

evening set	9100 Feb 04 00:58	27° \approx 40'17		evening set	9105 Jul 21 20:39	15° Ω 51'13	
	9100 Feb 14 20:54	0° \mathbb{H}					
max. Earth dist.	9100 Feb 15 06:43	0° \mathbb{H} 05'17	6.47987 AU	conjunction	9105 Aug 04 06:49	19° Ω 07'31	-0°26'55
				minimum elong	9105 Aug 04 06:50	19° Ω 07'32	0°27'06
conjunction	9100 Feb 16 22:48	0° \mathbb{H} 26'55	0°19'19	max. Earth dist.	9105 Aug 05 16:43	19° Ω 28'13	5.90824 AU
minimum elong	9100 Feb 16 22:49	0° \mathbb{H} 26'55	0°19'27	morning rise	9105 Aug 17 19:17	22° Ω 25'05	
morning rise	9100 Mar 01 18:44	3° \mathbb{H} 12'42			9105 Sep 19 05:25	0° \mathbb{H}	
retrograde	9100 Jun 30 14:18	19° \mathbb{H} 58'34		retrograde	9105 Dec 27 19:22	13° \mathbb{H} 12'55	
opposition	9100 Aug 30 14:19	15° \mathbb{H} 05'38	0°11'19	min. Earth dist.	9106 Feb 23 21:17	8° \mathbb{H} 20'16	3.93709 AU
min. Earth dist.	9100 Sep 01 00:42	14° \mathbb{H} 54'39	4.44027 AU	opposition	9106 Feb 25 04:07	8° \mathbb{H} 09'48	-0°19'51
direct	9100 Nov 01 05:41	10° \mathbb{H} 04'39		direct	9106 Apr 24 02:25	3° \mathbb{H} 14'13	
desc. node	9101 Jan 01 10:02	15° \mathbb{H} 11'16		asc. node	9106 Aug 23 16:28	21° \mathbb{H} 48'48	
evening set	9101 Mar 06 10:17	27° \mathbb{H} 36'23		evening set	9106 Aug 28 22:51	23° \mathbb{H} 03'32	
max. Earth dist.	9101 Mar 16 23:41	29° \mathbb{H} 55'51	6.38193 AU				
	9101 Mar 17 07:11	0° \mathbb{Y}		conjunction	9106 Sep 11 13:47	26° \mathbb{H} 18'12	0°01'25
				minimum elong	9106 Sep 11 13:47	26° \mathbb{H} 18'12	0°01'23
conjunction	9101 Mar 19 05:37	0° \mathbb{Y} 25'39	-0°04'53	behind sun begin	9106 Sep 11 05:22	26° \mathbb{H} 13'13	
minimum elong	9101 Mar 19 05:36	0° \mathbb{Y} 25'38	0°04'51	behind sun end	9106 Sep 11 22:11	26° \mathbb{H} 23'11	
behind sun begin	9101 Mar 18 21:49	0° \mathbb{Y} 21'22		max. Earth dist.	9106 Sep 13 22:50	26° \mathbb{H} 52'11	5.98975 AU
behind sun end	9101 Mar 19 13:22	0° \mathbb{Y} 29'55		morning rise	9106 Sep 25 06:39	29° \mathbb{H} 33'34	
morning rise	9101 Mar 31 23:18	3° \mathbb{Y} 14'24			9106 Sep 27 03:28	0° \mathbb{L}	
retrograde	9101 Aug 01 15:51	20° \mathbb{Y} 41'26		retrograde	9107 Feb 02 00:42	19° \mathbb{L} 31'27	
opposition	9101 Oct 01 13:01	15° \mathbb{Y} 48'28	-0°24'59	min. Earth dist.	9107 Mar 31 23:53	14° \mathbb{L} 40'25	4.06121 AU
min. Earth dist.	9101 Oct 03 04:32	15° \mathbb{Y} 35'48	4.30910 AU	opposition	9107 Apr 02 15:06	14° \mathbb{L} 27'06	0°23'34
direct	9101 Dec 02 10:51	10° \mathbb{Y} 48'49		direct	9107 May 31 04:40	9° \mathbb{L} 29'13	
evening set	9102 Apr 06 22:49	29° \mathbb{Y} 00'33		evening set	9107 Oct 04 20:43	28° \mathbb{L} 33'28	
	9102 Apr 11 07:19	0° \mathbb{Z}			9107 Oct 11 03:54	0° \mathbb{M}	
max. Earth dist.	9102 Apr 17 11:35	1° \mathbb{Z} 24'46	6.22690 AU				
				conjunction	9107 Oct 18 11:50	1° \mathbb{M} 41'01	0°28'06
conjunction	9102 Apr 19 17:26	1° \mathbb{Z} 55'37	-0°28'31	minimum elong	9107 Oct 18 11:49	1° \mathbb{M} 41'00	0°28'14
minimum elong	9102 Apr 19 17:25	1° \mathbb{Z} 55'37	0°28'39	max. Earth dist.	9107 Oct 20 20:58	2° \mathbb{M} 13'49	6.14403 AU
morning rise	9102 May 02 11:38	4° \mathbb{Z} 50'47		morning rise	9107 Nov 01 03:25	4° \mathbb{M} 48'27	
	9102 Jun 19 02:07	15° \mathbb{Z}			9107 Dec 19 01:51	15° \mathbb{M}	
retrograde	9102 Sep 05 08:47	23° \mathbb{Z} 24'15		retrograde	9108 Mar 06 14:41	23° \mathbb{M} 32'02	
opposition	9102 Nov 04 19:06	18° \mathbb{Z} 30'03	-0°56'14	min. Earth dist.	9108 May 04 05:19	18° \mathbb{M} 39'51	4.22944 AU
min. Earth dist.	9102 Nov 06 05:20	18° \mathbb{Z} 18'57	4.14034 AU	opposition	9108 May 05 13:15	18° \mathbb{M} 29'08	0°55'40
	9102 Dec 04 19:59	15° \mathbb{R} \mathbb{Z}			9108 Jun 03 11:50	15° \mathbb{R} \mathbb{M}	
direct	9103 Jan 04 12:25	13° \mathbb{Z} 32'26		direct	9108 Jul 04 09:00	13° \mathbb{M} 29'10	
	9103 Feb 03 23:19	15° \mathbb{Z}			9108 Aug 04 12:57	15° \mathbb{M}	
	9103 Apr 29 07:44	0° \mathbb{I}			9108 Oct 30 19:11	0° \mathbb{J}	
evening set	9103 May 10 09:59	2° \mathbb{I} 35'28		evening set	9108 Nov 07 14:46	1° \mathbb{J} 42'39	
max. Earth dist.	9103 May 21 18:02	5° \mathbb{I} 16'40	6.05854 AU				
				conjunction	9108 Nov 21 02:21	4° \mathbb{J} 41'23	0°44'03
conjunction	9103 May 23 07:08	5° \mathbb{I} 38'43	-0°44'12	minimum elong	9108 Nov 21 02:20	4° \mathbb{J} 41'23	0°44'18
minimum elong	9103 May 23 07:07	5° \mathbb{I} 38'42	0°44'26	max. Earth dist.	9108 Nov 22 17:37	5° \mathbb{J} 03'07	6.31209 AU
morning rise	9103 Jun 05 05:07	8° \mathbb{I} 42'44		morning rise	9108 Dec 04 12:59	7° \mathbb{J} 39'24	
retrograde	9103 Oct 12 13:18	28° \mathbb{I} 32'07		retrograde	9109 Apr 06 19:37	25° \mathbb{J} 14'51	
opposition	9103 Dec 11 12:23	23° \mathbb{I} 35'31	-1°10'04	opposition	9109 Jun 06 05:27	20° \mathbb{J} 15'06	1°08'19
min. Earth dist.	9103 Dec 12 03:01	23° \mathbb{I} 30'41	3.98725 AU	min. Earth dist.	9109 Jun 05 12:06	20° \mathbb{J} 20'49	4.38396 AU
direct	9104 Feb 08 17:53	18° \mathbb{I} 40'06		direct	9109 Aug 06 07:10	15° \mathbb{J} 13'57	
	9104 May 08 14:35	0° \mathbb{O}			9109 Nov 27 00:20	0° \mathbb{K}	
evening set	9104 Jun 14 05:19	8° \mathbb{O} 29'03		evening set	9109 Dec 10 04:00	2° \mathbb{K} 47'18	
conjunction	9104 Jun 27 08:06	11° \mathbb{O} 40'34	-0°44'26	conjunction	9109 Dec 23 10:26	5° \mathbb{K} 38'45	0°46'13
minimum elong	9104 Jun 27 08:06	11° \mathbb{O} 40'34	0°44'41	minimum elong	9109 Dec 23 10:26	5° \mathbb{K} 38'45	0°46'29
max. Earth dist.	9104 Jun 27 03:28	11° \mathbb{O} 37'44	5.93534 AU	max. Earth dist.	9109 Dec 23 20:51	5° \mathbb{K} 44'22	6.44194 AU
morning rise	9104 Jul 10 13:03	14° \mathbb{O} 53'23		morning rise	9110 Jan 05 15:03	8° \mathbb{K} 29'10	
	9104 Sep 18 22:59	0° \mathbb{Q}		retrograde	9110 May 06 18:49	25° \mathbb{K} 19'27	
retrograde	9104 Nov 19 08:49	5° \mathbb{Q} 37'47		opposition	9110 Jul 06 12:16	20° \mathbb{K} 23'05	1°01'33
opposition	9105 Jan 17 21:19	0° \mathbb{Q} 37'50	-0°56'50	min. Earth dist.	9110 Jul 06 15:07	20° \mathbb{K} 22'09	4.48141 AU
min. Earth dist.	9105 Jan 17 10:51	0° \mathbb{Q} 41'21	3.90796 AU	direct	9110 Sep 06 16:02	15° \mathbb{K} 21'30	
	9105 Jan 22 14:18	30° \mathbb{R} \mathbb{O}			9110 Dec 28 22:20	0° \mathbb{N}	
direct	9105 Mar 17 02:02	25° \mathbb{O} 43'19		evening set	9111 Jan 10 02:23	2° \mathbb{N} 33'22	
	9105 May 07 17:36	0° \mathbb{Q}		max. Earth dist.	9111 Jan 22 09:05	5° \mathbb{N} 10'38	6.50033 AU
	9105 Jul 18 08:05	15° \mathbb{Q}					

conjunction	9111 Jan 23 03:45	5°≈20'37	0°35'49			9116 Aug 28 05:49	0°♈
minimum elong	9111 Jan 23 03:46	5°≈20'38	0°36'03	retrograde		9116 Nov 24 14:34	10°♈46'12
morning rise	9111 Feb 05 03:03	8°≈06'51		opposition		9117 Jan 23 00:44	5°♈45'53 -0°53'00
	9111 Mar 10 21:13	15°≈		min. Earth dist.		9117 Jan 22 12:09	5°♈50'07 3.90354 AU
retrograde	9111 Jun 05 10:11	24°≈40'57		direct		9117 Mar 22 02:37	0°♈51'22
opposition	9111 Aug 05 09:47	19°≈46'58	0°39'09			9117 Jul 01 15:13	15°♈
min. Earth dist.	9111 Aug 06 06:51	19°≈40'13	4.49835 AU	evening set		9117 Jul 26 23:04	21°♈00'10
	9111 Sep 24 09:46	15°≈					
direct	9111 Oct 07 01:54	14°≈45'29		conjunction		9117 Aug 09 10:01	24°♈16'51 -0°23'31
	9111 Oct 19 19:45	15°≈		minimum elong		9117 Aug 09 10:02	24°♈16'51 0°23'41
	9112 Jan 31 01:31	0°♈		max. Earth dist.		9117 Aug 10 22:04	24°♈38'50 5.90947 AU
evening set	9112 Feb 09 06:50	1°♈57'34		morning rise		9117 Aug 22 23:37	27°♈34'48
max. Earth dist.	9112 Feb 20 11:36	4°♈22'14	6.47429 AU			9117 Sep 02 01:31	0°♈
				retrograde		9118 Jan 01 19:53	18°♈20'40
conjunction	9112 Feb 22 04:18	4°♈44'14	0°16'10	min. Earth dist.		9118 Feb 28 19:57	13°♈28'35 3.94394 AU
minimum elong	9112 Feb 22 04:19	4°♈44'14	0°16'18	opposition		9118 Mar 02 05:06	13°♈17'18 -0°13'59
morning rise	9112 Mar 05 23:34	7°♈30'01		direct		9118 Apr 29 03:00	8°♈21'28
retrograde	9112 Jul 04 21:25	24°♈18'28		asc. node		9118 Jul 05 12:48	15°♈14'26
opposition	9112 Sep 03 22:41	19°♈25'37	0°06'23	evening set		9118 Sep 03 01:32	28°♈08'18
min. Earth dist.	9112 Sep 05 09:22	19°♈14'33	4.43076 AU			9118 Sep 10 21:59	0°♈
direct	9112 Nov 05 12:13	14°♈24'49					
desc. node	9112 Nov 12 11:25	14°♈29'12		conjunction		9118 Sep 16 16:57	1°♈22'36 0°05'22
	9113 Mar 01 14:24	0°♈		minimum elong		9118 Sep 16 16:57	1°♈22'36 0°05'21
evening set	9113 Mar 10 17:18	1°♈59'13		behind sun begin		9118 Sep 16 08:52	1°♈17'49
max. Earth dist.	9113 Mar 21 05:17	4°♈18'23	6.36904 AU	behind sun end		9118 Sep 17 01:02	1°♈27'23
				max. Earth dist.		9118 Sep 19 02:53	1°♈57'02 6.00162 AU
conjunction	9113 Mar 23 12:09	4°♈48'48	-0°08'16	morning rise		9118 Sep 30 10:03	4°♈37'30
minimum elong	9113 Mar 23 12:08	4°♈48'48	0°08'17	retrograde		9119 Feb 06 21:09	24°♈28'37
behind sun begin	9113 Mar 23 05:05	4°♈44'55		min. Earth dist.		9119 Apr 05 20:25	19°♈37'18 4.07660 AU
behind sun end	9113 Mar 23 19:11	4°♈52'41		opposition		9119 Apr 07 10:35	19°♈24'20 0°28'51
morning rise	9113 Apr 05 05:46	7°♈38'00		direct		9119 Jun 05 03:47	14°♈26'09
retrograde	9113 Aug 06 06:59	25°♈10'48				9119 Sep 24 13:39	0°♈
opposition	9113 Oct 06 02:30	20°♈17'42	-0°29'43	evening set		9119 Oct 09 19:33	3°♈25'47
min. Earth dist.	9113 Oct 07 18:40	20°♈04'49	4.29342 AU				
direct	9113 Dec 06 22:40	15°♈18'14		conjunction		9119 Oct 23 10:35	6°♈32'30 0°31'00
	9114 Mar 26 10:59	0°♈		minimum elong		9119 Oct 23 10:34	6°♈32'29 0°31'09
evening set	9114 Apr 11 09:03	3°♈34'19		max. Earth dist.		9119 Oct 25 19:47	7°♈05'12 6.16169 AU
max. Earth dist.	9114 Apr 21 22:55	5°♈59'42	6.20961 AU	morning rise		9119 Nov 06 01:45	9°♈38'58
						9119 Nov 30 06:44	15°♈
conjunction	9114 Apr 24 03:49	6°♈30'07	-0°31'13	retrograde		9120 Mar 11 02:12	28°♈14'16
minimum elong	9114 Apr 24 03:48	6°♈30'06	0°31'22	min. Earth dist.		9120 May 08 18:48	23°♈22'19 4.24777 AU
morning rise	9114 May 06 22:11	9°♈26'04		opposition		9120 May 10 02:24	23°♈11'44 0°58'34
	9114 May 31 20:15	15°♈		direct		9120 Jul 09 00:27	18°♈11'36
retrograde	9114 Sep 10 04:05	28°♈07'34				9120 Oct 13 12:30	0°♈
opposition	9114 Nov 09 14:31	23°♈13'05	-0°59'16	evening set		9120 Nov 12 07:36	6°♈20'09
min. Earth dist.	9114 Nov 10 22:30	23°♈02'42	4.12274 AU				
direct	9115 Jan 09 02:30	18°♈15'46		conjunction		9120 Nov 25 18:30	9°♈17'55 0°45'07
	9115 Apr 12 13:31	0°♈		minimum elong		9120 Nov 25 18:29	9°♈17'54 0°45'21
evening set	9115 May 15 02:00	7°♈23'58		max. Earth dist.		9120 Nov 27 05:53	9°♈37'26 6.32969 AU
				morning rise		9120 Dec 09 04:29	12°♈14'54
conjunction	9115 May 27 23:33	10°♈28'08	-0°45'11	retrograde		9121 Apr 11 04:02	29°♈43'28
minimum elong	9115 May 27 23:32	10°♈28'08	0°45'27	opposition		9121 Jun 10 13:52	24°♈44'07 1°08'22
max. Earth dist.	9115 May 26 13:10	10°♈07'37	6.04209 AU	min. Earth dist.		9121 Jun 09 23:28	24°♈48'52 4.39940 AU
morning rise	9115 Jun 09 22:15	13°♈33'12		direct		9121 Aug 10 20:27	19°♈42'51
	9115 Aug 30 15:49	0°♈				9121 Nov 09 11:51	0°♈
retrograde	9115 Oct 17 15:51	3°♈30'36		evening set		9121 Dec 14 14:56	7°♈12'21
	9115 Dec 05 11:45	30°♈					
opposition	9115 Dec 16 13:20	28°♈33'36	-1°09'53	conjunction		9121 Dec 27 20:44	10°♈03'04 0°45'23
min. Earth dist.	9115 Dec 17 01:54	28°♈29'27	3.97339 AU	minimum elong		9121 Dec 27 20:44	10°♈03'04 0°45'39
direct	9116 Feb 13 16:05	23°♈38'20		max. Earth dist.		9121 Dec 28 04:18	10°♈07'09 6.45395 AU
	9116 Apr 18 08:15	0°♈		morning rise		9122 Jan 10 00:32	12°♈52'42
evening set	9116 Jun 19 03:19	13°♈31'21		retrograde		9122 May 10 22:10	29°♈38'53
				opposition		9122 Jul 10 17:42	24°♈42'47 0°59'08
conjunction	9116 Jul 02 07:13	16°♈43'48	-0°43'02	min. Earth dist.		9122 Jul 10 22:06	24°♈41'22 4.48915 AU
minimum elong	9116 Jul 02 07:14	16°♈43'49	0°43'18	direct		9122 Sep 10 23:07	19°♈41'09
max. Earth dist.	9116 Jul 02 07:32	16°♈44'00	5.92557 AU			9122 Dec 11 17:19	0°♈
morning rise	9116 Jul 15 13:08	19°♈57'34		evening set		9123 Jan 14 09:19	6°♈51'22

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conjunction	9123 Jan 27 10:05	9°≈38'16	0°33'28	minimum elong	9128 Jul 07 13:25	22°≈04'55	0°41'29
minimum elong	9123 Jan 27 10:06	9°≈38'17	0°33'41	max. Earth dist.	9128 Jul 07 17:27	22°≈07'23	5.91472 AU
max. Earth dist.	9123 Jan 26 12:48	9°≈26'53	6.50302 AU	morning rise	9128 Jul 20 20:38	25°≈19'45	
morning rise	9123 Feb 09 08:37	12°≈24'07			9128 Aug 09 09:49	0°♂	
	9123 Feb 21 16:59	15°≈			9128 Nov 02 18:35	15°♂	
retrograde	9123 Jun 09 15:29	28°≈57'48		retrograde	9128 Nov 30 00:16	16°♂12'26	
opposition	9123 Aug 09 15:33	24°≈04'02	0°34'57		9128 Dec 27 04:56	15°♂♂	
min. Earth dist.	9123 Aug 10 15:05	23°≈56'31	4.49548 AU	opposition	9129 Jan 28 10:53	11°♂11'37	-0°48'28
direct	9123 Oct 11 08:47	19°≈02'36		min. Earth dist.	9129 Jan 27 18:04	11°♂17'17	3.90043 AU
	9124 Jan 14 05:50	0°♂		direct	9129 Mar 27 10:05	6°♂17'01	
evening set	9124 Feb 13 12:31	6°♂15'49			9129 Jun 11 20:38	15°♂	
max. Earth dist.	9124 Feb 24 12:43	8°♂38'23	6.46570 AU	evening set	9129 Aug 01 08:33	26°♂25'49	
conjunction	9124 Feb 26 09:24	9°♂02'35	0°12'52	conjunction	9129 Aug 14 20:30	29°♂42'41	-0°19'42
minimum elong	9124 Feb 26 09:24	9°♂02'35	0°13'00	minimum elong	9129 Aug 14 20:31	29°♂42'42	0°19'51
behind sun begin	9124 Feb 26 04:32	8°♂59'58			9129 Aug 16 00:56	0°♂	
behind sun end	9124 Feb 26 14:16	9°♂05'12		max. Earth dist.	9129 Aug 16 13:27	0°♂07'37	5.91460 AU
morning rise	9124 Mar 10 04:27	11°♂48'35		morning rise	9129 Aug 28 10:49	3°♂00'44	
retrograde	9124 Jul 09 07:48	28°♂40'54		retrograde	9130 Jan 07 03:02	23°♂42'14	
opposition	9124 Sep 08 08:03	23°♂48'01	0°01'17	min. Earth dist.	9130 Mar 06 01:21	18°♂50'12	3.95671 AU
min. Earth dist.	9124 Sep 09 20:21	23°♂36'25	4.41669 AU	opposition	9130 Mar 07 11:33	18°♂38'34	-0°07'38
desc. node	9124 Sep 22 08:32	22°♂02'50		direct	9130 May 04 12:00	13°♂42'26	
direct	9124 Nov 09 20:21	18°♂47'17		asc. node	9130 May 14 15:59	13°♂53'12	
	9125 Feb 12 18:42	0°♂			9130 Aug 24 18:43	0°♂	
evening set	9125 Mar 15 01:08	6°♂25'54		evening set	9130 Sep 08 09:05	3°♂24'01	
max. Earth dist.	9125 Mar 25 13:07	8°♂45'37	6.35044 AU				
				conjunction	9130 Sep 22 00:48	6°♂37'33	0°09'27
conjunction	9125 Mar 27 19:57	9°♂16'09	-0°11'44	minimum elong	9130 Sep 22 00:48	6°♂37'33	0°09'29
minimum elong	9125 Mar 27 19:56	9°♂16'09	0°11'46	behind sun begin	9130 Sep 21 17:52	6°♂33'28	
behind sun begin	9125 Mar 27 14:18	9°♂13'01		behind sun end	9130 Sep 22 07:44	6°♂41'37	
behind sun end	9125 Mar 28 01:35	9°♂19'16		max. Earth dist.	9130 Sep 24 13:42	7°♂13'33	6.02086 AU
morning rise	9125 Apr 09 13:20	12°♂06'00		morning rise	9130 Oct 05 17:54	9°♂51'30	
retrograde	9125 Aug 10 22:52	29°♂46'41		retrograde	9131 Feb 11 17:30	29°♂32'21	
opposition	9125 Oct 10 18:12	24°♂53'27	-0°34'31	min. Earth dist.	9131 Apr 10 17:47	24°♂41'22	4.10031 AU
min. Earth dist.	9125 Oct 12 09:55	24°♂40'42	4.27139 AU	opposition	9131 Apr 12 08:47	24°♂28'09	0°34'08
direct	9125 Dec 11 09:58	19°♂54'14		direct	9131 Jun 10 04:44	19°♂29'41	
	9126 Mar 08 20:44	0°♂			9131 Sep 06 06:17	0°♂	
evening set	9126 Apr 15 22:42	8°♂17'01		evening set	9131 Oct 14 20:10	8°♂21'27	
max. Earth dist.	9126 Apr 26 13:20	10°♂43'40	6.18580 AU				
				conjunction	9131 Oct 28 10:35	11°♂26'46	0°33'48
conjunction	9126 Apr 28 17:30	11°♂13'50	-0°33'54	minimum elong	9131 Oct 28 10:33	11°♂26'46	0°33'59
minimum elong	9126 Apr 28 17:29	11°♂13'49	0°34'03	max. Earth dist.	9131 Oct 30 16:52	11°♂57'38	6.18765 AU
morning rise	9126 May 11 12:21	14°♂10'58		morning rise	9131 Nov 11 01:13	14°♂31'48	
	9126 May 15 01:49	15°♂			9131 Nov 13 03:23	15°♂	
	9126 Aug 01 06:18	0°♂			9132 Jan 31 18:15	0°♂	
retrograde	9126 Sep 15 06:30	3°♂03'06		retrograde	9132 Mar 15 13:59	2°♂55'59	
	9126 Oct 30 21:49	30°♂♂			9132 Apr 28 09:57	30°♂♂	
opposition	9126 Nov 14 14:45	28°♂08'17	-1°02'08	min. Earth dist.	9132 May 13 10:38	28°♂03'32	4.27360 AU
min. Earth dist.	9126 Nov 15 21:15	27°♂58'22	4.09887 AU	opposition	9132 May 14 15:49	27°♂53'46	1°01'09
direct	9127 Jan 13 22:58	23°♂11'12		direct	9132 Jul 13 19:38	22°♂53'23	
	9127 Mar 23 07:53	0°♂			9132 Sep 23 20:25	0°♂	
evening set	9127 May 19 23:16	12°♂26'46		evening set	9132 Nov 16 23:26	10°♂54'32	
conjunction	9127 Jun 01 21:41	15°♂32'16	-0°45'56	conjunction	9132 Nov 30 09:43	13°♂51'02	0°45'57
minimum elong	9127 Jun 01 21:41	15°♂32'16	0°46'12	minimum elong	9132 Nov 30 09:43	13°♂51'02	0°46'12
max. Earth dist.	9127 May 31 15:47	15°♂14'20	6.02045 AU	max. Earth dist.	9132 Dec 01 19:01	14°♂09'18	6.35338 AU
morning rise	9127 Jun 14 21:10	18°♂38'41		morning rise	9132 Dec 13 18:37	16°♂46'38	
	9127 Aug 05 00:53	0°♂			9133 Feb 21 06:43	0°♂	
retrograde	9127 Oct 23 02:08	8°♂45'55		retrograde	9133 Apr 15 07:35	4°♂06'36	
opposition	9127 Dec 21 21:01	3°♂48'32	-1°09'11		9133 Jun 08 04:16	30°♂♂	
min. Earth dist.	9127 Dec 22 06:32	3°♂45'23	3.95633 AU	opposition	9133 Jun 14 20:21	29°♂07'43	1°08'05
	9128 Jan 23 21:05	30°♂♂		min. Earth dist.	9133 Jun 14 07:42	29°♂11'52	4.41928 AU
direct	9128 Feb 18 18:58	28°♂53'28		direct	9133 Aug 15 06:27	24°♂06'22	
	9128 Mar 15 13:52	0°♂			9133 Oct 20 09:32	0°♂	
evening set	9128 Jun 24 08:37	18°♂51'28		evening set	9133 Dec 18 23:36	11°♂30'55	
conjunction	9128 Jul 07 13:24	22°≈04'54	-0°41'13	conjunction	9134 Jan 01 04:28	14°♂20'44	0°44'20

