

opposition	9100 Feb 24 16:25	8° $\mathbb{M}$ 07'52	-0°41'56	conjunction	9105 Nov 06 15:21	20° $\mathbb{M}$ 32'30	1°37'19
min. Earth dist.	9100 Feb 24 12:38	8° $\mathbb{M}$ 08'37	8.50065 AU	minimum elong	9105 Nov 06 15:18	20° $\mathbb{M}$ 32'29	1°37'31
direct	9100 May 03 09:21	4° $\mathbb{M}$ 45'06		max. Earth dist.	9105 Nov 06 11:48	20° $\mathbb{M}$ 31'23	10.27437 AU
evening set	9100 Aug 12 08:29	12° $\mathbb{M}$ 15'31		morning rise	9105 Nov 24 12:00	22° $\mathbb{M}$ 47'24	
					9106 Feb 08 04:02	0° $\mathbb{Z}$	
conjunction	9100 Aug 29 21:48	14° $\mathbb{M}$ 25'25	-0°21'18	retrograde	9106 Mar 08 09:48	0° $\mathbb{Z}$ 43'00	
minimum elong	9100 Aug 29 21:49	14° $\mathbb{M}$ 25'25	0°21'24		9106 Apr 05 20:11	30° $\mathbb{R}$ $\mathbb{M}$	
max. Earth dist.	9100 Aug 30 02:08	14° $\mathbb{M}$ 26'45	10.47092 AU	opposition	9106 May 14 18:09	27° $\mathbb{M}$ 16'56	2°09'42
morning rise	9100 Sep 16 14:23	16° $\mathbb{M}$ 36'21		min. Earth dist.	9106 May 14 20:52	27° $\mathbb{M}$ 16'23	8.27226 AU
retrograde	9100 Dec 30 21:05	24° $\mathbb{M}$ 24'55		direct	9106 Jul 21 12:01	23° $\mathbb{M}$ 49'45	
opposition	9101 Mar 09 19:02	20° $\mathbb{M}$ 58'13	-0°09'48		9106 Oct 19 06:22	0° $\mathbb{Z}$	
min. Earth dist.	9101 Mar 09 15:54	20° $\mathbb{M}$ 58'50	8.44181 AU	evening set	9106 Nov 03 02:20	1° $\mathbb{Z}$ 47'48	
direct	9101 May 16 06:39	17° $\mathbb{M}$ 34'35					
asc. node	9101 Jun 29 14:42	19° $\mathbb{M}$ 17'00		conjunction	9106 Nov 20 22:37	4° $\mathbb{Z}$ 02'39	1°50'05
evening set	9101 Aug 25 18:36	25° $\mathbb{M}$ 10'00		minimum elong	9106 Nov 20 22:35	4° $\mathbb{Z}$ 02'38	1°50'20
				max. Earth dist.	9106 Nov 20 18:15	4° $\mathbb{Z}$ 01'16	10.27148 AU
conjunction	9101 Sep 12 10:54	27° $\mathbb{M}$ 21'29	0°05'20	morning rise	9106 Dec 08 17:36	6° $\mathbb{Z}$ 17'10	
minimum elong	9101 Sep 12 10:54	27° $\mathbb{M}$ 21'29	0°05'18	retrograde	9107 Mar 22 04:17	14° $\mathbb{Z}$ 11'07	
behind sun begin	9101 Sep 12 03:54	27° $\mathbb{M}$ 19'20		opposition	9107 May 28 08:02	10° $\mathbb{Z}$ 45'43	2°21'52
behind sun end	9101 Sep 12 17:54	27° $\mathbb{M}$ 23'39		min. Earth dist.	9107 May 28 11:34	10° $\mathbb{Z}$ 45'00	8.27680 AU
max. Earth dist.	9101 Sep 12 13:38	27° $\mathbb{M}$ 22'18	10.41412 AU	direct	9107 Aug 04 07:02	7° $\mathbb{Z}$ 18'14	
morning rise	9101 Sep 30 06:04	29° $\mathbb{M}$ 33'54		evening set	9107 Nov 17 09:56	15° $\mathbb{Z}$ 17'55	
	9101 Oct 03 19:59	0° $\mathbb{Z}$					
retrograde	9102 Jan 13 10:49	7° $\mathbb{Z}$ 25'29		conjunction	9107 Dec 05 04:54	17° $\mathbb{Z}$ 32'20	1°56'49
opposition	9102 Mar 23 00:12	3° $\mathbb{Z}$ 58'29	0°23'17	minimum elong	9107 Dec 05 04:54	17° $\mathbb{Z}$ 32'20	1°57'06
min. Earth dist.	9102 Mar 22 22:25	3° $\mathbb{Z}$ 58'51	8.38776 AU	max. Earth dist.	9107 Dec 04 23:25	17° $\mathbb{Z}$ 30'36	10.28287 AU
direct	9102 May 29 09:41	0° $\mathbb{Z}$ 33'57		morning rise	9107 Dec 22 21:50	19° $\mathbb{Z}$ 46'11	
evening set	9102 Sep 08 11:09	8° $\mathbb{Z}$ 14'41		retrograde	9108 Apr 03 20:45	27° $\mathbb{Z}$ 37'21	
				opposition	9108 Jun 09 22:04	24° $\mathbb{Z}$ 12'42	2°26'14
conjunction	9102 Sep 26 05:46	10° $\mathbb{Z}$ 27'32	0°31'51	min. Earth dist.	9108 Jun 10 02:47	24° $\mathbb{Z}$ 11'46	8.29517 AU
minimum elong	9102 Sep 26 05:44	10° $\mathbb{Z}$ 27'32	0°31'52	direct	9108 Aug 17 03:37	20° $\mathbb{Z}$ 45'06	
max. Earth dist.	9102 Sep 26 06:12	10° $\mathbb{Z}$ 27'40	10.36346 AU	evening set	9108 Nov 30 15:30	28° $\mathbb{Z}$ 44'56	
morning rise	9102 Oct 14 02:45	12° $\mathbb{Z}$ 41'08			9108 Dec 10 15:24	0° $\mathbb{Z}$	
retrograde	9103 Jan 27 02:50	20° $\mathbb{Z}$ 35'05					
opposition	9103 Apr 05 07:41	17° $\mathbb{Z}$ 08'01	0°55'32	conjunction	9108 Dec 18 08:47	0° $\mathbb{Z}$ 58'36	1°57'09
min. Earth dist.	9103 Apr 05 07:44	17° $\mathbb{Z}$ 08'00	8.34144 AU	minimum elong	9108 Dec 18 08:48	0° $\mathbb{Z}$ 58'36	1°57'26
direct	9103 Jun 11 16:31	13° $\mathbb{Z}$ 42'37		max. Earth dist.	9108 Dec 18 01:56	0° $\mathbb{Z}$ 56'26	10.30768 AU
evening set	9103 Sep 22 09:24	21° $\mathbb{Z}$ 28'38		morning rise	9109 Jan 04 23:32	3° $\mathbb{Z}$ 11'32	
				retrograde	9109 Apr 17 09:09	10° $\mathbb{Z}$ 58'59	
conjunction	9103 Oct 10 05:34	23° $\mathbb{Z}$ 42'33	0°56'59	opposition	9109 Jun 23 11:20	7° $\mathbb{Z}$ 35'08	2°22'38
minimum elong	9103 Oct 10 05:32	23° $\mathbb{Z}$ 42'32	0°57'04	min. Earth dist.	9109 Jun 23 17:03	7° $\mathbb{Z}$ 34'00	8.32587 AU
max. Earth dist.	9103 Oct 10 03:59	23° $\mathbb{Z}$ 42'03	10.32176 AU	direct	9109 Aug 31 01:40	4° $\mathbb{Z}$ 07'34	
morning rise	9103 Oct 28 03:24	25° $\mathbb{Z}$ 56'59		evening set	9109 Dec 14 17:21	12° $\mathbb{Z}$ 06'06	
	9103 Dec 02 15:09	0° $\mathbb{M}$					
retrograde	9104 Feb 09 20:50	3° $\mathbb{M}$ 52'29		conjunction	9110 Jan 01 08:48	14° $\mathbb{Z}$ 18'48	1°51'10
opposition	9104 Apr 17 17:30	0° $\mathbb{M}$ 25'33	1°25'10	minimum elong	9110 Jan 01 08:49	14° $\mathbb{Z}$ 18'49	1°51'27
min. Earth dist.	9104 Apr 17 18:54	0° $\mathbb{M}$ 25'16	8.30548 AU	max. Earth dist.	9110 Jan 01 00:51	14° $\mathbb{Z}$ 16'18	10.34371 AU
	9104 Apr 23 00:24	30° $\mathbb{R}$ $\mathbb{Z}$		morning rise	9110 Jan 18 21:18	16° $\mathbb{Z}$ 30'37	
direct	9104 Jun 24 03:16	26° $\mathbb{Z}$ 59'25		retrograde	9110 Apr 30 17:51	24° $\mathbb{Z}$ 13'48	
	9104 Aug 22 23:21	0° $\mathbb{M}$		opposition	9110 Jul 06 23:22	20° $\mathbb{Z}$ 50'45	2°11'25
evening set	9104 Oct 05 12:08	4° $\mathbb{M}$ 50'18		min. Earth dist.	9110 Jul 07 05:36	20° $\mathbb{Z}$ 49'31	8.36609 AU
				direct	9110 Sep 13 22:34	17° $\mathbb{Z}$ 23'26	
conjunction	9104 Oct 23 09:05	7° $\mathbb{M}$ 04'55	1°19'15	evening set	9110 Dec 28 14:24	25° $\mathbb{Z}$ 19'28	
minimum elong	9104 Oct 23 09:02	7° $\mathbb{M}$ 04'54	1°19'24				
max. Earth dist.	9104 Oct 23 06:22	7° $\mathbb{M}$ 04'03	10.29145 AU	conjunction	9111 Jan 15 03:52	27° $\mathbb{Z}$ 31'04	1°39'20
morning rise	9104 Nov 10 06:45	9° $\mathbb{M}$ 19'47		minimum elong	9111 Jan 15 03:54	27° $\mathbb{Z}$ 31'05	1°39'35
	9105 Jan 02 02:29	15° $\mathbb{M}$		max. Earth dist.	9111 Jan 14 19:34	27° $\mathbb{Z}$ 28'28	10.38782 AU
retrograde	9105 Feb 22 15:26	17° $\mathbb{M}$ 15'54		morning rise	9111 Feb 01 14:01	29° $\mathbb{Z}$ 41'40	
	9105 Apr 16 08:11	15° $\mathbb{R}$ $\mathbb{M}$			9111 Feb 04 01:47	0° $\mathbb{Z}$	
opposition	9105 May 01 05:11	13° $\mathbb{M}$ 49'18	1°50'24	retrograde	9111 May 14 00:31	7° $\mathbb{Z}$ 20'27	
min. Earth dist.	9105 May 01 07:18	13° $\mathbb{M}$ 48'53	8.28197 AU	opposition	9111 Jul 20 09:46	3° $\mathbb{Z}$ 58'11	1°53'25
direct	9105 Jul 07 18:29	10° $\mathbb{M}$ 22'34		min. Earth dist.	9111 Jul 20 15:35	3° $\mathbb{Z}$ 57'02	8.41290 AU
	9105 Sep 21 16:04	15° $\mathbb{M}$		direct	9111 Sep 27 16:31	0° $\mathbb{Z}$ 31'22	
evening set	9105 Oct 19 18:22	18° $\mathbb{M}$ 17'35		evening set	9112 Jan 11 06:03	8° $\mathbb{Z}$ 23'59	

conjunction	9112 Jan 28 17:28	10° $\approx$ 34'23	1°22'27	opposition	9117 Oct 05 03:48	19° $\Upsilon$ 25'48	-1°00'38
minimum elong	9112 Jan 28 17:31	10° $\approx$ 34'24	1°22'41	min. Earth dist.	9117 Oct 05 02:51	19° $\Upsilon$ 25'59	8.72281 AU
max. Earth dist.	9112 Jan 28 10:06	10° $\approx$ 32'05	10.43759 AU	direct	9117 Dec 14 10:16	16° $\Upsilon$ 03'29	
morning rise	9112 Feb 15 01:15	12° $\approx$ 43'43		evening set	9118 Mar 27 09:11	23° $\Upsilon$ 28'23	
	9112 Mar 05 05:41	15° $\approx$					
retrograde	9112 May 26 04:04	20° $\approx$ 18'11		conjunction	9118 Apr 13 06:09	25° $\Upsilon$ 30'55	-1°00'31
opposition	9112 Aug 01 18:21	16° $\approx$ 56'38	1°29'48	minimum elong	9118 Apr 13 06:07	25° $\Upsilon$ 30'54	1°00'37
min. Earth dist.	9112 Aug 01 23:32	16° $\approx$ 55'37	8.46452 AU	max. Earth dist.	9118 Apr 13 07:53	25° $\Upsilon$ 31'26	10.74144 AU
	9112 Aug 28 04:11	15° $\approx$		morning rise	9118 Apr 30 01:35	27° $\Upsilon$ 33'01	
direct	9112 Oct 10 07:32	13° $\approx$ 30'28			9118 May 21 11:49	0° $\delta$	
	9112 Nov 21 18:22	15° $\approx$		retrograde	9118 Aug 09 09:21	4° $\delta$ 51'33	
evening set	9113 Jan 23 16:00	21° $\approx$ 18'55		opposition	9118 Oct 17 23:21	1° $\delta$ 31'19	-1°27'04
				min. Earth dist.	9118 Oct 17 21:09	1° $\delta$ 31'44	8.75848 AU
conjunction	9113 Feb 10 01:13	23° $\approx$ 28'02	1°01'34		9118 Nov 07 21:22	30° $\kappa$ $\Upsilon$	
minimum elong	9113 Feb 10 01:15	23° $\approx$ 28'02	1°01'44	direct	9118 Dec 27 03:25	28° $\Upsilon$ 09'44	
max. Earth dist.	9113 Feb 09 18:58	23° $\approx$ 26'05	10.49135 AU		9119 Feb 12 20:58	0° $\delta$	
morning rise	9113 Feb 27 06:42	25° $\approx$ 36'04		evening set	9119 Apr 08 14:22	5° $\delta$ 30'57	
	9113 Apr 08 01:21	0° $\chi$					
retrograde	9113 Jun 08 03:50	3° $\chi$ 06'25		conjunction	9119 Apr 25 09:20	7° $\delta$ 32'32	-1°20'30
	9113 Aug 11 22:16	30° $\kappa$ $\approx$		minimum elong	9119 Apr 25 09:18	7° $\delta$ 32'31	1°20'38
opposition	9113 Aug 15 00:55	29° $\approx$ 45'29	1°01'59	max. Earth dist.	9119 Apr 25 12:04	7° $\delta$ 33'22	10.77212 AU
min. Earth dist.	9113 Aug 15 05:38	29° $\approx$ 44'34	8.51921 AU	morning rise	9119 May 12 03:40	9° $\delta$ 33'57	
direct	9113 Oct 23 20:13	26° $\approx$ 20'02			9119 Jul 04 20:09	15° $\delta$	
	9113 Dec 31 10:11	0° $\chi$		retrograde	9119 Aug 21 19:54	16° $\delta$ 52'29	
evening set	9114 Feb 05 20:21	4° $\chi$ 03'49			9119 Oct 10 13:43	15° $\kappa$ $\delta$	
				opposition	9119 Oct 30 17:18	13° $\delta$ 32'00	-1°49'30
conjunction	9114 Feb 23 03:05	6° $\chi$ 11'33	0°37'52	min. Earth dist.	9119 Oct 30 14:18	13° $\delta$ 32'34	8.78453 AU
minimum elong	9114 Feb 23 03:06	6° $\chi$ 11'33	0°37'59	direct	9120 Jan 08 18:57	10° $\delta$ 11'02	
max. Earth dist.	9114 Feb 22 21:40	6° $\chi$ 09'52	10.54704 AU		9120 Mar 28 19:28	15° $\delta$	
morning rise	9114 Mar 12 06:20	8° $\chi$ 18'16		evening set	9120 Apr 19 17:16	17° $\delta$ 29'18	
retrograde	9114 Jun 21 00:35	15° $\chi$ 44'53					
opposition	9114 Aug 28 05:12	12° $\chi$ 24'25	0°31'31	conjunction	9120 May 06 10:50	19° $\delta$ 30'14	-1°36'51
min. Earth dist.	9114 Aug 28 09:25	12° $\chi$ 23'37	8.57482 AU	minimum elong	9120 May 06 10:48	19° $\delta$ 30'13	1°37'03
direct	9114 Nov 06 04:48	8° $\chi$ 59'45		max. Earth dist.	9120 May 06 14:35	19° $\delta$ 31'22	10.79254 AU
evening set	9115 Feb 18 19:02	16° $\chi$ 38'36		morning rise	9120 May 23 04:37	21° $\delta$ 31'12	
				retrograde	9120 Sep 02 07:11	28° $\delta$ 50'29	
conjunction	9115 Mar 07 23:08	18° $\chi$ 44'55	0°12'38	opposition	9120 Nov 11 09:52	25° $\delta$ 29'40	-2°07'03
minimum elong	9115 Mar 07 23:08	18° $\chi$ 44'55	0°12'42	min. Earth dist.	9120 Nov 11 05:38	25° $\delta$ 30'28	8.79971 AU
behind sun begin	9115 Mar 07 18:37	18° $\chi$ 43'32		direct	9121 Jan 20 07:44	22° $\delta$ 09'13	
behind sun end	9115 Mar 08 03:40	18° $\chi$ 46'18		evening set	9121 May 01 18:45	29° $\delta$ 25'19	
max. Earth dist.	9115 Mar 07 18:29	18° $\chi$ 43'30	10.60235 AU		9121 May 06 15:10	0° $\Pi$	
morning rise	9115 Mar 25 00:18	20° $\chi$ 50'20					
retrograde	9115 Jul 03 17:11	28° $\chi$ 13'48		conjunction	9121 May 18 11:41	1° $\Pi$ 25'54	-1°48'59
desc. node	9115 Sep 09 16:52	24° $\chi$ 56'21		minimum elong	9121 May 18 11:39	1° $\Pi$ 25'53	1°49'13
opposition	9115 Sep 10 07:08	24° $\chi$ 53'37	-0°00'03	max. Earth dist.	9121 May 18 17:12	1° $\Pi$ 27'34	10.80171 AU
min. Earth dist.	9115 Sep 10 10:04	24° $\chi$ 53'03	8.62895 AU	morning rise	9121 Jun 04 05:24	3° $\Pi$ 26'43	
direct	9115 Nov 19 10:24	21° $\chi$ 29'44		retrograde	9121 Sep 14 18:48	10° $\Pi$ 47'30	
evening set	9116 Mar 02 12:10	29° $\chi$ 03'37		opposition	9121 Nov 24 01:54	7° $\Pi$ 26'14	-2°19'06
	9116 Mar 10 06:13	0° $\Upsilon$		min. Earth dist.	9121 Nov 23 19:58	7° $\Pi$ 27'21	8.80328 AU
conjunction	9116 Mar 19 13:46	1° $\Upsilon$ 08'33	-0°13'00	direct	9122 Feb 01 18:53	4° $\Pi$ 06'13	
minimum elong	9116 Mar 19 13:46	1° $\Upsilon$ 08'33	0°13'00	evening set	9122 May 13 19:38	11° $\Pi$ 20'53	
behind sun begin	9116 Mar 19 09:25	1° $\Upsilon$ 07'14					
behind sun end	9116 Mar 19 18:06	1° $\Upsilon$ 09'52		conjunction	9122 May 30 12:41	13° $\Pi$ 21'27	-1°56'22
max. Earth dist.	9116 Mar 19 10:54	1° $\Upsilon$ 07'41	10.65476 AU	minimum elong	9122 May 30 12:40	13° $\Pi$ 21'27	1°56'39
morning rise	9116 Apr 05 12:55	3° $\Upsilon$ 12'46		max. Earth dist.	9122 May 30 20:06	13° $\Pi$ 23'42	10.79919 AU
retrograde	9116 Jul 15 07:16	10° $\Upsilon$ 33'48		morning rise	9122 Jun 16 07:02	15° $\Pi$ 22'28	
opposition	9116 Sep 22 06:37	7° $\Upsilon$ 13'43	-0°31'13	retrograde	9122 Sep 27 09:19	22° $\Pi$ 45'24	
min. Earth dist.	9116 Sep 22 07:33	7° $\Upsilon$ 13'32	8.67903 AU	opposition	9122 Dec 06 17:46	19° $\Pi$ 23'37	-2°25'08
direct	9116 Dec 01 13:12	3° $\Upsilon$ 50'38		min. Earth dist.	9122 Dec 06 10:46	19° $\Pi$ 24'56	8.79507 AU
evening set	9117 Mar 15 00:41	11° $\Upsilon$ 19'48		direct	9123 Feb 14 04:37	16° $\Pi$ 03'51	
				evening set	9123 May 25 21:19	23° $\Pi$ 17'54	
conjunction	9117 Mar 31 23:54	13° $\Upsilon$ 23'28	-0°37'42				
minimum elong	9117 Mar 31 23:53	13° $\Upsilon$ 23'27	0°37'45	conjunction	9123 Jun 11 15:09	25° $\Pi$ 18'50	-1°58'44
max. Earth dist.	9117 Mar 31 23:28	13° $\Upsilon$ 23'20	10.70179 AU	minimum elong	9123 Jun 11 15:09	25° $\Pi$ 18'50	1°59'01
morning rise	9117 Apr 17 21:02	15° $\Upsilon$ 26'31		max. Earth dist.	9123 Jun 11 22:59	25° $\Pi$ 21'12	10.78519 AU
retrograde	9117 Jul 27 21:47	22° $\Upsilon$ 45'54		morning rise	9123 Jun 28 11:05	27° $\Pi$ 20'23	
					9123 Jul 21 23:19	0° $\phi$	

retrograde	9123 Oct 10 01:38	4°♄45'54	retrograde	9129 Dec 25 09:32	19°♎05'29
opposition	9123 Dec 19 09:45	1°♄23'35 -2°24'53	opposition	9130 Mar 04 11:55	15°♎39'42 -0°23'43
min. Earth dist.	9123 Dec 19 02:46	1°♄24'54 8.77552 AU	min. Earth dist.	9130 Mar 04 08:55	15°♎40'17 8.49578 AU
	9124 Jan 07 08:52	30°♎II	direct	9130 May 11 01:12	12°♎17'08
direct	9124 Feb 26 12:13	28°♎03'53	evening set	9130 Aug 20 07:25	19°♎49'00
	9124 Apr 14 22:25	0°♄			
evening set	9124 Jun 06 00:34	5°♄18'11	conjunction	9130 Sep 06 22:11	21°♎59'23 -0°06'16
			minimum elong	9130 Sep 06 22:12	21°♎59'23 0°06'19
conjunction	9124 Jun 22 20:00	7°♄19'48 -1°55'54	behind sun begin	9130 Sep 06 15:23	21°♎57'18
minimum elong	9124 Jun 22 20:00	7°♄19'49 1°56'11	behind sun end	9130 Sep 07 05:01	22°♎01'29
max. Earth dist.	9124 Jun 23 03:38	7°♄22'07 10.76037 AU	max. Earth dist.	9130 Sep 07 00:57	22°♎00'13 10.46761 AU
morning rise	9124 Jul 09 18:16	9°♄22'14	morning rise	9130 Sep 24 16:15	24°♎10'46
retrograde	9124 Oct 21 18:05	16°♄50'46		9130 Nov 19 18:36	0°♄
opposition	9124 Dec 31 02:30	13°♄27'51 -2°18'16	asc. node	9130 Dec 04 14:47	0°♄59'48
min. Earth dist.	9124 Dec 30 19:47	13°♄29'08 8.74550 AU	retrograde	9131 Jan 07 20:19	1°♄59'41
direct	9125 Mar 09 22:32	10°♄08'04		9131 Feb 26 21:19	30°♎♎
evening set	9125 Jun 18 06:13	17°♄23'26	opposition	9131 Mar 17 15:07	28°♎33'32 0°09'01
			min. Earth dist.	9131 Mar 17 13:29	28°♎33'51 8.43974 AU
conjunction	9125 Jul 05 04:05	19°♄26'04 -1°47'56	direct	9131 May 24 02:51	25°♎10'04
minimum elong	9125 Jul 05 04:06	19°♄26'05 1°48'11		9131 Aug 09 23:04	0°♄
max. Earth dist.	9125 Jul 05 12:07	19°♄28'31 10.72584 AU	evening set	9131 Sep 02 20:20	2°♄47'06
morning rise	9125 Jul 22 05:13	21°♄29'39			
retrograde	9125 Nov 03 14:46	29°♄01'33	conjunction	9131 Sep 20 13:52	4°♄58'59 0°20'27
opposition	9126 Jan 12 20:18	25°♄38'00 -2°05'26	minimum elong	9131 Sep 20 13:51	4°♄58'59 0°20'27
min. Earth dist.	9126 Jan 12 13:21	25°♄39'20 8.70640 AU	max. Earth dist.	9131 Sep 20 15:08	4°♄59'23 10.41315 AU
direct	9126 Mar 22 09:53	22°♄17'59	morning rise	9131 Oct 08 09:55	7°♄11'40
evening set	9126 Jun 30 15:30	29°♄35'10	retrograde	9132 Jan 21 11:07	15°♄03'18
	9126 Jul 04 02:18	0°♎	opposition	9132 Mar 29 20:36	11°♄36'55 0°41'43
			min. Earth dist.	9132 Mar 29 19:59	11°♄37'02 8.38798 AU
conjunction	9126 Jul 17 16:29	1°♎39'07 -1°35'01	direct	9132 Jun 05 06:25	8°♄12'33
minimum elong	9126 Jul 17 16:31	1°♎39'08 1°35'16	evening set	9132 Sep 15 15:09	15°♄54'53
max. Earth dist.	9126 Jul 18 01:15	1°♎41'48 10.68312 AU			
morning rise	9126 Aug 03 20:54	3°♎44'07	conjunction	9132 Oct 03 10:39	18°♄07'59 0°46'17
retrograde	9126 Nov 16 15:19	11°♎19'32	minimum elong	9132 Oct 03 10:37	18°♄07'59 0°46'21
opposition	9127 Jan 25 15:22	7°♎55'21 -1°46'46	max. Earth dist.	9132 Oct 03 10:23	18°♄07'55 10.36473 AU
min. Earth dist.	9127 Jan 25 08:12	7°♎56'44 8.65994 AU	morning rise	9132 Oct 21 07:50	20°♄21'42
direct	9127 Apr 03 21:25	4°♎34'57	retrograde	9133 Feb 03 04:30	28°♄15'21
evening set	9127 Jul 13 05:15	11°♎54'45	opposition	9133 Apr 12 04:30	24°♄48'52 1°12'36
			min. Earth dist.	9133 Apr 12 05:04	24°♄48'45 8.34414 AU
conjunction	9127 Jul 30 09:42	14°♎00'12 -1°17'38	direct	9133 Jun 18 13:44	21°♄23'35
minimum elong	9127 Jul 30 09:44	14°♎00'13 1°17'50	evening set	9133 Sep 29 15:02	29°♄11'01
max. Earth dist.	9127 Jul 30 18:03	14°♎02'46 10.63400 AU		9133 Oct 06 04:51	0°♎
	9127 Aug 07 13:06	15°♎			
morning rise	9127 Aug 16 17:44	16°♎06'46	conjunction	9133 Oct 17 11:36	1°♎25'01 1°09'55
retrograde	9127 Nov 29 18:18	23°♎45'45	minimum elong	9133 Oct 17 11:34	1°♎25'00 1°10'02
opposition	9128 Feb 07 12:11	20°♎20'58 -1°22'56	max. Earth dist.	9133 Oct 17 09:10	1°♎24'15 10.32562 AU
min. Earth dist.	9128 Feb 07 05:40	20°♎22'14 8.60800 AU	morning rise	9133 Nov 04 09:09	3°♎39'23
direct	9128 Apr 15 11:48	17°♎00'00	retrograde	9134 Feb 16 22:19	11°♎34'08
evening set	9128 Jul 25 00:12	24°♎23'10	opposition	9134 Apr 25 14:28	8°♎07'44 1°39'53
			min. Earth dist.	9134 Apr 25 16:48	8°♎07'16 8.31095 AU
conjunction	9128 Aug 11 08:09	26°♎30'15 -0°56'25	direct	9134 Jul 02 01:53	4°♎41'35
minimum elong	9128 Aug 11 08:11	26°♎30'16 0°56'35	evening set	9134 Oct 13 18:59	12°♎33'38
max. Earth dist.	9128 Aug 11 14:48	26°♎32'18 10.58039 AU			
morning rise	9128 Aug 28 19:51	28°♎38'28	conjunction	9134 Oct 31 15:48	14°♎48'08 1°29'56
	9128 Sep 09 07:51	0°♎	minimum elong	9134 Oct 31 15:45	14°♎48'07 1°30'07
retrograde	9128 Dec 12 00:42	6°♎20'55	max. Earth dist.	9134 Oct 31 11:02	14°♎46'38 10.29816 AU
opposition	9129 Feb 19 10:59	2°♎55'37 -0°54'51		9134 Nov 02 05:23	15°♎
min. Earth dist.	9129 Feb 19 06:06	2°♎56'34 8.55262 AU	morning rise	9134 Nov 18 12:49	17°♎02'45
	9129 Apr 05 22:44	30°♎♎	retrograde	9135 Mar 02 15:05	24°♎57'33
direct	9129 Apr 28 04:37	29°♎33'55	opposition	9135 May 09 01:52	21°♎31'26 2°01'55
	9129 May 20 07:41	0°♎	min. Earth dist.	9135 May 09 05:53	21°♎30'37 8.29033 AU
evening set	9129 Aug 07 00:49	7°♎01'06	direct	9135 Jul 15 17:52	18°♎04'32
			evening set	9135 Oct 28 01:11	26°♎00'14
conjunction	9129 Aug 24 12:16	9°♎09'51 -0°32'15			
minimum elong	9129 Aug 24 12:17	9°♎09'51 0°32'22	conjunction	9135 Nov 14 21:34	28°♎14'53 1°45'08
max. Earth dist.	9129 Aug 24 16:46	9°♎11'14 10.52430 AU	minimum elong	9135 Nov 14 21:32	28°♎14'52 1°45'22
morning rise	9129 Sep 11 03:26	11°♎19'42	max. Earth dist.	9135 Nov 14 15:04	28°♎12'50 10.28394 AU

	9135 Nov 28 19:02	0°♊		max. Earth dist.	9142 Feb 03 23:26	17°♊44'46	10.46269 AU
morning rise	9135 Dec 02 17:21	0°♊29'21		morning rise	9142 Feb 21 13:26	19°♊55'40	
retrograde	9136 Mar 15 08:04	8°♊23'10		retrograde	9142 Jun 02 10:28	27°♊27'28	
opposition	9136 May 21 14:25	4°♊57'27	2°17'23	opposition	9142 Aug 09 06:24	24°♊05'52	1°15'23
min. Earth dist.	9136 May 21 19:29	4°♊56'26	8.28336 AU	min. Earth dist.	9142 Aug 09 11:14	24°♊04'55	8.49163 AU
direct	9136 Jul 28 11:52	1°♊29'59		direct	9142 Oct 18 00:44	20°♊39'40	
evening set	9136 Nov 10 07:44	9°♊28'06		evening set	9143 Jan 31 02:43	28°♊25'13	
					9143 Feb 12 22:42	0°♋	
conjunction	9136 Nov 28 03:11	11°♊42'32	1°54'38				
minimum elong	9136 Nov 28 03:10	11°♊42'32	1°54'54	conjunction	9143 Feb 17 10:35	0°♋33'32	0°49'12
max. Earth dist.	9136 Nov 27 19:51	11°♊40'13	10.28368 AU	minimum elong	9143 Feb 17 10:37	0°♋33'32	0°49'21
morning rise	9136 Dec 15 21:11	13°♊56'33		max. Earth dist.	9143 Feb 17 05:02	0°♋31'48	10.52070 AU
retrograde	9137 Mar 28 23:34	21°♊48'18		morning rise	9143 Mar 06 15:01	2°♋40'48	
opposition	9137 Jun 04 03:19	18°♊23'06	2°25'20	retrograde	9143 Jun 15 08:46	10°♋08'38	
min. Earth dist.	9137 Jun 04 08:39	18°♊22'01	8.29021 AU	opposition	9143 Aug 22 11:05	6°♋47'40	0°46'00
direct	9137 Aug 11 07:44	14°♊55'16		min. Earth dist.	9143 Aug 22 14:19	6°♋47'02	8.55025 AU
evening set	9137 Nov 24 13:17	22°♊54'26		direct	9143 Oct 31 10:10	3°♋22'23	
				evening set	9144 Feb 13 03:18	11°♋03'01	
conjunction	9137 Dec 12 07:27	25°♊08'22	1°57'52				
minimum elong	9137 Dec 12 07:27	25°♊08'22	1°58'09	conjunction	9144 Mar 01 08:47	13°♋09'56	0°24'34
max. Earth dist.	9137 Dec 12 00:01	25°♊06'00	10.29721 AU	minimum elong	9144 Mar 01 08:47	13°♋09'56	0°24'40
morning rise	9137 Dec 29 23:16	27°♊21'38		max. Earth dist.	9144 Mar 01 05:18	13°♋08'52	10.57979 AU
	9138 Jan 21 03:34	0°♌		morning rise	9144 Mar 18 10:54	15°♋15'51	
retrograde	9138 Apr 11 12:46	5°♌10'19		retrograde	9144 Jun 27 03:27	22°♋40'14	
opposition	9138 Jun 17 15:57	1°♌45'45	2°25'21	opposition	9144 Sep 03 13:22	19°♋19'47	0°14'49
min. Earth dist.	9138 Jun 17 21:27	1°♌44'39	8.31030 AU	min. Earth dist.	9144 Sep 03 15:21	19°♋19'24	8.60867 AU
	9138 Jul 10 16:56	30°♌♊		direct	9144 Nov 12 15:45	15°♋55'30	
direct	9138 Aug 25 04:14	28°♊17'47		evening set	9145 Feb 24 22:36	23°♋31'11	
	9138 Oct 08 23:31	0°♌		desc. node	9145 Feb 27 14:36	23°♋50'30	
evening set	9138 Dec 08 16:07	6°♌16'34					
				conjunction	9145 Mar 14 01:33	25°♋36'40	-0°01'00
conjunction	9138 Dec 26 08:37	8°♌29'42	1°54'44	minimum elong	9145 Mar 14 01:31	25°♋36'40	0°00'58
minimum elong	9138 Dec 26 08:38	8°♌29'43	1°55'01	behind sun begin	9145 Mar 13 18:26	25°♋34'31	
max. Earth dist.	9138 Dec 26 01:08	8°♌27'21	10.32361 AU	behind sun end	9145 Mar 14 08:36	25°♋38'49	
morning rise	9139 Jan 12 22:05	10°♌42'00		max. Earth dist.	9145 Mar 13 23:37	25°♋36'09	10.63710 AU
retrograde	9139 Apr 24 23:48	18°♌26'54		morning rise	9145 Mar 31 01:29	27°♋41'19	
opposition	9139 Jul 01 03:58	15°♌03'03	2°17'33		9145 Apr 20 00:13	0°♎	
min. Earth dist.	9139 Jul 01 09:47	15°♌01'53	8.34247 AU	retrograde	9145 Jul 09 19:18	5°♎02'54	
direct	9139 Sep 07 23:24	11°♌35'11		opposition	9145 Sep 16 13:36	1°♎42'53	-0°16'40
evening set	9139 Dec 22 14:41	19°♌32'09		min. Earth dist.	9145 Sep 16 14:52	1°♎42'38	8.66414 AU
					9145 Oct 10 03:17	30°♌♋	
conjunction	9140 Jan 09 05:13	21°♌44'18	1°45'31	direct	9145 Nov 25 18:17	28°♋19'34	
minimum elong	9140 Jan 09 05:15	21°♌44'19	1°45'47		9146 Jan 10 05:34	0°♎	
max. Earth dist.	9140 Jan 08 21:41	21°♌41'56	10.36143 AU	evening set	9146 Mar 09 13:05	5°♎50'28	
morning rise	9140 Jan 26 16:22	23°♌55'27					
	9140 Mar 25 14:24	0°♏		conjunction	9146 Mar 26 13:19	7°♎54'35	-0°26'12
retrograde	9140 May 07 07:45	1°♏36'06		minimum elong	9146 Mar 26 13:18	7°♎54'35	0°26'14
	9140 Jun 19 22:34	30°♌♏		max. Earth dist.	9146 Mar 26 12:17	7°♎54'16	10.69004 AU
opposition	9140 Jul 13 14:43	28°♌13'01	2°02'34	morning rise	9146 Apr 12 11:20	9°♎58'03	
min. Earth dist.	9140 Jul 13 20:53	28°♌11'47	8.38498 AU	retrograde	9146 Jul 22 09:09	17°♎17'38	
direct	9140 Sep 20 17:25	24°♌45'28		opposition	9146 Sep 29 11:44	13°♎57'51	-0°47'00
	9140 Dec 12 18:14	0°♏		min. Earth dist.	9146 Sep 29 11:52	13°♎57'50	8.71422 AU
evening set	9141 Jan 04 08:22	2°♏39'28		direct	9146 Dec 08 17:02	10°♎35'30	
				evening set	9147 Mar 21 23:17	18°♎01'58	
conjunction	9141 Jan 21 20:47	4°♏50'27	1°30'51				
minimum elong	9141 Jan 21 20:49	4°♏50'28	1°31'06	conjunction	9147 Apr 07 21:06	20°♎04'51	-0°49'59
max. Earth dist.	9141 Jan 21 13:02	4°♏48'01	10.40864 AU	minimum elong	9147 Apr 07 21:04	20°♎04'51	0°50'04
morning rise	9141 Feb 08 05:44	7°♏00'23		max. Earth dist.	9147 Apr 07 21:28	20°♎04'58	10.73637 AU
retrograde	9141 May 20 10:53	14°♏36'32		morning rise	9147 Apr 24 17:24	22°♎07'17	
opposition	9141 Jul 26 23:32	11°♏14'13	1°41'24	retrograde	9147 Aug 03 20:22	29°♎25'40	
min. Earth dist.	9141 Jul 27 05:32	11°♏13'02	8.43560 AU	opposition	9147 Oct 12 07:51	26°♎05'57	-1°14'55
direct	9141 Oct 04 10:12	7°♏47'14		min. Earth dist.	9147 Oct 12 06:15	26°♎06'15	8.75671 AU
	9142 Jan 12 17:15	15°♏		direct	9147 Dec 21 13:13	22°♎44'29	
evening set	9142 Jan 17 20:30	15°♏37'21			9148 Apr 01 06:15	0°♐	
				evening set	9148 Apr 02 05:50	0°♐07'00	
conjunction	9142 Feb 04 06:42	17°♏47'02	1°11'43				
minimum elong	9142 Feb 04 06:44	17°♏47'03	1°11'55	conjunction	9148 Apr 19 01:42	2°♐08'51	-1°11'22

minimum elong	9148 Apr 19 01:39	2°♄08'50	1°11'30	morning rise	9154 Jul 16 17:50	16°♄03'48	
max. Earth dist.	9148 Apr 19 04:15	2°♄09'38	10.77393 AU	retrograde	9154 Oct 29 00:40	23°♄34'17	
morning rise	9148 May 05 20:30	4°♄10'25		opposition	9155 Jan 07 05:53	20°♄11'04	-2°12'07
retrograde	9148 Aug 15 08:32	11°♄28'26		min. Earth dist.	9155 Jan 06 23:34	20°♄12'17	8.72265 AU
opposition	9148 Oct 24 02:17	8°♄08'37	-1°39'18	direct	9155 Mar 16 22:04	16°♄51'09	
min. Earth dist.	9148 Oct 23 22:48	8°♄09'16	8.78944 AU	evening set	9155 Jun 25 05:17	24°♄07'37	
direct	9149 Jan 02 06:14	4°♄47'56					
evening set	9149 Apr 14 09:47	12°♄07'07		conjunction	9155 Jul 12 04:40	26°♄10'59	-1°41'36
				minimum elong	9155 Jul 12 04:42	26°♄11'00	1°41'51
conjunction	9149 May 01 04:02	14°♄08'10	-1°29'30	max. Earth dist.	9155 Jul 12 11:10	26°♄12'59	10.69828 AU
minimum elong	9149 May 01 04:00	14°♄08'10	1°29'41	morning rise	9155 Jul 29 07:32	28°♄15'23	
max. Earth dist.	9149 May 01 08:22	14°♄09'29	10.80070 AU		9155 Aug 13 07:27	0°♄	
	9149 May 08 07:08	15°♄		retrograde	9155 Nov 10 22:29	5°♄49'24	
morning rise	9149 May 17 21:47	16°♄09'09		opposition	9156 Jan 20 00:24	2°♄25'21	-1°56'10
retrograde	9149 Aug 27 20:59	23°♄27'32		min. Earth dist.	9156 Jan 19 18:59	2°♄26'24	8.67404 AU
opposition	9149 Nov 05 19:28	20°♄07'29	-1°59'13		9156 Feb 24 06:21	30°♄	
min. Earth dist.	9149 Nov 05 15:09	20°♄08'17	8.81052 AU	direct	9156 Mar 28 09:01	29°♄04'53	
direct	9150 Jan 14 18:32	16°♄47'24			9156 Apr 29 23:54	0°♄	
evening set	9150 Apr 26 11:58	24°♄04'01		evening set	9156 Jul 06 16:53	6°♄23'46	
conjunction	9150 May 13 05:03	26°♄04'35	-1°43'40	conjunction	9156 Jul 23 19:34	8°♄28'36	-1°26'16
minimum elong	9150 May 13 05:01	26°♄04'34	1°43'54	minimum elong	9156 Jul 23 19:36	8°♄28'37	1°26'29
max. Earth dist.	9150 May 13 09:49	26°♄06'01	10.81505 AU	max. Earth dist.	9156 Jul 24 01:46	8°♄30'30	10.64671 AU
morning rise	9150 May 29 22:33	28°♄05'17		morning rise	9156 Aug 10 02:01	10°♄34'33	
	9150 Jun 15 13:54	0°♄			9156 Sep 19 20:58	15°♄	
retrograde	9150 Sep 09 07:39	5°♄24'52		retrograde	9156 Nov 22 22:21	18°♄12'15	
opposition	9150 Nov 18 11:56	2°♄04'25	-2°13'54		9157 Jan 29 03:33	15°♄	
min. Earth dist.	9150 Nov 18 07:29	2°♄05'15	8.81844 AU	opposition	9157 Jan 31 20:34	14°♄47'24	-1°34'41
	9150 Dec 18 07:29	30°♄		min. Earth dist.	9157 Jan 31 15:34	14°♄48'22	8.61941 AU
direct	9151 Jan 27 06:04	28°♄44'46		direct	9157 Apr 10 00:06	11°♄26'15	
	9151 Mar 07 05:59	0°♄			9157 Jun 15 03:30	15°♄	
evening set	9151 May 08 13:09	5°♄59'43		evening set	9157 Jul 19 09:07	18°♄48'15	
conjunction	9151 May 25 05:51	8°♄00'07	-1°53'20	conjunction	9157 Aug 05 15:29	20°♄54'45	-1°06'45
minimum elong	9151 May 25 05:50	8°♄00'07	1°53'36	minimum elong	9157 Aug 05 15:31	20°♄54'46	1°06'57
max. Earth dist.	9151 May 25 10:38	8°♄01'34	10.81584 AU	max. Earth dist.	9157 Aug 05 21:45	20°♄56'41	10.59025 AU
morning rise	9151 Jun 10 23:52	10°♄00'53		morning rise	9157 Aug 23 01:33	23°♄02'21	
retrograde	9151 Sep 21 20:32	17°♄22'27			9157 Nov 06 15:22	0°♄	
opposition	9151 Dec 01 03:56	14°♄01'30	-2°22'50	retrograde	9157 Dec 06 03:42	0°♄43'48	
min. Earth dist.	9151 Nov 30 23:15	14°♄02'23	8.81257 AU		9158 Jan 04 21:01	30°♄	
direct	9152 Feb 08 17:10	10°♄42'04		opposition	9158 Feb 13 18:37	27°♄18'12	-1°08'28
evening set	9152 May 19 14:32	17°♄56'13		min. Earth dist.	9158 Feb 13 13:45	27°♄19'09	8.56109 AU
				direct	9158 Apr 22 16:06	23°♄56'17	
conjunction	9152 Jun 05 07:48	19°♄56'51	-1°58'06		9158 Jul 20 18:08	0°♄	
minimum elong	9152 Jun 05 07:48	19°♄56'51	1°58'23	evening set	9158 Aug 01 07:05	1°♄22'08	
max. Earth dist.	9152 Jun 05 13:34	19°♄58'36	10.80321 AU				
morning rise	9152 Jun 22 02:55	21°♄58'03		conjunction	9158 Aug 18 17:09	3°♄30'20	-0°43'50
retrograde	9152 Oct 03 11:21	29°♄22'10		minimum elong	9158 Aug 18 17:10	3°♄30'21	0°43'59
opposition	9152 Dec 12 19:51	26°♄00'33	-2°25'35	max. Earth dist.	9158 Aug 18 23:00	3°♄32'09	10.53130 AU
min. Earth dist.	9152 Dec 12 14:11	26°♄01'37	8.79367 AU	morning rise	9158 Sep 05 06:43	5°♄39'39	
direct	9153 Feb 20 02:31	22°♄41'11		retrograde	9158 Dec 19 12:06	13°♄24'40	
evening set	9153 May 31 17:03	29°♄55'19		opposition	9159 Feb 26 18:36	9°♄58'26	-0°38'34
	9153 Jun 01 08:49	0°♄		min. Earth dist.	9159 Feb 26 14:17	9°♄59'17	8.50170 AU
				direct	9159 May 05 10:31	6°♄35'39	
conjunction	9153 Jun 17 11:43	1°♄56'33	-1°57'45	evening set	9159 Aug 14 11:08	14°♄06'01	
minimum elong	9153 Jun 17 11:43	1°♄56'33	1°58'02				
max. Earth dist.	9153 Jun 17 18:42	1°♄58'40	10.77835 AU	conjunction	9159 Sep 01 00:35	16°♄15'54	-0°18'31
morning rise	9153 Jul 04 08:38	3°♄58'30		minimum elong	9159 Sep 01 00:35	16°♄15'55	0°18'37
retrograde	9153 Oct 16 04:11	11°♄25'39		max. Earth dist.	9159 Sep 01 04:41	16°♄17'10	10.47256 AU
opposition	9153 Dec 25 12:25	8°♄03'15	-2°22'01	morning rise	9159 Sep 18 17:19	18°♄26'50	
min. Earth dist.	9153 Dec 25 05:59	8°♄04'29	8.76315 AU	retrograde	9160 Jan 01 23:00	26°♄15'09	
direct	9154 Mar 04 12:29	4°♄43'43		opposition	9160 Mar 10 21:04	22°♄48'27	-0°06'20
evening set	9154 Jun 12 21:33	11°♄58'36		min. Earth dist.	9160 Mar 10 18:13	22°♄49'01	8.44402 AU
				direct	9160 May 17 09:13	19°♄24'46	
conjunction	9154 Jun 29 18:15	14°♄00'46	-1°52'12	asc. node	9160 May 22 03:58	19°♄26'01	
minimum elong	9154 Jun 29 18:17	14°♄00'47	1°52'28	evening set	9160 Aug 26 21:19	27°♄00'05	
max. Earth dist.	9154 Jun 30 01:36	14°♄03'00	10.74280 AU				

