1156 Aug 29 j 18:10	27° m) 33'54	
max. Earth dist.	1150 Jun 26 j 03:27		10.05713 AU	evening set	1130 Aug 29 j 16.10	27 IIJ 33 34	
	,		10.03/13 AU	:	1156 9 16:00-12	200 m 20122	2011112
morning rise	1150 Jul 14 j 00:09	12° <b>©</b> 02'25 20° <b>©</b> 10'45		conjunction	1156 Sep 16 j 00:13	29° m 39'33 29° m 39'33	2°11'12 2°11'12
retrograde	1150 Oct 26 j 00:09			minimum elong	1156 Sep 16 j 00:12	•	
asc. node	1150 Dec 17 j 04:27	17°952'58	0001105	max. Earth dist.	1156 Sep 16 j 02:02	-	10.64535 AU
opposition	1150 Dec 31 j 13:48	16°9543'15	0°01'35		1156 Sep 18 j 19:06	0∘ <b>亚</b>	
min. Earth dist.	1150 Dec 31 j 07:48	16°5544'29	8.08410 AU	morning rise	1156 Oct 03 j 01:31	1° <b>≏</b> 43'48	
direct	1151 Mar 08 j 22:32	13° <b>©</b> 13'56		retrograde	1157 Jan 10 j 18:39	9° <b>ჲ</b> 00'24	
evening set	1151 Jun 22 j 16:04	21° <b>©</b> 26'28		opposition	1157 Mar 19 j 18:46	5° <b>≏</b> 40'28	2°45'35
		_		min. Earth dist.	1157 Mar 19 j 17:03	5° <b>≏</b> 40'47	8.70276 AU
conjunction	1151 Jul 10 j 19:50	23° <b>©</b> 45'56	0°17'57	direct	1157 May 29 j 06:55	2° <b>≏</b> 15′03	
minimum elong	1151 Jul 10 j 19:49	23° <b>©</b> 45'56	0°17'57	evening set	1157 Sep 11 j 11:50	9° <b>≏</b> 48'16	
max. Earth dist.	1151 Jul 11 j 03:23	23° <b>©</b> 48'21	10.11761 AU				
morning rise	1151 Jul 28 j 21:11	26°504'40		conjunction	1157 Sep 28 j 13:35	11° <b>≏</b> 51'20	
	1151 Aug 31 j 06:38	$0$ $\circ$ $\Omega$		minimum elong	1157 Sep 28 j 13:34	11° <b>≏</b> 51'20	
retrograde	1151 Nov 08 j 22:39	4° <b>Ω</b> 04'51		max. Earth dist.	1157 Sep 28 j 14:33	11° <b>≏</b> 51'38	10.75550 AU
opposition	1152 Jan 14 j 12:14	0° <b>£</b> 38'33	0°42'14	morning rise	1157 Oct 15 j 10:41	13° <b>≏</b> 53'04	
min. Earth dist.	1152 Jan 14 j 06:23	0° <b>Ω</b> 39'45	8.15634 AU	retrograde	1158 Jan 22 j 21:31	21° <b>≙</b> 03'07	
	1152 Jan 22 j 09:59	30° <b>₹ॐ</b>		opposition	1158 Apr 01 j 08:33	17° <b>≏</b> 44'10	2°48'14
direct	1152 Mar 22 j 09:23	27° <b>5</b> 09'14		min. Earth dist.	1158 Apr 01 j 08:28	17° <b>≏</b> 44'11	8.80827 AU
	1152 May 19 j 17:48	$0 {\circ} \Omega$		direct	1158 Jun 11 j 04:25	14° <b>≙</b> 20′01	
evening set	1152 Jul 06 j 11:03	5° <b>Ω</b> 18′01		evening set	1158 Sep 23 j 20:20	21° <b>≙</b> 45'38	
conjunction	1152 Jul 24 j 11:57	7° <b>Ω</b> 35'21	0°49'39	conjunction	1158 Oct 10 j 18:19	23° <b>≏</b> 46′28	2°16'04
minimum elong	1152 Jul 24 j 11:55	7° <b>Ω</b> 35'21	0°49'38	minimum elong	1158 Oct 10 j 18:19	23° <b>≏</b> 46'28	
max. Earth dist.	1152 Jul 24 j 19:02		10.20056 AU	max. Earth dist.	1158 Oct 10 j 17:26		10.85492 AU
morning rise	1152 Aug 11 j 09:23	9° <b>Ω</b> 51'37	10.20030 AC	morning rise	1158 Oct 27 j 12:11	25° <b>Ω</b> 46'08	10.034)2 AU
morning risc	1152 Aug 11 j 09:23 1152 Sep 26 j 16:08	15° <b>Ω</b>		morning risc	1158 Dec 06 j 11:21	0°M₁	
retrograde	1152 Nov 21 j 13:31	17° <b>Ω</b> 42'47		retrograde	1159 Feb 03 j 20:01	2°M50'50	
retrograde	v	17 <b>8.42</b> 47 15°RΩ		retrograde	1159 Apr 07 j 16:48	2 11 <b>6</b> 30 30 30° <b>₹</b> Ω	
annagition	1153 Jan 18 j 11:56		1910/20	omnosition			2942140
opposition	1153 Jan 27 j 05:46	14° <b>Ω</b> 17'48	1°19'39	opposition	1159 Apr 13 j 18:00	29° <b>Ω</b> 32'44	2°43'40
min. Earth dist.	1153 Jan 27 j 00:44	14°Ω18'50	8.24881 AU	min. Earth dist.	1159 Apr 13 j 19:39	29° <b>♀</b> 32'25	8.90085 AU
direct	1153 Apr 05 j 15:40	10° <b>Ω</b> 48'47		direct	1159 Jun 23 j 20:12	26° <b>♀</b> 09'50	
	1153 Jun 17 j 08:43	15° <b>Ω</b>			1159 Sep 03 j 18:28	0°M,	
evening set	1153 Jul 20 j 22:00	18° <b>Ω</b> 52'09		evening set	1159 Oct 05 j 20:40	3°M28'29	
conjunction	1153 Aug 07 j 18:46	21° <b>Ω</b> 06'48	1°17'59	conjunction	1159 Oct 22 j 15:37	5° <b>™</b> 27'32	2°09'45
minimum elong	1153 Aug 07 j 18:43	21° <b>Ω</b> 06'47	1°17'59	minimum elong	1159 Oct 22 j 15:39	5°M27'32	2°09'44
max. Earth dist.	1153 Aug 08 j 00:39		10.30082 AU	max. Earth dist.	1159 Oct 22 j 12:43	5°M26'40	10.93967 AU
morning rise	1153 Aug 25 j 11:25	23° <b>Ω</b> 20′07		morning rise	1159 Nov 08 j 07:13	7°M25'36	
-	1153 Oct 31 j 23:57	0° <b>m</b>		retrograde	1160 Feb 15 j 15:03	14°M26'20	
retrograde	1153 Dec 04 j 20:29	1° <b>m</b> 01'59		opposition	1160 Apr 25 j 00:08	11° <b>M</b> .08'50	2°32'28
-	1154 Jan 08 j 02:15	30°R <b>Ω</b>		min. Earth dist.	1160 Apr 25 j 02:37	11° <b>M</b> .08'22	8.97690 AU
opposition	1154 Feb 09 j 17:44	27° <b>Ω</b> 38'21	1°51'48	direct	1160 Jul 05 j 05:51	7° <b>M</b> 47'10	
min. Earth dist.	1154 Feb 09 j 13:53	27° <b>Ω</b> 39'08	8.35585 AU	evening set	1160 Oct 16 j 14:00	14° <b>M</b> 59'39	
direct	1154 Apr 19 j 17:19	24° <b>Ω</b> 09'54		-	1160 Oct 16 j 15:14	15° <b>M</b> ₊	
	1154 Jul 17 j 04:33	0° <b>m</b> y			,		
	, and a second	-					

	11(0 N 02 : 0(.52	1.69 <b>m</b> 57122	1050115	Eth dit	1167 I 00:06.07	240=54124	10.04670 AII
conjunction	1160 Nov 02 j 06:53	16°M57'22		max. Earth dist.	1167 Jan 08 j 06:07		10.94670 AU
minimum elong	1160 Nov 02 j 06:55	16°M57'23	1°58'14	morning rise	1167 Jan 25 j 07:08	26° <b>る</b> 55'46	
max. Earth dist.	1160 Nov 02 j 03:14		11.00652 AU	_	1167 Feb 22 j 05:39	0° <b>≈</b>	
morning rise	1160 Nov 18 j 20:58	18° <b>M</b> 54'19		retrograde	1167 May 08 j 05:46	4°≈10′18	
retrograde	1161 Feb 26 j 09:13	25°M52'32		opposition	1167 Jul 18 j 01:53	0° <b>≈</b> 49'53	-0°42'05
opposition	1161 May 07 j 03:40	22°M35'22	2°15'22	min. Earth dist.	1167 Jul 18 j 07:50	0° <b>≈</b> 48'46	8.90566 AU
min. Earth dist.	1161 May 07 j 06:26	22°M34'52	9.03355 AU		1167 Jul 29 j 08:08	30°Ŗ₹	
direct	1161 Jul 17 j 11:36	19° <b>M</b> .14'49		direct	1167 Sep 25 j 17:45	27° <b>る</b> 31'29	
evening set	1161 Oct 28 j 02:19	26°M22'12			1167 Nov 20 j 04:54	0° <b>≈</b>	
	·			evening set	1168 Jan 03 j 13:53	4° <b>≈</b> 37'04	
conjunction	1161 Nov 13 j 17:53	28°M19'04	1°42'10	Č	,		
minimum elong	1161 Nov 13 j 17:55	28°M19'05	1°42'10	conjunction	1168 Jan 20 j 07:03	6° <b>≈</b> 36'56	-0°47'35
max. Earth dist.	1161 Nov 13 j 14:04		11.05294 AU	minimum elong	1168 Jan 20 j 07:01	6°≈36'55	
max. Latin dist.		20 11 <b>0</b> 17 30	11.032)4 AO	C			
	1161 Nov 28 j 02:05			max. Earth dist.	1168 Jan 19 j 23:14		10.86053 AU
morning rise	1161 Nov 30 j 07:09	0° <b>₹</b> 15′20		morning rise	1168 Feb 06 j 03:07	8° <b>≈</b> 37'41	
retrograde	1162 Mar 10 j 03:50	7° <b>∡¹</b> 12'27			1168 Apr 14 j 14:03	15° <b>≈</b>	
opposition	1162 May 19 j 05:30	3° <b>≯</b> 55'25	1°53'10	retrograde	1168 May 19 j 20:15	16° <b>≈</b> 00'07	
min. Earth dist.	1162 May 19 j 09:16	3° <b>∡</b> ¹54'43	9.06881 AU		1168 Jun 24 j 17:53	15° <b>R</b> ≈	
direct	1162 Jul 29 j 11:30	0° <b>∡</b> ³35'49		opposition	1168 Jul 29 j 14:55	12° <b>≈</b> 38′21	-1°14'33
evening set	1162 Nov 08 j 11:16	7° <b>∡</b> ³39'18		min. Earth dist.	1168 Jul 29 j 21:05	12° <b>≈</b> 37'11	8.81101 AU
				direct	1168 Oct 06 j 18:59	9° <b>≈</b> 19'26	
conjunction	1162 Nov 25 j 01:55	9° <b>∡</b> ³35'43	1°22'13		1169 Jan 01 j 15:05	15° <b>≈</b>	
minimum elong	1162 Nov 25 j 01:58	9° <b>×</b> 35'44	1°22'14	evening set	1169 Jan 14 j 12:55	16° <b>≈</b> 30'03	
max. Earth dist.	1162 Nov 24 j 20:46		11.07734 AU	evening set	110) Jan 14 j 12.55	10 ~30 03	
	3		11.07734 AU		11/0 1 21:07.51	10021140	1012102
morning rise	1162 Dec 11 j 15:12	11° <b>х</b> 31'48		conjunction	1169 Jan 31 j 07:51	18° <b>≈</b> 31'40	
retrograde	1163 Mar 21 j 20:43	18° <b>∡</b> 29'19		minimum elong	1169 Jan 31 j 07:49	18° <b>≈</b> 31'39	
opposition	1163 May 31 j 06:58	15° <b>≯</b> 12'08	1°26'44	max. Earth dist.	1169 Jan 31 j 01:01		10.75830 AU
min. Earth dist.	1163 May 31 j 12:02	15° <b>√</b> 11'12	9.08154 AU	morning rise	1169 Feb 17 j 06:16	20° <b>≈</b> 34'22	
direct	1163 Aug 10 j 08:13	11° <b>₹</b> ¹53'16		retrograde	1169 Jun 01 j 19:18	28° <b>≈</b> 05'47	
evening set	1163 Nov 19 j 18:15	18° <b>∡</b> 754'12		opposition	1169 Aug 11 j 08:57	24° <b>≈</b> 42'30	-1°44'32
				min. Earth dist.	1169 Aug 11 j 14:06	24° <b>≈</b> 41'32	8.70268 AU
conjunction	1163 Dec 06 j 08:31	20° <b>х</b> 50'34	0°59'09	direct	1169 Oct 19 j 01:53	21° <b>≈</b> 22'49	
minimum elong	1163 Dec 06 j 08:33	20° <b>х</b> 50′34	0°59'10	evening set	1170 Jan 26 j 19:50	28° <b>≈</b> 39'46	
max. Earth dist.	1163 Dec 06 j 02:04	20° <b>х</b> 48'40		evening sec	1170 Feb 06 j 19:37	0° <b>∀</b>	
morning rise	1163 Dec 22 j 22:26	22° <b>х</b> 46'49	11.07672 AC		11/0100 00 17.57	0 X	
•	,			:	1170 E-L 12 : 16.56	001/42/26	1025144
retrograde	1164 Apr 01 j 16:47	29° 🖈 46'21	005650	conjunction	1170 Feb 12 j 16:56	0° <b>)</b> (43′26	
opposition	1164 Jun 11 j 08:48	26° <b>≯</b> 28'43	0°56'58	minimum elong	1170 Feb 12 j 16:53	0° <b>)</b> 43′25	
min. Earth dist.	1164 Jun 11 j 14:32	26° <b>₹</b> 27'40	9.07128 AU	max. Earth dist.	1170 Feb 12 j 11:40		10.64463 AU
direct	1164 Aug 21 j 05:44	23° <b>҂</b> 10′20		morning rise	1170 Mar 01 j 17:53	2° <b>)</b> 48′20	
	1164 Nov 28 j 13:55	0°ප		retrograde	1170 Jun 15 j 03:00	10° <b>)</b> €29'23	
evening set	1164 Nov 30 j 01:08	0° <b>ප</b> 10'08		opposition	1170 Aug 24 j 08:29	7° <b>)</b> €04'34	-2°10'31
				min. Earth dist.	1170 Aug 24 j 12:04	7° <b>)</b> €03'52	8.58564 AU
conjunction	1164 Dec 16 j 15:38	2° <b>පි</b> 06'50	0°33'45	direct	1170 Oct 31 j 11:50	3° <b>)</b> 43′56	
minimum elong	1164 Dec 16 j 15:40	2° <b>る</b> 06'50	0°33'45	evening set	1171 Feb 08 j 11:47	11° <b>¥</b> 08'18	
max. Earth dist.	1164 Dec 16 j 09:12	2°る04'56	11.05744 AU	Č	J		
morning rise	1165 Jan 02 j 06:32	4° <b>ට</b> 03'41		conjunction	1171 Feb 25 j 11:29	13° <b>)(</b> 14'14	-1°54'29
retrograde	1165 Apr 13 j 15:54	11° <b>る</b> 06'41		minimum elong	1171 Feb 25 j 11:26	13° <b>)</b> (14'13	
opposition	1165 Jun 23 j 11:43	7°る48'20	0°24'52		11/11 CO 23 j 11.20		
* *	1105 Juli 25   11. <del>4</del> 5				1171 Eab 25 ; 07:20	120112150	
min. Earth dist.	·			max. Earth dist.	1171 Feb 25 j 07:29	13° <b>¥</b> 12'59	10.52494 AU
1'	1165 Jun 23 j 17:06	7°₹47'21	9.03807 AU	morning rise	1171 Mar 14 j 15:29	15° <b>∺</b> 21'35	10.52494 AU
direct	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56	7°る47'21 4°る30'13		morning rise retrograde	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28	15° <b>米</b> 21'35 23° <b>米</b> 12'30	
direct evening set	1165 Jun 23 j 17:06	7°₹47'21		morning rise retrograde opposition	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02	15°¥21'35 23°¥12'30 19°¥46'08	-2°30'57
	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32	7°る47'21 4°る30'13 11°る30'21	9.03807 AU	morning rise retrograde	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43	
	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43	7°る47'21 4°る30'13		morning rise retrograde opposition	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02	15°¥21'35 23°¥12'30 19°¥46'08	-2°30'57
evening set	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32	7°る47'21 4°る30'13 11°る30'21	9.03807 AU	morning rise retrograde opposition min. Earth dist.	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43	-2°30'57
evening set	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43	7°る47'21 4°る30'13 11°る30'21 13°る27'46	9.03807 AU 0°06'54	morning rise retrograde opposition min. Earth dist. direct	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43 16°¥24'22	-2°30'57
evening set  conjunction  minimum elong	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정27'46	9.03807 AU 0°06'54	morning rise retrograde opposition min. Earth dist. direct	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43 16°¥24'22	-2°30'57 8.46547 AU
evening set  conjunction  minimum elong behind sun begin	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12	7°547'21 4°530'13 11°530'21 13°527'46 13°527'46 13°525'52 13°529'40	9.03807 AU 0°06'54	morning rise retrograde opposition min. Earth dist. direct evening set	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43 16°¥24'22 23°¥56'58 26°¥05'25	-2°30'57 8.46547 AU -2°08'02
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist.	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26	7°G47'21 4°G30'13 11°G30'21 13°G27'46 13°G27'46 13°G25'52 13°G29'40 13°G25'56	9.03807 AU 0°06'54 0°06'54	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21 1172 Mar 09 j 16:20	15°¥21'35 23°¥12'30 19°¥46'08 19°¥45'43 16°¥24'22 23°¥56'58 26°¥05'25 26°¥05'25	-2°30'57 8.46547 AU -2°08'02 2°08'01
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53	7°G47'21 4°G30'13 11°G30'21 13°G27'46 13°G25'52 13°G29'40 13°G25'56 15°G25'33	9.03807 AU 0°06'54 0°06'54	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£05'25	-2°30'57 8.46547 AU -2°08'02
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53 1166 Apr 01 j 02:27	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정29'40 13°정25'56 15°정25'33 22°정03'56	9.03807 AU 0°06'54 0°06'54	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£05'25 26°\£04'26 28°\£15'23	-2°30'57 8.46547 AU -2°08'02 2°08'01
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21	7°G47'21 4°G30'13 11°G30'21 13°G27'46 13°G25'52 13°G25'52 13°G25'56 15°G25'33 22°G03'56 22°G33'35	9.03807 AU  0°06'54  0°06'54  11.01308 AU	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34	15° \times 21'35 23° \times 12'30 19° \times 46'08 19° \times 45'43 16° \times 24'22 23° \times 56'58 26° \times 05'25 26° \times 04'26 28° \times 15'23 0° \times	-2°30'57 8.46547 AU -2°08'02 2°08'01
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정25'52 13°정25'56 15°정25'33 22°정03'56 22°정33'35 19°정14'17	9.03807 AU  0°06'54 0°06'54  11.01308 AU  -0°08'31	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32 1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£04'26 28°\£15'23 0°\\$\Cappa	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist.	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정29'40 13°정25'56 15°정25'33 22°정03'56 22°정33'35 19°정14'17 19°정13'17	9.03807 AU  0°06'54  0°06'54  11.01308 AU  -0°08'31	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£04'26 28°\£15'23 0°\Y 6°\Y15'49 2°\Y48'03	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU -2°44'19
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jun 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29 1166 Sep 13 j 21:02	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정25'56 15°정25'56 15°325'56 22°33'35 19°314'17 19°313'17 15°356'09	9.03807 AU  0°06'54 0°06'54  11.01308 AU  -0°08'31	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33 1172 Sep 19 j 02:54	15° \(\) \(21'\) 35 23° \(\) \(12'\) 30 19° \(\) \(46'\) 08 19° \(\) \(45'\) 43 16° \(\) \(24'\) 22 23° \(\) \(56'\) 58 26° \(\) \(05'\) 25 26° \(\) \(05'\) 25 26° \(\) \(04'\) 26 28° \(\) \(15'\) 23 0° \(\) 6° \(\) \(15'\) 49 2° \(\) \(48'\) 03 2° \(\) \(47'\) 47	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist.	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jan 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정29'40 13°정25'56 15°정25'33 22°정03'56 22°정33'35 19°정14'17 19°정13'17	9.03807 AU  0°06'54 0°06'54  11.01308 AU  -0°08'31	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33 1172 Sep 19 j 02:54 1172 Oct 30 j 17:02	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'426 28°\£15'23 0°\Y 6°\Y\\$15'49 2°\Y\\$48'03 2°\Y\\$47'47 30°\£\	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU -2°44'19
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jun 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29 1166 Sep 13 j 21:02	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정25'56 15°정25'56 15°325'56 22°33'35 19°314'17 19°313'17 15°356'09	9.03807 AU  0°06'54 0°06'54  11.01308 AU  -0°08'31	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33 1172 Sep 19 j 02:54	15°\tau21'35 23°\tau230 19°\tau46'08 19°\tau45'43 16°\tau24'22 23°\tau56'58 26°\tau05'25 26°\tau05'25 26°\tau04'26 28°\tau15'23 0°\tau6'\tau15'49 2°\tau48'03 2°\tau47'47 30°\tau5'\tau5'\tau25'02	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU -2°44'19
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 27 j 18:13 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jun 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29 1166 Sep 13 j 21:02	7°정47'21 4°정30'13 11°정30'21 13°정27'46 13°정25'52 13°정25'56 15°정25'56 15°325'56 22°33'35 19°314'17 19°313'17 15°356'09	9.03807 AU  0°06'54  0°06'54  11.01308 AU  -0°08'31 8.98239 AU	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33 1172 Sep 19 j 02:54 1172 Oct 30 j 17:02	15°\£21'35 23°\£12'30 19°\£46'08 19°\£45'43 16°\£24'22 23°\£56'58 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'25 26°\£05'426 28°\£15'23 0°\Y 6°\Y\\$15'49 2°\Y\\$48'03 2°\Y\\$47'47 30°\£\	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU -2°44'19
evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. morning rise desc. node retrograde opposition min. Earth dist. direct evening set	1165 Jun 23 j 17:06 1165 Sep 02 j 00:56 1165 Dec 11 j 09:32 1165 Dec 28 j 00:43 1165 Dec 28 j 00:43 1165 Dec 28 j 07:12 1165 Dec 28 j 07:12 1165 Dec 27 j 18:26 1166 Jun 13 j 16:53 1166 Apr 01 j 02:27 1166 Apr 25 j 20:21 1166 Jul 05 j 17:04 1166 Jul 05 j 22:29 1166 Sep 13 j 21:02 1166 Dec 22 j 21:14	7°전47'21 4°전30'13 11°전30'21 13°전27'46 13°전25'52 13°전25'56 15°전25'33 22°전03'56 22°전33'35 19°전14'17 19°전13'17 15°전56'09 22°전58'12	9.03807 AU  0°06'54  0°06'54  11.01308 AU  -0°08'31 8.98239 AU	morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.	1171 Mar 14 j 15:29 1171 Jun 28 j 17:28 1171 Sep 06 j 14:02 1171 Sep 06 j 16:13 1171 Nov 13 j 05:00 1172 Feb 21 j 13:32  1172 Mar 09 j 16:21 1172 Mar 09 j 16:20 1172 Mar 09 j 13:13 1172 Mar 26 j 23:58 1172 Apr 10 j 11:34 1172 Jul 11 j 15:25 1172 Sep 19 j 01:33 1172 Sep 19 j 02:54 1172 Oct 30 j 17:02 1172 Nov 25 j 05:37	15°\tau21'35 23°\tau230 19°\tau46'08 19°\tau45'43 16°\tau24'22 23°\tau56'58 26°\tau05'25 26°\tau05'25 26°\tau04'26 28°\tau15'23 0°\tau6'\tau15'49 2°\tau48'03 2°\tau47'47 30°\tau5'\tau5'\tau25'02	-2°30'57 8.46547 AU -2°08'02 2°08'01 10.40502 AU -2°44'19

conjunction	1173 Mar 23 j 08:13	9° <b>Ƴ</b> 17'24	2015!15		1179 May 22 j 16:06	0° <b>©</b>	
minimum elong	1173 Mar 23 j 08:13	9° <b>Υ</b> 17'24		evening set	1179 Jun 01 j 04:58	1° <b>©</b> 11'55	
max. Earth dist.	1173 Mar 23 j 06:13		10.29081 AU	evening set	1179 Juli 01 J 04.38	1 31133	
morning rise	1173 Mar 23 j 00:32 1173 Apr 09 j 19:45	11° <b>Y</b> 30'04	10.29081 AU	conjunction	1179 Jun 19 j 09:47	3° <b>©</b> 33'13	-0°30'10
retrograde	1173 Jul 25 j 20:19	19° <b>Υ</b> 38'59		minimum elong	1179 Jun 19 j 09:48	3° <b>©</b> 33'13	0°30'20
opposition	1173 Oct 02 j 18:35	16° <b>Υ</b> 10'04	-2°49'14	max. Earth dist.	1179 Jun 19 j 17:22		10.02448 AU
min. Earth dist.	1173 Oct 02 j 18:54	16° <b>Υ</b> 10'00		morning rise	1179 Jul 07 j 14:16	5°954'22	10.02440710
direct	1173 Dec 08 j 13:19	12° <b>Υ</b> 45'43	0.23717 110	retrograde	1179 Oct 20 j 01:12	14°906'26	
evening set	1174 Mar 19 j 23:44	20° <b>Υ</b> 35'35		opposition	1179 Dec 25 j 15:40	10°538'00	-0°17'14
e venning see	117 1 Mai 19 j 23.11	20 13333		min. Earth dist.	1179 Dec 25 j 09:55	10° <b>©</b> 39'11	8.04698 AU
conjunction	1174 Apr 06 j 10:47	22° <b>Ƴ</b> 49'25	-2°15'15	direct	1180 Mar 01 j 19:05	7° <b>©</b> 08'21	0.01070710
minimum elong	1174 Apr 06 j 10:48	22° <b>Υ</b> 49'25	2°15'15	asc. node	1180 May 30 j 16:22	13°526'30	
max. Earth dist.	1174 Apr 06 j 11:15	22° <b>Υ</b> 49'34	10.18845 AU	evening set	1180 Jun 15 j 07:37	15° <b>©</b> 22'24	
morning rise	1174 Apr 24 j 02:28	25° <b>Υ</b> 04'43	10.100 15 110	evening set	1100 3411 13 1 0 7.57	15 - 2222.	
morning rise	1174 Jun 06 j 08:22	0°8		conjunction	1180 Jul 03 j 12:02	17°542'44	0°03'02
retrograde	1174 Aug 09 j 06:06	3° <b>8</b> 20'31		minimum elong	1180 Jul 03 j 12:02	17°542'44	0°03'01
retrograde	1174 Oct 14 j 18:55	30°RY		behind sun begin	1180 Jul 03 j 04:42	17°540'23	0 03 01
opposition	1174 Oct 14 j 16:33	29° <b>Υ</b> 50'42	-2°44'47	behind sun end	1180 Jul 03 j 19:22	17°945'05	
min. Earth dist.	1174 Oct 16 j 15:32	29° <b>Υ</b> 50'56	8.14505 AU	max. Earth dist.	1180 Jul 03 j 19:24		10.07637 AU
direct	1174 Oct 10 j 15:32 1174 Dec 22 j 05:38	29 <b>γ</b> 30 30 26° <b>γ</b> 25'04	6.14303 AU	morning rise	1180 Jul 21 j 14:53	20°902'31	10.07037 AU
direct	-	0° <b>8</b>		-	1180 Nov 02 j 02:32	20 \$02 31 28° \$07'00	
. ,	1175 Feb 24 j 16:02			retrograde	,		0°24'08
evening set	1175 Apr 03 j 07:20	4° <b>8</b> 22'55		opposition	1181 Jan 07 j 16:21	24°539'53	
	1155 1 20:00 11	col de oue i	2005124	min. Earth dist.	1181 Jan 07 j 10:28	24°5641'05	8.11167 AU
conjunction	1175 Apr 20 j 23:11	6° <b>8</b> 39'21		direct	1181 Mar 16 j 07:43	21°5510'18	
minimum elong	1175 Apr 20 j 23:13	6° <b>8</b> 39'22		evening set	1181 Jun 30 j 05:41	29° <b>©</b> 21'28	
max. Earth dist.	1175 Apr 21 j 02:11	_	10.10378 AU		1181 Jul 05 j 07:41	$0$ ° $\Omega$	
morning rise	1175 May 08 j 19:01	8° <b>8</b> 57'05				_	
	1175 Jul 03 j 00:31	15° <b>8</b>		conjunction	1181 Jul 18 j 07:59	1° <b>Ω</b> 39'58	0°35'40
retrograde	1175 Aug 23 j 19:40	17° <b>8</b> 17'31		minimum elong	1181 Jul 18 j 07:57	1° <b>Ω</b> 39'57	0°35'39
	1175 Oct 15 j 16:14	15°₹ <b>႘</b>		max. Earth dist.	1181 Jul 18 j 15:16		10.15311 AU
opposition	1175 Oct 30 j 18:54	13° <b>8</b> 47'09	-2°30'35	morning rise	1181 Aug 05 j 07:35	3° <b>£</b> 57′33	
min. Earth dist.	1175 Oct 30 j 15:52	13° <b>8</b> 47'46	8.07107 AU	retrograde	1181 Nov 15 j 21:02	11° <b>Ω</b> 53'22	
direct	1176 Jan 05 j 04:35	10° <b>8</b> 20'20		opposition	1182 Jan 21 j 12:35	8° <b>Ω</b> 27'43	1°03'20
	1176 Mar 19 j 15:24	15° <b>8</b>		min. Earth dist.	1182 Jan 21 j 06:27	8° <b>Ω</b> 28'58	8.19917 AU
evening set	1176 Apr 16 j 23:30	18° <b>8</b> 25'04		direct	1182 Mar 30 j 16:35	4° <b>Ω</b> 58'32	
				evening set	1182 Jul 14 j 20:56	13° <b>Ω</b> 04'58	
conjunction	1176 May 04 j 20:02	20° <b>8</b> 43'46	-1°52'13		1182 Jul 30 j 01:46	15° <b>Ω</b>	
minimum elong	1176 May 04 j 20:05	20° <b>8</b> 43'47	1°52'13				
max. Earth dist.	1176 May 05 j 01:06	20° <b>8</b> 45'25	10.04187 AU	conjunction	1182 Aug 01 j 19:46	15° <b>Ω</b> 21'00	1°05'44
morning rise	1176 May 22 j 19:39	23° <b>8</b> 03'30		minimum elong	1182 Aug 01 j 19:44	15° <b>Ω</b> 20'59	1°05'44
-	1176 Jul 28 j 07:17	$\Pi^{\circ}0$		max. Earth dist.	1182 Aug 02 j 02:52		10.24991 AU
retrograde	1176 Sep 06 j 11:30	1° <b>Ⅱ</b> 25'51		morning rise	1182 Aug 19 j 14:52	17° <b>Ω</b> 35'49	
C	1176 Oct 17 j 00:37	30° <b>₹</b> 8		retrograde	1182 Nov 29 j 08:52	25° <b>Ω</b> 22'22	
opposition	1176 Nov 12 j 23:41	27° <b>8</b> 55'22	-2°07'06	opposition	1183 Feb 04 j 03:25	21° <b>Ω</b> 58'14	1°38'05
min. Earth dist.	1176 Nov 12 j 19:08	27° <b>8</b> 56'18		min. Earth dist.	1183 Feb 03 j 21:31	21° <b>Ω</b> 59'25	8.30405 AU
direct	1177 Jan 18 j 08:39	24° <b>8</b> 27'29		direct	1183 Apr 13 j 20:35	18° <b>Ω</b> 29'43	
	1177 Apr 10 j 14:30	0°II		evening set	1183 Jul 29 j 03:26	26° <b>Ω</b> 29'59	
evening set	1177 May 01 j 22:11	2° <b>∏</b> 37'34					
* · · · · · · · · · · · · · · · · · · ·				conjunction	1183 Aug 15 j 21:48	28° <b>Ω</b> 43'06	1°31'37
conjunction	1177 May 19 j 22:43	4° <b>∏</b> 57'58	-1°29'55	minimum elong	1183 Aug 15 j 21:44	28°Ω43'05	1°31'36
minimum elong	1177 May 19 j 22:47	4° <b>Ⅱ</b> 57'59		max. Earth dist.	1183 Aug 16 j 04:20		10.36088 AU
max. Earth dist.	1177 May 20 j 05:13		10.00671 AU	max. Earth dist.	1183 Aug 26 j 02:53	0° m	10.50000710
morning rise	1177 Jun 07 j 01:20	7° <b>Ⅱ</b> 19'03	10.00071710	morning rise	1183 Sep 02 j 11:38	0° Mp 54'48	
retrograde	1177 Sep 21 j 03:39	15° <b>Ⅱ</b> 40'32		retrograde	1183 Dec 12 j 11:50	8° mp 32'03	
opposition	1177 Nov 27 j 05:54	13 <b>H</b> 40 32	1025124	opposition	1184 Feb 17 j 12:47	5° My 09'26	2°06'42
min. Earth dist.	1177 Nov 27 j 00:26		8.00066 AU	min. Earth dist.	1184 Feb 17 j 12.47 1184 Feb 17 j 07:48	5° My 10'26	8.42006 AU
direct	1177 Nov 27 j 00:20 1178 Feb 01 j 16:47	8° <b>Ⅱ</b> 41'35	8.00000 AU	direct	1184 Apr 26 j 19:24	1°Mp41'49	6.42000 AU
						-•	
evening set	1178 May 17 j 00:47	16° <b>Ⅱ</b> 55'05		evening set	1184 Aug 10 j 23:44	9° <b>m</b> 34'49	
aaming-ti	1170 I 04:04:14	100∏1602	1902/00	aaminus -t:	1104 A 20 : 12 01	110 ms 44440	1052100
conjunction	1178 Jun 04 j 04:14	19° <b>Ⅱ</b> 16′23		conjunction	1184 Aug 28 j 13:01	11° Mp 44'48	1°52'08
minimum elong	1178 Jun 04 j 04:17	19° <b>Ⅱ</b> 16′24		minimum elong	1184 Aug 28 j 12:58	11° Mp 44'47	1°52'08
max. Earth dist.	1178 Jun 04 j 11:37		10.00076 AU	max. Earth dist.	1184 Aug 28 j 18:24	-•	10.47965 AU
morning rise	1178 Jun 22 j 08:35	21° <b>II</b> 37'59		morning rise	1184 Sep 14 j 21:26	13° m 53'20	
retrograde	1178 Oct 05 j 17:21	29° <b>Ⅱ</b> 55'56		retrograde	1184 Dec 24 j 07:04	21° Tp 21'40	
opposition	1178 Dec 11 j 11:48	26° <b>Ⅱ</b> 26'26		opposition	1185 Mar 01 j 16:18	18° Mp 00'29	
min. Earth dist.	1178 Dec 11 j 05:59	26° <b>Ⅱ</b> 27'38	8.00918 AU	min. Earth dist.	1185 Mar 01 j 13:03	18° Mp 01'07	8.54073 AU
direct	1179 Feb 16 j 05:18	22° <b>Ⅱ</b> 57'04		direct	1185 May 10 j 11:23	14° <b>m</b> 33'54	

evening set	1185 Aug 24 j 09:19	22° m 18'59		min. Earth dist.	1191 May 14 j 15:27	29°ML18'35	9.04735 AU
evening sec	1105 1146 21 1 05.15	22 19 10 37		direct	1191 Jul 24 j 16:52	25°M59'26	7.01755110
conjunction	1185 Sep 10 j 17:29	24° m) 25'55	2°06'39	direct	1191 Oct 06 j 11:24	0° <b>⊼</b> ¹	
minimum elong	1185 Sep 10 j 17:27	24° m) 25'55		evening set	1191 Nov 04 j 00:03	3° <b>∡</b> ¹05'06	
max. Earth dist.	1185 Sep 10 j 17.27 1185 Sep 10 j 20:31	-	10.59974 AU	evening set	1191 1100 04 1 00.03	3 × 03 00	
	1 3	-	10.39974 AU		1101 N 20 : 15-02	59.701149	1921100
morning rise	1185 Sep 27 j 20:53	26° m/31'25		conjunction	1191 Nov 20 j 15:03	5° ₹ 01'48	1°31'09
	1185 Oct 28 j 19:58	0∘ <b>⊽</b>		minimum elong	1191 Nov 20 j 15:06	5° <b>×</b> 701'49	1°31'09
retrograde	1186 Jan 05 j 19:24	3° <b>Ω</b> 51'33		max. Earth dist.	1191 Nov 20 j 08:37		11.05832 AU
opposition	1186 Mar 14 j 13:53	0° <b>≏</b> 31'37		morning rise	1191 Dec 07 j 04:26	6° <b>₹</b> ¹58'04	
min. Earth dist.	1186 Mar 14 j 12:22	0° <b>ჲ</b> 31'55	8.65943 AU	retrograde	1192 Mar 16 j 05:00	13° <b>∡</b> ′55'49	
	1186 Mar 21 j 09:52	30°R, Mp		opposition	1192 May 25 j 12:08	10° <b>∡</b> 38′29	1°38'29
direct	1186 May 23 j 19:40	27° Mp 06'11		min. Earth dist.	1192 May 25 j 17:23	10° <b>∡</b> ³37'31	9.06535 AU
	1186 Jul 23 j 23:00	0∘ <b>⊽</b>		direct	1192 Aug 04 j 16:33	7° <b>∡</b> 19′00	
evening set	1186 Sep 06 j 08:15	4° <b>ഫ</b> 43'10		evening set	1192 Nov 14 j 07:52	14° <b>≯</b> ′21'30	
conjunction	1186 Sep 23 j 11:44	6° <b>≏</b> 47'20	2°14'53	conjunction	1192 Nov 30 j 22:30	16° <b>∤</b> 718′01	1°09'19
minimum elong	1186 Sep 23 j 11:43	6° <b>£</b> 47′20	2°14'54	minimum elong	1192 Nov 30 j 22:33	16° <b>∡</b> 18′02	1°09'19
max. Earth dist.	1186 Sep 23 j 12:12	6° <b>≏</b> 47'28	10.71464 AU	max. Earth dist.	1192 Nov 30 j 16:17	16° <b>∡</b> 16'11	11.06538 AU
morning rise	1186 Oct 10 j 10:46	8° <b>≏</b> 50'09		morning rise	1192 Dec 17 j 12:07	18° <b>∡</b> 14'19	
retrograde	1187 Jan 17 j 23:41	16° <b>≙</b> 03'07		retrograde	1193 Mar 28 j 01:35	25° <b>х</b> 13′24	
opposition	1187 Mar 27 j 06:11	12° <b>Ω</b> 44'16	2°47'47	opposition	1193 Jun 06 j 13:58	21° <b>х</b> 55'34	1°10'02
min. Earth dist.	1187 Mar 27 j 06:00	12° <b>-</b> 44'18	8.76965 AU	min. Earth dist.	1193 Jun 06 j 19:28	21° <b>x</b> 53'3'	9.06076 AU
direct	1187 Jun 05 j 22:38	9° <b>£</b> 20'01	6.70903 AU	direct	1193 Aug 16 j 14:10	18° <b>х</b> 36'30	9.00070 AU
evening set	1187 Sep 18 j 21:14	16° <b>≏</b> 49'13		evening set	1193 Nov 25 j 14:59	25° <b>∡</b> ³37'15	
	1107.0 . 05:20.45	100 0 50150	2016155		1102 D 12:05:22	270 722150	0044140
conjunction	1187 Oct 05 j 20:45		2°16'55	conjunction	1193 Dec 12 j 05:32	27° <b>⋌</b> ¹33'59	0°44'48
minimum elong	1187 Oct 05 j 20:44	18° <b>≏</b> 50'59		minimum elong	1193 Dec 12 j 05:34	27° <b>⋌</b> ¹33'59	
max. Earth dist.	1187 Oct 05 j 19:30		10.81841 AU	max. Earth dist.	1193 Dec 11 j 22:36		11.04985 AU
morning rise	1187 Oct 22 j 16:03	20° <b>≏</b> 51'32		morning rise	1193 Dec 28 j 19:59	29° <b>∡</b> ³30'44	
retrograde	1188 Jan 30 j 01:33	27° <b>≏</b> 58'43			1194 Jan 02 j 02:03	0°₹	
opposition	1188 Apr 07 j 17:55	24° <b>≏</b> 40'43	2°46'19	retrograde	1194 Apr 08 j 22:43	6° <b>る</b> 32'39	
min. Earth dist.	1188 Apr 07 j 18:44	24° <b>≏</b> 40'34	8.86632 AU	opposition	1194 Jun 18 j 16:35	3° <b>る</b> 14'05	0°38'46
direct	1188 Jun 17 j 18:05	21° <b>≏</b> 17'42		min. Earth dist.	1194 Jun 18 j 22:58	3° <b>る</b> 12'54	9.03386 AU
evening set	1188 Sep 30 j 01:29	28° <b>≏</b> 39'41			1194 Aug 18 j 12:34	30°₽ <b>⋌</b> 7	
	1188 Oct 11 j 09:25	0° <b>M</b> ₊		direct	1194 Aug 28 j 08:47	29° <b>∡</b> 55′15	
	•				1194 Sep 07 j 05:12	0°రె	
conjunction	1188 Oct 16 j 21:51	0°M39'31	2°13'01	evening set	1194 Dec 06 j 22:54	6° <b>る</b> 55'46	
minimum elong	1188 Oct 16 j 21:52	0° <b>™</b> 39'31	2°13'01	C	,		
max. Earth dist.	1188 Oct 16 j 19:42		10.90705 AU	conjunction	1194 Dec 23 j 13:44	8° <b>ප</b> 53'03	0°18'25
morning rise	1188 Nov 02 j 14:16	2°M38'16		minimum elong	1194 Dec 23 j 13:44	8° <b>る</b> 53'03	0°18'25
retrograde	1189 Feb 10 j 00:09	9°M40'59		max. Earth dist.	1194 Dec 23 j 05:50		11.01239 AU
opposition	1189 Apr 20 j 01:59	6°M23'35	2°37'56	morning rise	1195 Jan 09 j 05:30	10°る50'38	11.01237110
min. Earth dist.	1189 Apr 20 j 04:25	6°M23'08	8.94633 AU	retrograde	1195 Apr 20 j 23:28	10 <b>さ</b> 5058	
			6.94033 AU	•		17 <b>3</b> 3039	0°05'45
direct	1189 Jun 30 j 05:13	3°M01'43		opposition	1195 Jun 30 j 21:18		
evening set	1189 Oct 11 j 22:20	10°M17'14		min. Earth dist.	1195 Jul 01 j 03:54	14°る36'15	8.98565 AU
				desc. node	1195 Sep 03 j 08:30	11°る20'24	
conjunction	1189 Oct 28 j 16:13	12°M15'35		direct	1195 Sep 09 j 05:24	11° <b>ට</b> 18'40	
minimum elong	1189 Oct 28 j 16:14	12°M15'36	2°03'41	evening set	1195 Dec 18 j 09:06	18° <b>る</b> 20'28	
max. Earth dist.	1189 Oct 28 j 12:18		10.97791 AU				
morning rise	1189 Nov 14 j 06:49	14°M13'04		conjunction	1196 Jan 04 j 00:46	20° <b>පි</b> 18'41	
	1100 N 21:02.16					200 7 10141	0000101
	1189 Nov 21 j 02:16	15° <b>™</b>		minimum elong	1196 Jan 04 j 00:45	20°る18'41	0°09'01
retrograde	1190 Feb 21 j 18:00	15°Մե 21°Մե12'40		minimum elong behind sun begin	1196 Jan 04 j 00:45 1196 Jan 03 j 18:46	20°る18'41 20°る16'55	0~09.01
retrograde opposition			2°23'18	Č	,		0°09'01
•	1190 Feb 21 j 18:00	21°M12'40	2°23'18 9.00729 AU	behind sun begin	1196 Jan 03 j 18:46	20° <b>පි</b> 16'55 20° <b>පි</b> 20'27	10.95423 AU
opposition	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22	21°ML12'40 17°ML55'36		behind sun begin behind sun end	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30	20° <b>පි</b> 16'55 20° <b>පි</b> 20'27	
opposition	1190 Feb 21 j 18:00 1190 May 02 j 07:08	21°M12'40 17°M55'36 17°M54'49		behind sun begin behind sun end max. Earth dist.	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45	20°පි16'55 20°පි20'27 20°පි16'32	
opposition min. Earth dist.	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02	21°M12'40 17°M55'36 17°M54'49 15°RM		behind sun begin behind sun end max. Earth dist. morning rise	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06	20°පි16'55 20°පි20'27 20°පි16'32 22°පි17'25	10.95423 AU
opposition min. Earth dist.	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40		behind sun begin behind sun end max. Earth dist. morning rise retrograde	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51	20°বි16'55 20°বි20'27 20°বි16'32 22°বි17'25 29°বි29'44	10.95423 AU
opposition min. Earth dist. direct	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58	21°M12'40 17°M55'36 17°M54'49 15°RM 14°M34'40 15°M		behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38	20° පි16'55 20° පි20'27 20° පි16'32 22° පි17'25 29° පි29'44 26° පි09'06 26° පි08'01	10.95423 AU -0°27'57
opposition min. Earth dist. direct evening set	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44	9.00729 AU	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16	20° පි16'55 20° පි20'27 20° පි16'32 22° පි17'25 29° පි29'44 26° පි09'06 26° පි08'01 22° පි50'09	10.95423 AU -0°27'57
opposition min. Earth dist. direct evening set conjunction	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44	9.00729 AU 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist.	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40	20° පි16'55 20° පි20'27 20° පි16'32 22° පි17'25 29° පි29'44 26° පි09'06 26° පි08'01 22° පි50'09 29° පි54'45	10.95423 AU -0°27'57
opposition min. Earth dist. direct evening set conjunction minimum elong	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 09 j 05:28	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03	9.00729 AU 1°49'31 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16	20° පි16'55 20° පි20'27 20° පි16'32 22° පි17'25 29° පි29'44 26° පි09'06 26° පි08'01 22° පි50'09	10.95423 AU -0°27'57
opposition min. Earth dist.  direct evening set  conjunction minimum elong max. Earth dist.	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 09 j 05:28 1190 Nov 08 j 23:34	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03 23°M.40'18	9.00729 AU 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40 1196 Dec 29 j 17:32	20°♂16'55 20°♂20'27 20°♂16'32 22°♂17'25 29°♂29'44 26°♂09'06 26°♂08'01 22°♂50'09 29°♂554'45 0°≈	10.95423 AU -0°27'57 8.91774 AU
opposition min. Earth dist. direct evening set conjunction minimum elong	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 09 j 05:28 1190 Nov 08 j 23:34 1190 Nov 25 j 19:07	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03 23°M.40'18 25°M.38'41	9.00729 AU 1°49'31 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40 1196 Dec 29 j 17:32	20°る16'55 20°る20'27 20°る16'32 22°る17'25 29°る29'44 26°る09'06 26°る08'01 22°る50'09 29°る54'45 0°≈	10.95423 AU -0°27'57 8.91774 AU -0°36'19
opposition min. Earth dist.  direct evening set conjunction minimum elong max. Earth dist. morning rise	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 08 j 23:34 1190 Nov 25 j 19:07 1191 Jan 06 j 23:53	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03 23°M.40'18 25°M.38'41 0° 🗷	9.00729 AU 1°49'31 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40 1196 Dec 29 j 17:32 1197 Jan 14 j 16:31 1197 Jan 14 j 16:30	20°る16'55 20°る20'27 20°る16'32 22°る17'25 29°る29'44 26°る09'06 26°る08'01 22°る50'09 29°る54'45 0°≈ 1°≈54'13 1°≈54'13	10.95423 AU -0°27'57 8.91774 AU -0°36'19 0°36'19
opposition min. Earth dist.  direct evening set  conjunction minimum elong max. Earth dist.	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 09 j 05:28 1190 Nov 08 j 23:34 1190 Nov 25 j 19:07 1191 Jan 06 j 23:53 1191 Mar 05 j 11:38	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03 23°M.40'18 25°M.38'41 0° \$\mathrightarrow{7}\$ 2° \$\mathrightarrow{7}\$36'36	9.00729 AU 1°49'31 1°49'31	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40 1196 Dec 29 j 17:32 1197 Jan 14 j 16:31 1197 Jan 14 j 16:30 1197 Jan 14 j 10:21	20° で16'55 20° で20'27 20° で16'32 22° で17'25 29° で29'44 26° で09'06 26° で08'01 22° で550'09 29° で554'45 0° ※ 1° ※54'13 1° ※554'13 1° ※52'22	10.95423 AU -0°27'57 8.91774 AU -0°36'19
opposition min. Earth dist.  direct evening set conjunction minimum elong max. Earth dist. morning rise	1190 Feb 21 j 18:00 1190 May 02 j 07:08 1190 May 02 j 11:22 1190 Jun 19 j 10:02 1190 Jul 12 j 12:58 1190 Aug 04 j 12:02 1190 Oct 23 j 13:24 1190 Nov 09 j 05:26 1190 Nov 08 j 23:34 1190 Nov 25 j 19:07 1191 Jan 06 j 23:53	21°M.12'40 17°M.55'36 17°M.54'49 15°RM. 14°M.34'40 15°M. 21°M.44'44 23°M.42'02 23°M.42'03 23°M.40'18 25°M.38'41 0° 🗷	9.00729 AU  1°49'31 1°49'31 11.02884 AU	behind sun begin behind sun end max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1196 Jan 03 j 18:46 1196 Jan 04 j 06:45 1196 Jan 03 j 17:30 1196 Jan 20 j 18:06 1196 May 02 j 07:01 1196 Jul 12 j 04:51 1196 Jul 12 j 10:38 1196 Sep 20 j 03:16 1196 Dec 28 j 23:40 1196 Dec 29 j 17:32 1197 Jan 14 j 16:31 1197 Jan 14 j 16:30	20°る16'55 20°る20'27 20°る16'32 22°る17'25 29°る29'44 26°る09'06 26°る08'01 22°る50'09 29°る54'45 0°≈ 1°≈54'13 1°≈54'13	10.95423 AU -0°27'57 8.91774 AU -0°36'19 0°36'19