minimum elong	9134 Jan 01 04:29	14° ♁ 20'44	0°44'37	direct	9139 Jan 18 20:16	28° ♁ 13'15	
max. Earth dist.	9134 Jan 01 06:41	14° ♁ 21'56	6.46850 AU		9139 Feb 21 06:31	0° ♁	
morning rise	9134 Jan 14 07:31	17° ♁ 09'31		evening set	9139 May 24 23:53	17° ♁ 37'34	
	9134 Mar 24 09:04	0° ♁					
retrograde	9134 May 15 01:24	3° ♁ 51'19		conjunction	9139 Jun 06 22:58	20° ♁ 44'28	-0°46'22
	9134 Jul 06 12:07	30° ♁		minimum elong	9139 Jun 06 22:58	20° ♁ 44'28	0°46'37
opposition	9134 Jul 14 21:13	28° ♁ 55'38	0°56'30	max. Earth dist.	9139 Jun 05 20:19	20° ♁ 28'25	5.99703 AU
min. Earth dist.	9134 Jul 15 05:31	28° ♁ 52'57	4.49747 AU	morning rise	9139 Jun 19 23:38	23° ♁ 52'27	
direct	9134 Sep 15 06:25	23° ♁ 53'58			9139 Jul 16 05:12	0° ♁	
	9134 Nov 22 06:42	0° ♁		retrograde	9139 Oct 28 14:10	14° ♁ 10'09	
evening set	9135 Jan 18 13:35	11° ♁ 02'36		opposition	9139 Dec 27 07:43	9° ♁ 12'18	-1°07'54
				min. Earth dist.	9139 Dec 27 12:34	9° ♁ 10'41	3.93931 AU
conjunction	9135 Jan 31 13:45	13° ♁ 49'13	0°31'00	direct	9140 Feb 24 00:40	4° ♁ 17'26	
minimum elong	9135 Jan 31 13:46	13° ♁ 49'13	0°31'12	evening set	9140 Jun 29 17:20	24° ♁ 20'21	
max. Earth dist.	9135 Jan 30 12:05	13° ♁ 35'29	6.50435 AU				
	9135 Feb 06 02:02	15° ♁		conjunction	9140 Jul 12 23:21	27° ♁ 34'46	-0°39'00
morning rise	9135 Feb 13 11:42	16° ♁ 34'48		minimum elong	9140 Jul 12 23:22	27° ♁ 34'47	0°39'15
	9135 Apr 28 06:50	0° ♁		max. Earth dist.	9140 Jul 13 10:46	27° ♁ 41'46	5.90608 AU
retrograde	9135 Jun 13 18:41	3° ♁ 08'58			9140 Jul 22 20:38	0° ♁	
	9135 Jul 30 20:35	30° ♁		morning rise	9140 Jul 26 07:37	0° ♁ 50'33	
opposition	9135 Aug 13 19:32	28° ♁ 15'23	0°30'40		9140 Sep 28 20:07	15° ♁	
min. Earth dist.	9135 Aug 14 21:02	28° ♁ 07'13	4.48980 AU	retrograde	9140 Dec 05 14:31	21° ♁ 45'48	
direct	9135 Oct 15 12:21	23° ♁ 13'59		opposition	9141 Feb 02 23:30	16° ♁ 44'28	-0°43'24
	9135 Dec 26 11:19	0° ♁		min. Earth dist.	9141 Feb 02 03:53	16° ♁ 51'06	3.90124 AU
evening set	9136 Feb 17 16:35	10° ♁ 29'31			9141 Feb 16 03:55	15° ♁	
max. Earth dist.	9136 Feb 28 14:52	12° ♁ 51'27	6.45329 AU	direct	9141 Apr 01 22:16	11° ♁ 49'47	
					9141 May 15 21:38	15° ♁	
conjunction	9136 Mar 01 13:09	13° ♁ 16'36	0°09'34		9141 Jul 29 17:45	0° ♁	
minimum elong	9136 Mar 01 13:09	13° ♁ 16'36	0°09'41	evening set	9141 Aug 06 20:02	1° ♁ 56'41	
behind sun begin	9136 Mar 01 06:35	13° ♁ 13'03					
behind sun end	9136 Mar 01 19:43	13° ♁ 20'09		conjunction	9141 Aug 20 08:47	5° ♁ 13'27	-0°15'40
morning rise	9136 Mar 14 07:43	16° ♁ 02'55		minimum elong	9141 Aug 20 08:48	5° ♁ 13'28	0°15'48
	9136 May 29 08:58	0° ♁		behind sun begin	9141 Aug 20 07:39	5° ♁ 12'46	
retrograde	9136 Jul 13 17:02	3° ♁ 00'36		behind sun end	9141 Aug 20 09:57	5° ♁ 14'09	
desc. node	9136 Aug 02 23:58	2° ♁ 22'30		max. Earth dist.	9141 Aug 22 07:04	5° ♁ 41'32	5.92460 AU
	9136 Aug 28 15:15	30° ♁		morning rise	9141 Sep 02 23:50	8° ♁ 31'19	
opposition	9136 Sep 12 16:34	28° ♁ 07'48	-0°03'46	retrograde	9142 Jan 12 08:57	29° ♁ 05'54	
min. Earth dist.	9136 Sep 14 06:46	27° ♁ 55'37	4.39813 AU	min. Earth dist.	9142 Mar 11 05:31	24° ♁ 14'26	3.97460 AU
direct	9136 Nov 14 03:00	23° ♁ 07'15		opposition	9142 Mar 12 18:13	24° ♁ 01'57	-0°01'13
	9137 Jan 24 18:41	0° ♁		asc. node	9142 Mar 23 16:01	22° ♁ 34'21	
evening set	9137 Mar 19 08:57	10° ♁ 51'52		direct	9142 May 09 19:36	19° ♁ 05'30	
max. Earth dist.	9137 Mar 29 18:21	13° ♁ 10'57	6.32690 AU		9142 Aug 06 01:29	0° ♁	
				evening set	9142 Sep 13 16:42	8° ♁ 39'59	
conjunction	9137 Apr 01 03:31	13° ♁ 42'57	-0°15'07				
minimum elong	9137 Apr 01 03:31	13° ♁ 42'57	0°15'11	conjunction	9142 Sep 27 08:19	11° ♁ 52'23	0°13'28
behind sun begin	9137 Apr 01 00:39	13° ♁ 41'21		minimum elong	9142 Sep 27 08:18	11° ♁ 52'22	0°13'30
behind sun end	9137 Apr 01 06:22	13° ♁ 44'33		behind sun begin	9142 Sep 27 03:46	11° ♁ 49'43	
morning rise	9137 Apr 13 21:09	16° ♁ 33'49		behind sun end	9142 Sep 27 12:50	11° ♁ 55'01	
	9137 Jun 21 13:39	0° ♁		max. Earth dist.	9142 Sep 29 20:35	12° ♁ 27'48	6.04442 AU
retrograde	9137 Aug 15 17:41	4° ♁ 24'28		morning rise	9142 Oct 11 01:24	15° ♁ 05'08	
	9137 Oct 11 17:05	30° ♁			9142 Dec 23 10:18	0° ♁	
opposition	9137 Oct 15 11:04	29° ♁ 31'05	-0°39'09	retrograde	9143 Feb 16 12:06	4° ♁ 34'18	
min. Earth dist.	9137 Oct 17 02:32	29° ♁ 18'23	4.24428 AU		9143 Apr 13 13:39	30° ♁	
direct	9137 Dec 15 22:39	24° ♁ 32'07		min. Earth dist.	9143 Apr 15 15:42	29° ♁ 43'04	4.12677 AU
	9138 Feb 15 18:54	0° ♁		opposition	9143 Apr 17 05:44	29° ♁ 30'11	0°39'06
evening set	9138 Apr 20 13:35	13° ♁ 03'34		direct	9143 Jun 15 06:34	24° ♁ 31'21	
	9138 Apr 28 22:43	15° ♁			9143 Aug 15 06:20	0° ♁	
max. Earth dist.	9138 May 01 07:30	15° ♁ 33'01	6.15743 AU	evening set	9143 Oct 19 19:22	13° ♁ 14'39	
					9143 Oct 27 14:22	15° ♁	
conjunction	9138 May 03 08:55	16° ♁ 01'46	-0°36'22				
minimum elong	9138 May 03 08:54	16° ♁ 01'45	0°36'33	conjunction	9143 Nov 02 09:27	16° ♁ 18'36	0°36'21
morning rise	9138 May 16 04:08	19° ♁ 00'18		minimum elong	9143 Nov 02 09:26	16° ♁ 18'35	0°36'33
	9138 Jul 06 06:59	0° ♁		max. Earth dist.	9143 Nov 04 14:37	16° ♁ 48'38	6.21475 AU
retrograde	9138 Sep 20 11:40	8° ♁ 04'57		morning rise	9143 Nov 15 23:11	19° ♁ 22'04	
opposition	9138 Nov 19 17:34	3° ♁ 09'56	-1°04'38		9144 Jan 06 05:31	0° ♁	
min. Earth dist.	9138 Nov 20 21:59	3° ♁ 00'41	4.07171 AU	retrograde	9144 Mar 20 00:10	7° ♁ 35'10	
	9138 Dec 16 02:15	30° ♁		min. Earth dist.	9144 May 18 00:28	2° ♁ 42'32	4.29896 AU

opposition	9144 May 19 03:53	2°♏33'24	1°03'20	retrograde	9149 Aug 20 15:46	9°♏09'52	
	9144 Jun 08 08:42	30°♏♏		opposition	9149 Oct 20 07:24	4°♏16'24	-0°43'41
direct	9144 Jul 18 12:34	27°♏32'51		min. Earth dist.	9149 Oct 21 22:32	4°♏03'48	4.21808 AU
	9144 Aug 28 01:01	0°♏			9149 Nov 29 08:40	30°♏♏	
evening set	9144 Nov 21 14:08	15°♏27'03		direct	9149 Dec 20 15:10	29°♏17'47	
					9150 Jan 10 20:11	0°♏	
conjunction	9144 Dec 04 23:30	18°♏22'20	0°46'30		9150 Apr 12 10:15	15°♏	
minimum elong	9144 Dec 04 23:29	18°♏22'20	0°46'46	evening set	9150 Apr 25 07:47	17°♏57'22	
max. Earth dist.	9144 Dec 06 03:10	18°♏37'27	6.37503 AU	max. Earth dist.	9150 May 06 03:10	20°♏28'36	6.13155 AU
morning rise	9144 Dec 18 07:42	21°♏16'45					
	9145 Jan 29 23:58	0°♏		conjunction	9150 May 08 03:21	20°♏56'48	-0°38'39
retrograde	9145 Apr 19 12:53	8°♏29'14		minimum elong	9150 May 08 03:20	20°♏56'47	0°38'52
opposition	9145 Jun 19 02:43	3°♏30'48	1°07'26	morning rise	9150 May 20 23:18	23°♏56'43	
min. Earth dist.	9145 Jun 18 17:40	3°♏33'46	4.43594 AU		9150 Jun 16 16:09	0°♏	
	9145 Jul 19 00:40	30°♏♏		retrograde	9150 Sep 25 18:35	13°♏12'55	
direct	9145 Aug 19 17:31	28°♏29'18		opposition	9150 Nov 24 23:07	8°♏17'33	-1°06'43
	9145 Sep 20 18:31	0°♏		min. Earth dist.	9150 Nov 25 23:44	8°♏09'30	4.04866 AU
evening set	9145 Dec 23 07:51	15°♏49'59		direct	9151 Jan 23 20:22	3°♏21'12	
				evening set	9151 May 30 02:23	22°♏52'28	
conjunction	9146 Jan 05 12:10	18°♏39'08	0°43'04	max. Earth dist.	9151 Jun 11 06:28	25°♏48'32	5.97929 AU
minimum elong	9146 Jan 05 12:11	18°♏39'08	0°43'20				
max. Earth dist.	9146 Jan 05 11:07	18°♏38'34	6.47909 AU	conjunction	9151 Jun 12 02:25	26°♏00'36	-0°46'26
morning rise	9146 Jan 18 14:17	21°♏27'11		minimum elong	9151 Jun 12 02:25	26°♏00'36	0°46'43
	9146 Mar 02 05:09	0°♏		morning rise	9151 Jun 25 03:55	29°♏09'50	
retrograde	9146 May 19 03:26	8°♏05'59			9151 Jun 28 15:38	0°♏	
opposition	9146 Jul 19 01:20	3°♏10'38	0°53'33	retrograde	9151 Nov 03 04:06	19°♏35'24	
min. Earth dist.	9146 Jul 19 11:38	3°♏07'19	4.50159 AU	opposition	9152 Jan 01 19:23	14°♏37'04	-1°06'02
	9146 Aug 14 20:13	30°♏♏		min. Earth dist.	9152 Jan 01 21:03	14°♏36'31	3.92909 AU
direct	9146 Sep 19 11:52	28°♏08'58		direct	9152 Feb 29 09:20	9°♏42'25	
	9146 Oct 25 11:10	0°♏		evening set	9152 Jul 05 01:53	29°♏47'17	
	9147 Jan 21 10:33	15°♏			9152 Jul 05 22:45	0°♏	
evening set	9147 Jan 22 19:08	15°♏17'17					
				conjunction	9152 Jul 18 08:49	3°♏02'16	-0°36'30
conjunction	9147 Feb 04 18:38	18°♏03'45	0°28'20	minimum elong	9152 Jul 18 08:51	3°♏02'17	0°36'44
minimum elong	9147 Feb 04 18:39	18°♏03'45	0°28'32	max. Earth dist.	9152 Jul 19 02:00	3°♏12'47	5.90438 AU
max. Earth dist.	9147 Feb 03 12:52	17°♏47'48	6.50170 AU	morning rise	9152 Jul 31 18:13	6°♏18'37	
morning rise	9147 Feb 17 16:04	20°♏49'14			9152 Sep 07 01:18	15°♏	
	9147 Apr 04 19:11	0°♏		retrograde	9152 Dec 11 00:37	27°♏13'09	
retrograde	9147 Jun 18 01:33	7°♏25'05		min. Earth dist.	9153 Feb 07 10:05	22°♏19'22	3.90860 AU
opposition	9147 Aug 18 01:44	2°♏31'42	0°26'09	opposition	9153 Feb 08 09:43	22°♏11'22	-0°38'05
min. Earth dist.	9147 Aug 19 06:31	2°♏22'30	4.48051 AU	direct	9153 Apr 07 07:06	17°♏16'33	
	9147 Sep 07 19:42	30°♏♏			9153 Jul 11 19:09	0°♏	
direct	9147 Oct 19 19:44	27°♏30'20		evening set	9153 Aug 12 05:03	7°♏19'19	
	9147 Nov 30 18:04	0°♏					
evening set	9148 Feb 21 22:43	14°♏49'03		conjunction	9153 Aug 25 18:15	10°♏35'35	-0°11'39
max. Earth dist.	9148 Mar 03 17:17	17°♏09'30	6.43789 AU	minimum elong	9153 Aug 25 18:16	10°♏35'36	0°11'45
				behind sun begin	9153 Aug 25 12:25	10°♏32'05	
conjunction	9148 Mar 05 18:55	17°♏36'33	0°06'09	behind sun end	9153 Aug 26 00:07	10°♏39'07	
minimum elong	9148 Mar 05 18:56	17°♏36'34	0°06'13	max. Earth dist.	9153 Aug 27 18:45	11°♏04'54	5.93994 AU
behind sun begin	9148 Mar 05 11:22	17°♏32'28		morning rise	9153 Sep 08 09:53	13°♏52'55	
behind sun end	9148 Mar 06 02:29	17°♏40'40			9153 Nov 25 08:25	0°♏	
morning rise	9148 Mar 18 13:21	20°♏23'24		retrograde	9154 Jan 17 09:11	4°♏18'46	
	9148 May 05 01:56	0°♏		asc. node	9154 Feb 01 05:34	3°♏56'34	
desc. node	9148 Jun 12 06:21	5°♏31'13			9154 Mar 12 06:57	30°♏♏	
retrograde	9148 Jul 18 04:55	7°♏27'27		min. Earth dist.	9154 Mar 16 07:09	29°♏27'23	3.99597 AU
opposition	9148 Sep 17 04:23	2°♏34'36	-0°08'57	opposition	9154 Mar 17 20:40	29°♏14'37	0°04'57
min. Earth dist.	9148 Sep 18 18:56	2°♏22'16	4.37752 AU	direct	9154 May 15 01:09	24°♏17'49	
	9148 Oct 08 08:58	30°♏♏			9154 Jul 15 05:24	0°♏	
direct	9148 Nov 18 11:42	27°♏34'11		evening set	9154 Sep 18 19:52	13°♏44'25	
	9148 Dec 29 09:30	0°♏					
evening set	9149 Mar 23 19:31	15°♏25'11		conjunction	9154 Oct 02 11:36	16°♏55'38	0°17'13
max. Earth dist.	9149 Apr 03 06:14	17°♏45'43	6.30264 AU	minimum elong	9154 Oct 02 11:35	16°♏55'37	0°17'17
				max. Earth dist.	9154 Oct 05 00:50	17°♏31'24	6.06973 AU
conjunction	9149 Apr 05 14:10	18°♏17'13	-0°18'31	morning rise	9154 Oct 16 04:15	20°♏07'02	
minimum elong	9149 Apr 05 14:09	18°♏17'13	0°18'35		9154 Nov 30 13:11	0°♏	
morning rise	9149 Apr 18 07:43	21°♏09'03		retrograde	9155 Feb 21 03:57	9°♏24'32	
	9149 May 30 00:48	0°♏		min. Earth dist.	9155 Apr 20 09:45	4°♏33'07	4.15330 AU

opposition	9155 Apr 21 22:28	4°♍20'43	0°43'34	conjunction	9161 Apr 10 01:20	22°♏54'09	-0°21'48
	9155 May 31 11:18	30°♋♏		minimum elong	9161 Apr 10 01:19	22°♏54'08	0°21'53
direct	9155 Jun 20 03:59	29°♏21'39		morning rise	9161 Apr 22 19:09	25°♏46'59	
	9155 Jul 09 23:56	0°♍			9161 May 11 20:10	0°♏	
	9155 Oct 11 06:28	15°♍		retrograde	9161 Aug 25 12:56	13°♏57'28	
evening set	9155 Oct 24 14:16	17°♍56'56		opposition	9161 Oct 25 04:07	9°♏03'44	-0°47'54
				min. Earth dist.	9161 Oct 26 16:52	8°♏51'52	4.19446 AU
conjunction	9155 Nov 07 03:38	20°♍59'30	0°38'34	direct	9161 Dec 25 06:50	4°♏05'23	
minimum elong	9155 Nov 07 03:37	20°♍59'30	0°38'46		9162 Mar 25 18:11	15°♏	
max. Earth dist.	9155 Nov 09 04:45	21°♍27'05	6.24009 AU	evening set	9162 Apr 30 01:39	22°♏51'57	
morning rise	9155 Nov 20 16:49	24°♍01'36		max. Earth dist.	9162 May 11 01:55	25°♏26'45	6.10928 AU
	9155 Dec 18 08:07	0°♏					
retrograde	9156 Mar 24 06:43	12°♏04'55		conjunction	9162 May 12 21:41	25°♏52'30	-0°40'39
min. Earth dist.	9156 May 22 11:30	7°♏11'55	4.32128 AU	minimum elong	9162 May 12 21:40	25°♏52'29	0°40'53
opposition	9156 May 23 12:25	7°♏03'38	1°05'04	morning rise	9162 May 25 18:03	28°♏53'35	
direct	9156 Jul 23 01:26	2°♏02'54			9162 May 30 12:00	0°♐	
evening set	9156 Nov 26 01:23	19°♏51'34		retrograde	9162 Oct 01 01:59	18°♐19'48	
				opposition	9162 Nov 30 03:49	13°♐24'03	-1°08'13
conjunction	9156 Dec 09 10:11	22°♏45'52	0°46'48	min. Earth dist.	9162 Dec 01 02:26	13°♐16'38	4.02957 AU
minimum elong	9156 Dec 09 10:11	22°♏45'52	0°47'05	direct	9163 Jan 28 21:10	8°♐27'59	
max. Earth dist.	9156 Dec 10 10:25	22°♏59'04	6.39284 AU	evening set	9163 Jun 04 03:38	28°♐04'36	
morning rise	9156 Dec 22 17:23	25°♏39'13			9163 Jun 12 02:44	0°♑	
	9157 Jan 12 06:09	0°♑					
retrograde	9157 Apr 23 15:43	12°♑45'49		conjunction	9163 Jun 17 04:27	1°♑13'45	-0°46'07
opposition	9157 Jun 23 06:37	7°♑47'58	1°06'30	minimum elong	9163 Jun 17 04:27	1°♑13'46	0°46'25
min. Earth dist.	9157 Jun 23 00:18	7°♑50'02	4.44828 AU	max. Earth dist.	9163 Jun 16 12:25	1°♑04'03	5.96507 AU
direct	9157 Aug 24 00:35	2°♑46'30		morning rise	9163 Jun 30 07:01	4°♑24'06	
evening set	9157 Dec 27 14:19	20°♑04'52		retrograde	9163 Nov 08 12:58	24°♑55'46	
				opposition	9164 Jan 07 04:05	19°♑56'57	-1°03'36
conjunction	9158 Jan 09 17:49	22°♑53'31	0°41'37	min. Earth dist.	9164 Jan 07 01:27	19°♑57'50	3.92147 AU
minimum elong	9158 Jan 09 17:50	22°♑53'31	0°41'53	direct	9164 Mar 05 14:02	15°♑02'22	
max. Earth dist.	9158 Jan 09 10:54	22°♑49'49	6.48513 AU		9164 Jun 18 19:16	0°♒	
morning rise	9158 Jan 22 19:25	25°♑41'08		evening set	9164 Jul 10 08:19	5°♒08'35	
	9158 Feb 12 12:04	0°♒					
retrograde	9158 May 23 07:27	12°♒18'35		conjunction	9164 Jul 23 16:10	8°♒24'01	-0°33'43
opposition	9158 Jul 23 04:52	7°♒23'39	0°50'27	minimum elong	9164 Jul 23 16:11	8°♒24'02	0°33'57
min. Earth dist.	9158 Jul 23 18:46	7°♒19'10	4.50127 AU	max. Earth dist.	9164 Jul 24 13:32	8°♒37'06	5.90404 AU
direct	9158 Sep 23 17:38	2°♒21'59		morning rise	9164 Aug 06 02:37	11°♒40'51	
	9159 Jan 05 06:13	15°♒			9164 Aug 19 22:11	15°♒	
evening set	9159 Jan 26 23:45	19°♒31'20			9164 Nov 06 01:26	0°♓	
				retrograde	9164 Dec 16 07:32	2°♓34'12	
conjunction	9159 Feb 08 22:55	22°♒17'53	0°25'35		9165 Jan 25 15:21	30°♓♒	
minimum elong	9159 Feb 08 22:56	22°♒17'54	0°25'46	opposition	9165 Feb 13 16:51	27°♒31'56	-0°32'32
max. Earth dist.	9159 Feb 07 14:43	22°♒00'36	6.49511 AU	min. Earth dist.	9165 Feb 12 14:57	27°♒40'43	3.91553 AU
morning rise	9159 Feb 21 19:46	25°♒03'27		direct	9165 Apr 12 14:43	22°♒36'51	
	9159 Mar 17 13:18	0°♓			9165 Jun 21 08:57	0°♓	
retrograde	9159 Jun 22 06:44	11°♓42'19		evening set	9165 Aug 17 11:36	12°♓36'02	
opposition	9159 Aug 22 08:09	6°♓49'06	0°21'33				
min. Earth dist.	9159 Aug 23 13:46	6°♓39'38	4.46827 AU	conjunction	9165 Aug 31 01:37	15°♓51'59	-0°07'34
direct	9159 Oct 24 00:23	1°♓47'53		minimum elong	9165 Aug 31 01:37	15°♓51'59	0°07'39
evening set	9160 Feb 26 05:20	19°♓10'40		behind sun begin	9165 Aug 30 18:03	15°♓47'27	
max. Earth dist.	9160 Mar 07 22:35	21°♓30'59	6.42089 AU	behind sun end	9165 Aug 31 09:11	15°♓56'31	
				max. Earth dist.	9165 Sep 02 06:11	16°♓23'38	5.95349 AU
conjunction	9160 Mar 10 01:12	21°♓58'42	0°02'42	morning rise	9165 Sep 13 17:34	19°♓08'48	
minimum elong	9160 Mar 10 01:10	21°♓58'41	0°02'46		9165 Nov 01 07:32	0°♔	
behind sun begin	9160 Mar 09 17:13	21°♓54'21		asc. node	9165 Dec 12 12:30	6°♔48'32	
behind sun end	9160 Mar 10 09:08	22°♓03'01		retrograde	9166 Jan 22 09:52	9°♔26'48	
morning rise	9160 Mar 22 19:21	24°♓46'06		min. Earth dist.	9166 Mar 21 07:26	4°♔35'22	4.01445 AU
	9160 Apr 16 10:25	0°♕		opposition	9166 Mar 22 21:09	4°♔22'33	0°11'00
desc. node	9160 Apr 21 16:35	1°♕03'50			9166 May 01 18:26	30°♓♓	
retrograde	9160 Jul 22 19:01	11°♕56'59		direct	9166 May 20 04:16	29°♕25'26	
opposition	9160 Sep 21 17:00	7°♕04'09	-0°14'05		9166 Jun 07 16:13	0°♔	
min. Earth dist.	9160 Sep 23 08:52	6°♕51'24	4.35674 AU	evening set	9166 Sep 23 22:08	18°♔45'31	
direct	9160 Nov 22 22:54	2°♕03'58					
evening set	9161 Mar 28 06:45	20°♕01'12		conjunction	9166 Oct 07 13:41	21°♔55'41	0°20'50
max. Earth dist.	9161 Apr 07 16:48	22°♕22'10	6.27963 AU	minimum elong	9166 Oct 07 13:40	21°♔55'40	0°20'56
				max. Earth dist.	9166 Oct 10 01:38	22°♔30'31	6.09118 AU

morning rise	9166 Oct 21 06:15	25°♌05'59		direct	9172 Nov 27 07:35	6°♏31'22	
	9166 Nov 11 23:48	0°♌		evening set	9173 Apr 01 16:19	24°♏32'39	
retrograde	9167 Feb 25 17:48	14°♌13'20		max. Earth dist.	9173 Apr 12 03:54	26°♏55'01	6.26321 AU
min. Earth dist.	9167 Apr 25 02:21	9°♌21'55	4.17565 AU				
opposition	9167 Apr 26 14:26	9°♌09'44	0°47'45	conjunction	9173 Apr 14 10:46	27°♏26'11	-0°24'50
direct	9167 Jun 24 23:28	4°♌10'21		minimum elong	9173 Apr 14 10:45	27°♏26'11	0°24'57
	9167 Sep 23 14:49	15°♌			9173 Apr 25 17:42	0°♏	
evening set	9167 Oct 29 09:31	22°♌39'13		morning rise	9173 Apr 27 04:34	0°♏19'43	
					9173 Jul 11 19:06	15°♏	
conjunction	9167 Nov 11 22:27	25°♌40'40	0°40'32	retrograde	9173 Aug 30 09:13	18°♏37'46	
minimum elong	9167 Nov 11 22:26	25°♌40'39	0°40'45		9173 Oct 19 23:27	15°♏♏	
max. Earth dist.	9167 Nov 13 20:32	26°♌06'27	6.26164 AU	opposition	9173 Oct 29 22:16	13°♏43'51	-0°51'37
morning rise	9167 Nov 25 10:49	28°♌41'31		min. Earth dist.	9173 Oct 31 10:48	13°♏32'02	4.17708 AU
	9167 Dec 01 09:05	0°♏		direct	9173 Dec 29 22:27	8°♏45'48	
retrograde	9168 Mar 28 16:11	16°♏36'16			9174 Mar 05 18:02	15°♏	
opposition	9168 May 27 21:55	11°♏35'29	1°06'26	evening set	9174 May 04 16:12	27°♏37'20	
min. Earth dist.	9168 May 26 23:47	11°♏42'49	4.34031 AU		9174 May 14 18:53	0°♐	
direct	9168 Jul 27 15:34	6°♏34'38		max. Earth dist.	9174 May 15 18:21	0°♐13'51	6.09238 AU
evening set	9168 Nov 30 13:59	24°♏18'38					
				conjunction	9174 May 17 12:33	0°♐38'45	-0°42'16
conjunction	9168 Dec 13 22:02	27°♏12'04	0°46'49	minimum elong	9174 May 17 12:32	0°♐38'44	0°42'30
minimum elong	9168 Dec 13 22:02	27°♏12'04	0°47'06	morning rise	9174 May 30 09:31	3°♐40'49	
max. Earth dist.	9168 Dec 14 17:42	27°♏22'44	6.40800 AU	retrograde	9174 Oct 06 01:54	23°♐15'09	
	9168 Dec 26 20:08	0°♑		opposition	9174 Dec 05 03:34	18°♐19'04	-1°09'06
morning rise	9168 Dec 27 04:35	0°♑04'33		min. Earth dist.	9174 Dec 05 22:54	18°♐12'43	4.01476 AU
retrograde	9169 Apr 27 20:33	17°♑06'02		direct	9175 Feb 02 15:30	13°♐23'15	
opposition	9169 Jun 27 12:31	12°♑08'37	1°05'11		9175 May 27 03:22	0°♑	
min. Earth dist.	9169 Jun 27 08:39	12°♑09'53	4.45898 AU	evening set	9175 Jun 09 00:05	3°♑04'09	
direct	9169 Aug 28 08:51	7°♑07'07					
evening set	9169 Dec 31 22:22	24°♑23'25		conjunction	9175 Jun 22 01:39	6°♑14'13	-0°45'28
				minimum elong	9175 Jun 22 01:39	6°♑14'13	0°45'45
conjunction	9170 Jan 14 01:21	27°♑11'38	0°39'55	max. Earth dist.	9175 Jun 21 13:22	6°♑06'45	5.95372 AU
minimum elong	9170 Jan 14 01:22	27°♑11'38	0°40'10	morning rise	9175 Jul 05 05:10	9°♑25'31	
max. Earth dist.	9170 Jan 13 16:22	27°♑06'49	6.49100 AU		9175 Nov 08 14:14	0°♒	
morning rise	9170 Jan 27 02:04	29°♑58'45		retrograde	9175 Nov 13 17:32	0°♒02'38	
	9170 Jan 27 04:25	0°♒			9175 Nov 18 20:41	30°♒♑	
	9170 Apr 25 03:36	15°♒		opposition	9176 Jan 12 07:15	25°♑03'23	-1°00'47
retrograde	9170 May 27 11:25	16°♒34'42		min. Earth dist.	9176 Jan 12 02:21	25°♑05'01	3.91475 AU
	9170 Jun 28 19:23	15°♒♒		direct	9176 Mar 10 15:34	20°♑08'48	
opposition	9170 Jul 27 10:11	11°♒40'10	0°47'00		9176 May 31 16:33	0°♒	
min. Earth dist.	9170 Jul 28 01:40	11°♒35'11	4.50234 AU	evening set	9176 Jul 15 09:20	10°♒16'31	
direct	9170 Sep 27 23:58	6°♒38'40					
	9170 Dec 18 05:27	15°♒		conjunction	9176 Jul 28 18:18	13°♒32'32	-0°30'48
evening set	9171 Jan 31 06:05	23°♒48'18		minimum elong	9176 Jul 28 18:19	13°♒32'32	0°31'02
max. Earth dist.	9171 Feb 11 16:53	26°♒15'35	6.49153 AU	max. Earth dist.	9176 Jul 29 20:43	13°♒48'41	5.90277 AU
					9176 Aug 03 17:18	15°♒	
conjunction	9171 Feb 13 04:31	26°♒34'45	0°22'40	morning rise	9176 Aug 11 05:36	16°♒49'50	
minimum elong	9171 Feb 13 04:32	26°♒34'45	0°22'50		9176 Oct 09 13:02	0°♓	
morning rise	9171 Feb 26 01:00	29°♒20'18		retrograde	9176 Dec 21 10:43	7°♓42'46	
	9171 Mar 01 03:27	0°♓		opposition	9177 Feb 18 18:40	2°♓40'13	-0°27'01
retrograde	9171 Jun 26 15:15	16°♓01'06		min. Earth dist.	9177 Feb 17 15:22	2°♓49'28	3.91999 AU
opposition	9171 Aug 26 15:52	11°♓08'03	0°16'48		9177 Mar 11 15:28	30°♓♒	
min. Earth dist.	9171 Aug 27 23:35	10°♓57'55	4.46040 AU	direct	9177 Apr 17 15:45	27°♒44'58	
direct	9171 Oct 28 08:47	6°♓06'59			9177 May 24 11:34	0°♓	
evening set	9172 Mar 01 11:54	23°♓32'06		evening set	9177 Aug 22 14:07	17°♓42'11	
desc. node	9172 Mar 01 16:03	23°♓34'22					
max. Earth dist.	9172 Mar 12 03:59	25°♓52'10	6.40934 AU	conjunction	9177 Sep 05 04:35	20°♓57'56	-0°03'39
				minimum elong	9177 Sep 05 04:34	20°♓57'55	0°03'43
conjunction	9172 Mar 14 07:30	26°♓20'27	-0°00'49	behind sun begin	9177 Sep 04 20:16	20°♓52'58	
minimum elong	9172 Mar 14 07:29	26°♓20'27	0°00'47	behind sun end	9177 Sep 05 12:53	21°♓02'53	
behind sun begin	9172 Mar 13 23:31	26°♓16'05		max. Earth dist.	9177 Sep 07 10:06	21°♓30'03	5.96304 AU
behind sun end	9172 Mar 14 15:28	26°♓24'48		morning rise	9177 Sep 18 21:11	24°♓14'31	
morning rise	9172 Mar 27 01:20	29°♓08'12			9177 Oct 13 16:29	0°♔	
	9172 Mar 31 00:26	0°♔		asc. node	9177 Oct 24 14:48	2°♔24'03	
retrograde	9172 Jul 27 06:05	16°♔24'11		retrograde	9178 Jan 27 05:18	14°♔26'34	
opposition	9172 Sep 26 05:08	11°♔31'17	-0°19'02	min. Earth dist.	9178 Mar 26 02:53	9°♔35'28	4.02810 AU
min. Earth dist.	9172 Sep 27 20:01	11°♔18'50	4.34224 AU	opposition	9178 Mar 27 17:38	9°♔22'17	0°16'40