conjunction	9160 Sep 13 13:36	29° $\mathbb{M}$ 11'32	0°08'06	opposition	9166 May 29 07:50	12° $\mathbb{A}$ 29'54	2°22'30
minimum elong	9160 Sep 13 13:36	29° $\mathbb{M}$ 11'32	0°08'04	min. Earth dist.	9166 May 29 12:11	12° $\mathbb{A}$ 29'01	8.28154 AU
behind sun begin	9160 Sep 13 07:10	29° $\mathbb{M}$ 09'33		direct	9166 Aug 05 07:17	9° $\mathbb{A}$ 02'24	
behind sun end	9160 Sep 13 20:02	29° $\mathbb{M}$ 13'31		evening set	9166 Nov 18 10:28	17° $\mathbb{A}$ 01'49	
max. Earth dist.	9160 Sep 13 15:36	29° $\mathbb{M}$ 12'08	10.41688 AU				
	9160 Sep 20 01:07	0° $\mathbb{A}$		conjunction	9166 Dec 06 05:12	19° $\mathbb{A}$ 16'06	1°57'02
morning rise	9160 Oct 01 08:54	1° $\mathbb{A}$ 23'54		minimum elong	9166 Dec 06 05:12	19° $\mathbb{A}$ 16'06	1°57'19
retrograde	9161 Jan 14 12:36	9° $\mathbb{A}$ 15'06		max. Earth dist.	9166 Dec 05 22:30	19° $\mathbb{A}$ 13'59	10.28741 AU
opposition	9161 Mar 24 01:58	5° $\mathbb{A}$ 48'08	0°26'39	morning rise	9166 Dec 23 22:04	21° $\mathbb{A}$ 29'51	
min. Earth dist.	9161 Mar 24 00:48	5° $\mathbb{A}$ 48'22	8.39104 AU	retrograde	9167 Apr 05 19:02	29° $\mathbb{A}$ 20'33	
direct	9161 May 30 11:42	2° $\mathbb{A}$ 23'32		opposition	9167 Jun 11 21:28	25° $\mathbb{A}$ 55'59	2°26'07
evening set	9161 Sep 09 13:39	10° $\mathbb{A}$ 04'04		min. Earth dist.	9167 Jun 12 02:54	25° $\mathbb{A}$ 54'54	8.29951 AU
				direct	9167 Aug 19 04:46	22° $\mathbb{A}$ 28'23	
conjunction	9161 Sep 27 08:15	12° $\mathbb{A}$ 16'51	0°34'29		9167 Nov 28 20:36	0° $\mathbb{B}$	
minimum elong	9161 Sep 27 08:13	12° $\mathbb{A}$ 16'50	0°34'30	evening set	9167 Dec 02 15:31	0° $\mathbb{B}$ 28'00	
max. Earth dist.	9161 Sep 27 08:19	12° $\mathbb{A}$ 16'52	10.36721 AU				
morning rise	9161 Oct 15 05:15	14° $\mathbb{A}$ 30'22		conjunction	9167 Dec 20 08:39	2° $\mathbb{B}$ 41'34	1°56'46
retrograde	9162 Jan 28 04:10	22° $\mathbb{A}$ 23'50		minimum elong	9167 Dec 20 08:40	2° $\mathbb{B}$ 41'34	1°57'03
opposition	9162 Apr 06 09:07	18° $\mathbb{A}$ 56'46	0°58'38	max. Earth dist.	9167 Dec 20 01:03	2° $\mathbb{B}$ 39'09	10.31183 AU
min. Earth dist.	9162 Apr 06 09:23	18° $\mathbb{A}$ 56'43	8.34564 AU	morning rise	9168 Jan 06 23:21	4° $\mathbb{B}$ 54'23	
direct	9162 Jun 12 18:43	15° $\mathbb{A}$ 31'19		retrograde	9168 Apr 18 07:17	12° $\mathbb{B}$ 41'30	
evening set	9162 Sep 23 11:34	23° $\mathbb{A}$ 17'04		opposition	9168 Jun 24 10:32	9° $\mathbb{B}$ 17'44	2°21'47
				min. Earth dist.	9168 Jun 24 16:12	9° $\mathbb{B}$ 16'36	8.32988 AU
conjunction	9162 Oct 11 07:46	25° $\mathbb{A}$ 30'53	0°59'19	direct	9168 Sep 01 01:47	5° $\mathbb{B}$ 50'14	
minimum elong	9162 Oct 11 07:44	25° $\mathbb{A}$ 30'52	0°59'25	evening set	9168 Dec 15 16:46	13° $\mathbb{B}$ 48'29	
max. Earth dist.	9162 Oct 11 06:32	25° $\mathbb{A}$ 30'29	10.32625 AU				
morning rise	9162 Oct 29 05:29	27° $\mathbb{A}$ 45'12		conjunction	9169 Jan 02 08:11	16° $\mathbb{B}$ 01'08	1°50'13
	9162 Nov 17 01:35	0° $\mathbb{M}$		minimum elong	9169 Jan 02 08:13	16° $\mathbb{B}$ 01'08	1°50'30
retrograde	9163 Feb 10 21:03	5° $\mathbb{M}$ 40'11		max. Earth dist.	9169 Jan 02 00:29	15° $\mathbb{B}$ 58'42	10.34772 AU
opposition	9163 Apr 19 18:27	2° $\mathbb{M}$ 13'14	1°27'48	morning rise	9169 Jan 19 20:35	18° $\mathbb{B}$ 12'52	
min. Earth dist.	9163 Apr 19 19:30	2° $\mathbb{M}$ 13'01	8.31026 AU	retrograde	9169 May 01 17:11	25° $\mathbb{B}$ 55'45	
	9163 May 19 17:47	30° $\mathbb{R}$ $\mathbb{A}$		opposition	9169 Jul 07 22:20	22° $\mathbb{B}$ 32'46	2°09'56
direct	9163 Jun 26 05:53	28° $\mathbb{A}$ 47'03		min. Earth dist.	9169 Jul 08 03:55	22° $\mathbb{B}$ 31'39	8.37012 AU
	9163 Aug 02 07:47	0° $\mathbb{M}$		direct	9169 Sep 14 21:31	19° $\mathbb{B}$ 05'31	
evening set	9163 Oct 07 14:04	6° $\mathbb{M}$ 37'38		evening set	9169 Dec 29 13:25	27° $\mathbb{B}$ 01'13	
conjunction	9163 Oct 25 11:00	8° $\mathbb{M}$ 52'07	1°21'10	conjunction	9170 Jan 16 02:56	29° $\mathbb{B}$ 12'46	1°37'54
minimum elong	9163 Oct 25 10:58	8° $\mathbb{M}$ 52'06	1°21'20	minimum elong	9170 Jan 16 02:58	29° $\mathbb{B}$ 12'47	1°38'09
max. Earth dist.	9163 Oct 25 08:49	8° $\mathbb{M}$ 51'26	10.29632 AU	max. Earth dist.	9170 Jan 15 19:26	29° $\mathbb{B}$ 10'25	10.39198 AU
morning rise	9163 Nov 12 08:24	11° $\mathbb{M}$ 06'50			9170 Jan 22 09:12	0° $\mathbb{A}$	
	9163 Dec 16 02:53	15° $\mathbb{M}$		morning rise	9170 Feb 02 12:55	1° $\mathbb{A}$ 23'17	
retrograde	9164 Feb 24 15:23	19° $\mathbb{M}$ 02'24		retrograde	9170 May 14 23:05	9° $\mathbb{A}$ 01'44	
opposition	9164 May 02 05:39	15° $\mathbb{M}$ 35'48	1°52'27	opposition	9170 Jul 21 08:29	5° $\mathbb{A}$ 39'31	1°51'23
min. Earth dist.	9164 May 02 07:26	15° $\mathbb{M}$ 35'26	8.28697 AU	min. Earth dist.	9170 Jul 21 14:03	5° $\mathbb{A}$ 38'25	8.41698 AU
	9164 May 09 15:39	15° $\mathbb{R}$ $\mathbb{M}$		direct	9170 Sep 28 15:31	2° $\mathbb{A}$ 12'45	
direct	9164 Jul 08 19:36	12° $\mathbb{M}$ 09'02		evening set	9171 Jan 12 04:42	10° $\mathbb{A}$ 05'01	
	9164 Sep 05 00:12	15° $\mathbb{M}$					
evening set	9164 Oct 20 19:51	20° $\mathbb{M}$ 03'41		conjunction	9171 Jan 29 16:06	12° $\mathbb{A}$ 15'21	1°20'37
				minimum elong	9171 Jan 29 16:08	12° $\mathbb{A}$ 15'22	1°20'50
conjunction	9164 Nov 07 16:42	22° $\mathbb{M}$ 18'29	1°38'43	max. Earth dist.	9171 Jan 29 08:58	12° $\mathbb{A}$ 13'07	10.44146 AU
minimum elong	9164 Nov 07 16:40	22° $\mathbb{M}$ 18'29	1°38'56	morning rise	9171 Feb 15 23:43	14° $\mathbb{A}$ 24'36	
max. Earth dist.	9164 Nov 07 13:14	22° $\mathbb{M}$ 17'24	10.27934 AU		9171 Feb 20 20:03	15° $\mathbb{A}$	
morning rise	9164 Nov 25 13:04	24° $\mathbb{M}$ 33'13		retrograde	9171 May 28 02:20	21° $\mathbb{A}$ 58'48	
	9165 Jan 14 14:59	0° $\mathbb{A}$		opposition	9171 Aug 03 16:59	18° $\mathbb{A}$ 37'18	1°27'20
retrograde	9165 Mar 09 11:03	2° $\mathbb{A}$ 28'17		min. Earth dist.	9171 Aug 03 22:43	18° $\mathbb{A}$ 36'11	8.46791 AU
	9165 May 03 16:44	30° $\mathbb{R}$ $\mathbb{M}$		direct	9171 Oct 12 06:26	15° $\mathbb{A}$ 11'11	
opposition	9165 May 15 18:17	29° $\mathbb{M}$ 02'14	2°11'04	evening set	9172 Jan 25 14:16	22° $\mathbb{A}$ 59'22	
min. Earth dist.	9165 May 15 21:12	29° $\mathbb{M}$ 01'38	8.27724 AU				
direct	9165 Jul 22 11:26	25° $\mathbb{M}$ 35'01		conjunction	9172 Feb 11 23:19	25° $\mathbb{A}$ 08'24	0°59'26
	9165 Oct 04 17:06	0° $\mathbb{A}$		minimum elong	9172 Feb 11 23:21	25° $\mathbb{A}$ 08'25	0°59'36
evening set	9165 Nov 04 03:15	3° $\mathbb{A}$ 32'43		max. Earth dist.	9172 Feb 11 16:21	25° $\mathbb{A}$ 06'14	10.49412 AU
				morning rise	9172 Feb 29 04:45	27° $\mathbb{A}$ 16'24	
conjunction	9165 Nov 21 23:20	5° $\mathbb{A}$ 47'26	1°50'54		9172 Mar 23 14:29	0° $\mathbb{H}$	
minimum elong	9165 Nov 21 23:18	5° $\mathbb{A}$ 47'26	1°51'10	retrograde	9172 Jun 09 02:48	4° $\mathbb{H}$ 46'37	
max. Earth dist.	9165 Nov 21 18:19	5° $\mathbb{A}$ 45'51	10.27634 AU	opposition	9172 Aug 15 23:29	1° $\mathbb{H}$ 25'45	0°59'13
morning rise	9165 Dec 09 18:09	8° $\mathbb{A}$ 01'50		min. Earth dist.	9172 Aug 16 05:01	1° $\mathbb{H}$ 24'40	8.52124 AU
retrograde	9166 Mar 23 04:27	15° $\mathbb{A}$ 55'15			9172 Sep 03 22:55	30° $\mathbb{R}$ $\mathbb{A}$	

direct	9172 Oct 24 17:51	28° $\approx$ 00'20			9178 Jun 15 19:00	15° $\mathcal{B}$
	9172 Dec 13 07:46	0° $\mathcal{H}$		retrograde	9178 Aug 22 20:29	18° $\mathcal{B}$ 36'58
evening set	9173 Feb 06 18:25	5° $\mathcal{H}$ 43'59		opposition	9178 Oct 31 17:44	15° $\mathcal{B}$ 16'23 -1°51'29
				min. Earth dist.	9178 Oct 31 14:42	15° $\mathcal{B}$ 16'58 8.77628 AU
conjunction	9173 Feb 24 00:58	7° $\mathcal{H}$ 51'41 0°35'33			9178 Nov 04 08:45	15° $\mathcal{R}\mathcal{B}$
minimum elong	9173 Feb 24 01:00	7° $\mathcal{H}$ 51'42 0°35'39		direct	9179 Jan 09 19:05	11° $\mathcal{B}$ 55'22
max. Earth dist.	9173 Feb 23 18:30	7° $\mathcal{H}$ 49'41 10.54822 AU			9179 Mar 13 07:41	15° $\mathcal{B}$
morning rise	9173 Mar 13 04:17	9° $\mathcal{H}$ 58'24		evening set	9179 Apr 21 17:03	19° $\mathcal{B}$ 14'07
retrograde	9173 Jun 21 21:38	17° $\mathcal{H}$ 25'03				
opposition	9173 Aug 29 03:39	14° $\mathcal{H}$ 04'37 0°28'34		conjunction	9179 May 08 10:41	21° $\mathcal{B}$ 15'10 -1°38'15
min. Earth dist.	9173 Aug 29 08:13	14° $\mathcal{H}$ 03'45 8.57509 AU		minimum elong	9179 May 08 10:39	21° $\mathcal{B}$ 15'09 1°38'28
direct	9173 Nov 07 03:41	10° $\mathcal{H}$ 39'59		max. Earth dist.	9179 May 08 14:58	21° $\mathcal{B}$ 16'28 10.78376 AU
evening set	9174 Feb 19 17:03	18° $\mathcal{H}$ 18'52		morning rise	9179 May 25 04:28	23° $\mathcal{B}$ 16'16
					9179 Aug 08 09:50	0° $\mathcal{I}$
conjunction	9174 Mar 08 21:06	20° $\mathcal{H}$ 25'11 0°10'13		retrograde	9179 Sep 04 07:48	0° $\mathcal{I}$ 36'16
minimum elong	9174 Mar 08 21:06	20° $\mathcal{H}$ 25'11 0°10'17			9179 Oct 01 16:09	30° $\mathcal{R}\mathcal{B}$
behind sun begin	9174 Mar 08 15:28	20° $\mathcal{H}$ 23'28		opposition	9179 Nov 13 10:52	27° $\mathcal{B}$ 15'18 -2°08'31
behind sun end	9174 Mar 09 02:45	20° $\mathcal{H}$ 26'55		min. Earth dist.	9179 Nov 13 05:56	27° $\mathcal{B}$ 16'14 8.79056 AU
max. Earth dist.	9174 Mar 08 16:06	20° $\mathcal{H}$ 23'40 10.60164 AU		direct	9180 Jan 22 08:26	23° $\mathcal{B}$ 54'47
morning rise	9174 Mar 25 22:15	22° $\mathcal{H}$ 30'38			9180 Apr 22 14:23	0° $\mathcal{I}$
retrograde	9174 Jul 04 15:08	29° $\mathcal{H}$ 54'20		evening set	9180 May 02 19:01	1° $\mathcal{I}$ 11'22
desc. node	9174 Aug 05 23:51	29° $\mathcal{H}$ 02'04				
opposition	9174 Sep 11 05:45	26° $\mathcal{H}$ 34'09 -0°03'03		conjunction	9180 May 19 12:06	3° $\mathcal{I}$ 12'06 -1°49'54
min. Earth dist.	9174 Sep 11 08:20	26° $\mathcal{H}$ 33'40 8.62722 AU		minimum elong	9180 May 19 12:04	3° $\mathcal{I}$ 12'05 1°50'10
direct	9174 Nov 20 10:12	23° $\mathcal{H}$ 10'21		max. Earth dist.	9180 May 19 18:23	3° $\mathcal{I}$ 14'00 10.79220 AU
	9175 Feb 26 05:20	0° $\mathcal{Y}$		morning rise	9180 Jun 05 05:50	5° $\mathcal{I}$ 13'04
evening set	9175 Mar 04 10:20	0° $\mathcal{Y}$ 44'22		retrograde	9180 Sep 15 21:49	12° $\mathcal{I}$ 34'34
				opposition	9180 Nov 25 03:25	9° $\mathcal{I}$ 13'09 -2°19'57
conjunction	9175 Mar 21 11:57	2° $\mathcal{Y}$ 49'21 -0°15'25		min. Earth dist.	9180 Nov 24 21:07	9° $\mathcal{I}$ 14'20 8.79356 AU
minimum elong	9175 Mar 21 11:56	2° $\mathcal{Y}$ 49'21 0°15'24		direct	9181 Feb 02 19:41	5° $\mathcal{I}$ 53'02
behind sun begin	9175 Mar 21 09:44	2° $\mathcal{Y}$ 48'41		evening set	9181 May 14 20:36	13° $\mathcal{I}$ 08'12
behind sun end	9175 Mar 21 14:08	2° $\mathcal{Y}$ 50'01				
max. Earth dist.	9175 Mar 21 09:33	2° $\mathcal{Y}$ 48'37 10.65204 AU		conjunction	9181 May 31 13:41	15° $\mathcal{I}$ 08'56 -1°56'47
morning rise	9175 Apr 07 10:55	4° $\mathcal{Y}$ 53'34		minimum elong	9181 May 31 13:40	15° $\mathcal{I}$ 08'56 1°57'04
retrograde	9175 Jul 17 07:56	12° $\mathcal{Y}$ 15'00		max. Earth dist.	9181 May 31 20:57	15° $\mathcal{I}$ 11'08 10.78931 AU
opposition	9175 Sep 24 05:37	8° $\mathcal{Y}$ 54'55 -0°34'09		morning rise	9181 Jun 17 08:13	17° $\mathcal{I}$ 10'07
min. Earth dist.	9175 Sep 24 06:21	8° $\mathcal{Y}$ 54'47 8.67534 AU		retrograde	9181 Sep 28 12:07	24° $\mathcal{I}$ 33'41
direct	9175 Dec 03 11:12	5° $\mathcal{Y}$ 31'54		opposition	9181 Dec 07 19:51	21° $\mathcal{I}$ 11'47 -2°25'20
evening set	9176 Mar 15 23:08	13° $\mathcal{Y}$ 01'18		min. Earth dist.	9181 Dec 07 13:12	21° $\mathcal{I}$ 13'02 8.78517 AU
				direct	9182 Feb 15 04:43	17° $\mathcal{I}$ 51'54
conjunction	9176 Apr 01 22:19	15° $\mathcal{Y}$ 05'02 -0°40'00		evening set	9182 May 26 22:48	25° $\mathcal{I}$ 06'28
minimum elong	9176 Apr 01 22:18	15° $\mathcal{Y}$ 05'01 0°40'03				
max. Earth dist.	9176 Apr 01 22:01	15° $\mathcal{Y}$ 04'56 10.69718 AU		conjunction	9182 Jun 12 16:42	27° $\mathcal{I}$ 07'33 -1°58'35
morning rise	9176 Apr 18 19:22	17° $\mathcal{Y}$ 08'10		minimum elong	9182 Jun 12 16:42	27° $\mathcal{I}$ 07'33 1°58'52
retrograde	9176 Jul 28 21:01	24° $\mathcal{Y}$ 28'01		max. Earth dist.	9182 Jun 13 00:04	27° $\mathcal{I}$ 09'47 10.77536 AU
opposition	9176 Oct 06 03:15	21° $\mathcal{Y}$ 07'54 -1°03'22		morning rise	9182 Jun 29 12:55	29° $\mathcal{I}$ 09'18
min. Earth dist.	9176 Oct 06 02:49	21° $\mathcal{Y}$ 07'59 8.71736 AU			9182 Jul 06 17:38	0° $\mathcal{G}$
direct	9176 Dec 15 07:51	17° $\mathcal{Y}$ 45'36		retrograde	9182 Oct 11 03:01	6° $\mathcal{G}$ 35'28
evening set	9177 Mar 28 08:05	25° $\mathcal{Y}$ 10'53		opposition	9182 Dec 20 12:25	3° $\mathcal{G}$ 12'59 -2°24'22
				min. Earth dist.	9182 Dec 20 05:40	3° $\mathcal{G}$ 14'16 8.76586 AU
conjunction	9177 Apr 14 04:55	27° $\mathcal{Y}$ 13'29 -1°02'36			9183 Feb 16 02:01	30° $\mathcal{R}\mathcal{I}$
minimum elong	9177 Apr 14 04:53	27° $\mathcal{Y}$ 13'28 1°02'43		direct	9183 Feb 27 14:47	29° $\mathcal{I}$ 53'10
max. Earth dist.	9177 Apr 14 05:51	27° $\mathcal{Y}$ 13'46 10.73516 AU			9183 Mar 11 02:33	0° $\mathcal{G}$
morning rise	9177 May 01 00:26	29° $\mathcal{Y}$ 15'42		evening set	9183 Jun 08 02:27	7° $\mathcal{G}$ 07'57
	9177 May 07 06:17	0° $\mathcal{B}$				
retrograde	9177 Aug 10 08:52	6° $\mathcal{B}$ 34'49		conjunction	9183 Jun 24 22:09	9° $\mathcal{G}$ 09'45 -1°55'11
opposition	9177 Oct 18 23:15	3° $\mathcal{B}$ 14'32 -1°29'29		minimum elong	9183 Jun 24 22:10	9° $\mathcal{G}$ 09'46 1°55'28
min. Earth dist.	9177 Oct 18 21:51	3° $\mathcal{B}$ 14'48 8.75149 AU		max. Earth dist.	9183 Jun 25 06:13	9° $\mathcal{G}$ 12'12 10.75096 AU
	9177 Dec 16 04:54	30° $\mathcal{R}\mathcal{Y}$		morning rise	9183 Jul 11 20:41	11° $\mathcal{G}$ 12'22
direct	9177 Dec 28 03:18	29° $\mathcal{Y}$ 52'53		retrograde	9183 Oct 23 21:39	18° $\mathcal{G}$ 41'31
	9178 Jan 09 00:13	0° $\mathcal{B}$		opposition	9184 Jan 02 05:29	15° $\mathcal{G}$ 18'27 -2°17'03
evening set	9178 Apr 09 13:43	7° $\mathcal{B}$ 14'35		min. Earth dist.	9184 Jan 01 22:16	15° $\mathcal{G}$ 19'49 8.73639 AU
				direct	9184 Mar 11 01:27	11° $\mathcal{G}$ 58'33
conjunction	9178 Apr 26 08:36	9° $\mathcal{B}$ 16'15 -1°22'17		evening set	9184 Jun 19 08:41	19° $\mathcal{G}$ 14'21
minimum elong	9178 Apr 26 08:34	9° $\mathcal{B}$ 16'15 1°22'26				
max. Earth dist.	9178 Apr 26 10:43	9° $\mathcal{B}$ 16'54 10.76444 AU		conjunction	9184 Jul 06 06:55	21° $\mathcal{G}$ 17'10 -1°46'38
morning rise	9178 May 13 03:01	11° $\mathcal{B}$ 17'47		minimum elong	9184 Jul 06 06:57	21° $\mathcal{G}$ 17'11 1°46'54

max. Earth dist.	9184 Jul 06 16:01	21°♄19'57	10.71707 AU	evening set	9190 Sep 04 00:51	4°♄41'46	
morning rise	9184 Jul 23 08:14	23°♄20'57					
	9184 Oct 02 21:03	0°♄		conjunction	9190 Sep 21 18:29	6°♄53'38	0°23'18
retrograde	9184 Nov 04 18:50	0°♄53'22		minimum elong	9190 Sep 21 18:28	6°♄53'37	0°23'18
	9184 Dec 08 02:12	30°♄		max. Earth dist.	9190 Sep 21 20:19	6°♄54'12	10.41586 AU
opposition	9185 Jan 13 23:28	27°♄29'40	-2°03'32	morning rise	9190 Oct 09 14:29	9°♄06'17	
min. Earth dist.	9185 Jan 13 15:37	27°♄31'11	8.69805 AU	retrograde	9191 Jan 22 16:15	16°♄57'35	
direct	9185 Mar 23 12:06	24°♄09'34		opposition	9191 Apr 01 00:04	13°♄31'15	0°45'06
	9185 Jun 19 08:41	0°♄		min. Earth dist.	9191 Mar 31 23:11	13°♄31'25	8.39165 AU
evening set	9185 Jul 01 18:31	1°♄27'10		direct	9191 Jun 07 09:10	10°♄06'53	
				evening set	9191 Sep 17 19:41	17°♄49'07	
conjunction	9185 Jul 18 19:47	3°♄31'18	-1°33'13				
minimum elong	9185 Jul 18 19:49	3°♄31'18	1°33'27	conjunction	9191 Oct 05 15:05	20°♄02'09	0°48'54
max. Earth dist.	9185 Jul 19 05:00	3°♄34'07	10.67530 AU	minimum elong	9191 Oct 05 15:03	20°♄02'08	0°48'58
morning rise	9185 Aug 05 00:27	5°♄36'27		max. Earth dist.	9191 Oct 05 14:21	20°♄01'55	10.36914 AU
retrograde	9185 Nov 17 19:17	13°♄12'19		morning rise	9191 Oct 23 12:16	22°♄15'46	
opposition	9186 Jan 26 18:54	9°♄48'01	-1°44'16		9192 Jan 23 08:30	0°♄	
min. Earth dist.	9186 Jan 26 11:21	9°♄49'29	8.65271 AU	retrograde	9192 Feb 05 07:42	0°♄08'58	
direct	9186 Apr 05 00:27	6°♄27'32			9192 Feb 18 06:37	30°♄	
evening set	9186 Jul 14 08:40	13°♄47'42		opposition	9192 Apr 13 07:45	26°♄42'36	1°15'36
	9186 Jul 24 07:10	15°♄		min. Earth dist.	9192 Apr 13 08:49	26°♄42'23	8.34920 AU
				direct	9192 Jun 19 17:47	23°♄17'21	
conjunction	9186 Jul 31 13:18	15°♄53'20	-1°15'22		9192 Sep 21 22:29	0°♄	
minimum elong	9186 Jul 31 13:21	15°♄53'20	1°15'34	evening set	9192 Sep 30 19:18	1°♄04'37	
max. Earth dist.	9186 Jul 31 21:24	15°♄55'49	10.62755 AU				
morning rise	9186 Aug 17 21:42	18°♄00'04		conjunction	9192 Oct 18 15:41	3°♄18'30	1°12'08
retrograde	9186 Nov 30 23:24	25°♄39'22		minimum elong	9192 Oct 18 15:39	3°♄18'29	1°12'16
opposition	9187 Feb 08 15:59	22°♄14'32	-1°19'55	max. Earth dist.	9192 Oct 18 12:22	3°♄17'27	10.33119 AU
min. Earth dist.	9187 Feb 08 09:41	22°♄15'46	8.60236 AU	morning rise	9192 Nov 05 13:11	5°♄32'44	
direct	9187 Apr 17 14:13	18°♄53'29		retrograde	9193 Feb 18 00:21	13°♄27'00	
evening set	9187 Jul 27 04:05	26°♄16'59		opposition	9193 Apr 26 17:24	10°♄00'44	1°42'19
				min. Earth dist.	9193 Apr 26 20:21	10°♄00'09	8.31700 AU
conjunction	9187 Aug 13 12:16	28°♄24'12	-0°53'48	direct	9193 Jul 03 05:52	6°♄34'37	
minimum elong	9187 Aug 13 12:18	28°♄24'13	0°53'57	evening set	9193 Oct 14 22:51	14°♄26'24	
max. Earth dist.	9187 Aug 13 18:47	28°♄26'12	10.57578 AU		9193 Oct 19 11:07	15°♄	
	9187 Aug 26 12:48	0°♄					
morning rise	9187 Aug 31 00:21	0°♄32'33		conjunction	9193 Nov 01 19:32	16°♄40'46	1°31'39
retrograde	9187 Dec 14 04:23	8°♄15'12		minimum elong	9193 Nov 01 19:29	16°♄40'46	1°31'51
opposition	9188 Feb 21 14:48	4°♄49'52	-0°51'28	max. Earth dist.	9193 Nov 01 14:23	16°♄39'09	10.30452 AU
min. Earth dist.	9188 Feb 21 10:01	4°♄50'49	8.54906 AU	morning rise	9193 Nov 19 16:27	18°♄55'15	
direct	9188 Apr 29 08:29	1°♄28'06		retrograde	9194 Mar 03 17:41	26°♄49'32	
evening set	9188 Aug 08 05:03	8°♄55'36		opposition	9194 May 10 04:25	23°♄23'31	2°03'41
				min. Earth dist.	9194 May 10 08:32	23°♄22'42	8.29697 AU
conjunction	9188 Aug 25 16:48	11°♄04'26	-0°29'24	direct	9194 Jul 16 20:49	19°♄56'41	
minimum elong	9188 Aug 25 16:49	11°♄04'27	0°29'31	evening set	9194 Oct 29 04:40	27°♄52'04	
max. Earth dist.	9188 Aug 25 22:06	11°♄06'04	10.52197 AU		9194 Nov 15 04:13	0°♄	
morning rise	9188 Sep 12 08:08	13°♄14'22					
retrograde	9188 Dec 26 12:29	21°♄00'12		conjunction	9194 Nov 16 00:59	0°♄07'34	1°46'17
opposition	9189 Mar 05 15:44	17°♄34'24	-0°20'08	minimum elong	9194 Nov 16 00:57	0°♄06'34	1°46'31
min. Earth dist.	9189 Mar 05 12:03	17°♄35'08	8.49478 AU	max. Earth dist.	9194 Nov 15 18:43	0°♄04'35	10.29069 AU
direct	9189 May 12 06:23	14°♄11'50		morning rise	9194 Dec 03 20:33	2°♄20'54	
evening set	9189 Aug 21 11:49	21°♄43'48		retrograde	9195 Mar 17 10:00	10°♄14'09	
				opposition	9195 May 23 16:35	6°♄48'32	2°18'23
conjunction	9189 Sep 08 02:51	23°♄54'14	-0°03'21	min. Earth dist.	9195 May 23 21:17	6°♄47'35	8.29017 AU
minimum elong	9189 Sep 08 02:50	23°♄54'14	0°03'24	direct	9195 Jul 30 15:19	3°♄21'09	
behind sun begin	9189 Sep 07 19:39	23°♄52'02		evening set	9195 Nov 12 10:50	11°♄18'55	
behind sun end	9189 Sep 08 10:01	23°♄56'26					
max. Earth dist.	9189 Sep 08 06:50	23°♄55'26	10.46794 AU	conjunction	9195 Nov 30 06:13	13°♄33'13	1°55'08
morning rise	9189 Sep 25 20:52	26°♄05'37		minimum elong	9195 Nov 30 06:12	13°♄33'12	1°55'25
asc. node	9189 Oct 25 03:20	29°♄26'39		max. Earth dist.	9195 Nov 29 23:25	13°♄31'03	10.29043 AU
	9189 Oct 30 13:12	0°♄		morning rise	9195 Dec 17 23:53	15°♄47'03	
retrograde	9190 Jan 09 00:57	3°♄54'24		retrograde	9196 Mar 30 01:02	23°♄38'16	
opposition	9190 Mar 18 18:49	0°♄28'15	0°12'36	opposition	9196 Jun 05 05:13	20°♄13'10	2°25'32
min. Earth dist.	9190 Mar 18 16:17	0°♄28'45	8.44136 AU	min. Earth dist.	9196 Jun 05 10:20	20°♄12'08	8.29685 AU
	9190 Mar 24 17:30	30°♄		direct	9196 Aug 12 10:30	16°♄45'25	
direct	9190 May 25 06:02	27°♄04'48		evening set	9196 Nov 25 15:54	24°♄44'12	
	9190 Jul 23 05:22	0°♄					



conjunction	9196 Dec 13 09:56	26° $\mathbb{X}$ 57'59	1°57'44	conjunction	9203 Mar 03 08:56	14° $\mathbb{X}$ 54'50	0°22'00
minimum elong	9196 Dec 13 09:56	26° $\mathbb{X}$ 57'59	1°58'02	minimum elong	9203 Mar 03 08:57	14° $\mathbb{X}$ 54'50	0°22'05
max. Earth dist.	9196 Dec 13 02:36	26° $\mathbb{X}$ 55'40	10.30368 AU	max. Earth dist.	9203 Mar 03 05:11	14° $\mathbb{X}$ 53'41	10.57962 AU
morning rise	9196 Dec 31 01:28	29° $\mathbb{X}$ 11'05		morning rise	9203 Mar 20 10:57	17° $\mathbb{X}$ 00'44	
	9197 Jan 06 16:57	0° $\mathbb{Z}$		retrograde	9203 Jun 29 03:52	24° $\mathbb{X}$ 25'09	
retrograde	9197 Apr 12 14:42	6° $\mathbb{Z}$ 59'16		opposition	9203 Sep 05 14:08	21° $\mathbb{X}$ 04'40	0°11'36
opposition	9197 Jun 18 17:36	3° $\mathbb{Z}$ 34'48	2°24'46	min. Earth dist.	9203 Sep 05 16:53	21° $\mathbb{X}$ 04'09	8.60782 AU
min. Earth dist.	9197 Jun 18 23:35	3° $\mathbb{Z}$ 33'36	8.31654 AU	direct	9203 Nov 14 16:24	17° $\mathbb{X}$ 40'21	
direct	9197 Aug 26 05:32	0° $\mathbb{Z}$ 06'53		desc. node	9204 Jan 21 22:27	21° $\mathbb{X}$ 16'58	
evening set	9197 Dec 09 18:16	8° $\mathbb{Z}$ 05'15		evening set	9204 Feb 26 22:41	25° $\mathbb{X}$ 15'59	
conjunction	9197 Dec 27 10:35	10° $\mathbb{Z}$ 18'17	1°53'58	conjunction	9204 Mar 15 01:25	27° $\mathbb{X}$ 21'28	-0°03'39
minimum elong	9197 Dec 27 10:36	10° $\mathbb{Z}$ 18'17	1°54'16	minimum elong	9204 Mar 15 01:23	27° $\mathbb{X}$ 21'28	0°03'37
max. Earth dist.	9197 Dec 27 02:22	10° $\mathbb{Z}$ 15'41	10.32956 AU	behind sun begin	9204 Mar 14 18:22	27° $\mathbb{X}$ 19'20	
morning rise	9198 Jan 13 23:55	12° $\mathbb{Z}$ 30'27		behind sun end	9204 Mar 15 08:25	27° $\mathbb{X}$ 23'36	
retrograde	9198 Apr 26 01:42	20° $\mathbb{Z}$ 14'50		max. Earth dist.	9204 Mar 14 22:33	27° $\mathbb{X}$ 20'38	10.63554 AU
opposition	9198 Jul 02 05:21	16° $\mathbb{Z}$ 51'05	2°16'15	morning rise	9204 Apr 01 01:23	29° $\mathbb{X}$ 26'07	
min. Earth dist.	9198 Jul 02 12:04	16° $\mathbb{Z}$ 49'45	8.34802 AU		9204 Apr 05 18:42	0° $\mathbb{Y}$	
direct	9198 Sep 09 00:44	13° $\mathbb{Z}$ 23'14		retrograde	9204 Jul 10 19:38	6° $\mathbb{Y}$ 47'52	
evening set	9198 Dec 23 16:28	21° $\mathbb{Z}$ 19'51		opposition	9204 Sep 17 14:24	3° $\mathbb{Y}$ 27'48	-0°19'51
conjunction	9199 Jan 10 06:47	23° $\mathbb{Z}$ 31'53	1°44'12	min. Earth dist.	9204 Sep 17 16:06	3° $\mathbb{Y}$ 27'28	8.66193 AU
minimum elong	9199 Jan 10 06:49	23° $\mathbb{Z}$ 31'53	1°44'28	direct	9204 Nov 26 18:40	0° $\mathbb{Y}$ 04'28	
max. Earth dist.	9199 Jan 09 22:06	23° $\mathbb{Z}$ 29'09	10.36653 AU	evening set	9205 Mar 10 13:09	7° $\mathbb{Y}$ 35'26	
morning rise	9199 Jan 27 17:54	25° $\mathbb{Z}$ 42'57		conjunction	9205 Mar 27 13:17	9° $\mathbb{Y}$ 39'34	-0°28'43
	9199 Mar 06 17:56	0° $\mathbb{X}$		minimum elong	9205 Mar 27 13:15	9° $\mathbb{Y}$ 39'34	0°28'45
retrograde	9199 May 09 07:20	3° $\mathbb{X}$ 23'08		max. Earth dist.	9205 Mar 27 11:49	9° $\mathbb{Y}$ 39'07	10.68714 AU
opposition	9199 Jul 15 15:49	0° $\mathbb{X}$ 00'06	2°00'37	morning rise	9205 Apr 13 11:18	11° $\mathbb{Y}$ 43'04	
	9199 Jul 15 16:21	30° $\mathbb{R}$ $\mathbb{Z}$		retrograde	9205 Jul 23 08:32	19° $\mathbb{Y}$ 02'56	
min. Earth dist.	9199 Jul 15 22:34	29° $\mathbb{Z}$ 58'46	8.38955 AU	opposition	9205 Sep 30 12:31	15° $\mathbb{Y}$ 43'05	-0°50'00
direct	9199 Sep 22 20:16	26° $\mathbb{Z}$ 32'35		min. Earth dist.	9205 Sep 30 12:21	15° $\mathbb{Y}$ 43'07	8.71067 AU
	9199 Nov 27 17:02	0° $\mathbb{X}$		direct	9205 Dec 09 18:18	12° $\mathbb{Y}$ 20'44	
evening set	9200 Jan 06 09:38	4° $\mathbb{X}$ 26'14		evening set	9206 Mar 22 23:25	19° $\mathbb{Y}$ 47'22	
conjunction	9200 Jan 23 21:54	6° $\mathbb{X}$ 37'07	1°29'04	conjunction	9206 Apr 08 21:15	21° $\mathbb{Y}$ 50'18	-0°52'19
minimum elong	9200 Jan 23 21:56	6° $\mathbb{X}$ 37'07	1°29'19	minimum elong	9206 Apr 08 21:13	21° $\mathbb{Y}$ 50'17	0°52'24
max. Earth dist.	9200 Jan 23 13:30	6° $\mathbb{X}$ 34'29	10.41266 AU	max. Earth dist.	9206 Apr 08 22:09	21° $\mathbb{Y}$ 50'34	10.73217 AU
morning rise	9200 Feb 10 06:48	8° $\mathbb{X}$ 46'58		morning rise	9206 Apr 25 17:26	23° $\mathbb{Y}$ 52'46	
	9200 Apr 11 20:25	15° $\mathbb{X}$			9206 Jun 28 03:53	0° $\mathbb{Z}$	
retrograde	9200 May 21 10:35	16° $\mathbb{X}$ 22'48		retrograde	9206 Aug 04 22:24	1° $\mathbb{Z}$ 11'35	
	9200 Jun 30 22:31	15° $\mathbb{R}$ $\mathbb{X}$			9206 Sep 12 15:08	30° $\mathbb{R}$ $\mathbb{Y}$	
opposition	9200 Jul 28 00:27	13° $\mathbb{X}$ 00'29	1°38'56	opposition	9206 Oct 13 08:57	27° $\mathbb{Y}$ 51'47	-1°17'38
min. Earth dist.	9200 Jul 28 06:16	12° $\mathbb{X}$ 59'20	8.43899 AU	min. Earth dist.	9206 Oct 13 06:43	27° $\mathbb{Y}$ 52'13	8.75194 AU
direct	9200 Oct 05 12:40	9° $\mathbb{X}$ 33'31		direct	9206 Dec 22 14:29	24° $\mathbb{Y}$ 30'20	
	9200 Dec 29 14:11	15° $\mathbb{X}$			9207 Mar 18 22:36	0° $\mathbb{Z}$	
evening set	9201 Jan 18 21:12	17° $\mathbb{X}$ 23'18		evening set	9207 Apr 04 06:09	1° $\mathbb{Z}$ 53'05	
conjunction	9201 Feb 05 07:23	19° $\mathbb{X}$ 32'55	1°09'33	conjunction	9207 Apr 21 01:59	3° $\mathbb{Z}$ 55'00	-1°13'25
minimum elong	9201 Feb 05 07:25	19° $\mathbb{X}$ 32'56	1°09'44	minimum elong	9207 Apr 21 01:57	3° $\mathbb{Z}$ 55'00	1°13'33
max. Earth dist.	9201 Feb 05 00:22	19° $\mathbb{X}$ 30'44	10.46544 AU	max. Earth dist.	9207 Apr 21 05:09	3° $\mathbb{Z}$ 55'58	10.76867 AU
morning rise	9201 Feb 22 14:00	21° $\mathbb{X}$ 41'28		morning rise	9207 May 07 20:41	5° $\mathbb{Z}$ 56'38	
retrograde	9201 Jun 03 11:44	29° $\mathbb{X}$ 13'04		retrograde	9207 Aug 17 10:57	13° $\mathbb{Z}$ 15'09	
opposition	9201 Aug 10 07:06	25° $\mathbb{X}$ 51'26	1°12'31	opposition	9207 Oct 26 03:47	9° $\mathbb{Z}$ 55'17	-1°41'36
min. Earth dist.	9201 Aug 10 11:35	25° $\mathbb{X}$ 50'33	8.49366 AU	min. Earth dist.	9207 Oct 26 00:15	9° $\mathbb{Z}$ 55'56	8.78385 AU
direct	9201 Oct 19 01:11	22° $\mathbb{X}$ 25'14		direct	9208 Jan 04 05:40	6° $\mathbb{Z}$ 34'36	
	9202 Jan 30 16:25	0° $\mathbb{X}$		evening set	9208 Apr 15 10:28	13° $\mathbb{Z}$ 54'05	
evening set	9202 Feb 01 03:09	0° $\mathbb{X}$ 10'32			9208 Apr 24 14:18	15° $\mathbb{Z}$	
conjunction	9202 Feb 18 11:02	2° $\mathbb{X}$ 18'48	0°46'47	conjunction	9208 May 02 04:36	15° $\mathbb{Z}$ 55'13	-1°31'09
minimum elong	9202 Feb 18 11:03	2° $\mathbb{X}$ 18'49	0°46'55	minimum elong	9208 May 02 04:34	15° $\mathbb{Z}$ 55'13	1°31'21
max. Earth dist.	9202 Feb 18 05:53	2° $\mathbb{X}$ 17'12	10.52202 AU	max. Earth dist.	9208 May 02 08:41	15° $\mathbb{Z}$ 56'27	10.79489 AU
morning rise	9202 Mar 07 15:17	4° $\mathbb{X}$ 26'02		morning rise	9208 May 18 22:27	17° $\mathbb{Z}$ 56'18	
retrograde	9202 Jun 16 09:11	11° $\mathbb{X}$ 53'45		retrograde	9208 Aug 28 21:43	25° $\mathbb{Z}$ 15'13	
opposition	9202 Aug 23 11:42	8° $\mathbb{X}$ 32'45	0°42'54	opposition	9208 Nov 06 21:16	21° $\mathbb{Z}$ 55'07	-2°00'59
min. Earth dist.	9202 Aug 23 15:10	8° $\mathbb{X}$ 32'05	8.55082 AU	min. Earth dist.	9208 Nov 06 17:21	21° $\mathbb{Z}$ 55'51	8.80472 AU
direct	9202 Nov 01 10:23	5° $\mathbb{X}$ 07'28		direct	9209 Jan 15 19:24	18° $\mathbb{Z}$ 35'01	
evening set	9203 Feb 14 03:35	12° $\mathbb{X}$ 47'58		evening set	9209 Apr 27 12:59	25° $\mathbb{Z}$ 52'01	

conjunction	9209 May 14 06:00	27° <b>8</b> 52'38	-1°44'52	max. Earth dist.	9215 Jul 26 06:09	10° <b>Ω</b> 23'43	10.64398 AU
minimum elong	9209 May 14 05:58	27° <b>8</b> 52'38	1°45'06	morning rise	9215 Aug 12 05:45	12° <b>Ω</b> 27'36	
max. Earth dist.	9209 May 14 10:30	27° <b>8</b> 54'00	10.80936 AU		9215 Sep 03 08:32	15° <b>Ω</b>	
morning rise	9209 May 30 23:39	29° <b>8</b> 53'26		retrograde	9215 Nov 25 03:15	20° <b>Ω</b> 05'30	
	9209 May 31 21:50	0° <b>Π</b>		opposition	9216 Feb 03 00:06	16° <b>Ω</b> 40'37	-1°31'53
retrograde	9209 Sep 10 10:02	7° <b>Π</b> 13'32		min. Earth dist.	9216 Feb 02 18:25	16° <b>Ω</b> 41'43	8.61700 AU
opposition	9209 Nov 19 14:01	3° <b>Π</b> 53'02	-2°15'05		9216 Feb 25 15:23	15° <b>℞</b> <b>Ω</b>	
min. Earth dist.	9209 Nov 19 09:30	3° <b>Π</b> 53'53	8.81303 AU	direct	9216 Apr 11 03:13	13° <b>Ω</b> 19'27	
direct	9210 Jan 28 08:18	0° <b>Π</b> 33'22			9216 May 25 08:50	15° <b>Ω</b>	
evening set	9210 May 09 14:24	7° <b>Π</b> 48'36		evening set	9216 Jul 20 12:42	20° <b>Ω</b> 41'37	
conjunction	9210 May 26 07:13	9° <b>Π</b> 49'06	-1°54'01	conjunction	9216 Aug 06 19:22	22° <b>Ω</b> 48'12	-1°04'18
minimum elong	9210 May 26 07:12	9° <b>Π</b> 49'06	1°54'17	minimum elong	9216 Aug 06 19:24	22° <b>Ω</b> 48'12	1°04'29
max. Earth dist.	9210 May 26 12:42	9° <b>Π</b> 50'46	10.81072 AU	max. Earth dist.	9216 Aug 07 02:16	22° <b>Ω</b> 50'19	10.58821 AU
morning rise	9210 Jun 12 01:17	11° <b>Π</b> 49'58		morning rise	9216 Aug 24 05:37	24° <b>Ω</b> 55'54	
retrograde	9210 Sep 22 22:51	19° <b>Π</b> 11'59			9216 Oct 10 23:10	0° <b>℞</b>	
opposition	9210 Dec 02 06:18	15° <b>Π</b> 50'58	-2°23'20	retrograde	9216 Dec 07 08:19	2° <b>℞</b> 37'25	
min. Earth dist.	9210 Dec 02 00:46	15° <b>Π</b> 52'00	8.80776 AU		9217 Feb 04 13:28	30° <b>℞</b> <b>Ω</b>	
direct	9211 Feb 09 18:43	12° <b>Π</b> 31'33		opposition	9217 Feb 14 22:11	29° <b>Ω</b> 11'48	-1°05'14
evening set	9211 May 21 16:06	19° <b>Π</b> 45'56		min. Earth dist.	9217 Feb 14 16:51	29° <b>Ω</b> 12'51	8.55947 AU
				direct	9217 Apr 23 18:48	25° <b>Ω</b> 49'52	
conjunction	9211 Jun 07 09:35	21° <b>Π</b> 46'41	-1°58'13		9217 Jul 04 18:02	0° <b>℞</b>	
minimum elong	9211 Jun 07 09:35	21° <b>Π</b> 46'40	1°58'30	evening set	9217 Aug 02 11:01	3° <b>℞</b> 15'51	
max. Earth dist.	9211 Jun 07 16:27	21° <b>Π</b> 48'45	10.79861 AU				
morning rise	9211 Jun 24 04:45	23° <b>Π</b> 47'58		conjunction	9217 Aug 19 21:13	5° <b>℞</b> 24'07	-0°41'06
	9211 Aug 28 00:37	0° <b>☾</b>		minimum elong	9217 Aug 19 21:15	5° <b>℞</b> 24'08	0°41'14
retrograde	9211 Oct 05 14:07	1° <b>☾</b> 12'31		max. Earth dist.	9217 Aug 20 02:48	5° <b>℞</b> 25'50	10.53017 AU
	9211 Nov 13 23:07	30° <b>℞</b> <b>Π</b>		morning rise	9217 Sep 06 11:02	7° <b>℞</b> 33'29	
opposition	9211 Dec 14 22:28	27° <b>Π</b> 50'51	-2°25'23	retrograde	9217 Dec 20 16:05	15° <b>℞</b> 18'29	
min. Earth dist.	9211 Dec 14 16:05	27° <b>Π</b> 52'03	8.78928 AU	opposition	9218 Feb 27 22:19	11° <b>℞</b> 52'16	-0°35'04
direct	9212 Feb 22 04:50	24° <b>Π</b> 31'29		min. Earth dist.	9218 Feb 27 18:14	11° <b>℞</b> 53'04	8.50107 AU
	9212 May 17 12:30	0° <b>☾</b>		direct	9218 May 06 14:08	8° <b>℞</b> 29'27	
evening set	9212 Jun 01 19:04	1° <b>☾</b> 45'52		evening set	9218 Aug 15 15:15	15° <b>℞</b> 59'53	
conjunction	9212 Jun 18 13:52	3° <b>☾</b> 47'13	-1°57'17	conjunction	9218 Sep 02 04:47	18° <b>℞</b> 09'48	-0°15'38
minimum elong	9212 Jun 18 13:53	3° <b>☾</b> 47'13	1°57'34	minimum elong	9218 Sep 02 04:47	18° <b>℞</b> 09'49	0°15'43
max. Earth dist.	9212 Jun 18 20:59	3° <b>☾</b> 49'23	10.77413 AU	behind sun begin	9218 Sep 02 03:39	18° <b>℞</b> 09'28	
morning rise	9212 Jul 05 11:01	5° <b>☾</b> 49'17		behind sun end	9218 Sep 02 05:55	18° <b>℞</b> 10'09	
retrograde	9212 Oct 17 08:52	13° <b>☾</b> 16'48		max. Earth dist.	9218 Sep 02 08:13	18° <b>℞</b> 10'52	10.47251 AU
opposition	9212 Dec 26 15:21	9° <b>☾</b> 54'23	-2°21'06	morning rise	9218 Sep 19 21:47	20° <b>℞</b> 20'47	
min. Earth dist.	9212 Dec 26 09:01	9° <b>☾</b> 55'35	8.75909 AU	retrograde	9219 Jan 03 02:59	28° <b>℞</b> 08'58	
direct	9213 Mar 05 13:49	6° <b>☾</b> 34'51		opposition	9219 Mar 13 00:43	24° <b>℞</b> 42'17	-0°02'44
evening set	9213 Jun 14 00:01	13° <b>☾</b> 49'59		min. Earth dist.	9219 Mar 12 22:25	24° <b>℞</b> 42'45	8.44452 AU
				asc. node	9219 Apr 13 07:46	22° <b>℞</b> 26'14	
conjunction	9213 Jun 30 20:50	15° <b>☾</b> 52'15	-1°51'10	direct	9219 May 19 12:44	21° <b>℞</b> 18'33	
minimum elong	9213 Jun 30 20:51	15° <b>☾</b> 52'16	1°51'26	evening set	9219 Aug 29 01:38	28° <b>℞</b> 53'54	
max. Earth dist.	9213 Jul 01 03:36	15° <b>☾</b> 54'19	10.73896 AU		9219 Sep 07 00:15	0° <b>♄</b>	
morning rise	9213 Jul 17 20:45	17° <b>☾</b> 55'25					
retrograde	9213 Oct 30 03:29	25° <b>☾</b> 26'13		conjunction	9219 Sep 15 18:03	1° <b>♄</b> 05'21	0°10'58
opposition	9214 Jan 08 09:08	22° <b>☾</b> 03'00	-2°10'30	minimum elong	9219 Sep 15 18:02	1° <b>♄</b> 05'21	0°10'57
min. Earth dist.	9214 Jan 08 03:17	22° <b>☾</b> 04'07	8.71901 AU	behind sun begin	9219 Sep 15 12:37	1° <b>♄</b> 03'40	
direct	9214 Mar 18 00:14	18° <b>☾</b> 43'04		behind sun end	9219 Sep 15 23:28	1° <b>♄</b> 07'01	
evening set	9214 Jun 26 08:03	25° <b>☾</b> 59'47		max. Earth dist.	9219 Sep 15 19:51	1° <b>♄</b> 05'54	10.41790 AU
				morning rise	9219 Oct 03 13:27	3° <b>♄</b> 17'43	
conjunction	9214 Jul 13 07:42	28° <b>☾</b> 03'16	-1°40'01	retrograde	9220 Jan 16 15:50	11° <b>♄</b> 08'41	
minimum elong	9214 Jul 13 07:44	28° <b>☾</b> 03'16	1°40'16	opposition	9220 Mar 25 05:22	7° <b>♄</b> 41'43	0°30'08
max. Earth dist.	9214 Jul 13 14:19	28° <b>☾</b> 05'17	10.69494 AU	min. Earth dist.	9220 Mar 25 04:19	7° <b>♄</b> 41'56	8.39259 AU
	9214 Jul 29 08:52	0° <b>Ω</b>		direct	9220 May 31 16:00	4° <b>♄</b> 17'04	
morning rise	9214 Jul 30 10:53	0° <b>Ω</b> 07'46		evening set	9220 Sep 10 17:57	11° <b>♄</b> 57'36	
retrograde	9214 Nov 12 01:00	7° <b>Ω</b> 42'04					
opposition	9215 Jan 21 03:53	4° <b>Ω</b> 18'00	-1°53'55	conjunction	9220 Sep 28 12:40	14° <b>♄</b> 10'21	0°37'12
min. Earth dist.	9215 Jan 20 22:20	4° <b>Ω</b> 19'04	8.67097 AU	minimum elong	9220 Sep 28 12:39	14° <b>♄</b> 10'20	0°37'15
direct	9215 Mar 30 13:26	0° <b>Ω</b> 57'31		max. Earth dist.	9220 Sep 28 13:16	14° <b>♄</b> 10'32	10.36919 AU
evening set	9215 Jul 08 20:00	8° <b>Ω</b> 16'35		morning rise	9220 Oct 16 09:35	16° <b>♄</b> 23'48	
				retrograde	9221 Jan 29 06:36	24° <b>♄</b> 17'00	
conjunction	9215 Jul 25 23:05	10° <b>Ω</b> 21'33	-1°24'12	opposition	9221 Apr 07 12:17	20° <b>♄</b> 49'56	1°01'50
minimum elong	9215 Jul 25 23:07	10° <b>Ω</b> 21'33	1°24'26	min. Earth dist.	9221 Apr 07 12:05	20° <b>♄</b> 49'59	8.34810 AU

direct	9221 Jun 13 23:09	17° <u>♄</u> 24'28		retrograde	9227 Apr 20 08:56	14° <u>♄</u> 29'53	
evening set	9221 Sep 24 15:42	25° <u>♄</u> 10'05		opposition	9227 Jun 26 11:54	11° <u>♄</u> 06'10	2°20'50
				min. Earth dist.	9227 Jun 26 17:05	11° <u>♄</u> 05'08	8.33366 AU
conjunction	9221 Oct 12 11:57	27° <u>♄</u> 23'51	1°01'44	direct	9227 Sep 03 03:29	7° <u>♄</u> 38'44	
minimum elong	9221 Oct 12 11:55	27° <u>♄</u> 23'51	1°01'51	evening set	9227 Dec 17 18:31	15° <u>♄</u> 36'44	
max. Earth dist.	9221 Oct 12 11:23	27° <u>♄</u> 23'41	10.32904 AU				
morning rise	9221 Oct 30 09:27	29° <u>♄</u> 38'04		conjunction	9228 Jan 04 09:54	17° <u>♄</u> 49'18	1°49'10
	9221 Nov 02 09:00	0° <u>♄</u>		minimum elong	9228 Jan 04 09:55	17° <u>♄</u> 49'19	1°49'27
retrograde	9222 Feb 12 00:27	7° <u>♄</u> 32'43		max. Earth dist.	9228 Jan 04 02:55	17° <u>♄</u> 47'06	10.35155 AU
opposition	9222 Apr 20 21:22	4° <u>♄</u> 05'46	1°30'32	morning rise	9228 Jan 21 22:03	20° <u>♄</u> 00'57	
min. Earth dist.	9222 Apr 20 22:01	4° <u>♄</u> 05'38	8.31343 AU	retrograde	9228 May 02 17:59	27° <u>♄</u> 43'32	
direct	9222 Jun 27 08:39	0° <u>♄</u> 39'33		opposition	9228 Jul 08 23:36	24° <u>♄</u> 20'37	2°08'17
evening set	9222 Oct 08 18:06	8° <u>♄</u> 29'58		min. Earth dist.	9228 Jul 09 04:55	24° <u>♄</u> 19'33	8.37403 AU
				direct	9228 Sep 15 23:24	20° <u>♄</u> 53'27	
conjunction	9222 Oct 26 14:57	10° <u>♄</u> 44'22	1°23'08	evening set	9228 Dec 30 14:47	28° <u>♄</u> 48'51	
minimum elong	9222 Oct 26 14:54	10° <u>♄</u> 44'22	1°23'19		9229 Jan 09 04:01	0° <u>♄</u>	
max. Earth dist.	9222 Oct 26 12:40	10° <u>♄</u> 43'39	10.29973 AU				
morning rise	9222 Nov 13 12:09	12° <u>♄</u> 58'59		conjunction	9229 Jan 17 04:12	1° <u>♄</u> 00'18	1°36'19
	9222 Nov 30 07:02	15° <u>♄</u>		minimum elong	9229 Jan 17 04:14	1° <u>♄</u> 00'19	1°36'35
retrograde	9223 Feb 25 19:18	20° <u>♄</u> 54'06		max. Earth dist.	9229 Jan 16 21:09	0° <u>♄</u> 58'05	10.39621 AU
opposition	9223 May 04 08:14	17° <u>♄</u> 27'32	1°54'34	morning rise	9229 Feb 03 14:01	3° <u>♄</u> 10'43	
min. Earth dist.	9223 May 04 10:21	17° <u>♄</u> 27'06	8.29063 AU	retrograde	9229 May 16 00:26	10° <u>♄</u> 48'50	
	9223 Jun 07 07:06	15° <u>♄</u>		opposition	9229 Jul 22 09:33	7° <u>♄</u> 26'41	1°49'09
direct	9223 Jul 10 21:36	14° <u>♄</u> 00'43		min. Earth dist.	9229 Jul 22 15:28	7° <u>♄</u> 25'30	8.42148 AU
	9223 Aug 13 08:20	15° <u>♄</u>		direct	9229 Sep 29 16:15	3° <u>♄</u> 59'57	
evening set	9223 Oct 22 23:35	21° <u>♄</u> 55'12		evening set	9230 Jan 13 05:43	11° <u>♄</u> 51'49	
conjunction	9223 Nov 09 20:13	24° <u>♄</u> 09'53	1°40'09	conjunction	9230 Jan 30 16:55	14° <u>♄</u> 02'04	1°18'38
minimum elong	9223 Nov 09 20:10	24° <u>♄</u> 09'52	1°40'23	minimum elong	9230 Jan 30 16:57	14° <u>♄</u> 02'04	1°18'51
max. Earth dist.	9223 Nov 09 15:54	24° <u>♄</u> 08'31	10.28313 AU	max. Earth dist.	9230 Jan 30 09:18	13° <u>♄</u> 59'41	10.44623 AU
morning rise	9223 Nov 27 16:26	26° <u>♄</u> 24'30			9230 Feb 07 10:19	15° <u>♄</u>	
	9223 Dec 28 13:36	0° <u>♄</u>		morning rise	9230 Feb 17 00:30	16° <u>♄</u> 11'13	
retrograde	9224 Mar 10 13:13	4° <u>♄</u> 19'05		retrograde	9230 May 29 03:01	23° <u>♄</u> 45'00	
opposition	9224 May 16 20:37	0° <u>♄</u> 53'05	2°12'27	opposition	9230 Aug 04 17:47	20° <u>♄</u> 23'33	1°24'40
min. Earth dist.	9224 May 17 00:17	0° <u>♄</u> 52'21	8.28118 AU	min. Earth dist.	9230 Aug 05 00:10	20° <u>♄</u> 22'18	8.47270 AU
	9224 May 27 22:06	30° <u>♄</u>		direct	9230 Oct 13 06:59	16° <u>♄</u> 57'27	
direct	9224 Jul 23 15:03	27° <u>♄</u> 25'49		evening set	9231 Jan 26 14:50	24° <u>♄</u> 45'13	
	9224 Sep 16 20:30	0° <u>♄</u>					
evening set	9224 Nov 05 06:23	5° <u>♄</u> 23'19		conjunction	9231 Feb 12 23:40	26° <u>♄</u> 54'10	0°57'09
				minimum elong	9231 Feb 12 23:42	26° <u>♄</u> 54'10	0°57'19
conjunction	9224 Nov 23 02:13	7° <u>♄</u> 37'54	1°51'44	max. Earth dist.	9231 Feb 12 15:53	26° <u>♄</u> 51'44	10.49872 AU
minimum elong	9224 Nov 23 02:12	7° <u>♄</u> 37'54	1°52'00	morning rise	9231 Mar 02 05:05	29° <u>♄</u> 02'04	
max. Earth dist.	9224 Nov 22 20:12	7° <u>♄</u> 36'00	10.28034 AU		9231 Mar 10 05:27	0° <u>♄</u>	
morning rise	9224 Dec 10 20:57	9° <u>♄</u> 52'11		retrograde	9231 Jun 11 01:13	6° <u>♄</u> 31'58	
retrograde	9225 Mar 24 05:12	17° <u>♄</u> 45'10		opposition	9231 Aug 18 00:01	3° <u>♄</u> 11'07	0°56'15
opposition	9225 May 30 09:49	14° <u>♄</u> 19'53	2°23'06	min. Earth dist.	9231 Aug 18 05:38	3° <u>♄</u> 10'01	8.52544 AU
min. Earth dist.	9225 May 30 14:42	14° <u>♄</u> 18'53	8.28558 AU		9231 Oct 10 00:52	30° <u>♄</u>	
direct	9225 Aug 06 10:38	10° <u>♄</u> 52'21		direct	9231 Oct 26 19:47	29° <u>♄</u> 45'45	
evening set	9225 Nov 19 13:05	18° <u>♄</u> 51'31			9231 Nov 12 12:53	0° <u>♄</u>	
				evening set	9232 Feb 08 18:29	7° <u>♄</u> 29'03	
conjunction	9225 Dec 07 07:42	21° <u>♄</u> 05'43	1°57'12				
minimum elong	9225 Dec 07 07:41	21° <u>♄</u> 05'43	1°57'30	conjunction	9232 Feb 26 00:56	9° <u>♄</u> 36'40	0°33'04
max. Earth dist.	9225 Dec 07 00:29	21° <u>♄</u> 03'26	10.29144 AU	minimum elong	9232 Feb 26 00:58	9° <u>♄</u> 36'40	0°33'11
morning rise	9225 Dec 25 00:28	23° <u>♄</u> 19'20		max. Earth dist.	9232 Feb 25 18:24	9° <u>♄</u> 34'38	10.55187 AU
	9226 Mar 01 18:46	0° <u>♄</u>		morning rise	9232 Mar 14 04:11	11° <u>♄</u> 43'18	
retrograde	9226 Apr 06 20:12	1° <u>♄</u> 09'39		retrograde	9232 Jun 22 21:33	19° <u>♄</u> 09'48	
	9226 May 13 08:41	30° <u>♄</u>		opposition	9232 Aug 30 03:59	15° <u>♄</u> 49'23	0°25'27
opposition	9226 Jun 12 23:02	27° <u>♄</u> 45'08	2°25'55	min. Earth dist.	9232 Aug 30 08:07	15° <u>♄</u> 48'35	8.57804 AU
min. Earth dist.	9226 Jun 13 04:23	27° <u>♄</u> 44'04	8.30347 AU	direct	9232 Nov 08 05:15	12° <u>♄</u> 24'49	
direct	9226 Aug 20 07:00	24° <u>♄</u> 17'33		evening set	9233 Feb 20 16:48	20° <u>♄</u> 03'26	
	9226 Nov 14 16:14	0° <u>♄</u>					
evening set	9226 Dec 03 17:41	2° <u>♄</u> 16'54		conjunction	9233 Mar 09 20:51	22° <u>♄</u> 09'43	0°07'41
				minimum elong	9233 Mar 09 20:52	22° <u>♄</u> 09'43	0°07'44
conjunction	9226 Dec 21 10:48	4° <u>♄</u> 30'24	1°56'18	behind sun begin	9233 Mar 09 14:28	22° <u>♄</u> 07'45	
minimum elong	9226 Dec 21 10:48	4° <u>♄</u> 30'24	1°56'36	behind sun end	9233 Mar 10 03:17	22° <u>♄</u> 11'40	
max. Earth dist.	9226 Dec 21 03:28	4° <u>♄</u> 28'05	10.31573 AU	max. Earth dist.	9233 Mar 09 16:23	22° <u>♄</u> 08'21	10.60379 AU
morning rise	9227 Jan 08 01:19	6° <u>♄</u> 43'08		morning rise	9233 Mar 26 21:50	24° <u>♄</u> 15'06	