opposition	1107 Iv. 24 : 16:02	7° <b>≈</b> 52'09	1901105	annagition	1203 Oct 11 j 05:54	24° <b>Y</b> 20'35	2017126
1.1	1197 Jul 24 j 16:02			opposition	•	24° <b>Y</b> 21'04	
min. Earth dist.	1197 Jul 24 j 20:45	7°≈51'16	8.83244 AU	min. Earth dist.	1203 Oct 11 j 03:31		8.19094 AU
direct	1197 Oct 02 j 02:32	4°≈32'52		direct	1203 Dec 16 j 19:36	20°Υ56'02	
evening set	1198 Jan 09 j 20:05	11° <b>≈</b> 41'49		evening set	1204 Mar 27 j 16:07	28° <b>Y</b> 50'32	
. ,.	1100 1 26:14.20	120 42151	100212.4		1204 Apr 05 j 17:48	$9^{\circ}$ 8	
conjunction	1198 Jan 26 j 14:20	13°≈42'51			1204 4 14:05 45	10005147	2011124
minimum elong	1198 Jan 26 j 14:18	13°≈42'50	1°02'33	conjunction	1204 Apr 14 j 05:45	1° <b>8</b> 05'47	
max. Earth dist.	1198 Jan 26 j 08:25		10.78430 AU	minimum elong	1204 Apr 14 j 05:48	1° <b>8</b> 05'48	
	1198 Feb 06 j 05:29	15° <b>≈</b>		max. Earth dist.	1204 Apr 14 j 08:44	_	10.14769 AU
morning rise	1198 Feb 12 j 11:39	15° <b>≈</b> 44'52		morning rise	1204 May 01 j 23:46	3° <b>8</b> 22'26	
retrograde	1198 May 27 j 16:55	23° <b>≈</b> 12'54		retrograde	1204 Aug 17 j 04:01	11° <b>8</b> 41'00	
opposition	1198 Aug 06 j 08:09	19° <b>≈</b> 49'42		opposition	1204 Oct 24 j 06:47	8° <b>8</b> 11'25	
min. Earth dist.	1198 Aug 06 j 12:22	19° <b>≈</b> 48'54	8.73301 AU	min. Earth dist.	1204 Oct 24 j 03:39	8° <b>8</b> 12'03	8.11241 AU
direct	1198 Oct 14 j 05:45	16° <b>≈</b> 29'53		direct	1204 Dec 29 j 16:05	4° <b>8</b> 45'42	
evening set	1199 Jan 21 j 23:41	23° <b>≈</b> 44'31		evening set	1205 Apr 11 j 05:03	12° <b>8</b> 47'22	
. ,.	1100 F 1 07:10 42	25047126	1026125	. ,.	1205 4 20:22 10	150004150	1050121
conjunction	1199 Feb 07 j 19:42	25°≈47'26		conjunction	1205 Apr 28 j 23:19	15° <b>8</b> 04'59	
minimum elong	1199 Feb 07 j 19:39		1°26'34	minimum elong	1205 Apr 28 j 23:22	15° <b>8</b> 05'00	1°59'21
max. Earth dist.	1199 Feb 07 j 14:06		10.67911 AU		1205 Apr 28 j 08:00	15° <b>8</b>	
morning rise	1199 Feb 24 j 19:38	27°≈51'32		max. Earth dist.	1205 Apr 29 j 03:19	_	10.07966 AU
	1199 Mar 15 j 06:48	0° <b>∀</b>		morning rise	1205 May 16 j 21:23	17° <b>8</b> 23'46	
retrograde	1199 Jun 09 j 20:45	5° <b>∺</b> 28'53		retrograde	1205 Aug 31 j 18:48	25° <b>8</b> 45'10	
opposition	1199 Aug 19 j 05:45	2° <b>)</b> 04′20		opposition	1205 Nov 07 j 10:43	22° <b>8</b> 15'21	
min. Earth dist.	1199 Aug 19 j 09:28	2° <b>∺</b> 03'37	8.62362 AU	min. Earth dist.	1205 Nov 07 j 07:08	•	8.05542 AU
	1199 Sep 17 j 07:43	30°R <b>≈</b>		direct	1206 Jan 12 j 18:37	18° <b>8</b> 48'32	
direct	1199 Oct 26 j 13:33	28° <b>≈</b> 43'48		evening set	1206 Apr 26 j 01:01	26° <b>8</b> 56'02	
	1199 Dec 03 j 21:04	0° <b>∀</b>					
evening set	1200 Feb 03 j 11:52	6° <b>)</b> €05'22		conjunction	1206 May 13 j 23:41	29° <b>8</b> 15'34	-1°39'50
				minimum elong	1206 May 13 j 23:44	29° <b>8</b> 15'35	1°39'50
conjunction	1200 Feb 20 j 10:18	8° <b>ℋ</b> 10′25	-1°47'09	max. Earth dist.	1206 May 14 j 04:44	29° <b>8</b> 17'13	10.03488 AU
minimum elong	1200 Feb 20 j 10:16	8° <b>ℋ</b> 10'24	1°47'08		1206 May 19 j 15:59	$\Pi$ $^{\circ}0$	
max. Earth dist.	1200 Feb 20 j 06:03	8° <b>₩</b> 09'06	10.56619 AU	morning rise	1206 Jun 01 j 01:10	1° <b>Ⅱ</b> 35'58	
morning rise	1200 Mar 08 j 13:08	10° <b>∺</b> 16'49		retrograde	1206 Sep 15 j 10:22	9° <b>Ⅱ</b> 57'36	
retrograde	1200 Jun 22 j 07:01	18° <b>₩</b> 03'56		opposition	1206 Nov 21 j 16:23	6° <b>Ⅱ</b> 27'55	-1°49'21
opposition	1200 Aug 31 j 08:59	14° <b>)</b> 38′03	-2°23'08	min. Earth dist.	1206 Nov 21 j 12:08	6° <b>Ⅱ</b> 28'47	8.02278 AU
min. Earth dist.	1200 Aug 31 j 11:39	14° <b>)</b> €37'32	8.50913 AU	direct	1207 Jan 27 j 01:54	3° <b>Ⅱ</b> 00'08	
direct	1200 Nov 07 j 05:29	11° <b>) (</b> 16′38		evening set	1207 May 11 j 02:03	11° <b>I</b> I1'53	
evening set	1201 Feb 15 j 09:39	18° <b>)</b> 46′06		-			
				conjunction	1207 May 29 j 04:19	13° <b>Ⅱ</b> 32'43	-1°14'05
conjunction	1201 Mar 04 j 11:08	20° <b>)</b> 53′33	-2°03'00	minimum elong	1207 May 29 j 04:22	13° <b>Ⅲ</b> 32'44	1°14'05
minimum elong	1201 Mar 04 j 11:07	20° <b>)</b> 53′32	2°03'00	max. Earth dist.	1207 May 29 j 10:24	13° <b>Ⅱ</b> 34'42	10.01574 AU
max. Earth dist.	1201 Mar 04 j 09:11	20° <b>升</b> 52'56	10.45073 AU	morning rise	1207 Jun 16 j 08:08	15° <b>Ⅱ</b> 54'01	
morning rise	1201 Mar 21 j 17:10	23° <b>)</b> €02'27		retrograde	1207 Sep 30 j 00:48	24° <b>Ⅱ</b> 13'18	
	1201 Jun 01 j 19:47	$0$ ° $\mathbf{\gamma}$		opposition	1207 Dec 05 j 22:24	20° <b>Ⅱ</b> 44'07	-1°14'06
retrograde	1201 Jul 06 j 02:42	0° <b>Ƴ</b> 59'15		min. Earth dist.	1207 Dec 05 j 17:17	20° <b>Ⅱ</b> 45'11	8.01687 AU
	1201 Aug 09 j 18:36	30° <b>Ŗ</b> ₩		direct	1208 Feb 10 j 13:19	17° <b>Ⅱ</b> 15'35	
opposition	1201 Sep 13 j 18:16	27° <b>)</b> €32'06	-2°39'35	evening set	1208 May 25 j 05:54	25° <b>Ⅱ</b> 29'43	
min. Earth dist.	1201 Sep 13 j 19:03	27° <b>)</b> 31′57	8.39492 AU				
direct	1201 Nov 20 j 03:21	24° <b>)</b> €09'44		conjunction	1208 Jun 12 j 10:20	27° <b>Ⅱ</b> 50'59	-0°43'45
	1202 Feb 13 j 21:53	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	1208 Jun 12 j 10:22	27° <b>I</b> 51'00	0°43'45
evening set	1202 Feb 28 j 17:33	1° <b>Ƴ</b> 47'35		max. Earth dist.	1208 Jun 12 j 17:21	27° <b>Ⅱ</b> 53'16	10.02431 AU
	-				1208 Jun 29 j 00:24	0ංම	
conjunction	1202 Mar 17 j 22:36	3° <b>Y</b> 57'36	-2°12'58	morning rise	1208 Jun 30 j 14:52	0°ഇ12'17	
minimum elong	1202 Mar 17 j 22:35	3° <b>Y</b> 57'36	2°12'58	retrograde	1208 Oct 13 j 11:04	8°926'48	
max. Earth dist.	1202 Mar 17 j 22:46	3° <b>Ƴ</b> 57'39	10.33847 AU	opposition	1208 Dec 19 j 03:10	4°958'25	-0°34'22
morning rise	1202 Apr 04 j 08:13	6° <b>Ƴ</b> 09'08		min. Earth dist.	1208 Dec 18 j 21:20	4° <b>©</b> 59'38	8.03928 AU
retrograde	1202 Jul 20 j 06:23	14° <b>Υ</b> 14'52		direct	1209 Feb 24 j 02:26	1°529'23	
opposition	1202 Sep 27 j 09:27	10° <b>Ƴ</b> 46'39	-2°48'07	evening set	1209 Jun 09 j 09:29	9°543'43	
min. Earth dist.	1202 Sep 27 j 08:19	10° <b>Y</b> 46′53	8.28686 AU	J	<b>,</b>		
direct	1202 Dec 03 j 07:09	7° <b>Υ</b> 23'15		conjunction	1209 Jun 27 j 14:21	12° <b>5</b> 04'27	-0°10'55
evening set	1202 Bec 05 j 07:05 1203 Mar 14 j 11:54	15° <b>Υ</b> 09'36		minimum elong	1209 Jun 27 j 14:21	12°504'28	
	,			behind sun begin	1209 Jun 27 j 08:52	12°502'42	
conjunction	1203 Mar 31 j 21:01	17° <b>Ƴ</b> 22'16	-2°16'03	behind sun end	1209 Jun 27 j 19:50	12°906'13	
minimum elong	1203 Mar 31 j 21:02	17° <b>Υ</b> 22'16		max. Earth dist.	1209 Jun 27 j 22:02		10.06109 AU
max. Earth dist.	1203 Mar 31 j 22:47		10.23554 AU	morning rise	1209 Jul 15 j 17:54	14°924'48	-0.00107110
morning rise	1203 Apr 18 j 10:44	19° <b>Υ</b> 36'26	10.2000 1710	retrograde	1209 Oct 27 j 15:54	22°932'32	
retrograde	1203 Apr 18 j 10.44 1203 Aug 03 j 15:39	27° <b>Υ</b> 49'38		asc. node	1209 Oct 27 j 13:34 1209 Oct 29 j 11:09	22° <b>9</b> 32'21	
1011051440	1205 11ug 05 j 15.59	2, 1 47 30		use. Houe	.207 Oct 27 j 11.09	<del></del> 3221	

minimum elong	1245 Sep 24 j 22:39	8° <b>£</b> 55'56	2°15'26	minimum elong	1251 Dec 03 i 05:08	18° <b>∡</b> 16'55	1°06'11
max. Earth dist.	1245 Sep 24 j 23:54		10.72577 AU	max. Earth dist.	1251 Dec 02 j 22:33		11.07272 AU
morning rise	1245 Oct 11 j 21:18	10° <b>⊆</b> 58'30	10.72377 110	morning rise	1251 Dec 19 j 18:46	20°×13'08	11.07272710
retrograde	1246 Jan 19 j 10:32	18° <b>⊆</b> 10'50		retrograde	1257 Dec 19 j 16:40 1252 Mar 29 j 08:34	27°×11'57	
opposition	1246 Mar 28 j 17:16	14° <b>⊆</b> 52'03	2°47'55	opposition	1252 Jun 07 j 22:07	23° <b>х</b> 54'10	1°06'01
min. Earth dist.	1246 Mar 28 j 16:09	14° <b>⊆</b> 52'16	8.78135 AU	min. Earth dist.	1252 Jun 08 j 04:16	23°×753'02	9.06693 AU
direct	1246 Jun 07 j 11:02	11° <b>⊆</b> 27'58	0.70133710	direct	1252 Aug 17 j 20:32	20°×35'14	7.00073710
evening set	1246 Sep 20 j 07:31	18° <b>£</b> 56'13		evening set	1252 Nag 17 j 20:32 1252 Nov 26 j 21:20	27° 🖈 35'29	
e venning see	12 10 Sep 20 j 07.51	10 - 20 13		evening sec	1232 1101 20 j 21.20	27 7 33 27	
conjunction	1246 Oct 07 j 06:49	20° <b>Ω</b> 57'46	2°16'39	conjunction	1252 Dec 13 j 11:50	29° <b>∡</b> ³32′08	0°41'25
minimum elong	1246 Oct 07 j 06:49	20° <b>Ω</b> 57'46	2°16'38	minimum elong	1252 Dec 13 j 11:51	29° <b>∡</b> ³32′09	0°41'25
max. Earth dist.	1246 Oct 07 j 06:40	20° <b>≏</b> 57'43	10.83064 AU	max. Earth dist.	1252 Dec 13 j 04:04	29° <b>₹</b> 29'51	11.05492 AU
morning rise	1246 Oct 24 j 01:44	22° <b>≏</b> 58'03			1252 Dec 17 j 10:20	0°రె	
	1247 Jan 22 j 03:59	$0^{\circ}$ M		morning rise	1252 Dec 30 j 02:29	1° <b>る</b> 28'52	
retrograde	1247 Jan 31 j 11:34	0°M04'30		retrograde	1253 Apr 10 j 05:15	8° <b>ප</b> 30'41	
	1247 Feb 09 j 19:03	30° <b>ŖΩ</b>		opposition	1253 Jun 20 j 00:29	5° <b>ට</b> 12'08	0°34'32
opposition	1247 Apr 10 j 04:21	26° <b>≏</b> 46'34	2°45'29	min. Earth dist.	1253 Jun 20 j 07:24	5° <b>る</b> 10'52	9.03769 AU
min. Earth dist.	1247 Apr 10 j 05:02	26° <b>≏</b> 46′26	8.87883 AU	direct	1253 Aug 29 j 16:58	1° <b>る</b> 53'22	
direct	1247 Jun 20 j 03:48	23° <b>ჲ</b> 23'42		evening set	1253 Dec 08 j 05:01	8° <b>る</b> 53'34	
	1247 Sep 26 j 00:07	$0^{\circ}$ M					
evening set	1247 Oct 02 j 10:51	0°M44'41		conjunction	1253 Dec 24 j 19:57	10°る50'50	0°14'55
				minimum elong	1253 Dec 24 j 19:58	10°る50'50	0°14'55
conjunction	1247 Oct 19 j 06:55	2°M44'18	2°12'00	behind sun begin	1253 Dec 24 j 17:05	10° <b>る</b> 49'59	
minimum elong	1247 Oct 19 j 06:56	2°M44'18	2°11'59	behind sun end	1253 Dec 24 j 22:51	10° <b>ප</b> 51'41	
max. Earth dist.	1247 Oct 19 j 04:55	2°M43'42	10.91967 AU	max. Earth dist.	1253 Dec 24 j 12:07	10° <b>පි</b> 48'31	11.01498 AU
morning rise	1247 Nov 04 j 23:09	4°M42'50		morning rise	1254 Jan 10 j 11:52	12° <b>る</b> 48'24	
retrograde	1248 Feb 12 j 07:44	11°M44'50		retrograde	1254 Apr 22 j 07:25	19° <b>る</b> 54'49	
opposition	1248 Apr 21 j 11:55	8°M27'31	2°36'13	opposition	1254 Jul 02 j 04:55	16° <b>る</b> 35'17	0°01'26
min. Earth dist.	1248 Apr 21 j 14:46	8°M26'59	8.95881 AU	min. Earth dist.	1254 Jul 02 j 11:20	16° <b>る</b> 34'06	8.98691 AU
direct	1248 Jul 01 j 15:42	5° <b>™</b> 05'47		desc. node	1254 Jul 18 j 07:50	15° <b>る</b> 25'08	
evening set	1248 Oct 13 j 06:46	12°M20'20		direct	1254 Sep 10 j 13:14	13° <b>る</b> 16'32	
				evening set	1254 Dec 19 j 15:14	20° <b>る</b> 18'10	
conjunction	1248 Oct 30 j 00:21	14°M18'29	2°02'00				
minimum elong	1248 Oct 30 j 00:23	14°M18'30	2°01'59	conjunction	1255 Jan 05 j 07:03	22° <b>る</b> 16'23	
max. Earth dist.	1248 Oct 29 j 19:56		10.99010 AU	minimum elong	1255 Jan 05 j 07:02	22° <b>る</b> 16'23	0°12'30
	1248 Nov 04 j 20:34	15°M		behind sun begin	1255 Jan 05 j 02:25	22° <b>る</b> 15'01	
morning rise	1248 Nov 15 j 14:57	16° <b>™</b> 15'47		behind sun end	1255 Jan 05 j 11:39	22° <b>る</b> 17'44	
retrograde	1249 Feb 23 j 02:14	23°M14'46		max. Earth dist.	1255 Jan 05 j 00:10	_	10.95414 AU
opposition	1249 May 03 j 16:29	19°M57'46		morning rise	1255 Jan 22 j 00:24	24° <b>る</b> 15'09	
min. Earth dist.	1249 May 03 j 20:42	19° <b>M</b> 56'59	9.01899 AU		1255 Mar 22 j 16:52	0° <b>≈</b>	
direct	1249 Jul 13 j 23:11	16°M37'00		retrograde	1255 May 04 j 14:33	1° <b>≈</b> 27'41	
evening set	1249 Oct 24 j 21:00	23°M46'09			1255 Jun 17 j 15:30	30°Ŗる	
				opposition	1255 Jul 14 j 12:25	28° <b>る</b> 06'59	
conjunction	1249 Nov 10 j 12:58	25°M43'18	1°47'14	min. Earth dist.	1255 Jul 14 j 17:57	28° <b>る</b> 05'57	8.91634 AU
minimum elong	1249 Nov 10 j 13:00	25°M43'19	1°47'13	direct	1255 Sep 22 j 09:49	24°る48'04	
max. Earth dist.	1249 Nov 10 j 07:15		11.03996 AU		1255 Dec 14 j 18:05	0° <b>≈</b>	
morning rise	1249 Nov 27 j 02:38	27°M39'48		evening set	1255 Dec 31 j 06:00	1° <b>≈</b> 52'41	
notno a J-	1249 Dec 18 j 05:16	0° 🔏 4° -₹27'12		aanin	1056 Jan 16 : 00 50	2052112	0020140
retrograde	1250 Mar 06 j 18:53	4° <b>∡</b> ³37'12	2000105	conjunction	1256 Jan 16 j 22:53	3°≈52'12	
opposition	1250 May 15 j 18:52	1° <b>∡</b> 720′13 1° <b>∡</b> 719′22	2°00'05	minimum elong max. Earth dist.	1256 Jan 16 j 22:51	3°≈52'12	0°39'40 10.87457 AU
min. Earth dist.	1250 May 15 j 23:31		9.05764 AU		1256 Jan 16 j 16:13		10.87437 AU
direct	1250 Jun 03 j 10:09	30°RM 200m 0011€		morning rise	1256 Feb 02 j 18:08	5°≈52'29	
direct	1250 Jul 26 j 01:49	28°MJ00'16 0°⊀		retrograde	1256 May 16 j 04:53	13°≈12'27	1905105
avanina aat	1250 Sep 14 j 20:27	5° <b>∡</b> ¹05'08		opposition min. Earth dist.	1256 Jul 25 j 23:50	9°≈50'31 9°≈49'32	8.82852 AU
evening set	1250 Nov 05 j 07:03	3 X.03 08			1256 Jul 26 j 05:01	9 ≈4932 6°≈31'11	6.62632 AU
conjunction	1250 Nov 21 j 22:07	7° <b>∡</b> '01'43	1°28'23	direct evening set	1256 Oct 03 j 09:11 1257 Jan 11 j 02:43	13°≈40'19	
	1250 Nov 21 j 22:10	7° 🗷 01'44	1°28'23	evening set	·	15 ≈40 19 15°≈	
minimum elong max. Earth dist.	1250 Nov 21 j 22:10 1250 Nov 21 j 16:21		11.06775 AU		1257 Jan 22 j 04:15	15 🗢	
max. Earth dist.	1250 Nov 21 j 16:21 1250 Dec 08 j 11:26	8° <b>∡</b> 757'52	11.00//3 AU	conjunction	1257 Jan 27 j 20:59	15° <b>≈</b> 41'27	-1°05'30
retrograde	1250 Dec 08 j 11:26 1251 Mar 18 j 13:36	15° <b>×</b> '57'32		minimum elong	1257 Jan 27 j 20:59 1257 Jan 27 j 20:57	15°≈41'27 15°≈41'26	
opposition	1251 May 27 j 20:29	13 <b>x</b> · 33 14 12° <b>x</b> <sup>7</sup> 37′58	1°34'51	max. Earth dist.	1257 Jan 27 j 14:03		1 03 39 10.77920 AU
min. Earth dist.	1251 May 28 j 01:35	12 <b>x</b> · 3 / 38 12° <b>x</b> 37'01	9.07371 AU	morning rise	1257 Feb 13 j 18:35	13 ≈39 20 17°≈43'35	10.77920 AU
direct	1251 May 28 J 01:35 1251 Aug 07 j 01:16	9° <b>×</b> 18'38	7.07371 AU	retrograde	1257 May 29 j 00:54	17 ≈43 33 25°≈12'07	
evening set	1251 Nov 16 j 14:31	9 <b>x</b> ·1838 16° <b>x</b> <sup>7</sup> 20′28		opposition	1257 Aug 07 j 16:08	23 ≈1207 21°≈48'51	-1°35'55
evening set	1231 110V 10J 14.31	10 ^ 40 40		min. Earth dist.	1257 Aug 07 j 10.08 1257 Aug 07 j 21:15		8.72676 AU
conjunction	1251 Dec 03 j 05:06	18° <b>∡</b> 16'54	1°06'11	direct	1257 Oct 15 j 12:10	21 ≈47 32 18°≈28'56	5.72070 AU
Jonganetion	1251 200 05 ] 05.00	10 7 10 54	1 00 11	uncor	125, Oct 15 j 12.10	10 /4/20 00	

evening set	1258 Jan 23 j 06:46	25° <b>≈</b> 44′00		conjunction minimum elong	1264 Apr 30 j 12:09 1264 Apr 30 j 12:13	17° <b>8</b> 15'58	
conjunction	1258 Feb 09 j 02:56	27° <b>≈</b> 47'01	-1°29'16	max. Earth dist.	1264 Apr 30 j 16:34	. •	1 37 20 10.06920 AU
minimum elong	1258 Feb 09 j 02:54	27°≈47'01		morning rise	1264 May 18 j 10:37	19° <b>8</b> 35'03	10.00720710
max. Earth dist.	1258 Feb 08 j 21:06		10.67171 AU	retrograde	1264 Sep 02 j 07:39	27° <b>8</b> 57'01	
morning rise	1258 Feb 26 i 03:04	29° <b>≈</b> 51'15	10.07171110	opposition	1264 Nov 08 j 22:16	24° <b>8</b> 27'09	-2°14'41
morning rise	1258 Feb 27 j 08:16	0° <b>∀</b>		min. Earth dist.	1264 Nov 08 j 18:20	•	8.04622 AU
retrograde	1258 Jun 11 j 03:54	7° <b>∺</b> 29'17		direct	1265 Jan 14 j 06:08	21° <b>8</b> 00'13	0.04022710
opposition	1258 Aug 20 j 13:55	4° <b>)</b> €04'36	-2°03'12	evening set	1265 Apr 27 j 14:19	29° <b>8</b> 08'33	
min. Earth dist.	1258 Aug 20 j 18:00	4° <b>¥</b> 03'49	8.61520 AU	evening sec	1265 May 04 j 06:14	0°П	
direct	1258 Oct 27 j 22:08	0° <b>)</b> 43′57	0.01320710		1203 May 04 J 00.14	о д	
evening set	1259 Feb 04 j 19:31	8° <b>\</b> 06'06		conjunction	1265 May 15 j 13:29	1°∏28'20	-1°37'00
evening sec	1257100 01, 17.51	0 7(00 00		minimum elong	1265 May 15 j 13:33		1°37'00
conjunction	1259 Feb 21 j 18:14	10° <b>¥</b> 11'20	-10/10/17	max. Earth dist.	1265 May 15 j 19:36		10.02732 AU
minimum elong	1259 Feb 21 j 18:11	10° <b>X</b> 11'20		morning rise	1265 Jun 02 j 15:13	3° <b>∏</b> 48'57	10.02732 AC
max. Earth dist.	1259 Feb 21 j 14:22		10.55672 AU	retrograde	1265 Sep 16 j 23:23	12° <b>Ⅱ</b> 10'49	
morning rise	1259 Mar 10 j 21:10	10 <b>X</b> 10 08 12° <b>X</b> 17'55	10.33072 AC	opposition	1265 Nov 23 j 04:25	8° <b>П</b> 41'06	-1°45'23
retrograde	1259 Jun 24 j 17:01	20°\tag{17'55}		min. Earth dist.	1265 Nov 22 j 23:18		8.01695 AU
opposition	1259 Sep 02 j 17:36	20 <b>1</b> 6° <b>1</b> 39'48	2025125	direct	1266 Jan 28 j 14:41	5° <b>П</b> 13'13	8.01093 AU
min. Earth dist.	1259 Sep 02 j 17:50 1259 Sep 02 j 19:57	16° <b>)</b> ₹39′48			3	3 щ13 13 13°Щ25'31	
		10 <b>X</b> 39 21 13° <b>X</b> 18'17	6.49664 AU	evening set	1266 May 12 j 15:57	13 112331	
direct	1259 Nov 09 j 13:19			. ,.	12(( M 20:10.22	150T4620	1010126
evening set	1260 Feb 17 j 18:02	20° <b>)</b> 48′25		conjunction	1266 May 30 j 18:33	15° <b>Ⅱ</b> 46'29	
	1000 10 07:10 10	2221/25125	200 4120	minimum elong	1266 May 30 j 18:36	15° <b>Ⅱ</b> 46'30	
conjunction	1260 Mar 05 j 19:48	22° <b>)</b> 56'06		max. Earth dist.	1266 May 31 j 01:42		10.01170 AU
minimum elong	1260 Mar 05 j 19:46	22° <b>)</b> ₹56'05		morning rise	1266 Jun 17 j 22:26	18° <b>Ⅱ</b> 07'54	
max. Earth dist.	1260 Mar 05 j 17:53		10.43961 AU	retrograde	1266 Oct 01 j 13:29	26° <b>Ⅲ</b> 27'07	
morning rise	1260 Mar 23 j 02:02	25° <b>)</b> €05'14		opposition	1266 Dec 07 j 10:41	22° <b>I</b> 57'56	
	1260 May 06 j 17:13	0° <b>Υ</b>		min. Earth dist.	1266 Dec 07 j 04:58	22° <b>∏</b> 59'07	8.01441 AU
retrograde	1260 Jul 07 j 14:01	3° <b>Y</b> 02'55		direct	1267 Feb 12 j 02:06	19° <b>Ⅱ</b> 29'19	
	1260 Sep 09 j 23:33	30° <b>₹</b>		evening set	1267 May 27 j 20:11	27° <b>Ⅱ</b> 43'45	
opposition	1260 Sep 15 j 03:24	29° <b>¥</b> 35'37			1267 Jun 14 j 09:10	0	
min. Earth dist.	1260 Sep 15 j 03:55	29° <b>∺</b> 35'31	8.38320 AU				
direct	1260 Nov 21 j 10:29	26° <b>∺</b> 13'06		conjunction	1267 Jun 15 j 00:46	0°905'05	-0°39'50
	1261 Jan 27 j 13:54	$0^{\circ}$ $\Upsilon$		minimum elong	1267 Jun 15 j 00:48	0° <b>©</b> 05'06	0°39'50
evening set	1261 Mar 02 j 02:57	3° <b>Ƴ</b> 51'49		max. Earth dist.	1267 Jun 15 j 08:17	0° <b>©</b> 07'32	10.02339 AU
				morning rise	1267 Jul 03 j 05:17	2° <b>5</b> 26'24	
conjunction	1261 Mar 19 j 08:15	6° <b>Y</b> 02′05	-2°13'39	retrograde	1267 Oct 16 j 00:05	10° <b>©</b> 40'38	
minimum elong	1261 Mar 19 j 08:14	6° <b>Ƴ</b> 02'05	2°13'39	opposition	1267 Dec 21 j 15:33	7° <b>©</b> 12'19	-0°29'20
max. Earth dist.	1261 Mar 19 j 07:39	6° <b>Ƴ</b> 01'54	10.32624 AU	min. Earth dist.	1267 Dec 21 j 09:44	7° <b>©</b> 13'31	8.03966 AU
morning rise	1261 Apr 05 j 18:15	8° <b>Y</b> 13'53		direct	1268 Feb 26 j 14:18	3° <b>5</b> 43'13	
retrograde	1261 Jul 21 j 17:24	16° <b>Ƴ</b> 20′30		evening set	1268 Jun 10 j 24:00	11° <b>©</b> 57'42	
opposition	1261 Sep 28 j 19:05	12° <b>Y</b> ′52'09	-2°48'29				
min. Earth dist.	1261 Sep 28 j 18:20	12° <b>Ƴ</b> 52'18	8.27433 AU	conjunction	1268 Jun 29 j 04:47	14° <b>©</b> 18'26	-0°06'50
direct	1261 Dec 04 j 16:00	9° <b>Ƴ</b> 28'34		minimum elong	1268 Jun 29 j 04:46	14° <b>©</b> 18'26	0°06'51
evening set	1262 Mar 15 j 22:13	17° <b>Ƴ</b> 15'55		behind sun begin	1268 Jun 28 j 21:57	14° <b>©</b> 16'14	
				behind sun end	1268 Jun 29 j 11:36	14° <b>©</b> 20'37	
conjunction	1262 Apr 02 j 07:38	19° <b>Ƴ</b> 28'52	-2°15'51	max. Earth dist.	1268 Jun 29 j 12:16	14° <b>©</b> 20'50	10.06274 AU
minimum elong	1262 Apr 02 j 07:39	19° <b>Ƴ</b> 28'53	2°15'52	morning rise	1268 Jul 17 j 08:11	16° <b>©</b> 38'42	
max. Earth dist.	1262 Apr 02 j 08:27	19° <b>Y</b> 29'08	10.22293 AU	asc. node	1268 Sep 14 j 08:07	22° <b>©</b> 57'48	
morning rise	1262 Apr 19 j 21:49	21° <b>Y</b> ′43′20		retrograde	1268 Oct 29 j 05:30	24° <b>©</b> 46'01	
retrograde	1262 Aug 05 j 02:25	29° <b>Y</b> ′57'24		opposition	1269 Jan 03 j 17:50	21° <b>©</b> 18'47	0°12'11
opposition	1262 Oct 12 j 16:15	26° <b>Ƴ</b> 28'14	-2°46'50	min. Earth dist.	1269 Jan 03 j 12:17	21° <b>©</b> 19'55	8.09213 AU
min. Earth dist.	1262 Oct 12 j 14:31	26° <b>Y</b> 28'35	8.17841 AU	direct	1269 Mar 12 j 03:17	17° <b>©</b> 49'28	
direct	1262 Dec 18 j 05:39	23° <b>Y</b> 03'31		evening set	1269 Jun 26 j 00:09	26° <b>©</b> 01'50	
	1263 Mar 22 j 06:36	0°B					
evening set	1263 Mar 30 j 03:20	0° <b>8</b> 59'01		conjunction	1269 Jul 14 j 03:19	28° <b>5</b> 21'02	0°26'19
				minimum elong	1269 Jul 14 j 03:18	28° <b>5</b> 21'02	0°26'18
conjunction	1263 Apr 16 j 17:24	3° <b>8</b> 14'36	-2°10'27	max. Earth dist.	1269 Jul 14 j 10:17	28°523'17	10.12795 AU
minimum elong	1263 Apr 16 j 17:26	3° <b>8</b> 14'37	2°10'27		1269 Jul 26 j 23:39	$0$ $^{\circ}\Omega$	
max. Earth dist.	1263 Apr 16 j 19:59	3° <b>8</b> 15'26	10.13559 AU	morning rise	1269 Aug 01 j 04:02	0° <b>Ω</b> 39'26	
morning rise	1263 May 04 j 11:53	5° <b>8</b> 31'34		retrograde	1269 Nov 12 j 02:50	8° <b>Ω</b> 38'25	
retrograde	1263 Aug 19 j 16:02	13° <b>8</b> 50'54		opposition	1270 Jan 17 j 15:59	5° <b>Ω</b> 12'25	0°52'17
opposition	1263 Oct 26 j 17:48	10° <b>8</b> 21'15	-2°35'30	min. Earth dist.	1270 Jan 17 j 10:55	5° <b>Ω</b> 13'27	8.16893 AU
min. Earth dist.	1263 Oct 26 j 15:00	10° <b>8</b> 21'49	8.10092 AU	direct	1270 Mar 26 j 14:37	1° <b>Ω</b> 43'11	
direct	1264 Jan 01 j 02:24	6° <b>8</b> 55'23		evening set	1270 Jul 10 j 18:18	9° <b>Ω</b> 51'30	
	1204 Jan 01   02.24	0 03323		CVCIIIIg SCt	12/0 Jul 10   10.10	7 0 631 30	
evening set	1264 Apr 12 j 17:21	14° <b>8</b> 58'02		evening set	12/0341 10 110.10	) <b>00</b> 5130	
evening set	-			conjunction	1270 Jul 28 j 18:20	12°Ω08'25	0°57'21