direct	9178 May 25 02:22	4°♎24'51		conjunction	9184 Mar 18 13:53	0°♎43'06	-0°04'21
evening set	9178 Sep 28 21:37	23°♎40'39		minimum elong	9184 Mar 18 13:53	0°♎43'06	0°04'19
				behind sun begin	9184 Mar 18 06:03	0°♎38'48	
conjunction	9178 Oct 12 13:12	26°♎50'04	0°24'09	behind sun end	9184 Mar 18 21:43	0°♎47'23	
minimum elong	9178 Oct 12 13:11	26°♎50'03	0°24'16	morning rise	9184 Mar 31 07:38	3°♎31'22	
max. Earth dist.	9178 Oct 15 00:10	27°♎24'13	6.10778 AU	retrograde	9184 Jul 31 21:23	20°♎53'55	
morning rise	9178 Oct 26 05:29	29°♎59'28		opposition	9184 Sep 30 18:22	16°♎00'55	-0°24'02
	9178 Oct 26 06:24	0°♎		min. Earth dist.	9184 Oct 02 10:37	15°♎48'01	4.32238 AU
	9179 Jan 10 00:42	15°♎		direct	9184 Dec 01 18:59	11°♎01'07	
retrograde	9179 Mar 02 08:56	18°♎58'46		evening set	9185 Apr 06 03:31	29°♎08'23	
	9179 Apr 23 03:43	15°♎			9185 Apr 09 22:33	0°♎	
min. Earth dist.	9179 Apr 29 18:46	14°♎06'56	4.19346 AU	max. Earth dist.	9185 Apr 16 15:29	1°♎31'40	6.24055 AU
opposition	9179 May 01 04:54	13°♎55'26	0°51'26				
direct	9179 Jun 29 18:20	8°♎55'48		conjunction	9185 Apr 18 22:08	2°♎02'51	-0°27'50
	9179 Sep 02 22:09	15°♎		minimum elong	9185 Apr 18 22:07	2°♎02'51	0°27'59
evening set	9179 Nov 03 03:25	27°♎19'43		morning rise	9185 May 01 16:08	4°♎57'23	
	9179 Nov 15 03:37	0°♎			9185 Jun 17 21:02	15°♎	
				retrograde	9185 Sep 04 06:46	23°♎25'18	
conjunction	9179 Nov 16 15:53	0°♎20'12	0°42'10	opposition	9185 Nov 03 19:21	18°♎31'08	-0°55'14
minimum elong	9179 Nov 16 15:52	0°♎20'12	0°42'25	min. Earth dist.	9185 Nov 05 05:48	18°♎19'58	4.15329 AU
max. Earth dist.	9179 Nov 18 12:11	0°♎44'53	6.27924 AU		9185 Dec 04 01:33	15°♎	
morning rise	9179 Nov 30 03:36	3°♎20'02		direct	9186 Jan 03 13:34	13°♎33'21	
retrograde	9180 Apr 01 23:04	21°♎07'29			9186 Feb 02 22:54	15°♎	
min. Earth dist.	9180 May 31 09:50	16°♎14'01	4.35645 AU		9186 Apr 28 13:12	0°♎	
opposition	9180 Jun 01 06:54	16°♎07'03	1°07'19	evening set	9186 May 09 10:38	2°♎32'15	
direct	9180 Aug 01 03:01	11°♎06'02		max. Earth dist.	9186 May 20 16:19	5°♎11'39	6.06947 AU
evening set	9180 Dec 05 02:14	28°♎46'00					
	9180 Dec 10 19:29	0°♎		conjunction	9186 May 22 07:26	5°♎34'52	-0°43'41
				minimum elong	9186 May 22 07:26	5°♎34'52	0°43'56
conjunction	9180 Dec 18 09:36	1°♎38'37	0°46'31	morning rise	9186 Jun 04 05:09	8°♎38'16	
minimum elong	9180 Dec 18 09:36	1°♎38'37	0°46'48	retrograde	9186 Oct 11 09:20	28°♎23'10	
max. Earth dist.	9180 Dec 19 02:02	1°♎47'31	6.42157 AU	opposition	9186 Dec 10 08:48	23°♎26'41	-1°09'37
morning rise	9180 Dec 31 15:16	4°♎30'13		min. Earth dist.	9186 Dec 11 01:48	23°♎21'05	3.99477 AU
retrograde	9181 May 02 02:09	21°♎26'44		direct	9187 Feb 07 17:13	18°♎31'04	
opposition	9181 Jul 01 18:19	16°♎29'43	1°03'27		9187 May 09 07:20	0°♎	
min. Earth dist.	9181 Jul 01 17:14	16°♎30'04	4.46894 AU	evening set	9187 Jun 14 02:34	8°♎18'04	
direct	9181 Sep 01 18:29	11°♎28'07					
evening set	9182 Jan 05 06:06	28°♎42'06		conjunction	9187 Jun 27 05:15	11°♎29'19	-0°44'26
	9182 Jan 11 08:21	0°♎		minimum elong	9187 Jun 27 05:16	11°♎29'19	0°44'43
				max. Earth dist.	9187 Jun 26 22:35	11°♎25'15	5.93878 AU
conjunction	9182 Jan 18 08:19	1°♎29'50	0°37'58	morning rise	9187 Jul 10 09:48	14°♎41'50	
minimum elong	9182 Jan 18 08:20	1°♎29'50	0°38'14		9187 Sep 20 00:40	0°♎	
max. Earth dist.	9182 Jan 17 19:01	1°♎22'43	6.49634 AU	retrograde	9187 Nov 19 05:25	5°♎25'13	
morning rise	9182 Jan 31 08:28	4°♎16'29		opposition	9188 Jan 17 16:45	0°♎25'33	-0°57'19
	9182 Mar 27 17:13	15°♎		min. Earth dist.	9188 Jan 17 08:37	0°♎28'17	3.90682 AU
retrograde	9182 May 31 16:15	20°♎50'54			9188 Jan 20 21:02	30°♎	
opposition	9182 Jul 31 15:26	15°♎56'30	0°43'16	direct	9188 Mar 15 21:34	25°♎31'02	
min. Earth dist.	9182 Aug 01 09:14	15°♎50'48	4.50256 AU		9188 May 07 20:59	0°♎	
	9182 Aug 08 00:26	15°♎			9188 Jul 17 22:53	15°♎	
direct	9182 Oct 02 06:28	10°♎54'55		evening set	9188 Jul 20 17:43	15°♎40'33	
	9182 Nov 25 22:39	15°♎					
evening set	9183 Feb 04 11:33	28°♎04'48		conjunction	9188 Aug 03 03:32	18°♎57'02	-0°27'28
	9183 Feb 13 10:27	0°♎		minimum elong	9188 Aug 03 03:33	18°♎57'02	0°27'40
max. Earth dist.	9183 Feb 15 20:35	0°♎31'18	6.48632 AU	max. Earth dist.	9188 Aug 04 09:24	19°♎15'17	5.90257 AU
				morning rise	9188 Aug 16 16:02	22°♎14'51	
conjunction	9183 Feb 17 09:37	0°♎51'14	0°19'35		9188 Sep 18 19:04	0°♎	
minimum elong	9183 Feb 17 09:38	0°♎51'15	0°19'44	retrograde	9188 Dec 26 17:28	13°♎06'03	
morning rise	9183 Mar 02 05:25	3°♎36'46		min. Earth dist.	9189 Feb 22 19:44	8°♎13'33	3.92774 AU
retrograde	9183 Jun 30 21:46	20°♎19'59		opposition	9189 Feb 24 02:20	8°♎03'09	-0°20'57
opposition	9183 Aug 30 23:30	15°♎26'59	0°11'54	direct	9189 Apr 22 22:59	3°♎07'42	
min. Earth dist.	9183 Sep 01 08:14	15°♎16'32	4.44977 AU	evening set	9189 Aug 27 22:29	23°♎01'22	
direct	9183 Nov 01 14:51	10°♎26'01		asc. node	9189 Sep 02 05:40	24°♎17'09	
desc. node	9184 Jan 09 16:20	16°♎47'06					
evening set	9184 Mar 05 18:46	27°♎54'21		conjunction	9189 Sep 10 13:29	26°♎16'38	0°00'37
	9184 Mar 15 07:42	0°♎		minimum elong	9189 Sep 10 13:29	26°♎16'37	0°00'35
max. Earth dist.	9184 Mar 16 08:20	0°♎13'35	6.39377 AU	behind sun begin	9189 Sep 10 05:06	26°♎11'38	
				behind sun end	9189 Sep 10 21:52	26°♎21'37	

max. Earth dist.	9189 Sep 12 21:45	26° \mathbb{M} 50'16	5.97814 AU		9196 Feb 28 16:19	0° Υ	
morning rise	9189 Sep 24 06:20	29° \mathbb{M} 32'35		evening set	9196 Mar 10 00:15	2° Υ 14'46	
	9189 Sep 26 04:42	0° $\underline{\mathbf{A}}$		max. Earth dist.	9196 Mar 20 13:07	4° Υ 34'12	6.37369 AU
retrograde	9190 Feb 01 06:27	19° $\underline{\mathbf{A}}$ 36'03					
min. Earth dist.	9190 Mar 31 04:01	14° $\underline{\mathbf{A}}$ 44'50	4.04873 AU	conjunction	9196 Mar 22 19:22	5° Υ 04'14	-0°07'46
opposition	9190 Apr 01 18:30	14° $\underline{\mathbf{A}}$ 31'45	0°22'29	minimum elong	9196 Mar 22 19:22	5° Υ 04'14	0°07'46
direct	9190 May 30 07:26	9° $\underline{\mathbf{A}}$ 34'01		behind sun begin	9196 Mar 22 12:10	5° Υ 00'16	
evening set	9190 Oct 04 00:30	28° $\underline{\mathbf{A}}$ 42'40		behind sun end	9196 Mar 23 02:33	5° Υ 08'12	
	9190 Oct 09 15:12	0° \mathbb{M}		morning rise	9196 Apr 04 12:54	7° Υ 53'15	
				retrograde	9196 Aug 05 11:25	25° Υ 24'14	
conjunction	9190 Oct 17 15:53	1° \mathbb{M} 50'53	0°27'26	opposition	9196 Oct 05 07:44	20° Υ 31'09	-0°28'54
minimum elong	9190 Oct 17 15:51	1° \mathbb{M} 50'52	0°27'34	min. Earth dist.	9196 Oct 06 23:58	20° Υ 18'15	4.29772 AU
max. Earth dist.	9190 Oct 20 03:28	2° \mathbb{M} 25'11	6.13212 AU	direct	9196 Dec 06 03:39	15° Υ 31'37	
morning rise	9190 Oct 31 07:39	4° \mathbb{M} 58'57			9197 Mar 24 18:16	0° \mathcal{B}	
	9190 Dec 17 04:31	15° \mathbb{M}		evening set	9197 Apr 10 15:18	3° \mathcal{B} 46'41	
retrograde	9191 Mar 06 22:06	23° \mathbb{M} 47'04		max. Earth dist.	9197 Apr 21 03:35	6° \mathcal{B} 11'04	6.21310 AU
min. Earth dist.	9191 May 04 10:41	18° \mathbb{M} 55'29	4.21925 AU				
opposition	9191 May 05 20:39	18° \mathbb{M} 44'04	0°54'53	conjunction	9197 Apr 23 09:57	6° \mathcal{B} 42'19	-0°30'41
	9191 Jun 06 12:32	15° $\mathcal{R}\mathbb{M}$		minimum elong	9197 Apr 23 09:56	6° \mathcal{B} 42'18	0°30'50
direct	9191 Jul 04 13:24	13° \mathbb{M} 44'14		morning rise	9197 May 06 04:25	9° \mathcal{B} 38'09	
	9191 Aug 01 23:00	15° \mathbb{M}			9197 May 30 04:34	15° \mathcal{B}	
	9191 Oct 29 17:49	0° \mathcal{Z}		retrograde	9197 Sep 09 08:42	28° \mathcal{B} 18'05	
evening set	9191 Nov 07 22:01	2° \mathcal{Z} 00'31		opposition	9197 Nov 08 18:26	23° \mathcal{B} 23'39	-0°58'33
				min. Earth dist.	9197 Nov 10 03:44	23° \mathcal{B} 12'50	4.12502 AU
conjunction	9191 Nov 21 09:40	4° \mathcal{Z} 59'38	0°43'36	direct	9198 Jan 08 08:17	18° \mathcal{B} 26'10	
minimum elong	9191 Nov 21 09:39	4° \mathcal{Z} 59'38	0°43'52		9198 Apr 10 23:41	0° \mathbb{I}	
max. Earth dist.	9191 Nov 23 01:47	5° \mathcal{Z} 21'53	6.30437 AU	evening set	9198 May 14 07:24	7° \mathbb{I} 34'08	
morning rise	9191 Dec 04 20:36	7° \mathcal{Z} 58'04		max. Earth dist.	9198 May 25 18:11	10° \mathbb{I} 17'28	6.04309 AU
retrograde	9192 Apr 06 06:52	25° \mathcal{Z} 35'58					
opposition	9192 Jun 05 15:19	20° \mathcal{Z} 36'00	1°07'52	conjunction	9198 May 27 05:04	10° \mathbb{I} 38'16	-0°44'49
min. Earth dist.	9192 Jun 04 21:33	20° \mathcal{Z} 41'52	4.37891 AU	minimum elong	9198 May 27 05:04	10° \mathbb{I} 38'16	0°45'06
direct	9192 Aug 05 17:03	15° \mathcal{Z} 34'52		morning rise	9198 Jun 09 03:34	13° \mathbb{I} 43'13	
	9192 Nov 24 15:38	0° \mathcal{B}			9198 Aug 28 16:58	0° \mathcal{E}	
evening set	9192 Dec 09 12:37	3° \mathcal{B} 08'57		retrograde	9198 Oct 16 20:19	3° \mathcal{E} 39'54	
					9198 Dec 05 21:07	30° $\mathcal{R}\mathbb{I}$	
conjunction	9192 Dec 22 19:16	6° \mathcal{B} 00'34	0°46'01	opposition	9198 Dec 15 17:02	28° \mathbb{I} 43'03	-1°09'35
minimum elong	9192 Dec 22 19:16	6° \mathcal{B} 00'34	0°46'18	min. Earth dist.	9198 Dec 16 06:35	28° \mathbb{I} 38'35	3.97314 AU
max. Earth dist.	9192 Dec 23 08:13	6° \mathcal{B} 07'33	6.43962 AU	direct	9199 Feb 12 19:54	23° \mathbb{I} 47'44	
morning rise	9193 Jan 05 00:02	8° \mathcal{B} 51'07			9199 Apr 17 15:42	0° \mathcal{E}	
retrograde	9193 May 06 03:36	25° \mathcal{B} 41'52		evening set	9199 Jun 19 08:41	13° \mathcal{E} 41'22	
opposition	9193 Jul 05 22:11	20° \mathcal{B} 45'14	1°01'27				
min. Earth dist.	9193 Jul 05 23:09	20° \mathcal{B} 44'56	4.48152 AU	conjunction	9199 Jul 02 12:17	16° \mathcal{E} 53'48	-0°43'01
direct	9193 Sep 06 00:26	15° \mathcal{B} 43'37		minimum elong	9199 Jul 02 12:18	16° \mathcal{E} 53'48	0°43'18
	9193 Dec 26 13:26	0° \approx		max. Earth dist.	9199 Jul 02 10:09	16° \mathcal{E} 52'30	5.92401 AU
evening set	9194 Jan 09 11:10	2° \approx 54'50		morning rise	9199 Jul 15 18:13	20° \mathcal{E} 07'36	
					9199 Aug 27 15:07	0° \mathcal{O}	
conjunction	9194 Jan 22 12:43	5° \approx 42'02	0°35'53	retrograde	9199 Nov 24 17:53	10° \mathcal{O} 56'48	
minimum elong	9194 Jan 22 12:44	5° \approx 42'03	0°36'07	opposition	9200 Jan 23 05:21	5° \mathcal{O} 56'33	-0°53'17
max. Earth dist.	9194 Jan 21 19:49	5° \approx 33'00	6.50253 AU	min. Earth dist.	9200 Jan 22 16:24	6° \mathcal{O} 00'55	3.90086 AU
morning rise	9194 Feb 04 12:03	8° \approx 28'12		direct	9200 Mar 21 06:53	1° \mathcal{O} 02'01	
	9194 Mar 08 10:26	15° \approx			9200 Jun 30 00:41	15° \mathcal{O}	
retrograde	9194 Jun 04 18:57	25° \approx 01'22		evening set	9200 Jul 26 04:49	21° \mathcal{O} 12'07	
opposition	9194 Aug 04 18:34	20° \approx 07'18	0°39'25				
min. Earth dist.	9194 Aug 05 15:26	20° \approx 00'37	4.50193 AU	conjunction	9200 Aug 08 15:42	24° \mathcal{O} 28'54	-0°23'50
direct	9194 Oct 06 11:04	15° \approx 05'46		minimum elong	9200 Aug 08 15:43	24° \mathcal{O} 28'55	0°24'00
	9195 Jan 28 21:16	0° \mathcal{H}		max. Earth dist.	9200 Aug 10 03:57	24° \mathcal{O} 51'02	5.90612 AU
evening set	9195 Feb 08 15:00	2° \mathcal{H} 16'32		morning rise	9200 Aug 22 04:59	27° \mathcal{O} 46'55	
max. Earth dist.	9195 Feb 19 18:32	4° \mathcal{H} 40'25	6.47868 AU		9200 Aug 31 10:26	0° \mathbb{M}	
				retrograde	9201 Jan 01 03:23	18° \mathbb{M} 34'18	
conjunction	9195 Feb 21 12:27	5° \mathcal{H} 03'02	0°16'29	min. Earth dist.	9201 Feb 28 03:24	13° \mathbb{M} 41'55	3.94019 AU
minimum elong	9195 Feb 21 12:27	5° \mathcal{H} 03'02	0°16'37	opposition	9201 Mar 01 11:38	13° \mathbb{M} 30'57	-0°14'38
morning rise	9195 Mar 06 07:59	7° \mathcal{H} 48'43		direct	9201 Apr 28 10:33	8° \mathbb{M} 35'11	
retrograde	9195 Jul 05 05:23	24° \mathcal{H} 35'37		asc. node	9201 Jul 11 07:16	16° \mathbb{M} 41'51	
opposition	9195 Sep 04 05:52	19° \mathcal{H} 42'41	0°07'00	evening set	9201 Sep 02 07:57	28° \mathbb{M} 23'08	
min. Earth dist.	9195 Sep 05 16:49	19° \mathcal{H} 31'31	4.43545 AU		9201 Sep 09 03:12	0° $\underline{\mathbf{A}}$	
direct	9195 Nov 05 19:57	14° \mathcal{H} 41'45					
desc. node	9195 Nov 20 01:36	15° \mathcal{H} 00'00		conjunction	9201 Sep 15 23:17	1° $\underline{\mathbf{A}}$ 37'35	0°04'52

minimum elong	9201 Sep 15 23:17	1°♏37'35	0°04'52	opposition	9207 Sep 08 15:18	24°♏04'28	0°01'56
behind sun begin	9201 Sep 15 15:07	1°♏32'45		min. Earth dist.	9207 Sep 10 04:04	23°♏52'44	4.41826 AU
behind sun end	9201 Sep 16 07:28	1°♏42'25		desc. node	9207 Sep 29 16:54	21°♏30'46	
max. Earth dist.	9201 Sep 18 10:53	2°♏13'01	5.99790 AU	direct	9207 Nov 10 03:53	19°♏03'44	
morning rise	9201 Sep 29 16:16	4°♏52'36			9208 Feb 11 17:48	0°♑	
retrograde	9202 Feb 06 04:35	24°♏45'17		evening set	9208 Mar 14 08:59	6°♑42'11	
min. Earth dist.	9202 Apr 05 03:14	19°♏54'20	4.07340 AU	max. Earth dist.	9208 Mar 24 19:13	9°♑00'55	6.35176 AU
opposition	9202 Apr 06 18:42	19°♏40'57	0°28'06				
direct	9202 Jun 04 10:19	14°♏42'51		conjunction	9208 Mar 27 03:47	9°♑32'24	-0°11'14
	9202 Sep 22 13:48	0°♒		minimum elong	9208 Mar 27 03:46	9°♑32'24	0°11'17
evening set	9202 Oct 09 02:46	3°♒43'04		behind sun begin	9208 Mar 26 21:52	9°♑29'08	
				behind sun end	9208 Mar 27 09:40	9°♑35'40	
conjunction	9202 Oct 22 17:37	6°♒49'51	0°30'31	morning rise	9208 Apr 08 21:28	12°♑22'18	
minimum elong	9202 Oct 22 17:36	6°♒49'50	0°30'40		9208 Aug 05 04:22	0°♓	
max. Earth dist.	9202 Oct 25 02:18	7°♒22'16	6.15912 AU	retrograde	9208 Aug 10 06:13	0°♓02'27	
morning rise	9202 Nov 05 08:56	9°♒56'27			9208 Aug 15 07:48	30°♓♑	
	9202 Nov 28 04:54	15°♒		opposition	9208 Oct 10 00:47	25°♑09'15	-0°33'46
retrograde	9203 Mar 11 11:20	28°♒32'53		min. Earth dist.	9208 Oct 11 16:53	24°♑56'22	4.27239 AU
min. Earth dist.	9203 May 09 04:07	23°♒40'42	4.24594 AU	direct	9208 Dec 10 16:55	20°♑09'58	
opposition	9203 May 10 11:32	23°♒30'10	0°57'57		9209 Mar 06 20:27	0°♓	
direct	9203 Jul 09 10:00	18°♒30'02		evening set	9209 Apr 15 06:30	8°♓33'00	
	9203 Oct 12 07:47	0°♓		max. Earth dist.	9209 Apr 25 21:50	10°♓59'58	6.18658 AU
evening set	9203 Nov 12 15:07	6°♓38'35					
				conjunction	9209 Apr 28 01:35	11°♓29'52	-0°33'25
conjunction	9203 Nov 26 02:13	9°♓36'25	0°44'46	minimum elong	9209 Apr 28 01:34	11°♓29'52	0°33'35
minimum elong	9203 Nov 26 02:12	9°♓36'25	0°45'02	morning rise	9209 May 10 20:18	14°♓26'58	
max. Earth dist.	9203 Nov 27 16:05	9°♓57'19	6.32868 AU		9209 May 13 05:50	15°♓	
morning rise	9203 Dec 09 12:07	12°♓33'27			9209 Jul 29 13:53	0°♐	
	9204 Apr 05 10:03	0°♐		retrograde	9209 Sep 14 12:57	3°♐18'32	
retrograde	9204 Apr 10 11:45	0°♐02'29			9209 Nov 01 07:33	30°♓♓	
	9204 Apr 15 13:26	30°♓♓♓		opposition	9209 Nov 13 20:58	28°♓23'55	-1°01'32
opposition	9204 Jun 09 23:02	25°♓03'00	1°08'02	min. Earth dist.	9209 Nov 15 04:05	28°♓13'48	4.09964 AU
min. Earth dist.	9204 Jun 09 07:08	25°♓08'14	4.39920 AU	direct	9210 Jan 13 05:25	23°♓26'54	
direct	9204 Aug 10 04:22	20°♓01'47			9210 Mar 21 04:06	0°♐	
	9204 Nov 07 04:43	0°♐		evening set	9210 May 19 07:14	12°♐42'45	
evening set	9204 Dec 13 22:43	7°♐30'51		max. Earth dist.	9210 May 30 21:51	15°♐29'15	6.02129 AU
conjunction	9204 Dec 27 04:28	10°♐21'33	0°45'15	conjunction	9210 Jun 01 05:26	15°♐48'10	-0°45'39
minimum elong	9204 Dec 27 04:28	10°♐21'33	0°45'33	minimum elong	9210 Jun 01 05:25	15°♐48'10	0°45'56
max. Earth dist.	9204 Dec 27 11:49	10°♐25'30	6.45447 AU	morning rise	9210 Jun 14 04:59	18°♐54'33	
morning rise	9205 Jan 09 08:30	13°♐11'14			9210 Aug 03 00:28	0°♑	
retrograde	9205 May 10 07:52	29°♐57'24		retrograde	9210 Oct 22 07:34	9°♑01'08	
opposition	9205 Jul 10 02:38	25°♐01'13	0°59'08	opposition	9210 Dec 21 03:11	4°♑03'51	-1°08'59
min. Earth dist.	9205 Jul 10 07:35	24°♐59'37	4.49020 AU	min. Earth dist.	9210 Dec 21 12:10	4°♑00'53	3.95742 AU
direct	9205 Sep 10 08:51	19°♐59'33			9211 Jan 26 10:10	30°♓♐	
	9205 Dec 09 11:16	0°♑		direct	9211 Feb 18 01:31	29°♐08'49	
evening set	9206 Jan 13 17:01	7°♑09'12			9211 Mar 12 15:25	0°♑	
				evening set	9211 Jun 24 15:53	19°♑06'40	
conjunction	9206 Jan 26 18:00	9°♑56'07	0°33'35				
minimum elong	9206 Jan 26 18:01	9°♑56'07	0°33'49	conjunction	9211 Jul 07 20:37	22°♑19'59	-0°41'15
max. Earth dist.	9206 Jan 25 20:48	9°♑44'47	6.50438 AU	minimum elong	9211 Jul 07 20:38	22°♑19'59	0°41'32
morning rise	9206 Feb 08 16:44	12°♑41'59		max. Earth dist.	9211 Jul 08 01:56	22°♑23'14	5.91626 AU
	9206 Feb 19 14:51	15°♑		morning rise	9211 Jul 21 03:28	25°♑34'37	
retrograde	9206 Jun 08 23:06	29°♑15'20			9211 Aug 08 15:22	0°♒	
opposition	9206 Aug 08 23:33	24°♑21'28	0°35'19		9211 Oct 31 10:07	15°♒	
min. Earth dist.	9206 Aug 09 22:21	24°♑14'10	4.49704 AU	retrograde	9211 Nov 30 06:52	16°♒26'22	
direct	9206 Oct 10 15:47	19°♑19'59			9211 Dec 30 01:00	15°♓♒	
	9207 Jan 12 02:23	0°♓		opposition	9212 Jan 28 16:56	11°♒25'38	-0°48'49
evening set	9207 Feb 12 20:17	6°♓32'48		min. Earth dist.	9212 Jan 28 01:12	11°♒30'57	3.90215 AU
max. Earth dist.	9207 Feb 23 21:55	8°♓56'02	6.46735 AU	direct	9212 Mar 26 17:42	6°♒31'05	
					9212 Jun 09 23:34	15°♒	
conjunction	9207 Feb 25 17:23	9°♓19'34	0°13'14	evening set	9212 Jul 31 14:38	26°♒39'05	
minimum elong	9207 Feb 25 17:24	9°♓19'34	0°13'22				
behind sun begin	9207 Feb 25 12:48	9°♓17'06		conjunction	9212 Aug 14 02:18	29°♒55'46	-0°20'05
behind sun end	9207 Feb 25 21:59	9°♓22'03		minimum elong	9212 Aug 14 02:19	29°♒55'47	0°20'15
morning rise	9207 Mar 10 12:26	12°♓05'32			9212 Aug 14 09:16	0°♓	
retrograde	9207 Jul 09 15:19	28°♓57'18		max. Earth dist.	9212 Aug 15 19:27	0°♓20'48	5.91617 AU