	9233 May 22 14:46	0°♈	conjunction	9239 May 21 13:10	4°♊59'56 -1°50'48
desc. node	9233 Jun 30 14:20	1°♈37'25	minimum elong	9239 May 21 13:09	4°♊59'55 1°51'04
retrograde	9233 Jul 05 16:26	1°♈38'47	max. Earth dist.	9239 May 21 19:14	5°♊01'46 10.78407 AU
	9233 Aug 20 02:45	30°♋	morning rise	9239 Jun 07 07:01	7°♊01'02
opposition	9233 Sep 12 06:00	28°♋18'37 -0°06'11	retrograde	9239 Sep 18 00:19	14°♊23'10
min. Earth dist.	9233 Sep 12 08:27	28°♋18'09 8.62850 AU	opposition	9239 Nov 27 05:46	11°♊01'40 -2°20'45
direct	9233 Nov 21 09:23	24°♋54'52	min. Earth dist.	9239 Nov 26 23:58	11°♊02'45 8.78491 AU
	9234 Feb 11 22:06	0°♈	direct	9240 Feb 04 19:49	7°♊41'27
evening set	9234 Mar 05 10:07	2°♈28'47	evening set	9240 May 15 22:14	14°♊57'07
conjunction	9234 Mar 22 11:39	4°♈33'45 -0°17'55	conjunction	9240 Jun 01 15:21	16°♊57'59 -1°57'08
minimum elong	9234 Mar 22 11:38	4°♈33'44 0°17'55	minimum elong	9240 Jun 01 15:20	16°♊57'59 1°57'25
max. Earth dist.	9234 Mar 22 09:17	4°♈33'02 10.65237 AU	max. Earth dist.	9240 Jun 01 21:48	16°♊59'57 10.78018 AU
morning rise	9234 Apr 08 10:28	6°♈37'57	morning rise	9240 Jun 18 10:08	18°♊59'20
retrograde	9234 Jul 18 07:53	13°♈59'30	retrograde	9240 Sep 29 14:00	26°♊23'35
opposition	9234 Sep 25 06:04	10°♈39'26 -0°37'10	opposition	9240 Dec 08 22:32	23°♊01'34 -2°25'27
min. Earth dist.	9234 Sep 25 07:25	10°♈39'11 8.67478 AU	min. Earth dist.	9240 Dec 08 16:25	23°♊02'43 8.77566 AU
direct	9234 Dec 04 10:29	7°♈16'27	direct	9241 Feb 16 07:21	19°♊41'34
evening set	9235 Mar 17 23:03	14°♈45'55	evening set	9241 May 28 00:54	26°♊56'42
conjunction	9235 Apr 03 22:01	16°♈49'38 -0°42'22	conjunction	9241 Jun 13 19:00	28°♊57'57 -1°58'22
minimum elong	9235 Apr 03 22:00	16°♈49'37 0°42'26	minimum elong	9241 Jun 13 19:01	28°♊57'57 1°58'40
max. Earth dist.	9235 Apr 03 20:52	16°♈49'17 10.69566 AU	max. Earth dist.	9241 Jun 14 02:26	29°♊00'13 10.76553 AU
morning rise	9235 Apr 20 19:03	18°♈52'47		9241 Jun 22 07:40	0°♉
retrograde	9235 Jul 30 21:29	26°♈12'56	morning rise	9241 Jun 30 15:26	0°♉59'53
opposition	9235 Oct 08 04:02	22°♈52'48 -1°06'09	retrograde	9241 Oct 12 06:53	8°♉26'45
min. Earth dist.	9235 Oct 08 04:21	22°♈52'45 8.71499 AU	opposition	9241 Dec 21 15:34	5°♉04'08 -2°23'47
direct	9235 Dec 17 08:53	19°♈30'31	min. Earth dist.	9241 Dec 21 08:30	5°♉05'29 8.75576 AU
evening set	9236 Mar 29 08:04	26°♈55'57	direct	9242 Feb 28 17:56	1°♉44'13
			evening set	9242 Jun 09 05:01	8°♉59'33
conjunction	9236 Apr 15 04:46	28°♈58'34 -1°04'43	conjunction	9242 Jun 26 01:03	11°♉01'34 -1°54'23
minimum elong	9236 Apr 15 04:44	28°♈58'34 1°04'51	minimum elong	9242 Jun 26 01:04	11°♉01'34 1°54'40
max. Earth dist.	9236 Apr 15 04:56	28°♈58'37 10.73185 AU	max. Earth dist.	9242 Jun 26 09:56	11°♉04'16 10.74069 AU
	9236 Apr 23 14:27	0°♉	morning rise	9242 Jul 12 23:45	13°♉04'23
morning rise	9236 May 02 00:21	1°♉00'51	retrograde	9242 Oct 25 01:49	20°♉34'15
retrograde	9236 Aug 11 09:30	8°♉20'22	opposition	9243 Jan 03 09:06	17°♉11'01 -2°15'45
opposition	9236 Oct 20 00:15	5°♉00'02 -1°31'54	min. Earth dist.	9243 Jan 03 01:10	17°♉12'32 8.72601 AU
min. Earth dist.	9236 Oct 19 22:58	5°♉00'16 8.74731 AU	direct	9243 Mar 13 04:02	13°♉51'01
direct	9236 Dec 29 03:45	1°♉38'24	evening set	9243 Jun 21 11:57	21°♉07'23
evening set	9237 Apr 10 13:59	9°♉00'20			
conjunction	9237 Apr 27 08:54	11°♉02'05 -1°24'04	conjunction	9243 Jul 08 10:30	23°♉10'26 -1°45'16
minimum elong	9237 Apr 27 08:52	11°♉02'04 1°24'14	minimum elong	9243 Jul 08 10:32	23°♉10'27 1°45'32
max. Earth dist.	9237 Apr 27 11:14	11°♉02'48 10.75933 AU	max. Earth dist.	9243 Jul 08 19:56	23°♉13'19 10.70672 AU
morning rise	9237 May 14 03:16	13°♉03'41	morning rise	9243 Jul 25 12:06	25°♉14'25
	9237 May 30 22:03	15°♉		9243 Sep 08 07:25	0°♊
retrograde	9237 Aug 23 21:20	20°♉23'23	retrograde	9243 Nov 07 00:01	2°♊47'30
opposition	9237 Nov 01 19:00	17°♉02'43 -1°53'27		9244 Jan 08 05:17	30°♋
min. Earth dist.	9237 Nov 01 15:28	17°♉03'23 8.77033 AU	opposition	9244 Jan 16 03:29	29°♉23'41 -2°01'33
	9237 Nov 30 23:19	15°♋	min. Earth dist.	9244 Jan 15 19:28	29°♉25'13 8.68778 AU
direct	9238 Jan 10 20:24	13°♋41'41	direct	9244 Mar 24 15:22	26°♉03'27
	9238 Feb 19 16:16	15°♋		9244 Jun 02 22:13	0°♊
evening set	9238 Apr 22 17:42	21°♋00'47	evening set	9244 Jul 02 22:27	3°♊21'39
conjunction	9238 May 09 11:25	23°♋01'55 -1°39'37	conjunction	9244 Jul 19 23:57	5°♊26'00 -1°31'19
minimum elong	9238 May 09 11:23	23°♋01'55 1°39'51	minimum elong	9244 Jul 19 23:59	5°♊26'00 1°31'33
max. Earth dist.	9238 May 09 16:15	23°♋03'23 10.77698 AU	max. Earth dist.	9244 Jul 20 08:37	5°♊28'39 10.66527 AU
morning rise	9238 May 26 05:07	25°♋03'06	morning rise	9244 Aug 06 05:03	7°♊31'23
	9238 Jul 12 16:32	0°♊		9244 Nov 06 13:17	15°♊
retrograde	9238 Sep 05 11:11	2°♊23'43	retrograde	9244 Nov 19 01:14	15°♊07'50
	9238 Nov 01 16:31	30°♋		9244 Dec 01 12:09	15°♋
opposition	9238 Nov 14 12:43	29°♋02'39 -2°09'57	opposition	9245 Jan 27 23:26	11°♋43'26 -1°41'39
min. Earth dist.	9238 Nov 14 07:35	29°♋03'37 8.78309 AU	min. Earth dist.	9245 Jan 27 16:19	11°♋44'49 8.64294 AU
direct	9239 Jan 23 09:39	25°♋42'06	direct	9245 Apr 06 03:28	8°♋22'49
	9239 Apr 08 05:40	0°♊		9245 Jul 09 10:35	15°♋
evening set	9239 May 04 20:06	2°♊59'04	evening set	9245 Jul 15 13:09	15°♋43'35

conjunction	9245 Aug 01 18:04	17°♏49'24	-1°13'00			9251 Sep 06 20:20	0°♍	
minimum elong	9245 Aug 01 18:06	17°♏49'25	1°13'13	evening set		9251 Oct 03 01:59	3°♍04'00	
max. Earth dist.	9245 Aug 02 01:52	17°♏51'47	10.61828 AU					
morning rise	9245 Aug 19 02:53	19°♏56'21		conjunction		9251 Oct 20 22:19	5°♍17'49	1°14'27
retrograde	9245 Dec 02 03:48	27°♏36'12		minimum elong		9251 Oct 20 22:16	5°♍17'48	1°14'37
opposition	9246 Feb 09 20:57	24°♏11'16	-1°16'47	max. Earth dist.		9251 Oct 20 18:59	5°♍16'46	10.33449 AU
min. Earth dist.	9246 Feb 09 14:48	24°♏12'27	8.59360 AU	morning rise		9251 Nov 07 19:42	7°♍31'58	
direct	9246 Apr 18 19:00	20°♏50'06				9252 Jan 29 06:30	15°♍	
evening set	9246 Jul 28 09:05	28°♏14'09		retrograde		9252 Feb 20 05:45	15°♍25'51	
	9246 Aug 11 19:39	0°♐				9252 Mar 13 06:30	15°♋♍	
				opposition		9252 Apr 27 22:40	11°♍59'39	1°44'53
conjunction	9246 Aug 14 17:41	0°♐21'35	-0°51'04	min. Earth dist.		9252 Apr 28 01:26	11°♍59'06	8.32110 AU
minimum elong	9246 Aug 14 17:43	0°♐21'35	0°51'14	direct		9252 Jul 04 11:53	8°♍33'34	
max. Earth dist.	9246 Aug 15 00:55	0°♐23'48	10.56776 AU			9252 Oct 04 12:08	15°♍	
morning rise	9246 Sep 01 06:04	2°♐30'07		evening set		9252 Oct 16 05:18	16°♍25'12	
retrograde	9246 Dec 15 09:28	10°♐13'14						
opposition	9247 Feb 22 20:02	6°♐47'49	-0°47'56	conjunction		9252 Nov 03 01:56	18°♍39'28	1°33'26
min. Earth dist.	9247 Feb 22 14:40	6°♐48'52	8.54186 AU	minimum elong		9252 Nov 03 01:53	18°♍39'27	1°33'39
direct	9247 May 01 14:23	3°♐25'59		max. Earth dist.		9252 Nov 02 21:25	18°♍38'03	10.30924 AU
evening set	9247 Aug 10 10:42	10°♐53'56		morning rise		9252 Nov 20 22:35	20°♍53'48	
				retrograde		9253 Mar 04 22:18	28°♍47'39	
conjunction	9247 Aug 27 22:50	13°♐02'58	-0°26'26	opposition		9253 May 11 09:28	25°♍21'43	2°05'31
minimum elong	9247 Aug 27 22:51	13°♐02'58	0°26'33	min. Earth dist.		9253 May 11 12:59	25°♍21'01	8.30234 AU
max. Earth dist.	9247 Aug 28 05:19	13°♐04'58	10.51576 AU	direct		9253 Jul 18 03:20	21°♍54'56	
morning rise	9247 Sep 14 14:20	15°♐13'02		evening set		9253 Oct 30 10:47	29°♍50'04	
retrograde	9247 Dec 28 19:36	22°♐59'12				9253 Oct 31 18:53	0°♊	
opposition	9248 Mar 06 21:10	19°♐33'21	-0°16'23					
min. Earth dist.	9248 Mar 06 16:32	19°♐34'16	8.48974 AU	conjunction		9253 Nov 17 07:03	2°♊04'27	1°47'26
direct	9248 May 13 10:46	16°♐10'44		minimum elong		9253 Nov 17 07:01	2°♊04'26	1°47'42
evening set	9248 Aug 22 18:01	23°♐43'05		max. Earth dist.		9253 Nov 17 01:26	2°♊02'40	10.29654 AU
				morning rise		9253 Dec 05 02:19	4°♊18'37	
conjunction	9248 Sep 09 09:13	25°♐53'36	-0°00'14	retrograde		9254 Mar 18 14:43	12°♊11'21	
minimum elong	9248 Sep 09 09:13	25°♐53'36	0°00'17	opposition		9254 May 24 21:21	8°♊45'51	2°19'24
behind sun begin	9248 Sep 09 02:01	25°♐51'24		min. Earth dist.		9254 May 25 01:47	8°♊44'57	8.29646 AU
behind sun end	9248 Sep 09 16:24	25°♐55'49		direct		9254 Jul 31 20:14	5°♊18'31	
max. Earth dist.	9248 Sep 09 13:53	25°♐55'01	10.46421 AU	evening set		9254 Nov 13 16:43	13°♊15'56	
asc. node	9248 Sep 12 15:01	26°♐17'47						
morning rise	9248 Sep 27 03:20	28°♐05'05		conjunction		9254 Dec 01 11:56	15°♊30'06	1°55'37
	9248 Oct 13 08:03	0°♑		minimum elong		9254 Dec 01 11:55	15°♊30'06	1°55'55
retrograde	9249 Jan 10 08:00	5°♑53'58		max. Earth dist.		9254 Dec 01 05:09	15°♊27'57	10.29705 AU
opposition	9249 Mar 20 00:26	2°♑27'48	0°16'22	morning rise		9254 Dec 19 05:19	17°♊43'46	
min. Earth dist.	9249 Mar 19 21:28	2°♑28'23	8.43909 AU	retrograde		9255 Apr 01 06:31	25°♊34'23	
	9249 Apr 23 18:43	30°♋♐		opposition		9255 Jun 07 09:42	22°♊09'26	2°25'41
direct	9249 May 26 10:47	29°♐04'18		min. Earth dist.		9255 Jun 07 15:14	22°♊08'19	8.30376 AU
	9249 Jun 27 19:56	0°♑		direct		9255 Aug 14 14:29	18°♊41'44	
evening set	9249 Sep 05 07:24	6°♑41'30		evening set		9255 Nov 27 21:18	26°♊40'06	
conjunction	9249 Sep 23 01:01	8°♑53'22	0°26'16	conjunction		9255 Dec 15 15:03	28°♊53'44	1°57'31
minimum elong	9249 Sep 23 01:00	8°♑53'22	0°26'17	minimum elong		9255 Dec 15 15:03	28°♊53'44	1°57'50
max. Earth dist.	9249 Sep 23 02:43	8°♑53'54	10.41496 AU	max. Earth dist.		9255 Dec 15 06:59	28°♊51'11	10.31078 AU
morning rise	9249 Oct 10 21:07	11°♑06'03				9255 Dec 24 08:59	0°♋	
retrograde	9250 Jan 23 21:36	18°♑57'14		morning rise		9256 Jan 02 06:25	1°♋06'41	
opposition	9250 Apr 02 05:44	15°♑30'55	0°48'39	retrograde		9256 Apr 13 18:55	8°♋54'14	
min. Earth dist.	9250 Apr 02 05:07	15°♑31'03	8.39205 AU	opposition		9256 Jun 19 21:51	5°♋29'55	2°24'05
direct	9250 Jun 08 15:30	12°♑06'31		min. Earth dist.		9256 Jun 20 04:33	5°♋28'34	8.32378 AU
evening set	9250 Sep 19 02:20	19°♑48'50		direct		9256 Aug 27 10:25	2°♋02'04	
				evening set		9256 Dec 10 22:57	9°♋59'58	
conjunction	9250 Oct 06 21:41	22°♑01'50	0°51'37					
minimum elong	9250 Oct 06 21:39	22°♑01'49	0°51'42	conjunction		9256 Dec 28 15:00	12°♋12'50	1°53'07
max. Earth dist.	9250 Oct 06 20:28	22°♑01'27	10.37064 AU	minimum elong		9256 Dec 28 15:01	12°♋12'50	1°53'25
morning rise	9250 Oct 24 18:56	24°♑15'25		max. Earth dist.		9256 Dec 28 05:53	12°♋09'57	10.33683 AU
	9250 Dec 18 03:11	0°♌		morning rise		9257 Jan 15 04:17	14°♋24'52	
retrograde	9251 Feb 06 13:16	2°♌08'21		retrograde		9257 Apr 27 03:41	22°♋08'40	
	9251 Mar 29 22:41	30°♋♑		opposition		9257 Jul 03 09:12	18°♋45'02	2°14'47
opposition	9251 Apr 15 13:15	28°♑42'02	1°18'44	min. Earth dist.		9257 Jul 03 16:14	18°♋43'38	8.35520 AU
min. Earth dist.	9251 Apr 15 14:43	28°♑41'45	8.35171 AU	direct		9257 Sep 10 06:42	15°♋17'15	
direct	9251 Jun 21 23:39	25°♑16'45		evening set		9257 Dec 24 20:33	23°♋13'22	

conjunction	9258 Jan 11 10:45	25° $\text{♁}$ 25'15	1°42'44	retrograde	9263 Jul 12 20:29	8° $\text{♄}$ 37'14	
minimum elong	9258 Jan 11 10:47	25° $\text{♁}$ 25'16	1°43'01	opposition	9263 Sep 19 16:51	5° $\text{♄}$ 17'06	-0°23'08
max. Earth dist.	9258 Jan 11 01:40	25° $\text{♁}$ 22'24	10.37353 AU	min. Earth dist.	9263 Sep 19 18:18	5° $\text{♄}$ 16'49	8.66128 AU
morning rise	9258 Jan 28 21:47	27° $\text{♁}$ 36'10		direct	9263 Nov 28 22:10	1° $\text{♄}$ 53'46	
	9258 Feb 18 02:20	0° $\approx$		evening set	9264 Mar 11 14:46	9° $\text{♄}$ 24'41	
retrograde	9258 May 10 10:09	5° $\approx$ 15'50					
opposition	9258 Jul 16 19:12	1° $\approx$ 52'53	1°58'29	conjunction	9264 Mar 28 14:53	11° $\text{♄}$ 28'49	-0°31'19
min. Earth dist.	9258 Jul 17 01:42	1° $\approx$ 51'36	8.39618 AU	minimum elong	9264 Mar 28 14:52	11° $\text{♄}$ 28'48	0°31'22
	9258 Aug 10 22:12	30° $\text{♄}$ 3		max. Earth dist.	9264 Mar 28 13:49	11° $\text{♄}$ 28'29	10.68557 AU
direct	9258 Sep 24 00:32	28° $\text{♁}$ 25'26		morning rise	9264 Apr 14 12:46	13° $\text{♄}$ 32'18	
	9258 Nov 06 10:24	0° $\approx$		retrograde	9264 Jul 24 11:42	20° $\text{♄}$ 52'25	
evening set	9259 Jan 07 13:06	6° $\approx$ 18'35		opposition	9264 Oct 01 14:54	17° $\text{♄}$ 32'29	-0°53'06
				min. Earth dist.	9264 Oct 01 14:20	17° $\text{♄}$ 32'36	8.70819 AU
conjunction	9259 Jan 25 01:20	8° $\approx$ 29'21	1°27'07	direct	9264 Dec 10 21:12	14° $\text{♄}$ 10'08	
minimum elong	9259 Jan 25 01:22	8° $\approx$ 29'22	1°27'22	evening set	9265 Mar 24 01:05	21° $\text{♄}$ 36'50	
max. Earth dist.	9259 Jan 24 17:16	8° $\approx$ 26'49	10.41889 AU				
morning rise	9259 Feb 11 10:02	10° $\approx$ 39'04		conjunction	9265 Apr 09 22:53	23° $\text{♄}$ 39'48	-0°54'42
	9259 Mar 22 08:17	15° $\approx$		minimum elong	9265 Apr 09 22:52	23° $\text{♄}$ 39'47	0°54'48
retrograde	9259 May 23 13:57	18° $\approx$ 14'27		max. Earth dist.	9265 Apr 10 00:08	23° $\text{♄}$ 40'11	10.72877 AU
	9259 Jul 28 11:50	15° $\text{♄}$		morning rise	9265 Apr 26 18:55	25° $\text{♄}$ 42'17	
opposition	9259 Jul 30 03:36	14° $\approx$ 52'10	1°36'16		9265 Jun 05 13:35	0° $\text{♄}$	
min. Earth dist.	9259 Jul 30 09:03	14° $\approx$ 51'06	8.44462 AU	retrograde	9265 Aug 06 01:29	3° $\text{♄}$ 01'26	
direct	9259 Oct 07 15:46	11° $\approx$ 25'17			9265 Oct 10 09:57	30° $\text{♄}$ 9	
	9259 Dec 14 01:10	15° $\approx$		opposition	9265 Oct 14 11:30	29° $\text{♄}$ 41'35	-1°20'23
evening set	9260 Jan 21 00:03	19° $\approx$ 14'34		min. Earth dist.	9265 Oct 14 09:31	29° $\text{♄}$ 41'57	8.74770 AU
				direct	9265 Dec 23 14:50	26° $\text{♄}$ 20'07	
conjunction	9260 Feb 07 10:11	21° $\approx$ 24'06	1°07'13		9266 Mar 02 13:07	0° $\text{♄}$	
minimum elong	9260 Feb 07 10:13	21° $\approx$ 24'06	1°07'25	evening set	9266 Apr 05 08:02	3° $\text{♄}$ 43'04	
max. Earth dist.	9260 Feb 07 03:39	21° $\approx$ 22'04	10.47050 AU				
morning rise	9260 Feb 24 16:34	23° $\approx$ 32'33		conjunction	9266 Apr 22 03:42	5° $\text{♄}$ 45'02	-1°15'28
	9260 Apr 30 19:32	0° $\text{♄}$		minimum elong	9266 Apr 22 03:40	5° $\text{♄}$ 45'01	1°15'37
retrograde	9260 Jun 04 14:08	1° $\text{♄}$ 03'48		max. Earth dist.	9266 Apr 22 06:23	5° $\text{♄}$ 45'51	10.76362 AU
	9260 Jul 10 00:04	30° $\text{♄}$		morning rise	9266 May 08 22:24	7° $\text{♄}$ 46'44	
opposition	9260 Aug 11 10:03	27° $\approx$ 42'11	1°09'28		9266 Aug 07 22:34	15° $\text{♄}$	
min. Earth dist.	9260 Aug 11 14:49	27° $\approx$ 41'15	8.49801 AU	retrograde	9266 Aug 18 12:55	15° $\text{♄}$ 05'42	
direct	9260 Oct 20 04:15	24° $\approx$ 16'02			9266 Aug 29 05:10	15° $\text{♄}$ 8	
	9261 Jan 16 03:14	0° $\text{♄}$		opposition	9266 Oct 27 06:44	11° $\text{♄}$ 45'46	-1°43'54
evening set	9261 Feb 02 05:37	2° $\text{♄}$ 00'56		min. Earth dist.	9266 Oct 27 03:54	11° $\text{♄}$ 46'18	8.77817 AU
				direct	9267 Jan 05 08:07	8° $\text{♄}$ 25'03	
conjunction	9261 Feb 19 13:21	4° $\text{♄}$ 09'06	0°44'12		9267 Apr 11 03:58	15° $\text{♄}$	
minimum elong	9261 Feb 19 13:22	4° $\text{♄}$ 09'07	0°44'20	evening set	9267 Apr 17 12:34	15° $\text{♄}$ 44'52	
max. Earth dist.	9261 Feb 19 07:48	4° $\text{♄}$ 07'23	10.52565 AU				
morning rise	9261 Mar 08 17:29	6° $\text{♄}$ 16'15		conjunction	9267 May 04 06:35	17° $\text{♄}$ 46'04	-1°32'49
retrograde	9261 Jun 17 11:39	13° $\text{♄}$ 43'45		minimum elong	9267 May 04 06:33	17° $\text{♄}$ 46'04	1°33'01
opposition	9261 Aug 24 14:22	10° $\text{♄}$ 22'45	0°39'37	max. Earth dist.	9267 May 04 10:02	17° $\text{♄}$ 47'07	10.78866 AU
min. Earth dist.	9261 Aug 24 18:39	10° $\text{♄}$ 21'55	8.55367 AU	morning rise	9267 May 21 00:33	19° $\text{♄}$ 47'14	
direct	9261 Nov 02 13:10	6° $\text{♄}$ 57'28		retrograde	9267 Aug 31 01:02	27° $\text{♄}$ 06'43	
evening set	9262 Feb 15 05:45	14° $\text{♄}$ 37'42		opposition	9267 Nov 09 00:32	23° $\text{♄}$ 46'32	-2°02'45
				min. Earth dist.	9267 Nov 08 20:45	23° $\text{♄}$ 47'15	8.79813 AU
conjunction	9262 Mar 04 10:52	16° $\text{♄}$ 44'30	0°19'18	direct	9268 Jan 17 22:51	20° $\text{♄}$ 26'24	
minimum elong	9262 Mar 04 10:53	16° $\text{♄}$ 44'30	0°19'22	evening set	9268 Apr 28 15:22	27° $\text{♄}$ 43'45	
max. Earth dist.	9262 Mar 04 06:06	16° $\text{♄}$ 43'02	10.58164 AU				
morning rise	9262 Mar 21 12:52	18° $\text{♄}$ 50'21		conjunction	9268 May 15 08:29	29° $\text{♄}$ 44'30	-1°46'03
retrograde	9262 Jun 30 05:33	26° $\text{♄}$ 14'39		minimum elong	9268 May 15 08:27	29° $\text{♄}$ 44'29	1°46'18
opposition	9262 Sep 06 16:41	22° $\text{♄}$ 54'10	0°08'14	max. Earth dist.	9268 May 15 13:24	29° $\text{♄}$ 45'59	10.80251 AU
min. Earth dist.	9262 Sep 06 19:58	22° $\text{♄}$ 53'32	8.60897 AU		9268 May 17 11:36	0° $\text{♄}$	
direct	9262 Nov 15 18:40	19° $\text{♄}$ 29'51		morning rise	9268 Jun 01 02:12	1° $\text{♄}$ 45'25	
desc. node	9262 Dec 13 17:47	20° $\text{♄}$ 08'52		retrograde	9268 Sep 11 13:21	9° $\text{♄}$ 06'06	
evening set	9263 Feb 28 00:31	27° $\text{♄}$ 05'20		opposition	9268 Nov 20 17:35	5° $\text{♄}$ 45'30	-2°16'13
				min. Earth dist.	9268 Nov 20 12:22	5° $\text{♄}$ 46'29	8.80613 AU
conjunction	9263 Mar 17 03:03	29° $\text{♄}$ 10'45	-0°06'21	direct	9269 Jan 29 10:56	2° $\text{♄}$ 25'48	
minimum elong	9263 Mar 17 03:02	29° $\text{♄}$ 10'45	0°06'20	evening set	9269 May 10 17:14	9° $\text{♄}$ 41'25	
behind sun begin	9263 Mar 16 20:21	29° $\text{♄}$ 08'43					
behind sun end	9263 Mar 17 09:44	29° $\text{♄}$ 12'47		conjunction	9269 May 27 10:13	11° $\text{♄}$ 42'01	-1°54'39
max. Earth dist.	9263 Mar 16 23:38	29° $\text{♄}$ 09'44	10.63578 AU	minimum elong	9269 May 27 10:12	11° $\text{♄}$ 42'01	1°54'56
	9263 Mar 23 19:13	0° $\text{♄}$		max. Earth dist.	9269 May 27 16:45	11° $\text{♄}$ 44'00	10.80386 AU
morning rise	9263 Apr 03 02:59	1° $\text{♄}$ 15'24		morning rise	9269 Jun 13 04:17	13° $\text{♄}$ 43'00	

retrograde	9269 Sep 24 03:28	21° $\Pi$ 05'36	opposition	9276 Feb 17 04:08	1° $\Pi$ 11'01	-1°01'46
opposition	9269 Dec 03 10:17	17° $\Pi$ 44'28 -2°23'47	min. Earth dist.	9276 Feb 16 23:01	1° $\Pi$ 12'02	8.55638 AU
min. Earth dist.	9269 Dec 03 04:00	17° $\Pi$ 45'39 8.80107 AU		9276 Mar 03 15:12	30° $\mathbb{R}$ $\mathcal{L}$	
direct	9270 Feb 10 22:34	14° $\Pi$ 25'01	direct	9276 Apr 25 00:16	27° $\mathcal{L}$ 49'03	
evening set	9270 May 22 19:26	21° $\Pi$ 39'44		9276 Jun 14 16:55	0° $\Pi$	
			evening set	9276 Aug 03 17:25	5° $\Pi$ 15'19	
conjunction	9270 Jun 08 12:59	23° $\Pi$ 40'36 -1°58'16	conjunction	9276 Aug 21 03:49	7° $\Pi$ 23'41	-0°38'09
minimum elong	9270 Jun 08 12:59	23° $\Pi$ 40'36 1°58'34	minimum elong	9276 Aug 21 03:50	7° $\Pi$ 23'42	0°38'18
max. Earth dist.	9270 Jun 08 20:09	23° $\Pi$ 42'47 10.79209 AU	max. Earth dist.	9276 Aug 21 08:49	7° $\Pi$ 25'14	10.52779 AU
morning rise	9270 Jun 25 08:19	25° $\Pi$ 42'01	morning rise	9276 Sep 07 17:58	9° $\Pi$ 33'10	
	9270 Aug 04 09:33	0° $\mathcal{E}$	retrograde	9276 Dec 21 23:02	17° $\Pi$ 18'14	
retrograde	9270 Oct 06 20:05	3° $\mathcal{E}$ 07'05	opposition	9277 Mar 01 04:29	13° $\Pi$ 52'02	-0°31'19
	9270 Dec 12 21:25	30° $\mathbb{R}$ $\Pi$	min. Earth dist.	9277 Mar 01 00:49	13° $\Pi$ 52'46	8.49936 AU
opposition	9270 Dec 16 02:58	29° $\Pi$ 45'21 -2°25'06	direct	9277 May 07 19:42	10° $\Pi$ 29'11	
min. Earth dist.	9270 Dec 15 20:37	29° $\Pi$ 46'33 8.78296 AU	evening set	9277 Aug 16 21:53	17° $\Pi$ 59'50	
direct	9271 Feb 23 07:44	26° $\Pi$ 25'57				
	9271 May 01 11:15	0° $\mathcal{E}$	conjunction	9277 Sep 03 11:39	20° $\Pi$ 09'49	-0°12'34
evening set	9271 Jun 03 22:50	3° $\mathcal{E}$ 40'40	minimum elong	9277 Sep 03 11:39	20° $\Pi$ 09'49	0°12'38
conjunction	9271 Jun 20 17:44	5° $\mathcal{E}$ 42'08 -1°56'43	behind sun begin	9277 Sep 03 07:07	20° $\Pi$ 08'26	
minimum elong	9271 Jun 20 17:45	5° $\mathcal{E}$ 42'08 1°57'01	behind sun end	9277 Sep 03 16:11	20° $\Pi$ 11'13	
max. Earth dist.	9271 Jun 21 00:24	5° $\mathcal{E}$ 44'09 10.76799 AU	max. Earth dist.	9277 Sep 03 15:13	20° $\Pi$ 10'55	10.47157 AU
morning rise	9271 Jul 07 15:14	7° $\mathcal{E}$ 44'21	morning rise	9277 Sep 21 04:51	22° $\Pi$ 20'51	
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opposition	9271 Dec 28 20:13	11° $\mathcal{E}$ 49'53 -2°20'03	retrograde	9278 Jan 04 08:46	0° $\mathcal{L}$ 09'01	
min. Earth dist.	9271 Dec 28 14:17	11° $\mathcal{E}$ 51'01 8.75311 AU		9278 Jan 17 13:19	30° $\mathbb{R}$ $\Pi$	
direct	9272 Mar 06 17:24	8° $\mathcal{E}$ 30'19	asc. node	9278 Mar 01 20:59	27° $\Pi$ 40'41	
evening set	9272 Jun 15 04:18	15° $\mathcal{E}$ 45'50	opposition	9278 Mar 14 06:52	26° $\Pi$ 42'21	0°01'05
			min. Earth dist.	9278 Mar 14 04:28	26° $\Pi$ 42'50	8.44432 AU
conjunction	9272 Jul 02 01:22	17° $\mathcal{E}$ 48'14 -1°50'00	direct	9278 May 20 19:45	23° $\Pi$ 18'36	
minimum elong	9272 Jul 02 01:24	17° $\mathcal{E}$ 48'15 1°50'17		9278 Aug 22 21:14	0° $\mathcal{L}$	
max. Earth dist.	9272 Jul 02 08:09	17° $\mathcal{E}$ 50'18 10.73317 AU	evening set	9278 Aug 30 08:32	0° $\mathcal{L}$ 54'05	
morning rise	9272 Jul 19 01:36	19° $\mathcal{E}$ 51'33				
retrograde	9272 Oct 31 08:19	27° $\mathcal{E}$ 22'48	conjunction	9278 Sep 17 01:12	3° $\mathcal{L}$ 05'34	0°14'02
opposition	9273 Jan 09 14:15	23° $\mathcal{E}$ 59'32 -2°08'44	minimum elong	9278 Sep 17 01:11	3° $\mathcal{L}$ 05'34	0°14'01
min. Earth dist.	9273 Jan 09 08:17	24° $\mathcal{E}$ 00'41 8.71341 AU	behind sun begin	9278 Sep 16 21:41	3° $\mathcal{L}$ 04'29	
direct	9273 Mar 19 06:00	20° $\mathcal{E}$ 39'35	behind sun end	9278 Sep 17 04:42	3° $\mathcal{L}$ 06'39	
evening set	9273 Jun 27 12:49	27° $\mathcal{E}$ 56'39	max. Earth dist.	9278 Sep 17 03:46	3° $\mathcal{L}$ 06'21	10.41845 AU
			morning rise	9278 Oct 04 20:39	5° $\mathcal{L}$ 17'55	
conjunction	9273 Jul 14 12:51	0° $\mathcal{L}$ 00'18 -1°38'17	retrograde	9279 Jan 17 21:23	13° $\mathcal{L}$ 08'45	
minimum elong	9273 Jul 14 12:53	0° $\mathcal{L}$ 00'19 1°38'33	opposition	9279 Mar 27 11:18	9° $\mathcal{L}$ 41'49	0°33'51
	9273 Jul 14 11:51	0° $\mathcal{L}$	min. Earth dist.	9279 Mar 27 09:40	9° $\mathcal{L}$ 42'08	8.39389 AU
max. Earth dist.	9273 Jul 14 20:22	0° $\mathcal{L}$ 02'36 10.68962 AU	direct	9279 Jun 02 22:56	6° $\mathcal{L}$ 17'10	
morning rise	9273 Jul 31 16:15	2° $\mathcal{L}$ 04'58	evening set	9279 Sep 13 01:00	13° $\mathcal{L}$ 57'43	
retrograde	9273 Nov 13 07:47	9° $\mathcal{L}$ 39'40				
opposition	9274 Jan 22 09:21	6° $\mathcal{L}$ 15'34 -1°51'28	conjunction	9279 Sep 30 19:50	16° $\mathcal{L}$ 10'28	0°40'05
min. Earth dist.	9274 Jan 22 02:59	6° $\mathcal{L}$ 16'47 8.66595 AU	minimum elong	9279 Sep 30 19:49	16° $\mathcal{L}$ 10'27	0°40'09
direct	9274 Mar 31 18:07	2° $\mathcal{L}$ 55'04	max. Earth dist.	9279 Sep 30 21:04	16° $\mathcal{L}$ 10'51	10.37113 AU
evening set	9274 Jul 10 01:17	10° $\mathcal{L}$ 14'27	morning rise	9279 Oct 18 16:39	18° $\mathcal{L}$ 23'52	
			retrograde	9280 Jan 31 13:58	26° $\mathcal{L}$ 16'47	
conjunction	9274 Jul 27 04:44	12° $\mathcal{L}$ 19'33 -1°21'58	opposition	9280 Apr 08 18:02	22° $\mathcal{L}$ 49'45	1°05'12
minimum elong	9274 Jul 27 04:46	12° $\mathcal{L}$ 19'34 1°22'12	min. Earth dist.	9280 Apr 08 17:25	22° $\mathcal{L}$ 49'53	8.35073 AU
max. Earth dist.	9274 Jul 27 12:30	12° $\mathcal{L}$ 21'56 10.63935 AU	direct	9280 Jun 15 03:58	19° $\mathcal{L}$ 24'16	
morning rise	9274 Aug 13 11:39	14° $\mathcal{L}$ 25'45	evening set	9280 Sep 25 22:36	27° $\mathcal{L}$ 09'49	
	9274 Aug 18 06:48	15° $\mathcal{L}$				
retrograde	9274 Nov 26 09:57	22° $\mathcal{L}$ 03'59	conjunction	9280 Oct 13 18:46	29° $\mathcal{L}$ 23'31	1°04'16
opposition	9275 Feb 04 05:54	18° $\mathcal{L}$ 39'04 -1°28'52	minimum elong	9280 Oct 13 18:44	29° $\mathcal{L}$ 23'30	1°04'24
min. Earth dist.	9275 Feb 03 23:39	18° $\mathcal{L}$ 40'17 8.61280 AU	max. Earth dist.	9280 Oct 13 18:09	29° $\mathcal{L}$ 23'19	10.33224 AU
direct	9275 Apr 13 07:53	15° $\mathcal{L}$ 17'55		9280 Oct 18 14:47	0° $\mathbb{M}$	
evening set	9275 Jul 22 18:40	22° $\mathcal{L}$ 40'22	morning rise	9280 Oct 31 16:08	1° $\mathbb{M}$ 37'39	
			retrograde	9281 Feb 13 07:02	9° $\mathbb{M}$ 31'53	
conjunction	9275 Aug 09 01:35	24° $\mathcal{L}$ 47'05 -1°01'39	opposition	9281 Apr 22 02:53	6° $\mathbb{M}$ 05'00	1°33'24
minimum elong	9275 Aug 09 01:37	24° $\mathcal{L}$ 47'06 1°01'50	min. Earth dist.	9281 Apr 22 03:47	6° $\mathbb{M}$ 04'49	8.31724 AU
max. Earth dist.	9275 Aug 09 08:13	24° $\mathcal{L}$ 49'08 10.58457 AU	direct	9281 Jun 28 14:09	2° $\mathbb{M}$ 38'45	
morning rise	9275 Aug 26 12:10	26° $\mathcal{L}$ 54'55	evening set	9281 Oct 10 00:43	10° $\mathbb{M}$ 29'00	
	9275 Sep 22 14:01	0° $\Pi$				
retrograde	9275 Dec 09 15:02	4° $\Pi$ 36'38	conjunction	9281 Oct 27 21:23	12° $\mathbb{M}$ 43'17	1°25'12





























































































































minimum elong	9281 Oct 27 21:20	12° $\mathbb{M}$ 43'17	1°25'23	conjunction	9288 Jan 19 07:21	2° $\approx$ 52'40	1°34'37
max. Earth dist.	9281 Oct 27 18:18	12° $\mathbb{M}$ 42'19	10.30401 AU	minimum elong	9288 Jan 19 07:24	2° $\approx$ 52'40	1°34'53
morning rise	9281 Nov 14 18:31	14° $\mathbb{M}$ 57'47		max. Earth dist.	9288 Jan 18 23:42	2° $\approx$ 50'15	10.40105 AU
	9281 Nov 15 01:41	15° $\mathbb{M}$		morning rise	9288 Feb 05 17:06	5° $\approx$ 02'59	
retrograde	9282 Feb 26 23:53	22° $\mathbb{M}$ 52'24		retrograde	9288 May 17 03:04	12° $\approx$ 40'41	
opposition	9282 May 05 13:22	19° $\mathbb{M}$ 25'53	1°56'45	opposition	9288 Jul 23 12:37	9° $\approx$ 18'35	1°46'44
min. Earth dist.	9282 May 05 16:13	19° $\mathbb{M}$ 25'19	8.29538 AU	min. Earth dist.	9288 Jul 23 18:59	9° $\approx$ 17'20	8.42646 AU
direct	9282 Jul 12 04:13	15° $\mathbb{M}$ 59'01		direct	9288 Sep 30 19:37	5° $\approx$ 51'54	
evening set	9282 Oct 24 05:47	23° $\mathbb{M}$ 53'16		evening set	9289 Jan 14 08:33	13° $\approx$ 43'21	
					9289 Jan 24 16:26	15° $\approx$	
conjunction	9282 Nov 11 02:13	26° $\mathbb{M}$ 07'49	1°41'37	conjunction	9289 Jan 31 19:33	15° $\approx$ 53'28	1°16'29
minimum elong	9282 Nov 11 02:10	26° $\mathbb{M}$ 07'48	1°41'51	minimum elong	9289 Jan 31 19:35	15° $\approx$ 53'29	1°16'43
max. Earth dist.	9282 Nov 10 21:02	26° $\mathbb{M}$ 06'10	10.28818 AU	max. Earth dist.	9289 Jan 31 11:26	15° $\approx$ 50'55	10.45142 AU
morning rise	9282 Nov 28 22:21	28° $\mathbb{M}$ 22'17		morning rise	9289 Feb 18 03:08	18° $\approx$ 02'32	
	9282 Dec 12 08:47	0° $\mathbb{Z}$		retrograde	9289 May 30 03:42	25° $\approx$ 35'54	
retrograde	9283 Mar 12 16:45	6° $\mathbb{Z}$ 16'19		opposition	9289 Aug 05 20:29	22° $\approx$ 14'28	1°21'48
opposition	9283 May 19 01:18	2° $\mathbb{Z}$ 50'21	2°13'51	min. Earth dist.	9289 Aug 06 02:42	22° $\approx$ 13'15	8.47800 AU
min. Earth dist.	9283 May 19 05:25	2° $\mathbb{Z}$ 49'32	8.28648 AU	direct	9289 Oct 14 11:37	18° $\approx$ 48'23	
	9283 Jun 29 11:11	30° $\mathbb{R}$ $\mathbb{M}$		evening set	9290 Jan 27 17:13	26° $\approx$ 35'41	
direct	9283 Jul 25 20:49	29° $\mathbb{M}$ 23'04					
	9283 Aug 21 04:15	0° $\mathbb{Z}$		conjunction	9290 Feb 14 01:56	28° $\approx$ 44'30	0°54'42
evening set	9283 Nov 07 11:59	7° $\mathbb{Z}$ 20'12		minimum elong	9290 Feb 14 01:58	28° $\approx$ 44'31	0°54'52
conjunction	9283 Nov 25 07:39	9° $\mathbb{Z}$ 34'40	1°52'32	max. Earth dist.	9290 Feb 13 18:18	28° $\approx$ 42'08	10.50397 AU
minimum elong	9283 Nov 25 07:38	9° $\mathbb{Z}$ 34'40	1°52'49		9290 Feb 24 04:55	0° $\mathbb{H}$	
max. Earth dist.	9283 Nov 25 01:23	9° $\mathbb{Z}$ 32'41	10.28576 AU	morning rise	9290 Mar 03 07:15	0° $\mathbb{H}$ 52'17	
morning rise	9283 Dec 13 02:13	11° $\mathbb{Z}$ 48'48		retrograde	9290 Jun 12 02:55	8° $\mathbb{H}$ 21'49	
retrograde	9284 Mar 25 09:24	19° $\mathbb{Z}$ 41'12		opposition	9290 Aug 19 02:22	5° $\mathbb{H}$ 00'58	0°53'05
opposition	9284 May 31 14:02	16° $\mathbb{Z}$ 15'56	2°23'40	min. Earth dist.	9290 Aug 19 07:28	4° $\mathbb{H}$ 59'59	8.53037 AU
min. Earth dist.	9284 May 31 18:43	16° $\mathbb{Z}$ 15'00	8.29108 AU	direct	9290 Oct 27 23:28	1° $\mathbb{H}$ 35'39	
direct	9284 Aug 07 15:34	12° $\mathbb{Z}$ 48'25		evening set	9291 Feb 09 20:23	9° $\mathbb{H}$ 18'30	
evening set	9284 Nov 20 17:58	20° $\mathbb{Z}$ 47'10					
conjunction	9284 Dec 08 12:30	23° $\mathbb{Z}$ 01'14	1°57'19	conjunction	9291 Feb 27 02:47	11° $\mathbb{H}$ 26'01	0°30'26
minimum elong	9284 Dec 08 12:30	23° $\mathbb{Z}$ 01'14	1°57'38	minimum elong	9291 Feb 27 02:48	11° $\mathbb{H}$ 26'01	0°30'33
max. Earth dist.	9284 Dec 08 05:46	22° $\mathbb{Z}$ 59'06	10.29695 AU	max. Earth dist.	9291 Feb 26 20:51	11° $\mathbb{H}$ 24'10	10.55632 AU
morning rise	9284 Dec 26 05:02	25° $\mathbb{Z}$ 14'43		morning rise	9291 Mar 16 05:47	13° $\mathbb{H}$ 32'32	
	9285 Feb 06 17:21	0° $\mathbb{Z}$		retrograde	9291 Jun 25 00:29	20° $\mathbb{H}$ 58'48	
retrograde	9285 Apr 07 23:38	3° $\mathbb{Z}$ 04'28		opposition	9291 Sep 01 06:16	17° $\mathbb{H}$ 38'23	0°22'09
	9285 Jun 09 23:05	30° $\mathbb{R}$ $\mathbb{Z}$		min. Earth dist.	9291 Sep 01 10:11	17° $\mathbb{H}$ 37'37	8.58184 AU
opposition	9285 Jun 14 02:48	29° $\mathbb{Z}$ 39'59	2°25'38	direct	9291 Nov 10 06:24	14° $\mathbb{H}$ 13'53	
min. Earth dist.	9285 Jun 14 07:43	29° $\mathbb{Z}$ 39'00	8.30887 AU	evening set	9292 Feb 22 18:22	21° $\mathbb{H}$ 52'08	
direct	9285 Aug 21 11:51	26° $\mathbb{Z}$ 12'26		conjunction	9292 Mar 10 22:17	23° $\mathbb{H}$ 58'21	0°05'01
	9285 Oct 29 03:54	0° $\mathbb{Z}$		minimum elong	9292 Mar 10 22:18	23° $\mathbb{H}$ 58'21	0°05'03
evening set	9285 Dec 04 22:00	4° $\mathbb{Z}$ 11'22		behind sun begin	9292 Mar 10 15:25	23° $\mathbb{H}$ 56'15	
conjunction	9285 Dec 22 15:04	6° $\mathbb{Z}$ 24'44	1°55'45	behind sun end	9292 Mar 11 05:12	24° $\mathbb{H}$ 00'27	
minimum elong	9285 Dec 22 15:04	6° $\mathbb{Z}$ 24'45	1°56'03	max. Earth dist.	9292 Mar 10 17:59	23° $\mathbb{H}$ 57'03	10.60683 AU
max. Earth dist.	9285 Dec 22 08:15	6° $\mathbb{Z}$ 22'35	10.32102 AU	morning rise	9292 Mar 27 23:06	26° $\mathbb{H}$ 03'40	
morning rise	9286 Jan 09 05:19	8° $\mathbb{Z}$ 37'20			9292 May 02 10:42	0° $\mathbb{Y}$	
retrograde	9286 Apr 21 11:52	16° $\mathbb{Z}$ 23'36		desc. node	9292 May 23 03:28	1° $\mathbb{Y}$ 46'13	
opposition	9286 Jun 27 15:21	12° $\mathbb{Z}$ 59'56	2°19'45	retrograde	9292 Jul 06 17:58	3° $\mathbb{Y}$ 27'16	
min. Earth dist.	9286 Jun 27 20:38	12° $\mathbb{Z}$ 58'53	8.33874 AU	opposition	9292 Sep 13 08:15	0° $\mathbb{Y}$ 07'08	-0°09'29
direct	9286 Sep 04 07:45	9° $\mathbb{Z}$ 32'31		min. Earth dist.	9292 Sep 13 11:16	0° $\mathbb{Y}$ 06'33	8.63072 AU
evening set	9286 Dec 18 22:24	17° $\mathbb{Z}$ 30'09			9292 Sep 14 21:26	30° $\mathbb{R}$ $\mathbb{H}$	
conjunction	9287 Jan 05 13:38	19° $\mathbb{Z}$ 42'36	1°47'59	direct	9292 Nov 22 11:13	26° $\mathbb{H}$ 43'26	
minimum elong	9287 Jan 05 13:39	19° $\mathbb{Z}$ 42'36	1°48'17		9293 Jan 26 05:40	0° $\mathbb{Y}$	
max. Earth dist.	9287 Jan 05 06:32	19° $\mathbb{Z}$ 40'22	10.35648 AU	evening set	9293 Mar 06 11:40	4° $\mathbb{Y}$ 17'11	
morning rise	9287 Jan 23 01:34	21° $\mathbb{Z}$ 54'07		conjunction	9293 Mar 23 12:57	6° $\mathbb{Y}$ 22'05	-0°20'32
retrograde	9287 May 04 21:40	29° $\mathbb{Z}$ 36'16		minimum elong	9293 Mar 23 12:57	6° $\mathbb{Y}$ 22'05	0°20'33
opposition	9287 Jul 11 02:51	26° $\mathbb{Z}$ 13'25	2°06'28	max. Earth dist.	9293 Mar 23 09:44	6° $\mathbb{Y}$ 21'06	10.65368 AU
min. Earth dist.	9287 Jul 11 08:45	26° $\mathbb{Z}$ 12'15	8.37885 AU	morning rise	9293 Apr 09 11:44	8° $\mathbb{Y}$ 26'15	
direct	9287 Sep 18 01:59	22° $\mathbb{Z}$ 46'18		retrograde	9293 Jul 19 09:35	15° $\mathbb{Y}$ 47'53	
	9287 Dec 27 02:37	0° $\approx$		opposition	9293 Sep 26 08:18	12° $\mathbb{Y}$ 27'51	-0°40'19
evening set	9288 Jan 01 18:11	0° $\approx$ 41'18		min. Earth dist.	9293 Sep 26 10:27	12° $\mathbb{Y}$ 27'27	8.67520 AU
				direct	9293 Dec 05 12:49	9° $\mathbb{Y}$ 04'55	
				evening set	9294 Mar 19 00:37	16° $\mathbb{Y}$ 34'23	