1276 Oct 13 j 14:46

conjunction

28° 200'40 2° 14'44

conjunction	1282 Dec 20 j 05:50	6° <b>ප</b> 08'01	0°26'40	direct	1288 Nov 03 j 03:54	7° <b>¥</b> 49'36	
minimum elong	1282 Dec 20 j 05:51	6° <b>そ</b> 08'01	0°26'40	evening set	1289 Feb 11 j 05:30	15° <b>)</b> 14'54	
max. Earth dist.	1282 Dec 19 j 23:53		11.06042 AU	evening sec	1209100 11 1 00.50	13 /(1131	
morning rise	1283 Jan 05 j 20:51	8° <b>る</b> 04'52	11.000.2110	conjunction	1289 Feb 28 j 05:29	17° <b>¥</b> 21'06	-1°58'12
retrograde	1283 Apr 17 j 09:37	15° <b>る</b> 08'00		minimum elong	1289 Feb 28 j 05:27	17° <b>¥</b> 21'05	
opposition	1283 Jun 27 j 05:12	11° <b>る</b> 49'34	0°16'05	max. Earth dist.	1289 Feb 28 j 00:00		10.51310 AU
min. Earth dist.	1283 Jun 27 j 10:34	11° <b>る</b> 48'35	9.03925 AU	morning rise	1289 Mar 17 j 10:07	19° <b>)</b> 28'45	
direct	1283 Sep 05 j 16:40	8° <b>ප</b> 31'32		retrograde	1289 Jul 01 j 13:56	27° <b>¥</b> 20′50	
evening set	1283 Dec 14 j 23:31	15° <b>る</b> 31'15		opposition	1289 Sep 09 j 09:08	23° <b>)</b> 54′26	-2°34'42
desc. node	1283 Dec 26 j 11:41	16° <b>る</b> 52'15		min. Earth dist.	1289 Sep 09 j 12:38	23° <b>)</b> 53′45	8.45266 AU
				direct	1289 Nov 15 j 22:18	20° <b>)</b> 32′34	
conjunction	1283 Dec 31 j 14:39	17° <b>る</b> 28'40	-0°00'23	evening set	1290 Feb 24 j 08:33	28° <b>∺</b> 06′20	
minimum elong	1283 Dec 31 j 14:39	17° <b>る</b> 28'40	0°00'24		1290 Mar 11 j 11:59	$0$ ° $\Upsilon$	
behind sun begin	1283 Dec 31 j 07:42	17° <b>る</b> 26'38					
behind sun end	1283 Dec 31 j 21:36	17° <b>る</b> 30'42		conjunction	1290 Mar 13 j 11:57	0° <b>Y</b> 15′08	
max. Earth dist.	1283 Dec 31 j 07:30		11.01281 AU	minimum elong	1290 Mar 13 j 11:56	0° <b>Y</b> 15′07	
morning rise	1284 Jan 17 j 07:13	19° <b>る</b> 26'32		max. Earth dist.	1290 Mar 13 j 08:37		10.39138 AU
retrograde	1284 Apr 28 j 12:07	26° <b>る</b> 34'56		morning rise	1290 Mar 30 j 20:06	2° <b>Y</b> 25'26	
opposition	1284 Jul 08 j 10:36	23° <b>る</b> 15'32		retrograde	1290 Jul 15 j 12:17	10° <b>Y</b> 27′08	
min. Earth dist.	1284 Jul 08 j 16:45	23° <b>る</b> 14'24	8.98079 AU	opposition	1290 Sep 22 j 21:30	6° <b>Y</b> 59'19	
direct	1284 Sep 16 j 11:54	19° <b>る</b> 57'26		min. Earth dist.	1290 Sep 22 j 23:23		8.33380 AU
evening set	1284 Dec 25 j 11:29	26° <b>る</b> 59'21		direct	1290 Nov 29 j 00:54	3° <b>Y</b> 36′12	
		_		evening set	1291 Mar 09 j 22:08	11° <b>Y</b> 18'46	
conjunction	1285 Jan 11 j 03:34	28° <b>ろ</b> 57'52					
minimum elong	1285 Jan 11 j 03:33	28°る57'51		conjunction	1291 Mar 27 j 05:36	13° <b>Y</b> 30′19	
max. Earth dist.	1285 Jan 10 j 20:20		10.94406 AU	minimum elong	1291 Mar 27 j 05:36	13° <b>Y</b> 30'19	
	1285 Jan 19 j 20:09	0° <b>≈</b>		max. Earth dist.	1291 Mar 27 j 04:46		10.27629 AU
morning rise	1285 Jan 27 j 21:53	0°≈57'03		morning rise	1291 Apr 13 j 17:39	15° <b>Y</b> 43′22	
retrograde	1285 May 10 j 21:51	8°≈12'09	0050122	retrograde	1291 Jul 29 j 18:18	23°Y53'31	2040140
opposition	1285 Jul 20 j 19:11	4°≈51'33		opposition	1291 Oct 06 j 15:24	20° <b>Y</b> 24'31 20° <b>Y</b> 24'33	
min. Earth dist.	1285 Jul 21 j 01:13	4°≈50'26 1°≈33'09	8.90206 AU	min. Earth dist. direct	1291 Oct 06 j 15:15 1291 Dec 12 j 09:52	20°γ′24′33 17° <b>Υ</b> ′00′06	8.22463 AU
direct evening set	1285 Sep 28 j 11:11 1286 Jan 06 j 04:33	1 ≈33 09 8°≈38'47		evening set	1291 Dec 12 j 09.32 1292 Mar 22 j 22:04	24° <b>Υ</b> 51'20	
evening set	1200 Jan 00 J 04.33	0 ~ 30 4 /		evening set	1292 Wai 22 j 22.04	24   31 20	
conjunction	1286 Jan 22 i 22:02	10°≈38'45	-0°54'15	conjunction	1292 Apr 09 i 10:02	27° <b>Ƴ</b> 05'38	-2°13'58
conjunction minimum elong	1286 Jan 22 j 22:02 1286 Jan 22 j 22:00	10°≈38'45 10°≈38'45		conjunction minimum elong	1292 Apr 09 j 10:02 1292 Apr 09 j 10:03	27° <b>Υ</b> 05'38 27° <b>Υ</b> 05'39	
minimum elong	1286 Jan 22 j 22:00	10° <b>≈</b> 38'45	0°54'15	minimum elong	1292 Apr 09 j 10:03	27° <b>Y</b> 05'39	2°13'59
minimum elong max. Earth dist.	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26	10°≈38'45 10°≈36'46		minimum elong max. Earth dist.	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07	27° <b>Υ</b> 05'39 27° <b>Υ</b> 05'59	
minimum elong	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15	10° <b>≈</b> 38'45	0°54'15	minimum elong	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19	27° <b>Y</b> 05'39 27° <b>Y</b> 05'59 29° <b>Y</b> 21'22	2°13'59
minimum elong max. Earth dist. morning rise	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10	10°≈38'45 10°≈36'46 12°≈39'37	0°54'15	minimum elong max. Earth dist. morning rise	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45	27°Y05'39 27°Y05'59 29°Y21'22 0°8	2°13'59
minimum elong max. Earth dist.	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15	10°≈38'45 10°≈36'46 12°≈39'37 15°≈	0°54'15 10.85586 AU	minimum elong max. Earth dist.	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19	27° <b>Y</b> 05'39 27° <b>Y</b> 05'59 29° <b>Y</b> 21'22	2°13'59 10.17411 AU
minimum elong max. Earth dist. morning rise retrograde	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48	0°54'15 10.85586 AU	minimum elong max. Earth dist. morning rise retrograde	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43	27°Υ05'39 27°Υ05'59 29°Υ21'22 0°႘ 7°႘38'11 4°႘08'20	2°13'59 10.17411 AU
minimum elong max. Earth dist. morning rise retrograde opposition	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48	0°54'15 10.85586 AU -1°22'21	minimum elong max. Earth dist. morning rise retrograde opposition	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26	27°Υ05'39 27°Υ05'59 29°Υ21'22 0°႘ 7°႘38'11 4°႘08'20	2°13'59 10.17411 AU -2°42'04
minimum elong max. Earth dist. morning rise retrograde opposition	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49	0°54'15 10.85586 AU -1°22'21	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42	2°13'59 10.17411 AU -2°42'04
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈	0°54'15 10.85586 AU -1°22'21	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37	2°13'59 10.17411 AU -2°42'04
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53	0°54'15 10.85586 AU -1°22'21	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37	2°13'59 10.17411 AU -2°42'04 8.13117 AU
minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈	0°54'15 10.85586 AU -1°22'21	minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37 8°841'51 10°858'44 10°858'44	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct evening set conjunction	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈	0°54'15 10.85586 AU -1°22'21 8.80530 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37 8°841'51 10°858'44 10°858'45 10°859'36	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set  conjunction minimum elong	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15 1287 Feb 03 j 23:26 1287 Feb 03 j 23:23	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈ 20°≈32'47 22°≈34'31 22°≈34'31	0°54'15 10.85586 AU -1°22'21 8.80530 AU -1°18'59 1°18'58	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37 8°841'51 10°858'44 10°858'45 10°859'36 13°816'53	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15 1287 Feb 03 j 23:26 1287 Feb 03 j 23:23 1287 Feb 03 j 17:07	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈ 20°≈32'47  22°≈34'31 22°≈34'31 22°≈34'31	0°54'15 10.85586 AU -1°22'21 8.80530 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34 1293 May 25 j 16:11	27°Y05'39 27°Y05'59 29°Y21'22 0°B 7°B38'11 4°B08'20 4°B08'42 0°B42'37 8°B41'51 10°B58'44 10°B58'45 10°B59'36 13°B16'53 15°B	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist.  direct  evening set  conjunction minimum elong	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15 1287 Feb 03 j 23:23 1287 Feb 03 j 17:07 1287 Feb 03 j 17:07 1287 Feb 03 j 17:07 1287 Feb 03 j 21:59	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°₹≈ 13°≈21'53 15°≈ 20°≈32'47  22°≈34'31 22°≈34'31 22°≈32'36 24°≈37'22	0°54'15 10.85586 AU -1°22'21 8.80530 AU -1°18'59 1°18'58	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34 1293 May 25 j 16:11 1293 Aug 26 j 21:59	27°Y05'39 27°Y05'59 29°Y21'22 0°B 7°B38'11 4°B08'20 4°B08'42 0°B42'37 8°B41'51 10°B58'44 10°B58'45 10°B59'36 13°B16'53 15°B 21°B38'02	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27 10.09071 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 25 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15 1287 Feb 03 j 23:23 1287 Feb 03 j 17:07 1287 Feb 03 j 17:07 1287 Feb 03 j 17:07 1287 Feb 20 j 21:59 1287 Apr 14 j 06:48	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈ 20°≈32'47 22°≈34'31 22°≈34'31 22°≈32'36 24°≈37'22 0°;€	0°54'15 10.85586 AU -1°22'21 8.80530 AU -1°18'59 1°18'58	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	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27 1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34 1293 May 25 j 16:11 1293 Aug 26 j 21:59 1293 Nov 02 j 17:25	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37 8°841'51 10°858'44 10°858'45 10°859'36 13°816'53 15°8 21°838'02 18°807'42	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27 10.09071 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  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. direct	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 02 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15  1287 Feb 03 j 23:23 1287 Feb 03 j 23:23 1287 Feb 03 j 23:23 1287 Feb 03 j 17:07 1287 Feb 03 j 17:07 1287 Feb 20 j 21:59 1287 Apr 14 j 06:48 1287 Jun 05 j 14:41 1287 Jul 29 j 14:44 1287 Aug 15 j 02:46 1287 Aug 15 j 07:22 1287 Oct 22 j 16:53 1288 Jan 06 j 15:33 1288 Feb 16 j 09:33 1288 Feb 16 j 09:30 1288 Feb 16 j 09:30 1288 Feb 16 j 09:30 1288 Feb 16 j 09:31 1288 Feb 16 j 09:30 1288 Feb 16 j 09:31	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈ 20°≈32'47  22°≈34'31 22°≈34'31 22°≈32'36 24°≈37'22 0°	0°54'15 10.85586 AU -1°22'21 8.80530 AU -1°18'59 1°18'58 10.75125 AU -1°51'18 8.69446 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27  1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34 1293 May 25 j 16:11 1293 Aug 26 j 21:59 1293 Nov 02 j 17:25 1293 Nov 02 j 17:25 1293 Nov 02 j 14:26 1293 Dec 20 j 14:20 1294 Jan 08 j 01:26 1294 Jan 26 j 12:10 1294 Apr 21 j 01:01  1294 May 08 j 22:10 1294 May 08 j 22:13 1294 May 09 j 02:09 1294 May 26 j 22:31 1294 Jun 16 j 18:26 1294 Sep 10 j 13:46	27°Y05'39 27°Y05'59 29°Y21'22 0°B 7°B38'11 4°B08'20 4°B08'42 0°B42'37 8°B41'51 10°B58'44 10°B58'45 10°B59'36 13°B16'53 15°B 21°B38'02 18°B07'42 18°B08'19 15°RB 14°B40'44 15°B 22°B46'47 25°B05'52 25°B05'53 25°B07'10 27°B25'59 0°II 5°II48'41	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27 10.09071 AU -2°25'38 8.05899 AU -1°47'23 1°47'23 10.03124 AU
minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde  opposition min. Earth dist. direct  evening set  conjunction min. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. direct  evening set  conjunction minimum elong max. Earth dist. morning rise retrograde	1286 Jan 22 j 22:00 1286 Jan 22 j 15:26 1286 Feb 08 j 18:15 1286 Mar 01 j 10:10 1286 May 23 j 14:38 1286 Aug 02 j 08:19 1286 Aug 02 j 13:33 1286 Aug 02 j 17:07 1286 Oct 10 j 11:31 1286 Nov 23 j 16:20 1287 Jan 18 j 04:15  1287 Feb 03 j 23:23 1287 Feb 03 j 23:23 1287 Feb 03 j 23:23 1287 Feb 03 j 17:07 1287 Feb 20 j 21:59 1287 Apr 14 j 06:48 1287 Jun 05 j 14:41 1287 Jul 29 j 14:44 1287 Aug 15 j 02:46 1287 Aug 15 j 07:22 1287 Oct 22 j 16:53 1288 Jan 06 j 15:33 1288 Jan 30 j 12:17  1288 Feb 16 j 09:30 1288 Feb 16 j 09:30 1288 Feb 16 j 03:12 1288 Mar 04 j 10:58 1288 Jun 17 j 22:56	10°≈38'45 10°≈36'46 12°≈39'37 15°≈ 20°≈02'45 16°≈40'48 16°≈39'49 15°R≈ 13°≈21'53 15°≈ 20°≈32'47  22°≈34'31 22°≈34'31 22°≈32'36 24°≈37'22 0° \tau 2°\tau 2°\tau 30°R≈ 28°≈46'16 28°≈45'24 25°≈26'35 0°\tau 2°\tau 4°\tau 4'\tau 4'\	0°54'15 10.85586 AU -1°22'21 8.80530 AU -1°18'59 1°18'58 10.75125 AU -1°51'18 8.69446 AU -1°40'43 1°40'42 10.63509 AU	minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1292 Apr 09 j 10:03 1292 Apr 09 j 11:07 1292 Apr 27 j 02:19 1292 May 02 j 05:45 1292 Aug 12 j 06:43 1292 Oct 19 j 14:26 1292 Oct 19 j 12:38 1292 Dec 25 j 01:19 1293 Apr 06 j 07:27  1293 Apr 24 j 00:04 1293 Apr 24 j 00:07 1293 Apr 24 j 00:07 1293 Apr 24 j 02:47 1293 May 11 j 20:34 1293 May 25 j 16:11 1293 Aug 26 j 21:59 1293 Nov 02 j 17:25 1293 Nov 02 j 14:26 1293 Dec 20 j 14:20 1294 Jan 08 j 01:26 1294 Jan 08 j 01:26 1294 Jan 26 j 12:10 1294 May 08 j 22:10 1294 May 08 j 22:13 1294 May 09 j 02:09 1294 May 09 j 02:09 1294 May 26 j 22:31 1294 Jun 16 j 18:26	27°Y05'39 27°Y05'59 29°Y21'22 0°8 7°838'11 4°808'20 4°808'42 0°842'37 8°841'51 10°858'45 10°859'36 13°816'53 15°8 21°838'02 18°807'42 18°808'19 15°88 14°840'44 15°8 22°846'47 25°805'52 25°805'53 25°805'59 0°II 5°IL48'41 2°IL18'17	2°13'59 10.17411 AU -2°42'04 8.13117 AU -2°04'26 2°04'27 10.09071 AU -2°25'38 8.05899 AU -1°47'23 1°47'23 10.03124 AU
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direct	1295 Jan 22 j 07:42	28° <b>8</b> 50'14		minimum elong	1300 Aug 04 j 20:50	19° <b>Ω</b> 41'48	
	1295 Feb 26 j 19:29	0°Ⅱ 7°Ⅱ01'25		max. Earth dist.	1300 Aug 05 j 04:31		10.26071 AU
evening set	1295 May 06 j 00:48	/°Щ01′25		morning rise	1300 Aug 22 j 14:57	21° <b>Ω</b> 56'11	
. ,.	1205 M 24:01.52	001122107	1000107	retrograde	1300 Dec 02 j 06:30	29° <b>Ω</b> 41'36	1045145
conjunction	1295 May 24 j 01:53	9° <b>Ⅱ</b> 22'07		opposition	1301 Feb 07 j 01:45	26° <b>Ω</b> 17'36	
minimum elong max. Earth dist.	1295 May 24 j 01:57	9° <b>Ⅲ</b> 22'08 9° <b>Ⅲ</b> 23'48	1°23'38 9.99945 AU	min. Earth dist.	1301 Feb 06 j 20:26	26° <b>Ω</b> 18'40 22° <b>Ω</b> 49'05	8.31621 AU
	1295 May 24 j 07:01 1295 Jun 11 j 05:09	9 <b>П</b> 23 48 11° <b>П</b> 43'29	9.99943 AU	direct	1301 Apr 16 j 20:15	0° m	
morning rise		20° <b>I</b> 104'55		avanina aat	1301 Jul 25 j 12:08	0°Mp48'35	
retrograde	1295 Sep 25 j 04:41		1927/50	evening set	1301 Aug 01 j 03:48	U 111/4633	
opposition min. Earth dist.	1295 Dec 01 j 05:35 1295 Dec 01 j 01:08	16° <b>Ⅱ</b> 34'50	7.99515 AU	amiumation	1201 Aug 10 : 21:00	20 ma () 1/1 /	1°37'10
	,	10 Д3346 13°Д05'55	7.99313 AU	conjunction	1301 Aug 18 j 21:08	3° Mp 01'14 3° Mp 01'13	1°37'10 1°37'10
direct	1296 Feb 05 j 18:20			minimum elong	1301 Aug 18 j 21:05		
evening set	1296 May 20 j 04:19	21° <b>Ⅱ</b> 20′15		max. Earth dist.	1301 Aug 19 j 03:14		10.37410 AU
:	1207 I 07:00:07	220T/411/4/	0954129	morning rise	1301 Sep 05 j 10:03	5° Mp 12'29	
conjunction	1296 Jun 07 j 08:07	23° <b>∏</b> 41'44		retrograde	1301 Dec 15 j 08:32	12° Mp 48'34	2012141
minimum elong	1296 Jun 07 j 08:09	23° <b>I</b> I41'45		opposition	1302 Feb 20 j 10:23	9° Mp 26'07	2°12'41
max. Earth dist.	1296 Jun 07 j 14:30	23° <b>Ⅱ</b> 43'49	9.99728 AU	min. Earth dist.	1302 Feb 20 j 06:07	9° Mp 26'57	8.43444 AU
morning rise	1296 Jun 25 j 12:46	26° <b>Ⅱ</b> 03'27		direct	1302 Apr 30 j 18:20	5° m 58'33	
_	1296 Jul 28 j 12:24	0°€		evening set	1302 Aug 14 j 22:38	13° <b>m</b> 50'36	
retrograde	1296 Oct 08 j 16:46	4° <b>©</b> 20'58					
opposition	1296 Dec 14 j 11:31	0° <b>©</b> 51'36		conjunction	1302 Sep 01 j 10:52	16° Mp 00'07	1°56'16
min. Earth dist.	1296 Dec 14 j 06:04	0°952'44	8.00764 AU	minimum elong	1302 Sep 01 j 10:49	16° Mp 00'06	1°56'16
	1296 Dec 24 j 22:46	30°RⅡ		max. Earth dist.	1302 Sep 01 j 15:12	16° Mp 01'28	10.49482 AU
direct	1297 Feb 19 j 06:59	27° <b>Ⅱ</b> 22'05		morning rise	1302 Sep 18 j 18:31	18°M/08'12	
	1297 Apr 15 j 05:34	0		retrograde	1302 Dec 28 j 01:07	25° My 35'23	
evening set	1297 Jun 04 j 08:41	5° <b>©</b> 37'25		opposition	1303 Mar 05 j 12:58	22° <b>m</b> 14'21	2°32'12
				min. Earth dist.	1303 Mar 05 j 09:24	22° Mp 15'03	8.55681 AU
conjunction	1297 Jun 22 j 13:37	7° <b>©</b> 58'44	-0°22'22	direct	1303 May 14 j 10:47	18° <b>™</b> 47'55	
minimum elong	1297 Jun 22 j 13:38	7° <b>©</b> 58'44	0°22'22	evening set	1303 Aug 28 j 06:36	26° Mp31′53	
max. Earth dist.	1297 Jun 22 j 21:05	8° <b>©</b> 01'10	10.02500 AU				
morning rise	1297 Jul 10 j 17:59	10° <b>©</b> 19'50		conjunction	1303 Sep 14 j 13:54	28° M 38'22	2°09'12
retrograde	1297 Oct 23 j 00:50	18° <b>©</b> 31'13		minimum elong	1303 Sep 14 j 13:52	28° Mp 38'22	2°09'13
opposition	1297 Dec 28 j 15:18	15° <b>©</b> 02'52	-0°07'10	max. Earth dist.	1303 Sep 14 j 16:58	28° <b>m</b> 39'19	10.61654 AU
min. Earth dist.	1297 Dec 28 j 08:57	15° <b>©</b> 04'11	8.04946 AU		1303 Sep 25 j 16:46	0∘ <b>ত</b>	
asc. node	1298 Mar 03 j 23:28	11° <b>©</b> 33'19		morning rise	1303 Oct 01 j 16:32	0° <b>ჲ</b> 43'26	
direct	1298 Mar 05 j 20:33	11°533'07		retrograde	1304 Jan 09 j 12:38	8° <b>ഫ</b> 02'29	
evening set	1298 Jun 19 j 10:57	19° <b>©</b> 47'14		opposition	1304 Mar 17 j 09:55	4° <b>≏</b> 42'42	2°43'56
5 · 5 · · · · · · · · · · · · · · · · ·				min. Earth dist.	1304 Mar 17 j 06:59	4° <b>£</b> 43'16	8.67702 AU
conjunction	1298 Jul 07 j 15:16	22° <b>©</b> 07'27	0°11'03	direct	1304 May 26 j 18:59	1° <b>⊆</b> 17'30	0.07702710
minimum elong	1298 Jul 07 j 15:15	22°507'27		evening set	1304 Sep 09 i 03:42	8° <b>£</b> 53'10	
behind sun begin	1298 Jul 07 j 09:50	22°505'43	0 11 03	evening sec	1301 Sep 03 j 03.12	0 -33 10	
behind sun end	1298 Jul 07 j 20:41	22°509'11		conjunction	1304 Sep 26 j 06:34	10° <b>£</b> 56'54	2°15'50
max. Earth dist.	1298 Jul 07 j 23:28		10.08079 AU	minimum elong	1304 Sep 26 j 06:33	10° <b>⊆</b> 56'53	
morning rise	1298 Jul 25 j 17:35	24° <b>©</b> 27'01	10.08079 AU	max. Earth dist.	1304 Sep 26 j 08:51		10.73316 AU
morning rise	1298 Sep 13 j 16:13	24 <b>3</b> 2/01 0° <b>Ω</b>		morning rise	1304 Oct 13 j 04:46	10 <b>=</b> 57 35 12° <b>£</b> 59'16	10.73310 AU
				=			
retrograde	1298 Nov 06 j 02:09	2° <b>£</b> 30′36		retrograde	1305 Jan 20 j 18:41	20° <b>£</b> 11'10	2047157
	1298 Dec 31 j 01:07	30°₹©	0022157	opposition min. Earth dist.	1305 Mar 30 j 01:30	16° <b>£</b> 52'27	
opposition	1299 Jan 11 j 15:35	29°503'33	0°33'57		1305 Mar 30 j 00:09	16° <b>£</b> 52'42	8.78910 AU
min. Earth dist.	1299 Jan 11 j 08:48	29°504'56	8.11788 AU	direct	1305 Jun 08 j 18:11	13° <b>£</b> 28'29	
direct	1299 Mar 20 j 08:39	25° <b>©</b> 33'53		evening set	1305 Sep 21 j 15:04	20° <b>£</b> 56′06	
	1299 Jun 02 j 12:31	0° <b>Ω</b>			1205.0 . 00 . 1	220 2 57:27	2017/10
evening set	1299 Jul 04 j 08:32	3° <b>Ω</b> 44'49		conjunction	1305 Oct 08 j 14:04	22° <b>£</b> 57'27	
		_		minimum elong	1305 Oct 08 j 14:04	22° <b>≙</b> 57'27	
conjunction	1299 Jul 22 j 10:27	6° <b>Ω</b> 03'03		max. Earth dist.	1305 Oct 08 j 14:26		10.83888 AU
minimum elong	1299 Jul 22 j 10:25	6° <b>Ω</b> 03'02	0°43'16	morning rise	1305 Oct 25 j 08:44	24° <b>£</b> 57'36	
max. Earth dist.	1299 Jul 22 j 18:49		10.16099 AU		1305 Dec 13 j 20:07	0° <b>M</b> ₊	
morning rise	1299 Aug 09 j 09:09	8° <b>Ω</b> 20'18		retrograde	1306 Feb 01 j 17:45	2°M03'32	
	1299 Oct 13 j 17:11	15° <b>Ω</b>			1306 Mar 25 j 16:10	30° <b>₹</b> Ω	
retrograde	1299 Nov 19 j 20:02	16° <b>Ω</b> 15′02		opposition	1306 Apr 11 j 12:14	28° <b>≏</b> 45'41	2°44'36
	1299 Dec 27 j 10:29	15° <b>ŖΩ</b>		min. Earth dist.	1306 Apr 11 j 13:14	28° <b>≏</b> 45'29	8.88750 AU
opposition	1300 Jan 25 j 11:17	12° <b>Ω</b> 49′28	1°12'19	direct	1306 Jun 21 j 12:12	25° <b>≏</b> 22'54	
min. Earth dist.	1300 Jan 25 j 04:58	12° <b>Ω</b> 50'45	8.20860 AU		1306 Sep 09 j 05:11	0°M₊	
direct	1300 Apr 02 j 17:05	9° <b>Ω</b> 20'14		evening set	1306 Oct 03 j 17:45	2°M43'11	
	1300 Jun 27 j 15:23	15° <b>Ω</b>					
evening set	1300 Jul 17 j 22:49	17° <b>Ω</b> 26′11		conjunction	1306 Oct 20 j 13:31	4°M42'37	2°10'57
				minimum elong	1306 Oct 20 j 13:32	4°M42'37	2°10'57
conjunction	1300 Aug 04 j 20:53	19° <b>Ω</b> 41'48	1°12'30	max. Earth dist.	1306 Oct 20 j 11:07	4°M41'54	10.92867 AU

morning rise	1306 Nov 06 j 05:41	6°M41′00		morning rise	1313 Jan 11 j 16:14	14° <b>පි</b> 41'36	
retrograde	1307 Feb 13 j 14:01	13°M42'29		retrograde	1313 Apr 23 j 12:47	21° <b>る</b> 48'02	
opposition	1307 Apr 23 j 19:19	10° <b>M</b> 25'14	2°34'31	desc. node	1313 Jun 03 j 21:36	20° <b>る</b> 30'22	
min. Earth dist.	1307 Apr 23 j 22:06	10°M24'43	8.96793 AU	opposition	1313 Jul 03 j 10:35	18° <b>る</b> 28'31	-0°02'37
direct	1307 Jul 04 j 00:08	7°M03'36		min. Earth dist.	1313 Jul 03 j 16:26	18° <b>る</b> 27'26	8.98974 AU
evening set	1307 Oct 15 j 12:59	14°M17'26		direct	1313 Sep 11 j 18:09	15° <b>る</b> 09'51	
	1307 Oct 21 j 14:57	15°M		evening set	1313 Dec 20 j 19:33	22° <b>る</b> 11'16	
	120531 01:04.	1.601 1.510.6	2000110		10111	240-700100	001.514.6
conjunction	1307 Nov 01 j 06:24	16°M15'26	2°00'19	conjunction	1314 Jan 06 j 11:22	24°る09'28	
minimum elong	1307 Nov 01 j 06:26	16°M15'26	2°00'19	minimum elong	1314 Jan 06 j 11:21	24°る09'28	0°15'47
max. Earth dist.	1307 Nov 01 j 02:10	16°M14'11	10.99922 AU	behind sun begin	1314 Jan 06 j 09:38	24°る08'58	
morning rise	1307 Nov 17 j 20:55	18°M12'35		behind sun end	1314 Jan 06 j 13:04	24°る09'58	10.05611 411
retrograde	1308 Feb 25 j 07:32	25°M11'07	2010124	max. Earth dist.	1314 Jan 06 j 04:19		10.95611 AU
opposition min. Earth dist.	1308 May 04 j 23:29	21°M.54'11 21°M.53'32	2°18'24 9.02787 AU	morning rise	1314 Jan 23 j 04:48 1314 Feb 28 j 09:11	26°පි08'14 0°≈	
direct	1308 May 05 j 02:56 1308 Jul 15 j 06:33	18°M33'34	9.02787 AU	retrograde	1314 May 05 j 21:04	0 ≈ 3°≈20'50	
evening set	1308 Jul 13 j 00.33 1308 Oct 26 j 02:33	25°M42'00		opposition	1314 Jul 15 j 17:57	0°≈00'10	0°36'08
evening set	1308 Oct 20 j 02.33	23 11642 00		opposition	1314 Jul 15 j 18:49	0 200 10 30%る	-0 30 08
conjunction	1308 Nov 11 j 18:30	27°M39'02	1°45'01	min. Earth dist.	1314 Jul 15 j 23:46	30 KO 29° <b>る</b> 59'05	8.91747 AU
minimum elong	1308 Nov 11 j 18:33	27°M39'03	1°45'01	direct	1314 Sep 23 j 14:48	26°る41'17	0.71747 AC
max. Earth dist.	1308 Nov 11 j 13:45		11.04859 AU	uncet	1314 Nov 27 j 12:13	20° <b>≈</b>	
morning rise	1308 Nov 28 j 08:03	29°M35'25	11.04037 710	evening set	1315 Jan 01 j 10:23	3°≈45'48	
morning rise	1308 Dec 01 j 21:43	0° <b>√</b>		evening set	1515 Juli 01 j 10.25	3 70(13 10	
retrograde	1309 Mar 08 j 01:57	6° <b>∡</b> ³32'28		conjunction	1315 Jan 18 j 03:12	5° <b>≈</b> 45'18	-0°42'48
opposition	1309 May 17 j 01:32	3° <b>х</b> 15′33	1°57'04	minimum elong	1315 Jan 18 j 03:10		0°42'49
min. Earth dist.	1309 May 17 j 05:42	3° <b>х</b> 14'47	9.06583 AU	max. Earth dist.	1315 Jan 17 j 19:41		10.87489 AU
mm. Burur Gibt.	1309 Jul 17 j 22:36	30°RM₊	7.00003110	morning rise	1315 Feb 03 j 22:39	7°≈45'38	10.07 105 110
direct	1309 Jul 27 j 08:51	29°M55'46			1315 May 07 j 13:44	15° <b>≈</b>	
	1309 Aug 05 j 16:59	0° <b>⊼</b>		retrograde	1315 May 18 j 09:36	15° <b>≈</b> 05'45	
evening set	1309 Nov 06 j 12:08	7° <b>∡</b> °00'00		Z .	1315 May 29 j 06:24	15°R <b>≈</b>	
S	J			opposition	1315 Jul 28 j 05:24	11° <b>≈</b> 43'47	-1°08'46
conjunction	1309 Nov 23 j 03:11	8° <b>₹</b> 56'30	1°25'43	min. Earth dist.	1315 Jul 28 j 11:17	11° <b>≈</b> 42'41	8.82804 AU
minimum elong	1309 Nov 23 j 03:13	8° <b>∡</b> 756'30	1°25'44	direct	1315 Oct 05 j 13:10	8° <b>≈</b> 24'28	
max. Earth dist.	1309 Nov 22 j 21:36	8° <b>∡</b> ′54'51	11.07551 AU		1316 Jan 08 j 12:53	15° <b>≈</b>	
morning rise	1309 Dec 09 j 16:30	10° <b>∡</b> 52'34		evening set	1316 Jan 13 j 07:07	15° <b>≈</b> 33'37	
retrograde	1310 Mar 19 j 19:15	17° <b>∡</b> ¹49'37					
opposition	1310 May 29 j 02:50	14° <b>∡</b> ³32′27	1°31'22	conjunction	1316 Jan 30 j 01:28	17° <b>≈</b> 34'45	-1°08'31
min. Earth dist.	1310 May 29 j 08:22	14° <b>∡</b> ³31′26	9.08089 AU	minimum elong	1316 Jan 30 j 01:26	17° <b>≈</b> 34'44	1°08'31
direct	1310 Aug 08 j 06:07	11° <b>₹</b> 13'16		max. Earth dist.	1316 Jan 29 j 18:25	17° <b>≈</b> 32'37	10.77792 AU
evening set	1310 Nov 17 j 19:19	18° <b>≯</b> 14'35		morning rise	1316 Feb 15 j 23:12	19° <b>≈</b> 36'55	
				retrograde	1316 May 30 j 05:16	27° <b>≈</b> 05'45	
conjunction	1310 Dec 04 j 09:48	20° <b>∡</b> 10′56	1°03'11	opposition	1316 Aug 08 j 21:38	23° <b>≈</b> 42′23	-1°39'11
minimum elong	1310 Dec 04 j 09:50	20° <b>∡</b> 10'57	1°03'12	min. Earth dist.	1316 Aug 09 j 02:57		8.72471 AU
max. Earth dist.	1310 Dec 04 j 02:34		11.07933 AU	direct	1316 Oct 16 j 18:20	20° <b>≈</b> 22'27	
morning rise	1310 Dec 20 j 23:37	22° <b>₹</b> 07'08		evening set	1317 Jan 24 j 11:26	27° <b>≈</b> 37'37	
retrograde	1311 Mar 31 j 13:10	29° <b>₹</b> 05'45					
opposition	1311 Jun 10 j 04:11	25° <b>∡</b> °48′02	1°02'12	conjunction	1317 Feb 10 j 07:50	29° <b>≈</b> 40'42	
min. Earth dist.	1311 Jun 10 j 10:44	25° <b>₹</b> 46'50	9.07285 AU	minimum elong	1317 Feb 10 j 07:47	29°≈40'42	
direct	1311 Aug 20 j 02:50	22° <b>×</b> <sup>7</sup> 29'14		max. Earth dist.	1317 Feb 10 j 02:28		10.66883 AU
evening set	1311 Nov 29 j 01:48	29° <b>₹</b> 29'04			1317 Feb 12 j 22:44	0° <b>)</b> {	
	1311 Dec 03 j 12:35	0°ප		morning rise	1317 Feb 27 j 07:59	1° <b>)</b> (45'00	
. ,.	1211 D 15:16:10	10=205140	0020112	retrograde	1317 Jun 12 j 10:30	9° <b>)</b> €23'21	2005155
conjunction	1311 Dec 15 j 16:19	1°る25'40	0°38'12	opposition	1317 Aug 21 j 19:14	5° <b>¥</b> 58'35	
minimum elong	1311 Dec 15 j 16:20	1°る25'41	0°38'12	min. Earth dist.	1317 Aug 21 j 22:59	2°\(\frac{1}{37}\)'51	8.61160 AU
max. Earth dist.	1311 Dec 15 j 08:36	3° <b>る</b> 23'24	11.06017 AU	direct	1317 Oct 29 j 03:22		
morning rise retrograde	1312 Jan 01 j 07:04 1312 Apr 11 j 10:59	3°622'22 10° <b>る</b> 24'07		evening set	1318 Feb 06 j 00:34	10° <b>米</b> 00′15	
opposition	1312 Apr 11 j 10.39 1312 Jun 21 j 06:23	7° <b>る</b> 05'36	0°30'31	conjunction	1318 Feb 22 j 23:26	12° <b>)</b> €05'34	-1°51'13
min. Earth dist.	1312 Jun 21 j 12:53	7° <b>る</b> 03'30	9.04215 AU	minimum elong	1318 Feb 22 j 23:24	12° <b>X</b> 05'33	
direct	1312 Juli 21 j 12:33 1312 Aug 30 j 22:47	3° <b>ප්</b> 46'58	2.0 1213 AU	max. Earth dist.	1318 Feb 22 j 19:34		10.55230 AU
evening set	1312 Aug 30 j 22:47 1312 Dec 09 j 09:14	10° <b>පි</b> 46'48		morning rise	1318 Mar 12 j 02:27	14° <b>)</b> 12'14	10.55250 AU
January 301	1512 200 07 1 07.14	10 070 70		retrograde	1318 Jun 25 j 23:54	22°\(\)(00'32	
conjunction	1312 Dec 26 j 00:19	12° <b>る</b> 44'03	0°11'37	opposition	1318 Sep 03 j 23:03	18° <b>)</b> 34'23	-2°27'25
minimum elong		12°る44'03	0°11'36	min. Earth dist.	1318 Sep 04 j 01:13		8.49376 AU
	1312 Dec 26 1 00:20	12 (344 ())					
behind sun begin	1312 Dec 26 j 00:20 1312 Dec 25 j 19:17		0 11 30				0.19370710
behind sun begin behind sun end	1312 Dec 25 j 19:17	12°る42'34 12°る45'31	0 11 50	direct	1318 Nov 10 j 17:05	15° <b>)</b> 12'46 22° <b>)</b> 43'16	0.19370710
_	-	12° <b>ප්</b> 42'34 12° <b>ප්</b> 45'31	11.01865 AU			15° <b>¥</b> 12'46	0.19570710

conjunction	1319 Mar 08 j 01:17	24° <b>¥</b> 51′02	2005146	direct	1325 Jan 29 j 21:34	7° <b>Ⅱ</b> 14'06	
minimum elong	1319 Mar 08 j 01:16	24° <b>)</b> (51'02		evening set	1325 May 14 j 00:59	15° <b>Ⅱ</b> 26'52	
max. Earth dist.	1319 Mar 07 j 22:31		10.43386 AU	evening set	1323 Way 14 J 00.39	13 1120 32	
morning rise	1319 Mar 25 j 07:46	27° <b>\</b> 00'17	10.43360 AC	conjunction	1325 Jun 01 j 03:46	17° <b>Ⅱ</b> 47'58	-1°07'29
morning risc	1319 Apr 19 j 22:11	27 χου 17 0° <b>Υ</b>		minimum elong	1325 Jun 01 j 03:49	17° <b>Ⅱ</b> 47′59	
retrograde	1319 Jul 09 j 20:00	4°Υ58'23		max. Earth dist.	1325 Jun 01 j 11:06		10.00807 AU
opposition	1319 Sep 17 j 09:06	1° <b>Υ</b> 30'58	-2°42'08	morning rise	1325 Jun 19 j 07:45	20° <b>П</b> 09'28	10.00007 AC
min. Earth dist.	1319 Sep 17 j 09:00		8.37689 AU	retrograde	1325 Oct 02 j 22:16	28° <b>∏</b> 28'39	
min. Earth dist.	1319 Oct 07 j 06:46	30° <b>₹</b>	0.57007110	opposition	1325 Dec 08 j 18:20	24° <b>II</b> 59'27	-1°05'19
direct	1319 Nov 23 j 15:48	28°\08'20		min. Earth dist.	1325 Dec 08 j 12:45		8.01200 AU
ancet	1320 Jan 08 j 14:00	0°Υ		direct	1326 Feb 13 j 08:55	21° <b>II</b> 30'45	0.01200710
evening set	1320 Mar 03 j 08:50	5° <b>Υ</b> 47'30		evening set	1326 May 29 j 05:27	29° <b>I</b> I45'28	
e venning see	1320 Mar 03 j 00.30	3 1 1730		evening sec	1326 May 31 j 02:53	0°95	
conjunction	1320 Mar 20 j 14:19	7° <b>Y</b> 57'55	-2°14'13		1320 May 31 j 02.33	<b>0 0</b>	
minimum elong	1320 Mar 20 j 14:19	7° <b>Y</b> 57'55		conjunction	1326 Jun 16 j 10:02	2°906'50	-0°36'22
max. Earth dist.	1320 Mar 20 j 12:38		10.31948 AU	minimum elong	1326 Jun 16 j 10:04	2°506'51	0°36'23
morning rise	1320 Apr 07 j 00:42	10° <b>Υ</b> 09'53	10.51740710	max. Earth dist.	1326 Jun 16 j 17:07		10.02212 AU
retrograde	1320 Jul 22 j 23:37	18°Υ16'55		morning rise	1326 Jul 04 j 14:35	4°9528'11	10.02212110
opposition	1320 Sep 30 j 01:00	14° <b>Y</b> 48'28	-2°48'42	retrograde	1326 Oct 17 j 09:10	12°9542'13	
min. Earth dist.	1320 Sep 30 j 01:10	14° <b>Υ</b> 48'26	8.26711 AU	opposition	1326 Dec 22 j 23:19	9° <b>©</b> 13'56	-0°24'53
direct	1320 Dec 05 j 21:42	11° <b>Y</b> 24'42	0.20/11/10	min. Earth dist.	1326 Dec 22 j 18:04	9° <b>©</b> 15'02	8.03933 AU
evening set	1321 Mar 17 j 04:39	19° <b>Υ</b> 12'37		direct	1327 Feb 27 j 22:35	5°9344'46	0.03733710
evening set	1321 Wai 17 J 04.37	17   1237		evening set	1327 Jun 13 j 09:23	13°959'28	
conjunction	1321 Apr 03 j 14:25	21° <b>Y</b> 25'46	-2°15'37	evening set	1327 Juli 13 j 07.23	15 35 20	
minimum elong	1321 Apr 03 j 14:26	21°Y25'46		conjunction	1327 Jul 01 j 14:01	16° <b>©</b> 20'10	-0°03'15
max. Earth dist.	1321 Apr 03 j 14:45		10.21543 AU	minimum elong	1327 Jul 01 j 14:01	16°920'10	0°03'16
morning rise	1321 Apr 21 j 04:57	23°\dagger40'25	10.21545 710	behind sun begin	1327 Jul 01 j 06:42	16° <b>©</b> 17'49	0 03 10
morning rise	1321 Jun 19 j 19:09	0°8		behind sun end	1327 Jul 01 j 21:21	16°9522'31	
retrograde	1321 Aug 06 j 09:25	1° <b>8</b> 54'54		max. Earth dist.	1327 Jul 01 j 20:41		10.06320 AU
1011081440	1321 Sep 23 j 17:57	30°RY		morning rise	1327 Jul 19 j 17:24	18°9540'26	10.00320110
opposition	1321 Oct 13 j 22:29	28° <b>Υ</b> 25'39	-2°46'03	asc. node	1327 Aug 06 j 17:58	20°953'34	
min. Earth dist.	1321 Oct 13 j 21:16	28° <b>Y</b> 25'53	8.17065 AU	retrograde	1327 Oct 31 j 13:10	26°547'29	
direct	1321 Dec 19 j 11:25	25°Υ00'46	0.17005710	opposition	1328 Jan 06 j 01:36	23°S20'20	0°16'38
	1322 Mar 07 j 01:12	0°8		min. Earth dist.	1328 Jan 05 j 20:31	23° <b>©</b> 21'23	8.09328 AU
evening set	1322 Mar 31 j 10:17	2° <b>8</b> 56'53		direct	1328 Mar 13 j 12:45	19° <b>9</b> 51'01	0.07520710
evening set	1922 Wai 91 j 10.17	2 03033		evening set	1328 Jun 27 j 09:35	28°903'33	
conjunction	1322 Apr 18 j 00:48	5° <b>8</b> 12'41	-2°09'24	evening sec	1328 Jul 12 j 14:09	0° <b>Ω</b>	
minimum elong	1322 Apr 18 j 00:50	5° <b>8</b> 12'41	2°09'24		1320 341 12 1 1.09	o 00	
max. Earth dist.	1322 Apr 18 j 03:38		10.12779 AU	conjunction	1328 Jul 15 j 12:31	0°Ω22'40	0°29'50
morning rise	1322 May 05 j 19:34	7° <b>8</b> 29'51	10.12///10	minimum elong	1328 Jul 15 j 12:30	0° <b>Ω</b> 22'39	0°29'49
morning rise	1322 Jul 21 j 09:20	15° <b>8</b>		max. Earth dist.	1328 Jul 15 j 18:49	0° <b>Ω</b> 24'41	10.12966 AU
retrograde	1322 Aug 20 j 23:17	15° <b>8</b> 49'37		morning rise	1328 Aug 02 j 13:03	2°Ω40'58	10.12900110
retrograde	1322 Sep 20 j 16:12	15°R <b>∀</b>		retrograde	1328 Nov 13 j 09:32	10° <b>Ω</b> 39'43	
opposition	1322 Oct 28 j 00:24	12° <b>8</b> 19'52	-2°33'43	opposition	1329 Jan 18 j 23:45	7°Ω13'51	0°56'30
min. Earth dist.	1322 Oct 27 j 21:27		8.09320 AU	min. Earth dist.	1329 Jan 18 j 18:34	7° <b>Ω</b> 14'54	8.17119 AU
direct	1323 Jan 02 j 09:36	8° <b>8</b> 53'53	0.07520710	direct	1329 Mar 27 j 23:57	3°Ω44'39	0.17117110
ancet	1323 Mar 30 j 07:38	15° <b>8</b>		evening set	1329 Jul 12 j 03:33	11° <b>Ω</b> 53'02	
evening set	1323 Apr 15 j 00:58	16° <b>8</b> 57'11		evening sec	152, 041 12, 05.55	11 0000 02	
	r J 00.50	. 027.11		conjunction	1329 Jul 30 j 03:20	14° <b>Ω</b> 09'51	1°00'34
conjunction	1323 May 02 j 20:16	19° <b>8</b> 15'20	-1°55'29	minimum elong	1329 Jul 30 j 03:17	14°Ω09'50	1°00'34
minimum elong	1323 May 02 j 20:19	19° <b>8</b> 15'21		max. Earth dist.	1329 Jul 30 j 09:20		10.21783 AU
max. Earth dist.	1323 May 03 j 01:23	_	10.06184 AU	man Bartin diot.	1329 Aug 05 j 16:36	15° <b>Ω</b>	10.21703110
morning rise	1323 May 20 j 18:59	21° <b>8</b> 34'37	10.0010.110	morning rise	1329 Aug 16 j 23:40	16° <b>Ω</b> 25'32	
retrograde	1323 Sep 04 j 15:02	29° <b>8</b> 56'57		retrograde	1329 Nov 26 j 23:08	24°Ω15'11	
opposition	1323 Nov 11 j 05:14	26° <b>8</b> 27'02	-2°11'56	opposition	1330 Feb 01 j 16:40	20°Ω50'38	1°32'18
min. Earth dist.	1323 Nov 11 j 00:44		8.03938 AU	min. Earth dist.	1330 Feb 01 j 11:18	20° <b>Ω</b> 51'43	8.26847 AU
direct	1324 Jan 16 j 13:21	23° <b>8</b> 00'00	0.03730710	direct	1330 Apr 11 j 06:16	17° <b>Ω</b> 21'53	0.20047 110
direct	1324 Apr 19 j 20:09	0°II		evening set	1330 Jul 26 j 13:03	25° <b>Ω</b> 24'28	
evening set	1324 Apr 19 j 20:09	1° <b>Ⅱ</b> 08'58		o coming soc	1550 Jul 20 J 15.05	20 062720	
2	20 ј. 22. 44	0000		conjunction	1330 Aug 13 j 08:37	27° <b>Ω</b> 38'28	1°27'21
conjunction	1324 May 16 j 22:18	3° <b>Ⅱ</b> 28'57	-1°34'26	minimum elong	1330 Aug 13 j 08:34	27° <b>Ω</b> 38'27	
minimum elong	1324 May 16 j 22:22	3° <b>П</b> 28'59		max. Earth dist.	1330 Aug 13 j 08.34 1330 Aug 13 j 14:29		10.32240 AU
max. Earth dist.	1324 May 16 j 22.22 1324 May 17 j 05:02		1 34 27 10.02136 AU	morning rise	1330 Aug 30 j 23:52	27 <b>δ 2</b> 40 19 29° <b>Ω</b> 51'08	10.52240 AU
max. Earth dist.	1324 May 17 J 05:02 1324 Jun 04 J 00:13	5° <b>П</b> 49'44	10.02130 AU	morning rise	1330 Aug 30 j 23:32 1330 Sep 01 j 04:39	0° m)	
-	-	3°Щ49'44 14°Щ11'48		retrogrado			
retrograde	1324 Sep 18 j 07:31		1941150	retrograde	1330 Dec 10 j 05:22	7° Mp 31'25	2002111
opposition	1324 Nov 24 j 11:48	10° <b>Π</b> 42'04		opposition	1331 Feb 15 j 03:59	4°M)08'14	2°02'11
min. Earth dist.	1324 Nov 24 j 06:17	10 Д43 13	8.01202 AU	min. Earth dist.	1331 Feb 14 j 23:06	4° <b>m</b> 09'13	8.37925 AU