morning rise	9212 Aug 27 16:23	3° \mathbb{M} 13'37			9218 Apr 25 00:39	0° \mathbb{H}	
retrograde	9213 Jan 06 08:15	23° \mathbb{M} 54'23		retrograde	9218 Jun 13 04:54	3° \mathbb{H} 29'46	
min. Earth dist.	9213 Mar 05 06:20	19° \mathbb{M} 02'39	3.95788 AU		9218 Aug 02 02:24	30° \mathbb{R} \approx	
opposition	9213 Mar 06 17:15	18° \mathbb{M} 50'47	-0°08'25	opposition	9218 Aug 13 04:35	28° \approx 36'10	0°31'05
direct	9213 May 03 16:53	13° \mathbb{M} 54'44		min. Earth dist.	9218 Aug 14 06:36	28° \approx 27'50	4.48837 AU
asc. node	9213 May 21 07:30	14° \mathbb{M} 26'25		direct	9218 Oct 14 22:16	23° \approx 34'44	
	9213 Aug 23 03:15	0° $\underline{\mathbb{A}}$			9218 Dec 23 17:59	0° \mathbb{H}	
evening set	9213 Sep 07 13:53	3° $\underline{\mathbb{A}}$ 35'37		evening set	9219 Feb 17 01:51	10° \mathbb{H} 50'40	
				max. Earth dist.	9219 Feb 27 23:57	13° \mathbb{H} 12'31	6.45308 AU
conjunction	9213 Sep 21 05:15	6° $\underline{\mathbb{A}}$ 49'00	0°08'52				
minimum elong	9213 Sep 21 05:14	6° $\underline{\mathbb{A}}$ 48'59	0°08'54	conjunction	9219 Mar 01 22:34	13° \mathbb{H} 37'49	0°09'56
behind sun begin	9213 Sep 20 22:05	6° $\underline{\mathbb{A}}$ 44'47		minimum elong	9219 Mar 01 22:35	13° \mathbb{H} 37'50	0°10'03
behind sun end	9213 Sep 21 12:23	6° $\underline{\mathbb{A}}$ 53'12		behind sun begin	9219 Mar 01 16:09	13° \mathbb{H} 34'21	
max. Earth dist.	9213 Sep 23 16:21	7° $\underline{\mathbb{A}}$ 23'57	6.02112 AU	behind sun end	9219 Mar 02 05:01	13° \mathbb{H} 41'18	
morning rise	9213 Oct 04 22:18	10° $\underline{\mathbb{A}}$ 02'53		morning rise	9219 Mar 14 17:25	16° \mathbb{H} 24'15	
retrograde	9214 Feb 10 22:26	29° $\underline{\mathbb{A}}$ 44'10			9219 May 27 00:48	0° \mathbb{Y}	
min. Earth dist.	9214 Apr 10 00:13	24° $\underline{\mathbb{A}}$ 52'59	4.09946 AU	retrograde	9219 Jul 14 01:28	3° \mathbb{Y} 21'44	
opposition	9214 Apr 11 14:44	24° $\underline{\mathbb{A}}$ 39'55	0°33'16	desc. node	9219 Aug 10 02:59	2° \mathbb{Y} 14'58	
direct	9214 Jun 09 10:54	19° $\underline{\mathbb{A}}$ 41'29			9219 Aug 31 23:01	30° \mathbb{R} \mathbb{H}	
	9214 Sep 04 11:44	0° \mathbb{M}		opposition	9219 Sep 13 01:29	28° \mathbb{H} 28'52	-0°03'08
evening set	9214 Oct 14 00:35	8° \mathbb{M} 33'18		min. Earth dist.	9219 Sep 14 14:33	28° \mathbb{H} 17'01	4.39938 AU
				direct	9219 Nov 14 11:22	23° \mathbb{H} 28'15	
conjunction	9214 Oct 27 15:11	11° \mathbb{M} 38'44	0°33'16		9220 Jan 23 02:53	0° \mathbb{Y}	
minimum elong	9214 Oct 27 15:09	11° \mathbb{M} 38'43	0°33'27	evening set	9220 Mar 18 18:20	11° \mathbb{Y} 12'29	
max. Earth dist.	9214 Oct 29 22:50	12° \mathbb{M} 10'23	6.18578 AU	max. Earth dist.	9220 Mar 29 05:54	13° \mathbb{Y} 32'37	6.32970 AU
morning rise	9214 Nov 10 05:40	14° \mathbb{M} 43'50					
	9214 Nov 11 10:25	15° \mathbb{M}		conjunction	9220 Mar 31 13:09	14° \mathbb{Y} 03'32	-0°14'39
	9215 Jan 29 07:09	0° \mathbb{Z}		minimum elong	9220 Mar 31 13:08	14° \mathbb{Y} 03'32	0°14'42
retrograde	9215 Mar 15 20:29	3° \mathbb{Z} 09'17		behind sun begin	9220 Mar 31 09:42	14° \mathbb{Y} 01'37	
	9215 Apr 30 12:07	30° \mathbb{R} \mathbb{M}		behind sun end	9220 Mar 31 16:34	14° \mathbb{Y} 05'27	
opposition	9215 May 14 22:25	28° \mathbb{M} 07'03	1°00'32	morning rise	9220 Apr 13 06:42	16° \mathbb{Y} 54'17	
min. Earth dist.	9215 May 13 16:45	28° \mathbb{M} 16'58	4.27085 AU		9220 Jun 18 18:50	0° \mathbb{B}	
direct	9215 Jul 14 01:28	23° \mathbb{M} 06'46		retrograde	9220 Aug 15 01:37	4° \mathbb{B} 43'27	
	9215 Sep 22 18:35	0° \mathbb{Z}			9220 Oct 13 12:15	30° \mathbb{R} \mathbb{Y}	
evening set	9215 Nov 17 04:55	11° \mathbb{Z} 08'38		opposition	9220 Oct 14 18:57	29° \mathbb{Y} 50'08	-0°38'25
				min. Earth dist.	9220 Oct 16 10:42	29° \mathbb{Y} 37'21	4.24861 AU
conjunction	9215 Nov 30 15:08	14° \mathbb{Z} 05'17	0°45'38	direct	9220 Dec 15 07:50	24° \mathbb{Y} 51'09	
minimum elong	9215 Nov 30 15:08	14° \mathbb{Z} 05'17	0°45'54		9221 Feb 13 05:10	0° \mathbb{B}	
max. Earth dist.	9215 Dec 01 23:15	14° \mathbb{Z} 22'55	6.34988 AU	evening set	9221 Apr 19 22:18	13° \mathbb{B} 21'12	
morning rise	9215 Dec 14 00:23	17° \mathbb{Z} 01'08			9221 Apr 27 01:12	15° \mathbb{B}	
	9216 Feb 19 18:22	0° \mathbb{B}		max. Earth dist.	9221 Apr 30 14:42	15° \mathbb{B} 49'39	6.16290 AU
retrograde	9216 Apr 14 15:57	4° \mathbb{B} 22'45					
	9216 Jun 09 13:32	30° \mathbb{R} \mathbb{Z}		conjunction	9221 May 02 17:27	16° \mathbb{B} 19'08	-0°35'54
opposition	9216 Jun 14 04:05	29° \mathbb{Z} 23'46	1°07'50	minimum elong	9221 May 02 17:26	16° \mathbb{B} 19'07	0°36'07
min. Earth dist.	9216 Jun 13 15:50	29° \mathbb{Z} 27'48	4.41547 AU	morning rise	9221 May 15 12:47	19° \mathbb{B} 17'26	
direct	9216 Aug 14 13:59	24° \mathbb{Z} 22'25			9221 Jul 04 05:19	0° \mathbb{I}	
	9216 Oct 17 22:46	0° \mathbb{B}		retrograde	9221 Sep 19 16:21	8° \mathbb{I} 19'23	
evening set	9216 Dec 18 06:11	11° \mathbb{B} 47'57		opposition	9221 Nov 18 23:25	3° \mathbb{I} 24'22	-1°04'03
				min. Earth dist.	9221 Nov 20 03:15	3° \mathbb{I} 15'18	4.07800 AU
conjunction	9216 Dec 31 11:27	14° \mathbb{B} 38'01	0°44'17		9221 Dec 17 20:07	30° \mathbb{R} \mathbb{B}	
minimum elong	9216 Dec 31 11:28	14° \mathbb{B} 38'01	0°44'35	direct	9222 Jan 18 03:07	28° \mathbb{B} 27'35	
max. Earth dist.	9216 Dec 31 15:30	14° \mathbb{B} 40'12	6.46478 AU		9222 Feb 18 04:53	0° \mathbb{I}	
morning rise	9217 Jan 13 14:35	17° \mathbb{B} 27'01		evening set	9222 May 24 06:28	17° \mathbb{I} 49'45	
	9217 Mar 21 12:45	0° \approx		max. Earth dist.	9222 Jun 05 03:46	20° \mathbb{I} 40'49	6.00367 AU
retrograde	9217 May 14 09:05	4° \approx 10'15					
	9217 Jul 08 08:14	30° \mathbb{R} \mathbb{B}		conjunction	9222 Jun 06 05:30	20° \mathbb{I} 56'18	-0°46'07
opposition	9217 Jul 14 05:42	29° \mathbb{B} 14'27	0°56'37	minimum elong	9222 Jun 06 05:29	20° \mathbb{I} 56'18	0°46'24
min. Earth dist.	9217 Jul 14 12:37	29° \mathbb{B} 12'13	4.49422 AU	morning rise	9222 Jun 19 05:44	24° \mathbb{I} 03'49	
direct	9217 Sep 14 13:12	24° \mathbb{B} 12'49			9222 Jul 14 16:03	0° \mathbb{B}	
	9217 Nov 19 14:31	0° \approx		retrograde	9222 Oct 27 18:21	14° \mathbb{B} 18'17	
evening set	9218 Jan 17 21:53	11° \approx 22'20		opposition	9222 Dec 26 11:30	9° \mathbb{B} 20'32	-1°07'47
				min. Earth dist.	9222 Dec 26 17:55	9° \mathbb{B} 18'24	3.94563 AU
conjunction	9218 Jan 30 22:11	14° \approx 09'06	0°31'11	direct	9223 Feb 23 06:35	4° \mathbb{B} 25'38	
minimum elong	9218 Jan 30 22:12	14° \approx 09'07	0°31'24	evening set	9223 Jun 29 21:14	24° \mathbb{B} 26'15	
max. Earth dist.	9218 Jan 29 20:47	13° \approx 55'31	6.50191 AU				
	9218 Feb 03 21:12	15° \approx		conjunction	9223 Jul 13 02:53	27° \mathbb{B} 40'16	-0°39'10
morning rise	9218 Feb 12 20:25	16° \approx 54'53		minimum elong	9223 Jul 13 02:55	27° \mathbb{B} 40'16	0°39'26

max. Earth dist.	9223 Jul 13 12:46	27° 5 46'18	5.91130 AU	conjunction	9229 Jan 04 19:44	18° 3 57'40	0°43'04
	9223 Jul 22 15:31	0° 0		minimum elong	9229 Jan 04 19:45	18° 3 57'40	0°43'20
morning rise	9223 Jul 26 10:56	0° 0 55'39		max. Earth dist.	9229 Jan 04 18:29	18° 3 57'00	6.47332 AU
	9223 Sep 28 14:14	15° 0		morning rise	9229 Jan 17 22:19	21° 3 46'06	
retrograde	9223 Dec 05 15:23	21° 0 48'33			9229 Feb 27 18:13	0° ≈	
min. Earth dist.	9224 Feb 02 05:48	16° 0 53'59	3.90487 AU	retrograde	9229 May 18 14:24	8° ≈ 26'55	
opposition	9224 Feb 03 01:24	16° 0 47'22	-0°43'59	opposition	9229 Jul 18 10:49	3° ≈ 31'35	0°53'44
	9224 Feb 16 15:32	15° 0 R		min. Earth dist.	9229 Jul 18 20:56	3° ≈ 28'19	4.49768 AU
direct	9224 Mar 31 23:57	11° 0 52'41			9229 Aug 17 22:05	30° R 3	
	9224 May 14 16:32	15° 0		direct	9229 Sep 18 21:02	28° 3 30'00	
	9224 Jul 28 16:29	0° m			9229 Oct 21 01:52	0° ≈	
evening set	9224 Aug 05 21:52	1° m 58'27			9230 Jan 19 02:00	15° ≈	
				evening set	9230 Jan 22 04:20	15° ≈ 39'24	
conjunction	9224 Aug 19 10:11	5° m 14'58	-0°16'14	max. Earth dist.	9230 Feb 03 01:00	18° ≈ 11'29	6.50038 AU
minimum elong	9224 Aug 19 10:12	5° m 14'58	0°16'22				
max. Earth dist.	9224 Aug 21 05:49	5° m 41'26	5.92608 AU	conjunction	9230 Feb 04 04:13	18° ≈ 26'04	0°28'34
morning rise	9224 Sep 02 01:00	8° m 32'38		minimum elong	9230 Feb 04 04:14	18° ≈ 26'04	0°28'47
retrograde	9225 Jan 11 09:44	29° m 07'14		morning rise	9230 Feb 17 01:46	21° ≈ 11'42	
min. Earth dist.	9225 Mar 10 08:20	24° m 15'31	3.97368 AU		9230 Apr 02 02:20	0° H	
opposition	9225 Mar 11 20:06	24° m 03'20	-0°02'14	retrograde	9230 Jun 17 09:55	7° H 47'47	
asc. node	9225 Mar 31 21:30	21° m 28'21		opposition	9230 Aug 17 11:20	2° H 54'25	0°26'38
direct	9225 May 08 22:06	19° m 06'56		min. Earth dist.	9230 Aug 18 13:53	2° H 45'56	4.48230 AU
	9225 Aug 04 23:49	0° A			9230 Sep 10 18:42	30° R ≈	
evening set	9225 Sep 12 17:45	8° A 41'53		direct	9230 Oct 19 04:02	27° ≈ 53'12	
					9230 Nov 26 15:59	0° H	
conjunction	9225 Sep 26 09:25	11° A 54'24	0°12'46	evening set	9231 Feb 21 08:21	15° H 11'11	
minimum elong	9225 Sep 26 09:24	11° A 54'23	0°12'48	max. Earth dist.	9231 Mar 04 05:09	17° H 32'42	6.44306 AU
behind sun begin	9225 Sep 26 04:18	11° A 51'24					
behind sun end	9225 Sep 26 14:31	11° A 57'23		conjunction	9231 Mar 06 04:35	17° H 58'33	0°06'35
max. Earth dist.	9225 Sep 28 22:12	12° A 30'09	6.04134 AU	minimum elong	9231 Mar 06 04:35	17° H 58'33	0°06'40
morning rise	9225 Oct 10 02:15	15° A 07'14		behind sun begin	9231 Mar 05 21:08	17° H 54'30	
	9225 Dec 22 03:08	0° M		behind sun end	9231 Mar 06 12:02	18° H 02'35	
retrograde	9226 Feb 15 16:28	4° M 38'29		morning rise	9231 Mar 18 23:02	20° H 45'13	
	9226 Apr 13 05:33	30° R A			9231 May 03 12:42	0° Y	
min. Earth dist.	9226 Apr 14 19:29	29° A 47'11	4.12186 AU	desc. node	9231 Jun 20 15:36	6° Y 36'12	
opposition	9226 Apr 16 09:10	29° A 34'26	0°38'08	retrograde	9231 Jul 18 13:06	7° Y 47'07	
direct	9226 Jun 14 09:07	24° A 35'45		opposition	9231 Sep 17 12:31	2° Y 54'20	-0°08'09
	9226 Aug 13 20:48	0° M		min. Earth dist.	9231 Sep 19 02:54	2° Y 42'05	4.38597 AU
evening set	9226 Oct 18 21:54	13° M 20'46			9231 Oct 11 19:34	30° R H	
	9226 Oct 26 05:44	15° M		direct	9231 Nov 18 22:01	27° H 53'59	
					9231 Dec 26 19:35	0° Y	
conjunction	9226 Nov 01 11:56	16° M 25'00	0°35'47	evening set	9232 Mar 23 03:15	15° Y 41'59	
minimum elong	9226 Nov 01 11:54	16° M 24'59	0°36'00	max. Earth dist.	9232 Apr 02 13:38	18° Y 02'01	6.31389 AU
max. Earth dist.	9226 Nov 03 16:06	16° M 54'30	6.20827 AU				
morning rise	9226 Nov 15 02:00	19° M 28'53		conjunction	9232 Apr 04 21:49	18° Y 33'33	-0°17'55
	9227 Jan 04 15:01	0° A		minimum elong	9232 Apr 04 21:48	18° Y 33'33	0°17'59
retrograde	9227 Mar 20 05:45	7° A 45'02		morning rise	9232 Apr 17 15:24	21° Y 24'57	
min. Earth dist.	9227 May 18 05:50	2° A 52'25	4.29164 AU		9232 May 28 02:37	0° 8	
opposition	9227 May 19 09:26	2° A 43'12	1°02'45	retrograde	9232 Aug 19 17:44	9° 8 21'07	
	9227 Jun 10 01:09	30° R M		opposition	9232 Oct 19 11:29	4° 8 27'37	-0°42'41
direct	9227 Jul 18 16:38	27° M 42'43		min. Earth dist.	9232 Oct 21 01:25	4° 8 15'24	4.23142 AU
	9227 Aug 26 16:58	0° A			9232 Dec 01 15:54	30° R Y	
evening set	9227 Nov 21 18:58	15° A 39'17		direct	9232 Dec 19 20:30	29° Y 28'53	
					9233 Jan 07 01:56	0° 8	
conjunction	9227 Dec 05 04:42	18° A 35'00	0°46'13		9233 Apr 11 01:39	15° 8	
minimum elong	9227 Dec 05 04:41	18° A 35'00	0°46'30	evening set	9233 Apr 24 11:38	18° 8 03'49	
max. Earth dist.	9227 Dec 06 10:01	18° A 51'03	6.36758 AU	max. Earth dist.	9233 May 05 07:47	20° 8 34'58	6.14577 AU
morning rise	9227 Dec 18 12:59	21° A 29'48					
	9228 Jan 28 23:24	0° 3		conjunction	9233 May 07 07:04	21° 8 02'33	-0°38'03
retrograde	9228 Apr 18 21:19	8° 3 45'12		minimum elong	9233 May 07 07:03	21° 8 02'32	0°38'17
opposition	9228 Jun 18 10:32	3° 3 46'47	1°07'16	morning rise	9233 May 20 02:36	24° 8 01'42	
min. Earth dist.	9228 Jun 18 00:33	3° 3 50'03	4.42899 AU		9233 Jun 15 12:27	0° II	
	9228 Jul 21 08:50	30° R A		retrograde	9233 Sep 24 17:24	13° II 11'46	
direct	9228 Aug 18 23:44	28° A 45'28		opposition	9233 Nov 23 22:10	8° II 16'29	-1°05'56
	9228 Sep 16 21:57	0° 3		min. Earth dist.	9233 Nov 25 00:46	8° II 07'48	4.06224 AU
evening set	9228 Dec 22 15:20	16° 3 08'12		direct	9234 Jan 22 22:36	3° II 19'58	
				evening set	9234 May 29 01:21	22° II 46'30	

max. Earth dist.	9234 Jun 10 01:40	25° Π 39'52	5.99068 AU	minimum elong	9239 Dec 09 17:21	23° X 03'09	0°46'47
				max. Earth dist.	9239 Dec 10 18:57	23° X 17'07	6.38220 AU
conjunction	9234 Jun 11 00:58	25° Π 53'55	-0°46'11	morning rise	9239 Dec 23 01:00	25° X 57'05	
minimum elong	9234 Jun 11 00:58	25° Π 53'55	0°46'28		9240 Jan 11 02:11	0° Z	
morning rise	9234 Jun 24 02:10	29° Π 02'27		retrograde	9240 Apr 23 02:05	13° Z 06'56	
	9234 Jun 28 02:25	0° Z		opposition	9240 Jun 22 16:33	8° Z 08'50	1°06'17
retrograde	9234 Nov 01 20:41	19° Z 23'07		min. Earth dist.	9240 Jun 22 08:39	8° Z 11'25	4.44055 AU
opposition	9234 Dec 31 14:08	14° Z 24'57	-1°06'04	direct	9240 Aug 23 08:27	3° Z 07'21	
min. Earth dist.	9234 Dec 31 16:51	14° Z 24'02	3.93691 AU	evening set	9240 Dec 26 23:43	20° Z 27'25	
direct	9235 Feb 28 04:57	9° Z 30'10					
evening set	9235 Jul 04 21:14	29° Z 32'50		conjunction	9241 Jan 09 03:36	23° Z 16'21	0°41'34
	9235 Jul 06 17:53	0° Ω		minimum elong	9241 Jan 09 03:36	23° Z 16'21	0°41'50
				max. Earth dist.	9241 Jan 09 00:24	23° Z 14'38	6.48098 AU
conjunction	9235 Jul 18 03:46	2° Ω 47'27	-0°36'51	morning rise	9241 Jan 22 05:16	26° Z 04'10	
minimum elong	9235 Jul 18 03:47	2° Ω 47'27	0°37'06		9241 Feb 10 00:23	0° \approx	
max. Earth dist.	9235 Jul 18 17:15	2° Ω 55'42	5.90774 AU	retrograde	9241 May 22 17:38	12° \approx 42'30	
morning rise	9235 Jul 31 12:46	6° Ω 03'27		opposition	9241 Jul 22 15:38	7° \approx 47'26	0°50'33
	9235 Sep 08 00:09	15° Ω		min. Earth dist.	9241 Jul 23 03:29	7° \approx 43'37	4.50078 AU
retrograde	9235 Dec 10 18:32	26° Ω 57'21		direct	9241 Sep 23 03:29	2° \approx 45'50	
min. Earth dist.	9236 Feb 07 06:29	22° Ω 02'56	3.90683 AU		9242 Jan 02 17:34	15° \approx	
opposition	9236 Feb 08 03:45	21° Ω 55'44	-0°39'03	evening set	9242 Jan 26 10:03	19° \approx 54'43	
direct	9236 Apr 06 02:31	17° Ω 00'52		max. Earth dist.	9242 Feb 07 01:51	22° \approx 24'22	6.49831 AU
	9236 Jul 11 16:28	0° Π					
evening set	9236 Aug 10 23:51	7° Π 05'13		conjunction	9242 Feb 08 09:10	22° \approx 41'10	0°25'47
				minimum elong	9242 Feb 08 09:11	22° \approx 41'10	0°25'58
conjunction	9236 Aug 24 13:05	10° Π 21'47	-0°12'27	morning rise	9242 Feb 21 06:18	25° \approx 26'41	
minimum elong	9236 Aug 24 13:06	10° Π 21'47	0°12'33		9242 Mar 15 02:16	0° X	
behind sun begin	9236 Aug 24 07:46	10° Π 18'34		retrograde	9242 Jun 21 16:58	12° X 04'02	
behind sun end	9236 Aug 24 18:25	10° Π 25'00		opposition	9242 Aug 21 17:48	7° X 10'44	0°22'01
max. Earth dist.	9236 Aug 26 12:40	10° Π 50'35	5.93352 AU	min. Earth dist.	9242 Aug 22 23:01	7° X 01'24	4.47488 AU
morning rise	9236 Sep 07 04:25	13° Π 39'19		direct	9242 Oct 23 11:35	2° X 09'31	
	9236 Nov 25 09:26	0° Ω		evening set	9243 Feb 25 14:08	19° X 29'49	
retrograde	9237 Jan 16 08:25	4° Ω 08'58		max. Earth dist.	9243 Mar 08 08:51	21° X 50'36	6.43049 AU
asc. node	9237 Feb 11 21:54	2° Ω 58'49					
	9237 Mar 09 23:23	30° X Π		conjunction	9243 Mar 10 10:06	22° X 17'30	0°03'10
min. Earth dist.	9237 Mar 15 05:45	29° Π 17'18	3.98575 AU	minimum elong	9243 Mar 10 10:06	22° X 17'30	0°03'13
opposition	9237 Mar 16 17:59	29° Π 04'58	0°03'38	behind sun begin	9243 Mar 10 02:10	22° X 13'11	
direct	9237 May 13 21:13	24° Π 08'18		behind sun end	9243 Mar 10 18:02	22° X 21'49	
	9237 Jul 14 21:58	0° Ω		morning rise	9243 Mar 23 04:12	25° X 04'31	
evening set	9237 Sep 17 17:48	13° Ω 39'05			9243 Apr 15 08:47	0° Y	
				desc. node	9243 Apr 29 22:37	2° Y 53'52	
conjunction	9237 Oct 01 09:30	16° Ω 50'56	0°16'23	retrograde	9243 Jul 22 23:12	12° Y 11'44	
minimum elong	9237 Oct 01 09:28	16° Ω 50'55	0°16'27	opposition	9243 Sep 21 23:21	7° Y 18'51	-0°13'14
max. Earth dist.	9237 Oct 03 21:20	17° Ω 25'59	6.05673 AU	min. Earth dist.	9243 Sep 23 13:33	7° Y 06'39	4.36884 AU
morning rise	9237 Oct 15 02:29	20° Ω 03'04		direct	9243 Nov 23 05:27	2° Y 18'40	
	9237 Nov 29 15:24	0° Π		evening set	9244 Mar 27 12:29	20° Y 11'48	
retrograde	9238 Feb 20 06:28	9° Π 26'23		max. Earth dist.	9244 Apr 06 23:29	22° Y 32'51	6.29327 AU
min. Earth dist.	9238 Apr 19 11:12	4° Π 35'09	4.13908 AU				
opposition	9238 Apr 21 00:41	4° Π 22'28	0°42'32	conjunction	9244 Apr 09 06:57	23° Y 04'09	-0°21'09
	9238 May 31 00:02	30° X Ω		minimum elong	9244 Apr 09 06:56	23° Y 04'08	0°21'15
direct	9238 Jun 19 03:35	29° Ω 23'28		morning rise	9244 Apr 22 00:34	25° Y 56'22	
	9238 Jul 08 11:44	0° Π			9244 May 10 09:38	0° X	
	9238 Oct 09 22:06	15° Π		retrograde	9244 Aug 24 14:48	14° X 01'33	
evening set	9238 Oct 23 16:54	18° Π 03'32		opposition	9244 Oct 24 05:53	9° X 07'53	-0°46'52
				min. Earth dist.	9244 Oct 25 20:07	8° X 55'34	4.20848 AU
conjunction	9238 Nov 06 06:38	21° Π 06'51	0°37'58	direct	9244 Dec 24 11:50	4° X 09'25	
minimum elong	9238 Nov 06 06:36	21° Π 06'51	0°38'11		9245 Mar 24 18:02	15° X	
max. Earth dist.	9238 Nov 08 08:51	21° Π 35'10	6.22605 AU	evening set	9245 Apr 29 03:09	22° X 51'21	
morning rise	9238 Nov 19 20:00	24° Π 09'40		max. Earth dist.	9245 May 10 00:49	25° X 24'11	6.12239 AU
	9238 Dec 16 17:37	0° X					
retrograde	9239 Mar 24 15:50	12° X 18'08		conjunction	9245 May 11 22:57	25° X 51'14	-0°40'04
opposition	9239 May 23 19:19	7° X 16'43	1°04'29	minimum elong	9245 May 11 22:56	25° X 51'13	0°40'18
min. Earth dist.	9239 May 22 17:53	7° X 25'10	4.30848 AU	morning rise	9245 May 24 19:07	28° X 51'39	
direct	9239 Jul 23 06:53	2° X 16'03			9245 May 29 16:40	0° Π	
evening set	9239 Nov 26 08:21	20° X 08'19		retrograde	9245 Sep 29 20:38	18° Π 12'23	
				opposition	9245 Nov 29 00:33	13° Π 16'47	-1°07'32
conjunction	9239 Dec 09 17:21	23° X 03'09	0°46'29	min. Earth dist.	9245 Nov 29 23:44	13° Π 09'11	4.04055 AU

direct	9246 Jan 27 18:40	8° Π 20'34	conjunction	9251 Dec 14 05:06	27° X 30'09	0°46'33
evening set	9246 Jun 03 01:02	27° Π 53'52	minimum elong	9251 Dec 14 05:06	27° X 30'09	0°46'50
	9246 Jun 11 18:14	0° E	max. Earth dist.	9251 Dec 15 02:52	27° X 41'59	6.40315 AU
max. Earth dist.	9246 Jun 15 06:53	0° E 51'15 5.97277 AU		9251 Dec 25 17:23	0° E	
			morning rise	9251 Dec 27 11:47	0° E 22'52	
conjunction	9246 Jun 16 01:29	1° E 02'31 -0°45'57	retrograde	9252 Apr 27 06:23	17° E 25'36	
minimum elong	9246 Jun 16 01:29	1° E 02'31 0°46'15	opposition	9252 Jun 26 21:27	12° E 27'59	1°05'00
morning rise	9246 Jun 29 03:39	4° E 12'19	min. Earth dist.	9252 Jun 26 16:48	12° E 29'30	4.45692 AU
retrograde	9246 Nov 07 07:07	24° E 41'10	direct	9252 Aug 27 17:48	7° E 26'27	
opposition	9247 Jan 05 22:23	19° E 42'33 -1°03'48	evening set	9252 Dec 31 05:59	24° E 42'30	
min. Earth dist.	9247 Jan 05 22:20	19° E 42'34 3.92470 AU				
direct	9247 Mar 05 10:39	14° E 47'52	conjunction	9253 Jan 13 09:02	27° E 30'43	0°39'55
	9247 Jun 19 15:53	0° Ω	minimum elong	9253 Jan 13 09:03	27° E 30'44	0°40'11
evening set	9247 Jul 10 03:30	4° Ω 53'53	max. Earth dist.	9253 Jan 13 00:43	27° E 26'17	6.49145 AU
				9253 Jan 25 00:26	0° \approx	
conjunction	9247 Jul 23 11:14	8° Ω 09'19 -0°34'08	morning rise	9253 Jan 26 10:03	0° \approx 17'53	
minimum elong	9247 Jul 23 11:15	8° Ω 09'19 0°34'23		9253 Apr 21 07:38	15° \approx	
max. Earth dist.	9247 Jul 24 06:51	8° Ω 21'19 5.90261 AU	retrograde	9253 May 26 19:44	16° \approx 53'21	
morning rise	9247 Aug 05 21:18	11° Ω 26'04		9253 Jul 01 07:58	15° R \approx	
	9247 Aug 20 17:38	15° Ω	opposition	9253 Jul 26 18:21	11° \approx 58'33	0°47'12
	9247 Nov 07 17:47	0° M	min. Earth dist.	9253 Jul 27 09:05	11° \approx 53'48	4.50482 AU
retrograde	9247 Dec 16 04:34	2° M 21'01	direct	9253 Sep 27 07:50	6° \approx 56'53	
	9248 Jan 23 14:04	30° R Ω		9253 Dec 15 21:25	15° \approx	
opposition	9248 Feb 13 12:18	27° Ω 19'03 -0°33'33	evening set	9254 Jan 30 13:12	24° \approx 05'17	
min. Earth dist.	9248 Feb 12 12:19	27° Ω 27'10 3.90965 AU	max. Earth dist.	9254 Feb 11 02:17	26° \approx 33'34	6.49555 AU
direct	9248 Apr 11 09:19	22° Ω 24'06				
	9248 Jun 21 05:34	0° M	conjunction	9254 Feb 12 11:56	26° \approx 51'38	0°22'56
evening set	9248 Aug 16 08:16	12° M 26'31	minimum elong	9254 Feb 12 11:57	26° \approx 51'38	0°23'07
			morning rise	9254 Feb 25 08:21	29° \approx 37'02	
conjunction	9248 Aug 29 22:00	15° M 42'52 -0°08'21		9254 Feb 27 03:27	0° H	
minimum elong	9248 Aug 29 22:01	15° M 42'53 0°08'26	retrograde	9254 Jun 25 20:32	16° H 16'14	
behind sun begin	9248 Aug 29 14:42	15° M 38'29	opposition	9254 Aug 25 22:17	11° H 23'04	0°17'23
behind sun end	9248 Aug 30 05:21	15° M 47'17	min. Earth dist.	9254 Aug 27 05:10	11° H 13'13	4.46533 AU
max. Earth dist.	9248 Aug 31 23:58	16° M 13'01 5.94383 AU	direct	9254 Oct 27 14:41	6° H 21'55	
morning rise	9248 Sep 12 14:07	19° M 00'13	evening set	9255 Mar 01 18:09	23° H 45'24	
	9248 Oct 31 17:32	0° $\underline{\Omega}$	desc. node	9255 Mar 09 22:33	25° H 32'35	
asc. node	9248 Dec 22 13:12	7° $\underline{\Omega}$ 56'24	max. Earth dist.	9255 Mar 12 09:25	26° H 04'51	6.41462 AU
retrograde	9249 Jan 21 09:33	9° $\underline{\Omega}$ 23'15				
min. Earth dist.	9249 Mar 20 06:39	4° $\underline{\Omega}$ 32'06 4.00252 AU	conjunction	9255 Mar 14 13:40	26° H 33'31	-0°00'18
opposition	9249 Mar 21 20:47	4° $\underline{\Omega}$ 19'07 0°09'47	minimum elong	9255 Mar 14 13:40	26° H 33'31	0°00'15
	9249 Apr 29 20:58	30° R M	behind sun begin	9255 Mar 14 05:45	26° H 29'12	
direct	9249 May 19 01:47	29° M 22'11	behind sun end	9255 Mar 14 21:35	26° H 37'50	
	9249 Jun 07 10:18	0° $\underline{\Omega}$	morning rise	9255 Mar 27 07:42	29° H 21'05	
evening set	9249 Sep 22 22:28	18° $\underline{\Omega}$ 46'55		9255 Mar 30 07:11	0° Y	
			retrograde	9255 Jul 27 11:50	16° Y 35'04	
conjunction	9249 Oct 06 14:11	21° $\underline{\Omega}$ 57'45 0°20'05	opposition	9255 Sep 26 09:43	11° Y 42'08	-0°18'12
minimum elong	9249 Oct 06 14:10	21° $\underline{\Omega}$ 57'44 0°20'10	min. Earth dist.	9255 Sep 28 01:51	11° Y 29'17	4.34730 AU
max. Earth dist.	9249 Oct 09 02:31	22° $\underline{\Omega}$ 32'55 6.07858 AU	direct	9255 Nov 27 13:51	6° Y 42'01	
morning rise	9249 Oct 20 06:50	25° $\underline{\Omega}$ 08'42	evening set	9256 Mar 31 21:15	24° Y 41'53	
	9249 Nov 10 17:46	0° M	max. Earth dist.	9256 Apr 11 07:52	27° Y 03'30	6.26766 AU
retrograde	9250 Feb 25 00:50	14° M 21'27				
min. Earth dist.	9250 Apr 24 07:03	9° M 29'56 4.16369 AU	conjunction	9256 Apr 13 15:52	27° Y 35'17	-0°24'15
opposition	9250 Apr 25 19:03	9° M 17'47 0°46'49	minimum elong	9256 Apr 13 15:51	27° Y 35'16	0°24'23
direct	9250 Jun 24 03:09	4° M 18'31		9256 Apr 24 07:02	0° E	
	9250 Sep 21 22:04	15° M	morning rise	9256 Apr 26 09:40	0° E 28'37	
evening set	9250 Oct 28 13:50	22° M 50'59		9256 Jul 10 01:46	15° E	
			retrograde	9256 Aug 29 10:39	18° E 44'41	
conjunction	9250 Nov 11 02:59	25° M 52'58 0°40'00		9256 Oct 20 00:26	15° R E	
minimum elong	9250 Nov 11 02:58	25° M 52'57 0°40'14	opposition	9256 Oct 29 00:49	13° E 50'47	-0°50'48
max. Earth dist.	9250 Nov 13 03:32	26° M 20'10 6.25138 AU	min. Earth dist.	9256 Oct 30 13:21	13° E 38'59	4.18063 AU
morning rise	9250 Nov 24 15:39	28° M 54'22	direct	9256 Dec 29 00:32	8° E 52'35	
	9250 Nov 29 14:13	0° X		9257 Mar 04 06:40	15° E	
retrograde	9251 Mar 28 23:18	16° X 52'37	evening set	9257 May 03 20:21	27° E 43'27	
min. Earth dist.	9251 May 27 05:19	11° X 59'39 4.33249 AU		9257 May 13 12:47	0° Π	
opposition	9251 May 28 05:33	11° X 51'36 1°05'53	max. Earth dist.	9257 May 14 21:21	0° Π 19'12	6.09466 AU
direct	9251 Jul 27 20:29	6° X 50'47				
evening set	9251 Nov 30 20:52	24° X 36'28	conjunction	9257 May 16 16:37	0° Π 44'44	-0°41'49