conjunction	9294 Apr 04 23:23	18° $\Upsilon$ 38'04 -0°44'49	minimum elong	9300 Jun 15 22:53	0° $\mathfrak{S}$ 52'28 1°58'22
minimum elong	9294 Apr 04 23:22	18° $\Upsilon$ 38'04 0°44'54	max. Earth dist.	9300 Jun 16 07:04	0° $\mathfrak{S}$ 54'57 10.75586 AU
max. Earth dist.	9294 Apr 04 21:23	18° $\Upsilon$ 37'27 10.69510 AU	morning rise	9300 Jul 02 19:26	2° $\mathfrak{S}$ 54'34
morning rise	9294 Apr 21 20:25	20° $\Upsilon$ 41'14	retrograde	9300 Oct 14 11:52	10° $\mathfrak{S}$ 22'09
retrograde	9294 Jul 31 23:11	28° $\Upsilon$ 01'37	opposition	9300 Dec 23 20:10	6° $\mathfrak{S}$ 59'24 -2°23'05
opposition	9294 Oct 09 06:29	24° $\Upsilon$ 41'30 -1°09'01	min. Earth dist.	9300 Dec 23 12:29	7° $\mathfrak{S}$ 00'52 8.74572 AU
min. Earth dist.	9294 Oct 09 06:52	24° $\Upsilon$ 41'26 8.71350 AU	direct	9301 Mar 02 21:38	3° $\mathfrak{S}$ 39'25
direct	9294 Dec 18 10:52	21° $\Upsilon$ 19'17	evening set	9301 Jun 11 09:13	10° $\mathfrak{S}$ 55'19
evening set	9295 Mar 31 09:37	28° $\Upsilon$ 44'49			
	9295 Apr 10 18:44	0° $\mathfrak{S}$	conjunction	9301 Jun 28 05:29	12° $\mathfrak{S}$ 57'31 -1°53'29
			minimum elong	9301 Jun 28 05:30	12° $\mathfrak{S}$ 57'32 1°53'47
conjunction	9295 Apr 17 06:17	0° $\mathfrak{S}$ 47'27 -1°06'54	max. Earth dist.	9301 Jun 28 14:39	13° $\mathfrak{S}$ 00'19 10.73038 AU
minimum elong	9295 Apr 17 06:15	0° $\mathfrak{S}$ 47'27 1°07'02	morning rise	9301 Jul 15 04:24	15° $\mathfrak{S}$ 00'32
max. Earth dist.	9295 Apr 17 06:37	0° $\mathfrak{S}$ 47'33 10.72936 AU	retrograde	9301 Oct 27 08:14	22° $\mathfrak{S}$ 31'07
morning rise	9295 May 04 01:47	2° $\mathfrak{S}$ 49'46	opposition	9302 Jan 05 14:15	19° $\mathfrak{S}$ 07'45 -2°14'18
retrograde	9295 Aug 13 11:52	10° $\mathfrak{S}$ 09'42	min. Earth dist.	9302 Jan 05 06:13	19° $\mathfrak{S}$ 09'17 8.71551 AU
opposition	9295 Oct 22 02:55	6° $\mathfrak{S}$ 49'21 -1°34'24	direct	9302 Mar 15 08:35	15° $\mathfrak{S}$ 47'38
min. Earth dist.	9295 Oct 22 01:08	6° $\mathfrak{S}$ 49'41 8.74389 AU	evening set	9302 Jun 23 16:46	23° $\mathfrak{S}$ 04'35
direct	9295 Dec 31 06:54	3° $\mathfrak{S}$ 27'46			
evening set	9296 Apr 11 15:50	10° $\mathfrak{S}$ 49'55	conjunction	9302 Jul 10 15:31	25° $\mathfrak{S}$ 07'51 -1°43'47
			minimum elong	9302 Jul 10 15:33	25° $\mathfrak{S}$ 07'51 1°44'04
conjunction	9296 Apr 28 10:47	12° $\mathfrak{S}$ 51'44 -1°25'53	max. Earth dist.	9302 Jul 11 00:25	25° $\mathfrak{S}$ 10'34 10.69620 AU
minimum elong	9296 Apr 28 10:45	12° $\mathfrak{S}$ 51'44 1°26'04	morning rise	9302 Jul 27 17:32	27° $\mathfrak{S}$ 12'04
max. Earth dist.	9296 Apr 28 13:39	12° $\mathfrak{S}$ 52'37 10.75493 AU		9302 Aug 21 08:31	0° $\mathfrak{Q}$
morning rise	9296 May 15 05:03	14° $\mathfrak{S}$ 53'23	retrograde	9302 Nov 09 06:57	4° $\mathfrak{Q}$ 45'48
	9296 May 16 03:17	15° $\mathfrak{S}$	opposition	9303 Jan 18 09:10	1° $\mathfrak{Q}$ 21'51 -1°59'24
retrograde	9296 Aug 25 01:43	22° $\mathfrak{S}$ 13'36	min. Earth dist.	9303 Jan 18 01:40	1° $\mathfrak{Q}$ 23'17 8.67724 AU
opposition	9296 Nov 02 21:55	18° $\mathfrak{S}$ 52'55 -1°55'26		9303 Feb 05 16:01	30° $\mathfrak{R}$ $\mathfrak{S}$
min. Earth dist.	9296 Nov 02 18:18	18° $\mathfrak{S}$ 53'36 8.76505 AU	direct	9303 Mar 27 19:02	28° $\mathfrak{S}$ 01'27
direct	9297 Jan 11 22:19	15° $\mathfrak{S}$ 31'53		9303 May 15 07:15	0° $\mathfrak{Q}$
evening set	9297 Apr 23 19:58	22° $\mathfrak{S}$ 51'19	evening set	9303 Jul 06 03:52	5° $\mathfrak{Q}$ 20'16
conjunction	9297 May 10 13:37	24° $\mathfrak{S}$ 52'33 -1°41'00	conjunction	9303 Jul 23 05:41	7° $\mathfrak{Q}$ 24'49 -1°29'17
minimum elong	9297 May 10 13:35	24° $\mathfrak{S}$ 52'33 1°41'14	minimum elong	9303 Jul 23 05:44	7° $\mathfrak{Q}$ 24'50 1°29'32
max. Earth dist.	9297 May 10 18:08	24° $\mathfrak{S}$ 53'56 10.77083 AU	max. Earth dist.	9303 Jul 23 13:54	7° $\mathfrak{Q}$ 27'20 10.65488 AU
morning rise	9297 May 27 07:21	26° $\mathfrak{S}$ 53'51	morning rise	9303 Aug 09 11:14	9° $\mathfrak{Q}$ 30'27
	9297 Jun 23 23:30	0° $\mathfrak{I}$		9303 Oct 01 18:49	15° $\mathfrak{Q}$
retrograde	9297 Sep 06 14:41	4° $\mathfrak{I}$ 15'02	retrograde	9303 Nov 22 06:36	17° $\mathfrak{Q}$ 07'30
opposition	9297 Nov 15 16:07	0° $\mathfrak{I}$ 53'56 -2°11'21		9304 Jan 14 04:36	15° $\mathfrak{R}$ $\mathfrak{Q}$
min. Earth dist.	9297 Nov 15 11:35	0° $\mathfrak{I}$ 54'47 8.77617 AU	opposition	9304 Jan 31 05:28	13° $\mathfrak{Q}$ 42'58 -1°38'52
	9297 Nov 27 17:26	30° $\mathfrak{R}$ $\mathfrak{S}$	min. Earth dist.	9304 Jan 30 22:42	13° $\mathfrak{Q}$ 44'16 8.63268 AU
direct	9298 Jan 24 10:59	27° $\mathfrak{S}$ 33'21	direct	9304 Apr 08 09:29	10° $\mathfrak{Q}$ 22'10
	9298 Mar 20 14:40	0° $\mathfrak{I}$		9304 Jun 24 00:16	15° $\mathfrak{Q}$
evening set	9298 May 05 22:44	4° $\mathfrak{I}$ 50'46	evening set	9304 Jul 17 19:11	17° $\mathfrak{Q}$ 43'34
conjunction	9298 May 22 15:44	6° $\mathfrak{I}$ 51'43 -1°51'39	conjunction	9304 Aug 04 00:32	19° $\mathfrak{Q}$ 49'37 -1°10'31
minimum elong	9298 May 22 15:43	6° $\mathfrak{I}$ 51'43 1°51'56	minimum elong	9304 Aug 04 00:34	19° $\mathfrak{Q}$ 49'37 1°10'44
max. Earth dist.	9298 May 22 21:02	6° $\mathfrak{I}$ 53'19 10.77645 AU	max. Earth dist.	9304 Aug 04 08:48	19° $\mathfrak{Q}$ 52'09 10.60830 AU
morning rise	9298 Jun 08 09:46	8° $\mathfrak{I}$ 52'58	morning rise	9304 Aug 21 09:39	21° $\mathfrak{Q}$ 56'46
retrograde	9298 Sep 19 03:39	16° $\mathfrak{I}$ 15'46	retrograde	9304 Dec 04 10:03	29° $\mathfrak{Q}$ 37'11
opposition	9298 Nov 28 09:41	12° $\mathfrak{I}$ 54'11 -2°21'30	opposition	9305 Feb 12 03:19	26° $\mathfrak{Q}$ 12'06 -1°13'28
min. Earth dist.	9298 Nov 28 04:24	12° $\mathfrak{I}$ 55'11 8.77669 AU	min. Earth dist.	9305 Feb 11 20:44	26° $\mathfrak{Q}$ 13'23 8.58396 AU
direct	9299 Feb 05 23:51	9° $\mathfrak{I}$ 33'55	direct	9305 Apr 21 02:19	22° $\mathfrak{Q}$ 50'48
evening set	9299 May 18 01:17	16° $\mathfrak{I}$ 50'04		9305 Jul 28 12:29	0° $\mathfrak{R}$
			evening set	9305 Jul 30 15:45	0° $\mathfrak{R}$ 15'25
conjunction	9299 Jun 03 18:33	18° $\mathfrak{I}$ 51'06 -1°57'26	conjunction	9305 Aug 17 00:46	2° $\mathfrak{R}$ 23'04 -0°48'13
minimum elong	9299 Jun 03 18:32	18° $\mathfrak{I}$ 51'06 1°57'44	minimum elong	9305 Aug 17 00:48	2° $\mathfrak{R}$ 23'04 0°48'23
max. Earth dist.	9299 Jun 04 00:56	18° $\mathfrak{I}$ 53'03 10.77144 AU	max. Earth dist.	9305 Aug 17 08:53	2° $\mathfrak{R}$ 25'34 10.55861 AU
morning rise	9299 Jun 20 13:32	20° $\mathfrak{I}$ 52'37	morning rise	9305 Sep 03 13:21	4° $\mathfrak{R}$ 31'48
retrograde	9299 Oct 01 18:51	28° $\mathfrak{I}$ 17'34	retrograde	9305 Dec 17 18:22	12° $\mathfrak{R}$ 15'25
opposition	9299 Dec 11 02:45	24° $\mathfrak{I}$ 55'26 -2°25'29	opposition	9306 Feb 25 02:49	8° $\mathfrak{R}$ 49'52 -0°44'15
min. Earth dist.	9299 Dec 10 20:26	24° $\mathfrak{I}$ 56'38 8.76643 AU	min. Earth dist.	9306 Feb 24 20:41	8° $\mathfrak{R}$ 51'04 8.53332 AU
direct	9300 Feb 18 11:01	21° $\mathfrak{I}$ 35'22	direct	9306 May 03 19:40	5° $\mathfrak{R}$ 27'54
evening set	9300 May 30 04:28	28° $\mathfrak{I}$ 51'01	evening set	9306 Aug 12 18:03	12° $\mathfrak{R}$ 56'24
	9300 Jun 08 18:05	0° $\mathfrak{S}$			
conjunction	9300 Jun 15 22:53	0° $\mathfrak{S}$ 52'28 -1°58'04	conjunction	9306 Aug 30 06:29	15° $\mathfrak{R}$ 05'37 -0°23'21

minimum elong	9306 Aug 30 06:30	15° $\mathbb{M}$ 05'37	0°23'28	min. Earth dist.	9312 May 13 20:05	27° $\mathbb{M}$ 24'40	8.30600 AU
max. Earth dist.	9306 Aug 30 13:21	15° $\mathbb{M}$ 07'44	10.50799 AU	direct	9312 Jul 20 10:20	23° $\mathbb{M}$ 58'34	
morning rise	9306 Sep 16 22:13	17° $\mathbb{M}$ 15'52			9312 Oct 17 02:06	0° $\mathbb{M}$	
retrograde	9306 Dec 31 03:54	25° $\mathbb{M}$ 02'24		evening set	9312 Nov 01 19:22	1° $\mathbb{M}$ 53'35	
opposition	9307 Mar 10 04:19	21° $\mathbb{M}$ 36'29	-0°12'30				
min. Earth dist.	9307 Mar 09 23:25	21° $\mathbb{M}$ 37'27	8.48291 AU	conjunction	9312 Nov 19 15:27	4° $\mathbb{M}$ 07'52	1°48'35
direct	9307 May 16 17:15	18° $\mathbb{M}$ 13'45		minimum elong	9312 Nov 19 15:25	4° $\mathbb{M}$ 07'52	1°48'52
asc. node	9307 Aug 01 12:45	22° $\mathbb{M}$ 55'54		max. Earth dist.	9312 Nov 19 09:44	4° $\mathbb{M}$ 06'04	10.30074 AU
evening set	9307 Aug 26 02:09	25° $\mathbb{M}$ 46'37		morning rise	9312 Dec 07 10:29	6° $\mathbb{M}$ 21'55	
				retrograde	9313 Mar 20 23:11	14° $\mathbb{M}$ 14'15	
conjunction	9307 Sep 12 17:27	27° $\mathbb{M}$ 57'16	0°03'01	opposition	9313 May 27 04:35	10° $\mathbb{M}$ 48'52	2°20'22
minimum elong	9307 Sep 12 17:27	27° $\mathbb{M}$ 57'16	0°02'59	min. Earth dist.	9313 May 27 09:25	10° $\mathbb{M}$ 47'53	8.30123 AU
behind sun begin	9307 Sep 12 10:14	27° $\mathbb{M}$ 55'04		direct	9313 Aug 03 02:58	7° $\mathbb{M}$ 21'34	
behind sun end	9307 Sep 13 00:40	27° $\mathbb{M}$ 59'29		evening set	9313 Nov 16 01:04	15° $\mathbb{M}$ 18'49	
max. Earth dist.	9307 Sep 12 21:48	27° $\mathbb{M}$ 58'35	10.45850 AU				
	9307 Sep 29 06:42	0° $\mathbb{M}$		conjunction	9313 Dec 03 20:02	17° $\mathbb{M}$ 32'52	1°56'02
morning rise	9307 Sep 30 11:49	0° $\mathbb{M}$ 08'52		minimum elong	9313 Dec 03 20:01	17° $\mathbb{M}$ 32'51	1°56'21
retrograde	9308 Jan 13 15:32	7° $\mathbb{M}$ 57'58		max. Earth dist.	9313 Dec 03 12:29	17° $\mathbb{M}$ 30'28	10.30228 AU
opposition	9308 Mar 22 07:51	4° $\mathbb{M}$ 31'46	0°20'15	morning rise	9313 Dec 21 13:18	19° $\mathbb{M}$ 46'26	
min. Earth dist.	9308 Mar 22 05:09	4° $\mathbb{M}$ 32'18	8.43470 AU	retrograde	9314 Apr 03 13:04	27° $\mathbb{M}$ 36'32	
direct	9308 May 28 18:35	1° $\mathbb{M}$ 08'10		opposition	9314 Jun 09 16:40	24° $\mathbb{M}$ 11'44	2°25'44
evening set	9308 Sep 07 15:57	8° $\mathbb{M}$ 45'44		min. Earth dist.	9314 Jun 09 22:53	24° $\mathbb{M}$ 10'29	8.30941 AU
				direct	9314 Aug 16 22:49	20° $\mathbb{M}$ 44'05	
conjunction	9308 Sep 25 09:37	10° $\mathbb{M}$ 57'41	0°29'20	evening set	9314 Nov 30 05:14	28° $\mathbb{M}$ 42'14	
minimum elong	9308 Sep 25 09:36	10° $\mathbb{M}$ 57'41	0°29'22		9314 Dec 10 14:13	0° $\mathbb{M}$	
max. Earth dist.	9308 Sep 25 11:06	10° $\mathbb{M}$ 58'09	10.41195 AU				
morning rise	9308 Oct 13 05:52	13° $\mathbb{M}$ 10'24		conjunction	9314 Dec 17 22:46	0° $\mathbb{M}$ 55'43	1°57'13
retrograde	9309 Jan 26 05:37	21° $\mathbb{M}$ 01'37		minimum elong	9314 Dec 17 22:46	0° $\mathbb{M}$ 55'43	1°57'32
opposition	9309 Apr 04 13:21	17° $\mathbb{M}$ 35'16	0°52'19	max. Earth dist.	9314 Dec 17 13:53	0° $\mathbb{M}$ 52'55	10.31676 AU
min. Earth dist.	9309 Apr 04 12:52	17° $\mathbb{M}$ 35'22	8.39044 AU	morning rise	9315 Jan 04 14:02	3° $\mathbb{M}$ 08'33	
direct	9309 Jun 10 23:01	14° $\mathbb{M}$ 10'46		retrograde	9315 Apr 17 00:24	10° $\mathbb{M}$ 55'36	
evening set	9309 Sep 21 11:02	21° $\mathbb{M}$ 53'17		opposition	9315 Jun 23 04:37	7° $\mathbb{M}$ 31'26	2°23'14
				min. Earth dist.	9315 Jun 23 11:29	7° $\mathbb{M}$ 30'04	8.33000 AU
conjunction	9309 Oct 09 06:28	24° $\mathbb{M}$ 06'18	0°54'25	direct	9315 Aug 30 18:50	4° $\mathbb{M}$ 03'40	
minimum elong	9309 Oct 09 06:26	24° $\mathbb{M}$ 06'17	0°54'32	evening set	9315 Dec 14 06:15	12° $\mathbb{M}$ 01'14	
max. Earth dist.	9309 Oct 09 05:36	24° $\mathbb{M}$ 06'01	10.37020 AU				
morning rise	9309 Oct 27 03:42	26° $\mathbb{M}$ 19'52		conjunction	9315 Dec 31 22:10	14° $\mathbb{M}$ 13'58	1°52'06
	9309 Nov 28 03:03	0° $\mathbb{M}$		minimum elong	9315 Dec 31 22:11	14° $\mathbb{M}$ 13'58	1°52'24
retrograde	9310 Feb 08 20:47	4° $\mathbb{M}$ 12'40		max. Earth dist.	9315 Dec 31 12:59	14° $\mathbb{M}$ 11'04	10.34326 AU
opposition	9310 Apr 17 20:48	0° $\mathbb{M}$ 46'21	1°21'58	morning rise	9316 Jan 18 11:18	16° $\mathbb{M}$ 25'51	
min. Earth dist.	9310 Apr 17 21:57	0° $\mathbb{M}$ 46'07	8.35237 AU	retrograde	9316 Apr 29 09:52	24° $\mathbb{M}$ 09'11	
	9310 Apr 27 13:31	30° $\mathbb{R}$ $\mathbb{M}$		opposition	9316 Jul 05 15:40	20° $\mathbb{M}$ 45'40	2°13'07
direct	9310 Jun 24 08:15	27° $\mathbb{M}$ 21'00		min. Earth dist.	9316 Jul 05 22:16	20° $\mathbb{M}$ 44'22	8.36168 AU
	9310 Aug 19 07:11	0° $\mathbb{M}$		direct	9316 Sep 12 13:42	17° $\mathbb{M}$ 18'01	
evening set	9310 Oct 05 10:52	5° $\mathbb{M}$ 08'22		evening set	9316 Dec 27 03:16	25° $\mathbb{M}$ 13'41	
conjunction	9310 Oct 23 07:16	7° $\mathbb{M}$ 22'08	1°16'50	conjunction	9317 Jan 13 17:26	27° $\mathbb{M}$ 25'28	1°41'06
minimum elong	9310 Oct 23 07:13	7° $\mathbb{M}$ 22'07	1°17'00	minimum elong	9317 Jan 13 17:28	27° $\mathbb{M}$ 25'28	1°41'23
max. Earth dist.	9310 Oct 23 04:42	7° $\mathbb{M}$ 21'20	10.33599 AU	max. Earth dist.	9317 Jan 13 08:55	27° $\mathbb{M}$ 22'47	10.38009 AU
morning rise	9310 Nov 10 04:28	9° $\mathbb{M}$ 36'13		morning rise	9317 Jan 31 04:16	29° $\mathbb{M}$ 36'16	
	9310 Dec 30 02:13	15° $\mathbb{M}$			9317 Feb 03 09:46	0° $\mathbb{M}$	
retrograde	9311 Feb 22 12:50	17° $\mathbb{M}$ 29'51		retrograde	9317 May 12 16:31	7° $\mathbb{M}$ 15'27	
	9311 Apr 19 10:53	15° $\mathbb{R}$ $\mathbb{M}$		opposition	9317 Jul 19 01:20	3° $\mathbb{M}$ 52'36	1°56'07
opposition	9311 May 01 06:02	14° $\mathbb{M}$ 03'41	1°47'29	min. Earth dist.	9317 Jul 19 07:27	3° $\mathbb{M}$ 51'23	8.40257 AU
min. Earth dist.	9311 May 01 08:11	14° $\mathbb{M}$ 03'15	8.32344 AU	direct	9317 Sep 26 06:51	0° $\mathbb{M}$ 25'16	
direct	9311 Jul 07 20:20	10° $\mathbb{M}$ 37'36		evening set	9318 Jan 09 19:20	8° $\mathbb{M}$ 17'57	
	9311 Sep 19 12:46	15° $\mathbb{M}$					
evening set	9311 Oct 19 14:10	18° $\mathbb{M}$ 29'14		conjunction	9318 Jan 27 07:30	10° $\mathbb{M}$ 28'36	1°24'58
				minimum elong	9318 Jan 27 07:32	10° $\mathbb{M}$ 28'37	1°25'12
conjunction	9311 Nov 06 10:45	20° $\mathbb{M}$ 43'26	1°35'15	max. Earth dist.	9318 Jan 26 23:55	10° $\mathbb{M}$ 26'14	10.42516 AU
minimum elong	9311 Nov 06 10:42	20° $\mathbb{M}$ 43'26	1°35'29	morning rise	9318 Feb 13 15:59	12° $\mathbb{M}$ 38'12	
max. Earth dist.	9311 Nov 06 06:49	20° $\mathbb{M}$ 42'12	10.31222 AU		9318 Mar 05 15:53	15° $\mathbb{M}$	
morning rise	9311 Nov 24 07:07	22° $\mathbb{M}$ 57'40		retrograde	9318 May 25 19:28	20° $\mathbb{M}$ 13'09	
	9312 Feb 05 06:44	0° $\mathbb{M}$		opposition	9318 Aug 01 09:31	16° $\mathbb{M}$ 50'58	1°33'20
retrograde	9312 Mar 07 06:09	0° $\mathbb{M}$ 51'11		min. Earth dist.	9318 Aug 01 15:14	16° $\mathbb{M}$ 49'51	8.45056 AU
	9312 Apr 07 10:09	30° $\mathbb{R}$ $\mathbb{M}$			9318 Aug 26 06:08	15° $\mathbb{R}$ $\mathbb{M}$	
opposition	9312 May 13 16:48	27° $\mathbb{M}$ 25'20	2°07'21	direct	9318 Oct 09 22:09	13° $\mathbb{M}$ 24'10	

	9318 Nov 22 20:13	15°♊	min. Earth dist.	9324 Oct 16 15:05	1°♊36'56	8.74616 AU
evening set	9319 Jan 23 05:47	21°♊12'59		9324 Nov 07 22:31	30°♊♊	
			direct	9324 Dec 25 19:53	28°♊15'10	
conjunction	9319 Feb 09 15:41	23°♊22'23 1°04'40		9325 Feb 10 07:24	0°♊	
minimum elong	9319 Feb 09 15:43	23°♊22'24 1°04'52	evening set	9325 Apr 07 11:55	5°♊38'08	
max. Earth dist.	9319 Feb 09 08:55	23°♊20'17 10.47613 AU				
morning rise	9319 Feb 26 21:55	25°♊30'43	conjunction	9325 Apr 24 07:23	7°♊40'05 -1°17'36	
	9319 Apr 08 14:36	0°♊	minimum elong	9325 Apr 24 07:21	7°♊40'04 1°17'47	
retrograde	9319 Jun 07 19:43	3°♊01'36	max. Earth dist.	9325 Apr 24 09:17	7°♊40'39 10.76125 AU	
	9319 Aug 10 09:25	30°♊♊	morning rise	9325 May 11 02:07	9°♊41'48	
opposition	9319 Aug 14 15:47	29°♊40'03 1°06'08		9325 Jul 01 22:16	15°♊	
min. Earth dist.	9319 Aug 14 21:16	29°♊38'59 8.50324 AU	retrograde	9325 Aug 20 17:37	17°♊01'02	
direct	9319 Oct 23 09:50	26°♊13'58		9325 Oct 11 12:21	15°♊♊	
	9319 Dec 31 23:26	0°♊	opposition	9325 Oct 29 11:39	13°♊41'00 -1°46'17	
evening set	9320 Feb 05 10:47	3°♊58'24	min. Earth dist.	9325 Oct 29 09:06	13°♊41'29 8.77510 AU	
			direct	9326 Jan 07 13:02	10°♊20'14	
conjunction	9320 Feb 22 18:15	6°♊06'28 0°41'24		9326 Mar 27 02:58	15°♊	
minimum elong	9320 Feb 22 18:16	6°♊06'28 0°41'32	evening set	9326 Apr 19 16:29	17°♊40'08	
max. Earth dist.	9320 Feb 22 11:51	6°♊04'29 10.53044 AU				
morning rise	9320 Mar 10 22:21	8°♊13'31	conjunction	9326 May 06 10:27	19°♊41'22 -1°34'30	
retrograde	9320 Jun 19 15:58	15°♊40'42	minimum elong	9326 May 06 10:25	19°♊41'22 1°34'43	
opposition	9320 Aug 26 19:44	12°♊19'44 0°36'03	max. Earth dist.	9326 May 06 14:00	19°♊42'27 10.78487 AU	
min. Earth dist.	9320 Aug 27 00:24	12°♊18'49 8.55797 AU	morning rise	9326 May 23 04:23	21°♊42'35	
direct	9320 Nov 04 18:29	8°♊54'29	retrograde	9326 Sep 02 05:29	29°♊02'27	
evening set	9321 Feb 17 10:24	16°♊34'18	opposition	9326 Nov 11 05:39	25°♊42'08 -2°04'32	
			min. Earth dist.	9326 Nov 11 01:17	25°♊42'58 8.79376 AU	
conjunction	9321 Mar 06 15:20	18°♊41'00 0°16'23	direct	9327 Jan 20 03:27	22°♊21'59	
minimum elong	9321 Mar 06 15:21	18°♊41'00 0°16'27	evening set	9327 May 01 19:21	29°♊39'30	
max. Earth dist.	9321 Mar 06 10:08	18°♊39'24 10.58534 AU		9327 May 04 16:15	0°♊♊	
morning rise	9321 Mar 23 17:17	20°♊46'47				
retrograde	9321 Jul 02 08:48	28°♊10'54	conjunction	9327 May 18 12:34	1°♊40'18 -1°47'12	
opposition	9321 Sep 08 21:44	24°♊50'23 0°04'37	minimum elong	9327 May 18 12:33	1°♊40'17 1°47'29	
min. Earth dist.	9321 Sep 09 00:44	24°♊49'48 8.61202 AU	max. Earth dist.	9327 May 18 18:22	1°♊42'03 10.79760 AU	
desc. node	9321 Nov 02 21:48	21°♊37'32	morning rise	9327 Jun 04 06:15	3°♊41'16	
direct	9321 Nov 18 01:31	21°♊26'05	retrograde	9327 Sep 14 18:57	11°♊02'26	
evening set	9322 Mar 02 04:47	29°♊01'14	opposition	9327 Nov 23 22:54	7°♊41'43 -2°17'19	
	9322 Mar 10 06:29	0°♊♊	min. Earth dist.	9327 Nov 23 17:04	7°♊42'49 8.80089 AU	
			direct	9328 Feb 01 16:19	4°♊22'00	
conjunction	9322 Mar 19 07:14	1°♊06'34 -0°09'14	evening set	9328 May 12 21:40	11°♊37'49	
minimum elong	9322 Mar 19 07:14	1°♊06'34 0°09'13				
behind sun begin	9322 Mar 19 01:14	1°♊04'45	conjunction	9328 May 29 14:41	13°♊38'32 -1°55'14	
behind sun end	9322 Mar 19 13:13	1°♊08'24	minimum elong	9328 May 29 14:40	13°♊38'31 1°55'32	
max. Earth dist.	9322 Mar 19 04:16	1°♊05'41 10.63810 AU	max. Earth dist.	9328 May 29 21:30	13°♊40'36 10.79839 AU	
morning rise	9322 Apr 05 06:58	3°♊11'08	morning rise	9328 Jun 15 08:51	15°♊39'36	
retrograde	9322 Jul 15 01:54	10°♊32'55	retrograde	9328 Sep 26 10:15	23°♊02'37	
opposition	9322 Sep 21 21:44	7°♊12'43 -0°26'39	opposition	9328 Dec 05 15:50	19°♊41'25 -2°24'08	
min. Earth dist.	9322 Sep 21 22:42	7°♊12'32 8.66284 AU	min. Earth dist.	9328 Dec 05 09:38	19°♊42'35 8.79557 AU	
direct	9322 Dec 01 03:14	3°♊49'24	direct	9329 Feb 13 02:11	16°♊21'55	
evening set	9323 Mar 14 18:45	11°♊20'03	evening set	9329 May 25 00:13	23°♊36'53	
conjunction	9323 Mar 31 18:46	13°♊24'08 -0°34'05	conjunction	9329 Jun 10 17:48	25°♊37'50 -1°58'14	
minimum elong	9323 Mar 31 18:45	13°♊24'08 0°34'07	minimum elong	9329 Jun 10 17:48	25°♊37'50 1°58'33	
max. Earth dist.	9323 Mar 31 18:13	13°♊23'58 10.68634 AU	max. Earth dist.	9329 Jun 11 00:25	25°♊39'51 10.78661 AU	
morning rise	9323 Apr 17 16:26	15°♊27'34	morning rise	9329 Jun 27 13:23	27°♊39'23	
retrograde	9323 Jul 27 16:42	22°♊47'43		9329 Jul 18 02:21	0°♊♊	
opposition	9323 Oct 04 19:48	19°♊27'43 -0°56'21	retrograde	9329 Oct 09 01:07	5°♊04'51	
min. Earth dist.	9323 Oct 04 19:25	19°♊27'48 8.70822 AU	opposition	9329 Dec 18 08:54	1°♊43'02 -2°24'41	
direct	9323 Dec 14 00:26	16°♊05'22	min. Earth dist.	9329 Dec 18 03:01	1°♊44'09 8.77748 AU	
evening set	9324 Mar 26 04:57	23°♊31'55		9330 Jan 11 05:31	30°♊♊	
			direct	9330 Feb 25 12:39	28°♊23'35	
conjunction	9324 Apr 12 02:33	25°♊34'50 -0°57'12		9330 Apr 10 11:50	0°♊♊	
minimum elong	9324 Apr 12 02:31	25°♊34'50 0°57'18	evening set	9330 Jun 06 03:53	5°♊38'35	
max. Earth dist.	9324 Apr 12 03:22	25°♊35'05 10.72796 AU				
morning rise	9324 Apr 28 22:32	27°♊37'19	conjunction	9330 Jun 22 22:58	7°♊40'10 -1°56'04	
	9324 May 19 15:59	0°♊	minimum elong	9330 Jun 22 22:59	7°♊40'10 1°56'22	
retrograde	9324 Aug 08 05:04	4°♊56'37	max. Earth dist.	9330 Jun 23 05:35	7°♊42'11 10.76249 AU	
opposition	9324 Oct 16 16:24	1°♊36'42 -1°23'15	morning rise	9330 Jul 09 20:44	9°♊42'31	

retrograde	9330 Oct 21 18:46	17°  10'58			9336 Nov 15 13:22	0° 	
opposition	9330 Dec 31 02:25	13°  48'27 -2°18'52		retrograde	9337 Jan 06 17:15	2°  14'10	
min. Earth dist.	9330 Dec 30 20:24	13°  49'36 8.74752 AU		asc. node	9337 Jan 17 08:43	2°  08'16	
direct	9331 Mar 10 00:16	10°  28'50			9337 Mar 01 01:53	30°  R 	
evening set	9331 Jun 18 09:51	17°  44'41		opposition	9337 Mar 16 14:48	28°  14'31 0°05'05	
				min. Earth dist.	9337 Mar 16 11:45	28°  14'07 8.44122 AU	
conjunction	9331 Jul 05 07:18	19°  47'15 -1°48'43		direct	9337 May 23 03:50	25°  14'46	
minimum elong	9331 Jul 05 07:19	19°  47'15 1°49'00			9337 Aug 06 21:37	0° 	
max. Earth dist.	9331 Jul 05 14:44	19°  49'31 10.72749 AU		evening set	9337 Sep 01 17:29	2°  59'36	
morning rise	9331 Jul 22 07:44	21°  50'43					
retrograde	9331 Nov 03 15:59	29°  22'25		conjunction	9337 Sep 19 10:22	5°  11'10 0°17'14	
opposition	9332 Jan 12 20:36	25°  59'07 -2°06'49		minimum elong	9337 Sep 19 10:21	5°  11'10 0°17'14	
min. Earth dist.	9332 Jan 12 14:03	26°  00'22 8.70761 AU		max. Earth dist.	9337 Sep 19 13:35	5°  12'10 10.41600 AU	
direct	9332 Mar 21 11:20	22°  39'09		morning rise	9337 Oct 07 05:50	7°  23'36	
evening set	9332 Jun 29 18:57	29°  56'36		retrograde	9338 Jan 20 07:29	15°  14'32	
	9332 Jun 30 06:18	0° 		opposition	9338 Mar 29 19:22	11°  47'36 0°37'43	
				min. Earth dist.	9338 Mar 29 17:20	11°  48'01 8.39218 AU	
conjunction	9332 Jul 16 19:21	2°  00'26 -1°36'26		direct	9338 Jun 05 05:39	8°  22'57	
minimum elong	9332 Jul 16 19:23	2°  00'26 1°36'42		evening set	9338 Sep 15 10:23	16°  03'47	
max. Earth dist.	9332 Jul 17 03:21	2°  02'52 10.68374 AU					
morning rise	9332 Aug 02 22:59	4°  05'15		conjunction	9338 Oct 03 05:16	18°  16'33 0°43'05	
retrograde	9332 Nov 15 15:25	11°  40'25		minimum elong	9338 Oct 03 05:14	18°  16'33 0°43'10	
opposition	9333 Jan 24 16:07	8°  16'17 -1°48'52		max. Earth dist.	9338 Oct 03 06:18	18°  16'53 10.37013 AU	
min. Earth dist.	9333 Jan 24 09:21	8°  17'36 8.66001 AU		morning rise	9338 Oct 21 02:06	20°  30'00	
direct	9333 Apr 02 23:58	4°  55'48		retrograde	9339 Feb 02 23:05	28°  22'50	
evening set	9333 Jul 12 08:01	12°  15'37		opposition	9339 Apr 12 02:11	24°  55'51 1°08'44	
				min. Earth dist.	9339 Apr 12 01:52	24°  55'55 8.35050 AU	
conjunction	9333 Jul 29 11:42	14°  02'54 -1°19'36		direct	9339 Jun 18 12:22	21°  30'19	
minimum elong	9333 Jul 29 11:45	14°  02'55 1°19'50		evening set	9339 Sep 29 08:12	29°  16'05	
max. Earth dist.	9333 Jul 29 19:07	14°  02'31 10.63353 AU			9339 Oct 05 06:01	0° 	
	9333 Aug 03 19:23	15° 					
morning rise	9333 Aug 15 19:00	16°  02'16		conjunction	9339 Oct 17 04:15	1°  29'45 1°06'55	
retrograde	9333 Nov 28 18:17	24°  05'56		minimum elong	9339 Oct 17 04:12	1°  29'44 1°07'04	
opposition	9334 Feb 06 13:07	20°  04'03 -1°25'41		max. Earth dist.	9339 Oct 17 02:52	1°  29'19 10.33273 AU	
min. Earth dist.	9334 Feb 06 07:12	20°  04'21 8.60708 AU		morning rise	9339 Nov 04 01:36	3°  14'51	
direct	9334 Apr 15 14:12	17°  01'52		retrograde	9340 Feb 16 14:41	11°  13'53	
evening set	9334 Jul 25 02:02	24°  04'27		opposition	9340 Apr 24 10:58	8°  11'02 1°36'23	
				min. Earth dist.	9340 Apr 24 12:30	8°  10'44 8.31852 AU	
conjunction	9334 Aug 11 09:13	26°  04'40 -0°58'52		direct	9340 Jun 30 23:13	4°  14'43	
minimum elong	9334 Aug 11 09:15	26°  04'40 0°59'03		evening set	9340 Oct 12 10:11	12°  13'50	
max. Earth dist.	9334 Aug 11 15:12	26°  05'13 10.57918 AU					
morning rise	9334 Aug 28 20:15	28°  05'41		conjunction	9340 Oct 30 06:42	14°  14'16 1°27'20	
	9334 Sep 06 14:06	0° 		minimum elong	9340 Oct 30 06:39	14°  14'15 1°27'32	
retrograde	9334 Dec 11 23:40	6°  13'39		max. Earth dist.	9340 Oct 30 03:05	14°  14'08 10.30597 AU	
opposition	9335 Feb 19 11:40	3°  14'11 -0°58'08			9340 Oct 31 16:42	15° 	
min. Earth dist.	9335 Feb 19 07:05	3°  15'05 8.55126 AU		morning rise	9340 Nov 17 03:45	17°  13'41	
	9335 Apr 16 05:29	30°  R 		retrograde	9341 Mar 01 07:33	24°  11'58	
direct	9335 Apr 28 06:41	29°  05'21		opposition	9341 May 07 21:16	21°  11'28 1°59'01	
	9335 May 10 08:32	0° 		min. Earth dist.	9341 May 08 00:19	21°  13'51 8.29809 AU	
evening set	9335 Aug 07 01:23	7°  18'55		direct	9341 Jul 14 12:51	18°  14'32	
				evening set	9341 Oct 26 14:55	25°  15'40	
conjunction	9335 Aug 24 12:08	9°  18'27 -0°35'05					
minimum elong	9335 Aug 24 12:09	9°  18'27 0°35'13		conjunction	9341 Nov 13 11:17	28°  13'08 1°43'07	
max. Earth dist.	9335 Aug 24 17:07	9°  18'59 10.52310 AU		minimum elong	9341 Nov 13 11:15	28°  13'07 1°43'22	
morning rise	9335 Sep 11 02:35	11°  19'37		max. Earth dist.	9341 Nov 13 06:14	28°  13'32 10.29146 AU	
retrograde	9335 Dec 25 06:14	19°  22'27			9341 Nov 27 14:45	0° 	
opposition	9336 Mar 03 12:13	15°  25'17 -0°27'24		morning rise	9341 Dec 01 07:15	0°  27'30	
min. Earth dist.	9336 Mar 03 08:34	15°  25'00 8.49511 AU		retrograde	9342 Mar 15 00:24	8°  21'03	
direct	9336 May 10 04:20	12°  23'35		opposition	9342 May 21 08:50	4°  25'06 2°15'17	
evening set	9336 Aug 19 06:21	20°  14'30		min. Earth dist.	9342 May 21 12:36	4°  25'40 8.29034 AU	
				direct	9342 Jul 28 05:24	1°  27'45	
conjunction	9336 Sep 05 20:26	22°  14'38 -0°09'21		evening set	9342 Nov 09 20:45	9°  27'40	
minimum elong	9336 Sep 05 20:27	22°  14'38 0°09'25					
behind sun begin	9336 Sep 05 14:27	22°  12'47		conjunction	9342 Nov 27 16:22	11°  29'00 1°53'19	
behind sun end	9336 Sep 06 02:27	22°  16'28		minimum elong	9342 Nov 27 16:21	11°  29'00 1°53'37	
max. Earth dist.	9336 Sep 06 00:48	22°  15'57 10.46785 AU		max. Earth dist.	9342 Nov 27 10:40	11°  27'12 10.29005 AU	
morning rise	9336 Sep 23 13:46	24°  12'45		morning rise	9342 Dec 15 10:37	13°  25'59	

retrograde	9343 Mar 28 15:58	21° $\mathbb{A}$ 44'51		morning rise	9349 Mar 05 11:56	2° $\mathbb{H}$ 48'45	
opposition	9343 Jun 03 21:11	18° $\mathbb{A}$ 19'35	2°24'11	retrograde	9349 Jun 14 07:59	10° $\mathbb{H}$ 17'45	
min. Earth dist.	9343 Jun 04 01:26	18° $\mathbb{A}$ 18'43	8.29578 AU	opposition	9349 Aug 21 07:21	6° $\mathbb{H}$ 56'54	0°49'40
direct	9343 Aug 11 00:13	14° $\mathbb{A}$ 52'01		min. Earth dist.	9349 Aug 21 12:07	6° $\mathbb{H}$ 55'59	8.53755 AU
evening set	9343 Nov 24 02:08	22° $\mathbb{A}$ 50'25		direct	9349 Oct 30 04:00	3° $\mathbb{H}$ 31'40	
				evening set	9350 Feb 12 00:47	11° $\mathbb{H}$ 13'51	
conjunction	9343 Dec 11 20:34	25° $\mathbb{A}$ 04'21	1°57'22				
minimum elong	9343 Dec 11 20:34	25° $\mathbb{A}$ 04'21	1°57'42	conjunction	9350 Mar 01 07:03	13° $\mathbb{H}$ 21'13	0°27'37
max. Earth dist.	9343 Dec 11 14:18	25° $\mathbb{A}$ 02'22	10.30199 AU	minimum elong	9350 Mar 01 07:04	13° $\mathbb{H}$ 21'13	0°27'43
morning rise	9343 Dec 29 12:47	27° $\mathbb{A}$ 17'40		max. Earth dist.	9350 Mar 01 01:24	13° $\mathbb{H}$ 19'28	10.56335 AU
	9344 Jan 21 07:29	0° $\mathbb{B}$		morning rise	9350 Mar 18 09:50	15° $\mathbb{H}$ 27'36	
retrograde	9344 Apr 10 06:29	5° $\mathbb{B}$ 06'51		retrograde	9350 Jun 27 04:04	22° $\mathbb{H}$ 53'25	
opposition	9344 Jun 16 09:39	1° $\mathbb{B}$ 42'23	2°25'14	opposition	9350 Sep 03 11:01	19° $\mathbb{H}$ 33'02	0°18'37
min. Earth dist.	9344 Jun 16 14:35	1° $\mathbb{B}$ 41'23	8.31421 AU	min. Earth dist.	9350 Sep 03 15:24	19° $\mathbb{H}$ 32'12	8.58843 AU
	9344 Jul 08 15:28	30° $\mathbb{R}$ $\mathbb{A}$		direct	9350 Nov 12 11:28	16° $\mathbb{H}$ 08'37	
direct	9344 Aug 23 18:49	28° $\mathbb{A}$ 14'47		evening set	9351 Feb 24 22:13	23° $\mathbb{H}$ 46'20	
	9344 Oct 08 06:31	0° $\mathbb{B}$					
evening set	9344 Dec 07 05:28	6° $\mathbb{B}$ 13'16		conjunction	9351 Mar 14 01:54	25° $\mathbb{H}$ 52'23	0°02'09
				minimum elong	9351 Mar 14 01:52	25° $\mathbb{H}$ 52'23	0°02'12
conjunction	9344 Dec 24 22:21	8° $\mathbb{B}$ 26'31	1°55'04	behind sun begin	9351 Mar 13 18:47	25° $\mathbb{H}$ 50'13	
minimum elong	9344 Dec 24 22:22	8° $\mathbb{B}$ 26'31	1°55'24	behind sun end	9351 Mar 14 08:58	25° $\mathbb{H}$ 54'33	
max. Earth dist.	9344 Dec 24 15:22	8° $\mathbb{B}$ 24'19	10.32659 AU	max. Earth dist.	9351 Mar 13 20:54	25° $\mathbb{H}$ 50'53	10.61281 AU
morning rise	9345 Jan 11 12:25	10° $\mathbb{B}$ 38'57		morning rise	9351 Mar 31 02:35	27° $\mathbb{H}$ 57'35	
retrograde	9345 Apr 23 18:50	18° $\mathbb{B}$ 24'37		desc. node	9351 Apr 14 05:10	29° $\mathbb{H}$ 37'17	
opposition	9345 Jun 29 21:49	15° $\mathbb{B}$ 01'00	2°18'29		9351 Apr 17 13:25	0° $\mathbb{Y}$	
min. Earth dist.	9345 Jun 30 03:44	14° $\mathbb{B}$ 59'49	8.34447 AU	retrograde	9351 Jul 09 21:59	5° $\mathbb{Y}$ 20'55	
direct	9345 Sep 06 13:57	11° $\mathbb{B}$ 33'33		opposition	9351 Sep 16 12:44	2° $\mathbb{Y}$ 00'50	-0°12'57
evening set	9345 Dec 21 05:20	19° $\mathbb{B}$ 30'42		min. Earth dist.	9351 Sep 16 16:25	2° $\mathbb{Y}$ 00'08	8.63598 AU
					9351 Oct 14 17:47	30° $\mathbb{R}$ $\mathbb{H}$	
conjunction	9346 Jan 07 20:20	21° $\mathbb{B}$ 43'02	1°46'39	direct	9351 Nov 25 15:32	28° $\mathbb{H}$ 37'13	
minimum elong	9346 Jan 07 20:21	21° $\mathbb{B}$ 43'02	1°46'57		9352 Jan 05 17:40	0° $\mathbb{Y}$	
max. Earth dist.	9346 Jan 07 12:24	21° $\mathbb{B}$ 40'32	10.36236 AU	evening set	9352 Mar 08 15:08	6° $\mathbb{Y}$ 10'35	
morning rise	9346 Jan 25 08:12	23° $\mathbb{B}$ 54'25					
	9346 Mar 25 10:27	0° $\mathbb{A}$		conjunction	9352 Mar 25 16:12	8° $\mathbb{Y}$ 15'23	-0°23'17
retrograde	9346 May 07 02:59	1° $\mathbb{A}$ 35'57		minimum elong	9352 Mar 25 16:11	8° $\mathbb{Y}$ 15'22	0°23'18
	9346 Jun 19 17:23	30° $\mathbb{R}$ $\mathbb{B}$		max. Earth dist.	9352 Mar 25 12:09	8° $\mathbb{Y}$ 14'09	10.65803 AU
opposition	9346 Jul 13 08:56	28° $\mathbb{B}$ 13'10	2°04'26	morning rise	9352 Apr 11 14:57	10° $\mathbb{Y}$ 19'29	
min. Earth dist.	9346 Jul 13 15:20	28° $\mathbb{B}$ 11'54	8.38482 AU	retrograde	9352 Jul 21 12:32	17° $\mathbb{Y}$ 41'01	
direct	9346 Sep 20 09:10	24° $\mathbb{B}$ 46'04		opposition	9352 Sep 28 12:28	14° $\mathbb{Y}$ 21'01	-0°43'36
	9346 Dec 12 06:35	0° $\mathbb{A}$		min. Earth dist.	9352 Sep 28 14:44	14° $\mathbb{Y}$ 20'36	8.67859 AU
evening set	9347 Jan 04 00:28	2° $\mathbb{A}$ 40'36		direct	9352 Dec 07 17:02	10° $\mathbb{Y}$ 58'11	
				evening set	9353 Mar 21 03:51	18° $\mathbb{Y}$ 27'27	
conjunction	9347 Jan 21 13:26	4° $\mathbb{A}$ 51'49	1°32'42				
minimum elong	9347 Jan 21 13:28	4° $\mathbb{A}$ 51'49	1°32'58	conjunction	9353 Apr 07 02:32	20° $\mathbb{Y}$ 31'05	-0°47'22
max. Earth dist.	9347 Jan 21 05:13	4° $\mathbb{A}$ 49'14	10.40719 AU	minimum elong	9353 Apr 07 02:31	20° $\mathbb{Y}$ 31'04	0°47'27
morning rise	9347 Feb 07 23:07	7° $\mathbb{A}$ 02'01		max. Earth dist.	9353 Apr 07 00:33	20° $\mathbb{Y}$ 30'28	10.69737 AU
retrograde	9347 May 20 06:45	14° $\mathbb{A}$ 39'11		morning rise	9353 Apr 23 23:26	22° $\mathbb{Y}$ 34'11	
opposition	9347 Jul 26 18:25	11° $\mathbb{A}$ 17'09	1°44'04	retrograde	9353 Aug 03 02:38	29° $\mathbb{Y}$ 54'43	
min. Earth dist.	9347 Jul 27 00:31	11° $\mathbb{A}$ 15'57	8.43277 AU	opposition	9353 Oct 11 10:38	26° $\mathbb{Y}$ 34'37	-1°11'58
direct	9347 Oct 04 03:30	7° $\mathbb{A}$ 50'31		min. Earth dist.	9353 Oct 11 10:37	26° $\mathbb{Y}$ 34'38	8.71462 AU
	9348 Jan 11 21:26	15° $\mathbb{A}$		direct	9353 Dec 20 15:51	23° $\mathbb{Y}$ 12'31	
evening set	9348 Jan 17 14:04	15° $\mathbb{A}$ 41'25			9354 Mar 28 04:36	0° $\mathbb{B}$	
				evening set	9354 Apr 02 12:51	0° $\mathbb{B}$ 38'00	
conjunction	9348 Feb 04 00:59	17° $\mathbb{A}$ 51'23	1°14'08				
minimum elong	9348 Feb 04 01:01	17° $\mathbb{A}$ 51'24	1°14'21	conjunction	9354 Apr 19 09:28	2° $\mathbb{B}$ 40'38	-1°09'08
max. Earth dist.	9348 Feb 03 17:18	17° $\mathbb{A}$ 48'59	10.45805 AU	minimum elong	9354 Apr 19 09:26	2° $\mathbb{B}$ 40'37	1°09'17
morning rise	9348 Feb 21 08:26	20° $\mathbb{A}$ 00'19		max. Earth dist.	9354 Apr 19 10:14	2° $\mathbb{B}$ 40'52	10.72927 AU
retrograde	9348 Jun 01 08:55	27° $\mathbb{A}$ 33'12		morning rise	9354 May 06 04:46	4° $\mathbb{B}$ 42'55	
opposition	9348 Aug 08 01:55	24° $\mathbb{A}$ 11'48	1°18'40	retrograde	9354 Aug 15 17:44	12° $\mathbb{B}$ 03'10	
min. Earth dist.	9348 Aug 08 07:17	24° $\mathbb{A}$ 10'45	8.48487 AU	opposition	9354 Oct 24 07:17	8° $\mathbb{B}$ 42'50	-1°36'54
direct	9348 Oct 16 17:33	20° $\mathbb{A}$ 45'48		min. Earth dist.	9354 Oct 24 05:27	8° $\mathbb{B}$ 43'11	8.74263 AU
evening set	9349 Jan 29 22:10	28° $\mathbb{A}$ 32'26		direct	9355 Jan 02 10:00	5° $\mathbb{B}$ 21'21	
	9349 Feb 10 18:40	0° $\mathbb{H}$		evening set	9355 Apr 14 19:13	12° $\mathbb{B}$ 43'36	
conjunction	9349 Feb 16 06:51	0° $\mathbb{H}$ 41'07	0°52'02	conjunction	9355 May 01 14:04	14° $\mathbb{B}$ 45'27	-1°27'42
minimum elong	9349 Feb 16 06:53	0° $\mathbb{H}$ 41'07	0°52'11	minimum elong	9355 May 01 14:02	14° $\mathbb{B}$ 45'26	1°27'54
max. Earth dist.	9349 Feb 16 00:12	0° $\mathbb{H}$ 39'03	10.51115 AU	max. Earth dist.	9355 May 01 16:40	14° $\mathbb{B}$ 46'14	10.75248 AU