direct evening set	1331 Apr 25 j 06:41 1331 Aug 09 j 12:33	0° Mp 40'09 8° Mp 35'41		evening set	1337 Aug 16 j 16:04 1337 Oct 21 j 13:27	15°M 21°M04'45	
conjunction	1331 Aug 27 j 03:12	10° <b>m</b> ) 46'37	1°48'56	conjunction	1337 Nov 07 j 05:58	23°M02'06	1°52'11
minimum elong	1331 Aug 27 j 03:09	10° m 46'36	1°48'57	minimum elong	1337 Nov 07 j 06:00	23°M02'07	1°52'10
max. Earth dist.	1331 Aug 27 j 08:26		10.43724 AU	max. Earth dist.	1337 Nov 07 j 02:36		11.02863 AU
morning rise	1331 Sep 13 j 13:01	12° m 56'07		morning rise	1337 Nov 23 j 19:52	24°M58'44	
retrograde	1331 Dec 23 j 02:24	20° <b>m</b> 27'17			1338 Jan 13 j 09:06	0°⊀	
opposition	1332 Feb 28 j 09:22	17° Mp 05'25	2°24'58	retrograde	1338 Mar 03 j 08:57	1° <b>∡</b> ¹55'47	
min. Earth dist.	1332 Feb 28 j 05:40	17° <b>m</b> 06'09	8.49729 AU		1338 Apr 23 j 08:44	30°RM	
direct	1332 May 08 j 01:23	13° <b>m</b> 38'14		opposition	1338 May 12 j 06:13	28°M38'40	2°06'55
evening set	1332 Aug 22 j 01:15	21°Mp25'54		min. Earth dist.	1338 May 12 j 09:41	28°M38'01	9.05390 AU
				direct	1338 Jul 22 j 13:51	25°M18'19	
conjunction	1332 Sep 08 j 10:47	23° Tp 33'45	2°04'33		1338 Oct 11 j 05:32	0° <b>∡</b>	
minimum elong	1332 Sep 08 j 10:45	23° m 33'44	2°04'34	evening set	1338 Nov 01 j 23:59	2° <b>≯</b> 23'46	
max. Earth dist.	1332 Sep 08 j 14:37		10.55624 AU		100031 10:15.10	40 30000	102.422
morning rise	1332 Sep 25 j 15:27	25° m/40'09		conjunction	1338 Nov 18 j 15:12	4° ₹ 20'20	1°34'32
	1332 Nov 04 j 05:15	0° <b>ჲ</b> 3° <b>ჲ</b> 02'48		minimum elong	1338 Nov 18 j 15:15	4° 🗷 20'20	1°34'32 11.07161 AU
retrograde	1333 Jan 03 j 16:22 1333 Mar 08 j 12:55	30°RM)		max. Earth dist.	1338 Nov 18 j 10:29	6° × 16'23	11.0/101 AU
opposition	1333 Mar 12 j 08:44	30 หูแม่ 29°Mp42'10	2°40'02	morning rise retrograde	1338 Dec 05 j 04:40 1339 Mar 15 j 00:53	13°×1023	
min. Earth dist.	1333 Mar 12 j 06:40	29° m/42'34	8.61653 AU	opposition	1339 May 24 j 07:03	9° <b>x</b> <sup>7</sup> 55'31	1°43'00
direct	1333 May 21 j 12:19	26° Mg 16'00	6.01033 AC	min. Earth dist.	1339 May 24 j 10:56	9° <b>x</b> 55531	9.08543 AU
direct	1333 Jul 30 j 11:41	0° <u>م</u>		direct	1339 Aug 03 j 13:01	6° <b>₹</b> 36'05	7.00545710
evening set	1333 Sep 04 j 02:56	ა <b>_</b> 3° <b>ჲ</b> 55'26		evening set	1339 Nov 13 j 07:11	13° <b>∡</b> 37′50	
conjunction	1333 Sep 21 j 07:40	6° <b>Ω</b> 00'25	2°13'52	conjunction	1339 Nov 29 j 21:51	15° <b>∡</b> ³34′02	1°13'21
minimum elong	1333 Sep 21 j 07:39	6° <b>ჲ</b> 00'25	2°13'53	minimum elong	1339 Nov 29 j 21:53	15° <b>∡</b> ³34′02	1°13'21
max. Earth dist.	1333 Sep 21 j 09:19	6° <b>≏</b> 00'56	10.67350 AU	max. Earth dist.	1339 Nov 29 j 17:10	15° <b>∡</b> ³32'39	11.09204 AU
morning rise	1333 Oct 08 j 07:51	8° <b>≙</b> 04'01		morning rise	1339 Dec 16 j 11:20	17° <b>∡</b> ¹29'57	
retrograde	1334 Jan 15 j 23:00	15° <b>≏</b> 19'02		retrograde	1340 Mar 25 j 18:44	24° <b>∡</b> ¹26'55	
opposition	1334 Mar 25 j 02:24	11° <b>≏</b> 59'27	2°47'18	opposition	1340 Jun 04 j 07:23	21° <b>₹</b> 09'35	1°15'15
min. Earth dist.	1334 Mar 25 j 01:21	11° <b>Ω</b> 59'39	8.73110 AU	min. Earth dist.	1340 Jun 04 j 11:21	21° <b>尽</b> 08'51	9.09391 AU
direct	1334 Jun 03 j 16:05	8° <b>≏</b> 34'27		direct	1340 Aug 14 j 09:44	17° <b>∡</b> 50'51	
evening set	1334 Sep 16 j 18:18	16° <b>≏</b> 05'43		evening set	1340 Nov 23 j 13:08	24° <b>≯</b> 50′20	
conjunction	1334 Oct 03 j 18:50	18° <b>ഫ</b> 08'08	2°16'56	conjunction	1340 Dec 10 j 03:39	26° <b>∡</b> ¹46'34	0°49'22
minimum elong	1334 Oct 03 j 18:50	18° <b>ഫ</b> 08'08	2°16'56	minimum elong	1340 Dec 10 j 03:40	26° <b>х</b> 46'35	0°49'22
max. Earth dist.	1334 Oct 03 j 19:01		10.78359 AU	max. Earth dist.	1340 Dec 09 j 22:26		11.08916 AU
morning rise	1334 Oct 20 j 15:09	20° <b>ჲ</b> 09'18		morning rise	1340 Dec 26 j 17:43	28° <b>₹</b> '42'45	
retrograde	1335 Jan 27 j 23:44	27° <b>£</b> 17'49			1341 Jan 07 j 03:49	ರ°0	
opposition	1335 Apr 06 j 14:55	23° <b>≏</b> 59'07	2°47'02	retrograde	1341 Apr 06 j 15:39	5° <b>ರ</b> 41'58	
min. Earth dist.	1335 Apr 06 j 14:27	23° <b>ჲ</b> 59'13	8.83595 AU	opposition	1341 Jun 16 j 08:10	2° <b>පි</b> 24'11	0°44'37
direct	1335 Jun 16 j 14:06	20° <b>≏</b> 35'21		min. Earth dist.	1341 Jun 16 j 13:05	2° <b>る</b> 23'17	9.07912 AU
evening set	1335 Sep 29 j 00:14	27° <b>ჲ</b> 58'51			1341 Jul 22 j 23:47	30°R. <b>✓</b>	
				direct	1341 Aug 26 j 03:38	29° <b>∡</b> 05'56	
conjunction	1335 Oct 15 j 21:25	29° <b>Ω</b> 59'08	2°14'00		1341 Sep 28 j 14:57	0° <b>ろ</b>	
minimum elong	1335 Oct 15 j 21:26	29° <b>£</b> 59'08	2°14'00	evening set	1341 Dec 04 j 19:29	6° <b>る</b> 04'37	
max. Earth dist.	1335 Oct 15 j 20:57		10.88194 AU		1241 D 21 : 10.05	00701115	000005
	1335 Oct 16 j 00:19	0°M		conjunction	1341 Dec 21 j 10:05	8° <b>る</b> 01'15	
morning rise	1335 Nov 01 j 14:38	1°M58'17		minimum elong max. Earth dist.	1341 Dec 21 j 10:06	8° <b>る</b> 01'15	0°23'25 11.06315 AU
retrograde opposition	1226 Eab 00: 22:20						11.00313 AU
min. Earth dist.	1336 Feb 08 j 22:39	9°M01'36	2030144		1341 Dec 21 j 03:34		
direct	1336 Apr 17 j 23:12	5°M43'37		morning rise	1342 Jan 07 j 01:19	9° <b>ප</b> 58'06	
	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31	5°M43'37 5°M43'34	2°39'44 8.92689 AU	morning rise retrograde	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12	9° <b>ප</b> 58'06 17° <b>ප</b> 01'07	0°12'05
	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19	5°M43'37 5°M43'34 2°M21'05		morning rise retrograde opposition	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47	9°858'06 17°801'07 13°842'38	0°12'05 9.04160 AU
evening set	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31	5°M43'37 5°M43'34		morning rise retrograde	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37	9° <b>ප</b> 58'06 17° <b>ප</b> 01'07	0°12'05 9.04160 AU
	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19	5°M43'37 5°M43'34 2°M21'05	8.92689 AU	morning rise retrograde opposition min. Earth dist.	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47	9°る58'06 17°る01'07 13°る42'38 13°る41'33	
evening set	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59	5°M43'37 5°M43'34 2°M21'05 9°M37'30	8.92689 AU	morning rise retrograde opposition min. Earth dist. direct	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36	9°ට 58'06 17°ට 01'07 13°ට 42'38 13°ට 41'33 10°ට 24'35	
evening set	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M36'07	8.92689 AU 2°05'34	morning rise retrograde opposition min. Earth dist. direct desc. node	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10	9°558'06 17°501'07 13°542'38 13°541'33 10°524'35 13°548'21	
evening set  conjunction  minimum elong	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M36'07	8.92689 AU 2°05'34 2°05'33	morning rise retrograde opposition min. Earth dist. direct desc. node	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10	9°558'06 17°501'07 13°542'38 13°541'33 10°524'35 13°548'21	9.04160 AU
evening set  conjunction  minimum elong  max. Earth dist.	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35 1336 Oct 26 j 15:16	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M36'07 11°M35'44	8.92689 AU 2°05'34 2°05'33	morning rise retrograde opposition min. Earth dist. direct desc. node evening set	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10 1342 Dec 16 j 03:37	9°る58'06 17°る01'07 13°る42'38 13°る41'33 10°る24'35 13°る48'21 17°る24'00 19°る21'23 19°る21'23	9.04160 AU -0°03'43
evening set  conjunction  minimum elong  max. Earth dist.	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35 1336 Oct 26 j 15:16 1336 Nov 12 j 07:38 1336 Nov 24 j 23:14 1337 Feb 19 j 16:36	5°M.43'37 5°M.43'34 2°M.21'05 9°M.37'30 11°M.36'07 11°M.36'07 11°M.35'44 13°M.33'46	8.92689 AU 2°05'34 2°05'33 10.96466 AU	morning rise retrograde opposition min. Earth dist. direct desc. node evening set conjunction	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10 1342 Dec 16 j 03:37 1343 Jan 01 j 18:46 1343 Jan 01 j 18:47 1343 Jan 01 j 11:52	9°る58'06 17°る01'07 13°る42'38 13°る41'33 10°る24'35 13°る48'21 17°る24'00 19°る21'23 19°る21'23 19°る19'22	9.04160 AU -0°03'43
evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35 1336 Oct 26 j 15:16 1336 Nov 12 j 07:38 1336 Nov 24 j 23:14 1337 Feb 19 j 16:36 1337 Apr 30 j 04:02	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M35'44 13°M33'46 15°M 20°M33'12 17°M15'46	8.92689 AU  2°05'34  2°05'33  10.96466 AU  2°26'06	morning rise retrograde opposition min. Earth dist. direct desc. node evening set  conjunction minimum elong behind sun begin behind sun end	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10 1342 Dec 16 j 03:37 1343 Jan 01 j 18:46 1343 Jan 01 j 18:47 1343 Jan 01 j 11:52 1343 Jan 02 j 01:41	9°る58'06 17°る01'07 13°る42'38 13°る41'33 10°る24'35 13°る48'21 17°る24'00 19°る21'23 19°る21'23 19°る19'22 19°る23'24	9.04160 AU -0°03'43 0°03'43
evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35 1336 Oct 26 j 15:16 1336 Nov 12 j 07:38 1336 Nov 24 j 23:14 1337 Feb 19 j 16:36 1337 Apr 30 j 04:02 1337 Apr 30 j 06:03	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M36'07 11°M35'44 13°M33'46 15°M 20°M33'12 17°M15'46 17°M15'23	8.92689 AU 2°05'34 2°05'33 10.96466 AU	morning rise retrograde opposition min. Earth dist. direct desc. node evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist.	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10 1342 Dec 16 j 03:37 1343 Jan 01 j 18:46 1343 Jan 01 j 11:52 1343 Jan 02 j 01:41 1343 Jan 01 j 11:49	9°る58'06 17°る01'07 13°る42'38 13°る41'33 10°る24'35 13°る48'21 17°る24'00 19°る21'23 19°る21'23 19°る19'22 19°る23'24 19°る19'21	9.04160 AU -0°03'43
evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1336 Apr 17 j 23:12 1336 Apr 17 j 23:31 1336 Jun 28 j 03:19 1336 Oct 09 j 21:59 1336 Oct 26 j 16:33 1336 Oct 26 j 16:35 1336 Oct 26 j 15:16 1336 Nov 12 j 07:38 1336 Nov 24 j 23:14 1337 Feb 19 j 16:36 1337 Apr 30 j 04:02	5°M43'37 5°M43'34 2°M21'05 9°M37'30 11°M36'07 11°M35'44 13°M33'46 15°M 20°M33'12 17°M15'46	8.92689 AU 2°05'34 2°05'33 10.96466 AU 2°26'06	morning rise retrograde opposition min. Earth dist. direct desc. node evening set  conjunction minimum elong behind sun begin behind sun end	1342 Jan 07 j 01:19 1342 Apr 18 j 13:12 1342 Jun 28 j 10:47 1342 Jun 28 j 16:37 1342 Sep 06 j 21:36 1342 Nov 12 j 11:10 1342 Dec 16 j 03:37 1343 Jan 01 j 18:46 1343 Jan 01 j 18:47 1343 Jan 01 j 11:52 1343 Jan 02 j 01:41	9°る58'06 17°る01'07 13°る42'38 13°る41'33 10°る24'35 13°る48'21 17°る24'00 19°る21'23 19°る21'23 19°る19'22 19°る23'24	9.04160 AU -0°03'43 0°03'43

opposition	1343 Jul 10 j 15:56	25° <b>පි</b> 08'09	-0°21'17	min. Earth dist.	1349 Sep 24 j 03:44	8° <b>Ƴ</b> 52'09	8.33241 AU
min. Earth dist.	1343 Jul 10 j 21:44	25° <b>る</b> 07'05	8.98250 AU	direct	1349 Nov 30 j 04:39	5° <b>Y</b> 29'22	
direct	1343 Sep 18 j 18:19	21° <b>る</b> 50'04		evening set	1350 Mar 11 j 03:21	13° <b>Y</b> 12'12	
evening set	1343 Dec 27 j 15:27	28° <b>る</b> 51'43					
	1344 Jan 06 j 07:08	0° <b>≈</b>		conjunction	1350 Mar 28 j 11:01	15° <b>Y</b> 23′50	-2°15'53
				minimum elong	1350 Mar 28 j 11:02	15° <b>Y</b> 23′50	2°15'54
conjunction	1344 Jan 13 j 07:41	0° <b>≈</b> 50'14	-0°30'52	max. Earth dist.	1350 Mar 28 j 09:48	15° <b>Ƴ</b> 23'27	10.27450 AU
minimum elong	1344 Jan 13 j 07:40	0° <b>≈</b> 50'13	0°30'52	morning rise	1350 Apr 14 j 23:16	17° <b>Y</b> 36'59	
max. Earth dist.	1344 Jan 13 j 01:27	0° <b>≈</b> 48′22	10.94553 AU	retrograde	1350 Jul 31 j 01:23	25° <b>Ƴ</b> 47'21	
morning rise	1344 Jan 30 j 02:00	2° <b>≈</b> 49′25		opposition	1350 Oct 07 j 20:23	22° <b>Y</b> 18'25	
retrograde	1344 May 12 j 03:18	10° <b>≈</b> 04'32		min. Earth dist.	1350 Oct 07 j 20:15	22° <b>Y</b> 18'27	8.22254 AU
opposition	1344 Jul 22 j 00:22	6° <b>≈</b> 43'53		direct	1350 Dec 13 j 13:16	18° <b>Y</b> 54'01	
min. Earth dist.	1344 Jul 22 j 05:33	6° <b>≈</b> 42'55	8.90345 AU	evening set	1351 Mar 25 j 03:39	26° <b>Ƴ</b> 45'36	
direct	1344 Sep 29 j 15:19	3° <b>≈</b> 25'31				••	
evening set	1345 Jan 07 j 08:36	10° <b>≈</b> 30'58		conjunction	1351 Apr 11 j 15:48	29° <b>Y</b> 00'00	
				minimum elong	1351 Apr 11 j 15:50	29° <b>Υ</b> 00'01	
conjunction	1345 Jan 24 j 02:08	12°≈30'55		max. Earth dist.	1351 Apr 11 j 15:56		10.17183 AU
minimum elong	1345 Jan 24 j 02:06	12°≈30'54	0°57'12		1351 Apr 19 j 10:15	0° <b>8</b>	
max. Earth dist.	1345 Jan 23 j 19:54		10.85715 AU	morning rise	1351 Apr 29 j 08:25	1° <b>8</b> 15'52	
morning rise	1345 Feb 09 j 22:26	14°≈31'45		retrograde	1351 Aug 14 j 13:06	9° <b>8</b> 32'51	2040145
. 1	1345 Feb 13 j 22:56	15°≈		opposition	1351 Oct 21 j 19:36	6° <b>8</b> 03'05	
retrograde	1345 May 24 j 19:52	21°≈54'55	1005146	min. Earth dist.	1351 Oct 21 j 18:26	. •	8.12871 AU
opposition	1345 Aug 03 j 13:20	18°≈32'56		direct	1351 Dec 27 j 06:37	2° <b>8</b> 37'21	
min. Earth dist.	1345 Aug 03 j 18:19	18°≈32'00 15°≈14'01	8.80660 AU	evening set	1352 Apr 07 j 13:34	10° <b>8</b> 36'59	
direct	1345 Oct 11 j 15:56 1346 Jan 19 j 08:27	13 ≈1401 22°≈24'48		agniumation	1352 Apr 25 j 06:26	12° <b>8</b> 54'01	2002100
evening set	1340 Jan 19 J 08.27	22 2446		conjunction minimum elong	1352 Apr 25 j 06:29	12° <b>8</b> 54'02	
conjunction	1346 Feb 05 j 03:34	24° <b>≈</b> 26'32	1921/25	max. Earth dist.	1352 Apr 25 j 08:03	_	10.08827 AU
minimum elong	1346 Feb 05 j 03:32	24 ≈26 32 24°≈26'31	1°21'34	max. Earm dist.	1352 Apr 23 J 08.03	12 <b>3</b> 34 32	10.08827 AU
max. Earth dist.	1346 Feb 03 j 03.32		1 21 34 10.75241 AU	morning rise	1352 May 11 j 12.42 1352 May 13 j 03:20	15° <b>8</b> 12'18	
morning rise	1346 Feb 22 j 02:19	24 ≈24 23 26°≈29'23	10.73241 AU	retrograde	1352 May 13 j 03:20 1352 Aug 28 j 03:19	23° <b>8</b> 33'32	
morning risc	1346 Mar 25 j 16:55	20 <b>≈</b> 2923		opposition	1352 Nov 03 j 22:43	20° <b>8</b> 03'18	_2°23'23
retrograde	1346 Jun 06 j 20:03	4° <b>)</b> €01'43		min. Earth dist.	1352 Nov 03 j 20:35	20° <b>8</b> 03'44	8.05651 AU
opposition	1346 Aug 16 j 07:40	0° <b>¥</b> 38'19	-1°54'13	direct	1353 Jan 09 j 07:07	16° <b>8</b> 36'18	0.03031710
min. Earth dist.	1346 Aug 16 j 12:51		8.69545 AU	evening set	1353 Apr 22 j 07:32	24° <b>8</b> 42'45	
mm. Earth dist.	1346 Aug 24 j 17:41	30°R≈	0.075 15 710	evening sec	1959 11pt 22 j 07.92	21 0 12 13	
direct	1346 Oct 23 j 20:53	27°≈18'38		conjunction	1353 May 10 j 05:00	27° <b>8</b> 02'00	-1°45'14
	1346 Dec 19 j 19:58	0° <b>∀</b>		minimum elong	1353 May 10 j 05:04	27° <b>8</b> 02'01	1°45'14
evening set	1347 Jan 31 j 16:32	4° <b>₩</b> 36'08		max. Earth dist.	1353 May 10 j 08:17	_	10.02893 AU
<i>8</i>	<b>,</b>			morning rise	1353 May 28 j 05:40	29° <b>8</b> 22'13	
conjunction	1347 Feb 17 j 13:51	6° <b>)</b> 39′58	-1°42'50	Č	1353 Jun 02 j 04:40	0°II	
minimum elong	1347 Feb 17 j 13:48	6° <b>)</b> 39′58	1°42'49	retrograde	1353 Sep 11 j 19:25	7° <b>Ⅱ</b> 44'57	
max. Earth dist.	1347 Feb 17 j 07:13	6° <b>)</b> 37′56	10.63578 AU	opposition	1353 Nov 18 j 04:28	4° <b>Ⅱ</b> 14'38	-1°57'03
morning rise	1347 Mar 06 j 15:25	8° <b>)</b> 45′08		min. Earth dist.	1353 Nov 18 j 01:13	4° <b>Ⅱ</b> 15'18	8.01049 AU
retrograde	1347 Jun 20 j 03:10	16° <b>)</b> 27′21		direct	1354 Jan 23 j 13:20	0° <b>Ⅱ</b> 46'33	
opposition	1347 Aug 29 j 07:45	13° <b>)</b> €02'27	-2°18'12	evening set	1354 May 07 j 07:34	8° <b>∏</b> 58′05	
min. Earth dist.	1347 Aug 29 j 12:31	13° <b>)</b> €01'32	8.57532 AU				
direct	1347 Nov 05 j 08:18	9° <b>)</b> 41′46		conjunction	1354 May 25 j 08:58	11° <b>Ⅱ</b> 18'55	-1°20'53
evening set	1348 Feb 13 j 09:53	17° <b>)</b> €07'08		minimum elong	1354 May 25 j 09:02	11° <b>Ⅱ</b> 18'56	1°20'53
				max. Earth dist.	1354 May 25 j 14:06	11° <b>Ⅱ</b> 20′35	9.99758 AU
conjunction	1348 Mar 01 j 10:06	19° <b>)</b> 13′23		morning rise	1354 Jun 12 j 12:24	13° <b>Ⅱ</b> 40′22	
minimum elong	1348 Mar 01 j 10:04	19° <b>) 1</b> 3′22		retrograde	1354 Sep 26 j 10:53	22° <b>Ⅱ</b> 01'45	
max. Earth dist.	1348 Mar 01 j 05:04		10.51302 AU	opposition	1354 Dec 02 j 11:11	18° <b>Ⅱ</b> 31'44	
morning rise	1348 Mar 18 j 14:49	21° <b>米</b> 21'03		min. Earth dist.	1354 Dec 02 j 06:36		7.99355 AU
retrograde	1348 Jul 02 j 18:17	29° <b>∺</b> 13′21		direct	1355 Feb 07 j 00:08	15° <b>Ⅱ</b> 02'47	
opposition	1348 Sep 10 j 13:57	25° <b>)</b> 46′57		evening set	1355 May 22 j 11:25	23° <b>Ⅱ</b> 17'25	
min. Earth dist.	1348 Sep 10 j 17:20		8.45218 AU				
direct	1348 Nov 17 j 03:49	22° <b>)</b> 25'08		conjunction	1355 Jun 09 j 15:29	25° <b>Ⅱ</b> 38'58	
evening set	1349 Feb 25 j 13:22	29° <b>)</b> 59'04		minimum elong	1355 Jun 09 j 15:32	25° <b>Ⅱ</b> 38'59	
	1349 Feb 25 j 16:22	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	1355 Jun 09 j 22:18	25° <b>Ⅱ</b> 41'12	9.99608 AU
	1240.35	00000	2011/25	morning rise	1355 Jun 27 j 20:10	28° <b>Ⅱ</b> 00'45	
conjunction	1349 Mar 14 j 17:02	2° <b>Υ</b> 07'57			1355 Jul 13 j 18:43	0°95	
minimum elong	1349 Mar 14 j 17:01	2° <b>Υ</b> 07'57		retrograde	1355 Oct 10 j 23:23	6°918'07	004420
max. Earth dist.	1349 Mar 14 j 14:05	2° <b>Υ</b> 07'01	10.39038 AU	opposition	1355 Dec 16 j 17:07	2°548'47	
morning rise	1349 Apr 01 j 01:15	4°Υ18'19		min. Earth dist.	1355 Dec 16 j 11:18	2°549'59	8.00677 AU
retrograde	1349 Jul 16 j 18:31 1349 Sep 24 j 02:14	12° <b>Υ</b> 20'13 8° <b>Υ</b> 52'27	2046140	direct	1356 Jan 25 j 07:34	30° <b>₹Ⅱ</b> 29° <b>Ⅱ</b> 19'14	
opposition	1349 Sep 24 J 02:14	0 1322/	-2 40 40	direct	1356 Feb 21 j 13:22	∠э <b>ц</b> 19°14	

evening set	1356 Mar 19 j 16:56 1356 Jun 05 j 16:01	0° <b>©</b> 7° <b>©</b> 34'48		max. Earth dist. morning rise retrograde	1361 Sep 02 j 21:13 1361 Sep 19 j 23:46 1361 Dec 29 j 06:33	17° M 56'12 20° M 02'40 27° M 29'37	10.49787 AU
conjunction	1356 Jun 23 j 21:04	9° <b>©</b> 56'08	-0°18'59	opposition	1362 Mar 06 j 18:16	24° mp 08'33	2°33'51
minimum elong	1356 Jun 23 j 21:05	9° <b>©</b> 56'09	0°19'00	min. Earth dist.	1362 Mar 06 j 14:02	24° m 09'23	8.56008 AU
max. Earth dist.	1356 Jun 24 j 05:00	9° <b>9</b> 58'43	10.02454 AU	direct	1362 May 15 j 16:28	20° <b>m</b> 42'09	
morning rise	1356 Jul 12 j 01:17	12° <b>©</b> 17'14		evening set	1362 Aug 29 j 12:02	28° <b>m</b> 25'49	
retrograde	1356 Oct 24 j 06:54	20° <b>©</b> 28'25			1362 Sep 11 j 10:09	0∘ <b>⊽</b>	
opposition	1356 Dec 29 j 21:03	17° <b>©</b> 00'06	-0°02'56				
min. Earth dist.	1356 Dec 29 j 14:34	17° <b>©</b> 01'26	8.04938 AU	conjunction	1362 Sep 15 j 19:08	0° <b>ჲ</b> 32'11	2°10'12
asc. node	1357 Jan 25 j 12:48	14°956'42		minimum elong	1362 Sep 15 j 19:06	0° <b>Ω</b> 32'11	2°10'12
direct	1357 Mar 07 j 02:56	13°930'17		max. Earth dist.	1362 Sep 15 j 23:08		10.62005 AU
evening set	1357 Jun 20 j 18:14	21° <b>©</b> 44'32		morning rise	1362 Oct 02 j 21:21	2° <b>Ω</b> 37'07	
conjunction	1357 Jul 08 j 22:27	24° <b>©</b> 04'42	0°14'26	retrograde opposition	1363 Jan 10 j 18:07 1363 Mar 19 j 15:08	9° <b>£</b> 55'55 6° <b>£</b> 36'09	2°44'43
minimum elong	1357 Jul 08 j 22:26	24°504'42	0°14'25	min. Earth dist.	1363 Mar 19 j 12:10	6° <b>£</b> 36'43	8.68074 AU
behind sun begin	1357 Jul 08 j 19:22	24°903'43	0 1423	direct	1363 May 28 j 23:24	3° <b>⊆</b> 11'00	0.00074710
behind sun end	1357 Jul 09 j 01:30	24°905'41		evening set	1363 Sep 11 j 08:48	10° <b>≏</b> 46'20	
max. Earth dist.	1357 Jul 09 j 06:51		10.08111 AU	<i>8</i>	j		
morning rise	1357 Jul 27 j 00:30	26°524'12		conjunction	1363 Sep 28 j 11:23	12° <b>≏</b> 49'57	2°16'08
	1357 Aug 26 j 05:26	$0^{\circ}\Omega$		minimum elong	1363 Sep 28 j 11:22	12° <b>≏</b> 49'57	2°16'08
retrograde	1357 Nov 07 j 08:12	4° <b>Ω</b> 27'33		max. Earth dist.	1363 Sep 28 j 14:02	12° <b>≏</b> 50'45	10.73716 AU
opposition	1358 Jan 12 j 21:23	1° <b>Q</b> 00'31	0°38'05	morning rise	1363 Oct 15 j 09:17	14° <b>≏</b> 52'13	
min. Earth dist.	1358 Jan 12 j 15:00	1° <b>Ω</b> 01'50	8.11864 AU	retrograde	1364 Jan 22 j 22:30	22° <b>ჲ</b> 03'52	
	1358 Jan 25 j 08:40	30°ષ્		opposition	1364 Mar 31 j 06:42	18° <b>≏</b> 45'12	
direct	1358 Mar 21 j 14:16	27° <b>©</b> 30'47		min. Earth dist.	1364 Mar 31 j 05:40	18° <b>≏</b> 45'24	8.79347 AU
	1358 May 14 j 17:39	0° <b>N</b>		direct	1364 Jun 09 j 23:57	15° <b>Ω</b> 21'18	
evening set	1358 Jul 05 j 15:40	5° <b>Ω</b> 41'44		evening set	1364 Sep 22 j 19:43	22° <b>≏</b> 48'32	
conjunction	1358 Jul 23 j 17:18	7° <b>Ω</b> 59'54	0°46'28	conjunction	1364 Oct 09 j 18:22	24° <b>≏</b> 49'46	2°15'55
minimum elong	1358 Jul 23 j 17:16	7° <b>Ω</b> 59'53	0°46'27	minimum elong	1364 Oct 09 j 18:22	24° <b>≏</b> 49'46	2°15'55
max. Earth dist.	1358 Jul 24 j 01:15	8° <b>Ω</b> 02'26	10.16213 AU	max. Earth dist.	1364 Oct 09 j 18:32	24° <b>≏</b> 49'49	10.84371 AU
morning rise	1358 Aug 10 j 15:45	10° <b>Ω</b> 17'02		morning rise	1364 Oct 26 j 12:56	26° <b>≏</b> 49'49	
	1358 Sep 21 j 03:52	15° <b>Ω</b>			1364 Nov 24 j 06:32	0° <b>M</b>	
retrograde	1358 Nov 21 j 02:16	18° <b>Ω</b> 11'28		retrograde	1365 Feb 02 j 21:59	3°M55'31	
•,•	1359 Jan 23 j 19:41	15°R <b>Ω</b>	101 (104	opposition	1365 Apr 12 j 17:18	0°M37'41	2°43'43
opposition	1359 Jan 26 j 17:00	14° <b>Ω</b> 45'55 14° <b>Ω</b> 47'04	1°16'04	min. Earth dist.	1365 Apr 12 j 18:05	0°M37'32	8.89290 AU
min. Earth dist.	1359 Jan 26 j 11:23	14° <b>3</b> 747'04 11° <b>Ω</b> 16'36	8.21018 AU	direct	1365 Apr 21 j 02:20	30°R <b>≏</b> 27° <b>≏</b> 15′00	
direct	1359 Apr 04 j 22:47 1359 Jun 11 j 21:30	11° <b>λ</b> (16'36'		direct	1365 Jun 22 j 17:34 1365 Aug 21 j 19:14	2/° <b>32</b> 1500	
evening set	1359 Jul 20 j 05:43	19° <b>Ω</b> 22'30		evening set	1365 Oct 04 j 21:47	4°MJ34'47	
<b>3</b>				<i>3</i>	,		
conjunction	1359 Aug 07 j 03:23		1°15'18	conjunction	1365 Oct 21 j 17:23	6° <b>M</b> 34′07	2°09'56
minimum elong	1359 Aug 07 j 03:20	21°Ω38'00	1°15'18	minimum elong	1365 Oct 21 j 17:24	6° <b>™</b> 34'07	2°09'56
max. Earth dist.	1359 Aug 07 j 10:07		10.26259 AU	max. Earth dist.	1365 Oct 21 j 15:13		10.93461 AU
morning rise	1359 Aug 24 j 21:12	23° <b>Ω</b> 52'16		morning rise	1365 Nov 07 j 09:31	8°M32'25	
retrograde	1359 Oct 22 j 19:11 1359 Dec 04 j 11:40	0° Mp 1° Mp 37′22		retrograde	1366 Jan 20 j 00:13 1366 Feb 14 j 17:13	15°M 15°M33'36	
renograde	1360 Jan 17 j 00:24	1 11√3 / 22 30°RΩ		retrograde	1366 Mar 12 j 21:08	15 11€33 30 15°RM	
opposition	1360 Feb 09 j 07:22	28° <b>Ω</b> 13'22	1°48'56	opposition	1366 Apr 25 j 00:01	12°M16'21	2°32'53
min. Earth dist.	1360 Feb 09 j 02:19	28° <b>Ω</b> 14'23	8.31847 AU	min. Earth dist.	1366 Apr 25 j 01:50	12°M16'01	8.97424 AU
direct	1360 Apr 18 j 03:05	24°Ω44'48	0.51017110	direct	1366 Jul 05 j 05:24	8°M54'50	0.57.121.110
	1360 Jul 10 j 04:28	0° m)			1366 Oct 06 j 17:11	15° <b>™</b>	
evening set	1360 Aug 02 j 10:17	2° Mp 44'10		evening set	1366 Oct 16 j 16:30	16°M08'07	
conjunction	1360 Aug 20: 02:11	10 m 56120	1°39'27	conjunction	1366 Nov. 02 : 00-55	18° <b>M</b> .06'01	1°58'44
conjunction	1360 Aug 20 j 03:11	4° Mp 56'39	1°39'27 1°39'27	conjunction	1366 Nov 02 j 09:55	18°M06'01	1°58'44 1°58'43
minimum elong max. Earth dist.	1360 Aug 20 j 03:08 1360 Aug 20 j 08:46	4° Mp 56'38 4° mp 58'24	1°39'27 10.37660 AU	minimum elong max. Earth dist.	1366 Nov 02 j 09:57 1366 Nov 02 j 06:46		11.00581 AU
morning rise	1360 Sep 06 j 15:48	7°My07'46	10.5 / 000 AU	morning rise	1366 Nov 19 j 00:18	20°M03'04	11.00301 AU
retrograde	1360 Dec 16 j 12:00	14° Mp 43'35		retrograde	1367 Feb 26 j 12:20	27°M01'19	
opposition	1361 Feb 21 j 15:51	11° mg 21'07	2°15'09	opposition	1367 May 07 j 03:52	23°M44'25	2°16'08
min. Earth dist.	1361 Feb 21 j 11:07	11° m/22'03	8.43725 AU	min. Earth dist.	1367 May 07 j 06:40	23°M43'54	9.03447 AU
direct	1361 May 02 j 02:06	7° m 53'32	-	direct	1367 Jul 17 j 11:43	20°M23'57	-
evening set	1361 Aug 16 j 04:32	15° m/45'22		evening set	1367 Oct 28 j 05:40	27°M31'50	
conjunction	1361 Sep 02 j 16:29	17° <b>m</b> 54'44	1°57'56	conjunction	1367 Nov 13 j 21:35	29°M28'46	1°42'56
minimum elong	1361 Sep 02 j 16:26	17° <b>m</b> 54'43	1°57'56	minimum elong	1367 Nov 13 j 21:37	29°M28'47	1°42'56

max. Earth dist.	1367 Nov 13 j 17:22 1367 Nov 18 j 07:36	29° <b>M</b> .27'32 0° <b>⊀</b>	11.05519 AU	conjunction minimum elong	1374 Jan 19 j 05:26 1374 Jan 19 j 05:24	7°≈33'10 7°≈33'09	-0°45'40 0°45'40
morning rise	1367 Nov 30 j 11:03	1° <b>≯</b> 25′05		max. Earth dist.	1374 Jan 18 j 21:44	7° <b>≈</b> 30'51	10.87595 AU
retrograde	1368 Mar 09 j 05:23	8° <b>∡</b> 21'52		morning rise	1374 Feb 05 j 01:00	9° <b>≈</b> 33'29	
opposition	1368 May 18 j 05:51	5° <b>₹</b> 05'02	1°54'15		1374 Mar 31 j 11:39	15° <b>≈</b>	
min. Earth dist.	1368 May 18 j 10:11	5° <b>∡</b> 04'14	9.07226 AU	retrograde	1374 May 19 j 11:45	16° <b>≈</b> 53'43	
direct	1368 Jul 28 j 11:13	1° <b>∡</b> 745′24			1374 Jul 09 j 02:24	15°R <b>≈</b>	
evening set	1368 Nov 07 j 14:51	8° <b>₰</b> ⁴49'07		opposition	1374 Jul 29 j 08:30	13° <b>≈</b> 31'43	-1°12'08
				min. Earth dist.	1374 Jul 29 j 14:34	13° <b>≈</b> 30'35	8.82850 AU
conjunction	1368 Nov 24 j 05:46	10° <b>∡</b> ⁴45'32	1°23'14	direct	1374 Oct 06 j 17:17	10° <b>≈</b> 12'24	
minimum elong	1368 Nov 24 j 05:49	10° <b>∡</b> 45′32	1°23'15		1374 Dec 24 j 15:56	15° <b>≈</b>	
max. Earth dist.	1368 Nov 23 j 23:44		11.08175 AU	evening set	1375 Jan 14 j 09:18	17° <b>≈</b> 21'30	
morning rise	1368 Dec 10 j 19:13	12° <b>₹</b> 41'34					
retrograde	1369 Mar 20 j 21:44	19° <b>∡</b> 38′25		conjunction	1375 Jan 31 j 03:48	19°≈22'40	
opposition	1369 May 30 j 06:52	16° <b>₹</b> 21′20	1°28'07	minimum elong	1375 Jan 31 j 03:45	19° <b>≈</b> 22'39	
min. Earth dist.	1369 May 30 j 12:44	16° <b>₹</b> 20'16	9.08683 AU	max. Earth dist.	1375 Jan 30 j 21:26		10.77775 AU
direct	1369 Aug 09 j 10:18	13° <b>∡</b> *02'17		morning rise	1375 Feb 17 j 01:30	21°≈24'50	
evening set	1369 Nov 18 j 21:47	20° <b>₹</b> 03'12		retrograde	1375 Jun 01 j 09:23	28°≈53'49	
	12(0 D 05: 10.15	210 750120	100012.4	opposition	1375 Aug 11 j 00:38	25°≈30'24	
conjunction	1369 Dec 05 j 12:15	21° 🖈 59'30	1°00'24	min. Earth dist.	1375 Aug 11 j 05:26	25°≈29'29	8.72400 AU
minimum elong	1369 Dec 05 j 12:17	21° 🗷 59'30	1°00'24	direct	1375 Oct 18 j 20:57	22°≈10'27	
max. Earth dist.	1369 Dec 05 j 04:59		11.08491 AU	evening set	1376 Jan 26 j 13:49	29°≈25'37	
morning rise	1369 Dec 22 j 02:11	23° <b>₹</b> 55'38			1376 Jan 31 j 07:49	0° <b>)</b> €	
. 1	1370 Feb 27 j 05:53	0°る		. ,.	1276 F. 1. 12 : 10.20	10 1/20144	1022155
retrograde	1370 Apr 01 j 16:45	0°る54'08		conjunction	1376 Feb 12 j 10:20	1° <b>H</b> 28'44	
	1370 May 05 j 20:28	30°₹ <b>₹</b>	0°58'39	minimum elong	1376 Feb 12 j 10:17	1° <b>)</b> €28'43	1°33°54 10.66751 AU
opposition min. Earth dist.	1370 Jun 11 j 07:50	27° <b>х</b> 36′30 27° <b>х</b> 35′22	9.07794 AU	max. Earth dist.	1376 Feb 12 j 05:10	3° <b>∺</b> 33'03	10.00/31 AU
direct	1370 Jun 11 j 13:58 1370 Aug 21 j 07:01	24° 🖈 17'51	9.07794 AU	morning rise retrograde	1376 Feb 29 j 10:32 1376 Jun 13 j 14:09	11° <del>X</del> 11'35	
direct	1370 Aug 21 j 07.01 1370 Nov 18 j 18:11	24 <b>x</b> ·1/31		opposition		7° <b>)</b> (46'44	2000120
evening set	1370 Nov 18 j 18.11 1370 Nov 30 j 04:01	0 3 1° <b>3</b> 17'19		min. Earth dist.	1376 Aug 22 j 22:11 1376 Aug 23 j 01:40	7° <b>H</b> 46'03	8.60979 AU
evening set	13/0 NOV 30 J 04.01	1 01/19		direct	1376 Oct 30 j 04:53	4° <del>X</del> 25'59	8.00979 AU
conjunction	1370 Dec 16 j 18:40	3°₹13'53	0°35'13	evening set	1377 Feb 07 j 03:14	11° <b>)</b> (48'28	
minimum elong	1370 Dec 16 j 18:41	3°る13'53	0°35'13	evening set	13//100 0/ 103.14	11 /(4020	
max. Earth dist.	1370 Dec 16 j 11:43		11.06475 AU	conjunction	1377 Feb 24 j 02:08	13° <b>¥</b> 53'48	-1°52'55
morning rise	1371 Jan 02 j 09:23	5° <b>ਰ</b> 10'33	11.00175110	minimum elong	1377 Feb 24 j 02:06	13° <b>)</b> 53'48	
retrograde	1371 Apr 13 j 14:11	12° <b>る</b> 12'15		max. Earth dist.	1377 Feb 23 j 21:28		10.54995 AU
opposition	1371 Jun 23 j 09:55	8° <b>ප</b> 53'47	0°26'49	morning rise	1377 Mar 13 j 05:21	16° <b>)</b> €00'31	
min. Earth dist.	1371 Jun 23 j 15:44	8° <b>ප</b> 52'43	9.04613 AU	retrograde	1377 Jun 27 j 02:44	23° <b>)</b> (49'01	
direct	1371 Sep 02 j 01:45	5° <b>る</b> 35'18		opposition	1377 Sep 05 j 02:00	20° <b>)</b> €22'46	-2°29'10
evening set	1371 Dec 11 j 11:23	12° <b>る</b> 34'50		min. Earth dist.	1377 Sep 05 j 04:41	20° <b>)</b> 22'15	8.49092 AU
C	,			direct	1377 Nov 11 j 20:05	17° <b>)</b> €01'04	
conjunction	1371 Dec 28 j 02:30	14° <b>る</b> 32'03	0°08'34	evening set	1378 Feb 20 j 02:18	24° <b>)</b> €31'44	
minimum elong	1371 Dec 28 j 02:30	14° <b>る</b> 32'03	0°08'33		•		
behind sun begin	1371 Dec 27 j 20:23	14° <b>る</b> 30'16		conjunction	1378 Mar 09 j 04:13	26° <b>)</b> 39'35	-2°06'52
behind sun end	1371 Dec 28 j 08:37	14° <b>る</b> 33'50		minimum elong	1378 Mar 09 j 04:12	26° <b>)</b> 39'35	2°06'51
max. Earth dist.	1371 Dec 27 j 19:38	14° <b>る</b> 30'02	11.02206 AU	max. Earth dist.	1378 Mar 09 j 00:34	26° <b>)</b> 38′26	10.43058 AU
morning rise	1372 Jan 13 j 18:27	16° <b>る</b> 29'35		morning rise	1378 Mar 26 j 10:57	28° <b>)</b> 48′55	
desc. node	1372 Apr 23 j 19:48	23° <b>る</b> 35'59			1378 Apr 05 j 05:36	$0^{\circ}\Upsilon$	
retrograde	1372 Apr 24 j 17:07	23° <b>る</b> 36'02		retrograde	1378 Jul 10 j 23:41	6° <b>Ƴ</b> 47'12	
opposition	1372 Jul 04 j 14:04	20° <b>る</b> 16'33		opposition	1378 Sep 18 j 12:07	3° <b>Ƴ</b> 19'43	
min. Earth dist.	1372 Jul 04 j 19:59	20°る15'27	8.99255 AU	min. Earth dist.	1378 Sep 18 j 13:55	3° <b>Y</b> 19′21	8.37320 AU
direct	1372 Sep 12 j 20:58	16° <b>る</b> 58'00			1378 Nov 17 j 07:33	30°₽ <b>升</b>	
evening set	1372 Dec 21 j 21:45	23° <b>る</b> 59'10		direct	1378 Nov 24 j 18:13	29° <b>∺</b> 56'56	
					1378 Dec 02 j 04:59	$0$ ° $\mathbf{\Upsilon}$	
conjunction	1373 Jan 07 j 13:31	25° <b>る</b> 57'21		evening set	1379 Mar 05 j 11:54	7° <b>Ƴ</b> 36′21	
minimum elong	1373 Jan 07 j 13:30	25° <b>る</b> 57'21					
max. Earth dist.	1373 Jan 07 j 05:42		10.95837 AU	conjunction	1379 Mar 22 j 17:38	9° <b>Y</b> 46′52	
morning rise	1373 Jan 24 j 07:08	27° <b>る</b> 56'07		minimum elong	1379 Mar 22 j 17:37	9° <b>Y</b> 46'52	
	1373 Feb 11 j 15:25	0° <b>≈</b>		max. Earth dist.	1379 Mar 22 j 15:48		10.31546 AU
retrograde	1373 May 06 j 23:22	5°≈08'45		morning rise	1379 Apr 09 j 04:14	11°Υ58'56	
opposition	1373 Jul 16 j 21:11	1°≈48'06		retrograde	1379 Jul 25 j 02:58	20° <b>Υ</b> 06'10	2040140
min. Earth dist.	1373 Jul 17 j 03:41		8.91912 AU	opposition	1379 Oct 02 j 04:06	16° <b>Y</b> 37'37	
1' 4	1373 Aug 11 j 09:59	30°Rる		min. Earth dist.	1379 Oct 02 j 04:39	16° <b>Υ</b> 37'30	8.26279 AU
direct	1373 Sep 24 j 16:30	28° <b>る</b> 29'16		direct	1379 Dec 08 j 00:54	13°Υ13'43	
avanina ast	1373 Nov 06 j 14:56	0°≈ 5°≈33'40		evening set	1380 Mar 18 j 08:04	21° <b>Υ</b> 01'56	
evening set	1374 Jan 02 j 12:34	J <b>≈</b> 33'40					