minimum elong	9257 May 16 16:36	0° Π 44'44	0°42'03	max. Earth dist.	9262 Nov 17 18:40	1° Z 00'46	6.27751 AU
morning rise	9257 May 29 13:31	3° Π 46'41		morning rise	9262 Nov 29 10:20	3° Z 36'04	
retrograde	9257 Oct 05 04:35	23° Π 19'50		retrograde	9263 Apr 02 08:26	21° Z 24'18	
opposition	9257 Dec 04 05:31	18° Π 23'50	-1°08'40	opposition	9263 Jun 01 15:19	16° Z 23'46	1°06'53
min. Earth dist.	9257 Dec 05 02:28	18° Π 16'57	4.01539 AU	min. Earth dist.	9263 May 31 18:33	16° Z 30'39	4.35567 AU
direct	9258 Feb 01 19:27	13° Π 27'53		direct	9263 Aug 01 11:57	11° Z 22'48	
	9258 May 25 22:36	0° E		evening set	9263 Dec 05 09:01	29° Z 02'31	
evening set	9258 Jun 08 03:38	3° E 09'09			9263 Dec 09 19:40	0° Z	
conjunction	9258 Jun 21 05:13	6° E 19'13	-0°45'21	conjunction	9263 Dec 18 16:32	1° Z 55'11	0°46'20
minimum elong	9258 Jun 21 05:13	6° E 19'13	0°45'39	minimum elong	9263 Dec 18 16:32	1° Z 55'11	0°46'38
max. Earth dist.	9258 Jun 20 16:21	6° E 11'24	5.95281 AU	max. Earth dist.	9263 Dec 19 10:37	2° Z 04'58	6.42166 AU
morning rise	9258 Jul 04 08:30	9° E 30'29		morning rise	9263 Dec 31 22:19	4° Z 46'50	
	9258 Nov 03 23:29	0° Ω		retrograde	9264 May 01 09:01	21° Z 43'31	
retrograde	9258 Nov 12 21:01	0° Ω 07'47		opposition	9264 Jul 01 02:21	16° Z 46'21	1°03'22
	9258 Nov 21 17:29	30° R E		min. Earth dist.	9264 Jun 30 23:53	16° Z 47'09	4.46987 AU
opposition	9259 Jan 11 09:51	25° E 08'42	-1°00'56	direct	9264 Sep 01 00:55	11° Z 44'47	
min. Earth dist.	9259 Jan 11 05:43	25° E 10'05	3.91250 AU	evening set	9265 Jan 04 12:48	28° Z 58'11	
direct	9259 Mar 10 17:47	20° E 14'09			9265 Jan 09 09:03	0° \approx	
	9259 May 31 08:50	0° Ω					
evening set	9259 Jul 15 13:27	10° Ω 23'11		conjunction	9265 Jan 17 15:11	1° \approx 45'53	0°38'02
conjunction	9259 Jul 28 22:05	13° Ω 39'14	-0°31'04	minimum elong	9265 Jan 17 15:12	1° \approx 45'54	0°38'19
minimum elong	9259 Jul 28 22:07	13° Ω 39'15	0°31'18	max. Earth dist.	9265 Jan 17 02:59	1° \approx 39'22	6.49801 AU
max. Earth dist.	9259 Jul 29 22:11	13° Ω 54'00	5.89933 AU	morning rise	9265 Jan 30 15:25	4° \approx 32'33	
	9259 Aug 03 10:01	15° Ω			9265 Mar 25 09:40	15° \approx	
morning rise	9259 Aug 11 09:25	16° Ω 56'41		retrograde	9265 May 30 23:49	21° \approx 06'35	
	9259 Oct 09 00:41	0° M		opposition	9265 Jul 30 22:40	16° \approx 12'10	0°43'34
retrograde	9259 Dec 21 13:59	7° M 51'07		min. Earth dist.	9265 Jul 31 16:33	16° \approx 06'25	4.50467 AU
opposition	9260 Feb 18 22:57	2° M 48'37	-0°27'39		9265 Aug 09 09:41	15° R \approx	
min. Earth dist.	9260 Feb 17 19:02	2° M 58'06	3.91578 AU	direct	9265 Oct 01 13:47	11° \approx 10'35	
	9260 Mar 12 02:08	30° R Ω			9265 Nov 23 07:57	15° \approx	
direct	9260 Apr 16 19:26	27° Ω 53'25		evening set	9266 Feb 03 18:12	28° \approx 19'49	
	9260 May 22 09:55	0° M			9266 Feb 11 13:13	0° H	
evening set	9260 Aug 21 19:01	17° M 52'18		max. Earth dist.	9266 Feb 15 01:49	0° H 45'31	6.48855 AU
conjunction	9260 Sep 04 09:26	21° M 08'13	-0°04'09	conjunction	9266 Feb 16 16:17	1° H 06'13	0°19'55
minimum elong	9260 Sep 04 09:26	21° M 08'13	0°04'13	minimum elong	9266 Feb 16 16:18	1° H 06'14	0°20'04
behind sun begin	9260 Sep 04 01:11	21° M 03'16		morning rise	9266 Mar 01 12:25	3° H 51'45	
behind sun end	9260 Sep 04 17:41	21° M 13'09		retrograde	9266 Jun 30 05:02	20° H 34'19	
max. Earth dist.	9260 Sep 06 15:21	21° M 40'37	5.95867 AU	opposition	9266 Aug 30 05:41	15° H 41'17	0°12'31
morning rise	9260 Sep 18 01:49	24° M 24'56		min. Earth dist.	9266 Aug 31 14:47	15° H 30'43	4.45194 AU
	9260 Oct 12 01:49	0° $\underline{\Omega}$		direct	9266 Oct 31 21:03	10° H 40'13	
asc. node	9260 Oct 30 22:11	4° $\underline{\Omega}$ 05'02		desc. node	9267 Jan 16 16:24	18° H 21'08	
retrograde	9261 Jan 26 13:04	14° $\underline{\Omega}$ 39'01		evening set	9267 Mar 06 01:07	28° H 08'09	
min. Earth dist.	9261 Mar 25 10:03	9° $\underline{\Omega}$ 47'42	4.02390 AU		9267 Mar 14 13:11	0° Y	
opposition	9261 Mar 27 00:14	9° $\underline{\Omega}$ 34'43	0°15'52	max. Earth dist.	9267 Mar 16 15:41	0° Y 27'48	6.39575 AU
direct	9261 May 24 09:34	4° $\underline{\Omega}$ 37'22		conjunction	9267 Mar 18 20:32	0° Y 56'55	-0°03'51
evening set	9261 Sep 28 03:24	23° $\underline{\Omega}$ 54'14		minimum elong	9267 Mar 18 20:33	0° Y 56'56	0°03'49
conjunction	9261 Oct 11 18:59	27° $\underline{\Omega}$ 03'49	0°23'37	behind sun begin	9267 Mar 18 12:40	0° Y 52'36	
minimum elong	9261 Oct 11 18:58	27° $\underline{\Omega}$ 03'48	0°23'45	behind sun end	9267 Mar 19 04:26	1° Y 01'15	
max. Earth dist.	9261 Oct 14 07:58	27° $\underline{\Omega}$ 39'08	6.10412 AU	morning rise	9267 Mar 31 14:17	3° Y 45'09	
	9261 Oct 24 11:56	0° M		retrograde	9267 Aug 01 02:17	21° Y 06'56	
morning rise	9261 Oct 25 11:16	0° M .13'24		opposition	9267 Sep 30 23:34	16° Y 13'59	-0°23'14
	9262 Jan 07 14:10	15° M		min. Earth dist.	9267 Oct 02 15:45	16° Y 01'08	4.32412 AU
retrograde	9262 Mar 01 15:46	19° M .14'14		direct	9267 Dec 01 23:25	11° Y 14'10	
	9262 Apr 24 10:09	15° R M		evening set	9268 Apr 05 09:54	29° Y 21'23	
min. Earth dist.	9262 Apr 29 00:58	14° M .22'52	4.19071 AU		9268 Apr 08 06:05	0° Z	
opposition	9262 Apr 30 12:46	14° M .10'49	0°50'44	max. Earth dist.	9268 Apr 15 20:45	1° Z 44'00	6.24184 AU
direct	9262 Jun 29 00:19	9° M .11'16		conjunction	9268 Apr 18 04:29	2° Z 15'50	-0°27'18
	9262 Aug 31 15:19	15° M		minimum elong	9268 Apr 18 04:28	2° Z 15'49	0°27'27
evening set	9262 Nov 02 10:04	27° M .35'34		morning rise	9268 Apr 30 22:40	5° Z 10'22	
	9262 Nov 13 05:42	0° Z			9268 Jun 16 00:30	15° Z	
conjunction	9262 Nov 15 22:28	0° Z 36'07	0°41'46	retrograde	9268 Sep 03 12:48	23° Z 37'40	
minimum elong	9262 Nov 15 22:27	0° Z 36'07	0°42'01	opposition	9268 Nov 03 00:06	18° Z 43'35	-0°54'32
				min. Earth dist.	9268 Nov 04 11:37	18° Z 32'04	4.15403 AU

	9268 Dec 05 15:02	15°♏			9274 Jul 30 01:05	15°♍	
direct	9269 Jan 02 19:31	13°♏45'44			9274 Oct 28 02:05	0°♏	
	9269 Jan 30 20:52	15°♏	evening set		9274 Nov 07 02:11	2°♏11'27	
	9269 Apr 26 21:28	0°♐					
evening set	9269 May 08 16:58	2°♐45'00	conjunction		9274 Nov 20 14:06	5°♏10'46	0°43'12
max. Earth dist.	9269 May 19 22:44	5°♐24'24	6.06986 AU	minimum elong	9274 Nov 20 14:05	5°♏10'45	0°43'28
				max. Earth dist.	9274 Nov 22 07:55	5°♏33'57	6.30162 AU
conjunction	9269 May 21 13:57	5°♐47'40	-0°43'19	morning rise	9274 Dec 04 01:01	8°♏09'20	
minimum elong	9269 May 21 13:56	5°♐47'39	0°43'35	retrograde	9275 Apr 06 12:17	25°♏48'37	
morning rise	9269 Jun 03 11:31	8°♐51'01		opposition	9275 Jun 05 21:47	20°♏48'34	1°07'30
retrograde	9269 Oct 10 14:26	28°♐35'21		min. Earth dist.	9275 Jun 05 02:55	20°♏54'48	4.37571 AU
opposition	9269 Dec 09 13:29	23°♐39'04	-1°09'17	direct	9275 Aug 05 21:54	15°♏47'30	
min. Earth dist.	9269 Dec 10 06:49	23°♐33'22	3.99516 AU		9275 Nov 23 19:33	0°♑	
direct	9270 Feb 06 21:52	18°♐43'31		evening set	9275 Dec 09 18:06	3°♑22'21	
	9270 May 07 14:06	0°♑					
evening set	9270 Jun 13 08:56	8°♑30'47		conjunction	9275 Dec 23 00:47	6°♑14'07	0°45'53
				minimum elong	9275 Dec 23 00:47	6°♑14'07	0°46'11
conjunction	9270 Jun 26 11:18	11°♑41'55	-0°44'23	max. Earth dist.	9275 Dec 23 13:04	6°♑20'45	6.43626 AU
minimum elong	9270 Jun 26 11:19	11°♑41'55	0°44'40	morning rise	9276 Jan 05 05:52	9°♑04'55	
max. Earth dist.	9270 Jun 26 03:06	11°♑36'55	5.93924 AU	retrograde	9276 May 05 12:18	25°♑57'04	
morning rise	9270 Jul 09 15:50	14°♑54'22		opposition	9276 Jul 05 05:43	21°♑00'21	1°01'29
	9270 Sep 18 00:38	0°♒		min. Earth dist.	9276 Jul 05 07:14	20°♑59'51	4.47830 AU
retrograde	9270 Nov 18 08:58	5°♒37'13		direct	9276 Sep 05 08:15	15°♑58'43	
opposition	9271 Jan 16 21:41	0°♒37'35	-0°57'32		9276 Dec 24 13:29	0°♒	
min. Earth dist.	9271 Jan 16 12:54	0°♒40'32	3.90745 AU	evening set	9277 Jan 08 17:55	3°♒10'44	
	9271 Jan 21 14:06	30°♒					
direct	9271 Mar 16 02:36	25°♑43'04		conjunction	9277 Jan 21 19:46	5°♒58'10	0°36'01
	9271 May 06 19:58	0°♒		minimum elong	9277 Jan 21 19:47	5°♒58'10	0°36'16
	9271 Jul 17 08:55	15°♒		max. Earth dist.	9277 Jan 21 03:20	5°♒49'23	6.49975 AU
evening set	9271 Jul 20 23:13	15°♒52'20		morning rise	9277 Feb 03 19:23	8°♒44'32	
					9277 Mar 06 07:37	15°♒	
conjunction	9271 Aug 03 08:56	19°♒08'41	-0°27'47	retrograde	9277 Jun 04 02:44	25°♒18'39	
minimum elong	9271 Aug 03 08:57	19°♒08'42	0°28'00	opposition	9277 Aug 04 02:26	20°♒24'28	0°39'48
max. Earth dist.	9271 Aug 04 15:41	19°♒27'29	5.90347 AU	min. Earth dist.	9277 Aug 04 22:12	20°♒18'07	4.49994 AU
morning rise	9271 Aug 16 21:01	22°♒26'18		direct	9277 Oct 05 17:27	15°♒22'55	
	9271 Sep 18 03:35	0°♓			9278 Jan 26 19:21	0°♓	
retrograde	9271 Dec 26 23:07	13°♓16'59		evening set	9278 Feb 07 23:01	2°♓34'17	
min. Earth dist.	9272 Feb 23 01:51	8°♓24'08	3.92853 AU	max. Earth dist.	9278 Feb 19 04:41	4°♓59'17	6.47779 AU
opposition	9272 Feb 24 07:28	8°♓14'05	-0°21'39				
direct	9272 Apr 22 05:42	3°♓18'38		conjunction	9278 Feb 20 20:45	5°♓20'55	0°16'50
evening set	9272 Aug 27 02:54	23°♓11'37		minimum elong	9278 Feb 20 20:46	5°♓20'56	0°16'59
				morning rise	9278 Mar 05 16:22	8°♓06'42	
conjunction	9272 Sep 09 17:40	26°♓26'44	0°00'02	retrograde	9278 Jul 04 13:41	24°♓53'42	
minimum elong	9272 Sep 09 17:41	26°♓26'44	0°00'01	opposition	9278 Sep 03 13:50	20°♓00'47	0°07'38
behind sun begin	9272 Sep 09 12:11	26°♓23'29		min. Earth dist.	9278 Sep 05 00:40	19°♓49'40	4.43583 AU
behind sun end	9272 Sep 09 23:11	26°♓29'59		direct	9278 Nov 05 04:06	14°♓59'53	
asc. node	9272 Sep 09 06:28	26°♓20'03		desc. node	9278 Nov 26 13:30	15°♓40'42	
max. Earth dist.	9272 Sep 12 02:43	27°♓00'49	5.97847 AU		9279 Feb 26 15:01	0°♔	
morning rise	9272 Sep 23 10:19	29°♓42'34		evening set	9279 Mar 10 08:52	2°♔32'51	
	9272 Sep 24 15:46	0°♕		max. Earth dist.	9279 Mar 20 20:53	4°♔51'49	6.37539 AU
retrograde	9273 Jan 31 10:29	19°♕46'03					
min. Earth dist.	9273 Mar 30 08:17	14°♕55'05	4.04848 AU	conjunction	9279 Mar 23 03:58	5°♔22'18	-0°07'17
opposition	9273 Mar 31 23:38	14°♕41'43	0°21'35	minimum elong	9279 Mar 23 03:57	5°♔22'18	0°07'18
direct	9273 May 29 11:19	9°♕44'02		behind sun begin	9279 Mar 22 20:38	5°♔18'16	
evening set	9273 Oct 03 04:21	28°♕52'23		behind sun end	9279 Mar 23 11:16	5°♔26'19	
	9273 Oct 08 02:09	0°♖		morning rise	9279 Apr 04 21:47	8°♔11'19	
				retrograde	9279 Aug 05 19:11	25°♔41'24	
conjunction	9273 Oct 16 19:30	2°♖00'34	0°26'51	opposition	9279 Oct 05 15:05	20°♔48'19	-0°28'09
minimum elong	9273 Oct 16 19:29	2°♖00'33	0°26'59	min. Earth dist.	9279 Oct 07 07:02	20°♔35'30	4.30078 AU
max. Earth dist.	9273 Oct 19 05:40	2°♖34'03	6.13099 AU	direct	9279 Dec 06 11:36	15°♔48'43	
morning rise	9273 Oct 30 11:22	5°♖08'41			9280 Mar 22 20:14	0°♗	
	9273 Dec 15 11:29	15°♖		evening set	9280 Apr 09 23:21	4°♗02'56	
retrograde	9274 Mar 06 03:52	23°♖57'47		max. Earth dist.	9280 Apr 20 13:01	6°♗27'55	6.21747 AU
min. Earth dist.	9274 May 03 17:14	19°♖05'49	4.21723 AU				
opposition	9274 May 05 02:25	18°♖54'39	0°54'09	conjunction	9280 Apr 22 18:13	6°♗58'27	-0°30'11
	9274 Jun 07 20:07	15°♗		minimum elong	9280 Apr 22 18:12	6°♗58'26	0°30'20
direct	9274 Jul 03 19:31	13°♖54'49		morning rise	9280 May 05 12:31	9°♗54'04	

	9280 May 28 07:53	15°♄	direct	9286 Jul 08 12:23	18°♄36'18	
retrograde	9280 Sep 08 13:45	28°♄31'46		9286 Oct 10 19:45	0°♄	
opposition	9280 Nov 08 00:01	23°♄37'28 -0°57'51	evening set	9286 Nov 11 18:17	6°♄46'54	
min. Earth dist.	9280 Nov 09 09:27	23°♄26'38 4.13059 AU				
direct	9281 Jan 07 14:37	18°♄39'59	conjunction	9286 Nov 25 05:22	9°♄45'05 0°44'23	
	9281 Apr 09 06:24	0°♄	minimum elong	9286 Nov 25 05:21	9°♄45'05 0°44'39	
evening set	9281 May 13 14:06	7°♄46'13	max. Earth dist.	9286 Nov 26 18:08	10°♄05'23 6.32153 AU	
max. Earth dist.	9281 May 24 23:00	10°♄28'17 6.04929 AU	morning rise	9286 Dec 08 15:41	12°♄42'33	
				9287 Mar 29 11:56	0°♄	
conjunction	9281 May 26 11:27	10°♄50'00 -0°44'29	retrograde	9287 Apr 10 18:47	0°♄14'32	
minimum elong	9281 May 26 11:26	10°♄49'59 0°44'46		9287 Apr 23 00:40	30°♄	
morning rise	9281 Jun 08 09:54	13°♄54'37	opposition	9287 Jun 10 05:07	25°♄14'59 1°07'44	
	9281 Aug 26 19:48	0°♄	min. Earth dist.	9287 Jun 09 13:29	25°♄20'08 4.39193 AU	
retrograde	9281 Oct 15 22:28	3°♄48'16	direct	9287 Aug 10 09:46	20°♄13'48	
	9281 Dec 06 03:03	30°♄		9287 Nov 06 05:52	0°♄	
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evening set	9282 Jun 18 12:40	13°♄47'39	max. Earth dist.	9287 Dec 27 19:56	10°♄41'19 6.44778 AU	
			morning rise	9288 Jan 09 14:31	13°♄26'12	
conjunction	9282 Jul 01 16:07	16°♄59'42 -0°43'03		9288 Apr 27 03:09	0°♄	
minimum elong	9282 Jul 01 16:08	16°♄59'42 0°43'20	retrograde	9288 May 09 15:12	0°♄14'46	
max. Earth dist.	9282 Jul 01 14:38	16°♄58'47 5.92982 AU		9288 May 22 03:30	30°♄	
morning rise	9282 Jul 14 21:32	20°♄13'02	opposition	9288 Jul 09 10:28	25°♄18'31 0°59'14	
	9282 Aug 26 09:37	0°♄	min. Earth dist.	9288 Jul 09 13:39	25°♄17'29 4.48475 AU	
retrograde	9282 Nov 23 19:54	10°♄59'38	direct	9288 Sep 09 14:34	20°♄16'59	
opposition	9283 Jan 22 07:04	5°♄59'32 -0°53'39		9288 Dec 07 03:30	0°♄	
min. Earth dist.	9283 Jan 21 19:49	6°♄03'19 3.90549 AU	evening set	9289 Jan 13 00:48	7°♄28'11	
direct	9283 Mar 21 10:27	1°♄05'02	max. Earth dist.	9289 Jan 25 05:38	10°♄04'29 6.50089 AU	
	9283 Jun 29 23:26	15°♄				
evening set	9283 Jul 26 06:28	21°♄13'34	conjunction	9289 Jan 26 01:54	10°♄15'19 0°33'46	
			minimum elong	9289 Jan 26 01:55	10°♄15'20 0°34'00	
conjunction	9283 Aug 08 16:59	24°♄30'02 -0°24'18	morning rise	9289 Feb 08 00:58	13°♄01'27	
minimum elong	9283 Aug 08 17:00	24°♄30'03 0°24'29		9289 Feb 17 09:38	15°♄	
max. Earth dist.	9283 Aug 10 03:57	24°♄51'22 5.90898 AU	retrograde	9289 Jun 08 09:13	29°♄35'51	
morning rise	9283 Aug 22 06:01	27°♄47'47	opposition	9289 Aug 08 08:26	24°♄42'00 0°35'44	
	9283 Aug 31 10:01	0°♄	min. Earth dist.	9289 Aug 09 07:04	24°♄34'45 4.49602 AU	
retrograde	9284 Jan 01 03:40	18°♄34'16	direct	9289 Oct 10 01:25	19°♄40'36	
min. Earth dist.	9284 Feb 28 04:05	13°♄42'06 3.94104 AU		9290 Jan 09 16:05	0°♄	
opposition	9284 Feb 29 12:30	13°♄31'06 -0°15'35	evening set	9290 Feb 12 05:10	6°♄53'34	
direct	9284 Apr 27 10:44	8°♄35'25	max. Earth dist.	9290 Feb 23 07:47	9°♄17'18 6.46927 AU	
asc. node	9284 Jul 19 21:26	18°♄36'28				
evening set	9284 Sep 01 08:27	28°♄23'17	conjunction	9290 Feb 25 02:25	9°♄40'22 0°13'37	
	9284 Sep 08 03:23	0°♄	minimum elong	9290 Feb 25 02:26	9°♄40'22 0°13'45	
			behind sun begin	9290 Feb 24 22:09	9°♄38'04	
conjunction	9284 Sep 14 23:26	1°♄37'39 0°04'10	behind sun end	9290 Feb 25 06:42	9°♄42'40	
minimum elong	9284 Sep 14 23:26	1°♄37'40 0°04'10	morning rise	9290 Mar 09 21:41	12°♄26'20	
behind sun begin	9284 Sep 14 15:11	1°♄32'46	retrograde	9290 Jul 08 22:28	29°♄17'04	
behind sun end	9284 Sep 15 07:42	1°♄42'33	opposition	9290 Sep 07 23:23	24°♄24'12 0°02'39	
max. Earth dist.	9284 Sep 17 08:28	2°♄11'36 5.99651 AU	min. Earth dist.	9290 Sep 09 10:19	24°♄13'02 4.42349 AU	
morning rise	9284 Sep 28 16:19	4°♄52'41	desc. node	9290 Oct 06 22:15	21°♄02'25	
retrograde	9285 Feb 05 06:06	24°♄46'49	direct	9290 Nov 09 11:48	19°♄23'30	
min. Earth dist.	9285 Apr 04 06:04	19°♄55'36 4.06992 AU		9291 Feb 09 12:21	0°♄	
opposition	9285 Apr 05 20:40	19°♄42'29 0°27'03	evening set	9291 Mar 14 17:03	7°♄00'02	
direct	9285 Jun 03 12:16	14°♄44'29	max. Earth dist.	9291 Mar 25 06:14	9°♄20'06 6.36027 AU	
	9285 Sep 21 10:03	0°♄				
evening set	9285 Oct 08 03:36	3°♄45'57	conjunction	9291 Mar 27 11:58	9°♄49'58 -0°10'41	
			minimum elong	9291 Mar 27 11:58	9°♄49'58 0°10'43	
conjunction	9285 Oct 21 18:39	6°♄53'00 0°29'53	behind sun begin	9291 Mar 27 05:48	9°♄46'33	
minimum elong	9285 Oct 21 18:38	6°♄53'00 0°30'02	behind sun end	9291 Mar 27 18:07	9°♄53'22	
max. Earth dist.	9285 Oct 24 04:32	7°♄26'09 6.15396 AU	morning rise	9291 Apr 09 05:27	12°♄39'29	
morning rise	9285 Nov 04 09:52	9°♄59'51		9291 Jul 28 08:29	0°♄	
	9285 Nov 26 22:49	15°♄	retrograde	9291 Aug 10 10:36	0°♄16'00	
retrograde	9286 Mar 10 15:31	28°♄38'59		9291 Aug 23 12:09	30°♄	
min. Earth dist.	9286 May 08 07:29	23°♄46'59 4.23959 AU	opposition	9291 Oct 10 06:10	25°♄22'50 -0°32'50	
opposition	9286 May 09 15:25	23°♄36'17 0°57'13	min. Earth dist.	9291 Oct 11 22:01	25°♄10'03 4.28384 AU	






















































































