	9355 May 03 13:51	15°♄	morning rise	9361 Jul 29 00:34	29°♄13'49
morning rise	9355 May 18 08:19	16°♄47'09		9361 Aug 04 12:37	0°♄
retrograde	9355 Aug 28 06:01	24°♄07'46	retrograde	9361 Nov 10 13:17	6°♄48'18
opposition	9355 Nov 06 02:32	20°♄47'06 -1°57'25	opposition	9362 Jan 19 16:32	3°♄24'10 -1°57'04
min. Earth dist.	9355 Nov 05 23:38	20°♄47'39 8.76149 AU	min. Earth dist.	9362 Jan 19 09:23	3°♄25'33 8.66523 AU
direct	9356 Jan 15 01:06	17°♄26'07	direct	9362 Mar 29 02:25	0°♄03'37
evening set	9356 Apr 25 23:39	24°♄45'49	evening set	9362 Jul 07 10:51	7°♄23'06
conjunction	9356 May 12 17:12	26°♄47'07 -1°42'21	conjunction	9362 Jul 24 13:07	9°♄27'55 -1°27'06
minimum elong	9356 May 12 17:10	26°♄47'06 1°42'36	minimum elong	9362 Jul 24 13:09	9°♄27'56 1°27'21
max. Earth dist.	9356 May 12 20:41	26°♄48'10 10.76613 AU	max. Earth dist.	9362 Jul 24 21:44	9°♄30'34 10.64285 AU
morning rise	9356 May 29 11:05	28°♄48'30	morning rise	9362 Aug 10 19:01	11°♄33'48
	9356 Jun 08 15:20	0°♄		9362 Sep 10 09:45	15°♄
retrograde	9356 Sep 08 18:51	6°♄10'13	retrograde	9362 Nov 23 14:56	19°♄11'36
opposition	9356 Nov 17 21:02	2°♄49'06 -2°12'42	opposition	9363 Feb 01 13:17	15°♄46'52 -1°35'53
min. Earth dist.	9356 Nov 17 17:16	2°♄49'49 8.77042 AU	min. Earth dist.	9363 Feb 01 06:07	15°♄48'15 8.62066 AU
	9357 Jan 01 08:55	30°♄		9363 Feb 11 17:31	15°♄
direct	9357 Jan 26 16:00	29°♄28'31	direct	9363 Apr 10 17:33	12°♄25'54
	9357 Feb 20 15:10	0°♄		9363 Jun 05 03:49	15°♄
evening set	9357 May 08 02:45	6°♄46'19	evening set	9363 Jul 20 03:04	19°♄47'58
conjunction	9357 May 24 19:47	8°♄47'23 -1°52'28	conjunction	9363 Aug 06 08:53	21°♄54'17 -1°07'51
minimum elong	9357 May 24 19:46	8°♄47'22 1°52'45	minimum elong	9363 Aug 06 08:55	21°♄54'18 1°08'04
max. Earth dist.	9357 May 25 00:46	8°♄48'53 10.76966 AU	max. Earth dist.	9363 Aug 06 17:55	21°♄57'04 10.59642 AU
morning rise	9357 Jun 10 13:56	10°♄48'45	morning rise	9363 Aug 23 18:16	24°♄01'42
retrograde	9357 Sep 21 09:29	18°♄12'12		9363 Oct 22 00:02	0°♄
opposition	9357 Nov 30 14:58	14°♄50'33 -2°22'09	retrograde	9363 Dec 06 20:15	1°♄42'47
min. Earth dist.	9357 Nov 30 09:38	14°♄51'33 8.76897 AU		9364 Jan 22 12:18	30°♄
direct	9358 Feb 08 04:34	11°♄30'16	opposition	9364 Feb 14 11:31	28°♄17'30 -1°09'57
evening set	9358 May 20 05:43	18°♄46'52	min. Earth dist.	9364 Feb 14 04:17	28°♄18'55 8.57234 AU
			direct	9364 Apr 22 09:09	24°♄56'02
conjunction	9358 Jun 05 23:11	20°♄48'02 -1°57'39		9364 Jul 11 18:01	0°♄
minimum elong	9358 Jun 05 23:10	20°♄48'02 1°57'58	evening set	9364 Aug 01 00:29	2°♄21'22
max. Earth dist.	9358 Jun 06 06:10	20°♄50'10 10.76282 AU			
morning rise	9358 Jun 22 18:14	22°♄49'43	conjunction	9364 Aug 18 09:49	4°♄29'14 -0°45'11
	9358 Sep 16 12:11	0°♄	minimum elong	9364 Aug 18 09:51	4°♄29'14 0°45'21
retrograde	9358 Oct 04 00:42	0°♄15'24	max. Earth dist.	9364 Aug 18 18:04	4°♄31'46 10.54741 AU
	9358 Oct 21 17:15	30°♄	morning rise	9364 Sep 04 22:42	6°♄38'12
opposition	9358 Dec 13 08:29	26°♄53'09 -2°25'24	retrograde	9364 Dec 19 03:54	14°♄22'25
min. Earth dist.	9358 Dec 13 01:39	26°♄54'26 8.75705 AU	opposition	9365 Feb 26 11:37	10°♄56'42 -0°40'21
direct	9359 Feb 20 16:04	23°♄33'01	min. Earth dist.	9365 Feb 26 05:20	10°♄57'57 8.52268 AU
	9359 May 25 10:27	0°♄	direct	9365 May 05 03:49	7°♄34'35
evening set	9359 Jun 01 09:27	0°♄49'12	evening set	9365 Aug 14 03:32	15°♄03'47
conjunction	9359 Jun 18 04:06	2°♄50'51 -1°57'40	conjunction	9365 Aug 31 16:10	17°♄13'12 -0°20'06
minimum elong	9359 Jun 18 04:06	2°♄50'51 1°57'59	minimum elong	9365 Aug 31 16:10	17°♄13'12 0°20'11
max. Earth dist.	9359 Jun 18 12:31	2°♄53'25 10.74577 AU	max. Earth dist.	9365 Aug 31 22:35	17°♄15'11 10.49813 AU
morning rise	9359 Jul 05 00:51	4°♄53'09	morning rise	9365 Sep 18 08:16	19°♄23'39
retrograde	9359 Oct 16 19:24	12°♄21'29	retrograde	9366 Jan 01 13:55	27°♄10'42
opposition	9359 Dec 26 02:23	8°♄58'37 -2°22'14	opposition	9366 Mar 11 13:38	23°♄44'40 -0°08'24
min. Earth dist.	9359 Dec 25 18:44	9°♄00'04 8.73503 AU	min. Earth dist.	9366 Mar 11 09:05	23°♄45'34 8.47395 AU
direct	9360 Mar 04 03:04	5°♄38'30	direct	9366 May 18 02:07	20°♄21'46
evening set	9360 Jun 12 14:56	12°♄55'00	asc. node	9366 Jun 16 05:44	21°♄07'03
			evening set	9366 Aug 27 12:27	27°♄55'19
conjunction	9360 Jun 29 11:22	14°♄57'26 -1°52'28		9366 Sep 13 08:11	0°♄
minimum elong	9360 Jun 29 11:23	14°♄57'26 1°52'46			
max. Earth dist.	9360 Jun 29 19:52	15°♄00'01 10.71920 AU	conjunction	9366 Sep 14 03:58	0°♄06'09 0°06'20
morning rise	9360 Jul 16 10:39	17°♄00'41	minimum elong	9366 Sep 14 03:57	0°♄06'08 0°06'19
retrograde	9360 Oct 28 16:17	24°♄31'59	behind sun begin	9366 Sep 13 21:07	0°♄04'02
opposition	9361 Jan 06 21:01	21°♄08'29 -2°12'42	behind sun end	9366 Sep 14 10:47	0°♄08'14
min. Earth dist.	9361 Jan 06 13:35	21°♄09'55 8.70392 AU	max. Earth dist.	9366 Sep 14 08:02	0°♄07'23 10.45068 AU
direct	9361 Mar 16 13:20	17°♄48'15	morning rise	9366 Oct 01 22:36	2°♄17'54
evening set	9361 Jun 24 23:07	25°♄05'51	retrograde	9367 Jan 15 01:57	10°♄07'21
			opposition	9367 Mar 24 17:27	6°♄41'05 0°24'20
conjunction	9361 Jul 11 22:08	27°♄09'20 -1°42'09	min. Earth dist.	9367 Mar 24 14:52	6°♄41'36 8.42820 AU
minimum elong	9361 Jul 11 22:10	27°♄09'21 1°42'27	direct	9367 May 31 04:01	3°♄17'21
max. Earth dist.	9361 Jul 12 06:28	27°♄11'53 10.68438 AU	evening set	9367 Sep 10 02:52	10°♄55'30

conjunction	9367 Sep 27 20:44	13° $\underline{\text{D}}$ 07'33	0°32'34			9373 Nov 24 18:15	0° $\text{Z}$	
minimum elong	9367 Sep 27 20:43	13° $\underline{\text{D}}$ 07'33	0°32'37	evening set		9373 Dec 01 15:34	0° $\text{Z}$ 50'32	
max. Earth dist.	9367 Sep 27 22:52	13° $\underline{\text{D}}$ 08'13	10.40692 AU					
morning rise	9367 Oct 15 17:04	15° $\underline{\text{D}}$ 20'22		conjunction		9373 Dec 19 08:59	3° $\text{Z}$ 03'55	1°56'47
retrograde	9368 Jan 28 15:24	23° $\underline{\text{D}}$ 11'43		minimum elong		9373 Dec 19 08:59	3° $\text{Z}$ 03'55	1°57'06
opposition	9368 Apr 05 23:11	19° $\underline{\text{D}}$ 45'20	0°56'09	max. Earth dist.		9373 Dec 19 00:10	3° $\text{Z}$ 01'08	10.32364 AU
min. Earth dist.	9368 Apr 05 22:06	19° $\underline{\text{D}}$ 45'33	8.38703 AU	morning rise		9374 Jan 06 00:04	5° $\text{Z}$ 16'35	
direct	9368 Jun 12 10:00	16° $\underline{\text{D}}$ 20'46		retrograde		9374 Apr 18 09:36	13° $\text{Z}$ 03'06	
evening set	9368 Sep 22 22:16	24° $\underline{\text{D}}$ 03'37		opposition		9374 Jun 24 13:37	9° $\text{Z}$ 39'04	2°22'13
				min. Earth dist.		9374 Jun 24 20:02	9° $\text{Z}$ 37'47	8.33717 AU
conjunction	9368 Oct 10 17:50	26° $\underline{\text{D}}$ 16'40	0°57'21	direct		9374 Sep 01 04:21	6° $\text{Z}$ 11'26	
minimum elong	9368 Oct 10 17:48	26° $\underline{\text{D}}$ 16'40	0°57'28	evening set		9374 Dec 15 16:00	14° $\text{Z}$ 08'35	
max. Earth dist.	9368 Oct 10 18:05	26° $\underline{\text{D}}$ 16'45	10.36829 AU					
morning rise	9368 Oct 28 14:57	28° $\underline{\text{D}}$ 30'15		conjunction		9375 Jan 02 07:50	16° $\text{Z}$ 21'11	1°50'56
	9368 Nov 10 01:22	0° $\text{M}$		minimum elong		9375 Jan 02 07:52	16° $\text{Z}$ 21'12	1°51'15
retrograde	9369 Feb 10 06:35	6° $\text{M}$ 22'59		max. Earth dist.		9375 Jan 01 23:19	16° $\text{Z}$ 18'30	10.35069 AU
opposition	9369 Apr 19 06:43	2° $\text{M}$ 56'39	1°25'19	morning rise		9375 Jan 19 20:40	18° $\text{Z}$ 32'55	
min. Earth dist.	9369 Apr 19 07:04	2° $\text{M}$ 56'35	8.35194 AU	retrograde		9375 May 01 18:29	26° $\text{Z}$ 15'42	
	9369 Jun 02 13:58	30° $\text{R}$ $\underline{\text{D}}$		opposition		9375 Jul 08 00:26	22° $\text{Z}$ 52'20	2°11'15
direct	9369 Jun 25 18:41	29° $\underline{\text{D}}$ 31'17		min. Earth dist.		9375 Jul 08 06:37	22° $\text{Z}$ 51'06	8.36920 AU
	9369 Jul 18 19:59	0° $\text{M}$		direct		9375 Sep 14 23:06	19° $\text{Z}$ 24'49	
evening set	9369 Oct 06 22:20	7° $\text{M}$ 18'48		evening set		9375 Dec 29 12:22	27° $\text{Z}$ 19'59	
conjunction	9369 Oct 24 18:45	9° $\text{M}$ 32'34	1°19'17	conjunction		9376 Jan 16 02:25	29° $\text{Z}$ 31'37	1°39'18
minimum elong	9369 Oct 24 18:43	9° $\text{M}$ 32'33	1°19'28	minimum elong		9376 Jan 16 02:27	29° $\text{Z}$ 31'38	1°39'35
max. Earth dist.	9369 Oct 24 16:52	9° $\text{M}$ 31'58	10.33677 AU	max. Earth dist.		9376 Jan 15 18:24	29° $\text{Z}$ 29'06	10.38773 AU
morning rise	9369 Nov 11 15:45	11° $\text{M}$ 46'35				9376 Jan 19 20:42	0° $\approx$	
	9369 Dec 09 07:12	15° $\text{M}$		morning rise		9376 Feb 02 12:58	1° $\approx$ 42'16	
retrograde	9370 Feb 24 00:12	19° $\text{M}$ 39'58		retrograde		9376 May 14 00:25	9° $\approx$ 20'55	
opposition	9370 May 02 15:52	16° $\text{M}$ 13'52	1°50'10	opposition		9376 Jul 20 09:47	5° $\approx$ 58'12	1°53'30
min. Earth dist.	9370 May 02 17:46	16° $\text{M}$ 13'29	8.32536 AU	min. Earth dist.		9376 Jul 20 16:10	5° $\approx$ 56'56	8.41014 AU
	9370 May 18 07:12	15° $\text{R}$ $\text{M}$		direct		9376 Sep 27 15:54	2° $\approx$ 30'59	
direct	9370 Jul 09 05:25	12° $\text{M}$ 47'46		evening set		9377 Jan 11 03:48	10° $\approx$ 23'08	
	9370 Aug 29 01:36	15° $\text{M}$						
evening set	9370 Oct 21 01:42	20° $\text{M}$ 39'28		conjunction		9377 Jan 28 15:46	12° $\approx$ 33'39	1°22'37
				minimum elong		9377 Jan 28 15:49	12° $\approx$ 33'39	1°22'52
conjunction	9370 Nov 07 22:08	22° $\text{M}$ 53'36	1°37'05	max. Earth dist.		9377 Jan 28 07:50	12° $\approx$ 31'10	10.43263 AU
minimum elong	9370 Nov 07 22:06	22° $\text{M}$ 53'35	1°37'20	morning rise		9377 Feb 15 00:07	14° $\approx$ 43'06	
max. Earth dist.	9370 Nov 07 18:00	22° $\text{M}$ 52'18	10.31507 AU			9377 Feb 17 07:28	15° $\approx$	
morning rise	9370 Nov 25 18:20	25° $\text{M}$ 07'45		retrograde		9377 May 27 03:53	22° $\approx$ 17'30	
	9371 Jan 08 15:42	0° $\text{Z}$		opposition		9377 Aug 02 17:37	18° $\approx$ 55'27	1°30'09
retrograde	9371 Mar 09 17:04	3° $\text{Z}$ 00'52		min. Earth dist.		9377 Aug 03 00:04	18° $\approx$ 54'11	8.45778 AU
	9371 May 10 23:09	30° $\text{R}$ $\text{M}$		direct		9377 Oct 11 05:44	15° $\approx$ 28'44	
opposition	9371 May 16 02:37	29° $\text{M}$ 35'09	2°09'11	evening set		9378 Jan 24 13:43	23° $\approx$ 17'01	
min. Earth dist.	9371 May 16 06:20	29° $\text{M}$ 34'24	8.30975 AU					
direct	9371 Jul 22 20:16	26° $\text{M}$ 08'24		conjunction		9378 Feb 10 23:21	25° $\approx$ 26'16	1°01'56
	9371 Sep 29 19:08	0° $\text{Z}$		minimum elong		9378 Feb 10 23:23	25° $\approx$ 26'17	1°02'07
evening set	9371 Nov 04 06:40	4° $\text{Z}$ 03'22		max. Earth dist.		9378 Feb 10 15:41	25° $\approx$ 23'53	10.48303 AU
				morning rise		9378 Feb 28 05:31	27° $\approx$ 34'29	
conjunction	9371 Nov 22 02:28	6° $\text{Z}$ 17'33	1°49'42			9378 Mar 20 21:40	0° $\text{H}$	
minimum elong	9371 Nov 22 02:26	6° $\text{Z}$ 17'32	1°49'59	retrograde		9378 Jun 09 02:03	5° $\text{H}$ 04'52	
max. Earth dist.	9371 Nov 21 20:01	6° $\text{Z}$ 15'30	10.30526 AU	opposition		9378 Aug 15 23:31	1° $\text{H}$ 43'24	1°02'34
morning rise	9371 Dec 09 21:22	8° $\text{Z}$ 31'29		min. Earth dist.		9378 Aug 16 05:23	1° $\text{H}$ 42'15	8.50971 AU
retrograde	9372 Mar 22 08:10	16° $\text{Z}$ 23'22				9378 Sep 08 03:42	30° $\text{R}$ $\approx$	
opposition	9372 May 28 14:15	12° $\text{Z}$ 58'08	2°21'15	direct		9378 Oct 24 18:22	28° $\approx$ 17'22	
min. Earth dist.	9372 May 28 19:37	12° $\text{Z}$ 57'03	8.30649 AU			9378 Dec 09 10:53	0° $\text{H}$	
direct	9372 Aug 04 14:15	9° $\text{Z}$ 30'53		evening set		9379 Feb 06 18:04	6° $\text{H}$ 01'17	
evening set	9372 Nov 17 11:54	17° $\text{Z}$ 27'58						
				conjunction		9379 Feb 24 01:18	8° $\text{H}$ 09'12	0°38'24
conjunction	9372 Dec 05 06:39	19° $\text{Z}$ 41'52	1°56'23	minimum elong		9379 Feb 24 01:19	8° $\text{H}$ 09'12	0°38'32
minimum elong	9372 Dec 05 06:39	19° $\text{Z}$ 41'52	1°56'42	max. Earth dist.		9379 Feb 23 18:31	8° $\text{H}$ 07'06	10.53643 AU
max. Earth dist.	9372 Dec 04 22:33	19° $\text{Z}$ 39'19	10.30817 AU	morning rise		9379 Mar 13 05:18	10° $\text{H}$ 16'08	
morning rise	9372 Dec 22 23:49	21° $\text{Z}$ 55'18		retrograde		9379 Jun 21 21:26	17° $\text{H}$ 42'58	
retrograde	9373 Apr 04 21:35	29° $\text{Z}$ 44'55		opposition		9379 Aug 29 03:10	14° $\text{H}$ 21'59	0°32'16
opposition	9373 Jun 11 02:01	26° $\text{Z}$ 20'16	2°25'40	min. Earth dist.		9379 Aug 29 07:29	14° $\text{H}$ 21'09	8.56340 AU
min. Earth dist.	9373 Jun 11 08:19	26° $\text{Z}$ 19'00	8.31584 AU	direct		9379 Nov 07 03:56	10° $\text{H}$ 56'47	
direct	9373 Aug 18 09:08	22° $\text{Z}$ 52'42		evening set		9380 Feb 19 17:01	18° $\text{H}$ 36'06	

conjunction	9380 Mar 07 21:52	20° $\text{K}$ 42'40	0°13'18	retrograde	9385 Sep 03 12:43	1° $\text{II}$ 02'14
minimum elong	9380 Mar 07 21:53	20° $\text{K}$ 42'40	0°13'22		9385 Oct 09 17:09	30° $\text{R}$ 8
behind sun begin	9380 Mar 07 17:47	20° $\text{K}$ 41'25		opposition	9385 Nov 12 12:34	27° $\text{B}$ 41'49 -2°06'17
behind sun end	9380 Mar 08 01:58	20° $\text{K}$ 43'56		min. Earth dist.	9385 Nov 12 07:40	27° $\text{B}$ 42'44 8.78988 AU
max. Earth dist.	9380 Mar 07 17:07	20° $\text{K}$ 41'13	10.59014 AU	direct	9386 Jan 21 10:23	24° $\text{B}$ 21'38
morning rise	9380 Mar 24 23:37	22° $\text{K}$ 48'20			9386 Apr 18 18:16	0° $\text{II}$
	9380 Jun 18 11:33	0° $\text{Y}$		evening set	9386 May 03 01:06	1° $\text{II}$ 39'14
retrograde	9380 Jul 03 16:33	0° $\text{Y}$ 12'12				
	9380 Jul 18 23:39	30° $\text{K}$ 8		conjunction	9386 May 19 18:19	3° $\text{II}$ 40'06 -1°48'20
opposition	9380 Sep 10 04:50	26° $\text{K}$ 51'38	0°00'49	minimum elong	9386 May 19 18:17	3° $\text{II}$ 40'05 1°48'37
min. Earth dist.	9380 Sep 10 07:23	26° $\text{K}$ 51'09	8.61611 AU	max. Earth dist.	9386 May 20 00:21	3° $\text{II}$ 41'56 10.79307 AU
desc. node	9380 Sep 19 22:19	26° $\text{K}$ 07'09		morning rise	9386 Jun 05 12:01	5° $\text{II}$ 41'08
direct	9380 Nov 19 08:46	23° $\text{K}$ 27'23		retrograde	9386 Sep 16 03:09	13° $\text{II}$ 02'44
	9381 Feb 22 17:48	0° $\text{Y}$		opposition	9386 Nov 25 06:08	9° $\text{II}$ 41'56 -2°18'21
evening set	9381 Mar 03 11:03	1° $\text{Y}$ 02'04		min. Earth dist.	9386 Nov 25 00:26	9° $\text{II}$ 43'00 8.79588 AU
				direct	9387 Feb 02 21:47	6° $\text{II}$ 22'11
conjunction	9381 Mar 20 13:24	3° $\text{Y}$ 07'20	-0°12'16	evening set	9387 May 15 03:45	13° $\text{II}$ 38'12
minimum elong	9381 Mar 20 13:23	3° $\text{Y}$ 07'19	0°12'16			
behind sun begin	9381 Mar 20 08:38	3° $\text{Y}$ 05'53		conjunction	9387 May 31 20:46	15° $\text{II}$ 38'59 -1°55'45
behind sun end	9381 Mar 20 18:08	3° $\text{Y}$ 08'46		minimum elong	9387 May 31 20:45	15° $\text{II}$ 38'59 1°56'04
max. Earth dist.	9381 Mar 20 10:51	3° $\text{Y}$ 06'34	10.64144 AU	max. Earth dist.	9387 Jun 01 03:05	15° $\text{II}$ 40'54 10.79306 AU
morning rise	9381 Apr 06 12:53	5° $\text{Y}$ 11'47		morning rise	9387 Jun 17 15:10	17° $\text{II}$ 40'10
retrograde	9381 Jul 16 08:27	12° $\text{Y}$ 33'23		retrograde	9387 Sep 28 16:37	25° $\text{II}$ 03'39
opposition	9381 Sep 23 04:38	9° $\text{Y}$ 13'09	-0°30'19	opposition	9387 Dec 07 23:15	21° $\text{II}$ 42'22 -2°24'24
min. Earth dist.	9381 Sep 23 05:48	9° $\text{Y}$ 12'55	8.66541 AU	min. Earth dist.	9387 Dec 07 17:28	21° $\text{II}$ 43'27 8.79008 AU
direct	9381 Dec 02 08:57	5° $\text{Y}$ 49'50		direct	9388 Feb 15 08:42	18° $\text{II}$ 22'50
evening set	9382 Mar 16 00:46	13° $\text{Y}$ 20'09		evening set	9388 May 26 06:38	25° $\text{II}$ 38'05
conjunction	9382 Apr 02 00:32	15° $\text{Y}$ 24'09	-0°36'57	conjunction	9388 Jun 12 00:20	27° $\text{II}$ 39'08 -1°58'07
minimum elong	9382 Apr 02 00:30	15° $\text{Y}$ 24'08	0°37'01	minimum elong	9388 Jun 12 00:20	27° $\text{II}$ 39'08 1°58'26
max. Earth dist.	9382 Apr 01 23:35	15° $\text{Y}$ 23'51	10.68808 AU	max. Earth dist.	9388 Jun 12 06:53	27° $\text{II}$ 41'07 10.78110 AU
morning rise	9382 Apr 18 22:04	17° $\text{Y}$ 27'31		morning rise	9388 Jun 28 20:11	29° $\text{II}$ 40'48
retrograde	9382 Jul 28 22:11	24° $\text{Y}$ 47'38			9388 Jul 01 13:07	0° $\text{B}$
opposition	9382 Oct 06 02:43	21° $\text{Y}$ 27'35	-0°59'44	retrograde	9388 Oct 10 08:40	7° $\text{B}$ 06'45
min. Earth dist.	9382 Oct 06 03:01	21° $\text{Y}$ 27'31	8.70920 AU	opposition	9388 Dec 19 16:33	3° $\text{B}$ 44'51 -2°24'09
direct	9382 Dec 15 07:31	18° $\text{Y}$ 05'10		min. Earth dist.	9388 Dec 19 10:33	3° $\text{B}$ 45'59 8.77198 AU
evening set	9383 Mar 28 10:37	25° $\text{Y}$ 31'30		direct	9389 Feb 26 20:34	0° $\text{B}$ 25'22
				evening set	9389 Jun 07 10:35	7° $\text{B}$ 40'38
conjunction	9383 Apr 14 08:00	27° $\text{Y}$ 34'22	-0°59'46	conjunction	9389 Jun 24 05:58	9° $\text{B}$ 42'21 -1°55'18
minimum elong	9383 Apr 14 07:58	27° $\text{Y}$ 34'21	0°59'54	minimum elong	9389 Jun 24 05:58	9° $\text{B}$ 42'21 1°55'36
max. Earth dist.	9383 Apr 14 08:00	27° $\text{Y}$ 34'22	10.72809 AU	max. Earth dist.	9389 Jun 24 13:25	9° $\text{B}$ 44'37 10.75700 AU
morning rise	9383 May 01 04:00	29° $\text{Y}$ 36'49		morning rise	9389 Jul 11 03:54	11° $\text{B}$ 44'50
	9383 May 04 09:58	0° $\text{B}$		retrograde	9389 Oct 23 03:29	19° $\text{B}$ 13'46
retrograde	9383 Aug 10 11:22	6° $\text{B}$ 56'13		opposition	9390 Jan 01 10:18	15° $\text{B}$ 51'10 -2°17'32
opposition	9383 Oct 18 23:12	3° $\text{B}$ 36'11	-1°26'12	min. Earth dist.	9390 Jan 01 03:33	15° $\text{B}$ 52'27 8.74198 AU
min. Earth dist.	9383 Oct 18 22:10	3° $\text{B}$ 36'23	8.74552 AU	direct	9390 Mar 11 07:14	12° $\text{B}$ 31'33
direct	9383 Dec 28 02:55	0° $\text{B}$ 14'38		evening set	9390 Jun 19 17:03	19° $\text{B}$ 47'43
evening set	9384 Apr 08 17:29	7° $\text{B}$ 37'28				
conjunction	9384 Apr 25 12:53	9° $\text{B}$ 39'24	-1°19'47	conjunction	9390 Jul 06 14:50	21° $\text{B}$ 50'26 -1°47'19
minimum elong	9384 Apr 25 12:51	9° $\text{B}$ 39'23	1°19'58	minimum elong	9390 Jul 06 14:51	21° $\text{B}$ 50'26 1°47'36
max. Earth dist.	9384 Apr 25 14:43	9° $\text{B}$ 39'57	10.75973 AU	max. Earth dist.	9390 Jul 06 22:57	21° $\text{B}$ 52'54 10.72189 AU
morning rise	9384 May 12 07:35	11° $\text{B}$ 41'07		morning rise	9390 Jul 23 15:30	23° $\text{B}$ 54'03
	9384 Jun 11 00:49	15° $\text{B}$			9390 Sep 23 21:53	0° $\text{B}$
retrograde	9384 Aug 21 23:10	19° $\text{B}$ 00'34		retrograde	9390 Nov 05 00:41	1° $\text{B}$ 26'15
opposition	9384 Oct 30 18:19	15° $\text{B}$ 40'25	-1°48'41		9390 Dec 17 23:21	30° $\text{R}$ 8
min. Earth dist.	9384 Oct 30 15:21	15° $\text{B}$ 40'59	8.77278 AU	opposition	9391 Jan 14 04:44	28° $\text{B}$ 02'54 -2°04'43
	9384 Nov 08 18:18	15° $\text{R}$ 8		min. Earth dist.	9391 Jan 13 21:46	28° $\text{B}$ 04'14 8.70191 AU
direct	9385 Jan 08 19:35	12° $\text{B}$ 19'37		direct	9391 Mar 23 18:37	24° $\text{B}$ 42'57
	9385 Mar 07 19:52	15° $\text{B}$			9391 Jun 14 17:33	0° $\text{B}$
evening set	9385 Apr 20 22:03	19° $\text{B}$ 39'32		evening set	9391 Jul 02 02:46	2° $\text{B}$ 00'48
conjunction	9385 May 07 16:05	21° $\text{B}$ 40'47	-1°36'11	conjunction	9391 Jul 19 03:25	4° $\text{B}$ 04'48 -1°34'26
minimum elong	9385 May 07 16:03	21° $\text{B}$ 40'46	1°36'26	minimum elong	9391 Jul 19 03:27	4° $\text{B}$ 04'48 1°34'42
max. Earth dist.	9385 May 07 20:20	21° $\text{B}$ 42'04	10.78171 AU	max. Earth dist.	9391 Jul 19 11:05	4° $\text{B}$ 07'08 10.67801 AU
morning rise	9385 May 24 09:55	23° $\text{B}$ 42'00		morning rise	9391 Aug 05 07:26	6° $\text{B}$ 09'48
	9385 Jul 30 02:19	0° $\text{II}$		retrograde	9391 Nov 18 01:34	13° $\text{B}$ 45'25



opposition	9392 Jan 27 00:35	10°♏21'19	-1°46'05		9398 Jan 10 02:43	0°♏	
min. Earth dist.	9392 Jan 26 18:12	10°♏22'33	8.65420 AU	retrograde	9398 Feb 04 08:48	0°♏33'37	
direct	9392 Apr 04 06:54	7°♏00'49			9398 Mar 01 16:20	30°♏♂	
evening set	9392 Jul 13 16:25	14°♏21'05		opposition	9398 Apr 13 12:10	27°♂06'40	1°12'20
	9392 Jul 19 01:19	15°♏		min. Earth dist.	9398 Apr 13 12:27	27°♂06'37	8.34937 AU
				direct	9398 Jun 19 23:00	23°♂41'04	
conjunction	9392 Jul 30 20:21	16°♏26'32	-1°17'04		9398 Sep 18 18:57	0°♏	
minimum elong	9392 Jul 30 20:23	16°♏26'33	1°17'19	evening set	9398 Sep 30 19:41	1°♏27'06	
max. Earth dist.	9392 Jul 31 03:01	16°♏28'35	10.62781 AU				
morning rise	9392 Aug 17 04:05	18°♏33'06		conjunction	9398 Oct 18 15:41	3°♏40'47	1°09'36
retrograde	9392 Nov 30 03:44	26°♏12'12		minimum elong	9398 Oct 18 15:39	3°♏40'46	1°09'46
opposition	9393 Feb 07 21:59	22°♏47'20	-1°22'18	max. Earth dist.	9398 Oct 18 13:49	3°♏40'11	10.33223 AU
min. Earth dist.	9393 Feb 07 16:38	22°♏48'23	8.60140 AU	morning rise	9398 Nov 05 13:02	5°♏54'52	
direct	9393 Apr 16 21:58	19°♏26'09		retrograde	9399 Feb 18 01:09	13°♏48'43	
evening set	9393 Jul 26 10:58	26°♏49'33		opposition	9399 Apr 26 20:50	10°♏21'54	1°39'23
				min. Earth dist.	9399 Apr 26 22:36	10°♏21'33	8.31873 AU
conjunction	9393 Aug 12 18:30	28°♏56'37	-0°55'55	direct	9399 Jul 03 09:25	6°♏55'31	
minimum elong	9393 Aug 12 18:33	28°♏56'37	0°56'07	evening set	9399 Oct 14 21:39	14°♏45'58	
max. Earth dist.	9393 Aug 13 00:34	28°♏58'29	10.57372 AU		9399 Oct 16 19:02	15°♏	
	9393 Aug 21 08:41	0°♏					
morning rise	9393 Aug 30 05:54	1°♏04'48		conjunction	9399 Nov 01 18:08	17°♏00'10	1°29'28
retrograde	9393 Dec 13 08:08	8°♏47'18		minimum elong	9399 Nov 01 18:06	17°♏00'09	1°29'41
opposition	9394 Feb 20 20:50	5°♏21'44	-0°54'19	max. Earth dist.	9399 Nov 01 14:45	16°♏59'06	10.30677 AU
min. Earth dist.	9394 Feb 20 16:11	5°♏22'39	8.54602 AU	morning rise	9399 Nov 19 15:00	19°♏14'31	
direct	9394 Apr 29 16:43	1°♏59'44		retrograde	9400 Mar 03 17:16	27°♏08'31	
evening set	9394 Aug 08 10:55	9°♏26'56		opposition	9400 May 10 07:03	23°♏42'01	2°01'16
				min. Earth dist.	9400 May 10 09:42	23°♏41'29	8.29955 AU
conjunction	9394 Aug 25 22:06	11°♏35'39	-0°31'52	direct	9400 Jul 16 23:55	20°♏15'01	
minimum elong	9394 Aug 25 22:07	11°♏35'40	0°32'00	evening set	9400 Oct 29 02:08	28°♏09'09	
max. Earth dist.	9394 Aug 26 03:46	11°♏37'24	10.51817 AU		9400 Nov 12 20:02	0°♏♂	
morning rise	9394 Sep 12 12:46	13°♏45'26					
retrograde	9394 Dec 26 16:52	21°♏31'10		conjunction	9400 Nov 15 22:29	0°♏23'32	1°44'35
opposition	9395 Mar 05 21:35	18°♏04'59	-0°23'19	minimum elong	9400 Nov 15 22:26	0°♏23'31	1°44'51
min. Earth dist.	9395 Mar 05 17:24	18°♏05'49	8.49052 AU	max. Earth dist.	9400 Nov 15 18:08	0°♏22'09	10.29345 AU
direct	9395 May 12 13:15	14°♏42'08		morning rise	9400 Dec 03 18:10	2°♏37'47	
evening set	9395 Aug 21 16:37	22°♏13'39		retrograde	9401 Mar 17 09:34	10°♏30'58	
				opposition	9401 May 23 18:27	7°♏05'00	2°16'38
conjunction	9395 Sep 08 06:59	24°♏23'56	-0°06'01	min. Earth dist.	9401 May 23 21:46	7°♏04'19	8.29289 AU
minimum elong	9395 Sep 08 06:59	24°♏23'55	0°06'04	direct	9401 Jul 30 16:17	3°♏37'35	
behind sun begin	9395 Sep 08 00:07	24°♏21'49		evening set	9401 Nov 12 07:47	11°♏34'20	
behind sun end	9395 Sep 08 13:50	24°♏26'02					
max. Earth dist.	9395 Sep 08 11:47	24°♏25'23	10.46365 AU	conjunction	9401 Nov 30 03:18	13°♏48'35	1°54'02
morning rise	9395 Sep 26 00:24	26°♏35'10		minimum elong	9401 Nov 30 03:17	13°♏48'35	1°54'21
	9395 Oct 25 21:13	0°♏		max. Earth dist.	9401 Nov 29 21:51	13°♏46'52	10.29306 AU
asc. node	9395 Dec 02 22:03	3°♏13'20		morning rise	9401 Dec 17 21:15	16°♏02'26	
retrograde	9396 Jan 09 05:01	4°♏23'49		retrograde	9402 Mar 31 01:40	23°♏53'48	
opposition	9396 Mar 18 00:24	0°♏57'11	0°09'14	opposition	9402 Jun 06 06:31	20°♏28'32	2°24'35
min. Earth dist.	9396 Mar 17 21:02	0°♏57'52	8.43753 AU	min. Earth dist.	9402 Jun 06 10:57	20°♏27'38	8.29923 AU
	9396 Mar 30 04:07	30°♏♂		direct	9402 Aug 13 09:20	17°♏00'53	
direct	9396 May 24 12:08	27°♏33'25		evening set	9402 Nov 26 12:46	24°♏59'02	
	9396 Jul 17 02:24	0°♏					
evening set	9396 Sep 03 04:16	5°♏09'41		conjunction	9402 Dec 14 06:59	27°♏12'51	1°57'19
				minimum elong	9402 Dec 14 06:59	27°♏12'51	1°57'39
conjunction	9396 Sep 20 21:14	7°♏21'20	0°20'32	max. Earth dist.	9402 Dec 14 00:16	27°♏10'43	10.30582 AU
minimum elong	9396 Sep 20 21:13	7°♏21'20	0°20'33	morning rise	9402 Dec 31 22:58	29°♏26'02	
max. Earth dist.	9396 Sep 21 00:09	7°♏22'14	10.41285 AU		9403 Jan 05 13:25	0°♏♂	
morning rise	9396 Oct 08 16:49	9°♏33'50		retrograde	9403 Apr 13 16:15	7°♏14'38	
retrograde	9397 Jan 21 18:06	17°♏24'54		opposition	9403 Jun 19 18:50	3°♏50'12	2°24'41
opposition	9397 Mar 31 05:15	13°♏58'00	0°41'42	min. Earth dist.	9403 Jun 20 00:23	3°♏49'05	8.31837 AU
min. Earth dist.	9397 Mar 31 03:32	13°♏58'21	8.38968 AU	direct	9403 Aug 27 04:11	0°♏22'32	
direct	9397 Jun 06 15:40	10°♏33'18		evening set	9403 Dec 10 15:25	8°♏20'40	
evening set	9397 Sep 16 21:33	18°♏14'30					
				conjunction	9403 Dec 28 08:02	10°♏33'47	1°54'15
conjunction	9397 Oct 04 16:24	20°♏27'19	0°46'10	minimum elong	9403 Dec 28 08:03	10°♏33'48	1°54'35
minimum elong	9397 Oct 04 16:23	20°♏27'19	0°46'16	max. Earth dist.	9403 Dec 28 00:12	10°♏31'19	10.33107 AU
max. Earth dist.	9397 Oct 04 16:41	20°♏27'24	10.36829 AU	morning rise	9404 Jan 14 21:59	12°♏46'07	
morning rise	9397 Oct 22 13:21	22°♏40'47		retrograde	9404 Apr 26 02:25	20°♏31'12	

opposition	9404 Jul 02 06:40	17° $\text{♄}$ 07'37	2°17'01	max. Earth dist.	9410 Mar 16 02:35	27° $\text{♄}$ 51'19	10.61978 AU
min. Earth dist.	9404 Jul 02 13:02	17° $\text{♄}$ 06'21	8.34918 AU	morning rise	9410 Apr 02 08:41	29° $\text{♄}$ 58'03	
direct	9404 Sep 09 00:33	13° $\text{♄}$ 40'08			9410 Apr 02 15:08	0° $\text{♄}$	
evening set	9404 Dec 23 14:39	21° $\text{♄}$ 36'54		retrograde	9410 Jul 12 02:59	7° $\text{♄}$ 21'03	
				opposition	9410 Sep 18 19:41	4° $\text{♄}$ 01'01	-0°16'40
conjunction	9405 Jan 10 05:28	23° $\text{♄}$ 49'06	1°45'08	min. Earth dist.	9410 Sep 18 23:15	4° $\text{♄}$ 00'20	8.64261 AU
minimum elong	9405 Jan 10 05:30	23° $\text{♄}$ 49'06	1°45'26	direct	9410 Nov 27 22:56	0° $\text{♄}$ 37'31	
max. Earth dist.	9405 Jan 09 21:00	23° $\text{♄}$ 46'26	10.36731 AU	evening set	9411 Mar 11 21:01	8° $\text{♄}$ 10'24	
morning rise	9405 Jan 27 17:16	26° $\text{♄}$ 00'22					
	9405 Mar 03 18:38	0° $\text{♄}$		conjunction	9411 Mar 28 21:55	10° $\text{♄}$ 15'03	-0°26'13
retrograde	9405 May 09 09:45	3° $\text{♄}$ 41'23		minimum elong	9411 Mar 28 21:54	10° $\text{♄}$ 15'03	0°26'14
opposition	9405 Jul 15 17:21	0° $\text{♄}$ 18'38	2°02'10	max. Earth dist.	9411 Mar 28 18:11	10° $\text{♄}$ 13'55	10.66411 AU
min. Earth dist.	9405 Jul 15 23:35	0° $\text{♄}$ 17'24	8.38988 AU	morning rise	9411 Apr 14 20:31	12° $\text{♄}$ 19'03	
	9405 Jul 19 15:27	30° $\text{♄}$		retrograde	9411 Jul 24 18:36	19° $\text{♄}$ 40'25	
direct	9405 Sep 22 19:36	26° $\text{♄}$ 51'33		opposition	9411 Oct 01 19:04	16° $\text{♄}$ 20'29	-0°47'03
	9405 Nov 24 07:13	0° $\text{♄}$		min. Earth dist.	9411 Oct 01 20:44	16° $\text{♄}$ 20'10	8.68403 AU
evening set	9406 Jan 06 09:11	4° $\text{♄}$ 45'40		direct	9411 Dec 11 00:42	12° $\text{♄}$ 57'47	
				evening set	9412 Mar 23 09:23	20° $\text{♄}$ 26'39	
conjunction	9406 Jan 23 22:04	6° $\text{♄}$ 56'45	1°30'36	conjunction	9412 Apr 09 08:00	22° $\text{♄}$ 30'12	-0°50'02
minimum elong	9406 Jan 23 22:07	6° $\text{♄}$ 56'46	1°30'52	minimum elong	9412 Apr 09 07:58	22° $\text{♄}$ 30'12	0°50'08
max. Earth dist.	9406 Jan 23 14:11	6° $\text{♄}$ 54'17	10.41243 AU	max. Earth dist.	9412 Apr 09 06:40	22° $\text{♄}$ 29'48	10.70200 AU
morning rise	9406 Feb 10 07:36	9° $\text{♄}$ 06'50		morning rise	9412 Apr 26 04:40	24° $\text{♄}$ 33'13	
	9406 Apr 08 03:09	15° $\text{♄}$			9412 Jun 18 12:15	0° $\text{♄}$	
retrograde	9406 May 22 15:04	16° $\text{♄}$ 43'34		retrograde	9412 Aug 05 10:06	1° $\text{♄}$ 53'42	
	9406 Jul 07 08:00	15° $\text{♄}$			9412 Sep 24 01:47	30° $\text{♄}$	
opposition	9406 Jul 29 02:36	13° $\text{♄}$ 21'33	1°41'09	opposition	9412 Oct 13 17:04	28° $\text{♄}$ 33'40	-1°15'03
min. Earth dist.	9406 Jul 29 08:03	13° $\text{♄}$ 20'29	8.43808 AU	min. Earth dist.	9412 Oct 13 16:56	28° $\text{♄}$ 33'42	8.71840 AU
direct	9406 Oct 06 11:49	9° $\text{♄}$ 55'01		direct	9412 Dec 22 21:17	25° $\text{♄}$ 11'42	
	9406 Dec 27 07:34	15° $\text{♄}$			9413 Mar 12 19:50	0° $\text{♄}$	
evening set	9407 Jan 19 22:10	17° $\text{♄}$ 45'26		evening set	9413 Apr 04 18:18	2° $\text{♄}$ 36'57	
conjunction	9407 Feb 06 09:00	19° $\text{♄}$ 55'18	1°11'34	conjunction	9413 Apr 21 14:45	4° $\text{♄}$ 39'31	-1°11'27
minimum elong	9407 Feb 06 09:02	19° $\text{♄}$ 55'19	1°11'47	minimum elong	9413 Apr 21 14:43	4° $\text{♄}$ 39'30	1°11'36
max. Earth dist.	9407 Feb 06 02:16	19° $\text{♄}$ 53'12	10.46366 AU	max. Earth dist.	9413 Apr 21 15:19	4° $\text{♄}$ 39'41	10.73207 AU
morning rise	9407 Feb 23 16:12	22° $\text{♄}$ 04'07		morning rise	9413 May 08 09:55	6° $\text{♄}$ 41'46	
retrograde	9407 Jun 04 16:44	29° $\text{♄}$ 36'35		retrograde	9413 Aug 17 23:22	14° $\text{♄}$ 02'04	
opposition	9407 Aug 11 09:56	26° $\text{♄}$ 15'14	1°15'16	opposition	9413 Oct 26 13:44	10° $\text{♄}$ 41'48	-1°39'29
min. Earth dist.	9407 Aug 11 14:50	26° $\text{♄}$ 14'17	8.49077 AU	min. Earth dist.	9413 Oct 26 12:31	10° $\text{♄}$ 42'02	8.74450 AU
direct	9407 Oct 20 01:28	22° $\text{♄}$ 49'21		direct	9414 Jan 04 14:51	7° $\text{♄}$ 20'25	
	9408 Jan 28 08:18	0° $\text{♄}$		evening set	9414 Apr 17 00:38	14° $\text{♄}$ 42'35	
evening set	9408 Feb 02 05:44	0° $\text{♄}$ 35'27			9414 Apr 19 10:53	15° $\text{♄}$	
conjunction	9408 Feb 19 14:17	2° $\text{♄}$ 44'01	0°49'09	conjunction	9414 May 03 19:16	16° $\text{♄}$ 44'23	-1°29'34
minimum elong	9408 Feb 19 14:18	2° $\text{♄}$ 44'01	0°49'18	minimum elong	9414 May 03 19:14	16° $\text{♄}$ 44'22	1°29'47
max. Earth dist.	9408 Feb 19 08:16	2° $\text{♄}$ 42'09	10.51754 AU	max. Earth dist.	9414 May 03 20:58	16° $\text{♄}$ 44'54	10.75334 AU
morning rise	9408 Mar 07 19:10	4° $\text{♄}$ 51'31		morning rise	9414 May 20 13:33	18° $\text{♄}$ 46'05	
retrograde	9408 Jun 16 14:58	12° $\text{♄}$ 20'05		retrograde	9414 Aug 30 12:06	26° $\text{♄}$ 06'56	
opposition	9408 Aug 23 15:03	8° $\text{♄}$ 59'18	0°45'59	opposition	9414 Nov 08 09:07	22° $\text{♄}$ 46'17	-1°59'23
min. Earth dist.	9408 Aug 23 20:00	8° $\text{♄}$ 58'21	8.54434 AU	min. Earth dist.	9414 Nov 08 06:52	22° $\text{♄}$ 46'43	8.76139 AU
direct	9408 Nov 01 12:01	5° $\text{♄}$ 34'09		direct	9415 Jan 17 07:58	19° $\text{♄}$ 25'21	
evening set	9409 Feb 14 07:51	13° $\text{♄}$ 15'45		evening set	9415 Apr 29 04:59	26° $\text{♄}$ 45'04	
conjunction	9409 Mar 03 13:50	15° $\text{♄}$ 22'58	0°24'34	conjunction	9415 May 15 22:30	28° $\text{♄}$ 46'23	-1°43'41
minimum elong	9409 Mar 03 13:51	15° $\text{♄}$ 22'58	0°24'40	minimum elong	9415 May 15 22:29	28° $\text{♄}$ 46'22	1°43'57
max. Earth dist.	9409 Mar 03 07:52	15° $\text{♄}$ 21'07	10.57044 AU	max. Earth dist.	9415 May 16 01:36	28° $\text{♄}$ 47'19	10.76498 AU
morning rise	9409 Mar 20 16:32	17° $\text{♄}$ 29'13			9415 May 26 01:08	0° $\text{♄}$	
retrograde	9409 Jun 29 10:49	24° $\text{♄}$ 54'35		morning rise	9415 Jun 01 16:29	0° $\text{♄}$ 47'48	
opposition	9409 Sep 05 18:20	21° $\text{♄}$ 34'16	0°14'50	retrograde	9415 Sep 12 01:32	8° $\text{♄}$ 09'50	
min. Earth dist.	9409 Sep 05 23:08	21° $\text{♄}$ 33'20	8.59559 AU	opposition	9415 Nov 21 03:38	4° $\text{♄}$ 48'42	-2°14'00
direct	9409 Nov 14 18:49	18° $\text{♄}$ 09'56		min. Earth dist.	9415 Nov 20 23:50	4° $\text{♄}$ 49'25	8.76827 AU
evening set	9410 Feb 27 04:42	25° $\text{♄}$ 47'04		direct	9416 Jan 29 22:08	1° $\text{♄}$ 28'08	
desc. node	9410 Mar 02 00:42	26° $\text{♄}$ 07'39		evening set	9416 May 10 08:16	8° $\text{♄}$ 46'02	
conjunction	9410 Mar 16 08:04	27° $\text{♄}$ 52'59	-0°01'00	conjunction	9416 May 27 01:27	10° $\text{♄}$ 47'09	-1°53'13
minimum elong	9410 Mar 16 08:03	27° $\text{♄}$ 52'58	0°00'57	minimum elong	9416 May 27 01:26	10° $\text{♄}$ 47'09	1°53'31
behind sun begin	9410 Mar 16 00:58	27° $\text{♄}$ 50'49		max. Earth dist.	9416 May 27 06:53	10° $\text{♄}$ 48'49	10.76643 AU
behind sun end	9410 Mar 16 15:08	27° $\text{♄}$ 55'08					