conjunction minimum elong max. Earth dist.	1380 Apr 04 j 18:13 1380 Apr 04 j 18:14 1380 Apr 04 j 18:58	23°Y15'13 23°Y15'13 23°Y15'27		opposition min. Earth dist. direct	1385 Dec 24 j 03:14 1385 Dec 23 j 22:11 1386 Mar 01 j 04:11	11°505'55 11°506'58 7°536'43	-0°20'57 8.04059 AU
morning rise	1380 Apr 22 j 08:56 1380 May 31 j 10:28	25° <b>Y</b> 29'59 0° <b>엉</b>	10.21003 710	evening set	1386 Jun 14 j 14:35	15°951'28	
retrograde	1380 Aug 07 j 12:25	3° <b>8</b> 44'40		conjunction	1386 Jul 02 j 19:11	18° <b>©</b> 12'08	
opposition	1380 Oct 15 j 01:37	0° <b>8</b> 15'18		minimum elong	1386 Jul 02 j 19:11	18° <b>©</b> 12'07	0°00'01
min. Earth dist.	1380 Oct 15 j 00:13	_	8.16589 AU	behind sun begin	1386 Jul 02 j 15:05	18°9510'50	
t'	1380 Oct 18 j 05:17	30°RΥ		behind sun end	1386 Jul 02 j 23:18	18°5513'25	
direct	1380 Dec 20 j 15:31 1381 Feb 18 j 20:52	26° <b>Y</b> 50'18 0° <b>と</b>		asc. node max. Earth dist.	1386 Jul 02 j 19:20 1386 Jul 03 j 01:34	18°512'10	10.06517 AU
evening set	1381 Apr 01 j 14:10	4° <b>8</b> 46'47		morning rise	1386 Jul 20 j 22:31	20°932'19	10.00317 AU
evening set	1301 Apr 01 j 14.10	4 04047		retrograde	1386 Nov 01 j 16:05	28° <b>©</b> 39'04	
conjunction	1381 Apr 19 j 05:02	7° <b>8</b> 02'44	-2°08'22	opposition	1387 Jan 07 j 05:22	25°5512'00	0°20'34
minimum elong	1381 Apr 19 j 05:05	7° <b>8</b> 02'45		min. Earth dist.	1387 Jan 07 j 00:03	25° <b>©</b> 13'05	8.09576 AU
max. Earth dist.	1381 Apr 19 j 08:16	7° <b>8</b> 03'47	10.12292 AU	direct	1387 Mar 15 j 17:02	21° <b>5</b> 642'41	
morning rise	1381 May 06 j 23:57	9° <b>8</b> 20'01		evening set	1387 Jun 29 j 14:43	29° <b>©</b> 55'13	
	1381 Jun 26 j 20:50	15° <b>8</b>			1387 Jun 30 j 05:52	$0^{\circ}\Omega$	
retrograde	1381 Aug 22 j 02:38	17° <b>8</b> 39'59					
	1381 Oct 18 j 21:30	15° <b>₹</b> 8		conjunction	1387 Jul 17 j 17:34	2° <b>Ω</b> 14'17	
opposition	1381 Oct 29 j 03:39	14° <b>8</b> 10'09		minimum elong	1387 Jul 17 j 17:33	2°Ω14'16	0°32'53
min. Earth dist.	1381 Oct 29 j 00:20	14° <b>8</b> 10'49	8.08834 AU	max. Earth dist.	1387 Jul 18 j 00:02		10.13247 AU
direct	1382 Jan 03 j 12:36	10° <b>8</b> 44'04		morning rise	1387 Aug 04 j 17:51	4° <b>Ω</b> 32'29	
ovening set	1382 Mar 15 j 09:45	15° <b>と</b> 18° <b>と</b> 47'45		retrograde	1387 Nov 15 j 13:50	12° <b>Ω</b> 30'57 9° <b>Ω</b> 05'10	1°00'10
evening set	1382 Apr 16 j 05:17	18 04/43		opposition min. Earth dist.	1388 Jan 21 j 03:21 1388 Jan 20 j 21:44	9° <b>Ω</b> 06'19	8.17422 AU
conjunction	1382 May 04 j 00:52	21° <b>8</b> 06'04	-1°53'46	direct	1388 Mar 29 j 03:37	5°Ω36'03	6.17422 AU
minimum elong	1382 May 04 j 00:55	_	1°53'46	evening set	1388 Jul 13 j 08:30	13° <b>Ω</b> 44'25	
max. Earth dist.	1382 May 04 j 06:01	_	10.05717 AU	evening sec	1388 Jul 23 j 08:14	15°Ω	
morning rise	1382 May 21 j 23:45	23° <b>8</b> 25'29			J		
	1382 Jul 22 j 10:31	$\Pi^{\circ}0$		conjunction	1388 Jul 31 j 08:06	16° <b>Ω</b> 01'09	1°03'21
retrograde	1382 Sep 05 j 20:09	1° <b>Ⅱ</b> 47'59		minimum elong	1388 Jul 31 j 08:04	16° <b>Ω</b> 01′08	1°03'21
	1382 Oct 21 j 19:02	30°₹ <b>႘</b>		max. Earth dist.	1388 Jul 31 j 14:41	16° <b>Ω</b> 03′15	10.22097 AU
opposition	1382 Nov 12 j 08:48	28° <b>8</b> 18'02		morning rise	1388 Aug 18 j 04:01	18° <b>Ω</b> 16'43	
min. Earth dist.	1382 Nov 12 j 04:12		8.03503 AU	retrograde	1388 Nov 28 j 03:30	26° <b>Ω</b> 06'09	
direct	1383 Jan 17 j 15:32	24° <b>8</b> 50'55		opposition	1389 Feb 02 j 20:24	22° <b>Ω</b> 41'43	1°35'30
. ,	1383 Apr 06 j 13:16	0°II		min. Earth dist.	1389 Feb 02 j 14:57	22° <b>Ω</b> 42'49	8.27172 AU
evening set	1383 May 01 j 03:30	3° <b>Ⅱ</b> 00′18		direct	1389 Apr 12 j 10:04 1389 Jul 27 j 17:40	19° <b>Ω</b> 13'03 27° <b>Ω</b> 15'36	
conjunction	1383 May 19 j 03:16	5° <b>Ⅱ</b> 20'26	-1°32'06	evening set	1389 Jul 2/ J 17.40	2/ 861330	
minimum elong	1383 May 19 j 03:20	5° <b>Ⅱ</b> 20′27		conjunction	1389 Aug 14 j 12:57	29° <b>Ω</b> 29'29	1°29'42
max. Earth dist.	1383 May 19 j 09:36		10.01761 AU	minimum elong	1389 Aug 14 j 12:54	29° <b>Ω</b> 29'28	1°29'42
morning rise	1383 Jun 06 j 05:26	7° <b>Ⅱ</b> 41′20		max. Earth dist.	1389 Aug 14 j 19:10		10.32565 AU
retrograde	1383 Sep 20 j 13:12	16° <b>Ⅱ</b> 03′28			1389 Aug 18 j 13:36	0° <b>m</b> )	
opposition	1383 Nov 26 j 15:36	12° <b>Ⅲ</b> 33'45	-1°38'36	morning rise	1389 Sep 01 j 03:47	1°M/42'02	
min. Earth dist.	1383 Nov 26 j 10:26	12° <b>Ⅱ</b> 34'49	8.00903 AU	retrograde	1389 Dec 11 j 08:47	9° <b>m</b> 22'11	
direct	1384 Feb 01 j 00:58	9°Ⅱ05'42		opposition	1390 Feb 16 j 07:47	5° <b>m</b> 59'07	2°04'46
evening set	1384 May 15 j 06:16	17° <b>Ⅱ</b> 18'52		min. Earth dist.	1390 Feb 16 j 03:24	6° TD 00'00	8.38257 AU
	12011 02:00.00	100 T 1010 2	100440	direct	1390 Apr 26 j 10:58	2° m/31'08	
conjunction	1384 Jun 02 j 09:08	19° <b>Ⅱ</b> 40'02 19° <b>Ⅱ</b> 40'03		evening set	1390 Aug 10 j 17:00	10° Mp 26'37	
minimum elong max. Earth dist.	1384 Jun 02 j 09:11 1384 Jun 02 j 15:47		1°0441 10.00613 AU	conjunction	1390 Aug 28 j 07:15	12° Mp 37'26	1°50'45
morning rise	1384 Jun 20 j 13:19	19 <b>Ⅱ</b> 42 13 22° <b>Ⅱ</b> 01'37	10.00013 AU	minimum elong	1390 Aug 28 j 07:12	12° My 37'25	1°50'45
morning rise	1384 Sep 14 j 20:07	0°99		max. Earth dist.	1390 Aug 28 j 12:02	-•	
retrograde	1384 Oct 04 j 03:00	0°520'39		morning rise	1390 Sep 14 j 16:46	14° <b>m</b> ) 46'49	10.11019110
	1384 Oct 23 j 08:51	30° <b>Ŗ</b> Ⅱ		retrograde	1390 Dec 24 j 06:33	22° m 17'52	
opposition	1384 Dec 09 j 22:15	26° <b>Ⅲ</b> 51'32	-1°01'36	opposition	1391 Mar 01 j 13:07	18° <b>m</b> 56'08	2°26'49
min. Earth dist.	1384 Dec 09 j 17:11	26° <b>Ⅲ</b> 52'35	8.01119 AU	min. Earth dist.	1391 Mar 01 j 10:04	18° <b>m</b> 56'44	8.50057 AU
direct	1385 Feb 14 j 14:00	23° <b>Ⅱ</b> 22'45		direct	1391 May 10 j 04:46	15° <b>m</b> 29'02	
	1385 May 17 j 10:22	$0$ $\circ$		evening set	1391 Aug 24 j 05:28	23°M 16'38	
evening set	1385 May 30 j 10:52	1° <b>5</b> 37'41					
	1005 X 15::	00	000015	conjunction	1391 Sep 10 j 14:36	25° m 24'23	2°05'45
conjunction	1385 Jun 17 j 15:26	3°959'03		minimum elong	1391 Sep 10 j 14:33	25° Mp 24'23	2°05'45
minimum elong	1385 Jun 17 j 15:27	3°959'04	0°33'17	max. Earth dist.	1391 Sep 10 j 17:34		10.55939 AU
max. Earth dist. morning rise	1385 Jun 17 j 21:53 1385 Jul 05 j 20:03	6°\$20'24	10.02244 AU	morning rise	1391 Sep 27 j 19:04 1391 Oct 19 j 06:44	27° Mp 30′42 0° <u>₽</u>	
retrograde	1385 Oct 18 j 12:15	14°934'08		retrograde	1391 Oct 19 J 06.44 1392 Jan 05 j 19:13	0 <u></u> 4° <b></b> 53'15	
-011081440	1500 500 10 j 12.15	5700		1011081440	-5/2 van 00 j 1/.13	. —33 13	

opposition	1392 Mar 13 j 12:34	1° <b>≏</b> 32'42	2941106	opposition	1398 May 25 j 10:38	11° <b>∡</b> ¹43'59	1020150
min. Earth dist.	1392 Mar 13 j 12:34 1392 Mar 13 j 10:27	1° <b>⊆</b> 32'42 1° <b>⊆</b> 33'07	8.61963 AU	min. Earth dist.	1398 May 25 j 10:38	11° <b>x</b> <sup>7</sup> 43'24	9.08646 AU
mm. Latti dist.	1392 Apr 03 j 03:48	30°RM)	0.01703 AC	direct	1398 Aug 04 j 17:05	8° <b>×</b> <sup>7</sup> 24'34	7.00040 AC
direct	1392 May 22 j 16:38	28° Mp 06'39		evening set	1398 Nov 14 j 09:27	15° <b>×</b> <sup>2</sup> 26'01	
direct	1392 Jul 10 j 07:04	0° <b>ರ</b>		evening set	1376 1407 14 1 07.27	13 × 2001	
evening set	1392 Sep 05 j 06:44	o <b>—</b> 5° <b>Ω</b> 45'58		conjunction	1398 Dec 01 j 00:10	17° <b>∡</b> ¹22'12	1°10'42
evening set	1372 Sep 03 J 00.44	3 = 43 36		minimum elong	1398 Dec 01 j 00:10	17° <b>×</b> 22'12	1°10'42 1°10'43
conjunction	1392 Sep 22 j 11:11	7° <b>£</b> 50'51	2°14'25	max. Earth dist.	1398 Nov 30 j 20:04		11.09294 AU
minimum elong	1392 Sep 22 j 11:10	7° <b>£</b> 50′50	2°14'25	morning rise	1398 Dec 17 j 13:39	19°×718'06	11.0,2,1110
max. Earth dist.	1392 Sep 22 j 12:42		10.67647 AU	retrograde	1399 Mar 27 j 22:41	26° <b>₹</b> 15'02	
morning rise	1392 Scp 22 j 12:42 1392 Oct 09 j 11:09	9° <b>£</b> 54'22	10.07047 AC	opposition	1399 Jun 06 j 10:59	20 × 13 02 22° × 57'38	1°11'52
•	1393 Jan 17 j 01:35	9 <b>⊆</b> 34 22 17° <b>⊆</b> 09'20		min. Earth dist.	1399 Jun 06 j 14:58	22° 🖈 57' 56' 55	9.09464 AU
retrograde opposition	-		2°47'34	direct	-	19° <b>₹</b> 38'55	9.09404 AU
	1393 Mar 26 j 06:15	13° <b>Ω</b> 49'48			1399 Aug 16 j 12:34		
min. Earth dist.	1393 Mar 26 j 04:31	13° <b>£</b> 50'08	8.73392 AU	evening set	1399 Nov 25 j 15:19	26° <b>∡</b> ³38′06	
direct	1393 Jun 04 j 21:30	10° <b>£</b> 24'55			1200 D 12:05 45	200 72440	0046120
evening set	1393 Sep 17 j 21:45	17° <b>£</b> 55'59		conjunction	1399 Dec 12 j 05:45	28° 🗷 34'19	0°46'29
				minimum elong	1399 Dec 12 j 05:46	28° <b>₹</b> 34'20	0°46'30
conjunction	1393 Oct 04 j 22:12	19° <b>≙</b> 58′20	2°16'49	max. Earth dist.	1399 Dec 12 j 00:11	28° <b>∡</b> 32'41	11.08983 AU
minimum elong	1393 Oct 04 j 22:11	19° <b>≙</b> 58′20	2°16'49		1399 Dec 24 j 10:25	0° <b>ろ</b>	
max. Earth dist.	1393 Oct 04 j 23:08		10.78628 AU	morning rise	1399 Dec 28 j 20:00	0° <b>る</b> 30'31	
morning rise	1393 Oct 21 j 18:16	21° <b>≏</b> 59'25		retrograde	1400 Apr 07 j 17:03	7° <b>る</b> 29'44	
retrograde	1394 Jan 29 j 04:49	29° <b>£</b> 07'52		opposition	1400 Jun 17 j 11:46	4° <b>る</b> 11'52	0°41'00
opposition	1394 Apr 07 j 18:44	25° <b>≏</b> 49'13	2°46'30	min. Earth dist.	1400 Jun 17 j 16:58	4° <b>る</b> 10'55	9.07970 AU
min. Earth dist.	1394 Apr 07 j 17:57	25° <b>≏</b> 49'22	8.83841 AU	direct	1400 Aug 27 j 06:09	0° <b>る</b> 53'36	
direct	1394 Jun 17 j 17:30	22° <b>£</b> 25'33		evening set	1400 Dec 05 j 21:27	7° <b>る</b> 52'04	
evening set	1394 Sep 30 j 03:27	29° <b>≏</b> 48'47					
	1394 Oct 01 j 17:43	$0^{\circ}$ M		conjunction	1400 Dec 22 j 12:06	9° <b>ප</b> 48'41	0°20'25
				minimum elong	1400 Dec 22 j 12:07	9° <b>ප</b> 48'41	0°20'24
conjunction	1394 Oct 17 j 00:32	1° <b>M</b> 49'01	2°13'16	max. Earth dist.	1400 Dec 22 j 05:42	9° <b>ප</b> 46'48	11.06369 AU
minimum elong	1394 Oct 17 j 00:33	1°M49'02	2°13'15	morning rise	1401 Jan 08 j 03:30	11° <b>る</b> 45'32	
max. Earth dist.	1394 Oct 17 j 00:34	1°M49'02	10.88422 AU	retrograde	1401 Apr 19 j 16:22	18° <b>පි</b> 48'36	
morning rise	1394 Nov 02 j 17:34	3°M48'08		opposition	1401 Jun 29 j 14:09	15° <b>る</b> 30'02	0°08'22
retrograde	1395 Feb 10 j 01:24	10°M51'20		min. Earth dist.	1401 Jun 29 j 19:35	15° <b>る</b> 29'02	9.04207 AU
opposition	1395 Apr 20 j 03:05	7°M33'23	2°38'27	direct	1401 Sep 08 j 01:49	12° <b>る</b> 11'58	
min. Earth dist.	1395 Apr 20 j 03:51	7°M33'15	8.92895 AU	desc. node	1401 Oct 02 j 11:57	12° <b>る</b> 41'25	
direct	1395 Jun 30 j 06:03	4°M10'54	0.92090110	evening set	1401 Dec 17 j 05:34	19° <b>る</b> 11'12	
evening set	1395 Oct 12 j 01:01	11°M27'03		evening sec	1101 Bec 17 j 05.51	17 011 12	
evening set	1575 Oct 12 j 01:01	11 11027 03		conjunction	1402 Jan 02 j 20:52	21° <b>る</b> 08'35	-0°06'44
conjunction	1395 Oct 28 j 19:22	13°M25'36	2004'14	minimum elong	1402 Jan 02 j 20:52	21°る08'35	
minimum elong	1395 Oct 28 j 19:24	13°M25'37	2°04'13	behind sun begin	1402 Jan 02 j 20:32	21° <b>る</b> 06'41	0 00 43
max. Earth dist.	1395 Oct 28 j 17:37		10.96655 AU	behind sun end	1402 Jan 02 j 14.21 1402 Jan 03 j 03:23	21°る0041	
max. Earth dist.	•		10.90033 AU		1402 Jan 03 j 03.23		11.01522 AU
	1395 Nov 11 j 02:50	15°M		max. Earth dist.	1402 Jan 02 j 14:38 1402 Jan 19 j 13:34		11.01522 AU
morning rise	1395 Nov 14 j 10:27	15°M23'14		morning rise	,	23° <b>る</b> 06'26	
retrograde	1396 Feb 21 j 19:16	22°M22'37	2024100		1402 Apr 14 j 08:47	0° <b>≈</b> 0° <b>≈</b> 14'54	
opposition	1396 May 01 j 07:56	19°M05'09	2°24'09	retrograde	1402 May 01 j 20:22		
min. Earth dist.	1396 May 01 j 10:13	19°M04'44	9.00216 AU		1402 May 19 j 11:37	30°Rる	000 4150
direct	1396 Jul 11 j 14:51	15°M43'48		opposition	1402 Jul 11 j 19:05	26°る55'22	
evening set	1396 Oct 22 j 16:08	22°M53'51		min. Earth dist.	1402 Jul 11 j 23:53	26°る54'28	8.98291 AU
				direct	1402 Sep 19 j 20:44	23° <b>る</b> 37'18	
conjunction	1396 Nov 08 j 08:34	24°M51'10	1°50'20		1402 Dec 23 j 03:12	0° <b>≈</b>	
minimum elong	1396 Nov 08 j 08:37	24°M51'11	1°50'20	evening set	1402 Dec 28 j 17:27	0° <b>≈</b> 38'49	
max. Earth dist.	1396 Nov 08 j 05:06		11.03024 AU				
morning rise	1396 Nov 24 j 22:34	26°M47'47		conjunction	1403 Jan 14 j 09:44	2° <b>≈</b> 37'19	
	1396 Dec 24 j 14:53	0° <b>∡</b> 7		minimum elong	1403 Jan 14 j 09:42	2° <b>≈</b> 37'18	
retrograde	1397 Mar 04 j 11:41	3° <b>∡</b> ¹44'47		max. Earth dist.	1403 Jan 14 j 04:02	2° <b>≈</b> 35'37	10.94599 AU
opposition	1397 May 13 j 09:57	0° <b>∡</b> ¹27'35	2°04'22	morning rise	1403 Jan 31 j 04:03	4° <b>≈</b> 36'29	
min. Earth dist.	1397 May 13 j 12:49	0° <b>≯</b> 27'04	9.05531 AU	retrograde	1403 May 14 j 06:34	11° <b>≈</b> 51'44	
	1397 May 19 j 15:39	30°RM		opposition	1403 Jul 24 j 03:33	8° <b>≈</b> 31'02	-0°57'49
direct	1397 Jul 23 j 17:40	27°M07'16		min. Earth dist.	1403 Jul 24 j 08:16	8° <b>≈</b> 30'09	8.90414 AU
	1397 Sep 23 j 10:42	0° <b>∡</b> ″		direct	1403 Oct 01 j 17:51	5° <b>≈</b> 12'42	
evening set	1397 Nov 03 j 02:23	4° <b>≯</b> 12′23		evening set	1404 Jan 09 j 10:41	12° <b>≈</b> 18′02	
conjunction	1397 Nov 19 j 17:43	6° <b>₰</b> 08'56	1°32'15	conjunction	1404 Jan 26 j 04:09	14° <b>≈</b> 17'58	-0°59'55
minimum elong	1397 Nov 19 j 17:45	6° <b>₰</b> 08'57	1°32'15	minimum elong	1404 Jan 26 j 04:07	14° <b>≈</b> 17'57	0°59'55
max. Earth dist.							
	1397 Nov 19 j 13:52		11.07289 AU	max. Earth dist.	1404 Jan 25 j 21:41	14° <b>≈</b> 16′01	10.85815 AU
morning rise	-		11.07289 AU	max. Earth dist.	1404 Jan 25 j 21:41 1404 Jan 31 j 23:59	14°≈16′01 15°≈	10.85815 AU
morning rise retrograde	1397 Nov 19 j 13:52	6° <b>∡</b> 07'48	11.07289 AU	max. Earth dist.			10.85815 AU

retrograde	1404 May 25 j 23:19	23° <b>≈</b> 42′03		retrograde	1410 Aug 15 j 14:39	11° <b>8</b> 19'42	
opposition	1404 Aug 04 j 16:26	20° <b>≈</b> 20′04		opposition	1410 Oct 22 j 21:32	7° <b>8</b> 50'02	
min. Earth dist.	1404 Aug 04 j 21:36	20°≈19'05	8.80805 AU	min. Earth dist.	1410 Oct 22 j 21:09	_	8.13041 AU
direct	1404 Oct 12 j 17:36	17° <b>≈</b> 01'10		direct	1410 Dec 28 j 08:43	4° <b>8</b> 24'19	
evening set	1405 Jan 20 j 10:38	24°≈11'50		evening set	1411 Apr 09 j 16:04	12° <b>8</b> 23'58	
conjunction	1405 Feb 06 j 05:45	26° <b>≈</b> 13'32	-1°23'57	conjunction	1411 Apr 27 j 09:15	14° <b>8</b> 41'03	
minimum elong	1405 Feb 06 j 05:43	26° <b>≈</b> 13'31	1°23'57	minimum elong	1411 Apr 27 j 09:18	14° <b>8</b> 41'04	2°01'40
max. Earth dist.	1405 Feb 05 j 22:51		10.75426 AU	max. Earth dist.	1411 Apr 27 j 10:34		10.08992 AU
morning rise	1405 Feb 23 j 04:38	28°≈16′22			1411 Apr 29 j 19:37	15° <b>8</b>	
	1405 Mar 10 j 01:58	0° <b>∀</b>		morning rise	1411 May 15 j 06:23	16° <b>8</b> 59'23	
retrograde	1405 Jun 07 j 21:32	5° <b>)</b> (48'42		retrograde	1411 Aug 30 j 05:34	25° <b>8</b> 20'23	
opposition	1405 Aug 17 j 10:24	2° <b>₩</b> 25'18		opposition	1411 Nov 06 j 00:28	21° <b>8</b> 50'15	
min. Earth dist.	1405 Aug 17 j 15:45		8.69770 AU	min. Earth dist.	1411 Nov 05 j 22:42	21° <b>8</b> 50'37	8.05800 AU
t' .	1405 Sep 21 j 23:40	30°R≈		direct	1412 Jan 11 j 08:55	18° <b>8</b> 23'16	
direct	1405 Oct 24 j 23:39	29°≈05'38 0° <b>)</b> €		evening set	1412 Apr 23 j 10:12	26° <b>8</b> 29'45	
	1405 Nov 26 j 07:51	6° <b>∺</b> 23'03			1412 M 11 : 00-01	200 40102	1042117
evening set	1406 Feb 01 j 18:41	0°π25'05		conjunction minimum elong	1412 May 11 j 08:01 1412 May 11 j 08:04	28° <b>8</b> 49'03 28° <b>8</b> 49'04	
conjunction	1406 Feb 18 j 16:08	8° <b>¥</b> 26'52	1011115	max. Earth dist.	1412 May 11 j 08.04 1412 May 11 j 11:30	_	10.03035 AU
minimum elong	1406 Feb 18 j 16:06	8° <b>\</b> 26'51		max. Earth dist.	1412 May 20 j 09:43	0°II	10.03033 AC
max. Earth dist.	1406 Feb 18 j 10:18		10.63819 AU	morning rise	1412 May 29 j 08:48	1° <b>Ⅱ</b> 09'19	
morning rise	1406 Mar 07 j 17:42	10° <b>X</b> 31'59	10.03017 AC	retrograde	1412 Sep 12 j 21:39	9° <b>Ⅱ</b> 31'47	
retrograde	1406 Jun 21 j 05:11	18° <b>)</b> 14'12		opposition	1412 Nov 19 j 06:06	6° <b>П</b> 01'32	-1°54'18
opposition	1406 Aug 30 j 10:16	14° <b>)</b> (49'19	-2°20'13	min. Earth dist.	1412 Nov 19 j 00:00		8.01173 AU
min. Earth dist.	1406 Aug 30 j 14:34		8.57789 AU	direct	1413 Jan 24 j 15:51	2° <b>I</b> 33'28	0.01175110
direct	1406 Nov 06 j 11:48	11° <b>)</b> (28'42	,	evening set	1413 May 08 j 10:17	10° <b>∏</b> 45'03	
evening set	1407 Feb 14 j 12:02	18° <b>)</b> €53'57					
Č	,			conjunction	1413 May 26 j 11:57	13° <b>Ⅱ</b> 05'54	-1°18'27
conjunction	1407 Mar 03 j 12:24	21° <b>)</b> 00′12	-2°01'05	minimum elong	1413 May 26 j 12:01	13° <b>Ⅱ</b> 05'55	1°18'28
minimum elong	1407 Mar 03 j 12:22	21° <b>)</b> 00′11	2°01'05	max. Earth dist.	1413 May 26 j 17:32	13° <b>Ⅱ</b> 07'44	9.99876 AU
max. Earth dist.	1407 Mar 03 j 08:00	20° <b>)</b> 58′50	10.51553 AU	morning rise	1413 Jun 13 j 15:23	15° <b>Ⅱ</b> 27'22	
morning rise	1407 Mar 20 j 17:07	23° <b>)</b> €07'52		retrograde	1413 Sep 27 j 12:41	23° <b>Ⅱ</b> 48'31	
	1407 May 31 j 05:17	$0$ ° $\mathbf{\Upsilon}$		opposition	1413 Dec 03 j 12:46	20° <b>Ⅱ</b> 18'33	-1°20'00
retrograde	1407 Jul 04 j 22:26	1° <b>Ƴ</b> 00'07		min. Earth dist.	1413 Dec 03 j 07:53	20° <b>Ⅱ</b> 19'34	7.99460 AU
	1407 Aug 08 j 22:52	30° <b>₹</b> ₩		direct	1414 Feb 08 j 02:26	16° <b>Ⅱ</b> 49'35	
opposition	1407 Sep 12 j 16:16	27° <b>)</b> 33′46		evening set	1414 May 23 j 14:13	25° <b>Ⅱ</b> 04'16	
min. Earth dist.	1407 Sep 12 j 19:03		8.45471 AU				
direct	1407 Nov 19 j 04:44	24° <b>)</b> 12′02		conjunction	1414 Jun 10 j 18:26	27° <b>Ⅱ</b> 25'51	
	1408 Feb 12 j 23:30	0°Υ′		minimum elong	1414 Jun 10 j 18:28		0°48'43
evening set	1408 Feb 27 j 15:43	1° <b>Y</b> 45'54		max. Earth dist.	1414 Jun 11 j 01:25	27° <b>Ⅲ</b> 28'08	9.99711 AU
				morning rise	1414 Jun 28 j 23:03	29° <b>Ⅱ</b> 47'35	
conjunction	1408 Mar 15 j 19:29	3° <b>Y</b> 54'47 3° <b>Y</b> 54'46			1414 Jun 30 j 13:58	0°95	
minimum elong max. Earth dist.	1408 Mar 15 j 19:28 1408 Mar 15 j 16:13		10.39277 AU	retrograde	1414 Oct 12 j 01:08	8°504'43 4°535'26	0940144
morning rise	•	6° <b>Υ</b> 05'09	10.39277 AU	opposition min. Earth dist.	1414 Dec 17 j 18:42 1414 Dec 17 j 13:05	4 \$33 26 4°\$36'36	8.00769 AU
retrograde	1408 Apr 02 j 03:51 1408 Jul 17 j 21:47	14° <b>Υ</b> 06'57		direct	1414 Dec 17 j 13.03 1415 Feb 22 j 14:57	1°905'51	8.00709 AU
opposition	1408 Sep 25 j 04:20	14 <b>γ</b> 00 3 / 10° <b>γ</b> 39'16	-2°47'08	evening set	1415 Jun 07 j 18:56	9° <b>5</b> 21'27	
min. Earth dist.	1408 Sep 25 j 05:52	10° <b>Υ</b> 38'58		evening sec	1113 Jun 07 J 10.30	, 32127	
direct	1408 Dec 01 j 05:55	7° <b>Υ</b> 16'15	0.55 105 110	conjunction	1415 Jun 25 j 23:57	11°5942'47	-0°16'03
evening set	1409 Mar 12 j 05:50	14° <b>Υ</b> 59'06		minimum elong	1415 Jun 25 j 23:58	11°542'47	0°16'04
				max. Earth dist.	1415 Jun 26 j 07:26		10.02541 AU
conjunction	1409 Mar 29 j 13:35	17° <b>Ƴ</b> 10'44	-2°15'55	morning rise	1415 Jul 14 j 04:05	14°903'50	
minimum elong	1409 Mar 29 j 13:35	17° <b>Ƴ</b> 10'45		retrograde	1415 Oct 26 j 09:07	22°514'45	
max. Earth dist.	1409 Mar 29 j 11:17	17° <b>Ƴ</b> 10′01	10.27665 AU	asc. node	1415 Dec 25 j 03:11	19° <b>©</b> 20'07	
morning rise	1409 Apr 16 j 02:05	19° <b>Ƴ</b> 23'54		opposition	1415 Dec 31 j 22:37	18° <b>5</b> 46'29	0°00'45
retrograde	1409 Aug 01 j 03:29	27° <b>Ƴ</b> 34'07		min. Earth dist.	1415 Dec 31 j 16:55	18° <b>5</b> 47'39	8.05015 AU
opposition	1409 Oct 08 j 22:24	24° <b>Ƴ</b> 05'18	-2°48'03	direct	1416 Mar 08 j 03:51	15° <b>©</b> 16'36	
min. Earth dist.	1409 Oct 08 j 22:59	24° <b>Ƴ</b> 05'11	8.22450 AU	evening set	1416 Jun 21 j 21:12	23° <b>©</b> 30'55	
direct	1409 Dec 14 j 15:36	20° <b>Ƴ</b> 40'56					
evening set	1410 Mar 26 j 06:05	28° <b>Ƴ</b> 32'32		conjunction	1416 Jul 10 j 01:10	25° <b>©</b> 51'03	0°17'21
	1410 Apr 06 j 16:29	$0^{\circ}$ 8		minimum elong	1416 Jul 10 j 01:10	25° <b>©</b> 51'02	0°17'20
				max. Earth dist.	1416 Jul 10 j 08:35		10.08176 AU
conjunction	1410 Apr 12 j 18:24	0° <b>8</b> 46'59		morning rise	1416 Jul 28 j 03:06	28°510'29	
minimum elong	1410 Apr 12 j 18:26	0° <b>8</b> 46'59		_	1416 Aug 11 j 21:34	0° <b>N</b>	
max. Earth dist.	1410 Apr 12 j 17:41		10.17371 AU	retrograde	1416 Nov 08 j 10:39	6° <b>Ω</b> 13'35	0041125
morning rise	1410 Apr 30 j 11:18	3° <b>8</b> 02'53		opposition	1417 Jan 13 j 22:59	2° <b>Ω</b> 46'35	U~41'3/

	1429 Feb 03 j 10:49	ರ∘ರ		evening set	1435 Jan 27 j 13:55	1° <b>₩</b> 07'36	
retrograde	1429 Apr 02 j 17:34	2° <b>る</b> 37'46					
	1429 Jun 03 j 07:09	30°R. <b>✓</b>		conjunction	1435 Feb 13 j 10:21	3° <b>)</b> 10′40	
opposition	1429 Jun 12 j 09:20	29° <b>≯</b> 20′10	0°55'20	minimum elong	1435 Feb 13 j 10:18	3° <b>∺</b> 10′39	
min. Earth dist.	1429 Jun 12 j 14:33	29° <b>х</b> 19′13	9.08174 AU	max. Earth dist.	1435 Feb 13 j 04:36		10.66955 AU
direct	1429 Aug 22 j 08:00	26° <b>∡</b> 01'39		morning rise	1435 Mar 02 j 10:40	5° <b>)</b> 14′57	
	1429 Nov 03 j 07:37	0°ಕ		retrograde	1435 Jun 15 j 14:39	12° <b>)</b> 53′24	
evening set	1429 Dec 01 j 04:20	3° <b>る</b> 00'51		opposition	1435 Aug 24 j 22:44	9° <b>)</b> €28'30	
		_		min. Earth dist.	1435 Aug 25 j 02:37		8.61162 AU
conjunction	1429 Dec 17 j 19:03	4° <b>ろ</b> 57'23	0°32'26	direct	1435 Nov 01 j 05:16	6° <b>)</b> €07'42	
minimum elong	1429 Dec 17 j 19:04	4° <b>ප</b> 57'23	0°32'26	evening set	1436 Feb 09 j 03:16	13° <b>)</b> € 30′00	
max. Earth dist.	1429 Dec 17 j 12:39		11.06851 AU				
morning rise	1430 Jan 03 j 09:47	6° <b>る</b> 54'00		conjunction	1436 Feb 26 j 02:11	15° <b>)</b> 35′19	
retrograde	1430 Apr 14 j 16:48	13° <b>る</b> 55'40		minimum elong	1436 Feb 26 j 02:08	15° <b>)</b> (35′19	
opposition	1430 Jun 24 j 11:22	10° <b>ප</b> 37'16	0°23'21	max. Earth dist.	1436 Feb 25 j 20:51		10.55152 AU
min. Earth dist.	1430 Jun 24 j 17:02	10°る36'13	9.04976 AU	morning rise	1436 Mar 14 j 05:36	17° <b>)</b> 42′02	
direct	1430 Sep 03 j 03:00	7° <b>る</b> 18'53		retrograde	1436 Jun 28 j 03:15	25° <b>)</b> € 30′24	
evening set	1430 Dec 12 j 11:40	14° <b>る</b> 18'08		opposition	1436 Sep 06 j 02:17	22° <b>)</b> €04'07	
		—		min. Earth dist.	1436 Sep 06 j 05:42		8.49221 AU
conjunction	1430 Dec 29 j 02:42	16° <b>ප</b> 15'19	0°05'44	direct	1436 Nov 12 j 19:54	18° <b>)</b> 42′20	
minimum elong	1430 Dec 29 j 02:42	16° <b>る</b> 15'19	0°05'43	evening set	1437 Feb 21 j 02:18	26° <b>)</b> 12′54	
behind sun begin	1430 Dec 28 j 20:00	16° <b>る</b> 13'21					
behind sun end	1430 Dec 29 j 09:23	16° <b>ප</b> 17'16		conjunction	1437 Mar 10 j 04:22	28° <b>)</b> € 20'43	
max. Earth dist.	1430 Dec 28 j 19:23		11.02564 AU	minimum elong	1437 Mar 10 j 04:21	28° <b>)</b> € 20'42	
morning rise	1431 Jan 14 j 18:47	18° <b>る</b> 12'50		max. Earth dist.	1437 Mar 10 j 00:45		10.43150 AU
desc. node	1431 Mar 17 j 14:22	24° <b>る</b> 02'29			1437 Mar 23 j 09:54	0°Υ	
retrograde	1431 Apr 26 j 17:14	25° <b>る</b> 19'12		morning rise	1437 Mar 27 j 11:11	0° <b>Υ</b> 30'02	
opposition	1431 Jul 06 j 15:30	21° <b>る</b> 59'47		retrograde	1437 Jul 11 j 22:39	8° <b>Y</b> 28'12	
min. Earth dist.	1431 Jul 06 j 21:53	21° <b>る</b> 58'36	8.99600 AU	opposition	1437 Sep 19 j 12:03	5° <b>Y</b> 00'39	
direct	1431 Sep 14 j 20:44	18° <b>る</b> 41'18		min. Earth dist.	1437 Sep 19 j 14:07	5° <b>Y</b> 00'14	8.37378 AU
evening set	1431 Dec 23 j 21:56	25° <b>る</b> 42'13		direct	1437 Nov 25 j 19:03	1° <b>Ƴ</b> 37'48	
		_		evening set	1438 Mar 06 j 11:51	9° <b>Ƴ</b> 17'09	
conjunction	1432 Jan 09 j 13:42	27° <b>る</b> 40'21				••	
minimum elong	1432 Jan 09 j 13:41	27° <b>る</b> 40'21	0°21'35	conjunction	1438 Mar 23 j 17:49	11° <b>Y</b> 27'41	
max. Earth dist.	1432 Jan 09 j 05:53		10.96173 AU	minimum elong	1438 Mar 23 j 17:48		2°14'59
morning rise	1432 Jan 26 j 07:29	29° <b>る</b> 39'06		max. Earth dist.	1438 Mar 23 j 16:30		10.31561 AU
	1432 Jan 29 j 07:33	0° <b>≈</b>		morning rise	1438 Apr 10 j 04:26	13° <b>Y</b> 39'44	
retrograde	1432 May 07 j 23:17	6° <b>≈</b> 51'42		retrograde	1438 Jul 26 j 02:08	21° <b>Y</b> 46'54	
opposition	1432 Jul 17 j 22:24	3° <b>≈</b> 31′02		opposition	1438 Oct 03 j 03:51	18° <b>Y</b> 18'15	
min. Earth dist.	1432 Jul 18 j 04:51		8.92234 AU	min. Earth dist.	1438 Oct 03 j 04:04		8.26259 AU
direct	1432 Sep 25 j 18:34	0°≈12'14		direct	1438 Dec 09 j 01:20	14° <b>Y</b> 54'18	
evening set	1433 Jan 03 j 12:40	7° <b>≈</b> 16′24		evening set	1439 Mar 20 j 08:00	22° <b>Y</b> 42'28	
conjunction	1433 Jan 20 j 05:40	9° <b>≈</b> 15'52	0048118	conjunction	1439 Apr 06 j 18:24	24° <b>Ƴ</b> 55'48	2°15'01
minimum elong	1433 Jan 20 j 05:38	9°≈15'51		minimum elong	1439 Apr 06 j 18:25	$24^{\circ}$ <b>Y</b> 55'49	
max. Earth dist.	1433 Jan 19 j 22:48		10.87895 AU	max. Earth dist.	1439 Apr 06 j 19:19		10.21022 AU
morning rise	1433 Feb 06 j 01:14	11°≈16'09	10.87893 AU	morning rise	1439 Apr 24 j 09:12	24 <b>γ</b> 30 00 27° <b>γ</b> 10'36	10.21022 AU
morning risc	1433 Mar 12 j 11:29	11 ≈1009 15°≈		morning risc	1439 May 17 j 19:47	0° <b>8</b>	
retrograde	1433 May 20 j 13:44	13 <b>≈</b> 18° <b>≈</b> 36'19		retrograde	1439 Aug 09 j 12:46	5° <b>8</b> 25'13	
opposition	1433 Jul 30 j 09:23	15°≈14'18	1015110	opposition	1439 Aug 09 j 12:40	1° <b>8</b> 55'47	2011/27
min. Earth dist.	1433 Jul 30 j 14:48		8.83131 AU	min. Earth dist.	1439 Oct 17 j 01:12 1439 Oct 16 j 23:31		8.16486 AU
iiiii. Eattii tiist.	1433 Aug 02 j 13:25	15 ∞15 10 15°R≈	6.63131 AU	iiiii. Eartii tiist.	1439 Nov 11 j 08:42	1 <b>3</b> 3000 30° <b>R</b> Υ	6.10460 AU
direct	1433 Oct 07 j 18:12	13 k∞ 11°≈55'01		direct	1439 Nov 11 j 08.42 1439 Dec 22 j 14:21	28° <b>Y</b> 30'43	
direct	1433 Oct 07 j 18.12 1433 Dec 08 j 16:05	11 ≈33 01 15°≈		direct	1440 Feb 01 j 00:58	0° <b>8</b>	
evening set	1434 Jan 15 j 09:25	13 ≈ 19°≈03'52		evening set	1440 Apr 02 j 14:20	6° <b>8</b> 27'15	
evening set	1454 Jan 15 j 07.25	1) ~03 32		evening set	1440 Apr 02 j 14.20	0 02/13	
conjunction	1434 Feb 01 j 03:58	21° <b>≈</b> 04'59	-1°13'27	conjunction	1440 Apr 20 j 05:23	8° <b>8</b> 43'16	-2°07'25
minimum elong	1434 Feb 01 j 03:55	21°≈04'58		minimum elong	1440 Apr 20 j 05:25	8° <b>8</b> 43'17	
max. Earth dist.	1434 Jan 31 j 22:02		10.78025 AU	max. Earth dist.	1440 Apr 20 j 07:58		10.12152 AU
morning rise	1434 Feb 18 j 01:38	23°≈07'07		morning rise	1440 May 08 j 00:28	11° <b>8</b> 00'37	
	1434 May 06 j 07:38	0° <b>∀</b>			1440 Jun 10 j 18:25	15°8	
retrograde	1434 Jun 02 j 10:03	0° <b>∺</b> 36′02		retrograde	1440 Aug 23 j 03:51	19° <b>8</b> 20'30	
	1434 Jun 29 j 18:33	30°R≈		opposition	1440 Oct 30 j 03:06	15° <b>8</b> 50'38	-2°30'27
opposition	1434 Aug 12 j 01:19	27°≈12'34	-1°44'49	min. Earth dist.	1440 Oct 30 j 00:09		8.08656 AU
min. Earth dist.	1434 Aug 12 j 05:41		8.72631 AU	Zartii dist.	1440 Nov 09 j 13:11	15°R8	2.22020710
direct	1434 Oct 19 j 20:43	27 ∞11 44 23°≈52'38	3.,2331110	direct	1441 Jan 04 j 11:01	12° <b>8</b> 24'28	
anoci	1435 Jan 18 j 00:49	0° <b>H</b>		411000	1441 Feb 27 j 12:48	15° <b>8</b>	
	55 tan 10 j 00.77	· /\			1100 2/ J 12.70	0	

minimum elong

max. Earth dist.