direct	9291 Dec 11 00:31	20° Υ 23'33		direct	9297 Jun 08 07:40	19° Ω 34'29	
	9292 Mar 05 03:10	0° \mathcal{B}			9297 Sep 03 18:52	0° \mathcal{M}	
evening set	9292 Apr 14 11:40	8° \mathcal{B} 42'26		evening set	9297 Oct 12 23:39	8° \mathcal{M} 30'55	
max. Earth dist.	9292 Apr 25 01:37	11° \mathcal{B} 08'14	6.19997 AU				
conjunction	9292 Apr 27 06:26	11° \mathcal{B} 38'40	-0°32'48	conjunction	9297 Oct 26 14:19	11° \mathcal{M} 37'03	0°32'34
minimum elong	9292 Apr 27 06:24	11° \mathcal{B} 38'39	0°32'58	minimum elong	9297 Oct 26 14:17	11° \mathcal{M} 37'02	0°32'45
morning rise	9292 May 10 01:08	14° \mathcal{B} 35'09		max. Earth dist.	9297 Oct 28 21:17	12° \mathcal{M} 08'23	6.17171 AU
	9292 May 11 20:33	15° \mathcal{B}		morning rise	9297 Nov 09 05:18	14° \mathcal{M} 42'56	
	9292 Jul 28 04:53	0° Π			9297 Nov 10 11:31	15° \mathcal{M}	
retrograde	9292 Sep 13 11:28	3° Π 20'53		retrograde	9298 Jan 27 22:51	0° \mathcal{X}	
	9292 Oct 31 15:26	30° $\mathcal{R}\mathcal{B}$			9298 Mar 15 00:46	3° \mathcal{X} 14'05	
opposition	9292 Nov 12 21:29	28° \mathcal{B} 26'13	-1°00'39	min. Earth dist.	9298 Apr 30 07:11	30° $\mathcal{R}\mathcal{M}$	
min. Earth dist.	9292 Nov 14 04:23	28° \mathcal{B} 16'11	4.11382 AU	opposition	9298 May 12 19:42	28° \mathcal{M} 21'52	4.25690 AU
direct	9293 Jan 12 08:20	23° \mathcal{B} 28'59		direct	9298 May 14 02:02	28° \mathcal{M} 11'42	0°59'47
	9293 Mar 20 05:05	0° Π			9298 Jul 13 02:50	23° \mathcal{M} 11'28	
evening set	9293 May 18 07:34	12° Π 39'46		evening set	9298 Sep 21 06:07	0° \mathcal{X}	
max. Earth dist.	9293 May 29 21:59	15° Π 25'34	6.03482 AU		9298 Nov 16 08:33	11° \mathcal{X} 17'38	
conjunction	9293 May 31 05:35	15° Π 44'26	-0°45'16	conjunction	9298 Nov 29 19:15	14° \mathcal{X} 14'59	0°45'14
minimum elong	9293 May 31 05:34	15° Π 44'26	0°45'34	minimum elong	9298 Nov 29 19:15	14° \mathcal{X} 14'58	0°45'30
morning rise	9293 Jun 13 04:32	18° Π 49'58		max. Earth dist.	9298 Dec 01 06:01	14° \mathcal{X} 34'07	6.33732 AU
	9293 Aug 02 13:44	0° \mathcal{E}		morning rise	9298 Dec 13 04:41	17° \mathcal{X} 11'28	
retrograde	9293 Oct 21 02:59	8° \mathcal{E} 50'34		retrograde	9299 Feb 17 12:53	0° \mathcal{Z}	
opposition	9293 Dec 19 22:51	3° \mathcal{E} 53'24	-1°08'44		9299 Apr 15 00:19	4° \mathcal{Z} 37'19	
min. Earth dist.	9293 Dec 20 10:23	3° \mathcal{E} 49'35	3.96867 AU	opposition	9299 Jun 11 17:11	30° $\mathcal{R}\mathcal{X}$	
	9294 Jan 22 23:54	30° $\mathcal{R}\mathcal{I}$		min. Earth dist.	9299 Jun 14 11:32	29° \mathcal{X} 38'13	1°07'32
direct	9294 Feb 17 00:04	28° Π 58'12		direct	9299 Jun 13 21:40	29° \mathcal{X} 42'47	4.40508 AU
	9294 Mar 13 20:46	0° \mathcal{E}			9299 Aug 14 19:29	24° \mathcal{X} 36'59	
evening set	9294 Jun 23 11:35	18° \mathcal{E} 52'13		evening set	9299 Oct 16 13:31	0° \mathcal{Z}	
conjunction	9294 Jul 06 15:48	22° \mathcal{E} 04'57	-0°41'25	conjunction	9299 Dec 18 13:27	12° \mathcal{Z} 05'12	
minimum elong	9294 Jul 06 15:49	22° \mathcal{E} 04'57	0°41'43	minimum elong	9299 Dec 31 18:48	14° \mathcal{Z} 55'39	0°44'11
max. Earth dist.	9294 Jul 06 17:22	22° \mathcal{E} 05'54	5.92384 AU	maximum elong	9299 Dec 31 18:48	14° \mathcal{Z} 55'39	0°44'28
morning rise	9294 Jul 19 22:20	25° \mathcal{E} 19'02		max. Earth dist.	9299 Dec 31 23:37	14° \mathcal{Z} 58'14	6.45731 AU
	9294 Aug 08 13:35	0° \mathcal{Q}		morning rise	9300 Jan 13 22:25	17° \mathcal{Z} 45'04	
	9294 Nov 02 13:33	15° \mathcal{Q}			9300 Mar 19 15:41	0° \approx	
retrograde	9294 Nov 28 22:42	16° \mathcal{Q} 07'52		retrograde	9300 May 14 19:46	4° \approx 30'27	
	9294 Dec 25 06:17	15° $\mathcal{R}\mathcal{Q}$			9300 Jul 11 08:17	30° $\mathcal{R}\mathcal{Z}$	
opposition	9295 Jan 27 09:56	11° \mathcal{Q} 07'21	-0°49'32	opposition	9300 Jul 14 15:11	29° \mathcal{Z} 34'31	0°56'39
min. Earth dist.	9295 Jan 26 19:18	11° \mathcal{Q} 12'16	3.90516 AU	min. Earth dist.	9300 Jul 14 21:20	29° \mathcal{Z} 32'32	4.49009 AU
direct	9295 Mar 26 10:44	6° \mathcal{Q} 12'44		direct	9300 Sep 14 22:24	24° \mathcal{Z} 32'54	
	9295 Jun 11 06:51	15° \mathcal{Q}			9300 Nov 17 18:51	0° \approx	
evening set	9295 Jul 31 08:08	26° \mathcal{Q} 20'26		evening set	9301 Jan 18 06:40	11° \approx 43'06	
conjunction	9295 Aug 13 19:27	29° \mathcal{Q} 37'03	-0°20'49	max. Earth dist.	9301 Jan 30 09:10	14° \approx 18'09	6.50149 AU
minimum elong	9295 Aug 13 19:28	29° \mathcal{Q} 37'03	0°20'59	conjunction	9301 Jan 31 07:20	14° \approx 30'01	0°31'19
max. Earth dist.	9295 Aug 15 08:44	29° \mathcal{Q} 59'46	5.91429 AU	minimum elong	9301 Jan 31 07:21	14° \approx 30'01	0°31'33
	9295 Aug 15 09:08	0° \mathcal{M}			9301 Feb 02 15:20	15° \approx	
morning rise	9295 Aug 27 09:17	2° \mathcal{M} 54'53		morning rise	9301 Feb 13 05:39	17° \approx 15'52	
retrograde	9296 Jan 06 02:43	23° \mathcal{M} 37'39			9301 Apr 22 20:46	0° \mathcal{H}	
min. Earth dist.	9296 Mar 04 02:46	18° \mathcal{M} 45'24	3.95126 AU	retrograde	9301 Jun 13 12:27	3° \mathcal{H} 50'29	
opposition	9296 Mar 05 11:45	18° \mathcal{M} 34'10	-0°09'45		9301 Aug 05 06:30	30° $\mathcal{R}\approx$	
direct	9296 May 02 11:36	13° \mathcal{M} 38'10		opposition	9301 Aug 13 13:40	28° \approx 56'47	0°31'28
asc. node	9296 Jun 01 08:53	15° \mathcal{M} 07'57		min. Earth dist.	9301 Aug 14 13:14	28° \approx 49'14	4.49166 AU
	9296 Aug 22 22:29	0° \mathcal{A}		direct	9301 Oct 15 06:15	23° \approx 55'26	
evening set	9296 Sep 06 08:43	3° \mathcal{A} 22'10			9301 Dec 22 01:20	0° \mathcal{H}	
conjunction	9296 Sep 20 00:14	6° \mathcal{A} 36'04	0°07'58	evening set	9302 Feb 17 10:31	11° \mathcal{H} 09'57	
minimum elong	9296 Sep 20 00:13	6° \mathcal{A} 36'04	0°07'59	max. Earth dist.	9302 Feb 28 10:44	13° \mathcal{H} 32'44	6.45991 AU
behind sun begin	9296 Sep 19 16:46	6° \mathcal{A} 31'40		conjunction	9302 Mar 02 07:15	13° \mathcal{H} 56'53	0°10'20
behind sun end	9296 Sep 20 07:41	6° \mathcal{A} 40'28		minimum elong	9302 Mar 02 07:15	13° \mathcal{H} 56'53	0°10'26
max. Earth dist.	9296 Sep 22 11:21	7° \mathcal{A} 11'07	6.01079 AU	behind sun begin	9302 Mar 02 00:59	13° \mathcal{H} 53'30	
morning rise	9296 Oct 03 17:09	9° \mathcal{A} 50'27		behind sun end	9302 Mar 02 13:31	14° \mathcal{H} 00'16	
retrograde	9297 Feb 09 23:09	29° \mathcal{A} 36'57		morning rise	9302 Mar 15 02:08	16° \mathcal{H} 43'03	
min. Earth dist.	9297 Apr 08 23:21	24° \mathcal{A} 45'43	4.08669 AU		9302 May 25 05:59	0° \mathcal{Y}	
opposition	9297 Apr 10 13:36	24° \mathcal{A} 32'45	0°32'04	retrograde	9302 Jul 14 08:21	3° \mathcal{Y} 37'52	
				desc. node	9302 Aug 18 05:46	1° \mathcal{Y} 49'08	

	9302 Sep 03 10:36	30° RH		min. Earth dist.	9308 Mar 10 05:34	24° M 03'28	3.96394 AU
opposition	9302 Sep 13 08:29	28° H 45'02 -0°02'23		opposition	9308 Mar 11 16:17	23° M 51'40 -0°03'31	
min. Earth dist.	9302 Sep 14 21:28	28° H 33'13 4.40925 AU		asc. node	9308 Apr 12 07:55	20° M 06'04	
direct	9302 Nov 14 20:38	23° H 44'28		direct	9308 May 08 16:44	18° M 55'27	
	9303 Jan 21 22:15	0° Y			9308 Aug 05 13:40	0° L	
evening set	9303 Mar 20 00:35	11° Y 25'16		evening set	9308 Sep 12 14:45	8° L 34'33	
max. Earth dist.	9303 Mar 30 11:32	13° Y 44'44 6.34190 AU					
				conjunction	9308 Sep 26 06:18	11° L 47'38 0°11'55	
conjunction	9303 Apr 01 19:16	14° Y 15'49 -0°14'03		minimum elong	9308 Sep 26 06:17	11° L 47'37 0°11'58	
minimum elong	9303 Apr 01 19:16	14° Y 15'49 0°14'06		behind sun begin	9308 Sep 26 00:36	11° L 44'17	
behind sun begin	9303 Apr 01 15:14	14° Y 13'35		behind sun end	9308 Sep 26 11:58	11° L 50'58	
behind sun end	9303 Apr 01 23:18	14° Y 18'04		max. Earth dist.	9308 Sep 28 17:42	12° L 22'40 6.02925 AU	
morning rise	9303 Apr 14 12:51	17° Y 06'05		morning rise	9308 Oct 09 23:25	15° L 01'09	
	9303 Jun 19 00:33	0° B			9308 Dec 22 08:04	0° M	
retrograde	9303 Aug 16 02:15	4° B 50'33		retrograde	9309 Feb 15 17:36	4° M 37'55	
opposition	9303 Oct 15 21:42	29° Y 57'13 -0°37'25			9309 Apr 13 04:55	30° R L	
	9303 Oct 15 13:02	30° R Y		min. Earth dist.	9309 Apr 14 19:34	29° L 46'55 4.10914 AU	
min. Earth dist.	9303 Oct 17 12:26	29° Y 44'46 4.26235 AU		opposition	9309 Apr 16 10:11	29° L 33'50 0°37'03	
direct	9303 Dec 16 11:50	24° Y 58'09		direct	9309 Jun 14 07:59	24° L 35'15	
	9304 Feb 13 18:16	0° B			9309 Aug 13 18:49	0° M	
evening set	9304 Apr 20 00:38	13° B 23'37		evening set	9309 Oct 18 22:55	13° M 24'27	
	9304 Apr 26 23:58	15° B			9309 Oct 25 23:50	15° M	
max. Earth dist.	9304 Apr 30 17:40	15° B 51'54 6.17707 AU					
				conjunction	9309 Nov 01 13:15	16° M 29'19 0°35'09	
conjunction	9304 May 02 19:43	16° B 20'53 -0°35'16		minimum elong	9309 Nov 01 13:14	16° M 29'19 0°35'22	
minimum elong	9304 May 02 19:42	16° B 20'52 0°35'29		max. Earth dist.	9309 Nov 03 19:08	16° M 59'54 6.19640 AU	
morning rise	9304 May 15 14:38	19° B 18'28		morning rise	9309 Nov 15 03:27	19° M 33'48	
	9304 Jul 04 09:35	0° I			9310 Jan 04 01:56	0° J	
retrograde	9304 Sep 19 13:59	8° I 14'35		retrograde	9310 Mar 20 12:48	7° J 54'23	
opposition	9304 Nov 18 21:05	3° I 19'43 -1°03'11		min. Earth dist.	9310 May 18 10:13	3° J 01'52 4.28158 AU	
min. Earth dist.	9304 Nov 20 02:57	3° I 09'59 4.09125 AU		opposition	9310 May 19 14:35	2° J 52'24 1°02'05	
	9304 Dec 16 22:53	30° R B			9310 Jun 11 15:14	30° R M	
direct	9305 Jan 18 03:53	28° B 22'48		direct	9310 Jul 18 20:37	27° M 51'58	
	9305 Feb 19 01:41	0° I			9310 Aug 25 09:57	0° J	
evening set	9305 May 24 04:18	17° I 40'37		evening set	9310 Nov 21 23:30	15° J 51'02	
max. Earth dist.	9305 Jun 04 21:38	20° I 28'56 6.01461 AU					
				conjunction	9310 Dec 05 09:21	18° J 47'07 0°45'52	
conjunction	9305 Jun 06 02:55	20° I 46'30 -0°45'47		minimum elong	9310 Dec 05 09:20	18° J 47'07 0°46'10	
minimum elong	9305 Jun 06 02:55	20° I 46'30 0°46'04		max. Earth dist.	9310 Dec 06 16:15	19° J 04'03 6.36000 AU	
morning rise	9305 Jun 19 02:56	23° I 53'24		morning rise	9310 Dec 18 18:01	21° J 42'20	
	9305 Jul 15 09:18	0° E			9311 Jan 28 00:09	0° Z	
retrograde	9305 Oct 27 09:44	14° E 03'18		retrograde	9311 Apr 20 04:21	8° Z 59'57	
opposition	9305 Dec 26 05:05	9° E 05'43 -1°07'40		opposition	9311 Jun 19 17:37	4° Z 01'14 1°07'00	
min. Earth dist.	9305 Dec 26 12:26	9° E 03'17 3.95305 AU		min. Earth dist.	9311 Jun 19 06:08	4° Z 05'00 4.42427 AU	
direct	9306 Feb 23 00:50	4° E 10'44			9311 Jul 25 14:47	30° R J	
evening set	9306 Jun 29 15:35	24° E 09'24		direct	9311 Aug 20 05:13	28° J 59'50	
					9311 Sep 15 03:19	0° Z	
conjunction	9306 Jul 12 20:51	27° E 23'05 -0°39'25		evening set	9311 Dec 23 21:18	16° Z 23'07	
minimum elong	9306 Jul 12 20:53	27° E 23'06 0°39'42					
max. Earth dist.	9306 Jul 13 03:34	27° E 27'11 5.91443 AU		conjunction	9312 Jan 06 02:00	19° Z 12'43 0°43'00	
	9306 Jul 23 13:44	0° L		minimum elong	9312 Jan 06 02:01	19° Z 12'43 0°43'18	
morning rise	9306 Jul 26 04:29	0° L 38'09		max. Earth dist.	9312 Jan 06 04:04	19° Z 13'49 6.47167 AU	
	9306 Sep 29 23:32	15° L		morning rise	9312 Jan 19 04:35	22° Z 01'14	
retrograde	9306 Dec 05 08:49	21° L 30'34			9312 Feb 27 15:53	0° \approx	
opposition	9307 Feb 02 18:30	16° L 29'34 -0°44'50		retrograde	9312 May 18 20:38	8° \approx 42'08	
min. Earth dist.	9307 Feb 02 01:23	16° L 35'21 3.90307 AU		opposition	9312 Jul 18 17:53	3° \approx 46'34 0°53'52	
	9307 Feb 14 00:30	15° R L		min. Earth dist.	9312 Jul 19 02:25	3° \approx 43'48 4.49870 AU	
direct	9307 Apr 01 18:47	11° L 34'53			9312 Aug 21 01:38	30° R Z	
	9307 May 17 13:09	15° L		direct	9312 Sep 19 03:30	28° Z 44'55	
	9307 Jul 30 13:47	0° M			9312 Oct 18 11:44	0° \approx	
evening set	9307 Aug 06 15:48	1° M 42'19			9313 Jan 18 05:40	15° \approx	
				evening set	9313 Jan 22 10:21	15° \approx 53'16	
conjunction	9307 Aug 20 04:07	4° M 59'06 -0°16'59		max. Earth dist.	9313 Feb 03 06:53	18° \approx 25'11 6.50354 AU	
minimum elong	9307 Aug 20 04:07	4° M 59'07 0°17'08					
max. Earth dist.	9307 Aug 21 22:56	5° M 25'08 5.91983 AU		conjunction	9313 Feb 04 10:12	18° \approx 39'48 0°28'48	
morning rise	9307 Sep 02 18:38	8° M 16'59		minimum elong	9313 Feb 04 10:13	18° \approx 39'49 0°29'01	
retrograde	9308 Jan 12 07:37	28° M 55'20		morning rise	9313 Feb 17 08:04	21° \approx 25'23	






























































































































	9313 Apr 01 03:22	0°♏		retrograde	9318 Dec 10 21:47	27°♎00'04	
retrograde	9313 Jun 17 16:19	8°♏00'07		min. Earth dist.	9319 Feb 07 08:54	22°♎05'39	3.90252 AU
opposition	9313 Aug 17 17:02	3°♏06'33	0°27'10	opposition	9319 Feb 08 05:43	21°♎58'38	-0°39'39
min. Earth dist.	9313 Aug 18 19:57	2°♏57'57	4.48692 AU	direct	9319 Apr 07 03:34	17°♎03'52	
	9313 Sep 13 00:03	30°♏			9319 Jul 12 11:39	0°♏	
direct	9313 Oct 19 11:05	28°♏05'09		evening set	9319 Aug 12 02:51	7°♏10'11	
	9313 Nov 24 23:53	0°♏					
evening set	9314 Feb 21 13:19	15°♏21'26		conjunction	9319 Aug 25 15:47	10°♏26'53	-0°12'57
max. Earth dist.	9314 Mar 04 10:35	17°♏42'58	6.44852 AU	minimum elong	9319 Aug 25 15:47	10°♏26'54	0°13'04
				behind sun begin	9319 Aug 25 10:50	10°♏23'54	
conjunction	9314 Mar 06 09:47	18°♏08'38	0°07'04	behind sun end	9319 Aug 25 20:45	10°♏29'53	
minimum elong	9314 Mar 06 09:47	18°♏08'38	0°07'09	max. Earth dist.	9319 Aug 27 13:53	10°♏54'50	5.92845 AU
behind sun begin	9314 Mar 06 02:26	18°♏04'39		morning rise	9319 Sep 08 07:11	13°♏44'41	
behind sun end	9314 Mar 06 17:08	18°♏12'37			9319 Nov 25 17:57	0°♏	
morning rise	9314 Mar 19 04:16	20°♏55'06		retrograde	9320 Jan 17 11:44	4°♏16'40	
	9314 May 02 22:01	0°♏		asc. node	9320 Feb 20 15:47	2°♏23'10	
desc. node	9314 Jun 29 12:59	7°♏21'05			9320 Mar 11 02:50	30°♏	
retrograde	9314 Jul 18 15:06	7°♏54'53		min. Earth dist.	9320 Mar 15 09:09	29°♏25'19	3.98053 AU
opposition	9314 Sep 17 15:53	3°♏02'00	-0°07'19	opposition	9320 Mar 16 22:15	29°♏12'42	0°02'48
min. Earth dist.	9314 Sep 19 05:24	2°♏50'00	4.39177 AU	direct	9320 May 14 00:24	24°♏16'08	
	9314 Oct 13 04:53	30°♏			9320 Jul 14 06:13	0°♏	
direct	9314 Nov 19 00:55	28°♏01'31		evening set	9320 Sep 17 21:54	13°♏48'39	
	9314 Dec 25 19:36	0°♏					
evening set	9315 Mar 24 06:59	15°♏47'47		conjunction	9320 Oct 01 13:36	17°♏00'42	0°15'49
max. Earth dist.	9315 Apr 03 17:37	18°♏07'46	6.31946 AU	minimum elong	9320 Oct 01 13:36	17°♏00'41	0°15'53
				max. Earth dist.	9320 Oct 04 02:22	17°♏36'21	6.05201 AU
conjunction	9315 Apr 06 01:34	18°♏39'10	-0°17'18	morning rise	9320 Oct 15 06:26	20°♏13'01	
minimum elong	9315 Apr 06 01:34	18°♏39'09	0°17'22		9320 Nov 28 21:51	0°♏	
morning rise	9315 Apr 18 19:08	21°♏30'18		retrograde	9321 Feb 20 14:16	9°♏38'28	
	9315 May 28 20:49	0°♏		min. Earth dist.	9321 Apr 19 17:48	4°♏47'08	4.13514 AU
retrograde	9315 Aug 20 20:23	9°♏24'15		opposition	9321 Apr 21 07:06	4°♏34'31	0°41'46
opposition	9315 Oct 20 12:56	4°♏30'47	-0°41'47		9321 Jun 03 18:21	30°♏	
min. Earth dist.	9315 Oct 22 04:38	4°♏18'00	4.23618 AU	direct	9321 Jun 19 10:12	29°♏35'38	
	9315 Dec 03 15:33	30°♏			9321 Jul 05 03:01	0°♏	
direct	9315 Dec 20 23:55	29°♏31'54			9321 Oct 09 03:47	15°♏	
	9316 Jan 07 06:30	0°♏		evening set	9321 Oct 23 22:01	18°♏16'30	
	9316 Apr 11 00:28	15°♏					
evening set	9316 Apr 24 14:06	18°♏05'41		conjunction	9321 Nov 06 11:47	21°♏19'58	0°37'30
max. Earth dist.	9316 May 05 07:51	20°♏35'20	6.14927 AU	minimum elong	9321 Nov 06 11:45	21°♏19'57	0°37'43
				max. Earth dist.	9321 Nov 08 15:43	21°♏49'15	6.22314 AU
conjunction	9316 May 07 09:32	21°♏04'17	-0°37'31	morning rise	9321 Nov 20 01:18	24°♏22'57	
minimum elong	9316 May 07 09:31	21°♏04'16	0°37'45		9321 Dec 15 21:06	0°♏	
morning rise	9316 May 20 05:08	24°♏03'18		retrograde	9322 Mar 24 21:48	12°♏32'37	
	9316 Jun 15 12:36	0°♏		min. Earth dist.	9322 May 22 23:27	7°♏40'03	4.30677 AU
retrograde	9316 Sep 24 16:19	13°♏11'40		opposition	9322 May 24 02:24	7°♏31'04	1°03'57
opposition	9316 Nov 23 22:01	8°♏16'29	-1°05'20	direct	9322 Jul 23 12:07	2°♏30'28	
min. Earth dist.	9316 Nov 25 00:43	8°♏07'46	4.06420 AU	evening set	9322 Nov 26 14:03	20°♏22'46	
direct	9317 Jan 22 22:01	3°♏19'51					
evening set	9317 May 29 03:10	22°♏46'27		conjunction	9322 Dec 09 23:08	23°♏17'39	0°46'14
max. Earth dist.	9317 Jun 10 02:26	25°♏39'11	5.99092 AU	minimum elong	9322 Dec 09 23:08	23°♏17'39	0°46'33
				max. Earth dist.	9322 Dec 11 01:46	23°♏32'11	6.38179 AU
conjunction	9317 Jun 11 02:40	25°♏53'49	-0°45'58	morning rise	9322 Dec 23 06:51	26°♏11'38	
minimum elong	9317 Jun 11 02:40	25°♏53'49	0°46'16		9323 Jan 10 04:00	0°♏	
morning rise	9317 Jun 24 03:40	29°♏02'15		retrograde	9323 Apr 24 10:09	13°♏21'46	
	9317 Jun 28 04:17	0°♏		opposition	9323 Jun 23 23:45	8°♏23'37	1°06'07
retrograde	9317 Nov 01 21:45	19°♏22'47		min. Earth dist.	9323 Jun 23 15:43	8°♏26'14	4.44120 AU
opposition	9317 Dec 31 14:22	14°♏24'45	-1°06'05	direct	9323 Aug 24 15:51	3°♏22'11	
min. Earth dist.	9317 Dec 31 18:42	14°♏23'18	3.93524 AU	evening set	9323 Dec 28 05:22	20°♏41'36	
direct	9318 Feb 28 06:42	9°♏29'55					
evening set	9318 Jul 04 23:02	29°♏33'52		conjunction	9324 Jan 10 09:16	23°♏30'30	0°41'35
	9318 Jul 06 17:57	0°♏		minimum elong	9324 Jan 10 09:17	23°♏30'30	0°41'52
				max. Earth dist.	9324 Jan 10 06:01	23°♏28'45	6.48249 AU
conjunction	9318 Jul 18 05:33	2°♏48'36	-0°37'04	morning rise	9324 Jan 23 11:14	26°♏18'21	
minimum elong	9318 Jul 18 05:35	2°♏48'37	0°37'19		9324 Feb 10 02:48	0°♏	
max. Earth dist.	9318 Jul 18 18:55	2°♏56'47	5.90452 AU	retrograde	9324 May 23 00:15	12°♏56'20	
morning rise	9318 Jul 31 14:20	6°♏04'42		opposition	9324 Jul 22 22:00	8°♏01'08	0°50'46
	9318 Sep 07 22:27	15°♏		min. Earth dist.	9324 Jul 23 09:28	7°♏57'26	4.50301 AU