morning rise	9416 Jun 12 19:37	12° $\Pi$ 48'36	morning rise	9422 Aug 26 03:37	26° $\Omega$ 08'02
retrograde	9416 Sep 23 15:46	20° $\Pi$ 12'28		9422 Sep 29 20:32	0° $\mathbb{N}$
opposition	9416 Dec 02 21:40	16° $\Pi$ 50'43 -2°22'43	retrograde	9422 Dec 09 06:02	3° $\mathbb{N}$ 49'44
min. Earth dist.	9416 Dec 02 15:54	16° $\Pi$ 51'49 8.76474 AU	opposition	9423 Feb 16 20:29	0° $\mathbb{N}$ 24'17 -1°06'20
direct	9417 Feb 10 10:50	13° $\Pi$ 30'26	min. Earth dist.	9423 Feb 16 13:23	0° $\mathbb{N}$ 25'41 8.56101 AU
evening set	9417 May 22 11:32	20° $\Pi$ 47'15		9423 Feb 22 01:11	30° $\mathbb{R}$ $\Omega$
			direct	9423 Apr 25 17:23	27° $\Omega$ 02'37
conjunction	9417 Jun 08 05:09	22° $\Pi$ 48'32 -1°57'47		9423 Jun 24 08:18	0° $\mathbb{N}$
minimum elong	9417 Jun 08 05:08	22° $\Pi$ 48'31 1°58'06	evening set	9423 Aug 04 09:56	4° $\mathbb{N}$ 28'40
max. Earth dist.	9417 Jun 08 12:21	22° $\Pi$ 50'43 10.75761 AU			
morning rise	9417 Jun 25 00:17	24° $\Pi$ 50'18	conjunction	9423 Aug 21 19:32	6° $\mathbb{N}$ 36'47 -0°42'04
	9417 Aug 13 21:16	0° $\mathbb{S}$	minimum elong	9423 Aug 21 19:34	6° $\mathbb{N}$ 36'47 0°42'14
retrograde	9417 Oct 06 09:21	2° $\mathbb{S}$ 16'29	max. Earth dist.	9423 Aug 22 02:57	6° $\mathbb{N}$ 39'04 10.53612 AU
	9417 Nov 30 21:51	30° $\mathbb{R}$ $\Pi$	morning rise	9423 Sep 08 08:50	8° $\mathbb{N}$ 45'59
opposition	9417 Dec 15 15:37	28° $\Pi$ 54'07 -2°25'11	retrograde	9423 Dec 22 14:17	16° $\mathbb{N}$ 30'49
min. Earth dist.	9417 Dec 15 08:48	28° $\Pi$ 55'25 8.75094 AU	opposition	9424 Feb 29 21:08	13° $\mathbb{N}$ 04'58 -0°36'21
direct	9418 Feb 22 22:28	25° $\Pi$ 33'57	min. Earth dist.	9424 Feb 29 15:27	13° $\mathbb{N}$ 06'05 8.51148 AU
	9418 May 09 12:58	0° $\mathbb{S}$	direct	9424 May 07 12:43	9° $\mathbb{N}$ 42'39
evening set	9418 Jun 03 15:39	2° $\mathbb{S}$ 50'24	evening set	9424 Aug 16 13:41	17° $\mathbb{N}$ 12'36
conjunction	9418 Jun 20 10:24	4° $\mathbb{S}$ 52'11 -1°57'10	conjunction	9424 Sep 03 02:35	19° $\mathbb{N}$ 22'15 -0°16'46
minimum elong	9418 Jun 20 10:25	4° $\mathbb{S}$ 52'11 1°57'29	minimum elong	9424 Sep 03 02:36	19° $\mathbb{N}$ 22'15 0°16'52
max. Earth dist.	9418 Jun 20 18:09	4° $\mathbb{S}$ 54'32 10.73885 AU	max. Earth dist.	9424 Sep 03 08:29	19° $\mathbb{N}$ 24'04 10.48728 AU
morning rise	9418 Jul 07 07:28	6° $\mathbb{S}$ 54'38	morning rise	9424 Sep 20 19:03	21° $\mathbb{N}$ 32'57
retrograde	9418 Oct 19 03:30	14° $\mathbb{S}$ 23'29	retrograde	9425 Jan 04 00:48	29° $\mathbb{N}$ 20'35
opposition	9418 Dec 28 09:53	11° $\mathbb{S}$ 00'30 -2°21'14	opposition	9425 Mar 13 23:41	25° $\mathbb{N}$ 54'26 -0°04'14
min. Earth dist.	9418 Dec 28 02:57	11° $\mathbb{S}$ 01'50 8.72732 AU	min. Earth dist.	9425 Mar 13 19:27	25° $\mathbb{N}$ 55'16 8.46354 AU
direct	9419 Mar 07 08:33	7° $\mathbb{S}$ 40'17	asc. node	9425 May 01 13:21	22° $\mathbb{N}$ 50'36
evening set	9419 Jun 15 21:39	14° $\mathbb{S}$ 57'11	direct	9425 May 20 11:43	22° $\mathbb{N}$ 31'23
			evening set	9425 Aug 29 23:23	0° $\mathbb{S}$ 05'43
conjunction	9419 Jul 02 18:18	16° $\mathbb{S}$ 59'45 -1°51'19		9425 Aug 29 04:36	0° $\mathbb{S}$
minimum elong	9419 Jul 02 18:19	16° $\mathbb{S}$ 59'46 1°51'37			
max. Earth dist.	9419 Jul 03 02:00	17° $\mathbb{S}$ 02'07 10.71082 AU	conjunction	9425 Sep 16 15:14	2° $\mathbb{S}$ 16'45 0°09'42
morning rise	9419 Jul 19 17:58	19° $\mathbb{S}$ 03'12	minimum elong	9425 Sep 16 15:13	2° $\mathbb{S}$ 16'45 0°09'41
retrograde	9419 Oct 31 22:46	26° $\mathbb{S}$ 35'04	behind sun begin	9425 Sep 16 09:18	2° $\mathbb{S}$ 14'55
opposition	9420 Jan 10 04:45	23° $\mathbb{S}$ 11'25 -2°10'56	behind sun end	9425 Sep 16 21:09	2° $\mathbb{S}$ 18'34
min. Earth dist.	9420 Jan 09 21:53	23° $\mathbb{S}$ 12'44 8.69485 AU	max. Earth dist.	9425 Sep 16 19:43	2° $\mathbb{S}$ 18'08 10.44093 AU
direct	9420 Mar 18 21:06	19° $\mathbb{S}$ 51'01	morning rise	9425 Oct 04 10:05	4° $\mathbb{S}$ 28'43
evening set	9420 Jun 27 06:20	27° $\mathbb{S}$ 09'07	retrograde	9426 Jan 17 12:20	12° $\mathbb{S}$ 18'43
			opposition	9426 Mar 27 03:54	8° $\mathbb{S}$ 52'22 0°28'28
conjunction	9420 Jul 14 05:44	29° $\mathbb{S}$ 12'49 -1°40'25	min. Earth dist.	9426 Mar 27 00:55	8° $\mathbb{S}$ 52'58 8.41931 AU
minimum elong	9420 Jul 14 05:46	29° $\mathbb{S}$ 12'50 1°40'42	direct	9426 Jun 02 15:14	5° $\mathbb{S}$ 28'32
max. Earth dist.	9420 Jul 14 14:12	29° $\mathbb{S}$ 15'25 10.67476 AU	evening set	9426 Sep 12 14:40	13° $\mathbb{S}$ 07'27
	9420 Jul 20 16:10	0° $\Omega$			
morning rise	9420 Jul 31 08:29	1° $\Omega$ 17'30	conjunction	9426 Sep 30 08:49	15° $\mathbb{S}$ 19'41 0°35'48
retrograde	9420 Nov 12 22:03	8° $\Omega$ 52'36	minimum elong	9426 Sep 30 08:47	15° $\mathbb{S}$ 19'40 0°35'52
opposition	9421 Jan 22 00:39	5° $\Omega$ 28'18 -1°54'35	max. Earth dist.	9426 Sep 30 11:58	15° $\mathbb{S}$ 20'40 10.39905 AU
min. Earth dist.	9421 Jan 21 17:17	5° $\Omega$ 29'43 8.65505 AU	morning rise	9426 Oct 18 05:09	17° $\mathbb{S}$ 32'38
direct	9421 Mar 31 10:55	2° $\Omega$ 07'36	retrograde	9427 Jan 31 02:59	25° $\mathbb{S}$ 24'25
evening set	9421 Jul 09 18:37	9° $\Omega$ 27'35	opposition	9427 Apr 09 10:03	21° $\mathbb{S}$ 58'00 1°00'01
			min. Earth dist.	9427 Apr 09 08:09	21° $\mathbb{S}$ 58'23 8.38047 AU
conjunction	9421 Jul 26 21:20	11° $\Omega$ 32'39 -1°24'48	direct	9427 Jun 15 20:48	18° $\mathbb{S}$ 33'22
minimum elong	9421 Jul 26 21:22	11° $\Omega$ 32'40 1°25'03	evening set	9427 Sep 26 10:46	26° $\mathbb{S}$ 16'50
max. Earth dist.	9421 Jul 27 06:32	11° $\Omega$ 35'28 10.63226 AU			
morning rise	9421 Aug 13 03:30	13° $\Omega$ 38'46	conjunction	9427 Oct 14 06:24	28° $\mathbb{S}$ 29'59 1°00'17
	9421 Aug 24 15:29	15° $\Omega$	minimum elong	9427 Oct 14 06:22	28° $\mathbb{S}$ 29'59 1°00'25
retrograde	9421 Nov 26 00:59	21° $\Omega$ 17'12	max. Earth dist.	9427 Oct 14 07:23	28° $\mathbb{S}$ 30'18 10.36310 AU
opposition	9422 Feb 03 21:50	17° $\Omega$ 52'16 -1°32'47		9427 Oct 26 06:09	0° $\mathbb{M}$
min. Earth dist.	9422 Feb 03 14:11	17° $\Omega$ 53'45 8.60970 AU	morning rise	9427 Nov 01 03:24	0° $\mathbb{M}$ 43'38
	9422 Mar 20 10:44	15° $\mathbb{R}$ $\Omega$	retrograde	9428 Feb 13 19:50	8° $\mathbb{M}$ 36'35
direct	9422 Apr 13 00:44	14° $\Omega$ 31'09	opposition	9428 Apr 21 17:56	5° $\mathbb{M}$ 10'15 1°28'41
	9422 May 06 09:08	15° $\Omega$	min. Earth dist.	9428 Apr 21 17:54	5° $\mathbb{M}$ 10'15 8.34826 AU
evening set	9422 Jul 22 11:42	21° $\Omega$ 53'49	direct	9428 Jun 28 04:35	1° $\mathbb{M}$ 44'49
			evening set	9428 Oct 09 11:13	9° $\mathbb{M}$ 32'46
conjunction	9422 Aug 08 17:53	24° $\Omega$ 00'23 -1°05'05			
minimum elong	9422 Aug 08 17:55	24° $\Omega$ 00'23 1°05'18	conjunction	9428 Oct 27 07:31	11° $\mathbb{M}$ 46'34 1°21'43
max. Earth dist.	9422 Aug 09 02:48	24° $\Omega$ 03'07 10.58526 AU	minimum elong	9428 Oct 27 07:28	11° $\mathbb{M}$ 46'33 1°21'55

max. Earth dist.	9428 Oct 27 05:34	11° $\mathbb{M}$ 45'57	10.33441 AU	minimum elong	9435 Jan 18 13:48	1° $\approx$ 43'39	1°37'35
morning rise	9428 Nov 14 04:26	14° $\mathbb{M}$ 00'36		max. Earth dist.	9435 Jan 18 05:27	1° $\approx$ 41'02	10.39460 AU
	9428 Nov 22 07:42	15° $\mathbb{M}$		morning rise	9435 Feb 05 00:07	3° $\approx$ 54'08	
retrograde	9429 Feb 26 12:26	21° $\mathbb{M}$ 54'00		retrograde	9435 May 17 11:32	11° $\approx$ 32'14	
opposition	9429 May 05 03:17	18° $\mathbb{M}$ 27'57	1°52'49	opposition	9435 Jul 23 20:38	8° $\approx$ 09'40	1°50'39
min. Earth dist.	9429 May 05 05:31	18° $\mathbb{M}$ 27'30	8.32429 AU	min. Earth dist.	9435 Jul 24 03:33	8° $\approx$ 08'18	8.41731 AU
direct	9429 Jul 11 17:17	15° $\mathbb{M}$ 01'47		direct	9435 Oct 01 02:26	4° $\approx$ 42'33	
evening set	9429 Oct 23 14:45	22° $\mathbb{M}$ 53'49		evening set	9436 Jan 14 14:41	12° $\approx$ 34'11	
conjunction	9429 Nov 10 11:00	25° $\mathbb{M}$ 07'55	1°38'53	conjunction	9436 Feb 01 02:23	14° $\approx$ 44'32	1°20'04
minimum elong	9429 Nov 10 10:58	25° $\mathbb{M}$ 07'55	1°39'09	minimum elong	9436 Feb 01 02:25	14° $\approx$ 44'33	1°20'18
max. Earth dist.	9429 Nov 10 06:12	25° $\mathbb{M}$ 06'25	10.31507 AU	max. Earth dist.	9436 Jan 31 17:47	14° $\approx$ 41'51	10.44005 AU
morning rise	9429 Nov 28 07:08	27° $\mathbb{M}$ 22'02			9436 Feb 03 03:49	15° $\approx$	
	9429 Dec 20 11:57	0° $\mathbb{Z}$		morning rise	9436 Feb 18 10:39	16° $\approx$ 53'52	
retrograde	9430 Mar 12 03:59	5° $\mathbb{Z}$ 15'01		retrograde	9436 May 29 12:41	24° $\approx$ 27'42	
opposition	9430 May 18 14:04	1° $\mathbb{Z}$ 49'24	2°10'58	opposition	9436 Aug 05 04:05	21° $\approx$ 05'45	1°26'42
min. Earth dist.	9430 May 18 18:17	1° $\mathbb{Z}$ 48'33	8.31079 AU	min. Earth dist.	9436 Aug 05 10:43	21° $\approx$ 04'27	8.46527 AU
	9430 Jun 11 10:44	30° $\mathbb{R}$ $\mathbb{M}$		direct	9436 Oct 13 17:27	17° $\approx$ 39'07	
direct	9430 Jul 25 08:58	28° $\mathbb{M}$ 22'39		evening set	9437 Jan 26 23:58	25° $\approx$ 26'50	
	9430 Sep 06 17:12	0° $\mathbb{Z}$					
evening set	9430 Nov 06 19:43	6° $\mathbb{Z}$ 17'48		conjunction	9437 Feb 13 09:25	27° $\approx$ 35'55	0°58'59
conjunction	9430 Nov 24 15:20	8° $\mathbb{Z}$ 31'55	1°50'45	minimum elong	9437 Feb 13 09:27	27° $\approx$ 35'55	0°59'09
minimum elong	9430 Nov 24 15:18	8° $\mathbb{Z}$ 31'55	1°51'03	max. Earth dist.	9437 Feb 13 01:30	27° $\approx$ 33'27	10.49055 AU
max. Earth dist.	9430 Nov 24 08:31	8° $\mathbb{Z}$ 29'46	10.30716 AU	morning rise	9437 Mar 02 15:28	29° $\approx$ 43'59	
morning rise	9430 Dec 12 10:04	10° $\mathbb{Z}$ 45'47			9437 Mar 04 20:10	0° $\mathbb{H}$	
retrograde	9431 Mar 25 19:12	18° $\mathbb{Z}$ 37'25		retrograde	9437 Jun 11 10:31	7° $\mathbb{H}$ 13'51	
opposition	9431 Jun 01 01:38	15° $\mathbb{Z}$ 12'18	2°22'03	opposition	9437 Aug 18 09:31	3° $\mathbb{H}$ 52'25	0°58'44
min. Earth dist.	9431 Jun 01 06:56	15° $\mathbb{Z}$ 11'14	8.30926 AU	min. Earth dist.	9437 Aug 18 14:58	3° $\mathbb{H}$ 51'22	8.51706 AU
direct	9431 Aug 08 02:25	11° $\mathbb{Z}$ 45'06		direct	9437 Oct 27 06:20	0° $\mathbb{H}$ 26'28	
evening set	9431 Nov 21 00:39	19° $\mathbb{Z}$ 42'11		evening set	9438 Feb 09 03:38	8° $\mathbb{H}$ 09'45	
conjunction	9431 Dec 08 19:18	21° $\mathbb{Z}$ 56'01	1°56'38	conjunction	9438 Feb 26 10:45	10° $\mathbb{H}$ 17'31	0°35'13
minimum elong	9431 Dec 08 19:17	21° $\mathbb{Z}$ 56'01	1°56'57	minimum elong	9438 Feb 26 10:46	10° $\mathbb{H}$ 17'31	0°35'20
max. Earth dist.	9431 Dec 08 11:35	21° $\mathbb{Z}$ 53'34	10.31170 AU	max. Earth dist.	9438 Feb 26 04:32	10° $\mathbb{H}$ 15'35	10.54358 AU
morning rise	9431 Dec 26 12:12	24° $\mathbb{Z}$ 09'21		morning rise	9438 Mar 15 14:30	12° $\mathbb{H}$ 24'17	
	9432 Feb 19 17:07	0° $\mathbb{Z}$		retrograde	9438 Jun 24 07:21	19° $\mathbb{H}$ 50'39	
retrograde	9432 Apr 07 09:19	1° $\mathbb{Z}$ 58'37		opposition	9438 Aug 31 12:52	16° $\mathbb{H}$ 29'41	0°28'15
	9432 May 26 03:44	30° $\mathbb{R}$ $\mathbb{Z}$		min. Earth dist.	9438 Aug 31 16:38	16° $\mathbb{H}$ 28'57	8.57018 AU
opposition	9432 Jun 13 13:20	28° $\mathbb{Z}$ 34'05	2°25'27	direct	9438 Nov 09 13:46	13° $\mathbb{H}$ 04'33	
min. Earth dist.	9432 Jun 13 19:02	28° $\mathbb{Z}$ 32'56	8.32010 AU	evening set	9439 Feb 22 01:52	20° $\mathbb{H}$ 43'11	
direct	9432 Aug 20 21:01	25° $\mathbb{Z}$ 06'38		conjunction	9439 Mar 11 06:35	22° $\mathbb{H}$ 49'37	0°10'02
	9432 Nov 08 00:00	0° $\mathbb{Z}$		minimum elong	9439 Mar 11 06:35	22° $\mathbb{H}$ 49'37	0°10'05
evening set	9432 Dec 04 03:57	3° $\mathbb{Z}$ 04'17		behind sun begin	9439 Mar 11 00:52	22° $\mathbb{H}$ 47'52	
conjunction	9432 Dec 21 21:19	5° $\mathbb{Z}$ 17'34	1°56'13	behind sun end	9439 Mar 11 12:18	22° $\mathbb{H}$ 51'22	
minimum elong	9432 Dec 21 21:19	5° $\mathbb{Z}$ 17'35	1°56'33	max. Earth dist.	9439 Mar 11 02:30	22° $\mathbb{H}$ 48'23	10.59653 AU
max. Earth dist.	9432 Dec 21 13:16	5° $\mathbb{Z}$ 15'02	10.32858 AU	morning rise	9439 Mar 28 08:03	24° $\mathbb{H}$ 55'08	
morning rise	9433 Jan 08 12:06	7° $\mathbb{Z}$ 30'08			9439 May 15 10:49	0° $\mathbb{Y}$	
retrograde	9433 Apr 20 20:30	15° $\mathbb{Z}$ 16'13		retrograde	9439 Jul 07 01:16	2° $\mathbb{Y}$ 18'35	
opposition	9433 Jun 27 00:47	11° $\mathbb{Z}$ 52'20	2°21'01	desc. node	9439 Aug 06 08:43	1° $\mathbb{Y}$ 32'16	
min. Earth dist.	9433 Jun 27 06:46	11° $\mathbb{Z}$ 51'08	8.34266 AU		9439 Aug 30 22:09	30° $\mathbb{R}$ $\mathbb{H}$	
direct	9433 Sep 03 16:29	8° $\mathbb{Z}$ 24'48		opposition	9439 Sep 13 14:14	28° $\mathbb{H}$ 58'01	-0°03'12
evening set	9433 Dec 18 04:06	16° $\mathbb{Z}$ 21'39		min. Earth dist.	9439 Sep 13 16:53	28° $\mathbb{H}$ 57'30	8.62202 AU
conjunction	9434 Jan 04 19:48	18° $\mathbb{Z}$ 34'08	1°49'36	direct	9439 Nov 22 17:17	25° $\mathbb{H}$ 33'47	
minimum elong	9434 Jan 04 19:50	18° $\mathbb{Z}$ 34'09	1°49'55		9440 Feb 07 04:52	0° $\mathbb{Y}$	
max. Earth dist.	9434 Jan 04 11:43	18° $\mathbb{Z}$ 31'35	10.35673 AU	evening set	9440 Mar 05 19:26	3° $\mathbb{Y}$ 07'53	
morning rise	9434 Jan 22 08:20	20° $\mathbb{Z}$ 45'44		conjunction	9440 Mar 22 21:31	5° $\mathbb{Y}$ 12'59	-0°15'28
retrograde	9434 May 04 05:33	28° $\mathbb{Z}$ 28'01		minimum elong	9440 Mar 22 21:31	5° $\mathbb{Y}$ 12'59	0°15'28
opposition	9434 Jul 10 11:25	25° $\mathbb{Z}$ 04'48	2°09'09	behind sun begin	9440 Mar 22 19:26	5° $\mathbb{Y}$ 12'21	
min. Earth dist.	9434 Jul 10 17:49	25° $\mathbb{Z}$ 03'31	8.37565 AU	behind sun end	9440 Mar 22 23:36	5° $\mathbb{Y}$ 13'37	
direct	9434 Sep 17 10:20	21° $\mathbb{Z}$ 37'23		max. Earth dist.	9440 Mar 22 18:43	5° $\mathbb{Y}$ 12'08	10.64677 AU
evening set	9434 Dec 31 23:58	29° $\mathbb{Z}$ 32'09		morning rise	9440 Apr 08 20:52	7° $\mathbb{Y}$ 17'19	
	9435 Jan 04 18:14	0° $\approx$		retrograde	9440 Jul 18 16:15	14° $\mathbb{Y}$ 38'36	
conjunction	9435 Jan 18 13:46	1° $\approx$ 43'39	1°37'17	opposition	9440 Sep 25 13:38	11° $\mathbb{Y}$ 18'19	-0°34'09
				min. Earth dist.	9440 Sep 25 15:27	11° $\mathbb{Y}$ 17'59	8.67015 AU
				direct	9440 Dec 04 18:36	7° $\mathbb{Y}$ 55'00	

evening set	9441 Mar 18 08:42	15° $\Upsilon$ 24'50	evening set	9447 May 29 14:09	27° $\Pi$ 42'28
conjunction	9441 Apr 04 08:10	17° $\Upsilon$ 28'42 -0°39'56	conjunction	9447 Jun 15 08:08	29° $\Pi$ 43'39 -1°57'53
minimum elong	9441 Apr 04 08:08	17° $\Upsilon$ 28'41 0°40'00	minimum elong	9447 Jun 15 08:08	29° $\Pi$ 43'39 1°58'13
max. Earth dist.	9441 Apr 04 06:24	17° $\Upsilon$ 28'09 10.69208 AU	max. Earth dist.	9447 Jun 15 15:20	29° $\Pi$ 45'50 10.77586 AU
morning rise	9441 Apr 21 05:39	19° $\Upsilon$ 31'58		9447 Jun 17 13:57	0° $\mathfrak{E}$
retrograde	9441 Jul 31 06:00	26° $\Upsilon$ 51'53	morning rise	9447 Jul 02 04:10	1° $\mathfrak{E}$ 45'27
opposition	9441 Oct 08 11:28	23° $\Upsilon$ 31'46 -1°03'13	retrograde	9447 Oct 13 17:55	9° $\mathfrak{E}$ 11'53
min. Earth dist.	9441 Oct 08 12:03	23° $\Upsilon$ 31'39 8.71247 AU	opposition	9447 Dec 23 01:20	5° $\mathfrak{E}$ 49'55 -2°23'28
direct	9441 Dec 17 16:26	20° $\Upsilon$ 09'21	min. Earth dist.	9447 Dec 22 18:41	5° $\mathfrak{E}$ 51'10 8.76650 AU
evening set	9442 Mar 30 18:05	27° $\Upsilon$ 35'17	direct	9448 Mar 01 04:16	2° $\mathfrak{E}$ 30'25
			evening set	9448 Jun 09 18:33	9° $\mathfrak{E}$ 45'59
conjunction	9442 Apr 16 15:17	29° $\Upsilon$ 38'03 -1°02'25			
minimum elong	9442 Apr 16 15:15	29° $\Upsilon$ 38'02 1°02'33	conjunction	9448 Jun 26 14:13	11° $\mathfrak{E}$ 47'51 -1°54'23
max. Earth dist.	9442 Apr 16 15:10	29° $\Upsilon$ 38'01 10.73050 AU	minimum elong	9448 Jun 26 14:14	11° $\mathfrak{E}$ 47'51 1°54'42
	9442 Apr 19 15:12	0° $\mathfrak{E}$	max. Earth dist.	9448 Jun 26 22:24	11° $\mathfrak{E}$ 50'20 10.75134 AU
morning rise	9442 May 03 11:10	1° $\mathfrak{E}$ 40'25	morning rise	9448 Jul 13 12:20	13° $\mathfrak{E}$ 50'28
retrograde	9442 Aug 12 18:21	8° $\mathfrak{E}$ 59'47	retrograde	9448 Oct 25 13:05	21° $\mathfrak{E}$ 19'54
opposition	9442 Oct 21 07:42	5° $\mathfrak{E}$ 39'40 -1°29'12	opposition	9449 Jan 03 19:22	17° $\mathfrak{E}$ 57'14 -2°16'02
min. Earth dist.	9442 Oct 21 06:14	5° $\mathfrak{E}$ 39'56 8.74709 AU	min. Earth dist.	9449 Jan 03 12:11	17° $\mathfrak{E}$ 58'36 8.73615 AU
direct	9442 Dec 30 11:41	2° $\mathfrak{E}$ 18'06	direct	9449 Mar 13 15:38	14° $\mathfrak{E}$ 37'38
evening set	9443 Apr 12 00:40	9° $\mathfrak{E}$ 40'40	evening set	9449 Jun 22 01:29	21° $\mathfrak{E}$ 54'07
conjunction	9443 Apr 28 20:03	11° $\mathfrak{E}$ 42'32 -1°21'59	conjunction	9449 Jul 08 23:29	23° $\mathfrak{E}$ 57'01 -1°45'46
minimum elong	9443 Apr 28 20:01	11° $\mathfrak{E}$ 42'32 1°22'11	minimum elong	9449 Jul 08 23:31	23° $\mathfrak{E}$ 57'01 1°46'04
max. Earth dist.	9443 Apr 28 22:28	11° $\mathfrak{E}$ 43'17 10.76036 AU	max. Earth dist.	9449 Jul 09 07:23	23° $\mathfrak{E}$ 59'25 10.71590 AU
morning rise	9443 May 15 14:36	13° $\mathfrak{E}$ 44'13	morning rise	9449 Jul 26 00:32	26° $\mathfrak{E}$ 00'48
	9443 May 26 09:42	15° $\mathfrak{E}$		9449 Aug 31 09:57	0° $\mathfrak{I}$
retrograde	9443 Aug 25 07:53	21° $\mathfrak{E}$ 03'46	retrograde	9449 Nov 07 11:46	3° $\mathfrak{I}$ 33'30
opposition	9443 Nov 03 02:36	17° $\mathfrak{E}$ 43'31 -1°51'05	opposition	9450 Jan 16 14:17	0° $\mathfrak{I}$ 10'08 -2°02'26
min. Earth dist.	9443 Nov 02 23:14	17° $\mathfrak{E}$ 44'09 8.77250 AU	min. Earth dist.	9450 Jan 16 07:38	0° $\mathfrak{I}$ 11'25 8.69571 AU
	9443 Dec 15 10:46	15° $\mathfrak{R}$ $\mathfrak{E}$		9450 Jan 18 19:13	30° $\mathfrak{R}$ $\mathfrak{E}$
direct	9444 Jan 12 04:18	14° $\mathfrak{E}$ 22'42	direct	9450 Mar 26 02:43	26° $\mathfrak{E}$ 50'11
	9444 Feb 08 10:58	15° $\mathfrak{E}$		9450 May 27 11:44	0° $\mathfrak{I}$
evening set	9444 Apr 23 05:11	21° $\mathfrak{E}$ 42'29	evening set	9450 Jul 04 11:45	4° $\mathfrak{I}$ 08'26
conjunction	9444 May 09 23:09	23° $\mathfrak{E}$ 43'44 -1°37'52	conjunction	9450 Jul 21 12:41	6° $\mathfrak{I}$ 12'37 -1°32'16
minimum elong	9444 May 09 23:08	23° $\mathfrak{E}$ 43'43 1°38'07	minimum elong	9450 Jul 21 12:43	6° $\mathfrak{I}$ 12'37 1°32'33
max. Earth dist.	9444 May 10 03:33	23° $\mathfrak{E}$ 45'04 10.78045 AU	max. Earth dist.	9450 Jul 21 19:40	6° $\mathfrak{I}$ 14'45 10.67170 AU
morning rise	9444 May 26 16:56	25° $\mathfrak{E}$ 44'58	morning rise	9450 Aug 07 17:12	8° $\mathfrak{I}$ 17'50
	9444 Jul 05 04:29	0° $\mathfrak{I}$		9450 Oct 18 10:52	15° $\mathfrak{I}$
retrograde	9444 Sep 05 21:34	3° $\mathfrak{I}$ 05'23	retrograde	9450 Nov 20 11:48	15° $\mathfrak{I}$ 53'57
	9444 Nov 11 12:37	30° $\mathfrak{R}$ $\mathfrak{E}$		9450 Dec 23 20:14	15° $\mathfrak{R}$ $\mathfrak{I}$
opposition	9444 Nov 14 20:52	29° $\mathfrak{E}$ 44'54 -2°08'00	opposition	9451 Jan 29 10:29	12° $\mathfrak{I}$ 29'51 -1°43'06
min. Earth dist.	9444 Nov 14 16:17	29° $\mathfrak{E}$ 45'46 8.78772 AU	min. Earth dist.	9451 Jan 29 04:40	12° $\mathfrak{I}$ 30'58 8.64768 AU
direct	9445 Jan 23 16:49	26° $\mathfrak{E}$ 24'42	direct	9451 Apr 07 15:28	9° $\mathfrak{I}$ 09'20
	9445 Apr 01 13:34	0° $\mathfrak{I}$		9451 Jul 04 07:21	15° $\mathfrak{I}$
evening set	9445 May 05 08:17	3° $\mathfrak{I}$ 42'19	evening set	9451 Jul 17 02:04	16° $\mathfrak{I}$ 30'06
conjunction	9445 May 22 01:24	5° $\mathfrak{I}$ 43'13 -1°49'25	conjunction	9451 Aug 03 06:24	18° $\mathfrak{I}$ 35'46 -1°14'24
minimum elong	9445 May 22 01:22	5° $\mathfrak{I}$ 43'12 1°49'43	minimum elong	9451 Aug 03 06:26	18° $\mathfrak{I}$ 35'46 1°14'38
max. Earth dist.	9445 May 22 06:42	5° $\mathfrak{I}$ 44'49 10.79005 AU	max. Earth dist.	9451 Aug 03 12:58	18° $\mathfrak{I}$ 37'47 10.62121 AU
morning rise	9445 Jun 07 19:14	7° $\mathfrak{I}$ 44'19	morning rise	9451 Aug 20 14:31	20° $\mathfrak{I}$ 42'31
retrograde	9445 Sep 18 10:27	15° $\mathfrak{I}$ 06'14	retrograde	9451 Dec 03 13:29	28° $\mathfrak{I}$ 22'09
opposition	9445 Nov 27 14:38	11° $\mathfrak{I}$ 45'23 -2°19'18	opposition	9452 Feb 11 08:10	24° $\mathfrak{I}$ 57'17 -1°18'44
min. Earth dist.	9445 Nov 27 09:35	11° $\mathfrak{I}$ 46'20 8.79211 AU	min. Earth dist.	9452 Feb 11 02:51	24° $\mathfrak{I}$ 58'19 8.59471 AU
direct	9446 Feb 05 05:27	8° $\mathfrak{I}$ 25'36	direct	9452 Apr 19 08:47	21° $\mathfrak{I}$ 36'04
evening set	9446 May 17 11:02	15° $\mathfrak{I}$ 41'48	evening set	9452 Jul 28 21:17	29° $\mathfrak{I}$ 00'01
				9452 Aug 06 02:32	0° $\mathfrak{I}$
conjunction	9446 Jun 03 04:06	17° $\mathfrak{I}$ 42'39 -1°56'11	conjunction	9452 Aug 15 05:17	1° $\mathfrak{I}$ 07'18 -0°52'50
minimum elong	9446 Jun 03 04:05	17° $\mathfrak{I}$ 42'39 1°56'30	minimum elong	9452 Aug 15 05:19	1° $\mathfrak{I}$ 07'18 0°53'01
max. Earth dist.	9446 Jun 03 10:04	17° $\mathfrak{I}$ 44'28 10.78867 AU	max. Earth dist.	9452 Aug 15 12:00	1° $\mathfrak{I}$ 09'22 10.56708 AU
morning rise	9446 Jun 19 22:43	19° $\mathfrak{I}$ 43'56	morning rise	9452 Sep 01 16:55	3° $\mathfrak{I}$ 15'40
retrograde	9446 Oct 01 01:14	27° $\mathfrak{I}$ 07'53	retrograde	9452 Dec 15 20:07	10° $\mathfrak{I}$ 58'42
opposition	9446 Dec 10 07:53	23° $\mathfrak{I}$ 46'31 -2°24'33	opposition	9453 Feb 23 07:26	7° $\mathfrak{I}$ 33'06 -0°50'19
min. Earth dist.	9446 Dec 10 02:08	23° $\mathfrak{I}$ 47'36 8.78519 AU	min. Earth dist.	9453 Feb 23 02:12	7° $\mathfrak{I}$ 34'08 8.53950 AU
direct	9447 Feb 17 17:40	20° $\mathfrak{I}$ 26'58			

direct	9453 May 02 02:44	4° $\mathbb{M}$ 11'06	max. Earth dist.	9458 Nov 04 04:59	19° $\mathbb{M}$ 14'54	10.30713 AU
evening set	9453 Aug 10 21:57	11° $\mathbb{M}$ 38'50	morning rise	9458 Nov 22 04:18	21° $\mathbb{M}$ 30'02	
			retrograde	9459 Mar 06 05:09	29° $\mathbb{M}$ 23'47	
conjunction	9453 Aug 28 09:30	13° $\mathbb{M}$ 47'44 -0°28'30	opposition	9459 May 12 18:49	25° $\mathbb{M}$ 57'18	2°03'30
minimum elong	9453 Aug 28 09:31	13° $\mathbb{M}$ 47'44 0°28'37	min. Earth dist.	9459 May 12 21:01	25° $\mathbb{M}$ 56'51	8.30074 AU
max. Earth dist.	9453 Aug 28 15:36	13° $\mathbb{M}$ 49'37 10.51187 AU	direct	9459 Jul 19 12:10	22° $\mathbb{M}$ 30'14	
morning rise	9453 Sep 15 00:24	15° $\mathbb{M}$ 57'42		9459 Oct 28 08:23	0° $\mathbb{X}$	
retrograde	9453 Dec 29 06:02	23° $\mathbb{M}$ 43'52	evening set	9459 Oct 31 15:31	0° $\mathbb{X}$ 24'21	
opposition	9454 Mar 08 08:35	20° $\mathbb{M}$ 17'41 -0°19'04				
min. Earth dist.	9454 Mar 08 04:04	20° $\mathbb{M}$ 18'34 8.48455 AU	conjunction	9459 Nov 18 11:43	2° $\mathbb{X}$ 38'40	1°46'00
direct	9454 May 14 22:34	16° $\mathbb{M}$ 54'47	minimum elong	9459 Nov 18 11:41	2° $\mathbb{X}$ 38'40	1°46'18
evening set	9454 Aug 24 04:33	24° $\mathbb{M}$ 26'53	max. Earth dist.	9459 Nov 18 07:39	2° $\mathbb{X}$ 37'23	10.29537 AU
			morning rise	9459 Dec 06 07:07	4° $\mathbb{X}$ 52'49	
conjunction	9454 Sep 10 19:06	26° $\mathbb{M}$ 37'18 -0°02'32	retrograde	9460 Mar 18 22:15	12° $\mathbb{X}$ 45'36	
minimum elong	9454 Sep 10 19:07	26° $\mathbb{M}$ 37'18 0°02'35	opposition	9460 May 25 06:07	9° $\mathbb{X}$ 19'39	2°17'55
behind sun begin	9454 Sep 10 11:54	26° $\mathbb{M}$ 35'05	min. Earth dist.	9460 May 25 09:34	9° $\mathbb{X}$ 18'57	8.29560 AU
behind sun end	9454 Sep 11 02:20	26° $\mathbb{M}$ 39'31	direct	9460 Aug 01 03:34	5° $\mathbb{X}$ 52'09	
max. Earth dist.	9454 Sep 10 23:29	26° $\mathbb{M}$ 38'37 10.45811 AU	evening set	9460 Nov 13 20:50	13° $\mathbb{X}$ 48'45	
morning rise	9454 Sep 28 12:46	28° $\mathbb{M}$ 48'41				
	9454 Oct 08 10:58	0° $\mathbb{E}$	conjunction	9460 Dec 01 16:08	16° $\mathbb{X}$ 02'54	1°54'41
asc. node	9454 Oct 16 09:32	0° $\mathbb{E}$ 55'03	minimum elong	9460 Dec 01 16:07	16° $\mathbb{X}$ 02'53	1°55'00
retrograde	9455 Jan 11 16:51	6° $\mathbb{E}$ 37'38	max. Earth dist.	9460 Dec 01 10:14	16° $\mathbb{X}$ 01'02	10.29645 AU
opposition	9455 Mar 21 11:41	3° $\mathbb{E}$ 11'02 0°13'32	morning rise	9460 Dec 19 09:54	18° $\mathbb{X}$ 16'37	
min. Earth dist.	9455 Mar 21 08:41	3° $\mathbb{E}$ 11'38 8.43252 AU	retrograde	9461 Apr 01 13:33	26° $\mathbb{X}$ 07'26	
	9455 May 12 13:53	30° $\mathbb{R}$ $\mathbb{M}$	opposition	9461 Jun 07 17:56	22° $\mathbb{X}$ 42'12	2°24'52
direct	9455 May 27 23:26	29° $\mathbb{M}$ 47'12	min. Earth dist.	9461 Jun 07 22:57	22° $\mathbb{X}$ 41'11	8.30328 AU
	9455 Jun 12 08:21	0° $\mathbb{E}$	direct	9461 Aug 14 21:27	19° $\mathbb{X}$ 14'29	
evening set	9455 Sep 06 16:51	7° $\mathbb{E}$ 24'00	evening set	9461 Nov 28 01:20	27° $\mathbb{X}$ 12'21	
conjunction	9455 Sep 24 09:54	9° $\mathbb{E}$ 35'47 0°23'57	conjunction	9461 Dec 15 19:17	29° $\mathbb{X}$ 26'01	1°57'08
minimum elong	9455 Sep 24 09:53	9° $\mathbb{E}$ 35'47 0°23'59	minimum elong	9461 Dec 15 19:17	29° $\mathbb{X}$ 26'01	1°57'28
max. Earth dist.	9455 Sep 24 11:59	9° $\mathbb{E}$ 36'26 10.40847 AU	max. Earth dist.	9461 Dec 15 11:46	29° $\mathbb{X}$ 23'38	10.31042 AU
morning rise	9455 Oct 12 05:40	11° $\mathbb{E}$ 48'23		9461 Dec 20 06:50	0° $\mathbb{Z}$	
retrograde	9456 Jan 25 06:11	19° $\mathbb{E}$ 39'38	morning rise	9462 Jan 02 11:10	1° $\mathbb{Z}$ 39'05	
opposition	9456 Apr 02 16:53	16° $\mathbb{E}$ 12'46 0°45'48	retrograde	9462 Apr 15 01:46	9° $\mathbb{Z}$ 27'04	
min. Earth dist.	9456 Apr 02 15:45	16° $\mathbb{E}$ 13'00 8.38603 AU	opposition	9462 Jun 21 05:55	6° $\mathbb{Z}$ 02'40	2°23'57
direct	9456 Jun 09 03:21	12° $\mathbb{E}$ 47'59	min. Earth dist.	9462 Jun 21 11:52	6° $\mathbb{Z}$ 01'28	8.32345 AU
evening set	9456 Sep 19 10:31	20° $\mathbb{E}$ 29'38	direct	9462 Aug 28 17:25	2° $\mathbb{Z}$ 34'58	
			evening set	9462 Dec 12 03:16	10° $\mathbb{Z}$ 32'42	
conjunction	9456 Oct 07 05:27	22° $\mathbb{E}$ 42'31 0°49'20				
minimum elong	9456 Oct 07 05:25	22° $\mathbb{E}$ 42'30 0°49'27	conjunction	9462 Dec 29 19:40	12° $\mathbb{Z}$ 45'39	1°53'18
max. Earth dist.	9456 Oct 07 05:31	22° $\mathbb{E}$ 42'32 10.36539 AU	minimum elong	9462 Dec 29 19:41	12° $\mathbb{Z}$ 45'40	1°53'38
morning rise	9456 Oct 25 02:28	24° $\mathbb{E}$ 56'02	max. Earth dist.	9462 Dec 29 11:27	12° $\mathbb{Z}$ 43'04	10.33657 AU
	9456 Dec 10 11:36	0° $\mathbb{M}$	morning rise	9463 Jan 16 09:28	14° $\mathbb{Z}$ 57'50	
retrograde	9457 Feb 06 21:12	2° $\mathbb{M}$ 48'56	retrograde	9463 Apr 28 12:00	22° $\mathbb{Z}$ 42'19	
	9457 Apr 08 01:47	30° $\mathbb{R}$ $\mathbb{E}$	opposition	9463 Jul 04 17:21	19° $\mathbb{Z}$ 18'46	2°15'21
opposition	9457 Apr 15 23:57	29° $\mathbb{E}$ 21'59 1°16'01	min. Earth dist.	9463 Jul 04 23:27	19° $\mathbb{Z}$ 17'33	8.35499 AU
min. Earth dist.	9457 Apr 16 00:18	29° $\mathbb{E}$ 21'55 8.34731 AU	direct	9463 Sep 11 12:32	15° $\mathbb{Z}$ 51'18	
direct	9457 Jun 22 11:03	25° $\mathbb{E}$ 56'19	evening set	9463 Dec 26 01:42	23° $\mathbb{Z}$ 47'33	
	9457 Sep 01 01:18	0° $\mathbb{M}$				
evening set	9457 Oct 03 09:02	3° $\mathbb{M}$ 42'41	conjunction	9464 Jan 12 16:24	25° $\mathbb{Z}$ 59'37	1°43'28
			minimum elong	9464 Jan 12 16:26	25° $\mathbb{Z}$ 59'37	1°43'46
conjunction	9457 Oct 21 05:08	5° $\mathbb{M}$ 56'22 1°12'20	max. Earth dist.	9464 Jan 12 08:22	25° $\mathbb{Z}$ 57'05	10.37343 AU
minimum elong	9457 Oct 21 05:06	5° $\mathbb{M}$ 56'22 1°12'31	morning rise	9464 Jan 30 04:00	28° $\mathbb{Z}$ 10'44	
max. Earth dist.	9457 Oct 21 03:44	5° $\mathbb{M}$ 55'56 10.33096 AU		9464 Feb 14 07:55	0° $\mathbb{A}$	
morning rise	9457 Nov 08 02:23	8° $\mathbb{M}$ 10'27	retrograde	9464 May 10 19:57	5° $\mathbb{A}$ 51'11	
	9458 Jan 16 13:43	15° $\mathbb{M}$	opposition	9464 Jul 17 03:34	2° $\mathbb{A}$ 28'28	1°59'42
retrograde	9458 Feb 20 12:48	16° $\mathbb{M}$ 04'12	min. Earth dist.	9464 Jul 17 09:11	2° $\mathbb{A}$ 27'21	8.39610 AU
	9458 Mar 27 18:08	15° $\mathbb{R}$ $\mathbb{M}$		9464 Aug 21 01:56	30° $\mathbb{R}$ $\mathbb{Z}$	
opposition	9458 Apr 29 08:35	12° $\mathbb{M}$ 37'24 1°42'26	direct	9464 Sep 24 06:12	29° $\mathbb{Z}$ 01'25	
min. Earth dist.	9458 Apr 29 09:55	12° $\mathbb{M}$ 37'07 8.31833 AU		9464 Oct 28 03:33	0° $\mathbb{A}$	
direct	9458 Jul 05 22:41	9° $\mathbb{M}$ 10'57	evening set	9465 Jan 07 19:34	6° $\mathbb{A}$ 55'00	
	9458 Sep 30 13:33	15° $\mathbb{M}$				
evening set	9458 Oct 17 11:11	17° $\mathbb{M}$ 01'36	conjunction	9465 Jan 25 08:24	9° $\mathbb{A}$ 05'58	1°28'20
			minimum elong	9465 Jan 25 08:26	9° $\mathbb{A}$ 05'59	1°28'36
conjunction	9458 Nov 04 07:41	19° $\mathbb{M}$ 15'45 1°31'36	max. Earth dist.	9465 Jan 25 01:17	9° $\mathbb{A}$ 03'44	10.41884 AU
minimum elong	9458 Nov 04 07:39	19° $\mathbb{M}$ 15'45 1°31'51	morning rise	9465 Feb 11 17:40	11° $\mathbb{A}$ 15'55	

	9465 Mar 16 10:49	15°♊		minimum elong	9471 Apr 11 14:40	24°♊32'52	0°52'52
retrograde	9465 May 24 00:34	18°♊52'06		max. Earth dist.	9471 Apr 11 13:26	24°♊32'30	10.70784 AU
opposition	9465 Jul 30 12:30	15°♊30'10	1°38'01	morning rise	9471 Apr 28 11:12	26°♊35'48	
min. Earth dist.	9465 Jul 30 17:47	15°♊29'08	8.44450 AU		9471 May 28 21:27	0°♋	
	9465 Aug 05 22:26	15°♋		retrograde	9471 Aug 07 16:58	3°♋56'07	
direct	9465 Oct 07 22:08	12°♋03'43		opposition	9471 Oct 16 00:56	0°♋36'10	-1°18'11
	9465 Dec 07 11:25	15°♋		min. Earth dist.	9471 Oct 16 01:21	0°♋36'05	8.72349 AU
evening set	9466 Jan 21 08:02	19°♋53'37			9471 Oct 24 00:54	30°♌♊	
				direct	9471 Dec 25 04:07	27°♊14'18	
conjunction	9466 Feb 07 18:41	22°♋03'21	1°08'50		9472 Feb 22 06:56	0°♋	
minimum elong	9466 Feb 07 18:43	22°♋03'21	1°09'02	evening set	9472 Apr 06 01:02	4°♋39'14	
max. Earth dist.	9466 Feb 07 12:15	22°♋01'20	10.47023 AU				
morning rise	9466 Feb 25 01:38	24°♋12'01		conjunction	9472 Apr 22 21:13	6°♋41'41	-1°13'47
	9466 Apr 22 06:50	0°♌		minimum elong	9472 Apr 22 21:11	6°♋41'41	1°13'57
retrograde	9466 Jun 06 01:58	1°♌44'01		max. Earth dist.	9472 Apr 22 20:54	6°♋41'35	10.73622 AU
	9466 Jul 22 03:20	30°♌		morning rise	9472 May 09 16:22	8°♋43'52	
opposition	9466 Aug 12 19:35	28°♌22'47	1°11'39		9472 Jul 14 11:12	15°♋	
min. Earth dist.	9466 Aug 13 00:48	28°♌21'46	8.49746 AU	retrograde	9472 Aug 19 06:05	16°♋04'10	
direct	9466 Oct 21 11:20	24°♌57'00			9472 Sep 24 20:24	15°♌♋	
	9467 Jan 11 07:15	0°♌		opposition	9472 Oct 27 21:25	12°♋43'57	-1°42'04
evening set	9467 Feb 03 15:01	2°♌42'35		min. Earth dist.	9472 Oct 27 20:51	12°♋44'04	8.74776 AU
				direct	9473 Jan 05 23:10	9°♋22'39	
conjunction	9467 Feb 20 23:15	4°♌50'59	0°46'06		9473 Apr 03 06:25	15°♋	
minimum elong	9467 Feb 20 23:17	4°♌51'00	0°46'15	evening set	9473 Apr 18 07:11	16°♋44'38	
max. Earth dist.	9467 Feb 20 16:59	4°♌49'03	10.52453 AU				
morning rise	9467 Mar 10 04:01	6°♌58'22		conjunction	9473 May 05 01:41	18°♋46'22	-1°31'25
retrograde	9467 Jun 18 23:49	14°♌26'29		minimum elong	9473 May 05 01:39	18°♋46'22	1°31'39
opposition	9467 Aug 26 00:23	11°♌05'48	0°42'05	max. Earth dist.	9473 May 05 02:53	18°♋46'44	10.75556 AU
min. Earth dist.	9467 Aug 26 05:36	11°♌04'48	8.55168 AU	morning rise	9473 May 21 19:58	20°♋48'02	
direct	9467 Nov 03 21:06	7°♌40'45		retrograde	9473 Aug 31 19:26	28°♋09'01	
evening set	9468 Feb 16 16:27	15°♌21'46		opposition	9473 Nov 09 16:50	24°♋48'22	-2°01'20
				min. Earth dist.	9473 Nov 09 14:31	24°♋48'48	8.76261 AU
conjunction	9468 Mar 04 22:09	17°♌28'49	0°21'23	direct	9474 Jan 18 15:02	21°♋27'32	
minimum elong	9468 Mar 04 22:10	17°♌28'50	0°21'28	evening set	9474 Apr 30 11:24	28°♋47'07	
max. Earth dist.	9468 Mar 04 15:54	17°♌26'54	10.57812 AU		9474 May 10 13:42	0°♎	
morning rise	9468 Mar 22 00:47	19°♌34'56					
retrograde	9468 Jun 30 17:38	26°♌59'50		conjunction	9474 May 17 04:59	0°♎48'25	-1°44'58
opposition	9468 Sep 07 03:08	23°♌39'35	0°10'52	minimum elong	9474 May 17 04:57	0°♎48'25	1°45'15
min. Earth dist.	9468 Sep 07 07:38	23°♌38'43	8.60348 AU	max. Earth dist.	9474 May 17 08:31	0°♎49'30	10.76512 AU
direct	9468 Nov 16 04:41	20°♌15'21		morning rise	9474 Jun 02 22:54	2°♎49'51	
desc. node	9469 Jan 14 23:41	23°♌05'02		retrograde	9474 Sep 13 08:47	10°♎12'09	
evening set	9469 Feb 28 12:41	27°♌51'53		opposition	9474 Nov 22 11:23	6°♎50'57	-2°15'13
				min. Earth dist.	9474 Nov 22 07:04	6°♎51'46	8.76736 AU
conjunction	9469 Mar 17 15:51	29°♌57'37	-0°04'12	direct	9475 Jan 31 05:46	3°♎30'27	
minimum elong	9469 Mar 17 15:51	29°♌57'37	0°04'11	evening set	9475 May 12 14:53	10°♎48'21	
behind sun begin	9469 Mar 17 08:52	29°♌55'29					
behind sun end	9469 Mar 17 22:50	29°♌59'44		conjunction	9475 May 29 08:11	12°♎49'31	-1°53'53
max. Earth dist.	9469 Mar 17 10:47	29°♌56'05	10.62766 AU	minimum elong	9475 May 29 08:09	12°♎49'31	1°54'12
	9469 Mar 17 23:41	0°♏		max. Earth dist.	9475 May 29 13:53	12°♎51'15	10.76446 AU
morning rise	9469 Apr 03 16:17	2°♏02'32		morning rise	9475 Jun 15 02:22	14°♎51'00	
retrograde	9469 Jul 13 10:30	9°♏25'08		retrograde	9475 Sep 26 00:41	22°♎15'10	
opposition	9469 Sep 20 04:01	6°♏05'09	-0°20'30	opposition	9475 Dec 05 05:28	18°♎53'23	-2°23'10
min. Earth dist.	9469 Sep 20 06:55	6°♏04'36	8.65024 AU	min. Earth dist.	9475 Dec 04 23:48	18°♎54'27	8.76175 AU
direct	9469 Nov 29 08:55	2°♏41'47		direct	9476 Feb 12 18:09	15°♎33'05	
evening set	9470 Mar 13 04:24	10°♏14'04		evening set	9476 May 23 18:27	22°♎50'00	
conjunction	9470 Mar 30 05:10	12°♏18'35	-0°29'14	conjunction	9476 Jun 09 12:06	24°♎51'22	-1°57'49
minimum elong	9470 Mar 30 05:09	12°♏18'35	0°29'16	minimum elong	9476 Jun 09 12:05	24°♎51'22	1°58'08
max. Earth dist.	9470 Mar 30 02:09	12°♏17'40	10.67127 AU	max. Earth dist.	9476 Jun 09 18:38	24°♎53'21	10.75366 AU
morning rise	9470 Apr 16 03:28	14°♏22'25		morning rise	9476 Jun 26 07:28	26°♎53'15	
retrograde	9470 Jul 26 03:26	21°♏43'31			9476 Jul 24 00:48	0°♐	
opposition	9470 Oct 03 03:10	18°♏23'38	-0°50'37	retrograde	9476 Oct 07 17:47	4°♐19'46	
min. Earth dist.	9470 Oct 03 04:33	18°♏23'22	8.69063 AU	opposition	9476 Dec 16 23:44	0°♐57'21	-2°24'50
direct	9470 Dec 12 07:29	15°♏01'05		min. Earth dist.	9476 Dec 16 17:37	0°♐58'31	8.74606 AU
evening set	9471 Mar 25 16:17	22°♏29'27			9476 Dec 29 18:10	30°♑♎	
				direct	9477 Feb 24 04:32	27°♎37'08	
conjunction	9471 Apr 11 14:42	24°♏32'53	-0°52'46		9477 Apr 19 04:28	0°♐	