1446 Jul 18 j 18:21

1446 Jul 19 j 01:20

3°**Ω**56'04 0°35'32

3°**Ω**58'19 10.13360 AU

1452 Oct 22 j 18:25

1452 Dec 29 j 20:47

morning rise

23°**£**41'57

0°M

_							
retrograde	1453 Jan 30 j 05:00	0°M50'30		retrograde	1459 Apr 09 j 18:01	9° <b>る</b> 12'05	
	1453 Mar 03 j 02:02	30°Ŗ <b>ჲ</b>		opposition	1459 Jun 19 j 13:02	5° <b>る</b> 54'09	0°37'39
opposition	1453 Apr 08 j 19:39	27° <b>≏</b> 31'52	2°45'56	min. Earth dist.	1459 Jun 19 j 17:51	5° <b>る</b> 53'15	9.07861 AU
min. Earth dist.	1453 Apr 08 j 19:18	27° <b>₽</b> 31'56	8.83788 AU	direct	1459 Aug 29 j 08:24	2° <b>る</b> 35'51	
direct	1453 Jun 18 j 17:09	24° <b>≙</b> 08'14		evening set	1459 Dec 07 j 21:20	9° <b>ට</b> 34'11	
	1453 Sep 17 j 20:05	$0^{\circ}$ M					
evening set	1453 Oct 01 j 03:54	1°M31'26		conjunction	1459 Dec 24 j 12:08	11° <b>පි</b> 30'50	0°17'37
•	·			minimum elong	1459 Dec 24 j 12:09	11° <b>る</b> 30'51	0°17'37
conjunction	1453 Oct 18 j 00:48	3° <b>™</b> 31'39	2°12'31	max. Earth dist.	1459 Dec 24 j 06:41	11° <b>る</b> 29'15	11.06261 AU
minimum elong	1453 Oct 18 j 00:49	3°M31'40	2°12'30	morning rise	1460 Jan 10 j 03:34	13° <b>る</b> 27'43	
max. Earth dist.	1453 Oct 18 j 00:26		10.88360 AU	retrograde	1460 Apr 20 j 17:16	20° <b>ප</b> 30'57	
morning rise	1453 Nov 03 j 17:51	5°M30'47	10.00300 AC	opposition	1460 Jun 30 j 15:20	20 <b>ප</b> 3037	0°04'56
•		12°M34'04		min. Earth dist.	-	17 31217 17°る11'27	9.04098 AU
retrograde	1454 Feb 11 j 01:54		2027112		1460 Jun 30 j 19:49		9.04098 AU
opposition	1454 Apr 21 j 04:08	9°M16'06	2°37'13	desc. node	1460 Aug 25 j 15:31	14°る04'24	
min. Earth dist.	1454 Apr 21 j 05:16	9°M15'54	8.92825 AU	direct	1460 Sep 09 j 02:10	13° <b>ප්</b> 54'14	
direct	1454 Jul 01 j 07:53	5°M53'37		evening set	1460 Dec 18 j 05:35	20° <b>る</b> 53'23	
evening set	1454 Oct 13 j 01:23	13°M09'42				_	
	1454 Oct 28 j 15:50	15° <b>™</b>		conjunction	1461 Jan 03 j 20:59	22° <b>る</b> 50'48	-0°09'31
				minimum elong	1461 Jan 03 j 21:00	22° <b>る</b> 50'48	0°09'32
conjunction	1454 Oct 29 j 19:37	15° <b>™</b> 08'15	2°02'57	behind sun begin	1461 Jan 03 j 15:10	22° <b>る</b> 49'05	
minimum elong	1454 Oct 29 j 19:39	15° <b>M</b> 08'15	2°02'57	behind sun end	1461 Jan 04 j 02:49	22° <b>る</b> 52'30	
max. Earth dist.	1454 Oct 29 j 17:30	15° <b>™</b> 07'37	10.96578 AU	max. Earth dist.	1461 Jan 03 j 15:45	22° <b>る</b> 49'16	11.01416 AU
morning rise	1454 Nov 15 j 10:47	17°M05'53		morning rise	1461 Jan 20 j 13:43	24° <b>る</b> 48'40	
retrograde	1455 Feb 22 j 19:36	24°M05'20		•	1461 Mar 13 j 20:33	0° <b>≈</b>	
opposition	1455 May 03 j 09:02	20°M47'49	2°22'17	retrograde	1461 May 02 j 21:59	1°≈57'17	
min. Earth dist.	1455 May 03 j 10:49	20°M47'30	9.00128 AU		1461 Jun 23 j 17:54	30°R₹	
direct	1455 Jul 13 j 16:03	17°M26'29	y	opposition	1461 Jul 12 j 20:10	28° <b>る</b> 37'42	-0°28'20
evening set	1455 Oct 24 j 16:21	24°M36'24		min. Earth dist.	1461 Jul 13 j 00:33	28° <b>ප</b> 36'53	8.98192 AU
evening set	1433 Oct 24 j 10.21	24 1163024		direct	1461 Sep 20 j 21:21	25° <b>る</b> 19'39	0.76172 AO
:	1455 N 10:00.50	260 <b>m</b> 22144	1949125	direct		0° <b>≈</b>	
conjunction	1455 Nov 10 j 08:50	26°M33'44		. ,	1461 Dec 08 j 16:27		
minimum elong	1455 Nov 10 j 08:53		1°48'35	evening set	1461 Dec 29 j 17:38	2° <b>≈</b> 21'08	
max. Earth dist.	1455 Nov 10 j 06:09		11.02933 AU				
morning rise	1455 Nov 26 j 22:47	28°M30'21		conjunction	1462 Jan 15 j 09:51	4° <b>≈</b> 19'38	
	1455 Dec 10 j 04:33	0°⊀		minimum elong	1462 Jan 15 j 09:50	4° <b>≈</b> 19'38	
retrograde	1456 Mar 05 j 12:29	5° <b>∡</b> ¹27'27		max. Earth dist.	1462 Jan 15 j 03:48	4°≈17'50	10.94514 AU
opposition	1456 May 14 j 11:12	2° <b>∡</b> 10′10	2°01'59	morning rise	1462 Feb 01 j 04:21	6°≈18'51	
min. Earth dist.	1456 May 14 j 13:14	2° <b>∡</b> °09'48	9.05430 AU	retrograde	1462 May 15 j 08:07	13° <b>≈</b> 34'14	
	1456 Jun 15 j 10:41	30°RM₊		opposition	1462 Jul 25 j 04:44	10° <b>≈</b> 13'32	-1°01'00
direct	1456 Jul 24 j 19:18	28° <b>™</b> 49'51		min. Earth dist.	1462 Jul 25 j 09:42	10° <b>≈</b> 12'36	8.90351 AU
	1456 Sep 01 j 07:14	0° <b>∡</b> ¹		direct	1462 Oct 02 j 17:41	6° <b>≈</b> 55'13	
evening set	1456 Nov 04 j 02:27	5° <b>∡</b> 54'48		evening set	1463 Jan 10 j 10:51	14°≈00'32	
Č	J			Ü	1463 Jan 18 j 19:03	15° <b>≈</b>	
conjunction	1456 Nov 20 j 17:52	7° <b>∡</b> 751'22	1°30'06				
minimum elong	1456 Nov 20 j 17:54	7° <b>∡</b> 751'23	1°30'07	conjunction	1463 Jan 27 j 04:19	16° <b>≈</b> 00′28	-1°02'24
max. Earth dist.	1456 Nov 20 j 14:49		11.07187 AU	minimum elong	1463 Jan 27 j 04:17	16°≈00'27	
morning rise	1456 Dec 07 j 07:18	9° <b>×</b> <sup>7</sup> 47'26	11.0/10/210	max. Earth dist.	1463 Jan 26 j 21:55		10.85788 AU
•	•	16° <b>х</b> 43'41			,	13 ≈3832 18°≈01'21	10.63766 AU
retrograde	1457 Mar 17 j 06:05		1°37'09	morning rise	1463 Feb 13 j 00:57	25°≈24'45	
opposition	1457 May 26 j 11:55	13° ₹ 26'26		retrograde	1463 May 27 j 22:43		1921146
min. Earth dist.	1457 May 26 j 14:58	13° <b>₹</b> 25'53	9.08538 AU	opposition	1463 Aug 06 j 17:35	22°≈02'44	
direct	1457 Aug 05 j 17:22	10° <b>₹</b> 07'00		min. Earth dist.	1463 Aug 06 j 22:45	22°≈01'46	8.80824 AU
evening set	1457 Nov 15 j 09:34	17° <b>∡</b> *08'17		direct	1463 Oct 14 j 18:37	18° <b>≈</b> 43'52	
		_		evening set	1464 Jan 22 j 10:55	25° <b>≈</b> 54'31	
conjunction	1457 Dec 02 j 00:14	19° <b>∡</b> 04'30	1°08'15				
minimum elong	1457 Dec 02 j 00:16	19° <b>∡</b> 04'30	1°08'16	conjunction	1464 Feb 08 j 06:12	27° <b>≈</b> 56′13	-1°26'07
max. Earth dist.	1457 Dec 01 j 19:49	19° <b>∡</b> 03'12	11.09186 AU	minimum elong	1464 Feb 08 j 06:09	27° <b>≈</b> 56′12	1°26'06
morning rise	1457 Dec 18 j 13:52	21° <b>₮</b> 00′26		max. Earth dist.	1464 Feb 08 j 00:22	27° <b>≈</b> 54'27	10.75497 AU
retrograde	1458 Mar 28 j 22:14	27° <b>∡</b> 57′26		morning rise	1464 Feb 25 j 05:06	29° <b>≈</b> 59'03	
opposition	1458 Jun 07 j 12:14	24° <b>₹</b> 39'58	1°08'43		1464 Feb 25 j 08:18	0° <b>)</b>	
min. Earth dist.	1458 Jun 07 j 16:37	24° <b>₹</b> ³39'10	9.09353 AU	retrograde	1464 Jun 08 j 22:48	7° <b>)</b> 31′29	
direct	1458 Aug 17 j 12:51	21° <b>×</b> <sup>7</sup> 21'12		opposition	1464 Aug 18 j 11:18	4° <b>)</b> €08'03	-1°59'15
evening set	1458 Nov 26 j 15:20	28° <b>₹</b> 20'18		min. Earth dist.	1464 Aug 18 j 15:55	4° <b>₩</b> 07'10	8.69902 AU
	1458 Dec 10 j 21:32	0°る		direct	1464 Oct 26 j 01:07	0° <b>)</b> (48'26	2.22202110
	1.00 DOC 10 J 21.02	v O		evening set	1465 Feb 02 j 19:04	8° <b>H</b> 05'45	
conjunction	1458 Dec. 12 : 05:46	0° <b>る</b> 16'31	0°43'49	evening set	1703100 02J17.04	o 7(0343	
conjunction	1458 Dec 13 j 05:46			aaniumatiam	1465 Ech 10:16:40	100 10012 4	1016120
minimum elong	1458 Dec 13 j 05:48	0°る16'32		conjunction	1465 Feb 19 j 16:40	10° <b>)</b> €09'34	
max. Earth dist.	1458 Dec 13 j 00:04		11.08875 AU	minimum elong	1465 Feb 19 j 16:37	10° <b>)</b> €09'33	
morning rise	1458 Dec 29 j 20:11	2°る12'45		max. Earth dist.	1465 Feb 19 j 11:43	10° <b>\</b> 08'02	10.63988 AU

	146534 00:10.10	1201/1440			1451 0 14:01 10		
morning rise	1465 Mar 08 j 18:13	12° <b>)</b> 14′40		retrograde	1471 Sep 14 j 21:10	11° <b>Ⅱ</b> 13'10	
retrograde	1465 Jun 22 j 07:18	19° <b>∺</b> 56'52		opposition	1471 Nov 21 j 05:42	7° <b>Ⅱ</b> 42'59	-1°51'41
opposition	1465 Aug 31 j 10:57	16° <b>∺</b> 31'59	-2°22'00	min. Earth dist.	1471 Nov 21 j 02:05	7° <b>Ⅱ</b> 43'43	8.01447 AU
min. Earth dist.	1465 Aug 31 j 14:26	16° <b>∺</b> 31'18	8.58000 AU	direct	1472 Jan 26 j 15:12	4° <b>Ⅱ</b> 14'56	
direct	1465 Nov 07 j 11:11	13° <b>∺</b> 11′26		evening set	1472 May 09 j 10:55	12° <b>Ⅱ</b> 26′24	
evening set	1466 Feb 15 j 12:29	20° <b>)</b> 36′35		_			
•	·			conjunction	1472 May 27 j 12:42	14° <b>∏</b> 47'15	-1°16'10
conjunction	1466 Mar 04 j 12:51	22° <b>)</b> 42'48	-2°02'17	minimum elong	1472 May 27 j 12:45	14° <b>∏</b> 47'17	1°16'10
minimum elong	1466 Mar 04 j 12:49	22° <b>)</b> 42'47		max. Earth dist.	1472 May 27 j 18:04		10.00149 AU
max. Earth dist.	1466 Mar 04 j 08:18		10.51783 AU	morning rise	1472 Jun 14 j 16:08	17° <b>Ⅱ</b> 08'40	10.00117110
morning rise	1466 Mar 21 j 17:39	24° <b>H</b> 50'27	10.51765 AC	retrograde	1472 Sep 28 j 13:06	25°II29'26	
morning rise	5	24 <b>γ</b> (3027 0° <b>γ</b>		-	1472 Sep 28 j 13:00 1472 Dec 04 j 12:12	23 <b>H</b> 2920 21° <b>H</b> 59'33	101757
. 1	1466 May 08 j 15:10			opposition	,		
retrograde	1466 Jul 05 j 23:08	2° <b>Y</b> 42'38		min. Earth dist.	1472 Dec 04 j 07:39		7.99728 AU
	1466 Sep 04 j 08:12	30° <b>₹</b>		direct	1473 Feb 09 j 01:05	18° <b>Ⅲ</b> 30'35	
opposition	1466 Sep 13 j 16:50	29° <b>∺</b> 16'19		evening set	1473 May 24 j 14:44	26° <b>Ⅱ</b> 45'09	
min. Earth dist.	1466 Sep 13 j 19:33	29° <b>₩</b> 15'47	8.45722 AU				
direct	1466 Nov 20 j 04:42	25° <b>)</b> 54'38		conjunction	1473 Jun 11 j 18:54	29° <b>Ⅱ</b> 06'42	-0°46'08
	1467 Jan 29 j 14:29	$0$ $^{\circ}$ $\mathbf{\Upsilon}$		minimum elong	1473 Jun 11 j 18:57	29° <b>Ⅱ</b> 06'43	0°46'09
evening set	1467 Feb 28 j 16:10	3° <b>Y</b> 28′25		max. Earth dist.	1473 Jun 12 j 01:06	29° <b>Ⅱ</b> 08'44	9.99979 AU
					1473 Jun 18 j 14:09	0°ಲಾ	
conjunction	1467 Mar 17 j 19:57	5° <b>Ƴ</b> 37'17	-2°12'25	morning rise	1473 Jun 29 j 23:33	1° <b>©</b> 28'24	
minimum elong	1467 Mar 17 j 19:56	5° <b>Ƴ</b> 37'17	2°12'25	retrograde	1473 Oct 13 j 01:38	9° <b>©</b> 45'08	
max. Earth dist.	1467 Mar 17 j 15:58		10.39542 AU	opposition	1473 Dec 18 j 18:03	6°9315'56	-0°37'26
morning rise	1467 Apr 04 j 04:34	7° <b>Υ</b> 47'39	10.57542 110	min. Earth dist.	1473 Dec 18 j 13:16		8.01033 AU
-	1467 Jul 19 j 22:07	15° <b>Υ</b> 49'19		direct	1474 Feb 23 j 14:11	2° <b>9</b> 46'19	0.01033 AC
retrograde	-	$13^{\circ}$ <b>\gamma</b> 4919 $12^{\circ}$ <b>\gamma</b> 21'42	2047127		3		
opposition	1467 Sep 27 j 04:44			evening set	1474 Jun 08 j 19:16	11° <b>©</b> 01'50	
min. Earth dist.	1467 Sep 27 j 06:52		8.33741 AU		1474 1 27:00 10	120522106	0012122
direct	1467 Dec 03 j 06:16	8°Υ58'43		conjunction	1474 Jun 27 j 00:10	13°523'06	
evening set	1468 Mar 13 j 06:19	16° <b>Ƴ</b> 41'29		minimum elong	1474 Jun 27 j 00:11	13° <b>©</b> 23'06	0°13'23
		••		behind sun begin	1474 Jun 26 j 20:09	13° <b>©</b> 21'48	
conjunction	1468 Mar 30 j 14:14	18° <b>Y</b> 53′09		behind sun end	1474 Jun 27 j 04:12	13° <b>5</b> 24'24	
minimum elong	1468 Mar 30 j 14:14	18° <b>Ƴ</b> 53'09		max. Earth dist.	1474 Jun 27 j 06:28		10.02799 AU
max. Earth dist.	1468 Mar 30 j 11:28		10.27944 AU	morning rise	1474 Jul 15 j 04:19	15° <b>©</b> 44'06	
morning rise	1468 Apr 17 j 02:59	21° <b>Y</b> 06′19		retrograde	1474 Oct 27 j 08:39	23° <b>©</b> 54'38	
retrograde	1468 Aug 02 j 04:03	29° <b>Ƴ</b> 16'19		asc. node	1474 Nov 25 j 13:36	23° <b>©</b> 07'42	
opposition	1468 Oct 09 j 22:35	25° <b>Ƴ</b> 47'36	-2°47'34	opposition	1475 Jan 01 j 21:47	20°526'26	0°04'06
min. Earth dist.	1468 Oct 09 j 23:47	25° <b>Ƴ</b> 47'21	8.22727 AU	min. Earth dist.	1475 Jan 01 j 16:53	20° <b>©</b> 27'26	8.05262 AU
direct	1468 Dec 15 j 15:38	22° <b>Y</b> 23′15		direct	1475 Mar 10 j 04:31	16°956'30	
	1469 Mar 25 j 07:31	0°8		evening set	1475 Jun 23 j 21:27	25°910'46	
evening set	1469 Mar 27 j 06:34	0° <b>8</b> 14'47		•	•		
S	,	_		conjunction	1475 Jul 12 j 01:15	27° <b>©</b> 30'48	0°19'59
conjunction	1469 Apr 13 j 19:08	2° <b>8</b> 29'14	-2°11'56	minimum elong	1475 Jul 12 j 01:14	27° <b>©</b> 30'48	0°19'59
minimum elong	1469 Apr 13 j 19:10	2° <b>8</b> 29'14		max. Earth dist.	1475 Jul 12 j 07:35		10.08405 AU
max. Earth dist.	1469 Apr 13 j 18:38		10.17650 AU	morning rise	1475 Jul 30 j 03:06	29°\$50'10	10.00102710
morning rise	1469 May 01 j 12:10	4° <b>8</b> 45'07	10.17030710	morning rise	1475 Jul 31 j 10:13	0°Ω	
-	1469 Aug 16 j 14:54	13° <b>8</b> 01'41			1475 Nov 10 j 08:11	7° <b>Ω</b> 52'56	
retrograde	1469 Oct 23 j 21:30		2020112	retrograde	,		0°44'49
opposition		9° <b>8</b> 32'06		opposition	1476 Jan 15 j 21:57	4° <b>Ω</b> 25'58	
min. Earth dist.	1469 Oct 23 j 21:08	9° <b>8</b> 32'11	8.13318 AU	min. Earth dist.	1476 Jan 15 j 16:43	4°Ω27'03	8.12136 AU
direct	1469 Dec 29 j 09:13	6°806'26		direct	1476 Mar 23 j 17:22	0° <b>Ω</b> 56'08	
evening set	1470 Apr 10 j 16:32	14° <b>8</b> 06'00		evening set	1476 Jul 07 j 18:25	9° <b>Ω</b> 07'04	
	1470 Apr 17 j 17:22	15° <b>8</b>				_	
				conjunction	1476 Jul 25 j 19:34	11° <b>Ω</b> 25′03	0°51'39
conjunction	1470 Apr 28 j 10:00	16° <b>8</b> 23'05	-2°00'20	minimum elong	1476 Jul 25 j 19:32	11° <b>Ω</b> 25′02	0°51'38
minimum elong	1470 Apr 28 j 10:03	16° <b>8</b> 23'06	2°00'21	max. Earth dist.	1476 Jul 26 j 01:56	11° <b>Ω</b> 27′06	10.16444 AU
max. Earth dist.	1470 Apr 28 j 11:54	16° <b>8</b> 23'42	10.09270 AU	morning rise	1476 Aug 12 j 17:40	13° <b>Ω</b> 42'01	
morning rise	1470 May 16 j 07:13	18° <b>8</b> 41'24			1476 Aug 23 j 06:09	15° <b>Ω</b>	
retrograde	1470 Aug 31 j 05:16	27° <b>8</b> 02'07		retrograde	1476 Nov 23 j 01:14	21° <b>Ω</b> 36′03	
opposition	1470 Nov 07 j 00:15	23° <b>8</b> 32'02	-2°19'18	opposition	1477 Jan 28 j 17:27	18° <b>Ω</b> 10′30	1°22'08
min. Earth dist.	1470 Nov 06 j 22:05	23° <b>8</b> 32'29		min. Earth dist.	1477 Jan 28 j 11:50	18° <b>Ω</b> 11'38	8.21224 AU
direct	1471 Jan 12 j 09:47	20° <b>8</b> 05'07	, 0.110		1477 Mar 19 j 04:16	15°RΩ	
evening set	1471 Apr 25 j 10:43	28° <b>8</b> 11'28		direct	1477 Apr 07 j 01:37	13 <b>\3</b> € 14° <b>Ω</b> 41'05	
evening set		0°II		anoct		14 <b>δ</b> 241 03	
	1471 May 09 j 10:24	ν <b>д</b>		avaning sat	1477 Apr 25 j 21:44	22°Ω46'55	
aaniumatiam	1471 May 12:00.47	00П20147	19/11/26	evening set	1477 Jul 22 j 07:49	440°33	
conjunction	1471 May 13 j 08:47	0° <b>Ⅱ</b> 30'47		aaminus -t:	1477 4 00 : 05 07	250 00211	1910/40
minimum elong	1471 May 13 j 08:51	0° <b>Ⅱ</b> 30'48		conjunction	1477 Aug 09 j 05:07	25°Ω02'16	1°19'49
max. Earth dist.	1471 May 13 j 12:38		10.03314 AU	minimum elong	1477 Aug 09 j 05:03	25°Ω02'15	1°19'49
morning rise	1471 May 31 j 09:38	2° <b>Ⅱ</b> 51′01		max. Earth dist.	1477 Aug 09 j 11:29	25~8704,18	10.26417 AU

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morning rise	1477 Aug 26 j 22:23	27° <b>Ω</b> 16′21		morning rise	1483 Nov 10 j 09:00	11° <b>M</b> 55'38	
	1477 Sep 18 j 20:34	0° <b>m</b> y			1483 Dec 08 j 09:54	15° <b>™</b>	
retrograde	1477 Dec 06 j 11:17	5° <b>m</b> 01'11		retrograde	1484 Feb 17 j 19:09	18° <b>M</b> 57′00	
opposition	1478 Feb 11 j 07:40	1° <b>m</b> 37'08	1°54'00	opposition	1484 Apr 27 j 01:28	15° <b>™</b> 39'47	2°29'50
min. Earth dist.	1478 Feb 11 j 02:02	1°Mp38'15	8.31966 AU	min. Earth dist.	1484 Apr 27 j 02:21	15° <b>™</b> 39'37	8.97521 AU
	1478 Mar 04 j 07:34	30°R€			1484 May 06 j 00:08	15°RM	
direct	1478 Apr 21 j 04:51	28° <b>Ω</b> 08'29		direct	1484 Jul 07 j 05:11	12°M18'26	
direct				direct	-		
	1478 Jun 07 j 10:26	0° m/y			1484 Sep 04 j 18:29	15°M	
evening set	1478 Aug 05 j 12:05	6° Mp 07′49		evening set	1484 Oct 18 j 16:05	19° <b>M</b> 31'24	
conjunction	1478 Aug 23 j 04:38	8° Mp 20'10	1°43'05	conjunction	1484 Nov 04 j 09:25	21°M29'17	1°55'45
minimum elong	1478 Aug 23 j 04:35	8° Mp 20'09	1°43'05	minimum elong	1484 Nov 04 j 09:27		1°55'44
max. Earth dist.	1478 Aug 23 j 10:52	8° <b>™</b> 22'08	10.37727 AU	max. Earth dist.	1484 Nov 04 j 07:13	21°M28'38	11.00781 AU
morning rise	1478 Sep 09 j 16:31	10° m/31'06		morning rise	1484 Nov 20 j 23:48	23°M26'21	
retrograde	1478 Dec 19 j 13:02	18° Mp 06'46			1485 Feb 06 j 08:54	0° <b>∡</b> ¹	
opposition	1479 Feb 24 j 16:10	14° <b>m</b> ) 44'15	2°19'01	retrograde	1485 Feb 28 j 12:04	0° <b>∡</b> ¹24'35	
min. Earth dist.	1479 Feb 24 j 11:27	14° <b>m</b> ) 45'11	8.43749 AU		1485 Mar 22 j 22:41	30°RM	
direct	1479 May 05 j 02:11	11° <b>m</b> ) 16'38	0.13713110	opposition	1485 May 09 j 05:16	27°M07'45	2°11'56
	• •	19° Mp 08'27		min. Earth dist.		27°M07'11	9.03727 AU
evening set	1479 Aug 19 j 05:56	19 11/0827			1485 May 09 j 08:20		9.03727 AU
	1450 0 05:15.05	0107015110	2000121	direct	1485 Jul 19 j 11:31	23°M47'24	
conjunction	1479 Sep 05 j 17:25	21° <b>m</b> 17'42			1485 Oct 22 j 03:50	0° <b>∡</b> ¹	
minimum elong	1479 Sep 05 j 17:22	21°Mp17'41	2°00'31	evening set	1485 Oct 30 j 05:02	0° <b>∡</b> 54'55	
max. Earth dist.	1479 Sep 05 j 22:36	21°Mp19'18	10.49763 AU				
morning rise	1479 Sep 23 j 00:00	23° <b>m</b> 25'29		conjunction	1485 Nov 15 j 20:46	2° <b>х</b> 51′49	1°39'05
	1479 Nov 30 j 22:18	0∘ <b>⊽</b>		minimum elong	1485 Nov 15 j 20:49	2° <b>∡</b> ¹51'49	1°39'05
retrograde	1480 Jan 01 j 07:08	0° <b>ჲ</b> 52'25		max. Earth dist.	1485 Nov 15 j 16:14	2° <b>∡</b> 50′28	11.05874 AU
Č	1480 Feb 02 j 02:28	30°R M⊅		morning rise	1485 Dec 02 j 10:29	4° <b>∡</b> ¹48'08	
opposition	1480 Mar 08 j 18:56	27° mp 31'21	2°36'21	retrograde	1486 Mar 12 j 05:19	11° <b>√</b> 44'54	
min. Earth dist.	1480 Mar 08 j 15:32	27° m/32'01	8.55956 AU	opposition	1486 May 21 j 07:12	8° <b>∡</b> ¹28'07	1°49'06
		24° Mp 04'55	6.55750 AC	min. Earth dist.		8° <b>×</b> <sup>2</sup> 27'22	
direct	1480 May 17 j 16:46	•			1486 May 21 j 11:15		9.07624 AU
	1480 Aug 16 j 01:19	0∘ <b>⊽</b>		direct	1486 Jul 31 j 13:25	5° <b>∡</b> 08'39	
evening set	1480 Aug 31 j 12:53	1° <b>≏</b> 48'36		evening set	1486 Nov 10 j 13:51	12° <b>∡</b> 11′56	
conjunction	1480 Sep 17 j 19:24	3° <b>£</b> 54'52	2°11'38	conjunction	1486 Nov 27 j 04:48	14° <b>∡</b> 08′20	1°18'42
minimum elong	1480 Sep 17 j 19:22	3° <b>£</b> 54'52	2°11'39	minimum elong	1486 Nov 27 j 04:51	14° <b>∡</b> 08′20	1°18'42
max. Earth dist.	1480 Sep 17 j 22:49	3° <b>ჲ</b> 55'55	10.61915 AU	max. Earth dist.	1486 Nov 26 j 23:38	14° <b>≯</b> 06'48	11.08615 AU
morning rise	1480 Oct 04 j 21:16	5° <b>≏</b> 59'43		morning rise	1486 Dec 13 j 18:22	16° <b>∡</b> 04'21	
retrograde	1481 Jan 12 j 17:51	13° <b>≏</b> 18'37		retrograde	1487 Mar 23 j 22:09	23° <b>∡</b> 01'15	
opposition	1481 Mar 21 j 15:56	9° <b>£</b> 58'52	2°45'47	opposition	1487 Jun 02 j 08:11	19° <b>∡</b> ¹44'13	1°22'13
min. Earth dist.	1481 Mar 21 j 13:47	9° <b>Ω</b> 59'17	8.67972 AU	min. Earth dist.	1487 Jun 02 j 12:28		9.09137 AU
direct	1481 May 31 j 00:17	6° <b>£</b> 33'43		direct	1487 Aug 12 j 11:25	16° <b>₹</b> 25'23	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
evening set	1481 Sep 13 j 09:20	14° <b>⊆</b> 09'06		evening set	1487 Nov 21 j 20:37	23°×25'51	
evening set	1481 Sep 13 J 09.20	14 == 09 00		evening set	146/ NOV 21 J 20.3/	23 <b>x</b> ·23 31	
· · · · · · · · · · · ·	1401 C 20 : 11.25	169 0 12120	2017/24	:	1407 D 00 : 11.10	259.722107	0955120
conjunction	1481 Sep 30 j 11:25	16° <b>Ω</b> 12'39		conjunction	1487 Dec 08 j 11:19	25° ₹ 22'07	0°55'20
minimum elong	1481 Sep 30 j 11:25	16° <b>≙</b> 12'39		minimum elong	1487 Dec 08 j 11:21	25° <b>₹</b> 22'08	0°55'21
max. Earth dist.	1481 Sep 30 j 12:59		10.73596 AU	max. Earth dist.	1487 Dec 08 j 05:55		11.08967 AU
morning rise	1481 Oct 17 j 09:12	18° <b>≏</b> 14'54		morning rise	1487 Dec 25 j 01:15	27° <b>∡</b> 18'15	
retrograde	1482 Jan 24 j 21:37	25° <b>≏</b> 26'44			1488 Jan 18 j 18:09	0°₹	
opposition	1482 Apr 03 j 07:28	22° <b>≏</b> 08'04	2°47'29	retrograde	1488 Apr 03 j 18:19	4° <b>る</b> 16'48	
min. Earth dist.	1482 Apr 03 j 05:55	22° <b>ഫ</b> 08'22	8.79230 AU	opposition	1488 Jun 13 j 09:01	0° <b>궁</b> 59'14	0°52'14
direct	1482 Jun 13 j 01:41	18° <b>≏</b> 44'15		min. Earth dist.	1488 Jun 13 j 13:58	0° <b>궁</b> 58'20	9.08271 AU
evening set	1482 Sep 25 j 19:53	26° <b>£</b> 11'31			1488 Jun 27 j 00:30	30°₽ <b>⋌</b> ¹	
				direct	1488 Aug 23 j 07:19	27° <b>х</b> 40'48	
conjunction	1482 Oct 12 j 18:20	28° <b>£</b> 12'43	2015/01	direct	1488 Oct 16 j 22:28	0°る	
·				. ,	-		
minimum elong	1482 Oct 12 j 18:21	28° <b>£</b> 12'44		evening set	1488 Dec 02 j 02:57	4° <b>る</b> 39'51	
max. Earth dist.	1482 Oct 12 j 19:06		10.84278 AU		1400 5 40 11 2 2	(0 <b>-7</b> 0	0020170
	1482 Oct 27 j 17:25	0° <b>M</b>		conjunction	1488 Dec 18 j 17:38	6°₹36'23	0°29'50
morning rise	1482 Oct 29 j 12:44	0° <b>™</b> 12'45		minimum elong	1488 Dec 18 j 17:39	6° <b>る</b> 36'24	
retrograde	1483 Feb 05 j 22:53	7°M18'43		max. Earth dist.	1488 Dec 18 j 10:57		11.06959 AU
opposition	1483 Apr 15 j 18:28	4°M00'54	2°41'57	morning rise	1489 Jan 04 j 08:32	8° <b>る</b> 33'03	
min. Earth dist.	1483 Apr 15 j 17:41	4°M01'03	8.89229 AU	retrograde	1489 Apr 15 j 15:21	15° <b>る</b> 34'45	
direct	1483 Jun 25 j 19:49	0°M38'23		opposition	1489 Jun 25 j 11:05	12° <b>る</b> 16'23	0°20'07
evening set	1483 Oct 07 j 21:32	7° <b>M</b> 58'01		min. Earth dist.	1489 Jun 25 j 17:09	12° <b>る</b> 15'16	9.05091 AU
	j <b>21.02</b>			direct	1489 Sep 04 j 00:52	8° <b>る</b> 58'05	
conjunction	1483 Oct 24 j 17:07	9° <b>M</b> 57'21	2°07'57	evening set	1489 Dec 13 j 10:22	15° <b>ප</b> 57'15	
minimum elong	1483 Oct 24 j 17:09	9°M57'21	2°07'56	overning sec	1107 Dec 15 j 10.22	15 05/15	
max. Earth dist.				aaniumatiam	1490 Day 20 : 01:24	17° <b>る</b> 54'24	0003104
max. Eathi dist.	1483 Oct 24 j 17:01	2 IIG3/19	10.93480 AU	conjunction	1489 Dec 30 j 01:24	17 034724	0 03 04

minimum elong	1489 Dec 30 j 01:22	17° <b>る</b> 54'24	0°03'04	evening set	1496 Feb 23 j 01:09	27° <b>¥</b> 50'49	
behind sun begin	1489 Dec 29 j 18:26	17° <b>る</b> 52'22		C	J		
behind sun end	1489 Dec 30 j 08:19	17° <b>る</b> 56'25		conjunction	1496 Mar 11 j 03:26	29° <b>∺</b> 58'38	-2°08'38
max. Earth dist.	1489 Dec 29 j 17:54	17° <b>る</b> 52'12	11.02687 AU	minimum elong	1496 Mar 11 j 03:25	29° <b>)</b> 58′37	2°08'38
morning rise	1490 Jan 15 j 17:38	19° <b>る</b> 51'55		max. Earth dist.	1496 Mar 11 j 00:32	29° <b>)</b> 57'43	10.43378 AU
desc. node	1490 Feb 09 j 15:22	22° <b>る</b> 36'01			1496 Mar 11 j 07:49	$0$ ° $\mathbf{\Upsilon}$	
retrograde	1490 Apr 27 j 16:14	26° <b>る</b> 58'23		morning rise	1496 Mar 28 j 10:14	2° <b>Y</b> 07'54	
opposition	1490 Jul 07 j 15:10	23° <b>る</b> 38'58	-0°13'05	retrograde	1496 Jul 12 j 21:21	10° <b>Ƴ</b> 05'53	
min. Earth dist.	1490 Jul 07 j 21:29	23° <b>る</b> 37'47	8.99729 AU	opposition	1496 Sep 20 j 10:40	6° <b>Ƴ</b> 38'17	-2°44'32
direct	1490 Sep 15 j 21:18	20° <b>る</b> 20'32		min. Earth dist.	1496 Sep 20 j 12:13		8.37611 AU
evening set	1490 Dec 24 j 20:38	27° <b>る</b> 21'21		direct	1496 Nov 26 j 18:02	3° <b>Y</b> 15'25	
				evening set	1497 Mar 07 j 10:36	10° <b>Ƴ</b> 54'34	
conjunction	1491 Jan 10 j 12:31	29° <b>る</b> 19'29					
minimum elong	1491 Jan 10 j 12:30	29° <b>る</b> 19'29		conjunction	1497 Mar 24 j 16:43	13° <b>Y</b> 05′05	
max. Earth dist.	1491 Jan 10 j 05:38		10.96308 AU	minimum elong	1497 Mar 24 j 16:42	13° <b>Y</b> 05'05	
	1491 Jan 16 j 04:43	0° <b>≈</b>		max. Earth dist.	1497 Mar 24 j 15:33		10.31784 AU
morning rise	1491 Jan 27 j 06:17	1°≈18'13		morning rise	1497 Apr 11 j 03:22	15° <b>Y</b> 17'07	
retrograde	1491 May 09 j 23:44	8° <b>≈</b> 30'53		retrograde	1497 Jul 27 j 02:06	23° <b>Y</b> 24'01	
opposition	1491 Jul 19 j 22:05	5°≈10'12		opposition	1497 Oct 04 j 02:11	19° <b>Y</b> 55'21	
min. Earth dist.	1491 Jul 20 j 03:39	5°≈09'10	8.92379 AU	min. Earth dist.	1497 Oct 04 j 02:05	19°Υ55'23	8.26476 AU
direct	1491 Sep 27 j 18:05	1°≈51'28		direct	1497 Dec 09 j 22:31	16° <b>Υ</b> 31'22	
evening set	1492 Jan 05 j 11:25	8°≈55'28		evening set	1498 Mar 21 j 06:32	24° <b>Ƴ</b> 19'21	
conjunction	1492 Jan 22 j 04:31	10°≈54'55	-0°50'46	conjunction	1498 Apr 07 j 17:00	26° <b>Ƴ</b> 32'40	-2°14'39
minimum elong	1492 Jan 22 j 04:30	10° <b>≈</b> 54'54	0°50'46	minimum elong	1498 Apr 07 j 17:01	26° <b>Ƴ</b> 32'40	2°14'40
max. Earth dist.	1492 Jan 21 j 22:22	10° <b>≈</b> 53'04	10.88043 AU	max. Earth dist.	1498 Apr 07 j 17:14	26° <b>Ƴ</b> 32'44	10.21229 AU
morning rise	1492 Feb 08 j 00:06	12° <b>≈</b> 55'11		morning rise	1498 Apr 25 j 07:59	28° <b>Ƴ</b> 47'27	
C	1492 Feb 26 j 08:03	15° <b>≈</b>		C	1498 May 05 j 02:21	0°8	
retrograde	1492 May 21 j 13:07	20°≈15′23		retrograde	1498 Aug 10 j 11:44	7° <b>8</b> 01'46	
opposition	1492 Jul 31 j 08:59	16° <b>≈</b> 53′20	-1°18'04	opposition	1498 Oct 17 j 23:15	3° <b>8</b> 32'20	-2°43'38
min. Earth dist.	1492 Jul 31 j 13:49	16° <b>≈</b> 52′26	8.83292 AU	min. Earth dist.	1498 Oct 17 j 21:57	3° <b>8</b> 32'36	8.16678 AU
	1492 Aug 27 j 01:23	15° <b>R</b> ≈		direct	1498 Dec 23 j 12:15	0° <b>8</b> 07'12	
direct	1492 Oct 08 j 16:42	13° <b>≈</b> 34′06		evening set	1499 Apr 04 j 12:42	8° <b>8</b> 03'37	
	1492 Nov 19 j 01:36	15° <b>≈</b>					
evening set	1493 Jan 16 j 08:23	20° <b>≈</b> 42'49		conjunction	1499 Apr 22 j 03:51	10° <b>8</b> 19'37	
				minimum elong	1499 Apr 22 j 03:54	10° <b>8</b> 19'38	2°06'29
conjunction	1493 Feb 02 j 02:53	22° <b>≈</b> 43'54	-1°15'39	max. Earth dist.	1499 Apr 22 j 05:17		10.12334 AU
minimum elong	1493 Feb 02 j 02:50	22° <b>≈</b> 43'53	1°15'38	morning rise	1499 May 09 j 23:13	12° <b>8</b> 36'58	
max. Earth dist.	1493 Feb 01 j 20:35		10.78193 AU		1499 May 29 j 09:52	15° <b>8</b>	
morning rise	1493 Feb 19 j 00:40	24° <b>≈</b> 46′01		retrograde	1499 Aug 25 j 01:22	20° <b>8</b> 56'31	
	1493 Apr 10 j 21:50	0° <b>∀</b>		opposition	1499 Nov 01 j 00:49	17° <b>8</b> 26'41	
retrograde	1493 Jun 03 j 10:05	2° <b>)</b> 14′53		min. Earth dist.	1499 Oct 31 j 22:45		8.08813 AU
	1493 Jul 28 j 16:51	30°R <b>≈</b>			1499 Dec 04 j 07:39	15° <b>₹</b> 8	
opposition	1493 Aug 13 j 00:47	28°≈51'25		direct	1500 Jan 06 j 09:44	14° <b>8</b> 00'26	
min. Earth dist.	1493 Aug 13 j 05:25		8.72814 AU		1500 Feb 08 j 03:17	15° <b>8</b>	
direct	1493 Oct 20 j 19:45	25°≈31'28		evening set	1500 Apr 18 j 03:48	22° <b>8</b> 04'15	
. ,	1494 Jan 04 j 05:07	0° <b>)</b> (4€110			1500 M 05 : 22 20	240	1050145
evening set	1494 Jan 28 j 12:54	2° <b>)</b> 46′18		conjunction	1500 May 05 j 23:39	24° <b>8</b> 22'39	1°50'45
i	1404 E-l- 14 : 00.17	49 <b>W</b> 40110	1927142	minimum elong	1500 May 05 j 23:43	_	1°30'43 10.05661 AU
conjunction	1494 Feb 14 j 09:17	4° <b>)</b> 49'19 4° <b>)</b> 49'18		max. Earth dist.	1500 May 06 j 02:46	24° <b>8</b> 23'40	10.03001 AU
minimum elong max. Earth dist.	1494 Feb 14 j 09:15 1494 Feb 14 j 03:06		1 37 42 10.67150 AU	morning rise	1500 May 23 j 23:02 1500 Jun 20 j 04:27	26 <b>3</b> 42 09 0° <b>Ⅱ</b>	
morning rise	1494 Mar 03 j 09:46	6° <b>¥</b> 53'35	10.07130 AU	retrograde	1500 Sep 07 j 17:20	5° <b>Ⅱ</b> 04'19	
retrograde	1494 Jun 16 j 13:40	14° <b>X</b> 33'56		opposition	1500 Sep 07 j 17:20 1500 Nov 14 j 05:49	1° <b>∏</b> 34'25	-2°05'00
opposition	1494 Aug 25 j 22:07	11° <b>)</b> (07'02	-2°12'26	min. Earth dist.	1500 Nov 14 j 02:39		8.03396 AU
min. Earth dist.	1494 Aug 26 j 02:28		8.61372 AU	iiiii. Lattii dist.	1500 Nov 14 j 02:59	30°R <b>8</b>	6.03370 AO
direct	1494 Nov 02 j 04:07	7° <b>)</b> (46'12	0.01372710	direct	1500 Dec 04 j 01:30	28° <b>8</b> 07'11	
evening set	1495 Feb 10 j 02:05	15° <b>)</b> €08'21		ancer	1501 Mar 06 j 03:48	0° <b>I</b>	
		11 7(3021		evening set	1501 May 03 j 01:52	6° <b>Ⅱ</b> 16'47	
conjunction	1495 Feb 27 j 01:07	17° <b>)</b> 13′38	-1°55'46	-			
minimum elong	1495 Feb 27 j 01:05	17° <b>) 1</b> 3′38	1°55'46	conjunction	1501 May 21 j 01:57	8° <b>Ⅲ</b> 37′02	-1°28'08
max. Earth dist.	1495 Feb 26 j 20:17	17° <b>) 12'</b> 08	10.55371 AU	minimum elong	1501 May 21 j 02:00	8° <b>Ⅱ</b> 37'03	1°28'08
morning rise	1495 Mar 16 j 04:36	19° <b>∺</b> 20'19		max. Earth dist.	1501 May 21 j 06:56		10.01645 AU
retrograde	1495 Jun 30 j 01:03	27° <b>)</b> €08'34		morning rise	1501 Jun 08 j 04:31	10° <b>Ⅲ</b> 58′03	
opposition	1495 Sep 08 j 01:23	220 1 42114	2022100	retrograde	1501 Sep 22 j 09:51	19° <b>Ⅱ</b> 19'58	
1 70 (1 11 )		23° <b>)</b> (42'14		-			
min. Earth dist.	1495 Sep 08 j 04:40	23° <b>)</b> 41'35	8.49451 AU	opposition	1501 Nov 28 j 12:31	15° <b>Ⅱ</b> 50′21	
min. Earth dist. direct				-		15° <b>Ⅱ</b> 50′21	-1°33'09 8.00777 AU