direct	9324 Sep 23 09:15	2° \approx 59'28		morning rise	9330 Aug 06 01:22	11° Ω 34'13	
	9325 Jan 01 20:47	15° \approx			9330 Aug 20 07:46	15° Ω	
evening set	9325 Jan 26 15:21	20° \approx 07'31			9330 Nov 06 18:15	0° \mathbb{N}	
max. Earth dist.	9325 Feb 07 09:04	22° \approx 38'00	6.50108 AU	retrograde	9330 Dec 16 06:34	2° \mathbb{N} 29'00	
					9331 Jan 24 21:26	30° $\mathbb{R}\Omega$	
conjunction	9325 Feb 08 14:47	22° \approx 53'56	0°26'04	opposition	9331 Feb 13 16:06	27° Ω 27'00	-0°34'11
minimum elong	9325 Feb 08 14:48	22° \approx 53'57	0°26'16	min. Earth dist.	9331 Feb 12 15:24	27° Ω 35'22	3.90940 AU
morning rise	9325 Feb 21 11:54	25° \approx 39'23		direct	9331 Apr 12 13:22	22° Ω 32'02	
	9325 Mar 14 07:17	0° \mathbb{H}			9331 Jun 21 17:07	0° \mathbb{N}	
retrograde	9325 Jun 21 21:13	12° \mathbb{H} 15'50		evening set	9331 Aug 17 12:06	12° \mathbb{N} 34'18	
opposition	9325 Aug 21 22:46	7° \mathbb{H} 22'31	0°22'36				
min. Earth dist.	9325 Aug 23 03:24	7° \mathbb{H} 13'22	4.47789 AU	conjunction	9331 Aug 31 01:44	15° \mathbb{N} 50'33	-0°08'54
direct	9325 Oct 23 15:41	2° \mathbb{H} 21'15		minimum elong	9331 Aug 31 01:44	15° \mathbb{N} 50'33	0°08'59
evening set	9326 Feb 25 19:17	19° \mathbb{H} 40'45		behind sun begin	9331 Aug 30 18:36	15° \mathbb{N} 46'16	
max. Earth dist.	9326 Mar 08 12:55	22° \mathbb{H} 00'53	6.43343 AU	behind sun end	9331 Aug 31 08:52	15° \mathbb{N} 54'50	
				max. Earth dist.	9331 Sep 02 04:19	16° \mathbb{N} 21'05	5.94370 AU
conjunction	9326 Mar 10 15:14	22° \mathbb{H} 28'21	0°03'40	morning rise	9331 Sep 13 17:26	19° \mathbb{N} 07'44	
minimum elong	9326 Mar 10 15:14	22° \mathbb{H} 28'22	0°03'44		9331 Nov 01 05:43	0° $\underline{\Omega}$	
behind sun begin	9326 Mar 10 07:21	22° \mathbb{H} 24'04		asc. node	9331 Dec 31 20:31	8° $\underline{\Omega}$ 44'13	
behind sun end	9326 Mar 10 23:08	22° \mathbb{H} 32'39		retrograde	9332 Jan 22 14:32	9° $\underline{\Omega}$ 30'50	
morning rise	9326 Mar 23 09:36	25° \mathbb{H} 15'20		min. Earth dist.	9332 Mar 20 11:51	4° $\underline{\Omega}$ 39'20	4.00216 AU
	9326 Apr 14 17:31	0° \mathbb{Y}		opposition	9332 Mar 22 01:07	4° $\underline{\Omega}$ 26'39	0°08'52
desc. node	9326 May 08 17:56	4° \mathbb{Y} 40'03			9332 May 02 02:02	30° $\mathbb{R}\mathbb{N}$	
retrograde	9326 Jul 23 04:43	12° \mathbb{Y} 21'27		direct	9332 May 19 07:26	29° \mathbb{N} 29'43	
opposition	9326 Sep 22 03:18	7° \mathbb{Y} 28'36	-0°12'24		9332 Jun 05 13:12	0° $\underline{\Omega}$	
min. Earth dist.	9326 Sep 23 18:46	7° \mathbb{Y} 15'59	4.37136 AU	evening set	9332 Sep 23 01:36	18° $\underline{\Omega}$ 54'05	
direct	9326 Nov 23 10:36	2° \mathbb{Y} 28'15					
evening set	9327 Mar 28 17:04	20° \mathbb{Y} 20'56		conjunction	9332 Oct 06 17:11	22° $\underline{\Omega}$ 04'52	0°19'27
max. Earth dist.	9327 Apr 08 03:17	22° \mathbb{Y} 41'26	6.29521 AU	minimum elong	9332 Oct 06 17:10	22° $\underline{\Omega}$ 04'52	0°19'33
				max. Earth dist.	9332 Oct 09 06:30	22° $\underline{\Omega}$ 40'37	6.07767 AU
conjunction	9327 Apr 10 11:45	23° \mathbb{Y} 13'17	-0°20'34	morning rise	9332 Oct 20 09:44	25° $\underline{\Omega}$ 15'49	
minimum elong	9327 Apr 10 11:44	23° \mathbb{Y} 13'16	0°20'40		9332 Nov 10 07:41	0° \mathbb{M}	
morning rise	9327 Apr 23 05:25	26° \mathbb{Y} 05'27		retrograde	9333 Feb 25 04:07	14° \mathbb{M} 29'13	
	9327 May 10 21:59	0° \mathbb{B}		min. Earth dist.	9333 Apr 24 10:39	9° \mathbb{M} 37'59	4.16226 AU
retrograde	9327 Aug 25 16:58	14° \mathbb{B} 09'39		opposition	9333 Apr 25 23:44	9° \mathbb{M} 25'28	0°45'59
opposition	9327 Oct 25 08:44	9° \mathbb{B} 16'02	-0°46'03	direct	9333 Jun 24 06:15	4° \mathbb{M} 26'16	
min. Earth dist.	9327 Oct 26 22:40	9° \mathbb{B} 03'48	4.20984 AU		9333 Sep 21 09:59	15° \mathbb{M}	
direct	9327 Dec 25 13:43	4° \mathbb{B} 17'29		evening set	9333 Oct 28 17:04	22° \mathbb{M} 58'49	
	9328 Mar 24 06:30	15° \mathbb{B}					
evening set	9328 Apr 29 07:49	22° \mathbb{B} 59'34		conjunction	9333 Nov 11 06:10	26° \mathbb{M} 00'52	0°39'31
max. Earth dist.	9328 May 10 04:58	25° \mathbb{B} 32'04	6.12307 AU	minimum elong	9333 Nov 11 06:08	26° \mathbb{M} 00'51	0°39'46
				max. Earth dist.	9333 Nov 13 05:50	26° \mathbb{M} 27'36	6.24935 AU
conjunction	9328 May 12 03:36	25° \mathbb{B} 59'25	-0°39'36	morning rise	9333 Nov 24 18:57	29° \mathbb{M} 02'24	
minimum elong	9328 May 12 03:35	25° \mathbb{B} 59'25	0°39'50		9333 Nov 29 02:57	0° \mathbb{X}	
morning rise	9328 May 24 23:46	28° \mathbb{B} 59'49		retrograde	9334 Mar 29 05:51	17° \mathbb{X} 01'53	
	9328 May 29 07:18	0° \mathbb{I}		min. Earth dist.	9334 May 27 11:36	12° \mathbb{X} 08'34	4.32994 AU
retrograde	9328 Sep 30 00:31	18° \mathbb{I} 19'58		opposition	9334 May 28 11:03	12° \mathbb{X} 00'46	1°05'23
opposition	9328 Nov 29 03:17	13° \mathbb{I} 24'27	-1°07'03	direct	9334 Jul 28 02:19	6° \mathbb{X} 59'59	
min. Earth dist.	9328 Nov 30 03:51	13° \mathbb{I} 16'24	4.04052 AU	evening set	9334 Dec 01 00:56	24° \mathbb{X} 46'14	
direct	9329 Jan 27 23:11	8° \mathbb{I} 28'10					
evening set	9329 Jun 03 05:39	28° \mathbb{I} 02'03		conjunction	9334 Dec 14 09:23	27° \mathbb{X} 40'07	0°46'20
	9329 Jun 11 09:17	0° \mathbb{E}		minimum elong	9334 Dec 14 09:23	27° \mathbb{X} 40'07	0°46'39
max. Earth dist.	9329 Jun 15 11:17	0° \mathbb{E} 59'18	5.97233 AU	max. Earth dist.	9334 Dec 15 08:17	27° \mathbb{X} 52'34	6.40020 AU
					9334 Dec 25 03:06	0° \mathbb{Z}	
conjunction	9329 Jun 16 06:07	1° \mathbb{E} 10'42	-0°45'48	morning rise	9334 Dec 27 16:14	0° \mathbb{Z} 33'01	
minimum elong	9329 Jun 16 06:07	1° \mathbb{E} 10'42	0°46'07	retrograde	9335 Apr 28 11:37	17° \mathbb{Z} 37'05	
morning rise	9329 Jun 29 08:06	4° \mathbb{E} 20'28		opposition	9335 Jun 28 03:30	12° \mathbb{Z} 39'22	1°04'55
retrograde	9329 Nov 07 10:50	24° \mathbb{E} 48'59		min. Earth dist.	9335 Jun 27 21:42	12° \mathbb{Z} 41'15	4.45396 AU
opposition	9330 Jan 06 01:37	19° \mathbb{E} 50'31	-1°03'53	direct	9335 Aug 28 21:53	7° \mathbb{Z} 37'52	
min. Earth dist.	9330 Jan 06 01:38	19° \mathbb{E} 50'31	3.92428 AU	evening set	9336 Jan 01 11:19	24° \mathbb{Z} 54'44	
direct	9330 Mar 05 13:37	14° \mathbb{E} 55'53					
	9330 Jun 19 06:11	0° Ω		conjunction	9336 Jan 14 14:34	27° \mathbb{Z} 43'08	0°40'00
evening set	9330 Jul 10 08:01	5° Ω 02'12		minimum elong	9336 Jan 14 14:35	27° \mathbb{Z} 43'08	0°40'17
				max. Earth dist.	9336 Jan 14 07:13	27° \mathbb{Z} 39'12	6.48883 AU
conjunction	9330 Jul 23 15:22	8° Ω 17'30	-0°34'23		9336 Jan 25 06:28	0° \approx	
minimum elong	9330 Jul 23 15:24	8° Ω 17'31	0°34'38	morning rise	9336 Jan 27 15:45	0° \approx 30'29	
max. Earth dist.	9330 Jul 24 09:21	8° Ω 28'31	5.90226 AU		9336 Apr 19 10:53	15° \approx	

retrograde	9336 May 27 03:14	17° \approx 06'59		min. Earth dist.	9342 Jan 11 07:03	25° \approx 13'11	3.91759 AU
	9336 Jul 03 20:11	15° \approx		direct	9342 Mar 10 20:15	20° \approx 17'15	
opposition	9336 Jul 27 01:03	12° \approx 12'10	0°47'30		9342 May 31 06:40	0° Ω	
min. Earth dist.	9336 Jul 27 15:44	12° \approx 07'27	4.50275 AU	evening set	9342 Jul 15 14:50	10° Ω 24'32	
direct	9336 Sep 27 14:07	7° \approx 10'35					
	9336 Dec 14 19:49	15° \approx		conjunction	9342 Jul 28 23:18	13° Ω 40'17	-0°31'26
evening set	9337 Jan 30 19:43	24° \approx 19'36		minimum elong	9342 Jul 28 23:19	13° Ω 40'18	0°31'40
max. Earth dist.	9337 Feb 11 08:00	26° \approx 47'32	6.49419 AU	max. Earth dist.	9342 Jul 29 23:39	13° Ω 55'11	5.90329 AU
					9342 Aug 03 09:34	15° Ω	
conjunction	9337 Feb 12 18:33	27° \approx 06'05	0°23'16	morning rise	9342 Aug 11 10:05	16° Ω 57'20	
minimum elong	9337 Feb 12 18:34	27° \approx 06'06	0°23'27		9342 Oct 09 01:13	0° Π	
morning rise	9337 Feb 25 15:23	29° \approx 51'40		retrograde	9342 Dec 21 14:47	7° Π 50'19	
	9337 Feb 26 07:00	0° \mathcal{H}		opposition	9343 Feb 18 23:16	2° Π 47'57	-0°28'30
retrograde	9337 Jun 26 04:36	16° \mathcal{H} 31'18		min. Earth dist.	9343 Feb 17 20:59	2° Π 56'52	3.91799 AU
opposition	9337 Aug 26 05:05	11° \mathcal{H} 38'07	0°17'59		9343 Mar 13 00:20	30° \mathcal{R} Ω	
min. Earth dist.	9337 Aug 27 11:51	11° \mathcal{H} 28'17	4.46494 AU	direct	9343 Apr 17 21:09	27° Ω 52'49	
direct	9337 Oct 27 21:04	6° \mathcal{H} 36'56			9343 May 23 13:22	0° Π	
evening set	9338 Mar 02 01:21	24° \mathcal{H} 00'44		evening set	9343 Aug 22 18:48	17° Π 50'58	
max. Earth dist.	9338 Mar 12 18:33	26° \mathcal{H} 21'10	6.41540 AU				
				conjunction	9343 Sep 05 08:55	21° Π 06'44	-0°04'50
conjunction	9338 Mar 14 21:11	26° \mathcal{H} 48'56	0°00'13	minimum elong	9343 Sep 05 08:55	21° Π 06'44	0°04'55
minimum elong	9338 Mar 14 21:13	26° \mathcal{H} 48'57	0°00'15	behind sun begin	9343 Sep 05 00:45	21° Π 01'51	
behind sun begin	9338 Mar 14 13:17	26° \mathcal{H} 44'38		behind sun end	9343 Sep 05 17:04	21° Π 11'37	
behind sun end	9338 Mar 15 05:08	26° \mathcal{H} 53'16		max. Earth dist.	9343 Sep 07 14:13	21° Π 38'46	5.95878 AU
desc. node	9338 Mar 18 02:55	27° \mathcal{H} 31'35		morning rise	9343 Sep 19 01:06	24° Π 23'22	
morning rise	9338 Mar 27 15:13	29° \mathcal{H} 36'31			9343 Oct 13 03:47	0° $\underline{\Omega}$	
	9338 Mar 29 10:20	0° Υ		asc. node	9343 Nov 10 20:40	6° $\underline{\Omega}$ 03'31	
retrograde	9338 Jul 27 17:41	16° Υ 49'58		retrograde	9344 Jan 27 13:00	14° $\underline{\Omega}$ 38'00	
opposition	9338 Sep 26 15:59	11° Υ 57'07	-0°17'25	min. Earth dist.	9344 Mar 25 10:08	9° $\underline{\Omega}$ 46'56	4.02206 AU
min. Earth dist.	9338 Sep 28 07:20	11° Υ 44'32	4.34945 AU	opposition	9344 Mar 27 00:49	9° $\underline{\Omega}$ 33'47	0°14'46
direct	9338 Nov 27 19:23	6° Υ 57'05		direct	9344 May 24 08:41	4° $\underline{\Omega}$ 36'33	
evening set	9339 Apr 02 04:33	24° Υ 56'30		evening set	9344 Sep 28 03:02	23° $\underline{\Omega}$ 54'03	
max. Earth dist.	9339 Apr 12 15:02	27° Υ 17'58	6.27107 AU				
				conjunction	9344 Oct 11 18:24	27° $\underline{\Omega}$ 03'44	0°22'54
conjunction	9339 Apr 14 23:05	27° Υ 49'46	-0°23'43	minimum elong	9344 Oct 11 18:23	27° $\underline{\Omega}$ 03'43	0°23'02
minimum elong	9339 Apr 14 23:04	27° Υ 49'45	0°23'51	max. Earth dist.	9344 Oct 14 05:33	27° $\underline{\Omega}$ 38'03	6.10040 AU
	9339 Apr 24 12:52	0° \mathcal{B}			9344 Oct 24 11:15	0° \mathcal{M}	
morning rise	9339 Apr 27 17:01	0° \mathcal{B} 43'01		morning rise	9344 Oct 25 10:44	0° \mathcal{M} .13'30	
	9339 Jul 09 18:33	15° \mathcal{B}			9345 Jan 07 10:17	15° \mathcal{M}	
retrograde	9339 Aug 30 16:49	18° \mathcal{B} 57'27		retrograde	9345 Mar 01 18:27	19° \mathcal{M} .16'36	
	9339 Oct 22 22:19	15° \mathcal{R} \mathcal{B}			9345 Apr 24 19:26	15° \mathcal{R} \mathcal{M}	
opposition	9339 Oct 30 06:01	14° \mathcal{B} 03'39	-0°50'02	min. Earth dist.	9345 Apr 29 04:11	14° \mathcal{M} .24'52	4.18546 AU
min. Earth dist.	9339 Oct 31 19:05	13° \mathcal{B} 51'40	4.18513 AU	opposition	9345 Apr 30 15:03	14° \mathcal{M} .13'06	0°49'51
direct	9339 Dec 30 07:13	9° \mathcal{B} 05'25		direct	9345 Jun 29 02:22	9° \mathcal{M} .13'38	
	9340 Mar 03 07:31	15° \mathcal{B}			9345 Aug 31 09:28	15° \mathcal{M}	
evening set	9340 May 04 02:24	27° \mathcal{B} 54'59		evening set	9345 Nov 02 11:03	27° \mathcal{M} .39'30	
	9340 May 12 23:33	0° Π			9345 Nov 12 23:19	0° \mathcal{X}	
max. Earth dist.	9340 May 15 03:43	0° Π 30'43	6.10002 AU				
				conjunction	9345 Nov 15 23:45	0° \mathcal{X} 40'26	0°41'17
conjunction	9340 May 16 22:44	0° Π 56'04	-0°41'23	minimum elong	9345 Nov 15 23:44	0° \mathcal{X} 40'25	0°41'33
minimum elong	9340 May 16 22:43	0° Π 56'04	0°41'38	max. Earth dist.	9345 Nov 17 21:37	1° \mathcal{X} 06'02	6.27120 AU
morning rise	9340 May 29 19:27	3° Π 57'43		morning rise	9345 Nov 29 11:41	3° \mathcal{X} 40'42	
retrograde	9340 Oct 05 06:55	23° Π 28'08		retrograde	9346 Apr 02 11:56	21° \mathcal{X} 31'41	
opposition	9340 Dec 04 08:39	18° Π 32'19	-1°08'12	opposition	9346 Jun 01 19:26	16° \mathcal{X} 31'04	1°06'27
min. Earth dist.	9340 Dec 05 05:45	18° Π 25'24	4.02134 AU	min. Earth dist.	9346 May 31 21:29	16° \mathcal{X} 38'20	4.34886 AU
direct	9341 Feb 01 23:07	13° Π 36'24		direct	9346 Aug 01 13:55	11° \mathcal{X} 30'11	
	9341 May 25 15:00	0° \mathcal{E}		evening set	9346 Dec 05 12:32	29° \mathcal{X} 11'53	
evening set	9341 Jun 08 07:45	3° \mathcal{E} 15'44			9346 Dec 09 05:44	0° \mathcal{Z}	
				conjunction	9346 Dec 18 20:09	2° \mathcal{Z} 04'53	0°46'10
conjunction	9341 Jun 21 08:54	6° \mathcal{E} 25'23	-0°45'15	minimum elong	9346 Dec 18 20:10	2° \mathcal{Z} 04'53	0°46'28
minimum elong	9341 Jun 21 08:54	6° \mathcal{E} 25'23	0°45'34	max. Earth dist.	9346 Dec 19 13:42	2° \mathcal{Z} 14'23	6.41487 AU
max. Earth dist.	9341 Jun 20 18:16	6° \mathcal{E} 16'30	5.95866 AU	morning rise	9347 Jan 01 02:19	4° \mathcal{Z} 56'56	
morning rise	9341 Jul 04 12:01	9° \mathcal{E} 36'16		retrograde	9347 May 02 16:43	21° \mathcal{Z} 56'07	
	9341 Nov 02 10:06	0° Ω		opposition	9347 Jul 02 08:35	16° \mathcal{Z} 58'52	1°03'22
retrograde	9341 Nov 12 20:50	0° Ω 10'49		min. Earth dist.	9347 Jul 02 06:27	16° \mathcal{Z} 59'34	4.46363 AU
	9341 Nov 23 07:07	30° \mathcal{R} \mathcal{E}		direct	9347 Sep 02 07:00	11° \mathcal{Z} 57'21	
opposition	9342 Jan 11 11:06	25° \mathcal{E} 11'50	-1°01'07				

evening set	9348 Jan 05 18:28	29°  12'26		conjunction	9353 Jun 26 07:39	11°  28'38	-0°44'22
	9348 Jan 09 11:51	0° 		minimum elong	9353 Jun 26 07:40	11°  28'38	0°44'40
				max. Earth dist.	9353 Jun 25 22:40	11°  23'10	5.95014 AU
conjunction	9348 Jan 18 21:11	2°  00'28	0°38'09	morning rise	9353 Jul 09 11:30	14°  24'0'17	
minimum elong	9348 Jan 18 21:12	2°  00'29	0°38'26		9353 Sep 19 12:03	0° 	
max. Earth dist.	9348 Jan 18 10:11	1°  54'36	6.49293 AU	retrograde	9353 Nov 18 02:07	5°  18'38	
morning rise	9348 Jan 31 21:42	4°  47'26		opposition	9354 Jan 16 14:45	0°  19'11	-0°57'58
	9348 Mar 24 02:40	15° 		min. Earth dist.	9354 Jan 16 08:47	0°  21'11	3.91464 AU
retrograde	9348 May 31 07:09	21°  23'08			9354 Jan 19 00:05	30° 	
opposition	9348 Jul 31 06:06	16°  28'36	0°43'55	direct	9354 Mar 15 21:59	25°  24'37	
min. Earth dist.	9348 Jul 31 22:19	16°  23'23	4.50142 AU		9354 May 08 14:45	0° 	
	9348 Aug 11 22:16	15° 			9354 Jul 18 11:50	15° 	
direct	9348 Oct 01 19:23	11°  27'05		evening set	9354 Jul 20 16:11	15°  31'46	
	9348 Nov 21 12:27	15° 					
evening set	9349 Feb 04 01:39	28°  37'09		conjunction	9354 Aug 03 01:25	18°  47'47	-0°28'23
	9349 Feb 10 12:28	0° 		minimum elong	9354 Aug 03 01:27	18°  47'48	0°28'36
max. Earth dist.	9349 Feb 15 12:16	1°  04'26	6.48784 AU	max. Earth dist.	9354 Aug 04 04:46	19°  40'29	5.90604 AU
				morning rise	9354 Aug 16 13:15	22°  40'08	
conjunction	9349 Feb 17 00:03	1°  02'34	0°20'16		9354 Sep 19 10:04	0° 	
minimum elong	9349 Feb 17 00:03	1°  02'34	0°20'25	retrograde	9354 Dec 26 15:02	12°  45'41	
morning rise	9349 Mar 01 20:16	4°  09'19		opposition	9355 Feb 23 23:59	7°  53'01	-0°22'54
retrograde	9349 Jun 30 12:44	20°  51'48		min. Earth dist.	9355 Feb 22 19:06	8°  42'49	3.92634 AU
opposition	9349 Aug 30 13:13	15°  58'48	0°13'10	direct	9355 Apr 22 21:11	2°  57'39	
min. Earth dist.	9349 Aug 31 21:28	15°  48'30	4.45417 AU	evening set	9355 Aug 27 19:43	22°  52'18	
direct	9349 Nov 01 04:57	10°  57'50					
desc. node	9350 Jan 25 03:53	20°  08'00		conjunction	9355 Sep 10 10:16	26°  47'39	-0°00'55
evening set	9350 Mar 06 08:55	28°  04'52		minimum elong	9355 Sep 10 10:15	26°  47'39	0°00'58
	9350 Mar 13 14:43	0° 		behind sun begin	9355 Sep 10 01:52	26°  47'39	
max. Earth dist.	9350 Mar 16 23:35	0°  44'28	6.40111 AU	behind sun end	9355 Sep 10 18:39	26°  47'39	
				max. Earth dist.	9355 Sep 12 15:49	26°  47'39	5.97179 AU
conjunction	9350 Mar 19 04:19	1°  13'28	-0°03'19	asc. node	9355 Sep 22 20:56	29°  47'39	
minimum elong	9350 Mar 19 04:17	1°  13'27	0°03'18	morning rise	9355 Sep 24 02:51	29°  47'39	
behind sun begin	9350 Mar 18 20:22	1°  09'07			9355 Sep 26 15:58	0° 	
behind sun end	9350 Mar 19 12:13	1°  17'48		retrograde	9356 Feb 01 06:54	19°  47'39	
morning rise	9350 Mar 31 22:15	4°  09'32		min. Earth dist.	9356 Mar 30 05:26	14°  47'39	4.03819 AU
retrograde	9350 Aug 01 07:58	21°  20'56		opposition	9356 Mar 31 19:22	14°  47'39	0°20'14
opposition	9350 Oct 01 05:32	16°  27'58	-0°22'22	direct	9356 May 29 06:28	9°  47'39	
min. Earth dist.	9350 Oct 02 20:46	16°  15'23	4.33260 AU	evening set	9356 Oct 03 00:01	28°  47'39	
direct	9350 Dec 02 06:38	11°  28'07			9356 Oct 08 15:26	0° 	
evening set	9351 Apr 06 15:34	29°  32'14					
	9351 Apr 08 16:45	0° 		conjunction	9356 Oct 16 15:29	1°  50'54	0°26'02
max. Earth dist.	9351 Apr 17 04:24	1°  55'35	6.25307 AU	minimum elong	9356 Oct 16 15:27	1°  50'53	0°26'10
				max. Earth dist.	9356 Oct 19 02:51	2°  59'41	6.11834 AU
conjunction	9351 Apr 19 10:15	2°  26'14	-0°26'41	morning rise	9356 Oct 30 07:23	4°  59'41	
minimum elong	9351 Apr 19 10:14	2°  26'13	0°26'51		9356 Dec 15 22:17	15° 	
morning rise	9351 May 02 04:08	5°  20'13		retrograde	9357 Mar 06 05:28	23°  54'26	
	9351 Jun 16 12:58	15° 		min. Earth dist.	9357 May 03 16:46	19°  54'26	4.20360 AU
retrograde	9351 Sep 04 12:57	23°  42'34		opposition	9357 May 05 02:48	18°  54'26	0°53'14
opposition	9351 Nov 04 02:05	18°  48'31	-0°53'36		9357 Jun 07 03:56	15° 	
min. Earth dist.	9351 Nov 05 13:21	18°  37'07	4.16737 AU	direct	9357 Jul 03 17:03	13°  54'26	
	9351 Dec 07 17:44	15° 			9357 Jul 30 13:40	15° 	
direct	9352 Jan 03 23:17	13°  50'38			9357 Oct 28 00:37	0° 	
	9352 Jan 31 02:57	15° 		evening set	9357 Nov 07 02:34	2°  54'26	
	9352 Apr 26 22:14	0° 					
evening set	9352 May 08 18:50	2°  45'02		conjunction	9357 Nov 20 14:36	5°  54'26	0°42'42
max. Earth dist.	9352 May 19 22:27	5°  22'44	6.08389 AU	minimum elong	9357 Nov 20 14:35	5°  54'26	0°42'59
				max. Earth dist.	9357 Nov 22 08:06	5°  54'26	6.28810 AU
conjunction	9352 May 21 15:21	5°  46'55	-0°42'50	morning rise	9357 Dec 04 02:05	8°  54'26	
minimum elong	9352 May 21 15:20	5°  46'55	0°43'07	retrograde	9358 Apr 06 18:23	25°  54'26	
morning rise	9352 Jun 03 12:44	8°  49'32		min. Earth dist.	9358 Jun 05 07:13	21°  54'26	4.36343 AU
retrograde	9352 Oct 10 09:09	28°  27'37		opposition	9358 Jun 06 02:26	20°  54'26	1°07'05
opposition	9352 Dec 09 10:15	23°  31'21	-1°08'47	direct	9358 Aug 06 01:07	15°  54'26	
min. Earth dist.	9352 Dec 10 04:18	23°  25'24	4.00832 AU		9358 Nov 23 03:16	0° 	
direct	9353 Feb 06 21:31	18° 35'35		evening set	9358 Dec 09 22:28	3° 54'26	
	9353 May 08 07:34	0°					
evening set	9353 Jun 13 05:34	8° 25'11		conjunction	9358 Dec 23 05:38	6° 54'26	0°45'42
				minimum elong	9358 Dec 23 05:38	6° 54'26	0°46'01

max. Earth dist.	9358 Dec 23 21:13	6°♄34'22	6.42620 AU	direct	9365 Feb 11 21:17	23°♄42'03	
morning rise	9359 Jan 05 10:55	9°♄17'14			9365 Apr 17 08:49	0°♄	
retrograde	9359 May 06 19:09	26°♄12'31		evening set	9365 Jun 18 06:58	13°♄30'08	
opposition	9359 Jul 06 12:56	21°♄15'40	1°01'27				
min. Earth dist.	9359 Jul 06 12:05	21°♄15'57	4.47112 AU	conjunction	9365 Jul 01 09:55	16°♄41'39	-0°43'08
direct	9359 Sep 06 13:05	16°♄14'11		minimum elong	9365 Jul 01 09:55	16°♄41'39	0°43'26
	9359 Dec 24 11:23	0°♄		max. Earth dist.	9365 Jul 01 04:16	16°♄38'13	5.93686 AU
evening set	9360 Jan 10 00:59	3°♄27'53		morning rise	9365 Jul 14 15:03	19°♄54'29	
					9365 Aug 27 15:51	0°♄	
conjunction	9360 Jan 23 02:56	6°♄15'32	0°36'07	retrograde	9365 Nov 23 09:59	10°♄38'22	
minimum elong	9360 Jan 23 02:57	6°♄15'33	0°36'22	opposition	9366 Jan 21 22:31	5°♄38'28	-0°54'16
max. Earth dist.	9360 Jan 22 12:10	6°♄07'38	6.49601 AU	min. Earth dist.	9366 Jan 21 12:20	5°♄41'54	3.90805 AU
morning rise	9360 Feb 05 02:52	9°♄02'10		direct	9366 Mar 21 02:04	0°♄43'54	
	9360 Mar 05 02:33	15°♄			9366 Jul 01 05:06	15°♄	
retrograde	9360 Jun 04 12:01	25°♄37'08		evening set	9366 Jul 25 22:46	20°♄52'22	
opposition	9360 Aug 04 10:38	20°♄42'53	0°40'06				
min. Earth dist.	9360 Aug 05 05:51	20°♄36'43	4.49977 AU	conjunction	9366 Aug 08 08:59	24°♄08'48	-0°24'59
direct	9360 Oct 06 02:27	15°♄41'24		minimum elong	9366 Aug 08 09:00	24°♄08'49	0°25'10
	9361 Jan 25 16:04	0°♄		max. Earth dist.	9366 Aug 09 16:36	24°♄28'06	5.90688 AU
evening set	9361 Feb 08 06:39	2°♄52'21		morning rise	9366 Aug 21 21:43	27°♄26'31	
max. Earth dist.	9361 Feb 19 13:42	5°♄18'00	6.48122 AU		9366 Sep 01 13:15	0°♄	
				retrograde	9366 Dec 31 21:17	18°♄15'01	
conjunction	9361 Feb 21 04:33	5°♄38'56	0°17'10	min. Earth dist.	9367 Feb 27 23:16	13°♄22'18	3.93442 AU
minimum elong	9361 Feb 21 04:33	5°♄38'56	0°17'19	opposition	9367 Mar 01 05:37	13°♄11'59	-0°16'52
morning rise	9361 Mar 06 00:23	8°♄24'39		direct	9367 Apr 28 04:14	8°♄16'20	
retrograde	9361 Jul 04 19:22	25°♄10'05		asc. node	9367 Aug 02 01:06	20°♄58'13	
opposition	9361 Sep 03 20:34	20°♄17'05	0°08'17	evening set	9367 Sep 02 02:13	28°♄07'25	
min. Earth dist.	9361 Sep 05 05:33	20°♄06'33	4.44272 AU		9367 Sep 09 23:22	0°♄	
direct	9361 Nov 05 10:43	15°♄16'12					
desc. node	9361 Dec 04 19:29	16°♄31'53		conjunction	9367 Sep 15 17:21	1°♄22'19	0°03'16
	9362 Feb 25 18:46	0°♄		minimum elong	9367 Sep 15 17:21	1°♄22'19	0°03'15
evening set	9362 Mar 10 15:10	2°♄46'42		behind sun begin	9367 Sep 15 09:00	1°♄17'22	
max. Earth dist.	9362 Mar 21 05:54	5°♄06'49	6.38534 AU	behind sun end	9367 Sep 16 01:41	1°♄27'16	
				max. Earth dist.	9367 Sep 18 02:36	1°♄56'28	5.98647 AU
conjunction	9362 Mar 23 10:22	5°♄35'48	-0°06'44	morning rise	9367 Sep 29 10:06	4°♄37'50	
minimum elong	9362 Mar 23 10:21	5°♄35'47	0°06'45	retrograde	9368 Feb 06 05:16	24°♄36'58	
behind sun begin	9362 Mar 23 02:55	5°♄31'42		min. Earth dist.	9368 Apr 04 03:33	19°♄45'51	4.05790 AU
behind sun end	9362 Mar 23 17:48	5°♄39'53		opposition	9368 Apr 05 18:11	19°♄32'44	0°25'49
morning rise	9362 Apr 05 03:59	8°♄24'23		direct	9368 Jun 03 07:34	14°♄34'55	
retrograde	9362 Aug 05 21:33	25°♄50'29			9368 Sep 21 18:23	0°♄	
opposition	9362 Oct 05 18:32	20°♄57'27	-0°27'12	evening set	9368 Oct 08 01:22	3°♄40'42	
min. Earth dist.	9362 Oct 07 10:24	20°♄44'41	4.31317 AU				
direct	9362 Dec 06 17:15	15°♄57'52		conjunction	9368 Oct 21 16:24	6°♄48'22	0°29'08
	9363 Mar 23 12:50	0°♄		minimum elong	9368 Oct 21 16:23	6°♄48'21	0°29'18
evening set	9363 Apr 11 02:29	4°♄07'49		max. Earth dist.	9368 Oct 24 01:51	7°♄21'21	6.14129 AU
max. Earth dist.	9363 Apr 21 14:33	6°♄31'30	6.23127 AU	morning rise	9368 Nov 04 08:03	9°♄55'56	
					9368 Nov 27 02:36	15°♄	
conjunction	9363 Apr 23 21:03	7°♄02'41	-0°29'32	retrograde	9369 Mar 10 17:54	28°♄40'11	
minimum elong	9363 Apr 23 21:02	7°♄02'41	0°29'42	min. Earth dist.	9369 May 08 08:37	23°♄48'21	4.22777 AU
morning rise	9363 May 06 15:21	9°♄57'42		opposition	9369 May 09 17:28	23°♄37'19	0°56'24
	9363 May 29 05:47	15°♄		direct	9369 Jul 08 12:38	18°♄37'22	
retrograde	9363 Sep 09 10:28	28°♄29'44			9369 Oct 10 14:25	0°♄	
opposition	9363 Nov 08 22:35	23°♄35'26	-0°56'55	evening set	9369 Nov 11 19:53	6°♄51'19	
min. Earth dist.	9363 Nov 10 08:04	23°♄24'34	4.14465 AU				
direct	9364 Jan 08 15:40	18°♄37'46		conjunction	9369 Nov 25 07:24	9°♄50'03	0°43'57
	9364 Apr 09 15:20	0°♄		minimum elong	9369 Nov 25 07:23	9°♄50'03	0°44'14
evening set	9364 May 13 12:36	7°♄39'13		max. Earth dist.	9369 Nov 26 23:11	10°♄12'04	6.31179 AU
max. Earth dist.	9364 May 24 21:12	10°♄20'34	6.06236 AU	morning rise	9369 Dec 08 17:50	12°♄48'00	
					9370 Mar 26 10:39	0°♄	
conjunction	9364 May 26 09:50	10°♄42'19	-0°44'02	retrograde	9370 Apr 11 00:14	0°♄23'08	
minimum elong	9364 May 26 09:49	10°♄42'19	0°44'20		9370 Apr 26 11:54	30°♄	
morning rise	9364 Jun 08 07:46	13°♄46'10		opposition	9370 Jun 10 10:02	25°♄23'24	1°07'22
	9364 Aug 28 03:11	0°♄		min. Earth dist.	9370 Jun 09 16:41	25°♄29'07	4.38481 AU
retrograde	9364 Oct 15 16:19	3°♄34'10		direct	9370 Aug 10 13:12	20°♄22'16	
	9364 Dec 04 00:31	30°♄			9370 Nov 05 14:04	0°♄	
opposition	9364 Dec 14 14:21	28°♄37'34	-1°08'55	evening set	9370 Dec 14 08:26	7°♄54'56	
min. Earth dist.	9364 Dec 15 06:19	28°♄32'18	3.99005 AU				