evening set	9477 Jun 04 22:49	4° $\mathfrak{E}$ 53'48		conjunction	9483 Sep 05 13:50	21° $\mathfrak{M}$ 33'01	-0°13'23
				minimum elong	9483 Sep 05 13:51	21° $\mathfrak{M}$ 33'01	0°13'28
conjunction	9477 Jun 21 17:41	6° $\mathfrak{E}$ 55'41	-1°56'32	behind sun begin	9483 Sep 05 09:52	21° $\mathfrak{M}$ 31'48	
minimum elong	9477 Jun 21 17:42	6° $\mathfrak{E}$ 55'41	1°56'52	behind sun end	9483 Sep 05 17:49	21° $\mathfrak{M}$ 34'14	
max. Earth dist.	9477 Jun 22 00:40	6° $\mathfrak{E}$ 57'48	10.73316 AU	max. Earth dist.	9483 Sep 05 19:58	21° $\mathfrak{M}$ 34'54	10.47709 AU
morning rise	9477 Jul 08 15:06	8° $\mathfrak{E}$ 58'17		morning rise	9483 Sep 23 06:32	23° $\mathfrak{M}$ 43'55	
retrograde	9477 Oct 20 10:47	16° $\mathfrak{E}$ 27'35			9483 Nov 24 14:29	0° $\mathfrak{A}$	
opposition	9477 Dec 29 18:16	13° $\mathfrak{E}$ 04'29	-2°20'05	retrograde	9484 Jan 06 11:02	1° $\mathfrak{A}$ 32'09	
min. Earth dist.	9477 Dec 29 11:53	13° $\mathfrak{E}$ 05'43	8.72081 AU		9484 Feb 18 22:39	30° $\mathfrak{R}$ $\mathfrak{M}$	
direct	9478 Mar 08 17:09	9° $\mathfrak{E}$ 44'11		opposition	9484 Mar 15 10:18	28° $\mathfrak{M}$ 05'53	0°00'00
evening set	9478 Jun 17 05:11	17° $\mathfrak{E}$ 01'24		min. Earth dist.	9484 Mar 15 05:48	28° $\mathfrak{M}$ 06'47	8.45363 AU
				asc. node	9484 Mar 15 09:55	28° $\mathfrak{M}$ 05'58	
conjunction	9478 Jul 04 02:12	19° $\mathfrak{E}$ 04'08	-1°50'03	direct	9484 May 21 23:17	24° $\mathfrak{M}$ 42'43	
minimum elong	9478 Jul 04 02:13	19° $\mathfrak{E}$ 04'09	1°50'21		9484 Aug 11 22:41	0° $\mathfrak{A}$	
max. Earth dist.	9478 Jul 04 09:59	19° $\mathfrak{E}$ 06'31	10.70364 AU	evening set	9484 Aug 31 10:59	2° $\mathfrak{A}$ 17'47	
morning rise	9478 Jul 21 02:11	21° $\mathfrak{E}$ 07'45					
retrograde	9478 Nov 02 07:52	28° $\mathfrak{E}$ 40'07		conjunction	9484 Sep 18 03:09	4° $\mathfrak{A}$ 29'03	0°13'06
opposition	9479 Jan 11 13:17	25° $\mathfrak{E}$ 16'20	-2°09'00	minimum elong	9484 Sep 18 03:08	4° $\mathfrak{A}$ 29'03	0°13'05
min. Earth dist.	9479 Jan 11 06:16	25° $\mathfrak{E}$ 17'40	8.68695 AU	behind sun begin	9484 Sep 17 22:54	4° $\mathfrak{A}$ 27'45	
direct	9479 Mar 21 05:50	21° $\mathfrak{E}$ 55'49		behind sun end	9484 Sep 18 07:23	4° $\mathfrak{A}$ 30'21	
evening set	9479 Jun 29 14:26	29° $\mathfrak{E}$ 14'18		max. Earth dist.	9484 Sep 18 08:23	4° $\mathfrak{A}$ 30'40	10.43144 AU
	9479 Jul 05 21:58	0° $\mathfrak{Q}$		morning rise	9484 Oct 05 22:06	6° $\mathfrak{A}$ 41'11	
conjunction	9479 Jul 16 14:16	1° $\mathfrak{Q}$ 18'12	-1°38'32	retrograde	9485 Jan 19 00:57	14° $\mathfrak{A}$ 31'46	
minimum elong	9479 Jul 16 14:18	1° $\mathfrak{Q}$ 18'13	1°38'49	opposition	9485 Mar 28 14:58	11° $\mathfrak{A}$ 05'21	0°32'37
max. Earth dist.	9479 Jul 16 23:15	1° $\mathfrak{Q}$ 20'57	10.66625 AU	min. Earth dist.	9485 Mar 28 11:21	11° $\mathfrak{A}$ 06'04	8.41046 AU
morning rise	9479 Aug 02 17:17	3° $\mathfrak{Q}$ 23'05		direct	9485 Jun 04 01:18	7° $\mathfrak{A}$ 41'25	
retrograde	9479 Nov 15 08:14	10° $\mathfrak{Q}$ 58'43		evening set	9485 Sep 14 03:03	15° $\mathfrak{A}$ 21'04	
opposition	9480 Jan 24 09:30	7° $\mathfrak{Q}$ 34'16	-1°51'57	conjunction	9485 Oct 01 21:22	17° $\mathfrak{A}$ 33'29	0°39'03
min. Earth dist.	9480 Jan 24 01:46	7° $\mathfrak{Q}$ 35'45	8.64595 AU	minimum elong	9485 Oct 01 21:21	17° $\mathfrak{A}$ 33'29	0°39'08
direct	9480 Apr 01 18:31	4° $\mathfrak{Q}$ 13'26		max. Earth dist.	9485 Oct 02 00:56	17° $\mathfrak{A}$ 34'36	10.39096 AU
evening set	9480 Jul 11 03:22	11° $\mathfrak{Q}$ 33'56		morning rise	9485 Oct 19 17:46	19° $\mathfrak{A}$ 46'35	
conjunction	9480 Jul 28 06:25	13° $\mathfrak{Q}$ 39'12	-1°22'23	retrograde	9486 Feb 01 16:41	27° $\mathfrak{A}$ 38'51	
minimum elong	9480 Jul 28 06:28	13° $\mathfrak{Q}$ 39'13	1°22'38	opposition	9486 Apr 10 21:34	24° $\mathfrak{A}$ 12'24	1°03'52
max. Earth dist.	9480 Jul 28 15:31	13° $\mathfrak{Q}$ 42'00	10.62272 AU	min. Earth dist.	9486 Apr 10 19:26	24° $\mathfrak{A}$ 12'49	8.37342 AU
	9480 Aug 08 06:20	15° $\mathfrak{Q}$		direct	9486 Jun 17 07:04	20° $\mathfrak{A}$ 47'40	
morning rise	9480 Aug 14 12:56	15° $\mathfrak{Q}$ 45'32		evening set	9486 Sep 27 23:58	28° $\mathfrak{A}$ 31'53	
retrograde	9480 Nov 27 11:05	23° $\mathfrak{Q}$ 24'32			9486 Oct 09 19:38	0° $\mathfrak{M}$	
opposition	9481 Feb 05 07:10	19° $\mathfrak{Q}$ 59'28	-1°29'31	conjunction	9486 Oct 15 19:34	0° $\mathfrak{M}$ 45'08	1°03'11
min. Earth dist.	9481 Feb 04 23:39	20° $\mathfrak{Q}$ 00'56	8.59976 AU	minimum elong	9486 Oct 15 19:31	0° $\mathfrak{M}$ 45'07	1°03'21
direct	9481 Apr 14 09:24	16° $\mathfrak{Q}$ 38'11		max. Earth dist.	9486 Oct 15 20:21	0° $\mathfrak{M}$ 45'23	10.35722 AU
evening set	9481 Jul 23 21:07	24° $\mathfrak{Q}$ 01'27		morning rise	9486 Nov 02 16:34	2° $\mathfrak{M}$ 58'52	
conjunction	9481 Aug 10 03:35	26° $\mathfrak{Q}$ 08'14	-1°02'13	retrograde	9487 Feb 15 08:25	10° $\mathfrak{M}$ 52'05	
minimum elong	9481 Aug 10 03:37	26° $\mathfrak{Q}$ 08'15	1°02'26	opposition	9487 Apr 24 05:49	7° $\mathfrak{M}$ 25'46	1°32'00
max. Earth dist.	9481 Aug 10 11:40	26° $\mathfrak{Q}$ 10'43	10.57513 AU	min. Earth dist.	9487 Apr 24 06:02	7° $\mathfrak{M}$ 25'43	8.34380 AU
morning rise	9481 Aug 27 13:49	28° $\mathfrak{Q}$ 16'08		direct	9487 Jun 30 17:03	4° $\mathfrak{M}$ 00'15	
	9481 Sep 11 07:21	0° $\mathfrak{M}$		evening set	9487 Oct 12 00:48	11° $\mathfrak{M}$ 48'45	
retrograde	9481 Dec 10 17:05	5° $\mathfrak{M}$ 58'24		conjunction	9487 Oct 29 20:57	14° $\mathfrak{M}$ 02'34	1°24'07
opposition	9482 Feb 18 06:18	2° $\mathfrak{M}$ 32'50	-1°02'34	minimum elong	9487 Oct 29 20:55	14° $\mathfrak{M}$ 02'34	1°24'20
min. Earth dist.	9482 Feb 17 23:55	2° $\mathfrak{M}$ 34'05	8.55067 AU	max. Earth dist.	9487 Oct 29 18:34	14° $\mathfrak{M}$ 01'49	10.33131 AU
	9482 Mar 27 06:23	30° $\mathfrak{R}$ $\mathfrak{Q}$			9487 Nov 06 11:38	15° $\mathfrak{M}$	
direct	9482 Apr 27 02:05	29° $\mathfrak{Q}$ 10'59		morning rise	9487 Nov 16 17:50	16° $\mathfrak{M}$ 16'38	
	9482 May 27 13:25	0° $\mathfrak{M}$		retrograde	9488 Feb 29 00:05	24° $\mathfrak{M}$ 10'05	
evening set	9482 Aug 05 20:05	6° $\mathfrak{M}$ 37'42		opposition	9488 May 06 15:24	20° $\mathfrak{M}$ 44'04	1°55'23
conjunction	9482 Aug 23 06:03	8° $\mathfrak{M}$ 46'03	-0°38'52	min. Earth dist.	9488 May 06 17:56	20° $\mathfrak{M}$ 43'33	8.32254 AU
minimum elong	9482 Aug 23 06:04	8° $\mathfrak{M}$ 46'03	0°39'01	direct	9488 Jul 13 06:05	17° $\mathfrak{M}$ 17'51	
max. Earth dist.	9482 Aug 23 12:49	8° $\mathfrak{M}$ 48'08	10.52578 AU	evening set	9488 Oct 25 04:24	25° $\mathfrak{M}$ 10'11	
morning rise	9482 Sep 09 19:47	10° $\mathfrak{M}$ 55'31		conjunction	9488 Nov 12 00:33	27° $\mathfrak{M}$ 24'18	1°40'36
retrograde	9482 Dec 24 01:01	18° $\mathfrak{M}$ 40'54		minimum elong	9488 Nov 12 00:31	27° $\mathfrak{M}$ 24'17	1°40'53
opposition	9483 Mar 03 07:21	15° $\mathfrak{M}$ 14'56	-0°32'16	max. Earth dist.	9488 Nov 11 19:37	27° $\mathfrak{M}$ 22'44	10.31440 AU
min. Earth dist.	9483 Mar 03 02:10	15° $\mathfrak{M}$ 15'57	8.50114 AU	morning rise	9488 Nov 29 20:36	29° $\mathfrak{M}$ 38'23	
direct	9483 May 09 22:35	11° $\mathfrak{M}$ 52'26			9488 Dec 02 18:53	0° $\mathfrak{A}$	
evening set	9483 Aug 19 00:33	19° $\mathfrak{M}$ 23'09		retrograde	9489 Mar 13 16:34	7° $\mathfrak{A}$ 31'16	
				opposition	9489 May 20 02:12	4° $\mathfrak{A}$ 05'42	2°12'38





























































































































min. Earth dist.	9489 May 20 06:18	4° $\mathbb{A}$ 04'53	8.31111 AU	min. Earth dist.	9495 Aug 07 21:53	23° $\approx$ 17'40	8.47130 AU
direct	9489 Jul 26 21:28	0° $\mathbb{A}$ 38'56		direct	9495 Oct 16 07:03	19° $\approx$ 52'20	
evening set	9489 Nov 08 09:26	8° $\mathbb{A}$ 34'15		evening set	9496 Jan 29 11:21	27° $\approx$ 39'32	
conjunction	9489 Nov 26 05:00	10° $\mathbb{A}$ 48'21	1°51'42	conjunction	9496 Feb 15 20:42	29° $\approx$ 48'29	0°55'51
minimum elong	9489 Nov 26 04:59	10° $\mathbb{A}$ 48'20	1°52'01	minimum elong	9496 Feb 15 20:44	29° $\approx$ 48'30	0°56'02
max. Earth dist.	9489 Nov 25 22:35	10° $\mathbb{A}$ 46'19	10.30827 AU	max. Earth dist.	9496 Feb 15 13:27	29° $\approx$ 46'14	10.49672 AU
morning rise	9489 Dec 13 23:30	13° $\mathbb{A}$ 02'08			9496 Feb 17 09:40	0° $\mathbb{H}$	
retrograde	9490 Mar 27 07:35	20° $\mathbb{A}$ 53'33		morning rise	9496 Mar 04 02:33	1° $\mathbb{H}$ 56'25	
opposition	9490 Jun 02 13:42	17° $\mathbb{A}$ 28'31	2°22'43	retrograde	9496 Jun 12 22:24	9° $\mathbb{H}$ 25'53	
min. Earth dist.	9490 Jun 02 18:27	17° $\mathbb{A}$ 27'33	8.31111 AU	opposition	9496 Aug 19 20:55	6° $\mathbb{H}$ 04'30	0°54'42
direct	9490 Aug 09 15:22	14° $\mathbb{A}$ 01'21		min. Earth dist.	9496 Aug 20 01:47	6° $\mathbb{H}$ 03'33	8.52314 AU
evening set	9490 Nov 22 14:14	21° $\mathbb{A}$ 58'29		direct	9496 Oct 28 17:25	2° $\mathbb{H}$ 38'39	
				evening set	9497 Feb 10 14:34	10° $\mathbb{H}$ 21'22	
conjunction	9490 Dec 10 08:48	24° $\mathbb{A}$ 12'15	1°56'45	conjunction	9497 Feb 27 21:34	12° $\mathbb{H}$ 29'00	0°31'52
minimum elong	9490 Dec 10 08:47	24° $\mathbb{A}$ 12'14	1°57'05	minimum elong	9497 Feb 27 21:35	12° $\mathbb{H}$ 29'01	0°31'58
max. Earth dist.	9490 Dec 10 01:48	24° $\mathbb{A}$ 10'02	10.31419 AU	max. Earth dist.	9497 Feb 27 16:04	12° $\mathbb{H}$ 27'18	10.54962 AU
morning rise	9490 Dec 28 01:23	26° $\mathbb{A}$ 25'29		morning rise	9497 Mar 17 01:03	14° $\mathbb{H}$ 35'39	
	9491 Jan 27 20:51	0° $\mathbb{B}$		retrograde	9497 Jun 25 18:00	22° $\mathbb{H}$ 01'36	
retrograde	9491 Apr 09 21:09	4° $\mathbb{B}$ 14'29		opposition	9497 Sep 02 00:08	18° $\mathbb{H}$ 40'40	0°24'03
opposition	9491 Jun 16 01:28	0° $\mathbb{B}$ 50'03	2°25'05	min. Earth dist.	9497 Sep 02 03:55	18° $\mathbb{H}$ 39'56	8.57600 AU
min. Earth dist.	9491 Jun 16 06:49	0° $\mathbb{B}$ 48'58	8.32318 AU	direct	9497 Nov 11 00:46	15° $\mathbb{H}$ 15'37	
	9491 Jun 26 13:21	30° $\mathbb{R}$ $\mathbb{A}$		evening set	9498 Feb 23 12:21	22° $\mathbb{H}$ 53'42	
direct	9491 Aug 23 10:07	27° $\mathbb{A}$ 22'39					
	9491 Oct 18 15:40	0° $\mathbb{B}$		conjunction	9498 Mar 12 16:45	24° $\mathbb{H}$ 59'58	0°06'38
evening set	9491 Dec 06 17:10	5° $\mathbb{B}$ 20'12		minimum elong	9498 Mar 12 16:46	24° $\mathbb{H}$ 59'59	0°06'41
conjunction	9491 Dec 24 10:23	7° $\mathbb{B}$ 33'24	1°55'30	behind sun begin	9498 Mar 12 10:07	24° $\mathbb{H}$ 57'57	
minimum elong	9491 Dec 24 10:24	7° $\mathbb{B}$ 33'24	1°55'51	behind sun end	9498 Mar 12 23:24	25° $\mathbb{H}$ 02'00	
max. Earth dist.	9491 Dec 24 02:42	7° $\mathbb{B}$ 30'58	10.33222 AU	max. Earth dist.	9498 Mar 12 12:40	24° $\mathbb{H}$ 58'44	10.60214 AU
morning rise	9492 Jan 11 00:54	9° $\mathbb{B}$ 45'51		morning rise	9498 Mar 29 18:02	27° $\mathbb{H}$ 05'22	
retrograde	9492 Apr 22 09:11	17° $\mathbb{B}$ 31'36			9498 Apr 24 03:53	0° $\mathbb{Y}$	
opposition	9492 Jun 28 12:56	14° $\mathbb{B}$ 07'49	2°19'39	desc. node	9498 Jun 18 13:38	4° $\mathbb{Y}$ 07'47	
min. Earth dist.	9492 Jun 28 19:08	14° $\mathbb{B}$ 06'35	8.34680 AU	retrograde	9498 Jul 08 11:02	4° $\mathbb{Y}$ 28'30	
direct	9492 Sep 05 04:02	10° $\mathbb{B}$ 40'21		opposition	9498 Sep 15 01:18	1° $\mathbb{Y}$ 07'56	-0°07'23
evening set	9492 Dec 19 17:03	18° $\mathbb{B}$ 36'59		min. Earth dist.	9498 Sep 15 04:26	1° $\mathbb{Y}$ 07'20	8.62740 AU
					9498 Sep 30 02:08	30° $\mathbb{R}$ $\mathbb{H}$	
conjunction	9493 Jan 06 08:33	20° $\mathbb{B}$ 49'23	1°48'07	direct	9498 Nov 24 04:56	27° $\mathbb{H}$ 43'44	
minimum elong	9493 Jan 06 08:34	20° $\mathbb{B}$ 49'23	1°48'26		9499 Jan 16 11:24	0° $\mathbb{Y}$	
max. Earth dist.	9493 Jan 06 00:03	20° $\mathbb{B}$ 46'42	10.36137 AU	evening set	9499 Mar 08 05:25	5° $\mathbb{Y}$ 17'19	
morning rise	9493 Jan 23 20:55	23° $\mathbb{B}$ 00'52					
	9493 Apr 07 13:57	0° $\approx$		conjunction	9499 Mar 25 07:10	7° $\mathbb{Y}$ 22'16	-0°18'47
retrograde	9493 May 05 17:56	0° $\approx$ 42'42		minimum elong	9499 Mar 25 07:09	7° $\mathbb{Y}$ 22'16	0°18'48
	9493 Jun 03 02:51	30° $\mathbb{R}$ $\mathbb{B}$		max. Earth dist.	9499 Mar 25 03:48	7° $\mathbb{Y}$ 21'14	10.65183 AU
opposition	9493 Jul 11 23:25	27° $\mathbb{B}$ 19'37	2°06'51	morning rise	9499 Apr 11 06:26	9° $\mathbb{Y}$ 26'29	
min. Earth dist.	9493 Jul 12 06:24	27° $\mathbb{B}$ 18'14	8.38068 AU	retrograde	9499 Jul 21 01:58	16° $\mathbb{Y}$ 47'30	
direct	9493 Sep 18 22:16	23° $\mathbb{B}$ 52'16		opposition	9499 Sep 28 00:17	13° $\mathbb{Y}$ 27'12	-0°38'06
	9493 Dec 18 16:03	0° $\approx$		min. Earth dist.	9499 Sep 28 02:17	13° $\mathbb{Y}$ 26'49	8.67489 AU
evening set	9494 Jan 02 12:30	1° $\approx$ 46'44		direct	9499 Dec 07 05:14	10° $\mathbb{Y}$ 03'55	
				evening set	9500 Mar 20 18:10	17° $\mathbb{Y}$ 33'16	
conjunction	9494 Jan 20 02:03	3° $\approx$ 58'07	1°35'07				
minimum elong	9494 Jan 20 02:05	3° $\approx$ 58'08	1°35'24	conjunction	9500 Apr 06 17:25	19° $\mathbb{Y}$ 37'00	-0°43'01
max. Earth dist.	9494 Jan 19 17:00	3° $\approx$ 55'17	10.40001 AU	minimum elong	9500 Apr 06 17:24	19° $\mathbb{Y}$ 37'00	0°43'05
morning rise	9494 Feb 06 12:20	6° $\approx$ 08'31		max. Earth dist.	9500 Apr 06 15:35	19° $\mathbb{Y}$ 36'27	10.69634 AU
retrograde	9494 May 18 21:54	13° $\approx$ 46'09		morning rise	9500 Apr 23 14:47	21° $\mathbb{Y}$ 40'11	
opposition	9494 Jul 25 08:33	10° $\approx$ 23'42	1°47'35	retrograde	9500 Aug 02 14:37	28° $\mathbb{Y}$ 59'55	
min. Earth dist.	9494 Jul 25 15:34	10° $\approx$ 22'19	8.42297 AU	opposition	9500 Oct 10 21:43	25° $\mathbb{Y}$ 39'45	-1°06'47
direct	9494 Oct 02 15:56	6° $\approx$ 56'41		min. Earth dist.	9500 Oct 10 21:48	25° $\mathbb{Y}$ 39'44	8.71625 AU
evening set	9495 Jan 16 02:36	14° $\approx$ 47'53		direct	9500 Dec 20 03:30	22° $\mathbb{Y}$ 17'22	
	9495 Jan 17 18:11	15° $\approx$		evening set	9501 Apr 02 03:09	29° $\mathbb{Y}$ 42'54	
					9501 Apr 04 12:19	0° $\mathbb{B}$	
conjunction	9495 Feb 02 14:07	16° $\approx$ 58'06	1°17'20	conjunction	9501 Apr 19 00:14	1° $\mathbb{B}$ 45'34	-1°05'07
minimum elong	9495 Feb 02 14:09	16° $\approx$ 58'07	1°17'35	minimum elong	9501 Apr 19 00:12	1° $\mathbb{B}$ 45'33	1°05'16
max. Earth dist.	9495 Feb 02 05:27	16° $\approx$ 55'24	10.44599 AU	max. Earth dist.	9501 Apr 19 00:53	1° $\mathbb{B}$ 45'46	10.73367 AU
morning rise	9495 Feb 19 22:16	19° $\approx$ 07'19		morning rise	9501 May 05 19:53	3° $\mathbb{B}$ 47'50	
retrograde	9495 May 31 22:51	26° $\approx$ 40'45		retrograde	9501 Aug 15 04:25	11° $\mathbb{B}$ 07'09	
opposition	9495 Aug 07 15:47	23° $\approx$ 18'52	1°23'04				

opposition	9501 Oct 23 17:44	7° <del>8</del> 46'58 -1°32'15	direct	9508 Mar 15 23:49	16° <del>5</del> 45'41
min. Earth dist.	9501 Oct 23 15:41	7° <del>8</del> 47'21 8.74967 AU	evening set	9508 Jun 24 10:36	24° <del>5</del> 02'21
direct	9502 Jan 01 22:11	4° <del>8</del> 25'27			
evening set	9502 Apr 14 09:25	11° <del>8</del> 47'40	conjunction	9508 Jul 11 08:47	26° <del>5</del> 05'20 -1°44'05
			minimum elong	9508 Jul 11 08:49	26° <del>5</del> 05'20 1°44'24
conjunction	9502 May 01 04:40	13° <del>8</del> 49'29 -1°24'13	max. Earth dist.	9508 Jul 11 15:58	26° <del>5</del> 07'31 10.71253 AU
minimum elong	9502 May 01 04:38	13° <del>8</del> 49'28 1°24'25	morning rise	9508 Jul 28 10:14	28° <del>5</del> 09'16
max. Earth dist.	9502 May 01 07:31	13° <del>8</del> 50'21 10.76226 AU		9508 Aug 13 08:04	0° <del>9</del>
	9502 May 10 20:52	15° <del>8</del>	retrograde	9508 Nov 09 21:29	5° <del>9</del> 42'13
morning rise	9502 May 17 23:03	15° <del>8</del> 51'05	opposition	9509 Jan 19 00:15	2° <del>9</del> 18'50 -2°00'01
retrograde	9502 Aug 27 18:03	23° <del>8</del> 10'39	min. Earth dist.	9509 Jan 18 18:12	2° <del>9</del> 20'00 8.69213 AU
opposition	9502 Nov 05 12:29	19° <del>8</del> 50'21 -1°53'28		9509 Feb 21 09:50	30° <del>8</del>
min. Earth dist.	9502 Nov 05 09:16	19° <del>8</del> 50'58 8.77381 AU	direct	9509 Mar 28 11:31	28° <del>5</del> 58'50
direct	9503 Jan 14 12:25	16° <del>8</del> 29'34		9509 May 01 22:37	0° <del>9</del>
evening set	9503 Apr 26 13:43	23° <del>8</del> 49'07	evening set	9509 Jul 06 21:06	6° <del>9</del> 17'20
conjunction	9503 May 13 07:32	25° <del>8</del> 50'19 -1°39'31	conjunction	9509 Jul 23 22:23	8° <del>9</del> 21'38 -1°30'01
minimum elong	9503 May 13 07:30	25° <del>8</del> 50'18 1°39'47	minimum elong	9509 Jul 23 22:26	8° <del>9</del> 21'39 1°30'17
max. Earth dist.	9503 May 13 11:24	25° <del>8</del> 51'29 10.78105 AU	max. Earth dist.	9509 Jul 24 05:18	8° <del>9</del> 23'45 10.66793 AU
morning rise	9503 May 30 01:23	27° <del>8</del> 51'33	morning rise	9509 Aug 10 03:17	10° <del>9</del> 26'59
	9503 Jun 17 17:03	0° <del>9</del>		9509 Sep 21 08:46	15° <del>9</del>
retrograde	9503 Sep 09 05:58	5° <del>9</del> 12'04	retrograde	9509 Nov 22 20:59	18° <del>9</del> 03'26
opposition	9503 Nov 18 06:36	1° <del>9</del> 51'32 -2°09'39		9510 Jan 27 09:07	15° <del>9</del>
min. Earth dist.	9503 Nov 18 02:38	1° <del>9</del> 52'17 8.78769 AU	opposition	9510 Jan 31 20:36	14° <del>9</del> 39'18 -1°40'00
	9503 Dec 14 11:15	30° <del>8</del>	min. Earth dist.	9510 Jan 31 14:50	14° <del>9</del> 40'24 8.64361 AU
direct	9504 Jan 27 02:16	28° <del>8</del> 31'19	direct	9510 Apr 10 02:36	11° <del>9</del> 18'46
	9504 Mar 09 12:57	0° <del>9</del>		9510 Jun 16 14:58	15° <del>9</del>
evening set	9504 May 07 16:44	5° <del>9</del> 48'52	evening set	9510 Jul 19 11:58	18° <del>9</del> 39'50
conjunction	9504 May 24 09:47	7° <del>9</del> 49'45 -1°50'26	conjunction	9510 Aug 05 16:46	20° <del>9</del> 45'40 -1°11'38
minimum elong	9504 May 24 09:45	7° <del>9</del> 49'44 1°50'45	minimum elong	9510 Aug 05 16:48	20° <del>9</del> 45'40 1°11'52
max. Earth dist.	9504 May 24 14:33	7° <del>9</del> 51'11 10.78931 AU	max. Earth dist.	9510 Aug 05 23:50	20° <del>9</del> 47'50 10.61688 AU
morning rise	9504 Jun 10 03:44	9° <del>9</del> 50'52	morning rise	9510 Aug 23 01:10	22° <del>9</del> 52'34
retrograde	9504 Sep 20 19:46	17° <del>9</del> 12'59		9510 Nov 10 15:19	0° <del>9</del>
opposition	9504 Nov 30 00:15	13° <del>9</del> 52'04 -2°20'09	retrograde	9510 Dec 06 01:25	0° <del>9</del> 32'32
min. Earth dist.	9504 Nov 29 19:19	13° <del>9</del> 53'00 8.79075 AU		9510 Dec 31 15:04	30° <del>8</del>
direct	9505 Feb 07 15:22	10° <del>9</del> 32'17	opposition	9511 Feb 13 18:20	27° <del>9</del> 07'38 -1°15'05
evening set	9505 May 19 19:25	17° <del>9</del> 48'29	min. Earth dist.	9511 Feb 13 12:37	27° <del>9</del> 08'45 8.59008 AU
			direct	9511 Apr 22 18:05	23° <del>9</del> 46'25
conjunction	9505 Jun 05 12:37	19° <del>9</del> 49'23 -1°56'32		9511 Jul 22 09:32	0° <del>9</del>
minimum elong	9505 Jun 05 12:36	19° <del>9</del> 49'23 1°56'52	evening set	9511 Aug 01 07:49	1° <del>9</del> 10'44
max. Earth dist.	9505 Jun 05 19:03	19° <del>9</del> 51'20 10.78671 AU			
morning rise	9505 Jun 22 07:19	21° <del>9</del> 50'43	conjunction	9511 Aug 18 16:13	3° <del>9</del> 18'11 -0°49'41
retrograde	9505 Oct 03 10:56	29° <del>9</del> 14'57	minimum elong	9511 Aug 18 16:14	3° <del>9</del> 18'11 0°49'52
opposition	9505 Dec 12 17:33	25° <del>9</del> 53'31 -2°24'33	max. Earth dist.	9511 Aug 18 23:06	3° <del>9</del> 20'18 10.56222 AU
min. Earth dist.	9505 Dec 12 11:11	25° <del>9</del> 54'43 8.78274 AU	morning rise	9511 Sep 05 04:06	5° <del>9</del> 26'43
direct	9506 Feb 20 02:29	22° <del>9</del> 34'00	retrograde	9511 Dec 19 08:19	13° <del>9</del> 10'04
evening set	9506 May 31 22:37	29° <del>9</del> 49'33	opposition	9512 Feb 26 17:59	9° <del>9</del> 44'28 -0°46'16
	9506 Jun 02 09:44	0° <del>9</del>	min. Earth dist.	9512 Feb 26 12:35	9° <del>9</del> 45'31 8.53443 AU
conjunction	9506 Jun 17 16:50	1° <del>9</del> 50'49 -1°57'33	direct	9512 May 04 11:57	6° <del>9</del> 22'26
minimum elong	9506 Jun 17 16:51	1° <del>9</del> 50'49 1°57'53	evening set	9512 Aug 13 09:08	13° <del>9</del> 50'38
max. Earth dist.	9506 Jun 18 00:49	1° <del>9</del> 53'14 10.77301 AU			
morning rise	9506 Jul 04 13:00	3° <del>9</del> 52'41	conjunction	9512 Aug 30 20:54	15° <del>9</del> 59'41 -0°25'06
retrograde	9506 Oct 16 04:03	11° <del>9</del> 19'27	minimum elong	9512 Aug 30 20:55	15° <del>9</del> 59'41 0°25'13
opposition	9506 Dec 25 11:03	7° <del>9</del> 57'25 -2°22'38	max. Earth dist.	9512 Aug 31 02:23	16° <del>9</del> 01'22 10.50676 AU
min. Earth dist.	9506 Dec 25 03:52	7° <del>9</del> 58'47 8.76340 AU	morning rise	9512 Sep 17 12:07	18° <del>9</del> 09'47
direct	9507 Mar 04 13:40	4° <del>9</del> 37'57	retrograde	9512 Dec 31 17:26	25° <del>9</del> 56'17
evening set	9507 Jun 13 03:23	11° <del>9</del> 53'37	opposition	9513 Mar 10 19:33	22° <del>9</del> 30'06 -0°14'48
			min. Earth dist.	9513 Mar 10 15:33	22° <del>9</del> 30'54 8.47941 AU
conjunction	9507 Jun 29 23:13	13° <del>9</del> 55'35 -1°53'22	direct	9513 May 17 09:33	19° <del>9</del> 07'09
minimum elong	9507 Jun 29 23:15	13° <del>9</del> 55'36 1°53'41	evening set	9513 Aug 26 16:26	26° <del>9</del> 39'46
max. Earth dist.	9507 Jun 30 07:21	13° <del>9</del> 58'04 10.74812 AU	asc. node	9513 Aug 29 18:46	27° <del>9</del> 02'28
morning rise	9507 Jul 16 21:38	15° <del>9</del> 58'20			
retrograde	9507 Oct 29 00:17	23° <del>9</del> 28'01	conjunction	9513 Sep 13 07:12	28° <del>9</del> 50'20 0°01'02
opposition	9508 Jan 07 05:08	20° <del>9</del> 05'20 -2°14'23	minimum elong	9513 Sep 13 07:11	28° <del>9</del> 50'19 0°01'00
min. Earth dist.	9508 Jan 06 22:13	20° <del>9</del> 06'39 8.73283 AU	behind sun begin	9513 Sep 12 23:57	28° <del>9</del> 48'06
			behind sun end	9513 Sep 13 14:25	28° <del>9</del> 52'33




























































































































max. Earth dist.	9513 Sep 13 10:37	28° $\mathbb{M}$ 51'20	10.45313 AU	conjunction	9519 Dec 05 05:34	18° $\mathbb{X}$ 18'44	1°55'12
	9513 Sep 22 15:41	0° $\mathbb{A}$		minimum elong	9519 Dec 05 05:33	18° $\mathbb{X}$ 18'44	1°55'32
morning rise	9513 Oct 01 01:10	1° $\mathbb{A}$ 01'51		max. Earth dist.	9519 Dec 04 22:55	18° $\mathbb{X}$ 16'39	10.29756 AU
retrograde	9514 Jan 14 05:09	8° $\mathbb{A}$ 51'05		morning rise	9519 Dec 22 23:13	20° $\mathbb{X}$ 32'24	
opposition	9514 Mar 23 22:59	5° $\mathbb{A}$ 24'30	0°17'48	retrograde	9520 Apr 04 00:32	28° $\mathbb{X}$ 22'55	
min. Earth dist.	9514 Mar 23 20:41	5° $\mathbb{A}$ 24'57	8.42770 AU	opposition	9520 Jun 10 06:05	24° $\mathbb{X}$ 57'43	2°24'59
direct	9514 May 30 10:12	2° $\mathbb{A}$ 00'35		min. Earth dist.	9520 Jun 10 11:25	24° $\mathbb{X}$ 56'38	8.30510 AU
evening set	9514 Sep 09 05:23	9° $\mathbb{A}$ 37'56		direct	9520 Aug 17 11:25	21° $\mathbb{X}$ 29'56	
				evening set	9520 Nov 30 14:37	29° $\mathbb{X}$ 27'44	
conjunction	9514 Sep 26 22:38	11° $\mathbb{A}$ 49'49	0°27'20		9520 Dec 04 22:32	0° $\mathbb{B}$	
minimum elong	9514 Sep 26 22:37	11° $\mathbb{A}$ 49'49	0°27'22				
max. Earth dist.	9514 Sep 27 00:18	11° $\mathbb{A}$ 50'21	10.40391 AU	conjunction	9520 Dec 18 08:26	1° $\mathbb{B}$ 41'19	1°56'49
morning rise	9514 Oct 14 18:35	14° $\mathbb{A}$ 02'32		minimum elong	9520 Dec 18 08:26	1° $\mathbb{B}$ 41'19	1°57'10
retrograde	9515 Jan 27 18:26	21° $\mathbb{A}$ 54'00		max. Earth dist.	9520 Dec 18 00:42	1° $\mathbb{B}$ 38'53	10.31286 AU
opposition	9515 Apr 06 04:28	18° $\mathbb{A}$ 27'09	0°49'51	morning rise	9521 Jan 05 00:10	3° $\mathbb{B}$ 54'17	
min. Earth dist.	9515 Apr 06 03:32	18° $\mathbb{A}$ 27'21	8.38181 AU	retrograde	9521 Apr 17 13:07	11° $\mathbb{B}$ 41'53	
direct	9515 Jun 12 15:15	15° $\mathbb{A}$ 02'18		opposition	9521 Jun 23 17:50	8° $\mathbb{B}$ 17'30	2°23'04
evening set	9515 Sep 22 23:30	22° $\mathbb{A}$ 44'28		min. Earth dist.	9521 Jun 23 23:29	8° $\mathbb{B}$ 16'22	8.32645 AU
				direct	9521 Aug 31 06:13	4° $\mathbb{B}$ 49'47	
conjunction	9515 Oct 10 18:37	24° $\mathbb{A}$ 57'26	0°52'27	evening set	9521 Dec 14 16:06	12° $\mathbb{B}$ 47'17	
minimum elong	9515 Oct 10 18:35	24° $\mathbb{A}$ 57'25	0°52'34				
max. Earth dist.	9515 Oct 10 19:05	24° $\mathbb{A}$ 57'35	10.36155 AU	conjunction	9522 Jan 01 08:25	15° $\mathbb{B}$ 00'10	1°52'11
morning rise	9515 Oct 28 15:36	27° $\mathbb{A}$ 11'01		minimum elong	9522 Jan 01 08:26	15° $\mathbb{B}$ 00'10	1°52'31
	9515 Nov 21 15:42	0° $\mathbb{M}$		max. Earth dist.	9522 Jan 01 00:43	14° $\mathbb{B}$ 57'44	10.34011 AU
retrograde	9516 Feb 10 09:01	5° $\mathbb{M}$ 04'05		morning rise	9522 Jan 18 21:59	17° $\mathbb{B}$ 12'13	
opposition	9516 Apr 18 11:47	1° $\mathbb{M}$ 37'09	1°19'37	retrograde	9522 Apr 30 23:49	24° $\mathbb{B}$ 56'16	
min. Earth dist.	9516 Apr 18 11:43	1° $\mathbb{M}$ 37'10	8.34400 AU	opposition	9522 Jul 07 05:00	21° $\mathbb{B}$ 32'44	2°13'31
	9516 May 09 11:03	30° $\mathbb{R}$ $\mathbb{A}$		min. Earth dist.	9522 Jul 07 10:30	21° $\mathbb{B}$ 31'38	8.35895 AU
direct	9516 Jun 24 23:54	28° $\mathbb{A}$ 11'26		direct	9522 Sep 14 00:47	18° $\mathbb{B}$ 05'17	
	9516 Aug 09 15:23	0° $\mathbb{M}$		evening set	9522 Dec 28 13:55	26° $\mathbb{B}$ 01'11	
evening set	9516 Oct 05 22:27	5° $\mathbb{M}$ 58'14					
conjunction	9516 Oct 23 18:40	8° $\mathbb{M}$ 11'59	1°15'00	conjunction	9523 Jan 15 04:33	28° $\mathbb{B}$ 13'08	1°41'38
minimum elong	9516 Oct 23 18:37	8° $\mathbb{M}$ 11'58	1°15'11	minimum elong	9523 Jan 15 04:35	28° $\mathbb{B}$ 13'09	1°41'57
max. Earth dist.	9516 Oct 23 17:52	8° $\mathbb{M}$ 11'44	10.32816 AU	max. Earth dist.	9523 Jan 14 21:18	28° $\mathbb{B}$ 10'52	10.37787 AU
morning rise	9516 Nov 10 15:45	10° $\mathbb{M}$ 26'04			9523 Jan 29 09:44	0° $\mathbb{A}$	
	9516 Dec 21 10:10	15° $\mathbb{M}$		morning rise	9523 Feb 01 15:51	0° $\mathbb{A}$ 24'08	
retrograde	9517 Feb 23 01:27	18° $\mathbb{M}$ 19'55		retrograde	9523 May 14 06:54	8° $\mathbb{A}$ 04'08	
	9517 Apr 30 10:26	15° $\mathbb{R}$ $\mathbb{M}$		opposition	9523 Jul 20 15:02	4° $\mathbb{A}$ 41'28	1°57'02
opposition	9517 May 01 20:36	14° $\mathbb{M}$ 53'06	1°45'23	min. Earth dist.	9523 Jul 20 20:25	4° $\mathbb{A}$ 40'24	8.40090 AU
min. Earth dist.	9517 May 01 21:35	14° $\mathbb{M}$ 52'54	8.31617 AU	direct	9523 Sep 27 18:22	1° $\mathbb{A}$ 14'28	
direct	9517 Jul 08 10:31	11° $\mathbb{M}$ 26'36		evening set	9524 Jan 11 07:08	9° $\mathbb{A}$ 07'36	
	9517 Sep 12 02:43	15° $\mathbb{M}$					
evening set	9517 Oct 20 00:58	19° $\mathbb{M}$ 17'35		conjunction	9524 Jan 28 19:49	11° $\mathbb{A}$ 18'28	1°25'53
				minimum elong	9524 Jan 28 19:51	11° $\mathbb{A}$ 18'28	1°26'09
conjunction	9517 Nov 06 21:25	21° $\mathbb{M}$ 31'47	1°33'39	max. Earth dist.	9524 Jan 28 12:59	11° $\mathbb{A}$ 16'19	10.42404 AU
minimum elong	9517 Nov 06 21:22	21° $\mathbb{M}$ 31'46	1°33'55	morning rise	9524 Feb 15 04:52	13° $\mathbb{A}$ 28'16	
max. Earth dist.	9517 Nov 06 18:45	21° $\mathbb{M}$ 30'56	10.30555 AU		9524 Feb 27 22:19	15° $\mathbb{A}$	
morning rise	9517 Nov 24 17:51	23° $\mathbb{M}$ 46'02		retrograde	9524 May 26 11:28	21° $\mathbb{A}$ 04'01	
	9518 Jan 24 00:08	0° $\mathbb{X}$		opposition	9524 Aug 01 23:41	17° $\mathbb{A}$ 42'09	1°34'41
retrograde	9518 Mar 08 19:08	1° $\mathbb{X}$ 39'43		min. Earth dist.	9524 Aug 02 05:19	17° $\mathbb{A}$ 41'03	8.44997 AU
	9518 Apr 22 03:02	30° $\mathbb{R}$ $\mathbb{M}$			9524 Sep 10 16:41	15° $\mathbb{R}$ $\mathbb{A}$	
opposition	9518 May 15 06:59	28° $\mathbb{M}$ 13'16	2°05'36	direct	9524 Oct 10 09:33	14° $\mathbb{A}$ 15'45	
min. Earth dist.	9518 May 15 09:27	28° $\mathbb{M}$ 12'46	8.29984 AU		9524 Nov 08 21:55	15° $\mathbb{A}$	
direct	9518 Jul 21 23:33	24° $\mathbb{M}$ 46'08		evening set	9525 Jan 23 19:06	22° $\mathbb{A}$ 05'12	
	9518 Oct 11 16:03	0° $\mathbb{X}$					
evening set	9518 Nov 03 05:25	2° $\mathbb{X}$ 40'30		conjunction	9525 Feb 10 05:30	24° $\mathbb{A}$ 14'48	1°05'56
				minimum elong	9525 Feb 10 05:32	24° $\mathbb{A}$ 14'49	1°06'08
conjunction	9518 Nov 21 01:24	4° $\mathbb{X}$ 54'46	1°47'20	max. Earth dist.	9525 Feb 09 22:38	24° $\mathbb{A}$ 12'40	10.47602 AU
minimum elong	9518 Nov 21 01:22	4° $\mathbb{X}$ 54'46	1°47'38	morning rise	9525 Feb 27 12:20	26° $\mathbb{A}$ 23'21	
max. Earth dist.	9518 Nov 20 20:43	4° $\mathbb{X}$ 53'18	10.29509 AU		9525 Mar 31 05:24	0° $\mathbb{H}$	
morning rise	9518 Dec 08 20:38	7° $\mathbb{X}$ 08'53		retrograde	9525 Jun 08 12:35	3° $\mathbb{H}$ 54'54	
retrograde	9519 Mar 22 10:43	15° $\mathbb{X}$ 01'27		opposition	9525 Aug 15 06:27	0° $\mathbb{H}$ 33'45	1°07'51
opposition	9519 May 28 18:23	11° $\mathbb{X}$ 35'33	2°19'04	min. Earth dist.	9525 Aug 15 11:59	0° $\mathbb{H}$ 32'40	8.50354 AU
min. Earth dist.	9519 May 28 22:27	11° $\mathbb{X}$ 34'43	8.29605 AU		9525 Aug 22 12:11	30° $\mathbb{R}$ $\mathbb{A}$	
direct	9519 Aug 04 16:46	8° $\mathbb{X}$ 07'59		direct	9525 Oct 23 21:57	27° $\mathbb{A}$ 08'03	
					9525 Dec 22 22:07	0° $\mathbb{H}$	
evening set	9519 Nov 17 10:31	16° $\mathbb{X}$ 04'41		evening set	9526 Feb 06 01:28	4° $\mathbb{H}$ 53'09	

conjunction	9526 Feb 23 09:26	7° $\text{X}$ 01'24	0°42'54			9532 Mar 16 21:41	15° $\text{B}$
minimum elong	9526 Feb 23 09:28	7° $\text{X}$ 01'25	0°43'03	evening set		9532 Apr 20 14:28	18° $\text{B}$ 48'24
max. Earth dist.	9526 Feb 23 02:53	6° $\text{X}$ 59'23	10.53098 AU				
morning rise	9526 Mar 12 14:06	9° $\text{X}$ 08'40		conjunction		9532 May 07 08:55	20° $\text{B}$ 50'02 -1°33'13
retrograde	9526 Jun 21 08:12	16° $\text{X}$ 36'23		minimum elong		9532 May 07 08:53	20° $\text{B}$ 50'02 1°33'29
opposition	9526 Aug 28 11:01	13° $\text{X}$ 15'47	0°38'02	max. Earth dist.		9532 May 07 10:30	20° $\text{B}$ 50'31 10.76058 AU
min. Earth dist.	9526 Aug 28 15:45	13° $\text{X}$ 14'52	8.55855 AU	morning rise		9532 May 24 03:04	22° $\text{B}$ 51'37
direct	9526 Nov 06 09:09	9° $\text{X}$ 50'51				9532 Aug 18 10:20	0° $\text{II}$
evening set	9527 Feb 19 02:11	17° $\text{X}$ 31'17		retrograde		9532 Sep 03 02:46	0° $\text{II}$ 12'31
						9532 Sep 18 23:23	30° $\text{R}$ $\text{B}$
conjunction	9527 Mar 08 07:43	19° $\text{X}$ 38'10	0°18'03	opposition		9532 Nov 12 01:07	26° $\text{B}$ 51'53 -2°03'11
minimum elong	9527 Mar 08 07:44	19° $\text{X}$ 38'10	0°18'08	min. Earth dist.		9532 Nov 11 22:20	26° $\text{B}$ 52'24 8.76666 AU
max. Earth dist.	9527 Mar 08 02:11	19° $\text{X}$ 36'28	10.58553 AU	direct		9533 Jan 20 23:44	23° $\text{B}$ 31'08
morning rise	9527 Mar 25 10:10	21° $\text{X}$ 44'08				9533 Apr 25 15:12	0° $\text{II}$
retrograde	9527 Jul 04 03:02	29° $\text{X}$ 08'39		evening set		9533 May 02 18:30	0° $\text{II}$ 50'25
opposition	9527 Sep 10 13:22	25° $\text{X}$ 48'26	0°06'45				
min. Earth dist.	9527 Sep 10 16:46	25° $\text{X}$ 47'46	8.61138 AU	conjunction		9533 May 19 12:04	2° $\text{II}$ 51'40 -1°46'11
direct	9527 Nov 19 16:12	22° $\text{X}$ 24'20		minimum elong		9533 May 19 12:03	2° $\text{II}$ 51'39 1°46'29
desc. node	9527 Nov 30 05:51	22° $\text{X}$ 30'01		max. Earth dist.		9533 May 19 15:59	2° $\text{II}$ 52'51 10.76812 AU
evening set	9528 Mar 02 21:51	0° $\text{Y}$ 00'09		morning rise		9533 Jun 05 05:53	4° $\text{II}$ 53'02
	9528 Mar 02 21:20	0° $\text{Y}$		retrograde		9533 Sep 15 18:09	12° $\text{II}$ 15'22
				opposition		9533 Nov 24 19:38	8° $\text{II}$ 54'11 -2°16'19
conjunction	9528 Mar 20 00:54	2° $\text{Y}$ 05'43	-0°07'29	min. Earth dist.		9533 Nov 24 15:19	8° $\text{II}$ 55'00 8.76931 AU
minimum elong	9528 Mar 20 00:53	2° $\text{Y}$ 05'43	0°07'29	direct		9534 Feb 02 13:20	5° $\text{II}$ 33'45
behind sun begin	9528 Mar 19 18:25	2° $\text{Y}$ 03'45		evening set		9534 May 14 21:59	12° $\text{II}$ 51'26
behind sun end	9528 Mar 20 07:21	2° $\text{Y}$ 07'41					
max. Earth dist.	9528 Mar 19 21:01	2° $\text{Y}$ 04'33	10.63598 AU	conjunction		9534 May 31 15:14	14° $\text{II}$ 52'36 -1°54'28
morning rise	9528 Apr 06 01:01	4° $\text{Y}$ 10'27		minimum elong		9534 May 31 15:13	14° $\text{II}$ 52'36 1°54'48
retrograde	9528 Jul 15 20:41	11° $\text{Y}$ 32'35		max. Earth dist.		9534 May 31 20:21	14° $\text{II}$ 54'09 10.76535 AU
opposition	9528 Sep 22 13:45	8° $\text{Y}$ 12'38	-0°24'28	morning rise		9534 Jun 17 09:33	16° $\text{II}$ 54'06
min. Earth dist.	9528 Sep 22 16:08	8° $\text{Y}$ 12'10	8.65875 AU	retrograde		9534 Sep 28 08:54	24° $\text{II}$ 18'22
direct	9528 Dec 01 17:49	4° $\text{Y}$ 49'23		opposition		9534 Dec 07 13:40	20° $\text{II}$ 56'34 -2°23'29
evening set	9529 Mar 15 13:03	12° $\text{Y}$ 20'57		min. Earth dist.		9534 Dec 07 08:48	20° $\text{II}$ 57'30 8.76157 AU
				direct		9535 Feb 15 00:39	17° $\text{II}$ 36'17
conjunction	9529 Apr 01 13:33	14° $\text{Y}$ 25'17	-0°32'20	evening set		9535 May 27 01:36	24° $\text{II}$ 53'11
minimum elong	9529 Apr 01 13:32	14° $\text{Y}$ 25'16	0°32'23				
max. Earth dist.	9529 Apr 01 10:56	14° $\text{Y}$ 24'28	10.67976 AU	conjunction		9535 Jun 12 19:18	26° $\text{II}$ 54'34 -1°57'44
morning rise	9529 Apr 18 11:36	16° $\text{Y}$ 28'57		minimum elong		9535 Jun 12 19:18	26° $\text{II}$ 54'34 1°58'05
retrograde	9529 Jul 28 11:18	23° $\text{Y}$ 49'36		max. Earth dist.		9535 Jun 13 00:52	26° $\text{II}$ 56'15 10.75243 AU
opposition	9529 Oct 05 12:36	20° $\text{Y}$ 29'46	-0°54'15	morning rise		9535 Jun 29 14:57	28° $\text{II}$ 56'30
min. Earth dist.	9529 Oct 05 14:16	20° $\text{Y}$ 29'27	8.69893 AU			9535 Jul 08 15:17	0° $\text{B}$
direct	9529 Dec 14 16:27	17° $\text{Y}$ 07'19		retrograde		9535 Oct 11 00:34	6° $\text{B}$ 23'14
evening set	9530 Mar 28 00:22	24° $\text{Y}$ 35'03		opposition		9535 Dec 20 07:56	3° $\text{B}$ 00'47 -2°24'20
				min. Earth dist.		9535 Dec 20 02:32	3° $\text{B}$ 01'48 8.74374 AU
conjunction	9530 Apr 13 22:25	26° $\text{Y}$ 38'17	-0°55'32			9536 Feb 07 22:17	30° $\text{R}$ $\text{II}$
minimum elong	9530 Apr 13 22:23	26° $\text{Y}$ 38'16	0°55'39	direct		9536 Feb 27 13:03	29° $\text{II}$ 40'31
max. Earth dist.	9530 Apr 13 20:38	26° $\text{Y}$ 37'44	10.71572 AU			9536 Mar 17 23:49	0° $\text{B}$
morning rise	9530 Apr 30 18:49	28° $\text{Y}$ 41'03		evening set		9536 Jun 07 06:06	6° $\text{B}$ 57'18
	9530 May 11 23:47	0° $\text{B}$					
retrograde	9530 Aug 10 00:58	6° $\text{B}$ 01'04		conjunction		9536 Jun 24 01:13	8° $\text{B}$ 59'16 -1°55'48
opposition	9530 Oct 18 09:59	2° $\text{B}$ 41'10	-1°21'20	minimum elong		9536 Jun 24 01:13	8° $\text{B}$ 59'17 1°56'08
min. Earth dist.	9530 Oct 18 10:50	2° $\text{B}$ 41'00	8.73090 AU	max. Earth dist.		9536 Jun 24 08:04	9° $\text{B}$ 01'22 10.72983 AU
	9530 Nov 28 14:59	30° $\text{R}$ $\text{Y}$		morning rise		9536 Jul 10 22:50	11° $\text{B}$ 01'58
direct	9530 Dec 27 13:43	29° $\text{Y}$ 19'23		retrograde		9536 Oct 22 19:45	18° $\text{B}$ 31'36
	9531 Jan 25 03:01	0° $\text{B}$		opposition		9537 Jan 01 02:36	15° $\text{B}$ 08'26 -2°18'47
evening set	9531 Apr 09 08:41	6° $\text{B}$ 43'46		min. Earth dist.		9536 Dec 31 20:10	15° $\text{B}$ 09'39 8.71645 AU
				direct		9537 Mar 11 01:23	11° $\text{B}$ 48'05
conjunction	9531 Apr 26 04:38	8° $\text{B}$ 46'05	-1°16'07	evening set		9537 Jun 19 12:45	19° $\text{B}$ 05'29
minimum elong	9531 Apr 26 04:36	8° $\text{B}$ 46'05	1°16'18				
max. Earth dist.	9531 Apr 26 03:54	8° $\text{B}$ 45'52	10.74293 AU	conjunction		9537 Jul 06 10:08	21° $\text{B}$ 08'23 -1°48'40
morning rise	9531 May 12 23:43	10° $\text{B}$ 48'09		minimum elong		9537 Jul 06 10:09	21° $\text{B}$ 08'23 1°48'59
	9531 Jun 20 17:29	15° $\text{B}$		max. Earth dist.		9537 Jul 06 18:26	21° $\text{B}$ 10'55 10.69835 AU
retrograde	9531 Aug 22 13:53	18° $\text{B}$ 08'14		morning rise		9537 Jul 23 10:19	23° $\text{B}$ 12'08
	9531 Oct 28 14:35	15° $\text{R}$ $\text{B}$				9537 Oct 05 14:57	0° $\text{Q}$
opposition	9531 Oct 31 05:57	14° $\text{B}$ 48'03	-1°44'37	retrograde		9537 Nov 04 17:11	0° $\text{Q}$ 44'55
min. Earth dist.	9531 Oct 31 05:17	14° $\text{B}$ 48'11	8.75372 AU			9537 Dec 05 03:29	30° $\text{R}$ $\text{B}$
direct	9532 Jan 09 07:39	11° $\text{B}$ 26'51		opposition		9538 Jan 13 21:49	27° $\text{B}$ 21'02 -2°06'57