						_	
morning rise	1513 Nov 16 j 08:57	18°M42'56		morning rise	1520 Jan 22 j 12:57	26° <b>る</b> 28'35	
retrograde	1514 Feb 23 j 18:40	25°M42'43			1520 Feb 24 j 08:39	0° <b>≈</b>	
opposition	1514 May 04 j 07:58	22°M25'09	2°20'30	retrograde	1520 May 03 j 22:06	3° <b>≈</b> 37'25	
min. Earth dist.	1514 May 04 j 08:59	22°M24'57	8.99677 AU	opposition	1520 Jul 13 j 20:16	0°≈17'47	-0°31'34
direct	1514 Jul 14 j 15:30	19°M03'48		min. Earth dist.	1520 Jul 14 j 00:52	0°≈16'56	8.97944 AU
evening set	1514 Oct 25 j 14:38	26°M13'53			1520 Jul 17 j 20:16	30°R₹	
evening set	1514 001 25 j 14.50	20 1101333		direct	1520 Sep 21 j 19:37	26° <b>る</b> 59'43	
. ,.	151431 11:07.12	200 <b>m</b> 11117	1046154	unect	1 3		
conjunction	1514 Nov 11 j 07:13	28°M11'17		_	1520 Nov 22 j 16:37	0° <b>≈</b>	
minimum elong	1514 Nov 11 j 07:15	28°M11'18	1°46'54	evening set	1520 Dec 30 j 16:50	4° <b>≈</b> 01'16	
max. Earth dist.	1514 Nov 11 j 05:23	28°M10'45	11.02475 AU				
	1514 Nov 26 j 17:31	0° <b>∡</b> ¹		conjunction	1521 Jan 16 j 09:04	5° <b>≈</b> 59'48	-0°39'04
morning rise	1514 Nov 27 j 21:07	0° <b>∡</b> 07'59		minimum elong	1521 Jan 16 j 09:03	5° <b>≈</b> 59'48	0°39'04
retrograde	1515 Mar 07 j 12:49	7° <b>∡</b> ¹05'24		max. Earth dist.	1521 Jan 16 j 02:57	5°≈57'59	10.94314 AU
opposition	1515 May 16 j 10:36	3° <b>х</b> 48′04	1°59'41	morning rise	1521 Feb 02 i 03:46	7°≈59'04	
min. Earth dist.	1515 May 16 j 12:33	3° <b>×</b> <sup>7</sup> 47'42	9.04962 AU	morning rise	1521 Apr 28 j 23:20	15° <b>≈</b>	
			9.04902 AU	. 1			
direct	1515 Jul 26 j 17:42	0° <b>₹</b> 27'45		retrograde	1521 May 16 j 06:27	15°≈14'39	
evening set	1515 Nov 06 j 00:52	7° <b>,</b> 7³32'48			1521 Jun 02 j 18:12	15° <b>R</b> ≈	
				opposition	1521 Jul 26 j 04:47	11° <b>≈</b> 53'53	-1°04'02
conjunction	1515 Nov 22 j 16:15	9° <b>∡</b> ¹29'27	1°28'03	min. Earth dist.	1521 Jul 26 j 09:45	11° <b>≈</b> 52'58	8.90203 AU
minimum elong	1515 Nov 22 j 16:18	9° <b>∡</b> ¹29'27	1°28'03	direct	1521 Oct 03 j 17:38	8° <b>≈</b> 35'33	
max. Earth dist.	1515 Nov 22 j 13:06	9° <b>∡</b> ¹28'31	11.06725 AU		1522 Jan 05 j 13:40	15° <b>≈</b>	
morning rise	1515 Dec 09 j 05:48	11° <b>₹</b> 25'36		evening set	1522 Jan 11 j 10:06	15° <b>≈</b> 40'56	
retrograde	1516 Mar 18 j 04:17	18° × 22'10		evening set	1322 3411 11 1 10.00	13 7040 30	
•	-		1024127	. ,.	1500 I 20:02 42	170 40152	1004145
opposition	1516 May 27 j 11:37	15° <b>₹</b> 04'51	1°34'27	conjunction	1522 Jan 28 j 03:42	17° <b>≈</b> 40'53	
min. Earth dist.	1516 May 27 j 14:58	15° <b>₹</b> 04'14	9.08084 AU	minimum elong	1522 Jan 28 j 03:40	17° <b>≈</b> 40'53	1°04'44
direct	1516 Aug 06 j 15:43	11° <b>∡</b> ⁴45'23		max. Earth dist.	1522 Jan 27 j 22:19	17° <b>≈</b> 39'16	10.85696 AU
evening set	1516 Nov 16 j 08:10	18° <b>∡</b> ¹46'49		morning rise	1522 Feb 14 j 00:20	19° <b>≈</b> 41'47	
				retrograde	1522 May 28 j 23:24	27°≈05'21	
conjunction	1516 Dec 02 j 22:49	20° <b>∡</b> ¹43'05	1°05'54	opposition	1522 Aug 07 j 17:34	23° <b>≈</b> 43'17	-1°34'28
minimum elong	1516 Dec 02 j 22:51	20° <b>х</b> 43′05	1°05'54	min. Earth dist.	1522 Aug 07 j 21:50	23° <b>≈</b> 42'29	
max. Earth dist.	1516 Dec 02 j 18:09		11.08749 AU	direct	1522 Oct 15 j 19:33	20°≈24'27	0.00007710
	•		11.06/49 AU				
morning rise	1516 Dec 19 j 12:40	22° <b>х</b> 39'07		evening set	1523 Jan 23 j 10:16	27° <b>≈</b> 35'03	
retrograde	1517 Mar 29 j 21:50	29° <b>∡</b> 36′25					
opposition	1517 Jun 08 j 11:56	26° <b>⊀</b> 18'52	1°05'43	conjunction	1523 Feb 09 j 05:40	29° <b>≈</b> 36'45	-1°28'08
min. Earth dist.	1517 Jun 08 j 16:04	26° <b>∡</b> 18′07	9.08930 AU	minimum elong	1523 Feb 09 j 05:38	29° <b>≈</b> 36'45	1°28'07
direct	1517 Aug 18 j 13:13	23° <b>∡</b> ¹00'05		max. Earth dist.	1523 Feb 09 j 01:03	29° <b>≈</b> 35′21	10.75553 AU
evening set	1517 Nov 27 j 14:02	29° <b>₹</b> 59'17			1523 Feb 12 j 10:07	0° <b>∀</b>	
<b>3</b>	1517 Nov 27 j 16:33	0°ප		morning rise	1523 Feb 26 j 04:34	1° <b>)</b> 39'36	
	1317 100 27 j 10.33	٥ ٠		retrograde	1523 Jun 10 j 23:36	9° <b>)</b> 12'03	
	1517 D 14: 04:27	10755125	0041115	-	,		2001120
conjunction	1517 Dec 14 j 04:37	1°る55'35		opposition	1523 Aug 20 j 11:11	5° <b>)</b> (48'35	
minimum elong	1517 Dec 14 j 04:38	1° <b>る</b> 55'35		min. Earth dist.	1523 Aug 20 j 14:45		8.70057 AU
max. Earth dist.	1517 Dec 13 j 23:46	1° <b>る</b> 54'10	11.08473 AU	direct	1523 Oct 27 j 23:33	2° <b>)</b> €29'00	
morning rise	1517 Dec 30 j 19:04	3° <b>る</b> 51'53		evening set	1524 Feb 04 j 18:33	9° <b>)</b> 46′12	
retrograde	1518 Apr 10 j 17:38	10° <b>る</b> 51'31					
opposition	1518 Jun 20 j 12:53	7° <b>る</b> 33'29	0°34'26	conjunction	1524 Feb 21 j 16:09	11° <b>)</b> 49'58	-1°48'03
min. Earth dist.	1518 Jun 20 j 16:40	7° <b>る</b> 32'47	9.07475 AU	minimum elong	1524 Feb 21 j 16:06	11° <b>)(</b> 49'57	1°48'03
direct	1518 Aug 30 j 07:38	4° <b>る</b> 15'11	y.or .re 110	max. Earth dist.	1524 Feb 21 j 11:24		10.64228 AU
	• •	11° <b>ට</b> 13'37		morning rise		13° <b>¥</b> 55'02	10.04220710
evening set	1518 Dec 08 j 20:11	11 0133/		•	1524 Mar 09 j 17:49		
		—		retrograde	1524 Jun 23 j 06:48	21° <b>)</b> € 37'05	
conjunction	1518 Dec 25 j 11:05	13° <b>る</b> 10'19	0°14'57	opposition	1524 Sep 01 j 10:37	18° <b>¥</b> 12'12	
minimum elong	1518 Dec 25 j 11:06	13° <b>る</b> 10'19	0°14'57	min. Earth dist.	1524 Sep 01 j 13:53	18° <b>∺</b> 11'34	8.58328 AU
behind sun begin	1518 Dec 25 j 08:15	13° <b>る</b> 09'29		direct	1524 Nov 08 j 10:34	14° <b>升</b> 51'40	
behind sun end	1518 Dec 25 j 13:56	13° <b>る</b> 11'09		evening set	1525 Feb 16 j 11:55	22° <b>升</b> 16′37	
max. Earth dist.	1518 Dec 25 j 06:34	13°る09'00	11.05901 AU	•	v		
morning rise	1519 Jan 11 j 02:31	15° <b>る</b> 07'15		conjunction	1525 Mar 05 j 12:16	24° <b>)</b> 22'46	-2°03'21
-	-	22° <b>ට</b> 10'47		minimum elong	-	24° <b>)</b> 22'46	
retrograde	1519 Apr 22 j 18:11		0001120	•	1525 Mar 05 j 12:14		
opposition	1519 Jul 02 j 15:23	18°る52'02	0°01'39	max. Earth dist.	1525 Mar 05 j 07:15		10.52176 AU
min. Earth dist.	1519 Jul 02 j 19:16	18° <b>る</b> 51'19	9.03769 AU	morning rise	1525 Mar 22 j 17:15	26° <b>)</b> 30′22	
desc. node	1519 Jul 21 j 09:31	17° <b>る</b> 31'27			1525 Apr 22 j 06:52	$0$ ° $\Upsilon$	
direct	1519 Sep 11 j 01:57	15° <b>る</b> 33'59		retrograde	1525 Jul 06 j 22:24	4° <b>Y</b> 22'16	
evening set	1519 Dec 20 j 04:39	22° <b>る</b> 33'11		opposition	1525 Sep 14 j 16:14	0° <b>Y</b> 56'01	-2°39'30
-	·			min. Earth dist.	1525 Sep 14 j 19:25	0° <b>Y</b> 55'23	8.46171 AU
conjunction	1520 Jan 05 j 20:03	24° <b>る</b> 30'39	-0°12'11		1525 Sep 26 j 17:52	30° <b>₹</b>	
minimum elong	1520 Jan 05 j 20:03	24° <b>ප</b> 30'39		direct	1525 Sep 20 j 17:32 1525 Nov 21 j 04:11	27° <b>)</b> 34'20	
_	-		0 12 12	ancei	-	27 <b>π</b> 34 20 0° <b>Υ</b>	
behind sun begin	1520 Jan 05 j 15:17	24° <b>る</b> 29'15			1526 Jan 13 j 06:20		
behind sun end	1520 Jan 06 j 00:50	24° <b>පි</b> 32'03		evening set	1526 Mar 01 j 15:24	5° <b>℃</b> 07'51	
max. Earth dist.	1520 Jan 05 j 14:43	24° <b>♂</b> 29'05	11.01125 AU				

conjunction	1526 Mar 18 j 19:18	7° <b>Υ</b> 16'39	-2°12'54	minimum elong	1532 Jun 12 j 16:59	0° <b>©</b> 41'24	0°43'47
minimum elong	1526 Mar 18 j 19:17	7°Υ16'39	2°12'55	max. Earth dist.	1532 Jun 12 j 21:50		10.00403 AU
max. Earth dist.	1526 Mar 18 j 15:18		10.40034 AU	morning rise	1532 Jun 30 j 21:41	3°903'01	10.00403710
morning rise	1526 Apr 05 j 04:03	9° <b>Υ</b> 26'59	10.40054710	retrograde	1532 Oct 13 j 21:55	11° <b>©</b> 19'17	
retrograde	1526 Jul 20 j 21:25	17° <b>Y</b> 28'17		opposition	1532 Dec 19 j 15:03	7°950'12	-0°34'24
opposition	1526 Sep 28 j 03:52	14° <b>Υ</b> 00'43	-2°47'39	min. Earth dist.	1532 Dec 19 j 10:59	7°951'02	
min. Earth dist.	1526 Sep 28 j 06:17	14° <b>Υ</b> 00'15		direct	1533 Feb 24 j 12:47	4°520'36	0.01.20110
direct	1526 Dec 04 j 05:13	10° <b>Y</b> 37'46	0.5 .200 110	evening set	1533 Jun 09 j 16:59	12° <b>©</b> 35'57	
evening set	1527 Mar 15 j 05:20	18° <b>Y</b> 20'13					
C	J			conjunction	1533 Jun 27 j 21:50	14° <b>©</b> 57'09	-0°10'56
conjunction	1527 Apr 01 j 13:30	20° <b>Ƴ</b> 31'49	-2°15'45	minimum elong	1533 Jun 27 j 21:51	14° <b>©</b> 57'09	0°10'56
minimum elong	1527 Apr 01 j 13:30	20° <b>Ƴ</b> 31'49	2°15'46	behind sun begin	1533 Jun 27 j 16:22	14°955'23	
max. Earth dist.	1527 Apr 01 j 11:21	20° <b>Ƴ</b> 31′08	10.28489 AU	behind sun end	1533 Jun 28 j 03:20	14° <b>©</b> 58'55	
morning rise	1527 Apr 19 j 02:19	22° <b>Y</b> 44'56		max. Earth dist.	1533 Jun 28 j 03:22	14° <b>©</b> 58'56	10.03148 AU
	1527 Jul 02 j 14:57	0°8		morning rise	1533 Jul 16 j 01:59	17° <b>©</b> 18'04	
retrograde	1527 Aug 04 j 02:01	0° <b>8</b> 54'31		retrograde	1533 Oct 28 j 04:13	25° <b>©</b> 28'16	
	1527 Sep 05 j 18:37	30° <b>₹</b> Υ		asc. node	1533 Oct 29 j 18:22	25°528'08	
opposition	1527 Oct 11 j 21:16	27° <b>Y</b> 25'50	-2°47'00	opposition	1534 Jan 02 j 18:33	22°500'08	0°07'08
min. Earth dist.	1527 Oct 11 j 22:16	27° <b>Y</b> 25'38	8.23286 AU	min. Earth dist.	1534 Jan 02 j 13:46	22° <b>©</b> 01'08	8.05568 AU
direct	1527 Dec 17 j 15:28	24° <b>Y</b> 01'34		direct	1534 Mar 11 j 02:21	18° <b>5</b> 30'14	
	1528 Mar 12 j 22:07	$9^{\circ}$ 8		evening set	1534 Jun 24 j 19:00	26°5544'23	
evening set	1528 Mar 28 j 05:31	1° <b>8</b> 52'44					
				conjunction	1534 Jul 12 j 22:48	29° <b>5</b> 04'22	0°22'22
conjunction	1528 Apr 14 j 18:20	4° <b>8</b> 07'09	-2°11'12	minimum elong	1534 Jul 12 j 22:47	29° <b>5</b> 04'22	0°22'22
minimum elong	1528 Apr 14 j 18:22	4° <b>8</b> 07'10	2°11'13	max. Earth dist.	1534 Jul 13 j 04:58	29° <b>5</b> 06'21	10.08664 AU
max. Earth dist.	1528 Apr 14 j 18:27	4° <b>8</b> 07'11	10.18209 AU		1534 Jul 20 j 02:57	$0^{\circ}\Omega$	
morning rise	1528 May 02 j 11:23	6° <b>8</b> 22'58		morning rise	1534 Jul 31 j 00:31	1° <b>Ω</b> 23′38	
retrograde	1528 Aug 17 j 12:40	14° <b>8</b> 39'02		retrograde	1534 Nov 11 j 04:51	9° <b>Ω</b> 26'11	
opposition	1528 Oct 24 j 19:41	11° <b>8</b> 09'32	-2°36'54	opposition	1535 Jan 16 j 18:30	5° <b>Ω</b> 59'15	0°47'40
min. Earth dist.	1528 Oct 24 j 18:50	11° <b>8</b> 09'42	8.13876 AU	min. Earth dist.	1535 Jan 16 j 13:03	6° <b>Ω</b> 00′22	8.12341 AU
direct	1528 Dec 30 j 08:01	7° <b>8</b> 43'56		direct	1535 Mar 25 j 13:49	2° <b>Ω</b> 29′25	
	1529 Apr 05 j 22:18	15° <b>8</b>		evening set	1535 Jul 09 j 15:51	10° <b>Ω</b> 40'19	
evening set	1529 Apr 11 j 15:15	15° <b>8</b> 43'07					
				conjunction	1535 Jul 27 j 16:57	12° <b>Ω</b> 58'15	0°53'50
conjunction	1529 Apr 29 j 08:53	18° <b>8</b> 00'10	-1°59'03	minimum elong	1535 Jul 27 j 16:54	12° <b>Ω</b> 58'15	0°53'50
minimum elong	1529 Apr 29 j 08:56		1°59'04	max. Earth dist.	1535 Jul 27 j 23:34		10.16593 AU
max. Earth dist.	1529 Apr 29 j 10:48		10.09821 AU		1535 Aug 12 j 14:35	15° <b>Ω</b>	
morning rise	1529 May 17 j 06:08	20° <b>8</b> 18'25		morning rise	1535 Aug 14 j 14:45	15° <b>Ω</b> 15′09	
retrograde	1529 Sep 01 j 03:34	28° <b>8</b> 38'37		retrograde	1535 Nov 24 j 22:41	23° <b>Ω</b> 09'02	
opposition	1529 Nov 07 j 22:08	25° <b>8</b> 08'37		opposition	1536 Jan 30 j 14:03	19° <b>Ω</b> 43'30	1°24'40
min. Earth dist.	1529 Nov 07 j 19:53	25° <b>8</b> 09'05	8.06614 AU	min. Earth dist.	1536 Jan 30 j 08:23	19° <b>Ω</b> 44'39	8.21317 AU
direct	1530 Jan 13 j 06:47	21° <b>8</b> 41'44		direct	1536 Apr 07 j 22:15	16° <b>Ω</b> 14'05	
evening set	1530 Apr 26 j 09:10	29° <b>8</b> 47'45		evening set	1536 Jul 23 j 05:01	24° <b>Ω</b> 19'56	
	1530 Apr 27 j 23:29	$\Pi$ °0				_	
		_		conjunction	1536 Aug 10 j 02:08	26° <b>Ω</b> 35'14	
conjunction	1530 May 14 j 07:18	2° <b>∏</b> 07'00		minimum elong	1536 Aug 10 j 02:05	26° <b>Ω</b> 35'13	
minimum elong	1530 May 14 j 07:22	2° <b>∏</b> 07'01		max. Earth dist.	1536 Aug 10 j 08:47		10.26450 AU
max. Earth dist.	1530 May 14 j 10:29		10.03841 AU	morning rise	1536 Aug 27 j 19:05	28° <b>Ω</b> 49'14	
morning rise	1530 Jun 01 j 08:16	4° <b>Ⅱ</b> 27'12			1536 Sep 06 j 10:20	0° m/y	
retrograde	1530 Sep 15 j 20:12	12° <b>Ⅱ</b> 48'48	1040112	retrograde	1536 Dec 07 j 07:55	6° Mp 34'03	105606
opposition	1530 Nov 22 j 03:16	9° <b>Ⅱ</b> 18'43		opposition	1537 Feb 12 j 04:20	3°Mp10'00	1°56'06
min. Earth dist.	1530 Nov 22 j 00:13		8.01951 AU	min. Earth dist.	1537 Feb 11 j 23:16	3° mp 11'01	8.31948 AU
direct	1531 Jan 27 j 12:15	5° <b>∏</b> 50'41		1' 4	1537 Apr 03 j 03:44	30°R€	
evening set	1531 May 11 j 09:14	14° <b>Ⅱ</b> 01'53		direct	1537 Apr 22 j 01:42	29° <b>Ω</b> 41′20	
agniumation	1521 May 20 : 11:01	16° <b>Ⅲ</b> 22'40	1914/02	avanina aat	1537 May 10 j 23:47	0° <b>т</b> р 7° <b>т</b> р 40'44	
conjunction minimum elong	1531 May 29 j 11:01 1531 May 29 j 11:04	16°Щ22'40 16°Щ22'41		evening set	1537 Aug 06 j 09:08	/ III/4044	
max. Earth dist.	1531 May 29 j 15:10		10.00634 AU	conjunction	1537 Aug 24 j 01:27	9° m 53'03	1°44'34
max. Earth dist.	1531 May 29 j 15:10 1531 Jun 16 j 14:36	18° <b>П</b> 24'01	10.00034 AU	minimum elong	1537 Aug 24 j 01:27 1537 Aug 24 j 01:24	9° m 53'02	
retrograde	1531 Jun 16 j 14:36 1531 Sep 30 j 11:02	18°Щ44 02 27°Щ04'15		max. Earth dist.	1537 Aug 24 j 01:24 1537 Aug 24 j 07:15		1°44°34 10.37652 AU
opposition	1531 Sep 30 j 11:02 1531 Dec 06 j 09:25	23° <b>II</b> 34'29	-1°14'07	max. Earth dist.	1537 Aug 24 j 07:15 1537 Sep 10 j 13:07	12° Th 03'56	10.5/032 AU
min. Earth dist.	1531 Dec 06 j 05:50		8.00180 AU	retrograde	1537 Dec 20 j 09:42	12 IIJ 03 36 19° My 39'39	
direct	1531 Dec 06 j 05:50 1532 Feb 10 j 23:23	23°Щ35'14 20°Щ05'32	0.00100 AU	opposition	1537 Dec 20 j 09:42 1538 Feb 25 j 12:51	19°11/39'39 16°11/17'08	2°20'35
evening set	1532 Feb 10 J 25:23 1532 May 25 j 12:50	20°Щ03'32 28°Щ19'55		min. Earth dist.	1538 Feb 25 j 12:51 1538 Feb 25 j 09:01	16° Mp 17'54	8.43629 AU
evening set	1532 May 25 J 12:50 1532 Jun 07 j 10:12	28°Щ19°55		direct	1538 Feb 25 j 09:01 1538 May 05 j 22:49	16° llp 17'54 12° llp 49'28	0.43029 AU
	1552 Juli 07 J 10.12	0 39		evening set	1538 May 05 j 22:49 1538 Aug 20 j 02:56	20° Mp 41'25	
conjunction	1532 Jun 12 j 16:57	0°541'23	-0°43'46	evening set	1330 Aug 20 J 02.30	20 Hy41 23	
Jonganonon	1002 out 12 J 10.07	U -71 23	0 15 10				

	1520 0 06:14.06	220m 50120	2001122		15440 . 00:07.50	00.7	
conjunction	1538 Sep 06 j 14:06		2°01'32		1544 Oct 08 j 07:59	0° <b>⊼</b> ¹	
minimum elong	1538 Sep 06 j 14:03	22° m 50'37	2°01'32	evening set	1544 Oct 31 j 02:12	2° <b>∡</b> ³30′14	
max. Earth dist.	1538 Sep 06 j 18:13		10.49587 AU				
morning rise	1538 Sep 23 j 20:37	24° <b>m</b> 58'25		conjunction	1544 Nov 16 j 18:02	4° <b>∡</b> 27'11	1°37'16
	1538 Nov 09 j 20:02	0∘ <b>⊽</b>		minimum elong	1544 Nov 16 j 18:04	4° <b>∡</b> ¹27'11	1°37'17
retrograde	1539 Jan 02 j 03:41	2° <b>≏</b> 25'27		max. Earth dist.	1544 Nov 16 j 14:20	4° <b>∡</b> ¹26′05	11.05644 AU
	1539 Feb 26 j 15:28	30°₽, Mp		morning rise	1544 Dec 03 j 07:47	6° <b>∡</b> 23'33	
opposition	1539 Mar 10 j 15:44	29° <b>m</b> 04'23	2°37'20	retrograde	1545 Mar 13 j 02:38	13° <b>∡</b> ¹20'30	
min. Earth dist.	1539 Mar 10 j 12:40	29° <b>m</b> 04'59	8.55737 AU	opposition	1545 May 22 j 05:20	10° <b>∡</b> 03'39	1°46'41
direct	1539 May 19 j 13:21	25° m 37'55		min. Earth dist.	1545 May 22 i 08:22	10° <b>∡</b> ¹03'05	9.07427 AU
	1539 Aug 03 j 14:52	0∘ <u>ଫ</u>		direct	1545 Aug 01 j 11:16	6° <b>∡</b> ¹44'13	
evening set	1539 Sep 02 j 09:44	3° <b>≏</b> 21'46		evening set	1545 Nov 11 j 11:08	13° <b>∡</b> 47'29	
8				8	, <b>,</b>		
conjunction	1539 Sep 19 j 16:02	5° <b>ჲ</b> 28'01	2°12'10	conjunction	1545 Nov 28 j 02:12	15° <b>∡</b> ′43'54	1°16'34
minimum elong	1539 Sep 19 j 16:00	5° <b>≏</b> 28'01	2°12'10	minimum elong	1545 Nov 28 j 02:14		1°16'35
max. Earth dist.	1539 Sep 19 j 18:50		10.61649 AU	max. Earth dist.	1545 Nov 27 j 22:01		11.08450 AU
		7° <b>Ω</b> 32'53	10.01049 AU		•	17° <b>х</b> 4241	11.00430 AU
morning rise	1539 Oct 06 j 17:48			morning rise	1545 Dec 14 j 15:43		
retrograde	1540 Jan 14 j 13:28	14° <b>£</b> 52'01	2016100	retrograde	1546 Mar 24 j 21:43	24° <b>₹</b> 37'01	1010100
opposition	1540 Mar 22 j 12:54	11° <b>△</b> 32'12	2°46'08	opposition	1546 Jun 03 j 06:26	21° <b>∡</b> 19'57	1°19'28
min. Earth dist.	1540 Mar 22 j 10:15	11° <b>≏</b> 32'43	8.67667 AU	min. Earth dist.	1546 Jun 03 j 10:23	21° <b>∡</b> 19'14	9.08995 AU
direct	1540 May 31 j 22:40	8° <b>ჲ</b> 07'03		direct	1546 Aug 13 j 09:33	18° <b>∡</b> '01'10	
evening set	1540 Sep 14 j 06:06	15° <b>≙</b> 42'36		evening set	1546 Nov 22 j 18:04	25° <b>∡</b> 01'35	
conjunction	1540 Oct 01 j 08:09	17° <b>≏</b> 46'10	2°16'24	conjunction	1546 Dec 09 j 08:42	26° <b>∡</b> 57'54	0°52'59
minimum elong	1540 Oct 01 j 08:08	17° <b>≏</b> 46'10	2°16'25	minimum elong	1546 Dec 09 j 08:44	26° <b>∡</b> 57'55	0°52'59
max. Earth dist.	1540 Oct 01 j 10:13	17° <b>≏</b> 46'48	10.73260 AU	max. Earth dist.	1546 Dec 09 j 03:14	26° <b>∡</b> ¹56'18	11.08851 AU
morning rise	1540 Oct 18 j 05:46	19° <b>≏</b> 48'26		morning rise	1546 Dec 25 j 22:45	28° <b>х</b> 54′05	
retrograde	1541 Jan 25 j 19:40	27° <b>₽</b> 00'33			1547 Jan 04 j 15:48	0°る	
opposition	1541 Apr 04 j 04:38	23° <b>Ω</b> 41'50	2°47'12	retrograde	1547 Apr 05 j 15:50	。3 5° <b>る</b> 52'46	
min. Earth dist.	1541 Apr 04 j 02:36	23° <b>△</b> 42'13	8.78862 AU	opposition	1547 Jun 15 j 07:36	2°る35'12	0°49'15
	1 3	20° <b>£</b> 18'02	6.76602 AU	1.1	•	2°る3312 2°る34'14	9.08178 AU
direct	1541 Jun 13 j 22:59			min. Earth dist.	1547 Jun 15 j 12:53		9.081/8 AU
evening set	1541 Sep 26 j 16:44	27° <b>≏</b> 45'27			1547 Jul 25 j 19:01	30°₹ <b>⋌</b>	
		_		direct	1547 Aug 25 j 04:03	29° <b>∡</b> 16'48	
conjunction	1541 Oct 13 j 15:12	29° <b>≏</b> 46'43	2°14'31		1547 Sep 24 j 02:10	0° <b>る</b>	
minimum elong	1541 Oct 13 j 15:13	29° <b>≏</b> 46'44	2°14'31	evening set	1547 Dec 04 j 00:27	6° <b>る</b> 15'50	
max. Earth dist.	1541 Oct 13 j 15:13 1541 Oct 13 j 16:43		2°14'31 10.83893 AU	evening set	1547 Dec 04 j 00:27	6° <b>ර</b> 15'50	
Č	•			evening set conjunction	1547 Dec 04 j 00:27 1547 Dec 20 j 15:06	6°ප15'50 8°ප12'23	0°27'20
Č	1541 Oct 13 j 16:43	29° <b>≏</b> 47'11		C	•		0°27'20 0°27'19
max. Earth dist.	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22	29° <b>£</b> 47'11 0° <b>™</b>		conjunction	1547 Dec 20 j 15:06	8°중12'23 8°중12'23	
max. Earth dist. morning rise retrograde	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37	29° <b>Ω</b> 47'11 0° <b>M</b> 1° <b>M</b> 46'48 8° <b>M</b> 53'01	10.83893 AU	conjunction minimum elong max. Earth dist.	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11	8°る12'23 8°る12'23 8°る10'21	0°27'19
max. Earth dist.  morning rise retrograde opposition	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58	29° <b>Ω</b> 47'11 0° <b>M</b> 1° <b>M</b> 46'48 8° <b>M</b> 53'01 5° <b>M</b> 35'11	10.83893 AU 2°41'03	conjunction minimum elong max. Earth dist. morning rise	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12	8°る12'23 8°る12'23 8°る10'21 10°る09'05	0°27'19
max. Earth dist.  morning rise retrograde opposition min. Earth dist.	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26	29° \$\overline{4}29' 11 0° \$\overline{1}\$ 0° \$\overline{1}\$ 1° \$\overline{1}\$ 46' 48 8° \$\overline{1}\$ 5° \$\overline{1}\$ 35' 11 5° \$\overline{1}\$ 35' 17	10.83893 AU	conjunction minimum elong max. Earth dist. morning rise retrograde	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57	8°♂12'23 8°♂12'23 8°♂10'21 10°♂09'05 17°♂10'59	0°27'19 11.06889 AU
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17	29° \$\alpha 47'11 \\ 0° \$\mathbf{m}\$. \\ 1° \$\mathbf{m} 46'48 \\ 8° \$\mathbf{m} .53'01 \\ 5° \$\mathbf{m} .35'17 \\ 2° \$\mathbf{m} .12'41	10.83893 AU 2°41'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41	8°♂12'23 8°♂12'23 8°♂10'21 10°♂09'05 17°♂10'59 13°♂52'36	0°27'19 11.06889 AU 0°17'01
max. Earth dist.  morning rise retrograde opposition min. Earth dist.	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26	29° \$\overline{1}29° \$\overline{1}247'11 \\ 0° \$\overline{1}1 \\ 1° \$\overline{1}246'48 \\ 8° \$\overline{1}25'01 \\ 5° \$\overline{1}35'11 \\ 5° \$\overline{1}35'17	10.83893 AU 2°41'03	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38	8°る12'23 8°る12'23 8°る10'21 10°る09'05 17°る10'59 13°る52'36 13°る51'30	0°27'19 11.06889 AU
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38	29° \$\oldsymbol{\Omega}47'11 0° \mathred{m}. 1° \mathred{m}.46'48 8° \mathred{m}.53'01 5° \mathred{m}.35'17 2° \mathred{m}.12'41 9° \mathred{m}.32'30	10.83893 AU 2°41'03 8.88833 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03	8°る12'23 8°る12'23 8°る10'21 10°る09'05 17°る10'59 13°る52'36 13°る51'30 10°る34'19	0°27'19 11.06889 AU 0°17'01
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38	29° \$\alpha 47'11 0° \$\mathbb{m}\$. 1° \$\mathbb{m}\$.46'48 8° \$\mathbb{m}\$.53'01 5° \$\mathbb{m}\$.35'17 2° \$\mathbb{m}\$.12'41 9° \$\mathbb{m}\$.32'30 11° \$\mathbb{m}\$.31'52	10.83893 AU  2°41'03 8.88833 AU  2°06'57	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist.	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38	8°る12'23 8°る12'23 8°る10'21 10°る09'05 17°る10'59 13°る52'36 13°る51'30	0°27'19 11.06889 AU 0°17'01
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38 1542 Oct 25 j 14:06 1542 Oct 25 j 14:07	29° \$\alpha 47'11 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.46'48 8° \$\mathbb{M}\$.53'01 5° \$\mathbb{M}\$.35'17 2° \$\mathbb{M}\$.2'30  11° \$\mathbb{M}\$.31'52 11° \$\mathbb{M}\$.31'52	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00	8°♂12'23 8°♂12'23 8°♂10'21 10°♂09'05 17°♂10'59 13°♂52'36 13°♂51'30 10°♂34'19 17°♂33'28	0°27'19 11.06889 AU 0°17'01 9.05038 AU
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38 1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 13:53	29° \$\sim 47'11\) 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.46'48\) 8° \$\mathbb{M}\$.53'01\) 5° \$\mathbb{M}\$.35'17\) 2° \$\mathbb{M}\$.32'30\) 11° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'48\	10.83893 AU  2°41'03 8.88833 AU  2°06'57	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00	8° 〒12'23 8° 〒12'23 8° 〒10'21 10° 〒09'05 17° 〒10'59 13° 〒52'36 13° 〒51'30 10° 〒33'19 17° 〒33'28	0°27'19 11.06889 AU 0°17'01 9.05038 AU 0°00'28
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max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist.	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38  1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 13:53 1542 Nov 11 j 06:00 1542 Nov 24 j 09:04 1543 Feb 18 j 16:07 1543 Apr 28 j 23:21 1543 Apr 29 j 00:33 1543 May 31 j 23:45 1543 Jul 09 j 03:26 1543 Aug 15 j 15:40 1543 Oct 20 j 13:17  1543 Nov 06 j 06:30 1543 Nov 06 j 06:32 1544 Jan 11 j 14:54 1544 Mar 01 j 09:57	29° \$\overline{\Pmathbb{A}}47'11\) 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$46'48\) 8° \$\mathbb{M}\$.53'01\) 5° \$\mathbb{M}\$.35'17\) 2° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'48\) 13° \$\mathbb{M}\$.30'14\) 15° \$\mathbb{M}\$. 20° \$\mathbb{M}\$.31'52\) 17° \$\mathbb{M}\$.14'25\) 15° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.53'17\) 15° \$\mathbb{M}\$. 21° \$\mathbb{M}\$.06'24\) 23° \$\mathbb{M}\$.04'19\) 23° \$\mathbb{M}\$.05'56'56'	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57 10.93091 AU  2°28'22 8.97154 AU  1°54'19 1°54'19	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist.	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00 1548 Dec 30 j 23:07 1548 Dec 30 j 23:09 1548 Dec 30 j 16:12 1548 Dec 30 j 16:12 1548 Dec 30 j 16:26 1549 Jan 06 j 06:34 1549 Jan 16 j 15:26 1549 Apr 28 j 15:23 1549 Jul 08 j 13:44 1549 Jul 08 j 19:13 1549 Sep 16 j 19:38 1549 Dec 25 j 18:28 1550 Jan 11 j 10:27 1550 Jan 11 j 10:26 1550 Jan 11 j 04:22	8° \( \text{T}\) 12'23 8° \( \text{T}\) 12'23 8° \( \text{T}\) 10'21 10° \( \text{T}\) 09'05 17° \( \text{T}\) 10'59 13° \( \text{T}\) 52'36 13° \( \text{T}\) 51'30 10° \( \text{T}\) 33'28 19° \( \text{T}\) 30'39 19° \( \text{T}\) 30'39 19° \( \text{T}\) 32'41 19° \( \text{T}\) 28'38 19° \( \text{T}\) 32'41 19° \( \text{T}\) 28'42 20° \( \text{T}\) 15'25 21° \( \text{T}\) 28' \( \text{T}\) 34'50 25° \( \text{T}\) 15'24 25° \( \text{T}\) 15'7'02 28° \( \text{T}\) 57'49 0° \( \text{T}\) 0° \( \text{T}\) 0° \( \text{T}\) 55'5'58 0° \( \text{T}\) 55'5'58 0° \( \text{T}\) 53'4'10	0°27'19 11.06889 AU 0°17'01 9.05038 AU 0°00'28 0°00'27 11.02647 AU -0°16'11 8.99700 AU
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	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38  1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 14:07 1542 Nov 11 j 06:00 1542 Nov 24 j 09:04 1543 Feb 18 j 16:07 1543 Apr 28 j 23:21 1543 Apr 29 j 00:33 1543 May 31 j 23:45 1543 Jul 09 j 03:26 1543 Aug 15 j 15:40 1543 Oct 20 j 13:17  1543 Nov 06 j 06:30 1543 Nov 06 j 06:32 1544 Apr 22 j 21:01 1544 Jan 11 j 14:54 1544 Mar 01 j 09:57 1544 Apr 22 j 08:12	29° \$\Overline{\	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57 10.93091 AU  2°28'22 8.97154 AU  1°54'19 11.00456 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00 1548 Dec 30 j 23:07 1548 Dec 30 j 16:12 1548 Dec 30 j 16:12 1548 Dec 30 j 16:26 1549 Jan 06 j 06:34 1549 Jan 16 j 15:26 1549 Apr 28 j 15:23 1549 Jul 08 j 13:44 1549 Jul 08 j 19:13 1549 Sep 16 j 19:38 1549 Dec 25 j 18:28 1550 Jan 11 j 10:27 1550 Jan 11 j 10:26 1550 Jan 11 j 04:22 1550 Jan 28 j 04:12	8° \( \dagger 12'23\) 8° \( \dagger 10'21\) 10° \( \dagger 09'05\) 17° \( \dagger 10'59\) 13° \( \dagger 52'36\) 13° \( \dagger 55'130\) 10° \( \dagger 33'19\) 17° \( \dagger 33'28\) 19° \( \dagger 33'39\) 19° \( \dagger 33'39\) 19° \( \dagger 32'41\) 19° \( \dagger 28'38\) 19° \( \dagger 32'41\) 19° \( \dagger 28'42\) 20° \( \dagger 15'25\) 21° \( \dagger 28'13\) 28° \( \dagger 33'50\) 25° \( \dagger 115'24\) 25° \( \dagger 15'702\) 28° \( \dagger 55'49\) 0° \( \alpha \) 55' \( \dagger 15'55\) 0° \( \alpha 55'58\) 0° \( \alpha 54'10\) 2° \( \alpha 54'43\)	0°27'19 11.06889 AU 0°17'01 9.05038 AU 0°00'28 0°00'27 11.02647 AU -0°16'11 8.99700 AU
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	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38  1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 13:53 1542 Nov 11 j 06:00 1542 Nov 24 j 09:04 1543 Feb 18 j 16:07 1543 Apr 28 j 23:21 1543 Apr 29 j 00:33 1543 May 31 j 23:45 1543 Jul 09 j 03:26 1543 Aug 15 j 15:40 1543 Oct 20 j 13:17  1543 Nov 06 j 06:30 1543 Nov 06 j 06:32 1544 Jan 11 j 14:54 1544 Mar 01 j 09:57	29° \$\overline{\Pmathbb{A}}47'11\) 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$46'48\) 8° \$\mathbb{M}\$.53'01\) 5° \$\mathbb{M}\$.35'17\) 2° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'52\) 11° \$\mathbb{M}\$.31'48\) 13° \$\mathbb{M}\$.30'14\) 15° \$\mathbb{M}\$. 20° \$\mathbb{M}\$.31'52\) 17° \$\mathbb{M}\$.14'25\) 15° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.53'17\) 15° \$\mathbb{M}\$. 21° \$\mathbb{M}\$.06'24\) 23° \$\mathbb{M}\$.04'19\) 23° \$\mathbb{M}\$.05'56'56'	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57 10.93091 AU  2°28'22 8.97154 AU  1°54'19 1°54'19	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist.	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00 1548 Dec 30 j 23:07 1548 Dec 30 j 23:09 1548 Dec 30 j 16:12 1548 Dec 30 j 16:12 1548 Dec 30 j 16:26 1549 Jan 06 j 06:34 1549 Jan 16 j 15:26 1549 Apr 28 j 15:23 1549 Jul 08 j 13:44 1549 Jul 08 j 19:13 1549 Sep 16 j 19:38 1549 Dec 25 j 18:28 1550 Jan 11 j 10:27 1550 Jan 11 j 10:26 1550 Jan 11 j 04:22	8° \( \text{T}\) 12'23 8° \( \text{T}\) 12'23 8° \( \text{T}\) 10'21 10° \( \text{T}\) 09'05 17° \( \text{T}\) 10'59 13° \( \text{T}\) 52'36 13° \( \text{T}\) 51'30 10° \( \text{T}\) 33'28 19° \( \text{T}\) 30'39 19° \( \text{T}\) 30'39 19° \( \text{T}\) 32'41 19° \( \text{T}\) 28'38 19° \( \text{T}\) 32'41 19° \( \text{T}\) 28'42 20° \( \text{T}\) 15'25 21° \( \text{T}\) 28' \( \text{T}\) 34'50 25° \( \text{T}\) 15'24 25° \( \text{T}\) 15'7'02 28° \( \text{T}\) 57'49 0° \( \text{T}\) 0° \( \text{T}\) 0° \( \text{T}\) 55'5'58 0° \( \text{T}\) 55'5'58 0° \( \text{T}\) 53'4'10	0°27'19 11.06889 AU 0°17'01 9.05038 AU 0°00'28 0°00'27 11.02647 AU -0°16'11 8.99700 AU
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38  1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 14:07 1542 Nov 11 j 06:00 1542 Nov 24 j 09:04 1543 Feb 18 j 16:07 1543 Apr 28 j 23:21 1543 Apr 29 j 00:33 1543 May 31 j 23:45 1543 Jul 09 j 03:26 1543 Aug 15 j 15:40 1543 Oct 20 j 13:17  1543 Nov 06 j 06:30 1543 Nov 06 j 06:32 1544 Apr 22 j 21:01 1544 Jan 11 j 14:54 1544 Mar 01 j 09:57 1544 Apr 22 j 08:12	29° \$\overline{\Pmathbb{A}}47'11 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.46'48 8° \$\mathbb{M}\$.53'01 5° \$\mathbb{M}\$.35'17 2° \$\mathbb{M}\$.2'30  11° \$\mathbb{M}\$.31'52 11° \$\mathbb{M}\$.31'52 11° \$\mathbb{M}\$.31'48 13° \$\mathbb{M}\$.30'14 15° \$\mathbb{M}\$. 20° \$\mathbb{M}\$.31'52 17° \$\mathbb{M}\$.14'39 17° \$\mathbb{M}\$.14'25 15° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.53'17 15° \$\mathbb{M}\$. 21° \$\mathbb{M}\$.06'24  23° \$\mathbb{M}\$.04'19	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57 10.93091 AU  2°28'22 8.97154 AU  1°54'19 11.00456 AU	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00 1548 Dec 30 j 23:07 1548 Dec 30 j 16:12 1548 Dec 30 j 16:12 1548 Dec 30 j 16:26 1549 Jan 06 j 06:34 1549 Jan 16 j 15:26 1549 Apr 28 j 15:23 1549 Jul 08 j 13:44 1549 Jul 08 j 19:13 1549 Sep 16 j 19:38 1549 Dec 25 j 18:28 1550 Jan 11 j 10:27 1550 Jan 11 j 10:26 1550 Jan 11 j 04:22 1550 Jan 28 j 04:12	8° \( \dagger 12'23\) 8° \( \dagger 10'21\) 10° \( \dagger 09'05\) 17° \( \dagger 10'59\) 13° \( \dagger 52'36\) 13° \( \dagger 55'130\) 10° \( \dagger 33'19\) 17° \( \dagger 33'28\) 19° \( \dagger 33'39\) 19° \( \dagger 33'39\) 19° \( \dagger 32'41\) 19° \( \dagger 28'38\) 19° \( \dagger 32'41\) 19° \( \dagger 28'42\) 20° \( \dagger 15'25\) 21° \( \dagger 28'13\) 28° \( \dagger 33'50\) 25° \( \dagger 115'24\) 25° \( \dagger 15'702\) 28° \( \dagger 55'49\) 0° \( \alpha \) 55' \( \dagger 15'55\) 0° \( \alpha 55'58\) 0° \( \alpha 54'10\) 2° \( \alpha 54'43\)	0°27'19 11.06889 AU  0°17'01 9.05038 AU  0°00'28 0°00'27  11.02647 AU  -0°16'11 8.99700 AU  -0°26'41 0°26'42 10.96287 AU
max. Earth dist.  morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set  conjunction minimum elong max. Earth dist. morning rise  retrograde opposition	1541 Oct 13 j 16:43 1541 Oct 15 j 11:22 1541 Oct 30 j 09:27 1542 Feb 06 j 20:37 1542 Apr 16 j 15:58 1542 Apr 16 j 15:26 1542 Jun 26 j 15:17 1542 Oct 08 j 18:38  1542 Oct 25 j 14:06 1542 Oct 25 j 14:07 1542 Oct 25 j 13:53 1542 Nov 11 j 06:00 1542 Nov 24 j 09:04 1543 Feb 18 j 16:07 1543 Apr 28 j 23:21 1543 Apr 29 j 00:33 1543 May 31 j 23:45 1543 Jul 09 j 03:26 1543 Aug 15 j 15:40 1543 Oct 20 j 13:17  1543 Nov 06 j 06:30 1543 Nov 06 j 06:32 1543 Nov 06 j 06:32 1543 Nov 06 j 04:05 1544 Jan 11 j 14:54 1544 Mar 01 j 09:57 1544 Apr 22 j 08:12 1544 May 10 j 03:21	29° \$\overline{\Pmathbb{A}}47'11 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.46'48 8° \$\mathbb{M}\$.53'01 5° \$\mathbb{M}\$.35'17 2° \$\mathbb{M}\$.2'30  11° \$\mathbb{M}\$.31'52 11° \$\mathbb{M}\$.31'52 11° \$\mathbb{M}\$.31'48 13° \$\mathbb{M}\$.30'14 15° \$\mathbb{M}\$. 20° \$\mathbb{M}\$.31'52 17° \$\mathbb{M}\$.14'39 17° \$\mathbb{M}\$.14'25 15° \$\mathbb{M}\$. 13° \$\mathbb{M}\$.53'17 15° \$\mathbb{M}\$. 21° \$\mathbb{M}\$.06'24  23° \$\mathbb{M}\$.04'19	10.83893 AU  2°41'03 8.88833 AU  2°06'57 2°06'57 10.93091 AU  2°28'22 8.97154 AU  1°54'19 11.00456 AU  2°09'57	conjunction minimum elong max. Earth dist. morning rise retrograde opposition min. Earth dist. direct evening set  conjunction minimum elong behind sun begin behind sun end max. Earth dist. desc. node morning rise retrograde opposition min. Earth dist. direct evening set  conjunction min. Earth dist. direct evening set	1547 Dec 20 j 15:06 1547 Dec 20 j 15:07 1547 Dec 20 j 08:11 1548 Jan 06 j 06:12 1548 Apr 16 j 12:57 1548 Jun 26 j 09:41 1548 Jun 26 j 15:38 1548 Sep 05 j 00:03 1548 Dec 14 j 08:00 1548 Dec 30 j 23:07 1548 Dec 30 j 16:12 1548 Dec 30 j 16:12 1548 Dec 30 j 16:26 1549 Jan 06 j 06:34 1549 Jan 16 j 15:26 1549 Jul 08 j 13:44 1549 Jul 08 j 13:44 1549 Jul 08 j 19:13 1549 Sep 16 j 19:38 1549 Dec 25 j 18:28 1550 Jan 11 j 10:27 1550 Jan 11 j 10:27 1550 Jan 11 j 04:22 1550 Jan 28 j 04:12 1550 May 10 j 22:38	8° \( \dagger 12'23\) 8° \( \dagger 10'21\) 10° \( \dagger 09'05\) 17° \( \dagger 10'59\) 13° \( \dagger 55'36\) 13° \( \dagger 55'36\) 13° \( \dagger 33'19\) 17° \( \dagger 33'28\) 19° \( \dagger 33'39\) 19° \( \dagger 33'39\) 19° \( \dagger 32'41\) 19° \( \dagger 28'42\) 20° \( \dagger 15'25\) 21° \( \dagger 28'13\) 28° \( \dagger 34'50\) 25° \( \dagger 15'24\) 25° \( \dagger 14'23\) 21° \( \dagger 55'702\) 28° \( \dagger 55'749\) 0° \( \infty 85'5'58\) 0° \( \infty 55'55\) 0° \( \infty 55'54'10\) 2° \( \infty 54'43\) 10° \( \infty 60'7'33\) 6° \( \infty 46'51\)	0°27'19 11.06889 AU  0°17'01 9.05038 AU  0°00'28 0°00'27  11.02647 AU  -0°16'11 8.99700 AU  -0°26'41 0°26'42 10.96287 AU

direct	1550 Sep 28 j 15:59	3° <b>≈</b> 28'11		conjunction	1557 Apr 08 j 15:11	28° <b>Y</b> 08'43	2014'14
evening set	1551 Jan 06 j 09:26	10°≈32'09		minimum elong	1557 Apr 08 j 15:12	28°Υ08'43	
evening set	1331 Jan 00 J 09.20	10 ≈32 09		max. Earth dist.	1557 Apr 08 j 14:31		10.21416 AU
conjunction	1551 Jan 23 j 02:29	12° <b>≈</b> 31'36	-0°53'06	max. Earth dist.	1557 Apr 08 j 14:51 1557 Apr 23 j 03:50	0° <b>8</b>	10.21410 AC
minimum elong	1551 Jan 23 j 02:27	12°≈31'36	0°53'06	morning rise	1557 Apr 26 j 06:24	0° <b>8</b> 23'30	
max. Earth dist.	1551 Jan 22 j 20:06		10.88050 AU	retrograde	1557 Aug 11 j 08:51	8° <b>8</b> 37'31	
morning rise	1551 Feb 08 j 22:11	12 ≈29 42 14°≈31'54	10.88030 AU	opposition	1557 Oct 18 j 20:52	5° <b>8</b> 08'06	2042144
morning rise	1551 Feb 12 j 22:30	14 ≈31 34 15°≈		min. Earth dist.	1557 Oct 18 j 20:20	_	8.16862 AU
ratragrada	1551 May 23 j 12:37	13 ∞ 21°≈52'13		direct		1° <b>8</b> 42'54	6.10602 AU
retrograde			1020147		1557 Dec 24 j 10:18	9° <b>8</b> 39'10	
opposition	1551 Aug 02 j 07:51	18°≈30'10		evening set	1558 Apr 05 j 10:35	9.039.10	
min. Earth dist.	1551 Aug 02 j 12:53	18°≈29'13	8.83318 AU		1550 A 22:01.56	110055111	2005120
direct	1551 Oct 10 j 14:54	15°≈10'57		conjunction	1558 Apr 23 j 01:56	11° <b>8</b> 55'11	
evening set	1552 Jan 18 j 06:36	22° <b>≈</b> 19'39		minimum elong	1558 Apr 23 j 01:58	11° <b>8</b> 55'12	
	1552 E. 1. 04:01.04	240 - 20142	1017142	max. Earth dist.	1558 Apr 23 j 03:03	_	10.12524 AU
conjunction	1552 Feb 04 j 01:04	24°≈20'43		morning rise	1558 May 10 j 21:31	14° <b>8</b> 12'32	
minimum elong	1552 Feb 04 j 01:02	24°≈20'42		. 1	1558 May 17 j 04:40	15° <b>8</b>	
max. Earth dist.	1552 Feb 03 j 18:24		10.78239 AU	retrograde	1558 Aug 25 j 22:27	22° <b>8</b> 31'45	2027121
morning rise	1552 Feb 20 j 23:03	26°≈22'52		opposition	1558 Nov 01 j 22:06	19° <b>8</b> 01'55	
	1552 Mar 24 j 19:37	0° <b>)</b> (51145		min. Earth dist.	1558 Nov 01 j 20:27	_	8.08996 AU
retrograde	1552 Jun 04 j 07:59	3° <b>)</b> €51'47	1040105	direct	1559 Jan 07 j 07:20	15° <b>8</b> 35'36	
opposition	1552 Aug 13 j 23:28	0° <b>)</b> €28'19		evening set	1559 Apr 20 j 01:30	23° <b>8</b> 39'16	
min. Earth dist.	1552 Aug 14 j 04:31	0° <b>∺</b> 27'21	8.72879 AU				
	1552 Aug 20 j 04:37	30° <b>R</b> ≈		conjunction	1559 May 07 j 21:39	25° <b>8</b> 57'41	
direct	1552 Oct 21 j 17:36	27°≈08'22		minimum elong	1559 May 07 j 21:43	25° <b>8</b> 57'42	
	1552 Dec 19 j 18:26	0° <b>∀</b>		max. Earth dist.	1559 May 08 j 01:00	_	10.05839 AU
evening set	1553 Jan 29 j 11:09	4° <b>)</b> €23'12		morning rise	1559 May 25 j 21:10	28° <b>8</b> 17'12	
					1559 Jun 08 j 14:41	$\Pi$ $\circ$ 0	
conjunction	1553 Feb 15 j 07:39	6° <b>∺</b> 26'13		retrograde	1559 Sep 09 j 14:34	6° <b>Ⅱ</b> 39'00	
minimum elong	1553 Feb 15 j 07:37	6° <b>¥</b> 26′12	1°39'24	opposition	1559 Nov 16 j 02:46	3° <b>Ⅱ</b> 09'06	-2°02'51
max. Earth dist.	1553 Feb 15 j 01:58	6° <b>)</b> €24'28	10.67231 AU	min. Earth dist.	1559 Nov 15 j 23:29	3° <b>Ⅱ</b> 09'47	8.03560 AU
morning rise	1553 Mar 04 j 08:10	8° <b>)</b> 30′28			1560 Jan 03 j 11:55	30°₹ <b>႘</b>	
retrograde	1553 Jun 17 j 11:21	16° <b>)</b> €08'52		direct	1560 Jan 21 j 11:18	29° <b>8</b> 41'50	
opposition	1553 Aug 26 j 20:39	12° <b>)</b> 43′55	-2°14'16		1560 Feb 08 j 08:34	$\Pi$ $\circ 0$	
min. Earth dist.	1553 Aug 27 j 00:46	12° <b>)</b> 43′08	8.61473 AU	evening set	1560 May 03 j 23:27	7° <b>Ⅱ</b> 51'19	
direct	1553 Nov 03 j 03:43	9° <b>∺</b> 23'07					
evening set	1554 Feb 11 j 00:19	16° <b>)</b> 45′12		conjunction	1560 May 21 j 23:47	10° <b>Ⅱ</b> 11'34	-1°26'13
				minimum elong	1560 May 21 j 23:50	10° <b>Ⅱ</b> 11'35	1°26'13
conjunction	1554 Feb 27 j 23:30	18° <b>¥</b> 50'30	-1°57'01	max. Earth dist.	1560 May 22 j 05:15	10° <b>Ⅲ</b> 13'21	10.01799 AU
minimum elong	1554 Feb 27 j 23:28	18° <b>¥</b> 50′29	1°57'01	morning rise	1560 Jun 09 j 02:20	12° <b>Ⅲ</b> 32'34	
max. Earth dist.	1554 Feb 27 j 19:36	18° <b>)</b> 49'17	10.55482 AU	retrograde	1560 Sep 23 j 06:39	20° <b>Ⅲ</b> 54′10	
morning rise	1554 Mar 17 j 02:56	20° <b>升</b> 57′09		opposition	1560 Nov 29 j 09:12	17° <b>Ⅲ</b> 24'34	-1°30'33
retrograde	1554 Jul 01 j 00:16	28° <b>)</b> 45′23		min. Earth dist.	1560 Nov 29 j 04:25	17° <b>Ⅲ</b> 25'33	8.00921 AU
opposition	1554 Sep 08 j 23:42	25° <b>升</b> 19′02	-2°33'14	direct	1561 Feb 03 j 20:35	13° <b>Ⅱ</b> 56′27	
min. Earth dist.	1554 Sep 09 j 02:14	25° <b>升</b> 18'32	8.49585 AU	evening set	1561 May 19 j 02:21	22° <b>Ⅱ</b> 09'51	
direct	1554 Nov 15 j 18:05	21° <b>¥</b> 57'15					
evening set	1555 Feb 23 j 23:26	29° <b>)</b> 27'31		conjunction	1561 Jun 06 j 05:43	24° <b>Ⅲ</b> 31′09	-0°57'46
	1555 Feb 28 j 08:42	$0$ ° $\mathbf{\gamma}$		minimum elong	1561 Jun 06 j 05:46	24° <b>Ⅲ</b> 31′10	0°57'47
				max. Earth dist.	1561 Jun 06 j 12:42	24° <b>Ⅲ</b> 33'26	10.00673 AU
conjunction	1555 Mar 13 j 01:50	1° <b>Ƴ</b> 35'20	-2°09'21	morning rise	1561 Jun 24 j 10:01	26° <b>Ⅱ</b> 52'46	
minimum elong	1555 Mar 13 j 01:48	1° <b>Ƴ</b> 35'19	2°09'21		1561 Jul 20 j 00:04	0°€	
max. Earth dist.	1555 Mar 12 j 23:03	1° <b>Ƴ</b> 34'27	10.43524 AU	retrograde	1561 Oct 07 j 20:22	5° <b>©</b> 11'21	
morning rise	1555 Mar 30 j 08:43	3° <b>Ƴ</b> 44'37		opposition	1561 Dec 13 j 15:39	1° <b>5</b> 42'22	-0°52'33
retrograde	1555 Jul 14 j 20:57	11° <b>Y</b> 42'27		min. Earth dist.	1561 Dec 13 j 10:00	1°5643'33	8.01243 AU
opposition	1555 Sep 22 j 08:45	8° <b>Ƴ</b> 14'50	-2°45'04		1562 Jan 04 j 05:13	30°R <b>Ⅱ</b>	
min. Earth dist.	1555 Sep 22 j 10:02	8° <b>Ƴ</b> 14'35	8.37773 AU	direct	1562 Feb 18 j 08:20	28° <b>Ⅱ</b> 13'36	
direct	1555 Nov 28 j 14:47	4° <b>Ƴ</b> 51'57			1562 Apr 03 j 21:09	0°ಅ	
evening set	1556 Mar 08 j 08:55	12° <b>Y</b> 31'01		evening set	1562 Jun 03 j 07:13	6°\$28'46	
C	J			Č	J.		
conjunction	1556 Mar 25 j 15:03	14° <b>Ƴ</b> 41'31	-2°15'22	conjunction	1562 Jun 21 j 12:03	8°950'09	-0°25'47
minimum elong	1556 Mar 25 j 15:03	14° <b>Υ</b> 41'31		minimum elong	1562 Jun 21 j 12:04	8°950'10	
max. Earth dist.	1556 Mar 25 j 13:09		10.31956 AU	max. Earth dist.	1562 Jun 21 j 19:37		10.02494 AU
morning rise	1556 Apr 12 j 01:56	16° <b>Υ</b> 53'33		morning rise	1562 Jul 09 j 16:28	11°9511'25	
retrograde	1556 Jul 27 j 23:52	25° <b>Υ</b> 00'13		retrograde	1562 Oct 22 j 06:32	19°524'35	
opposition	1556 Oct 05 j 00:02	21° <b>Υ</b> 31'33	-2°48'32	opposition	1562 Dec 27 j 20:36	15°956'30	-0°11'29
min. Earth dist.	1556 Oct 05 j 00:23		8.26654 AU	min. Earth dist.	1562 Dec 27 j 14:58		8.04443 AU
direct					J 1 0		
	1556 Dec 10 i 20:46	18° <b>℃</b> 07'31		direct	1563 Mar 04 i 21 38	12°52.7'18	
evening set	1556 Dec 10 j 20:46 1557 Mar 22 j 04:39	18° <b>Y</b> 07'31 25° <b>Y</b> 55'24		direct asc. node	1563 Mar 04 j 21:38 1563 Apr 11 j 07:45	12°527'18 13°542'30	

evening set	1563 Jun 18 j 10:51	20°5642'00		morning rise	1568 Sep 30 j 12:13	2° <b>£</b> 18′29	
i	15(2 I1 0(:15.15	2200-02121	0007120	retrograde	1569 Jan 08 j 13:51	9° <b>£</b> 41'30	2042112
conjunction	1563 Jul 06 j 15:15	23°502'31	0°07'38	opposition	1569 Mar 17 j 06:50	6° <b>£</b> 21'04	2°43'13
minimum elong	1563 Jul 06 j 15:15	23°502'31	0°07'38	min. Earth dist.	1569 Mar 17 j 04:49	6° <b>£</b> 21'28	8.61670 AU
behind sun begin	1563 Jul 06 j 08:37	23°500'23		direct	1569 May 26 j 10:44 1569 Sep 09 j 01:22	2° <b>£</b> 55'11	
behind sun end max. Earth dist.	1563 Jul 06 j 21:53 1563 Jul 06 j 22:17	23°504'39	10.07020 AII	evening set	1569 Sep 09 J 01:22	10° <b>£</b> 34'53	
	3	25°\$22'31	10.07039 AU	amiumation	1560 Can 26: 05:22	12° <b>≏</b> 39'46	2°15'18
morning rise	1563 Jul 24 j 18:03 1563 Sep 02 j 17:19	23 <b>3</b> 22 31		conjunction minimum elong	1569 Sep 26 j 05:22 1569 Sep 26 j 05:21		2°15'18
ratra ara da	1563 Nov 05 j 10:37	3° <b>Ω</b> 28'29		max. Earth dist.			10.67223 AU
retrograde opposition	1564 Jan 10 j 22:31	0° <b>Ω</b> 01'32	0°29'50		1569 Sep 26 j 07:06 1569 Oct 13 j 04:45	12 <b>22</b> 40 17 14° <b>2</b> 43'16	10.07223 AU
min. Earth dist.	1564 Jan 10 j 17:38	0°Ω01'32	8.10198 AU	morning rise retrograde	1570 Jan 20 j 21:34	21° <b>£</b> 58'49	
iiiii. Eartii dist.	1564 Jan 11 j 06:00	0 8€02 32 30°Rூ	6.10196 AU	opposition	1570 Mar 30 j 01:25	21 <b>⊆</b> 3849 18° <b>⊆</b> 39'24	2°47'42
direct	1564 Mar 18 j 10:29	26°932'12		min. Earth dist.	1570 Mar 30 j 01:23	18° <b>£</b> 39'32	
direct	1564 May 22 j 00:45	20 £32 12 0°Ω		direct	1570 Mai 30 j 00.47	16 <b>2</b> 3932 15° <b>2</b> 14'39	8.72832 AU
evening set	1564 Jul 02 j 10:29	4° <b>Ω</b> 44'32		evening set	1570 Sep 21 j 16:37	22° <b>£</b> 46'09	
evening set	1304 Jul 02 j 10.29	4 0644 32		evening set	1370 Sep 21 j 10.37	22 ==40 09	
conjunction	1564 Jul 20 j 12:47	7° <b>Ω</b> 03'21	0°40'06	conjunction	1570 Oct 08 j 16:34	24° <b>≏</b> 48'33	2°16'05
minimum elong	1564 Jul 20 j 12:46	7°Ω03'20	0°40'06	minimum elong	1570 Oct 08 j 16:34	24° <b>Ω</b> 48'33	2°16'05
max. Earth dist.	1564 Jul 20 j 18:33		10.13908 AU	max. Earth dist.	1570 Oct 08 j 16:34		10.77977 AU
morning rise	1564 Aug 07 j 12:28	9° <b>Ω</b> 21'18	10.13908 AU	morning rise	1570 Oct 08 j 10:34 1570 Oct 25 j 12:25	24° <b>⊆</b> 4833	10.77977 AU
morning rise				morning rise	•	20 <b>=</b> 4942 0°M	
	1564 Sep 28 j 00:31	15° <b>Ω</b>			1570 Nov 23 j 01:30		
retrograde	1564 Nov 18 j 07:17	17° <b>Ω</b> 19'02		retrograde	1571 Feb 01 j 23:07	3°M58'51	2044140
•.•	1565 Jan 09 j 23:07	15°R <b>Ω</b>	1000141	opposition	1571 Apr 11 j 15:00	0°M40'15	2°44'40
opposition	1565 Jan 23 j 20:16	13° <b>£</b> 53′25	1°08'41	min. Earth dist.	1571 Apr 11 j 14:54	0°M40'16	8.83092 AU
min. Earth dist.	1565 Jan 23 j 16:02	13° <b>Ω</b> 54'17	8.18081 AU		1571 Apr 20 j 12:37	30° <b>₹</b> Ω	
direct	1565 Apr 01 j 21:40	10° <b>Ω</b> 24'17		direct	1571 Jun 21 j 12:49	27° <b>£</b> 16'40	
	1565 Jun 17 j 00:10	15° <b>Ω</b>			1571 Aug 20 j 02:18	0°M	
evening set	1565 Jul 17 j 03:43	18° <b>Ω</b> 32'33		evening set	1571 Oct 03 j 22:18	4°M40'18	
conjunction	1565 Aug 04 j 02:35	20° <b>Ω</b> 49'01	1°09'46	conjunction	1571 Oct 20 j 19:05	6°M40'37	2°10'57
minimum elong	1565 Aug 04 j 02:32	20°Ω49'00	1°09'47	minimum elong	1571 Oct 20 j 19:06	6°M40'38	2°10'56
max. Earth dist.	1565 Aug 04 j 07:17	20°Ω50'31		max. Earth dist.	1571 Oct 20 j 18:23		10.87584 AU
morning rise	1565 Aug 21 j 21:56	23° <b>Ω</b> 04'20	10.22002 110	morning rise	1571 Nov 06 j 12:11	8°M39'53	10.07301710
morning risc	1565 Oct 31 j 14:55	0° m		morning risc	1572 Jan 15 j 12:40	15°M	
retrograde	1565 Dec 01 j 19:14	0° Mp 53'19		retrograde	1572 Feb 13 j 21:15	15°M43'54	
renograde	1566 Jan 02 j 08:51	0 iių33 19 30°RΩ		renograde	1572 Mar 14 j 18:51	15 11043 34 15°RM	
	-	30 <b>₹82</b> 27° <b>Ω</b> 29'05	1942140				2024145
opposition	1566 Feb 06 j 13:14		1°42'49	opposition	1572 Apr 23 j 00:05	12°M25'52	2°34'45
min. Earth dist.	1566 Feb 06 j 09:15	27° <b>Ω</b> 29'54	8.27676 AU	min. Earth dist.	1572 Apr 23 j 00:16		8.91964 AU
direct	1566 Apr 16 j 04:51	24° <b>Ω</b> 00′28		direct	1572 Jul 03 j 04:13	9°M03′27	
	1566 Jul 14 j 10:27	0° m/y			1572 Oct 03 j 03:39	15°M	
evening set	1566 Jul 31 j 12:35	2° Mp 03'06		evening set	1572 Oct 14 j 20:07	16° <b>™</b> 19'56	
conjunction	1566 Aug 18 j 07:01	4° Mp 16'45	1°35'02	conjunction	1572 Oct 31 j 14:31	18°M18'38	2°00'27
minimum elong	1566 Aug 18 j 06:58	4° Mp 16′44	1°35'02	minimum elong	1572 Oct 31 j 14:33	18° <b>™</b> 18'39	2°00'26
max. Earth dist.	1566 Aug 18 j 11:07	4° Mp 18'03	10.32933 AU	max. Earth dist.	1572 Oct 31 j 13:33	18° <b>M</b> ₊18'21	10.95654 AU
morning rise	1566 Sep 04 j 21:13	6° M 29'04		morning rise	1572 Nov 17 j 05:36	20°M16'26	
retrograde	1566 Dec 15 j 01:01	14° Mp 09'07		retrograde	1573 Feb 24 j 17:19	27° <b>M</b> 16'37	
opposition	1567 Feb 20 j 00:48	10° Mp 46'15	2°10'34	opposition	1573 May 05 j 05:32	23°M59'02	2°18'44
min. Earth dist.	1567 Feb 19 j 20:48	10° m 47'03	8.38511 AU	min. Earth dist.	1573 May 05 j 06:39	23°M58'49	8.99131 AU
direct	1567 Apr 30 j 05:25	7° m 18'23		direct	1573 Jul 15 j 11:29	20°M37'42	
evening set	1567 Aug 14 j 11:32	15° Mp 14'04		evening set	1573 Oct 26 j 11:34	27°M48'02	
	15/5/6	1,000 0 0 0 0 0	105442		1572.) 12:0:0:0	200W /	1045115
conjunction	1567 Sep 01 j 01:07	17° <b>m</b> 24'44		conjunction	1573 Nov 12 j 04:08	29°M45'33	1°45'15
minimum elong	1567 Sep 01 j 01:04	17° <b>m</b> 24'43	1°54'44	minimum elong	1573 Nov 12 j 04:11	29°M45'33	1°45'14
max. Earth dist.	1567 Sep 01 j 05:05		10.44155 AU	max. Earth dist.	1573 Nov 12 j 02:07		11.01893 AU
morning rise	1567 Sep 18 j 09:57	19° <b>m</b> 33'57			1573 Nov 14 j 05:03	0° <b>∡</b> 7	
retrograde	1567 Dec 27 j 23:34	27° Mp 05'13		morning rise	1573 Nov 28 j 18:08	1° <b>∡</b> ⁴42'21 –	
opposition	1568 Mar 04 j 06:41	23° <b>m</b> 43'37		retrograde	1574 Mar 08 j 09:38	8° <b>≯</b> 40'11	
min. Earth dist.	1568 Mar 04 j 03:20	23° <b>m</b> 44'17	8.50039 AU	opposition	1574 May 17 j 08:37	5° <b>₹</b> 22'49	1°57'28
direct	1568 May 12 j 23:08	20° Mp 16'42		min. Earth dist.	1574 May 17 j 11:12	5° <b>₹</b> 22'20	9.04345 AU
evening set	1568 Aug 26 j 23:45	28° Mp 04'35		direct	1574 Jul 27 j 14:29	2° <b>₹</b> 02'28	
	1568 Sep 11 j 16:43	0° <b>⊽</b>		evening set	1574 Nov 06 j 22:05	9° <b>∡</b> 07'50	
conjunction	1568 Sep 13 j 08:27	0° <b>£</b> 12'16	2°08'13	conjunction	1574 Nov 23 j 13:24	11° <b>҂</b> 04'33	1°26'03
minimum elong	1568 Sep 13 j 08:24		2°08'14	minimum elong	1574 Nov 23 j 13:27	11° <b>✓</b> 04'34	1°26'03
max. Earth dist.	1568 Sep 13 j 11:45		10.55777 AU	max. Earth dist.	1574 Nov 23 j 19:41		11.06086 AU
man. Lui ui uist.	1000 bop 10 J 11.40	J <b>—</b> 131/	10.00111 AU	max. Darm dist.	15, 1110, 25 J 07.71	11 7 0341	11.00000 AU

morning rise	1574 Dec 10 j 03:09	13° <b>∡</b> 00'49		direct	1580 Oct 04 j 17:42	10° <b>≈</b> 15′01	
retrograde	1575 Mar 20 j 02:44	19° <b>₹</b> 57'52			1580 Dec 22 j 15:02	15° <b>≈</b>	
opposition	1575 May 29 j 10:00	16° <b>∡</b> ¹40'28	1°31'50	evening set	1581 Jan 12 j 09:03	17° <b>≈</b> 20'37	
min. Earth dist.	1575 May 29 j 13:16	16° <b>∡</b> ³39'52	9.07423 AU				
direct	1575 Aug 08 j 14:54	13° <b>∡</b> ¹20'58		conjunction	1581 Jan 29 j 02:48	19° <b>≈</b> 20'39	-1°07'01
evening set	1575 Nov 18 j 05:33	20° <b>҂</b> ¹22'40		minimum elong	1581 Jan 29 j 02:45	19° <b>≈</b> 20'38	1°07'01
<b>3</b>	,			max. Earth dist.	1581 Jan 28 j 22:32		10.85231 AU
conjunction	1575 Dec 04 j 20:21	22° <b>х</b> 19'03	1°03'37	morning rise	1581 Feb 14 j 23:26	21°≈21'37	10.00251110
·		22°×19'03	1°03'38	-			
minimum elong	1575 Dec 04 j 20:23			retrograde	1581 May 29 j 23:54	28°≈45'32	1025105
max. Earth dist.	1575 Dec 04 j 16:14		11.08079 AU	opposition	1581 Aug 08 j 17:18	25° <b>≈</b> 23'22	
morning rise	1575 Dec 21 j 10:17	24° <b>⋌</b> 15'12		min. Earth dist.	1581 Aug 08 j 20:33		8.80415 AU
	1576 Feb 20 j 22:18	0°₹		direct	1581 Oct 16 j 17:45	22° <b>≈</b> 04'31	
retrograde	1576 Mar 30 j 20:06	1°る12'58		evening set	1582 Jan 24 j 09:36	29° <b>≈</b> 15′18	
	1576 May 09 j 19:53	30°₽ <b>⋌</b>			1582 Jan 30 j 14:49	0° <b>∀</b>	
opposition	1576 Jun 09 j 10:31	27° <b>₹</b> ¹55'19	1°02'48				
min. Earth dist.	1576 Jun 09 j 13:48	27° <b>х</b> 54'43	9.08248 AU	conjunction	1582 Feb 10 j 05:00	1° <b>)</b> 17′03	-1°30'05
direct	1576 Aug 19 j 10:54	24° <b>х</b> 36′30		minimum elong	1582 Feb 10 j 04:57	1° <b>)</b> €17'03	
direct	1576 Nov 14 j 05:13	0°る		max. Earth dist.	1582 Feb 10 j 00:40		10.75239 AU
. ,	-	0 3 1° <b>る</b> 35'58			-	3° <b>)</b> 19'57	10.73239 AU
evening set	1576 Nov 28 j 11:44	1.033.38		morning rise	1582 Feb 27 j 04:00		
				retrograde	1582 Jun 11 j 23:37	10° <b>)</b> 52'40	
conjunction	1576 Dec 15 j 02:29	3° <b>る</b> 32'23	0°38'46	opposition	1582 Aug 21 j 11:11	7° <b>∺</b> 29'08	
minimum elong	1576 Dec 15 j 02:30	3° <b>る</b> 32'23	0°38'47	min. Earth dist.	1582 Aug 21 j 14:20	7° <b>¥</b> 28'32	8.69847 AU
max. Earth dist.	1576 Dec 14 j 22:33	3° <b>る</b> 31'14	11.07787 AU	direct	1582 Nov 07 23:09	4° <b>)</b> €09'32	
morning rise	1576 Dec 31 j 16:58	5° <b>る</b> 28'47		evening set	1583 Feb 15 18:06	11° <b>)</b> €26'48	
retrograde	1577 Apr 11 j 17:20	12° <b>る</b> 28'54					
opposition	1577 Jun 21 j 11:44	9° <b>ට</b> 10'46	0°31'20	conjunction	1583 Mar 04 15:41	13° <b>)</b> (30′36	-1°49'35
min. Earth dist.	1577 Jun 21 j 15:04	9° <b>ට</b> 10'09	9.06789 AU	minimum elong	1583 Mar 04 15:39	13° <b>)</b> (30'35	
direct	1577 Aug 31 j 06:13	5° <b>る</b> 52'25	7.00767 AC	max. Earth dist.	1583 Mar 04 10:52		10.64129 AU
							10.04129 AU
evening set	1577 Dec 09 j 18:15	12° <b>る</b> 51'07		morning rise	1583 Mar 21 17:35	15° <b>)</b> (35′43	
				retrograde	1583 Jul 05 07:14	23° <b>)</b> 17′49	
conjunction	1577 Dec 26 j 09:10	14° <b>♂</b> 47'56	0°12'23	opposition	1583 Sep 13 10:38	19° <b>¥</b> 52'54	-2°25'13
minimum elong	1577 Dec 26 j 09:10	14° <b>る</b> 47'56	0°12'22	min. Earth dist.	1583 Sep 13 14:03	19° <b>升</b> 52′15	8.58349 AU
behind sun begin	1577 Dec 26 j 04:29	14° <b>⋜</b> 46'34		direct	1583 Nov 20 09:56	16° <b>)</b> 32′20	
behind sun end	1577 Dec 26 j 13:50	14° <b>පි</b> 49'17		evening set	1584 Feb 28 11:40	23° <b>)</b> 57'14	
max. Earth dist.	1577 Dec 26 j 04:31	14°₹46'34	11.05225 AU	C			
morning rise	1578 Jan 12 j 00:44	16° <b>පි</b> 44'59		conjunction	1584 Mar 16 12:07	26° <b>)</b> €03'23	-2°04'22
retrograde	1578 Apr 23 j 17:42	23° <b>る</b> 48'57		minimum elong	1584 Mar 16 12:05	26°\(\text{03'22}\)	
•		23 <b>3</b> 4837 21° <b>3</b> 44'59		max. Earth dist.	1584 Mar 16 07:37		10.52303 AU
desc. node	1578 Jun 16 j 06:05		0001122				10.52303 AU
opposition	1578 Jul 03 j 14:36	20° <b>ろ</b> 30'06		morning rise	1584 Apr 02 17:14	28° <b>升</b> 10′58	
min. Earth dist.	1578 Jul 03 j 18:45	20° <b>る</b> 29'21	9.03110 AU		1584 Apr 18 00:34	$0^{\circ}\Upsilon$	
direct	1578 Sep 11 j 23:31	17°る12'00		retrograde	1584 Jul 17 21:44	6° <b>Ƴ</b> 02'44	
evening set	1578 Dec 21 j 03:01	24° <b>る</b> 11'29		opposition	1584 Sep 25 15:56	2° <b>Y</b> 36′28	-2°40'22
				min. Earth dist.	1584 Sep 25 19:03	2° <b>Ƴ</b> 35'51	8.46398 AU
conjunction	1579 Jan 06 j 18:23	26° <b>පි</b> 09'01	-0°14'46		1584 Nov 02 18:39	30° <b>₽</b> ₩	
minimum elong	1579 Jan 06 j 18:23	26° <b>පි</b> 09'01		direct	1584 Dec 02 04:02	29° <b>)</b> 14'47	
behind sun begin	1579 Jan 06 j 15:22	26° <b>⋜</b> 08'08			1584 Dec 31 03:06	0°Υ	
behind sun end	,	26° <b>පි</b> 09'54		ovening set		6° <b>Υ</b> 48'10	
max. Earth dist.	1579 Jan 06 j 21:24 1579 Jan 06 j 12:51		11.00494 AU	evening set	1585 Mar 12 15:07	0 1 40 10	
	-		11.00494 AU		1505 16 20 10 12	000056155	2012120
morning rise	1579 Jan 23 j 11:30	28° <b>る</b> 07'04		conjunction	1585 Mar 29 19:13	8° <b>Y</b> 56'57	
	1579 Feb 09 j 05:13	0° <b>≈</b>		minimum elong	1585 Mar 29 19:12	8° <b>Y</b> 56'57	
retrograde	1579 May 05 j 20:11	5°≈16'22		max. Earth dist.	1585 Mar 29 16:13		10.40338 AU
opposition	1579 Jul 15 j 19:47	1° <b>≈</b> 56'36	-0°34'41	morning rise	1585 Apr 16 03:59	11° <b>Ƴ</b> 07'13	
min. Earth dist.	1579 Jul 16 j 00:25	1° <b>≈</b> 55'45	8.97347 AU	retrograde	1585 Jul 31 19:46	19° <b>Ƴ</b> 08'16	
	1579 Aug 12 j 19:59	30°Ŗ₹		opposition	1585 Oct 09 03:18	15° <b>Ƴ</b> 40'44	-2°47'46
direct	1579 Sep 23 j 18:58	28° <b>る</b> 38'28		min. Earth dist.	1585 Oct 09 05:06	15° <b>Ƴ</b> 40'22	8.34647 AU
	1579 Nov 03 j 13:13	0° <b>≈</b>		direct	1585 Dec 15 05:59	12° <b>Υ</b> 17'49	
evening set	1580 Jan 01 j 15:25	5° <b>≈</b> 40'17		evening set	1586 Mar 26 04:54	20° <b>Υ</b> 00'01	
evening set	1300 Jan 01 j 13.23	3 ~ 40 17		evening set	1300 Wai 20 04.34	20 1 00 01	
	1500 I. 10:07 40	7020155	0941122	i <i>(</i> *	1506 A 12 12 15	2200011126	2015122
conjunction	1580 Jan 18 j 07:48	7°≈38'55		conjunction	1586 Apr 12 13:17	22°Υ11'36	
minimum elong	1580 Jan 18 j 07:46	7° <b>≈</b> 38'54		minimum elong	1586 Apr 12 13:17	22° <b>Y</b> 11'36	
max. Earth dist.	1580 Jan 18 j 02:33		10.93754 AU	max. Earth dist.	1586 Apr 12 11:57		10.28927 AU
morning rise	1580 Feb 04 j 02:34	9° <b>≈</b> 38'16		morning rise	1586 Apr 30 02:08	24° <b>Y</b> 24'39	
	1580 Mar 29 j 00:00	15° <b>≈</b>			1586 Jun 20 07:06	$9^{\circ}$ 8	
retrograde		16° <b>≈</b> 54'17		retrograde	1586 Aug 15 01:38	2° <b>8</b> 33'51	
-	1580 May 17 j 06:51	10 ~541/		1011081444	1300 1145 13 01.30	- 00001	
	1580 Jul 07 j 04:44	10 ≈3417 15°R≈		101108111110	1586 Oct 11 08:46	30°RY	
opposition	1580 Jul 07 j 04:44	15°R <b>≈</b>	-1°06'58		1586 Oct 11 08:46	30° <b>₹Ƴ</b>	-2°46'21
opposition min. Earth dist.	• •	15°R≈ 13°≈33'24	-1°06'58 8.89693 AU	opposition min. Earth dist.		30° <b>₹Υ</b> 29° <b>Υ</b> 05'14	-2°46'21 8.23781 AU

direct	1586 Dec 28 14:03	25° <b>Ƴ</b> 41'01		asc. node	1592 Oct 13 01:23	26°524'11	
	1587 Mar 10 08:11	$_{0\circ}$ 8		retrograde	1592 Nov 08 01:16	27° <b>©</b> 01'50	
evening set	1587 Apr 09 05:05	3° <b>8</b> 31'52		opposition	1593 Jan 13 15:10	23°533'47	0°10'08
				min. Earth dist.	1593 Jan 13 10:05	23°534'50	8.06140 AU
conjunction	1587 Apr 26 18:04	5° <b>8</b> 46'15	-2°10'24	direct	1593 Mar 21 23:18	20° <b>©</b> 03'58	
minimum elong	1587 Apr 26 18:06	5° <b>8</b> 46'15	2°10'24	evening set	1593 Jul 05 16:18	28° <b>©</b> 17'47	
max. Earth dist.	1587 Apr 26 18:07	5° <b>8</b> 46'16	10.18751 AU		1593 Jul 18 23:34	$0^{\circ}\Omega$	
morning rise	1587 May 14 11:14	8° <b>8</b> 02'01					
	1587 Jul 21 21:12	15° <b>8</b>		conjunction	1593 Jul 23 20:04	0° <b>Ω</b> 37'39	0°24'42
retrograde	1587 Aug 29 12:57	16° <b>8</b> 17'33		minimum elong	1593 Jul 23 20:03	0° <b>Ω</b> 37'38	0°24'42
	1587 Oct 07 10:46	15° <b>₹</b> ႘		max. Earth dist.	1593 Jul 24 02:37	0° <b>Ω</b> 39'45	10.09189 AU
opposition	1587 Nov 05 18:23	12° <b>8</b> 48'08	-2°35'31	morning rise	1593 Aug 10 21:31	2° <b>Ω</b> 56'48	
min. Earth dist.	1587 Nov 05 17:27	12° <b>8</b> 48'20	8.14455 AU	retrograde	1593 Nov 22 01:30	10° <b>Ω</b> 58'54	
direct	1588 Jan 11 05:49	9° <b>8</b> 22'35		opposition	1594 Jan 27 14:47	7° <b>Ω</b> 32'04	0°50'28
	1588 Apr 03 09:07	15° <b>8</b>		min. Earth dist.	1594 Jan 27 09:33	7° <b>Ω</b> 33'08	8.12810 AU
evening set	1588 Apr 22 14:39	17° <b>8</b> 21'27		direct	1594 Apr 05 10:44	4° <b>Ω</b> 02'16	
	•			evening set	1594 Jul 20 12:51	12° <b>Ω</b> 12'56	
conjunction	1588 May 10 08:21	19° <b>8</b> 38'25	-1°57'41	Č			
minimum elong	1588 May 10 08:24	19° <b>8</b> 38'26	1°57'42	conjunction	1594 Aug 07 13:47	14° <b>Ω</b> 30'45	0°55'57
max. Earth dist.	1588 May 10 09:26		10.10438 AU	minimum elong	1594 Aug 07 13:44	14° <b>Ω</b> 30'44	0°55'57
morning rise	1588 May 28 05:47	21° <b>8</b> 56'37		max. Earth dist.	1594 Aug 07 20:15		10.16995 AU
8	1588 Aug 25 20:01	0°II			1594 Aug 11 09:01	15°Ω	
retrograde	1588 Sep 12 02:59	0° <b>I</b> 16'11		morning rise	1594 Aug 25 11:18	16° <b>Ω</b> 47'31	
retrograde	1588 Sep 29 08:25	30°R <b>8</b>		retrograde	1594 Dec 05 18:35	24°Ω41'06	
opposition	1588 Nov 18 20:31	26° <b>8</b> 46'19	-2°15'10	opposition	1595 Feb 10 10:09	21°Ω15'38	1°27'06
min. Earth dist.	1588 Nov 18 18:49		8.07253 AU	min. Earth dist.	1595 Feb 10 10:05 1595 Feb 10 05:21	21°Ω16'36	8.21650 AU
direct	1589 Jan 24 05:30	23° <b>8</b> 19'29	8.07233 AU	direct	1595 Apr 19 18:16	17° <b>Ω</b> 46'13	6.21030 AU
direct	1589 Apr 26 00:17	0° <b>Ⅱ</b>		evening set	1595 Aug 04 01:43	25° <b>Ω</b> 51'55	
evening set	1589 May 07 08:08	1° <b>Ⅱ</b> 25'08		evening set	1393 Aug 04 01.43	23 6631 33	
evening set	1369 May 07 06.06	1 1123 08		aaniumatian	1505 Aug 21 22:22	28° <b>Ω</b> 07'06	1°23'29
conjunction	1589 May 25 06:19	3° <b>Ⅱ</b> 44'18	1927!40	conjunction minimum elong	1595 Aug 21 22:32 1595 Aug 21 22:29	28° <b>Ω</b> 07'05	
•	1589 May 25 06:23	3° <b>∏</b> 44'19		max. Earth dist.	-		1 23 29 10.26701 AU
minimum elong max. Earth dist.	•		1 3 / 30 10.04508 AU	max. Earm dist.	1595 Aug 22 04:18		10.20701 AU
	1589 May 25 08:32	5 <b>П</b> 4301 6° <b>П</b> 04'25	10.04308 AU		1595 Sep 05 19:52	0° m/21100	
morning rise	1589 Jun 12 07:29	6°Щ0423 14°Щ25'20		morning rise	1595 Sep 08 15:15	0° Mp 21'00	
retrograde	1589 Sep 26 17:50		1046120	retrograde	1595 Dec 19 04:19	8° Mp 05'37	1050105
opposition	1589 Dec 03 01:15	10° <b>II</b> 55'25		opposition	1596 Feb 24 00:20	4° Mp 41'37	1°58'05
min. Earth dist.	1589 Dec 02 22:56	10° <b>I</b> 55'53	8.02627 AU	min. Earth dist.	1596 Feb 23 20:17	4° Mp 42'26	8.32130 AU
direct	1590 Feb 07 11:41	7° <b>Ⅱ</b> 27'26		direct	1596 May 02 21:23	1° Mp 12'55	
evening set	1590 May 22 07:51	15° <b>Ⅱ</b> 38'15		evening set	1596 Aug 17 05:29	9° Mp 12'15	
agnismation	1500 Jun 00 00:44	17° <b>II</b> 58'57	1011151	amiumatian	1506 Cam 02 21:20	110 m 24/20	1045157
conjunction	1590 Jun 09 09:44 1590 Jun 09 09:47	17 <b>II</b> 58 57		conjunction	1596 Sep 03 21:28 1596 Sep 03 21:24	11° Mp 24'29	
minimum elong			10.01323 AU	minimum elong max. Earth dist.	1	11° Mp 24'28	1°45'57 10.37747 AU
max. Earth dist.	1590 Jun 09 13:07 1590 Jun 27 13:27	20° <b>I</b> I20'13	10.01323 AU		1596 Sep 04 01:58	~	10.37747 AU
morning rise		28° <b>I</b> I39'45		morning rise	1596 Sep 21 09:01 1596 Dec 31 04:54	13° Mp 35'18	
retrograde	1590 Oct 11 07:20		1011112	retrograde		21° Mp 10'56	2022101
opposition min. Earth dist.	1590 Dec 17 06:52	25° <b>Ⅱ</b> 10'09	8.00862 AU	opposition	1597 Mar 08 08:44	17° Mp 48'25	2°22'01
	1590 Dec 17 03:46	23° <b>I</b> I 10'47 21° <b>I</b> I 41'15	8.00802 AU	min. Earth dist.	1597 Mar 08 05:17	17° Mp 49'06	8.43654 AU
direct	1591 Feb 21 21:40	21° <b>Ц</b> 41°13 29° <b>Ц</b> 55'14		direct	1597 May 16 19:25	14° Mp 20'42	
evening set	1591 Jun 06 11:05 1591 Jun 07 02:00	29° <b>Ц</b> 33°14 0° <b>©</b>		evening set	1597 Aug 30 22:59	22° Mp 12'40	
	1591 Jun 07 02:00	0-98			1507 0 17 00-50	249m-21150	2002127
conjunction	1591 Jun 24 15:18	2° <b>©</b> 16'37	00/11/22	conjunction minimum elong	1597 Sep 17 09:58 1597 Sep 17 09:56	24° m/21'50 24° m/21'50	2°02'27 2°02'28
				_	•		
minimum elong	1591 Jun 24 15:20	2°516'38		max. Earth dist.	1597 Sep 17 13:17		10.49525 AU
max. Earth dist.	1591 Jun 24 19:53		10.01075 AU	morning rise	1597 Oct 04 16:23	26° m 29'35	
morning rise	1591 Jul 12 20:01	4°938'08		. 1	1597 Nov 04 13:21	0∘ <b>⊽</b>	
retrograde	1591 Oct 25 18:43	12°953'47	0021122	retrograde	1598 Jan 12 22:00	3° <b>£</b> 56'42	2020111
opposition	1591 Dec 31 12:05	9°524'49		opposition	1598 Mar 21 11:33	0° <b>£</b> 35'34	
min. Earth dist.	1591 Dec 31 07:56	9°925'40	8.02065 AU	min. Earth dist.	1598 Mar 21 08:16	0° <b>ჲ</b> 36'13	8.55597 AU
direct	1592 Mar 07 10:17	5°955'17		3:4	1598 Mar 29 02:26	30°RM)	
evening set	1592 Jun 20 14:44	14° <b>©</b> 10'16		direct	1598 May 30 11:11	27° m 09'04	
	1500 1 1 00 10 20	1.00001100	0000120		1598 Jul 29 15:06	0° <b>⊽</b>	
conjunction	1592 Jul 08 19:38	16°531'22		evening set	1598 Sep 13 05:42	4° <b>£</b> 53'00	
minimum elong	1592 Jul 08 19:39	16°931'22	0°08'30		1500 0 20 11 55	(0.0 5011.5	2012/26
behind sun begin	1592 Jul 08 13:15	16°529'18		conjunction	1598 Sep 30 11:57	6° <b>Ω</b> 59'15	
behind sun end	1592 Jul 09 02:02	16°933'25	10.027/2 ***	minimum elong	1598 Sep 30 11:55	6° <b>£</b> 59'14	
max. Earth dist.	1592 Jul 09 01:26		10.03762 AU	max. Earth dist.	1598 Sep 30 14:56		10.61427 AU
morning rise	1592 Jul 26 23:35	18° <b>©</b> 52'09		morning rise	1598 Oct 17 13:31	9° <b>£</b> 04'05	

retrograde	1599 Jan 25 10:49	16° <b>≏</b> 23'23	
opposition	1599 Apr 03 08:55	13° <b>ഫ</b> 03'32	2°46'23
min. Earth dist.	1599 Apr 03 06:05	13° <b>≏</b> 04'04	8.67368 AU
direct	1599 Jun 12 18:14	9° <b>≏</b> 38'21	
evening set	1599 Sep 26 02:03	17° <b>≙</b> 14'01	
conjunction	1599 Oct 13 04:04	19° <b>≏</b> 17'38	2°16'21
minimum elong	1599 Oct 13 04:04	19° <b>≙</b> 17'38	2°16'21
max. Earth dist.	1599 Oct 13 06:35	19° <b>≙</b> 18'24	10.72892 AU
morning rise	1599 Oct 30 01:29	21° <b>≏</b> 19'55	
retrograde	1600 Feb 06 16:13	28° <b>≏</b> 32'16	
opposition	1600 Apr 15 01:02	25° <b>≙</b> 13'30	2°46'51
min. Earth dist.	1600 Apr 14 23:28	25° <b>≙</b> 13'48	8.78434 AU
direct	1600 Jun 24 17:49	21° <b>≏</b> 49'40	
evening set	1600 Oct 07 12:45	29° <b>≙</b> 17'16	
	1600 Oct 13 12:57	$0^{\circ}$ M	
conjunction	1600 Oct 24 11:07	1°M18'36	2°13'58
minimum elong	1600 Oct 24 11:07	1°M18'36	2°13'58
max. Earth dist.	1600 Oct 24 12:15	1°M18'56	10.83411 AU
morning rise	1600 Nov 10 05:23	3° <b>™</b> 18'45	
retrograde	1601 Feb 17 16:12	10°M25'18	
opposition	1601 Apr 27 12:39	7° <b>™</b> 07'24	2°40'06
min. Earth dist.	1601 Apr 27 12:46	7° <b>IL</b> 07'23	8.88310 AU
direct	1601 Jul 07 12:16	3°M44'50	
evening set	1601 Oct 19 14:52	11°M04'56	
conjunction	1601 Nov 05 10:14	13°M04'22	2°05'56
minimum elong	1601 Nov 05 10:16	13°ML04'22	2°05'55
max. Earth dist.	1601 Nov 05 09:19	13°M04'05	10.92536 AU
	1601 Nov 21 16:38	15°M	
morning rise	1601 Nov 22 02:16	15°M02'49	
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