min. Earth dist.	9538 Jan 13 14:27	27°  22'26	8.68075 AU	retrograde	9544 Jan 22 14:06	16°  44'57	
direct	9538 Mar 23 13:22	24°  00'27		opposition	9544 Mar 31 01:58	13°  18'27	0°36'45
	9538 Jun 20 16:52	0°  0		min. Earth dist.	9544 Mar 30 22:20	13°  19'11	8.40054 AU
evening set	9538 Jul 01 22:29	1°  19'17		direct	9544 Jun 06 11:05	9°  54'23	
				evening set	9544 Sep 16 15:30	17°  34'55	
conjunction	9538 Jul 18 22:40	3°  23'22	-1°36'34				
minimum elong	9538 Jul 18 22:42	3°  23'22	1°36'51	conjunction	9544 Oct 04 09:54	19°  47'31	0°42'16
max. Earth dist.	9538 Jul 19 07:27	3°  26'03	10.65924 AU	minimum elong	9544 Oct 04 09:52	19°  47'30	0°42'22
morning rise	9538 Aug 05 02:01	5°  28'25		max. Earth dist.	9544 Oct 04 12:54	19°  48'27	10.38162 AU
retrograde	9538 Nov 17 17:45	13°  04'32		morning rise	9544 Oct 22 06:27	22°  00'47	
opposition	9539 Jan 26 18:19	9°  39'59	-1°49'12	retrograde	9545 Feb 04 04:47	29°  53'34	
min. Earth dist.	9539 Jan 26 10:53	9°  41'25	8.63813 AU	opposition	9545 Apr 13 09:08	26°  27'06	1°07'39
direct	9539 Apr 05 02:40	6°  19'03		min. Earth dist.	9545 Apr 13 07:29	26°  27'26	8.36491 AU
evening set	9539 Jul 14 12:03	13°  40'02		direct	9545 Jun 19 18:52	23°  02'15	
	9539 Jul 25 11:08	15°  0			9545 Sep 24 01:51	0°  0	
				evening set	9545 Sep 30 13:16	0°  14'18	
conjunction	9539 Jul 31 15:22	15°  45'30	-1°19'53				
minimum elong	9539 Jul 31 15:24	15°  45'31	1°20'09	conjunction	9545 Oct 18 08:52	3°  00'42	1°06'02
max. Earth dist.	9539 Jul 31 23:27	15°  47'59	10.61426 AU	minimum elong	9545 Oct 18 08:50	3°  00'41	1°06'12
morning rise	9539 Aug 17 22:19	17°  52'03		max. Earth dist.	9545 Oct 18 09:03	3°  00'45	10.34972 AU
retrograde	9539 Nov 30 21:45	25°  31'34		morning rise	9545 Nov 05 06:00	5°  14'34	
opposition	9540 Feb 08 16:20	22°  06'25	-1°26'10	retrograde	9546 Feb 17 20:34	13°  18'08'09	
min. Earth dist.	9540 Feb 08 09:39	22°  07'43	8.59065 AU	opposition	9546 Apr 26 17:48	9°  41'51	1°35'14
direct	9540 Apr 16 17:07	18°  45'00		min. Earth dist.	9546 Apr 26 18:19	9°  41'44	8.33761 AU
evening set	9540 Jul 26 06:22	26°  08'52		direct	9546 Jul 03 05:26	6°  16'14	
				evening set	9546 Oct 14 14:38	14°  18'05'23	
conjunction	9540 Aug 12 13:10	28°  15'52	-0°59'17		9546 Oct 21 22:31	15°  0	
minimum elong	9540 Aug 12 13:12	28°  15'53	0°59'30				
max. Earth dist.	9540 Aug 12 20:28	28°  18'07	10.56558 AU	conjunction	9546 Nov 01 10:48	16°  19'17	1°26'25
	9540 Aug 26 16:34	0°  0		minimum elong	9546 Nov 01 10:46	16°  19'17	1°26'39
morning rise	9540 Aug 29 23:49	0°  24'00		max. Earth dist.	9546 Nov 01 08:35	16°  18'36	10.32651 AU
retrograde	9540 Dec 13 02:37	8°  06'52		morning rise	9546 Nov 19 07:39	18°  18'33'25	
opposition	9541 Feb 20 15:55	4°  41'11	-0°58'45	retrograde	9547 Mar 03 13:05	26°  18'27'00	
min. Earth dist.	9541 Feb 20 10:07	4°  42'20	8.54069 AU	opposition	9547 May 10 03:43	23°  18'00'59	1°57'51
direct	9541 Apr 29 11:34	1°  19'11		min. Earth dist.	9547 May 10 05:52	23°  18'00'33	8.31927 AU
evening set	9541 Aug 08 05:59	8°  46'36		direct	9547 Jul 16 18:39	19°  18'34'42	
				evening set	9547 Oct 28 18:22	27°  18'27'25	
conjunction	9541 Aug 25 16:23	10°  45'55'11	-0°35'38				
minimum elong	9541 Aug 25 16:24	10°  45'55'12	0°35'46	conjunction	9547 Nov 15 14:32	29°  18'41'32	1°42'13
max. Earth dist.	9541 Aug 25 23:15	10°  45'57'19	10.51552 AU	minimum elong	9547 Nov 15 14:29	29°  18'41'32	1°42'31
morning rise	9541 Sep 12 06:26	13°  45'04'52		max. Earth dist.	9547 Nov 15 10:24	29°  18'40'14	10.31246 AU
retrograde	9541 Dec 26 10:53	20°  45'50'54			9547 Nov 18 01:00	0°  0	
opposition	9542 Mar 05 17:20	17°  45'24'49	-0°28'09	morning rise	9547 Dec 03 10:22	1°  45'55'37	
min. Earth dist.	9542 Mar 05 12:00	17°  45'25'51	8.49066 AU	retrograde	9548 Mar 16 05:02	9°  45'48'27	
direct	9542 May 12 09:19	14°  45'02'10		opposition	9548 May 22 14:39	6°  45'22'53	2°14'10
evening set	9542 Aug 21 11:21	21°  45'33'39		min. Earth dist.	9548 May 22 18:02	6°  45'22'12	8.31041 AU
				direct	9548 Jul 29 11:07	2°  45'56'05	
conjunction	9542 Sep 08 01:02	23°  45'43'46	-0°10'00	evening set	9548 Nov 10 23:28	10°  45'51'35	
minimum elong	9542 Sep 08 01:03	23°  45'43'46	0°10'04				
behind sun begin	9542 Sep 07 19:16	23°  45'41'59		conjunction	9548 Nov 28 19:01	13°  45'57'39	1°52'32
behind sun end	9542 Sep 08 06:49	23°  45'45'32		minimum elong	9548 Nov 28 19:00	13°  45'57'38	1°52'51
max. Earth dist.	9542 Sep 08 07:36	23°  45'45'47	10.46650 AU	max. Earth dist.	9548 Nov 28 13:25	13°  45'03'53	10.30860 AU
morning rise	9542 Sep 25 17:54	25°  45'54'53		morning rise	9548 Dec 16 13:15	15°  45'19'23	
	9542 Nov 01 05:00	0°  0		retrograde	9549 Mar 29 20:08	23°  45'10'35	
retrograde	9543 Jan 08 23:14	3°  43'45		opposition	9549 Jun 05 02:09	19°  45'45'36	2°23'14
asc. node	9543 Jan 29 07:49	3°  43'22'22		min. Earth dist.	9549 Jun 05 06:34	19°  45'44'43	8.31236 AU
opposition	9543 Mar 18 20:39	0°  43'17'22	0°04'14	direct	9549 Aug 12 04:20	16°  45'18'26	
min. Earth dist.	9543 Mar 18 15:45	0°  43'18'20	8.44311 AU	evening set	9549 Nov 25 04:11	24°  45'15'35	
	9543 Mar 22 12:21	30°  43'18					
direct	9543 May 25 08:34	26°  43'54'03		conjunction	9549 Dec 12 22:37	26°  43'57'18	1°56'45
	9543 Jul 25 05:42	0°  0		minimum elong	9549 Dec 12 22:37	26°  43'57'18	1°57'06
evening set	9543 Sep 03 22:39	4°  43'29'58		max. Earth dist.	9549 Dec 12 15:50	26°  43'27'09	10.31624 AU
				morning rise	9549 Dec 30 14:58	28°  43'42'27	
conjunction	9543 Sep 21 15:02	6°  43'41'26	0°16'29		9550 Jan 10 05:56	0°  0	
minimum elong	9543 Sep 21 15:02	6°  43'41'26	0°16'30	retrograde	9550 Apr 12 10:29	6°  43'31'08	
max. Earth dist.	9543 Sep 21 20:17	6°  43'04	10.42111 AU	opposition	9550 Jun 18 14:02	3°  43'06'47	2°24'33
morning rise	9543 Oct 09 10:06	8°  43'53'47		min. Earth dist.	9550 Jun 18 19:38	3°  43'05'39	8.32595 AU

	9550 Aug 06 04:25	30° $\mathbb{R}$ $\mathbb{X}$		opposition	9556 Sep 04 11:43	20° $\mathbb{X}$ 52'22	0°19'47
direct	9550 Aug 25 22:13	29° $\mathbb{X}$ 39'24		min. Earth dist.	9556 Sep 04 16:01	20° $\mathbb{X}$ 51'32	8.58242 AU
	9550 Sep 14 16:40	0° $\mathbb{Z}$		direct	9556 Nov 13 12:32	17° $\mathbb{X}$ 27'23	
evening set	9550 Dec 09 06:49	7° $\mathbb{Z}$ 36'50		evening set	9557 Feb 25 23:09	25° $\mathbb{X}$ 04'57	
conjunction	9550 Dec 26 23:47	9° $\mathbb{Z}$ 49'57	1°54'40	conjunction	9557 Mar 15 03:15	27° $\mathbb{X}$ 11'05	0°03'11
minimum elong	9550 Dec 26 23:47	9° $\mathbb{Z}$ 49'57	1°55'01	minimum elong	9557 Mar 15 03:13	27° $\mathbb{X}$ 11'05	0°03'14
max. Earth dist.	9550 Dec 26 15:40	9° $\mathbb{Z}$ 47'23	10.33569 AU	behind sun begin	9557 Mar 14 20:10	27° $\mathbb{X}$ 08'56	
morning rise	9551 Jan 13 14:08	12° $\mathbb{Z}$ 02'19		behind sun end	9557 Mar 15 10:17	27° $\mathbb{X}$ 13'14	
retrograde	9551 Apr 25 22:05	19° $\mathbb{Z}$ 47'40		max. Earth dist.	9557 Mar 14 22:30	27° $\mathbb{X}$ 09'40	10.60836 AU
opposition	9551 Jul 02 01:30	16° $\mathbb{Z}$ 24'00	2°18'07	morning rise	9557 Apr 01 04:23	29° $\mathbb{X}$ 16'20	
min. Earth dist.	9551 Jul 02 08:10	16° $\mathbb{Z}$ 22'40	8.35088 AU		9557 Apr 07 06:27	0° $\mathbb{Y}$	
direct	9551 Sep 08 16:58	12° $\mathbb{Z}$ 56'34		desc. node	9557 Apr 30 18:38	2° $\mathbb{Y}$ 37'05	
evening set	9551 Dec 23 06:16	20° $\mathbb{Z}$ 52'58		retrograde	9557 Jul 10 21:13	6° $\mathbb{Y}$ 39'09	
conjunction	9552 Jan 09 21:32	23° $\mathbb{Z}$ 05'15	1°46'30	opposition	9557 Sep 17 12:34	3° $\mathbb{Y}$ 18'37	-0°11'35
minimum elong	9552 Jan 09 21:33	23° $\mathbb{Z}$ 05'15	1°46'50	min. Earth dist.	9557 Sep 17 15:52	3° $\mathbb{Y}$ 17'59	8.63340 AU
max. Earth dist.	9552 Jan 09 12:27	23° $\mathbb{Z}$ 02'23	10.36605 AU		9557 Nov 16 06:02	30° $\mathbb{R}$ $\mathbb{X}$	
morning rise	9552 Jan 27 09:50	25° $\mathbb{Z}$ 16'39		direct	9557 Nov 26 16:17	29° $\mathbb{X}$ 54'30	
	9552 Mar 09 23:58	0° $\mathbb{X}$			9557 Dec 07 02:43	0° $\mathbb{Y}$	
retrograde	9552 May 08 04:38	2° $\mathbb{X}$ 58'03		evening set	9558 Mar 10 15:38	7° $\mathbb{Y}$ 27'33	
	9552 Jul 09 05:59	30° $\mathbb{R}$ $\mathbb{Z}$		conjunction	9558 Mar 27 17:06	9° $\mathbb{Y}$ 32'22	-0°22'07
opposition	9552 Jul 14 11:48	29° $\mathbb{Z}$ 35'04	2°04'25	minimum elong	9558 Mar 27 17:06	9° $\mathbb{Y}$ 32'22	0°22'08
min. Earth dist.	9552 Jul 14 18:52	29° $\mathbb{Z}$ 33'40	8.38583 AU	max. Earth dist.	9558 Mar 27 13:43	9° $\mathbb{Y}$ 31'20	10.65751 AU
direct	9552 Sep 21 12:33	26° $\mathbb{Z}$ 07'48		morning rise	9558 Apr 13 16:14	11° $\mathbb{Y}$ 36'28	
	9552 Nov 30 12:07	0° $\mathbb{X}$		retrograde	9558 Jul 23 10:59	18° $\mathbb{Y}$ 57'16	
evening set	9553 Jan 05 01:17	4° $\mathbb{X}$ 01'55		opposition	9558 Sep 30 11:15	15° $\mathbb{Y}$ 36'57	-0°42'04
conjunction	9553 Jan 22 14:41	6° $\mathbb{X}$ 13'11	1°32'50	min. Earth dist.	9558 Sep 30 12:41	15° $\mathbb{Y}$ 36'40	8.68024 AU
minimum elong	9553 Jan 22 14:43	6° $\mathbb{X}$ 13'11	1°33'07	direct	9558 Dec 09 17:12	12° $\mathbb{Y}$ 13'44	
max. Earth dist.	9553 Jan 22 05:34	6° $\mathbb{X}$ 10'19	10.40564 AU	evening set	9559 Mar 23 03:48	19° $\mathbb{Y}$ 42'36	
morning rise	9553 Feb 09 00:51	8° $\mathbb{X}$ 23'28		conjunction	9559 Apr 09 02:56	21° $\mathbb{Y}$ 46'12	-0°46'04
	9553 Apr 17 16:02	15° $\mathbb{X}$		minimum elong	9559 Apr 09 02:55	21° $\mathbb{Y}$ 46'12	0°46'10
retrograde	9553 May 21 09:11	16° $\mathbb{X}$ 00'40		max. Earth dist.	9559 Apr 09 01:51	21° $\mathbb{Y}$ 45'52	10.70122 AU
	9553 Jun 24 15:52	15° $\mathbb{R}$ $\mathbb{X}$		morning rise	9559 Apr 26 00:05	23° $\mathbb{Y}$ 49'15	
opposition	9553 Jul 27 20:45	12° $\mathbb{X}$ 38'19	1°44'24		9559 Jun 29 03:26	0° $\mathbb{Z}$	
min. Earth dist.	9553 Jul 28 03:14	12° $\mathbb{X}$ 37'03	8.42886 AU	retrograde	9559 Aug 05 01:40	1° $\mathbb{Z}$ 08'52	
direct	9553 Oct 05 05:25	9° $\mathbb{X}$ 11'24			9559 Sep 11 20:17	30° $\mathbb{R}$ $\mathbb{Y}$	
	9554 Jan 01 11:06	15° $\mathbb{X}$		opposition	9559 Oct 13 08:20	27° $\mathbb{Y}$ 48'40	-1°10'19
evening set	9554 Jan 18 14:53	17° $\mathbb{X}$ 02'09		min. Earth dist.	9559 Oct 13 07:47	27° $\mathbb{Y}$ 48'46	8.72065 AU
conjunction	9554 Feb 05 02:17	19° $\mathbb{X}$ 12'16	1°14'31	direct	9559 Dec 22 14:30	24° $\mathbb{Y}$ 26'21	
minimum elong	9554 Feb 05 02:19	19° $\mathbb{X}$ 12'16	1°14'45		9560 Mar 18 11:50	0° $\mathbb{Z}$	
max. Earth dist.	9554 Feb 04 18:21	19° $\mathbb{X}$ 09'47	10.45221 AU	evening set	9560 Apr 03 12:28	1° $\mathbb{Z}$ 51'26	
morning rise	9554 Feb 22 10:11	21° $\mathbb{X}$ 21'19		conjunction	9560 Apr 20 09:24	3° $\mathbb{Z}$ 54'00	-1°07'47
retrograde	9554 Jun 03 11:15	28° $\mathbb{X}$ 54'21		minimum elong	9560 Apr 20 09:22	3° $\mathbb{Z}$ 54'00	1°07'57
opposition	9554 Aug 10 03:51	25° $\mathbb{X}$ 32'33	1°19'18	max. Earth dist.	9560 Apr 20 10:34	3° $\mathbb{Z}$ 54'22	10.73746 AU
min. Earth dist.	9554 Aug 10 09:17	25° $\mathbb{X}$ 31'29	8.47764 AU	morning rise	9560 May 07 04:50	5° $\mathbb{Z}$ 56'11	
direct	9554 Oct 18 18:53	22° $\mathbb{X}$ 06'09		retrograde	9560 Aug 16 14:47	13° $\mathbb{Z}$ 15'24	
evening set	9555 Jan 31 23:05	29° $\mathbb{X}$ 52'49		opposition	9560 Oct 25 04:06	9° $\mathbb{Z}$ 55'11	-1°35'14
	9555 Feb 01 22:41	0° $\mathbb{X}$		min. Earth dist.	9560 Oct 25 02:08	9° $\mathbb{Z}$ 55'34	8.75291 AU
conjunction	9555 Feb 18 08:18	2° $\mathbb{X}$ 01'39	0°52'39	direct	9561 Jan 03 06:58	6° $\mathbb{Z}$ 33'43	
minimum elong	9555 Feb 18 08:20	2° $\mathbb{X}$ 01'40	0°52'50	evening set	9561 Apr 15 18:28	13° $\mathbb{Z}$ 55'35	
max. Earth dist.	9555 Feb 18 01:53	1° $\mathbb{X}$ 59'39	10.50325 AU		9561 Apr 24 16:47	15° $\mathbb{Z}$	
morning rise	9555 Mar 07 13:53	4° $\mathbb{X}$ 09'27		conjunction	9561 May 02 13:28	15° $\mathbb{Z}$ 57'18	-1°26'22
retrograde	9555 Jun 16 09:32	11° $\mathbb{X}$ 38'30		minimum elong	9561 May 02 13:26	15° $\mathbb{Z}$ 57'18	1°26'36
opposition	9555 Aug 23 08:45	8° $\mathbb{X}$ 17'12	0°50'35	max. Earth dist.	9561 May 02 15:54	15° $\mathbb{Z}$ 58'03	10.76484 AU
min. Earth dist.	9555 Aug 23 13:36	8° $\mathbb{X}$ 16'15	8.52967 AU	morning rise	9561 May 19 07:49	17° $\mathbb{Z}$ 58'52	
direct	9555 Nov 01 05:15	4° $\mathbb{X}$ 51'27		retrograde	9561 Aug 29 02:35	25° $\mathbb{Z}$ 18'26	
evening set	9556 Feb 14 01:49	12° $\mathbb{X}$ 33'38		opposition	9561 Nov 06 22:46	21° $\mathbb{Z}$ 58'05	-1°55'47
conjunction	9556 Mar 02 08:35	14° $\mathbb{X}$ 41'08	0°28'27	min. Earth dist.	9561 Nov 06 20:05	21° $\mathbb{Z}$ 58'36	8.77581 AU
minimum elong	9556 Mar 02 08:36	14° $\mathbb{X}$ 41'08	0°28'33	direct	9562 Jan 15 22:24	18° $\mathbb{Z}$ 37'19	
max. Earth dist.	9556 Mar 02 03:06	14° $\mathbb{X}$ 39'26	10.55615 AU	evening set	9562 Apr 27 22:26	25° $\mathbb{Z}$ 56'37	
morning rise	9556 Mar 19 11:53	16° $\mathbb{X}$ 47'39		conjunction	9562 May 14 16:05	27° $\mathbb{Z}$ 57'45	-1°41'05
retrograde	9556 Jun 28 04:58	24° $\mathbb{X}$ 13'14		minimum elong	9562 May 14 16:03	27° $\mathbb{Z}$ 57'44	1°41'23

max. Earth dist.	9562 May 14 19:26	27°♄58'46	10.78237 AU		9568 Sep 01 09:51	15°♄	
morning rise	9562 May 31 10:01	29°♄58'57		retrograde	9568 Nov 24 08:17	20°♄12'38	
	9562 May 31 13:32	0°♄		opposition	9569 Feb 02 06:32	16°♄48'26	-1°36'48
retrograde	9562 Sep 10 15:45	7°♄19'34		min. Earth dist.	9569 Feb 02 00:15	16°♄49'39	8.64036 AU
opposition	9562 Nov 19 16:38	3°♄58'58	-2°11'12		9569 Feb 27 00:07	15°♄	
min. Earth dist.	9562 Nov 19 12:47	3°♄59'41	8.78837 AU	direct	9569 Apr 11 11:59	13°♄27'53	
direct	9563 Jan 28 12:39	0°♄38'45			9569 May 23 20:06	15°♄	
evening set	9563 May 10 01:18	7°♄56'07		evening set	9569 Jul 20 21:47	20°♄49'09	
conjunction	9563 May 26 18:24	9°♄56'59	-1°51'22	conjunction	9569 Aug 07 02:58	22°♄55'07	-1°08'48
minimum elong	9563 May 26 18:23	9°♄56'59	1°51'42	minimum elong	9569 Aug 07 03:01	22°♄55'07	1°09'02
max. Earth dist.	9563 May 26 23:28	9°♄58'32	10.78927 AU	max. Earth dist.	9569 Aug 07 10:22	22°♄57'23	10.61347 AU
morning rise	9563 Jun 12 12:23	11°♄58'07		morning rise	9569 Aug 24 11:39	25°♄02'10	
retrograde	9563 Sep 23 04:58	19°♄20'23			9569 Oct 10 02:42	0°♄	
opposition	9563 Dec 02 09:58	15°♄59'23	-2°20'53	retrograde	9569 Dec 07 12:38	2°♄42'20	
min. Earth dist.	9563 Dec 02 04:30	16°♄00'25	8.79004 AU		9570 Feb 06 00:02	30°♄	
direct	9564 Feb 10 00:28	12°♄39'37		opposition	9570 Feb 15 04:25	29°♄17'25	-1°11'21
evening set	9564 May 21 03:55	19°♄55'44		min. Earth dist.	9570 Feb 14 22:31	29°♄18'34	8.58644 AU
				direct	9570 Apr 24 03:01	25°♄56'10	
conjunction	9564 Jun 06 21:17	21°♄56'39	-1°56'47		9570 Jul 04 04:37	0°♄	
minimum elong	9564 Jun 06 21:16	21°♄56'39	1°57'08	evening set	9570 Aug 02 18:15	3°♄20'49	
max. Earth dist.	9564 Jun 07 04:26	21°♄58'49	10.78533 AU				
morning rise	9564 Jun 23 16:00	23°♄58'02		conjunction	9570 Aug 20 02:55	5°♄28'23	-0°46'30
	9564 Aug 24 17:06	0°♄		minimum elong	9570 Aug 20 02:56	5°♄28'24	0°46'40
retrograde	9564 Oct 04 20:37	1°♄22'29		max. Earth dist.	9570 Aug 20 09:08	5°♄30'18	10.55844 AU
	9564 Nov 16 00:03	30°♄		morning rise	9570 Sep 06 15:09	7°♄37'03	
opposition	9564 Dec 14 03:18	28°♄00'59	-2°24'26	retrograde	9570 Dec 20 19:21	15°♄20'37	
min. Earth dist.	9564 Dec 13 20:26	28°♄02'16	8.78077 AU	opposition	9571 Feb 28 04:19	11°♄55'03	-0°42'10
direct	9565 Feb 21 12:04	24°♄41'27		min. Earth dist.	9571 Feb 27 23:30	11°♄55'59	8.53047 AU
	9565 May 16 09:02	0°♄		direct	9571 May 06 21:54	8°♄32'58	
evening set	9565 Jun 02 07:12	1°♄57'00		evening set	9571 Aug 15 20:06	16°♄01'34	
conjunction	9565 Jun 19 01:32	3°♄58'20	-1°57'05	conjunction	9571 Sep 02 08:04	18°♄10'44	-0°21'42
minimum elong	9565 Jun 19 01:32	3°♄58'20	1°57'26	minimum elong	9571 Sep 02 08:05	18°♄10'45	0°21'48
max. Earth dist.	9565 Jun 19 09:28	4°♄00'44	10.77060 AU	max. Earth dist.	9571 Sep 02 12:33	18°♄12'07	10.50277 AU
morning rise	9565 Jul 05 21:55	6°♄00'17		morning rise	9571 Sep 19 23:37	20°♄20'59	
retrograde	9565 Oct 17 15:13	13°♄27'18		retrograde	9572 Jan 03 04:57	28°♄07'42	
opposition	9565 Dec 26 20:54	10°♄05'13	-2°21'39	opposition	9572 Mar 12 06:12	24°♄41'34	-0°10'32
min. Earth dist.	9565 Dec 26 13:55	10°♄06'33	8.76064 AU	min. Earth dist.	9572 Mar 12 02:57	24°♄42'13	8.47540 AU
direct	9566 Mar 05 22:02	6°♄45'44		direct	9572 May 18 19:40	21°♄18'34	
evening set	9566 Jun 14 12:14	14°♄01'28		asc. node	9572 Jul 12 07:50	23°♄49'32	
				evening set	9572 Aug 28 03:54	28°♄51'37	
conjunction	9566 Jul 01 08:14	16°♄03'31	-1°52'14		9572 Sep 06 10:27	0°♄	
minimum elong	9566 Jul 01 08:15	16°♄03'31	1°52'33				
max. Earth dist.	9566 Jul 01 15:47	16°♄05'49	10.74526 AU	conjunction	9572 Sep 14 18:54	1°♄02'17	0°04'32
morning rise	9566 Jul 18 07:02	18°♄06'23		minimum elong	9572 Sep 14 18:54	1°♄02'17	0°04'30
retrograde	9566 Oct 30 09:23	25°♄36'16		behind sun begin	9572 Sep 14 11:49	1°♄00'07	
opposition	9567 Jan 08 14:56	22°♄13'32	-2°12'35	behind sun end	9572 Sep 15 01:59	1°♄04'28	
min. Earth dist.	9567 Jan 08 08:30	22°♄14'46	8.72989 AU	max. Earth dist.	9572 Sep 14 22:04	1°♄03'14	10.44923 AU
direct	9567 Mar 18 08:42	18°♄53'51		morning rise	9572 Oct 02 13:07	3°♄13'57	
evening set	9567 Jun 26 19:41	26°♄10'38		retrograde	9573 Jan 15 16:22	11°♄03'24	
				opposition	9573 Mar 25 09:52	7°♄36'50	0°22'02
conjunction	9567 Jul 13 18:10	28°♄13'43	-1°42'19	min. Earth dist.	9573 Mar 25 07:46	7°♄37'15	8.42395 AU
minimum elong	9567 Jul 13 18:12	28°♄13'44	1°42'37	direct	9573 May 31 21:31	4°♄12'53	
max. Earth dist.	9567 Jul 14 01:21	28°♄15'55	10.70964 AU	evening set	9573 Sep 10 17:26	11°♄50'43	
	9567 Jul 28 08:36	0°♄					
morning rise	9567 Jul 30 19:58	0°♄17'45		conjunction	9573 Sep 28 10:58	14°♄02'43	0°30'40
retrograde	9567 Nov 12 06:32	7°♄50'55		minimum elong	9573 Sep 28 10:56	14°♄02'42	0°30'43
opposition	9568 Jan 21 10:06	4°♄27'28	-1°57'28	max. Earth dist.	9573 Sep 28 13:01	14°♄03'21	10.40035 AU
min. Earth dist.	9568 Jan 21 04:01	4°♄28'38	8.68916 AU	morning rise	9573 Oct 16 06:57	16°♄15'30	
direct	9568 Mar 29 22:17	1°♄07'26		retrograde	9574 Jan 29 05:33	24°♄07'10	
evening set	9568 Jul 08 06:26	8°♄26'03		opposition	9574 Apr 07 15:32	20°♄40'21	0°53'50
				min. Earth dist.	9574 Apr 07 14:18	20°♄40'36	8.37853 AU
conjunction	9568 Jul 25 08:08	10°♄30'29	-1°27'40	direct	9574 Jun 14 03:04	17°♄15'28	
minimum elong	9568 Jul 25 08:11	10°♄30'30	1°27'56	evening set	9574 Sep 24 12:10	24°♄58'06	
max. Earth dist.	9568 Jul 25 15:43	10°♄32'49	10.66488 AU				
morning rise	9568 Aug 11 13:16	12°♄35'58		conjunction	9574 Oct 12 07:25	27°♄11'10	0°55'29

minimum elong	9574 Oct 12 07:23	27°  11'09	0°55'37	evening set	9580 Dec 16 04:35	15°  01'20	
max. Earth dist.	9574 Oct 12 08:18	27°  11'26	10.35852 AU				
morning rise	9574 Oct 30 04:17	29°  24'46		conjunction	9581 Jan 02 20:51	17°  14'09	1°50'58
	9574 Nov 03 23:51	0°  11		minimum elong	9581 Jan 02 20:53	17°  14'09	1°51'18
retrograde	9575 Feb 11 21:49	7°  18'00		max. Earth dist.	9581 Jan 02 13:44	17°  11'54	10.34267 AU
opposition	9575 Apr 20 23:06	3°  51'06	1°23'07	morning rise	9581 Jan 20 10:09	19°  26'07	
min. Earth dist.	9575 Apr 20 22:47	3°  51'10	8.34140 AU	retrograde	9581 May 02 10:41	27°  09'47	
direct	9575 Jun 27 10:29	0°  12'52		opposition	9581 Jul 08 16:22	23°  46'17	2°11'33
evening set	9575 Oct 08 11:32	8°  12'36		min. Earth dist.	9581 Jul 08 21:48	23°  45'12	8.36178 AU
				direct	9581 Sep 15 12:59	20°  18'49	
conjunction	9575 Oct 26 07:42	10°  26'23	1°17'33	evening set	9581 Dec 30 01:56	28°  14'28	
minimum elong	9575 Oct 26 07:39	10°  26'22	1°17'46		9582 Jan 13 04:37	0°  00	
max. Earth dist.	9575 Oct 26 06:44	10°  26'05	10.32596 AU				
morning rise	9575 Nov 13 04:40	12°  40'30		conjunction	9582 Jan 16 16:24	0°  26'20	1°39'42
	9575 Dec 02 17:22	15°  11		minimum elong	9582 Jan 16 16:26	0°  26'21	1°40'01
retrograde	9576 Feb 25 14:50	20°  13'42		max. Earth dist.	9582 Jan 16 09:13	0°  24'05	10.38104 AU
opposition	9576 May 03 08:13	17°  07'38	1°48'11	morning rise	9582 Feb 03 03:30	2°  37'14	
min. Earth dist.	9576 May 03 09:33	17°  07'22	8.31451 AU	retrograde	9582 May 15 18:35	10°  16'51	
	9576 May 31 19:07	15°  18		opposition	9582 Jul 22 02:21	6°  54'13	1°54'15
direct	9576 Jul 09 21:26	13°  41'06		min. Earth dist.	9582 Jul 22 08:11	6°  53'03	8.40429 AU
	9576 Aug 17 15:36	15°  11		direct	9582 Sep 29 05:12	3°  27'13	
evening set	9576 Oct 21 14:18	21°  13'28		evening set	9583 Jan 12 18:31	11°  20'00	
conjunction	9576 Nov 08 10:36	23°  46'39	1°35'35	conjunction	9583 Jan 30 06:58	13°  30'46	1°23'22
minimum elong	9576 Nov 08 10:34	23°  46'38	1°35'52	minimum elong	9583 Jan 30 07:00	13°  30'47	1°23'38
max. Earth dist.	9576 Nov 08 07:09	23°  45'33	10.30438 AU	max. Earth dist.	9583 Jan 29 23:36	13°  28'28	10.42772 AU
morning rise	9576 Nov 26 06:59	26°  00'55			9583 Feb 11 04:41	15°  00	
	9576 Dec 31 01:40	0°  00		morning rise	9583 Feb 16 15:56	15°  40'30	
retrograde	9577 Mar 10 07:03	3°  54'31		retrograde	9583 May 28 22:02	23°  15'52	
opposition	9577 May 16 18:44	0°  28'08	2°07'34	opposition	9583 Aug 04 10:47	19°  54'02	1°31'16
min. Earth dist.	9577 May 16 21:55	0°  27'30	8.29924 AU	min. Earth dist.	9583 Aug 04 16:48	19°  52'51	8.45385 AU
	9577 May 22 14:18	30°  00		direct	9583 Oct 12 20:46	16°  27'39	
direct	9577 Jul 23 12:30	27°  00'58		evening set	9584 Jan 26 05:59	24°  16'43	
	9577 Sep 21 08:15	0°  00					
evening set	9577 Nov 04 18:54	4°  55'37		conjunction	9584 Feb 12 16:10	26°  26'13	1°02'58
				minimum elong	9584 Feb 12 16:12	26°  26'14	1°03'10
conjunction	9577 Nov 22 14:42	7°  09'52	1°48'31	max. Earth dist.	9584 Feb 12 08:50	26°  23'56	10.48014 AU
minimum elong	9577 Nov 22 14:40	7°  09'51	1°48'51	morning rise	9584 Feb 29 22:58	28°  34'42	
max. Earth dist.	9577 Nov 22 09:10	7°  08'07	10.29496 AU		9584 Mar 12 19:55	0°  00	
morning rise	9577 Dec 10 09:51	9°  23'56		retrograde	9584 Jun 09 21:08	6°  05'55	
retrograde	9578 Mar 23 21:54	17°  16'21		opposition	9584 Aug 16 17:14	2°  44'47	1°03'59
opposition	9578 May 30 06:07	13°  50'30	2°20'04	min. Earth dist.	9584 Aug 16 22:28	2°  43'46	8.50780 AU
min. Earth dist.	9578 May 30 10:37	13°  49'36	8.29646 AU		9584 Sep 26 18:04	30°  00	
direct	9578 Aug 06 05:36	10°  52'53		direct	9584 Oct 25 10:37	29°  19'08	
evening set	9578 Nov 18 23:47	18°  19'43			9584 Nov 22 20:59	0°  00	
				evening set	9585 Feb 07 11:52	7°  03'51	
conjunction	9578 Dec 06 18:42	20°  53'45	1°55'35	conjunction	9585 Feb 24 19:42	9°  11'59	0°39'39
minimum elong	9578 Dec 06 18:41	20°  53'45	1°55'56	minimum elong	9585 Feb 24 19:44	9°  12'00	0°39'47
max. Earth dist.	9578 Dec 06 11:51	20°  53'15	10.29843 AU	max. Earth dist.	9585 Feb 24 13:36	9°  10'06	10.53550 AU
morning rise	9578 Dec 24 12:11	22°  47'20		morning rise	9585 Mar 14 00:14	11°  19'09	
	9579 Mar 11 04:15	0°  00		retrograde	9585 Jun 22 18:31	18°  46'37	
retrograde	9579 Apr 06 12:20	0°  33'37		opposition	9585 Aug 29 21:41	15°  26'01	0°33'55
	9579 May 03 00:33	30°  00		min. Earth dist.	9585 Aug 30 01:31	15°  25'16	8.56325 AU
opposition	9579 Jun 12 17:47	27°  12'27	2°24'58	direct	9585 Nov 07 20:46	12°  01'11	
min. Earth dist.	9579 Jun 12 22:51	27°  11'25	8.30646 AU	evening set	9586 Feb 20 12:05	19°  41'09	
direct	9579 Aug 19 23:43	23°  44'39					
	9579 Nov 19 00:28	0°  00		conjunction	9586 Mar 09 17:30	21°  47'56	0°14'41
evening set	9579 Dec 03 03:26	1°  42'23		minimum elong	9586 Mar 09 17:30	21°  47'56	0°14'45
				behind sun begin	9586 Mar 09 14:34	21°  47'02	
conjunction	9579 Dec 20 21:12	3°  55'56	1°56'23	behind sun end	9586 Mar 09 20:27	21°  48'50	
minimum elong	9579 Dec 20 21:13	3°  55'56	1°56'45	max. Earth dist.	9586 Mar 09 13:10	21°  46'36	10.59064 AU
max. Earth dist.	9579 Dec 20 14:00	3°  53'39	10.31465 AU	morning rise	9586 Mar 26 19:41	23°  53'46	
morning rise	9580 Jan 07 12:43	6°  08'49			9586 May 27 15:01	0°  00	
retrograde	9580 Apr 19 00:52	13°  56'07		retrograde	9586 Jul 05 13:54	1°  18'02	
opposition	9580 Jun 25 05:23	10°  31'44	2°22'02		9586 Aug 14 10:58	30°  00	
min. Earth dist.	9580 Jun 25 10:31	10°  30'42	8.32862 AU	opposition	9586 Sep 11 23:54	27°  57'49	0°02'36
direct	9580 Sep 01 18:32	7°  30'40					



min. Earth dist.	9586 Sep 12 02:36	27° $\text{X}$ 57'18	8.61693 AU	max. Earth dist.	9592 May 20 23:12	4° $\text{II}$ 56'57	10.77268 AU
desc. node	9586 Oct 13 02:03	25° $\text{X}$ 46'16		morning rise	9592 Jun 06 13:24	6° $\text{II}$ 57'10	
direct	9586 Nov 21 01:39	24° $\text{X}$ 33'50		retrograde	9592 Sep 17 02:20	14° $\text{II}$ 19'24	
	9587 Feb 14 19:07	0° $\text{Y}$		opposition	9592 Nov 26 04:24	10° $\text{II}$ 58'17	-2°17'20
evening set	9587 Mar 05 07:21	2° $\text{Y}$ 09'06		min. Earth dist.	9592 Nov 26 00:38	10° $\text{II}$ 58'59	8.77320 AU
				direct	9593 Feb 03 20:22	7° $\text{II}$ 37'56	
conjunction	9587 Mar 22 10:12	4° $\text{Y}$ 14'32	-0°10'48	evening set	9593 May 16 05:29	14° $\text{II}$ 55'21	
minimum elong	9587 Mar 22 10:11	4° $\text{Y}$ 14'32	0°10'48				
behind sun begin	9587 Mar 22 04:45	4° $\text{Y}$ 12'52		conjunction	9593 Jun 01 22:38	16° $\text{II}$ 56'27	-1°54'59
behind sun end	9587 Mar 22 15:38	4° $\text{Y}$ 16'11		minimum elong	9593 Jun 01 22:37	16° $\text{II}$ 56'27	1°55'19
max. Earth dist.	9587 Mar 22 07:07	4° $\text{Y}$ 13'36	10.64210 AU	max. Earth dist.	9593 Jun 02 03:02	16° $\text{II}$ 57'47	10.76854 AU
morning rise	9587 Apr 08 10:07	6° $\text{Y}$ 19'08		morning rise	9593 Jun 18 17:08	18° $\text{II}$ 57'56	
retrograde	9587 Jul 18 05:34	13° $\text{Y}$ 40'56		retrograde	9593 Sep 29 16:23	26° $\text{II}$ 22'13	
opposition	9587 Sep 24 23:58	10° $\text{Y}$ 21'00	-0°28'27	opposition	9593 Dec 08 22:21	23° $\text{II}$ 00'27	-2°23'41
min. Earth dist.	9587 Sep 25 02:21	10° $\text{Y}$ 20'32	8.66541 AU	min. Earth dist.	9593 Dec 08 17:58	23° $\text{II}$ 01'17	8.76405 AU
direct	9587 Dec 04 03:46	6° $\text{Y}$ 57'50		direct	9594 Feb 16 09:38	19° $\text{II}$ 40'13	
evening set	9588 Mar 16 22:08	14° $\text{Y}$ 28'48		evening set	9594 May 28 08:56	26° $\text{II}$ 56'55	
conjunction	9588 Apr 02 22:19	16° $\text{Y}$ 32'57	-0°35'27	conjunction	9594 Jun 14 02:47	28° $\text{II}$ 58'19	-1°57'34
minimum elong	9588 Apr 02 22:18	16° $\text{Y}$ 32'57	0°35'30	minimum elong	9594 Jun 14 02:47	28° $\text{II}$ 58'19	1°57'55
max. Earth dist.	9588 Apr 02 19:31	16° $\text{Y}$ 32'06	10.68677 AU	max. Earth dist.	9594 Jun 14 08:21	29° $\text{II}$ 00'00	10.75417 AU
morning rise	9588 Apr 19 20:16	18° $\text{Y}$ 36'28			9594 Jun 22 13:55	0° $\text{III}$	
retrograde	9588 Jul 29 20:07	25° $\text{Y}$ 56'47		morning rise	9594 Jun 30 22:36	1° $\text{III}$ 00'16	
opposition	9588 Oct 06 22:28	22° $\text{Y}$ 36'58	-0°57'53	retrograde	9594 Oct 12 09:17	8° $\text{III}$ 27'04	
min. Earth dist.	9588 Oct 07 00:21	22° $\text{Y}$ 36'37	8.70615 AU	opposition	9594 Dec 21 16:22	5° $\text{III}$ 04'37	-2°23'43
direct	9588 Dec 16 03:06	19° $\text{Y}$ 14'36		min. Earth dist.	9594 Dec 21 10:48	5° $\text{III}$ 05'40	8.74468 AU
evening set	9589 Mar 29 08:56	26° $\text{Y}$ 41'43		direct	9595 Feb 28 21:38	1° $\text{III}$ 44'24	
				evening set	9595 Jun 09 13:30	9° $\text{III}$ 01'04	
conjunction	9589 Apr 15 06:41	28° $\text{Y}$ 44'47	-0°58'18	conjunction	9595 Jun 26 08:53	11° $\text{III}$ 03'05	-1°54'58
minimum elong	9589 Apr 15 06:39	28° $\text{Y}$ 44'47	0°58'26	minimum elong	9595 Jun 26 08:54	11° $\text{III}$ 03'05	1°55'19
max. Earth dist.	9589 Apr 15 04:46	28° $\text{Y}$ 44'12	10.72290 AU	max. Earth dist.	9595 Jun 26 16:16	11° $\text{III}$ 05'20	10.72997 AU
	9589 Apr 25 13:34	0° $\text{X}$		morning rise	9595 Jul 13 06:37	13° $\text{III}$ 05'50	
morning rise	9589 May 02 02:59	0° $\text{X}$ 47'25		retrograde	9595 Oct 25 04:11	20° $\text{III}$ 35'35	
retrograde	9589 Aug 11 09:08	8° $\text{X}$ 07'08		opposition	9596 Jan 03 10:51	17° $\text{III}$ 12'23	-2°17'22
opposition	9589 Oct 19 19:29	4° $\text{X}$ 47'15	-1°24'28	min. Earth dist.	9596 Jan 03 04:01	17° $\text{III}$ 13'41	8.71578 AU
min. Earth dist.	9589 Oct 19 19:59	4° $\text{X}$ 47'09	8.73796 AU	direct	9596 Mar 12 08:54	13° $\text{III}$ 52'04	
direct	9589 Dec 28 23:03	1° $\text{X}$ 25'35		evening set	9596 Jun 20 20:17	21° $\text{III}$ 09'28	
evening set	9590 Apr 10 16:43	8° $\text{X}$ 49'24					
conjunction	9590 Apr 27 12:34	10° $\text{X}$ 51'35	-1°18'26	conjunction	9596 Jul 07 17:53	23° $\text{III}$ 12'26	-1°47'12
minimum elong	9590 Apr 27 12:32	10° $\text{X}$ 51'34	1°18'38	minimum elong	9596 Jul 07 17:55	23° $\text{III}$ 12'27	1°47'32
max. Earth dist.	9590 Apr 27 12:33	10° $\text{X}$ 51'34	10.74966 AU	max. Earth dist.	9596 Jul 08 02:09	23° $\text{III}$ 14'57	10.69693 AU
morning rise	9590 May 14 07:30	12° $\text{X}$ 53'30		morning rise	9596 Jul 24 18:18	25° $\text{III}$ 16'16	
	9590 Jun 01 14:26	15° $\text{X}$			9596 Sep 07 03:31	0° $\text{IV}$	
retrograde	9590 Aug 23 22:01	20° $\text{X}$ 13'24		retrograde	9596 Nov 06 02:27	2° $\text{IV}$ 49'13	
opposition	9590 Nov 01 15:06	16° $\text{X}$ 53'14	-1°47'08		9597 Jan 07 16:33	30° $\text{R}$ $\text{III}$	
min. Earth dist.	9590 Nov 01 13:37	16° $\text{X}$ 53'31	8.76009 AU	opposition	9597 Jan 15 06:09	29° $\text{III}$ 25'18	-2°04'47
	9590 Nov 28 05:06	15° $\text{R}$ $\text{X}$		min. Earth dist.	9597 Jan 14 22:57	29° $\text{III}$ 26'42	8.67857 AU
direct	9591 Jan 10 17:18	13° $\text{X}$ 32'10		direct	9597 Mar 24 21:04	26° $\text{III}$ 04'43	
	9591 Feb 22 00:08	15° $\text{X}$			9597 Jun 02 23:14	0° $\text{IV}$	
evening set	9591 Apr 22 22:14	20° $\text{X}$ 53'14		evening set	9597 Jul 03 06:12	3° $\text{IV}$ 23'38	
conjunction	9591 May 09 16:39	22° $\text{X}$ 54'46	-1°34'59	conjunction	9597 Jul 20 06:34	5° $\text{IV}$ 27'49	-1°34'31
minimum elong	9591 May 09 16:37	22° $\text{X}$ 54'46	1°35'16	minimum elong	9597 Jul 20 06:37	5° $\text{IV}$ 27'50	1°34'49
max. Earth dist.	9591 May 09 18:57	22° $\text{X}$ 55'28	10.76639 AU	max. Earth dist.	9597 Jul 20 14:26	5° $\text{IV}$ 30'13	10.65642 AU
morning rise	9591 May 26 10:39	24° $\text{X}$ 56'14		morning rise	9597 Aug 06 10:21	7° $\text{IV}$ 33'00	
	9591 Jul 14 05:15	0° $\text{II}$			9597 Nov 05 12:09	15° $\text{IV}$	
retrograde	9591 Sep 05 12:31	2° $\text{II}$ 17'00		retrograde	9597 Nov 19 03:11	15° $\text{IV}$ 09'19	
	9591 Oct 31 02:57	30° $\text{R}$ $\text{X}$			9597 Dec 02 17:34	15° $\text{R}$ $\text{IV}$	
opposition	9591 Nov 14 10:00	28° $\text{X}$ 56'25	-2°04'59	opposition	9598 Jan 28 02:42	11° $\text{IV}$ 44'44	-1°46'22
min. Earth dist.	9591 Nov 14 07:02	28° $\text{X}$ 56'58	8.77190 AU	min. Earth dist.	9598 Jan 27 20:06	11° $\text{IV}$ 46'01	8.63458 AU
direct	9592 Jan 23 08:12	25° $\text{X}$ 35'47		direct	9598 Apr 06 09:42	8° $\text{IV}$ 23'44	
	9592 Apr 08 05:52	0° $\text{II}$			9598 Jul 09 13:08	15° $\text{IV}$	
evening set	9592 May 04 02:09	2° $\text{II}$ 54'40		evening set	9598 Jul 15 20:07	15° $\text{IV}$ 44'56	
conjunction	9592 May 20 19:35	4° $\text{II}$ 55'51	-1°47'20	conjunction	9598 Aug 01 23:42	17° $\text{IV}$ 50'32	-1°17'21
minimum elong	9592 May 20 19:33	4° $\text{II}$ 55'50	1°47'40	minimum elong	9598 Aug 01 23:45	17° $\text{IV}$ 50'32	1°17'36

max. Earth dist.	9598 Aug 02 06:59	17° $\Omega$ 52'46	10.61011 AU
morning rise	9598 Aug 19 07:04	19° $\Omega$ 57'14	
retrograde	9598 Dec 02 05:21	27° $\Omega$ 36'59	
opposition	9599 Feb 10 00:40	24° $\Omega$ 11'47	-1°22'47
min. Earth dist.	9599 Feb 09 18:39	24° $\Omega$ 12'57	8.58582 AU
direct	9599 Apr 19 01:32	20° $\Omega$ 50'16	
evening set	9599 Jul 28 14:44	28° $\Omega$ 14'28	
	9599 Aug 11 23:50	0° $\mu$	
conjunction	9599 Aug 14 21:56	0° $\mu$ 21'38	-0°56'22
minimum elong	9599 Aug 14 21:58	0° $\mu$ 21'38	0°56'34
max. Earth dist.	9599 Aug 15 05:13	0° $\mu$ 23'52	10.56018 AU
morning rise	9599 Sep 01 08:51	2° $\mu$ 29'54	
retrograde	9599 Dec 15 11:03	10° $\mu$ 13'05	
opposition	9600 Feb 23 00:24	6° $\mu$ 47'19	-0°54'58
min. Earth dist.	9600 Feb 22 18:32	6° $\mu$ 48'28	8.53470 AU
direct	9600 Apr 30 20:49	3° $\mu$ 25'13	
evening set	9600 Aug 09 14:46	10° $\mu$ 53'01	
conjunction	9600 Aug 27 01:33	13° $\mu$ 01'47	-0°32'27
minimum elong	9600 Aug 27 01:34	13° $\mu$ 01'47	0°32'35
max. Earth dist.	9600 Aug 27 08:47	13° $\mu$ 04'01	10.50902 AU
morning rise	9600 Sep 13 15:46	15° $\mu$ 11'37	
retrograde	9600 Dec 27 21:25	22° $\mu$ 58'01	
opposition	9601 Mar 07 02:01	19° $\mu$ 31'49	-0°24'07
min. Earth dist.	9601 Mar 06 20:23	19° $\mu$ 32'56	8.48370 AU
direct	9601 May 13 16:50	16° $\mu$ 09'03	
evening set	9601 Aug 22 20:49	23° $\mu$ 41'02	
conjunction	9601 Sep 09 10:46	25° $\mu$ 51'19	-0°06'43
minimum elong	9601 Sep 09 10:46	25° $\mu$ 51'19	0°06'46
behind sun begin	9601 Sep 09 04:03	25° $\mu$ 49'15	
behind sun end	9601 Sep 09 17:30	25° $\mu$ 53'23	
max. Earth dist.	9601 Sep 09 16:59	25° $\mu$ 53'13	10.45917 AU
morning rise	9601 Sep 27 03:49	28° $\mu$ 02'36	
	9601 Oct 13 16:52	0° $\Omega$	
asc. node	9601 Dec 14 13:37	5° $\Omega$ 14'47	
retrograde	9602 Jan 10 09:42	5° $\Omega$ 51'49	