conjunction	9370 Dec 27 14:38	10°  46'14	0°45'03	max. Earth dist.	9376 May 29 18:37	15°  19'09	6.03636 AU
minimum elong	9370 Dec 27 14:38	10°  46'14	0°45'22				
max. Earth dist.	9370 Dec 28 00:53	10°  51'45	6.44364 AU	conjunction	9376 May 31 05:23	15°  39'55	-0°44'56
morning rise	9371 Jan 09 19:12	13°  36'32		minimum elong	9376 May 31 05:22	15°  39'55	0°45'14
	9371 Apr 24 05:42	0°  ≈		morning rise	9376 Jun 13 04:22	18°  45'22	
retrograde	9371 May 10 21:48	0°  ≈26'03			9376 Aug 02 23:13	0°  ♄	
	9371 May 27 11:38	30°  ♄		retrograde	9376 Oct 20 23:42	8°  ♄45'10	
opposition	9371 Jul 10 16:23	25°  ♄29'33	0°59'18	opposition	9376 Dec 19 20:24	3°  ♄48'10	-1°08'34
min. Earth dist.	9371 Jul 10 19:00	25°  ♄28'42	4.48356 AU	min. Earth dist.	9376 Dec 20 08:07	3°  ♄44'18	3.96813 AU
direct	9371 Sep 10 20:40	20°  ♄27'55			9377 Jan 21 20:06	30°  ♄♂	
	9371 Dec 07 09:20	0°  ≈		direct	9377 Feb 16 21:05	28°  ♂52'55	
evening set	9372 Jan 14 05:22	7°  ≈38'40			9377 Mar 14 20:43	0°  ♄	
				evening set	9377 Jun 23 11:18	18°  ♄48'03	
conjunction	9372 Jan 27 06:48	10°  ≈25'50	0°33'57				
minimum elong	9372 Jan 27 06:49	10°  ≈25'50	0°34'12	conjunction	9377 Jul 06 15:23	22°  ♄00'50	-0°41'32
max. Earth dist.	9372 Jan 26 13:17	10°  ≈16'28	6.50248 AU	minimum elong	9377 Jul 06 15:24	22°  ♄00'51	0°41'51
morning rise	9372 Feb 09 05:55	13°  ≈11'55		max. Earth dist.	9377 Jul 06 15:49	22°  ♄01'06	5.92136 AU
	9372 Feb 17 18:45	15°  ≈		morning rise	9377 Jul 19 21:39	25°  ♄14'57	
retrograde	9372 Jun 08 12:11	29°  ≈45'26			9377 Aug 08 19:28	0°  ♄♂	
opposition	9372 Aug 08 13:08	24°  ≈51'22	0°36'12		9377 Nov 03 02:55	15°  ♄♂	
min. Earth dist.	9372 Aug 09 09:57	24°  ≈44'42	4.49987 AU	retrograde	9377 Nov 28 22:54	16°  ♄♂05'05	
direct	9372 Oct 10 05:14	19°  ≈49'53			9377 Dec 24 16:30	15°  ♄♂♂	
	9373 Jan 09 02:48	0°  ♄♂		opposition	9378 Jan 27 09:14	11°  ♄♂04'42	-0°50'04
evening set	9373 Feb 12 09:13	7°  ♄♂01'16		min. Earth dist.	9378 Jan 26 20:03	11°  ♄♂09'09	3.90086 AU
max. Earth dist.	9373 Feb 23 12:41	9°  ♄♂25'15	6.47474 AU	direct	9378 Mar 26 11:16	6°  ♄♂10'09	
					9378 Jun 11 10:14	15°  ♄♂	
conjunction	9373 Feb 25 06:32	9°  ♄♂47'52	0°14'05	evening set	9378 Jul 31 08:39	26°  ♄♂19'59	
minimum elong	9373 Feb 25 06:32	9°  ♄♂47'52	0°14'13				
behind sun begin	9373 Feb 25 02:41	9°  ♄♂45'48		conjunction	9378 Aug 13 19:58	29°  ♄♂36'51	-0°21'18
behind sun end	9373 Feb 25 10:23	9°  ♄♂49'56		minimum elong	9378 Aug 13 19:59	29°  ♄♂36'51	0°21'30
morning rise	9373 Mar 10 01:54	12°  ♄♂33'39		max. Earth dist.	9378 Aug 15 10:06	0°  ♄♂00'06	5.90879 AU
retrograde	9373 Jul 09 01:27	29°  ♄♂22'18			9378 Aug 15 09:56	0°  ♄♂♂	
opposition	9373 Sep 08 01:59	24°  ♄♂29'22	0°03'29	morning rise	9378 Aug 27 09:35	2°  ♄♂54'53	
min. Earth dist.	9373 Sep 09 13:47	24°  ♄♂17'57	4.42979 AU	retrograde	9379 Jan 06 05:38	23°  ♄♂40'15	
desc. node	9373 Oct 16 11:08	20°  ♄♂20'53		min. Earth dist.	9379 Mar 05 04:36	18°  ♄♂48'08	3.94527 AU
direct	9373 Nov 09 16:21	19°  ♄♂28'33		opposition	9379 Mar 06 13:40	18°  ♄♂36'53	-0°10'38
	9374 Feb 09 07:15	0°  ♄♂♂		direct	9379 May 03 12:12	13°  ♄♂41'02	
evening set	9374 Mar 14 19:38	7°  ♄♂03'10		asc. node	9379 Jun 10 18:40	16°  ♄♂05'24	
max. Earth dist.	9374 Mar 25 07:04	9°  ♄♂22'05	6.36667 AU		9379 Aug 23 16:24	0°  ♄♂♂	
				evening set	9379 Sep 07 11:01	3°  ♄♂27'16	
conjunction	9374 Mar 27 14:35	9°  ♄♂52'52	-0°10'02				
minimum elong	9374 Mar 27 14:35	9°  ♄♂52'52	0°10'05	conjunction	9379 Sep 21 02:17	6°  ♄♂41'24	0°07'21
behind sun begin	9374 Mar 27 08:09	9°  ♄♂49'19		minimum elong	9379 Sep 21 02:16	6°  ♄♂41'23	0°07'22
behind sun end	9374 Mar 27 21:01	9°  ♄♂56'25		behind sun begin	9379 Sep 20 18:37	6°  ♄♂36'52	
morning rise	9374 Apr 09 08:14	12°  ♄♂42'11		behind sun end	9379 Sep 21 09:54	6°  ♄♂45'54	
	9374 Jul 28 06:53	0°  ♄♂		max. Earth dist.	9379 Sep 23 12:42	7°  ♄♂16'04	6.00474 AU
retrograde	9374 Aug 10 09:51	0°  ♄♂16'13		morning rise	9379 Oct 04 19:20	9°  ♄♂56'05	
	9374 Aug 23 13:38	30°  ♄♂♄♂		retrograde	9380 Feb 11 02:34	29°  ♄♂45'12	
opposition	9374 Oct 10 06:17	25°  ♄♂23'02	-0°31'50	min. Earth dist.	9380 Apr 09 02:43	24°  ♄♂54'16	4.08127 AU
min. Earth dist.	9374 Oct 11 21:53	25°  ♄♂10'20	4.28980 AU	opposition	9380 Apr 10 17:59	24°  ♄♂40'56	0°31'12
direct	9374 Dec 11 00:57	20°  ♄♂23'35		direct	9380 Jun 08 11:14	19°  ♄♂42'46	
	9375 Mar 06 05:45	0°  ♄♂			9380 Sep 03 04:28	0°  ♄♂♂	
evening set	9375 Apr 15 12:35	8°  ♄♂40'58		evening set	9380 Oct 13 03:12	8°  ♄♂40'35	
max. Earth dist.	9375 Apr 26 02:52	11°  ♄♂06'43	6.20496 AU				
				conjunction	9380 Oct 26 17:59	11°  ♄♂46'55	0°32'02
conjunction	9375 Apr 28 07:30	11°  ♄♂37'01	-0°32'10	minimum elong	9380 Oct 26 17:57	11°  ♄♂46'55	0°32'14
minimum elong	9375 Apr 28 07:29	11°  ♄♂37'01	0°32'22	max. Earth dist.	9380 Oct 29 02:42	12°  ♄♂19'19	6.16748 AU
morning rise	9375 May 11 02:01	14°  ♄♂33'15		morning rise	9380 Nov 09 08:51	14°  ♄♂53'00	
	9375 May 13 00:49	15°  ♄♂			9380 Nov 09 21:15	15°  ♄♂♂	
retrograde	9375 Jul 29 14:55	0°  ♄♂♂			9381 Jan 26 17:14	0°  ♄♂♂♂	
	9375 Sep 14 10:51	3°  ♄♂♂16'53		retrograde	9381 Mar 15 07:54	3°  ♄♂♂25'52	
	9375 Nov 01 00:48	30°  ♄♂♄♄			9381 May 02 02:17	30°  ♄♂♄♄	
opposition	9375 Nov 13 19:45	28°  ♄♂22'23	-0°59'53	min. Earth dist.	9381 May 13 01:15	28°  ♄♂33'42	4.25401 AU
min. Earth dist.	9375 Nov 15 04:38	28°  ♄♂11'42	4.11730 AU	opposition	9381 May 14 08:04	28°  ♄♂23'23	0°59'10
direct	9376 Jan 13 08:14	23°  ♄♂25'02		direct	9381 Jul 13 08:39	23°  ♄♂23'14	
	9376 Mar 20 14:13	0°  ♄♂♂			9381 Sep 20 07:12	0°  ♄♂♂♂	
evening set	9376 May 18 07:33	12°  ♄♂♂35'22		evening set	9381 Nov 16 13:01	11°  ♄♂♂29'39	

conjunction	9381 Nov 29 23:42	14°♏27'04	0°44'55	direct	9386 Dec 15 14:50	25°♑01'34	
minimum elong	9381 Nov 29 23:41	14°♏27'03	0°45'12		9387 Feb 12 12:08	0°♏	
max. Earth dist.	9381 Dec 01 11:16	14°♏46'39	6.33580 AU	evening set	9387 Apr 20 03:22	13°♏26'43	
morning rise	9381 Dec 13 09:24	17°♏23'41			9387 Apr 26 21:20	15°♏	
	9382 Feb 16 08:48	0°♏		max. Earth dist.	9387 Apr 30 18:14	15°♏53'43	6.17842 AU
retrograde	9382 Apr 15 05:57	4°♏50'08					
	9382 Jun 13 13:52	30°♏♏		conjunction	9387 May 02 22:29	16°♏23'58	-0°34'43
opposition	9382 Jun 14 17:43	29°♏50'50	1°07'16	minimum elong	9387 May 02 22:28	16°♏23'57	0°34'56
min. Earth dist.	9382 Jun 14 02:59	29°♏55'41	4.40494 AU	morning rise	9387 May 15 17:33	19°♏21'31	
direct	9382 Aug 15 00:37	24°♏49'34			9387 Jul 04 06:31	0°♏	
	9382 Oct 15 10:14	0°♏		retrograde	9387 Sep 19 13:52	8°♏16'44	
evening set	9382 Dec 18 18:01	12°♏17'15		opposition	9387 Nov 18 21:40	3°♏21'56	-1°02'33
				min. Earth dist.	9387 Nov 20 03:20	3°♏12'16	4.09160 AU
conjunction	9382 Dec 31 23:37	15°♏07'42	0°44'08		9387 Dec 17 08:41	30°♏♏	
minimum elong	9382 Dec 31 23:37	15°♏07'43	0°44'27	direct	9388 Jan 18 03:47	28°♏24'54	
max. Earth dist.	9383 Jan 01 06:47	15°♏11'34	6.45855 AU		9388 Feb 18 18:25	0°♏	
morning rise	9383 Jan 14 03:11	17°♏57'05		evening set	9388 May 23 07:05	17°♏43'19	
	9383 Mar 18 13:12	0°♏		max. Earth dist.	9388 Jun 04 00:16	20°♏31'33	6.01408 AU
retrograde	9383 May 15 00:28	4°♏42'05					
	9383 Jul 13 01:30	30°♏♏		conjunction	9388 Jun 05 05:41	20°♏49'13	-0°45'32
opposition	9383 Jul 14 20:42	29°♏46'03	0°56'48	minimum elong	9388 Jun 05 05:41	20°♏49'13	0°45'49
min. Earth dist.	9383 Jul 15 01:50	29°♏44'23	4.49243 AU	morning rise	9388 Jun 18 05:31	23°♏56'04	
direct	9383 Sep 15 03:25	24°♏44'27			9388 Jul 14 06:56	0°♏	
	9383 Nov 16 18:31	0°♏		retrograde	9388 Oct 26 12:00	14°♏05'53	
evening set	9384 Jan 18 11:00	11°♏53'31		opposition	9388 Dec 25 06:20	9°♏08'27	-1°07'37
				min. Earth dist.	9388 Dec 25 15:00	9°♏05'34	3.95175 AU
conjunction	9384 Jan 31 11:37	14°♏40'19	0°31'34	direct	9389 Feb 22 03:42	4°♏13'25	
minimum elong	9384 Jan 31 11:38	14°♏40'20	0°31'49	evening set	9389 Jun 28 18:25	24°♏12'58	
max. Earth dist.	9384 Jan 30 12:43	14°♏28'04	6.50464 AU				
	9384 Feb 02 00:25	15°♏		conjunction	9389 Jul 11 23:37	27°♏26'41	-0°39'35
morning rise	9384 Feb 13 10:15	17°♏26'08		minimum elong	9389 Jul 11 23:38	27°♏26'42	0°39'52
	9384 Apr 20 21:53	0°♏		max. Earth dist.	9389 Jul 12 06:30	27°♏30'53	5.91281 AU
retrograde	9384 Jun 12 17:37	3°♏59'44			9389 Jul 22 10:27	0°♏	
	9384 Aug 05 15:52	30°♏♏		morning rise	9389 Jul 25 07:00	0°♏41'44	
opposition	9384 Aug 12 17:57	29°♏05'55	0°32'01		9389 Sep 28 17:01	15°♏	
min. Earth dist.	9384 Aug 13 18:11	28°♏58'09	4.49527 AU	retrograde	9389 Dec 04 11:40	21°♏34'30	
direct	9384 Oct 14 11:37	24°♏04'25		opposition	9390 Feb 01 20:50	16°♏33'38	-0°45'23
	9384 Dec 20 07:51	0°♏		min. Earth dist.	9390 Feb 01 03:32	16°♏39'27	3.90156 AU
evening set	9385 Feb 16 14:08	11°♏17'45			9390 Feb 13 15:41	15°♏♏	
max. Earth dist.	9385 Feb 27 14:41	13°♏40'31	6.46366 AU	direct	9390 Mar 31 20:28	11°♏39'01	
					9390 May 16 04:12	15°♏	
conjunction	9385 Mar 01 11:10	14°♏04'36	0°10'50		9390 Jul 29 09:05	0°♏	
minimum elong	9385 Mar 01 11:10	14°♏04'37	0°10'56	evening set	9390 Aug 05 18:48	1°♏46'56	
behind sun begin	9385 Mar 01 05:08	14°♏01'21					
behind sun end	9385 Mar 01 17:13	14°♏07'52		conjunction	9390 Aug 19 06:42	5°♏03'38	-0°17'29
morning rise	9385 Mar 14 06:07	16°♏50'41		minimum elong	9390 Aug 19 06:42	5°♏03'39	0°17'39
	9385 May 23 14:16	0°♏		max. Earth dist.	9390 Aug 21 00:08	5°♏28'50	5.91844 AU
retrograde	9385 Jul 13 09:48	3°♏44'05		morning rise	9390 Sep 01 21:10	8°♏21'31	
desc. node	9385 Aug 26 15:12	0°♏55'44		retrograde	9391 Jan 11 09:13	29°♏00'20	
	9385 Sep 03 09:20	30°♏♏		min. Earth dist.	9391 Mar 10 08:02	24°♏08'39	3.96268 AU
opposition	9385 Sep 12 10:59	28°♏51'10	-0°01'32	opposition	9391 Mar 11 19:25	23°♏56'36	-0°04'26
min. Earth dist.	9385 Sep 13 23:17	28°♏39'35	4.41287 AU	asc. node	9391 Apr 20 21:10	19°♏33'42	
direct	9385 Nov 13 22:25	23°♏50'29		direct	9391 May 08 19:45	19°♏00'24	
	9386 Jan 20 11:35	0°♏			9391 Aug 05 07:01	0°♏	
evening set	9386 Mar 19 03:45	11°♏30'23		evening set	9391 Sep 12 17:12	8°♏39'33	
max. Earth dist.	9386 Mar 29 14:56	13°♏49'50	6.34506 AU				
				conjunction	9391 Sep 26 08:42	11°♏52'37	0°11'16
conjunction	9386 Mar 31 22:32	14°♏20'50	-0°13'25	minimum elong	9391 Sep 26 08:41	11°♏52'37	0°11'19
minimum elong	9386 Mar 31 22:32	14°♏20'50	0°13'28	behind sun begin	9391 Sep 26 02:37	11°♏49'03	
behind sun begin	9386 Mar 31 17:58	14°♏18'18		behind sun end	9391 Sep 26 14:44	11°♏56'10	
behind sun end	9386 Apr 01 03:05	14°♏23'21		max. Earth dist.	9391 Sep 28 20:52	12°♏28'09	6.02810 AU
morning rise	9386 Apr 13 16:08	17°♏10'59		morning rise	9391 Oct 10 01:30	15°♏06'05	
	9386 Jun 17 16:57	0°♏			9391 Dec 21 20:36	0°♏	
retrograde	9386 Aug 15 05:04	4°♏54'04		retrograde	9392 Feb 15 22:28	4°♏43'36	
opposition	9386 Oct 14 23:05	0°♏00'48	-0°36'30		9392 Apr 13 01:26	30°♏♏	
	9386 Oct 15 01:34	30°♏♏		min. Earth dist.	9392 Apr 14 00:08	29°♏52'19	4.10780 AU
min. Earth dist.	9386 Oct 16 15:33	29°♏47'48	4.26470 AU	opposition	9392 Apr 15 14:09	29°♏39'27	0°36'08

direct	9392 Jun 13 12:34	24° Ω 40'56	opposition	9397 Sep 16 21:15	3° Υ 14'54 -0°06'32
	9392 Aug 12 07:56	0° \mathbb{M}	min. Earth dist.	9397 Sep 18 11:27	3° Υ 02'42 4.39307 AU
evening set	9392 Oct 18 01:11	13° \mathbb{M} 30'05		9397 Oct 14 14:34	30° \mathbb{R} \mathbb{H}
	9392 Oct 24 16:02	15° \mathbb{M}	direct	9397 Nov 18 07:11	28° \mathbb{H} 14'23
				9397 Dec 22 22:02	0° Υ
conjunction	9392 Oct 31 15:27	16° \mathbb{M} 35'00 0°34'36	evening set	9398 Mar 23 13:04	16° Υ 00'31
minimum elong	9392 Oct 31 15:25	16° \mathbb{M} 35'00 0°34'49	max. Earth dist.	9398 Apr 02 23:54	18° Υ 20'31 6.32183 AU
max. Earth dist.	9392 Nov 02 22:05	17° \mathbb{M} 06'00 6.19463 AU			
morning rise	9392 Nov 14 05:45	19° \mathbb{M} 39'35	conjunction	9398 Apr 05 07:53	18° Υ 51'53 -0°16'44
	9393 Jan 02 15:08	0° \mathbb{A}	minimum elong	9398 Apr 05 07:52	18° Υ 51'53 0°16'48
retrograde	9393 Mar 19 15:56	8° \mathbb{A} 01'18	morning rise	9398 Apr 18 01:30	21° Υ 42'59
opposition	9393 May 18 18:59	2° \mathbb{A} 59'12 1°01'27		9398 May 27 01:47	0° \mathbb{B}
min. Earth dist.	9393 May 17 13:37	3° \mathbb{A} 09'01 4.27950 AU	retrograde	9398 Aug 19 23:52	9° \mathbb{B} 35'42
	9393 Jun 11 21:06	30° \mathbb{R} \mathbb{M}	opposition	9398 Oct 19 17:16	4° \mathbb{B} 42'18 -0°40'57
direct	9393 Jul 17 23:17	27° \mathbb{M} 58'51	min. Earth dist.	9398 Oct 21 07:55	4° \mathbb{B} 29'52 4.23978 AU
	9393 Aug 23 11:19	0° \mathbb{A}		9398 Dec 06 21:28	30° \mathbb{R} Υ
evening set	9393 Nov 21 02:23	15° \mathbb{A} 58'18	direct	9398 Dec 20 03:27	29° Υ 43'25
				9399 Jan 02 10:47	0° \mathbb{B}
conjunction	9393 Dec 04 12:22	18° \mathbb{A} 54'31 0°45'34		9399 Apr 10 10:40	15° \mathbb{B}
minimum elong	9393 Dec 04 12:21	18° \mathbb{A} 54'31 0°45'53	evening set	9399 Apr 24 19:34	18° \mathbb{B} 16'17
max. Earth dist.	9393 Dec 05 19:35	19° \mathbb{A} 11'38 6.35773 AU	max. Earth dist.	9399 May 05 13:51	20° \mathbb{B} 46'05 6.15384 AU
morning rise	9393 Dec 17 21:08	21° \mathbb{A} 49'53			
	9394 Jan 26 10:51	0° \mathbb{B}	conjunction	9399 May 07 14:57	21° \mathbb{B} 14'40 -0°37'01
retrograde	9394 Apr 19 10:34	9° \mathbb{B} 08'44	minimum elong	9399 May 07 14:56	21° \mathbb{B} 14'40 0°37'16
opposition	9394 Jun 18 22:38	4° \mathbb{B} 10'00 1°06'48	morning rise	9399 May 20 10:28	24° \mathbb{B} 13'28
min. Earth dist.	9394 Jun 18 11:26	4° \mathbb{B} 13'41 4.42187 AU		9399 Jun 14 23:53	0° \mathbb{H}
	9394 Jul 26 18:58	30° \mathbb{R} \mathbb{A}	retrograde	9399 Sep 24 20:05	13° \mathbb{H} 19'37
direct	9394 Aug 19 10:04	29° \mathbb{A} 08'41	opposition	9399 Nov 24 00:55	8° \mathbb{H} 24'31 -1°04'44
	9394 Sep 12 06:21	0° \mathbb{B}	min. Earth dist.	9399 Nov 25 04:41	8° \mathbb{H} 15'27 4.06938 AU
evening set	9394 Dec 23 01:15	16° \mathbb{B} 32'35	direct	9400 Jan 23 03:03	3° \mathbb{H} 27'50
			evening set	9400 May 29 06:57	22° \mathbb{H} 52'48
conjunction	9395 Jan 05 06:04	19° \mathbb{B} 22'21 0°43'01	max. Earth dist.	9400 Jun 10 05:40	25° \mathbb{H} 44'59 5.99631 AU
minimum elong	9395 Jan 05 06:05	19° \mathbb{B} 22'21 0°43'19			
max. Earth dist.	9395 Jan 05 07:46	19° \mathbb{B} 23'16 6.46925 AU	conjunction	9400 Jun 11 06:21	25° \mathbb{H} 59'51 -0°45'45
morning rise	9395 Jan 18 09:01	22° \mathbb{B} 11'05	minimum elong	9400 Jun 11 06:21	25° \mathbb{H} 59'51 0°46'04
	9395 Feb 25 22:31	0° \approx	morning rise	9400 Jun 24 07:05	29° \mathbb{H} 07'56
retrograde	9395 May 19 02:51	8° \approx 53'06		9400 Jun 27 22:14	0° \mathbb{G}
opposition	9395 Jul 18 23:26	3° \approx 57'27 0°54'06	retrograde	9400 Nov 01 22:05	19° \mathbb{G} 25'37
min. Earth dist.	9395 Jul 19 07:36	3° \approx 54'49 4.49660 AU	opposition	9400 Dec 31 15:15	14° \mathbb{G} 27'45 -1°06'03
	9395 Aug 23 12:38	30° \mathbb{R} \mathbb{B}	min. Earth dist.	9400 Dec 31 19:46	14° \mathbb{G} 26'15 3.94049 AU
direct	9395 Sep 19 07:50	28° \mathbb{B} 55'49	direct	9401 Feb 28 08:03	9° \mathbb{G} 32'56
	9395 Oct 16 09:29	0° \approx	evening set	9401 Jul 05 00:36	29° \mathbb{G} 35'03
	9396 Jan 17 12:40	15° \approx		9401 Jul 06 17:36	0° \mathbb{Q}
evening set	9396 Jan 22 15:13	16° \approx 04'49			
			conjunction	9401 Jul 18 06:36	2° \mathbb{Q} 49'23 -0°37'17
conjunction	9396 Feb 04 15:28	18° \approx 51'32 0°29'05	minimum elong	9401 Jul 18 06:37	2° \mathbb{Q} 49'23 0°37'34
minimum elong	9396 Feb 04 15:29	18° \approx 51'33 0°29'19	max. Earth dist.	9401 Jul 18 17:43	2° \mathbb{Q} 56'11 5.90896 AU
max. Earth dist.	9396 Feb 03 14:03	18° \approx 37'55 6.50207 AU	morning rise	9401 Jul 31 15:09	6° \mathbb{Q} 05'06
morning rise	9396 Feb 17 13:23	21° \approx 37'14		9401 Sep 07 23:17	15° \mathbb{Q}
	9396 Mar 30 06:25	0° \mathbb{H}	retrograde	9401 Dec 10 19:16	26° \mathbb{Q} 58'33
retrograde	9396 Jun 16 21:37	8° \mathbb{H} 12'33	min. Earth dist.	9402 Feb 07 08:43	22° \mathbb{Q} 04'09 3.90558 AU
opposition	9396 Aug 16 22:36	3° \mathbb{H} 19'01 0°27'44	opposition	9402 Feb 08 05:24	21° \mathbb{Q} 57'09 -0°40'21
min. Earth dist.	9396 Aug 18 00:33	3° \mathbb{H} 10'43 4.48628 AU	direct	9402 Apr 07 04:06	17° \mathbb{Q} 02'23
	9396 Sep 14 08:44	30° \mathbb{R} \approx		9402 Jul 12 15:26	0° \mathbb{P}
direct	9396 Oct 18 15:14	28° \approx 17'41	evening set	9402 Aug 12 02:11	7° \mathbb{P} 07'34
	9396 Nov 22 01:50	0° \mathbb{H}			
evening set	9397 Feb 20 19:17	15° \mathbb{H} 34'20	conjunction	9402 Aug 25 14:57	10° \mathbb{P} 24'05 -0°13'35
max. Earth dist.	9397 Mar 03 16:13	17° \mathbb{H} 55'43 6.44882 AU	minimum elong	9402 Aug 25 14:58	10° \mathbb{P} 24'05 0°13'42
			behind sun begin	9402 Aug 25 10:33	10° \mathbb{P} 21'25
conjunction	9397 Mar 05 15:47	18° \mathbb{H} 21'35 0°07'33	behind sun end	9402 Aug 25 19:23	10° \mathbb{P} 26'46
minimum elong	9397 Mar 05 15:48	18° \mathbb{H} 21'36 0°07'38	max. Earth dist.	9402 Aug 27 13:02	10° \mathbb{P} 52'01 5.92993 AU
behind sun begin	9397 Mar 05 08:34	18° \mathbb{H} 17'41	morning rise	9402 Sep 08 05:53	13° \mathbb{P} 41'38
behind sun end	9397 Mar 05 23:02	18° \mathbb{H} 25'30		9402 Nov 26 01:09	0° \mathbb{Q}
morning rise	9397 Mar 18 10:36	21° \mathbb{H} 08'09	retrograde	9403 Jan 17 12:20	4° \mathbb{Q} 13'30
	9397 Apr 30 23:46	0° Υ	asc. node	9403 Mar 02 15:00	1° \mathbb{Q} 10'52
desc. node	9397 Jul 07 03:44	7° Υ 56'56		9403 Mar 11 17:08	30° \mathbb{R} \mathbb{P}
retrograde	9397 Jul 17 22:07	8° Υ 07'43	min. Earth dist.	9403 Mar 16 10:20	29° \mathbb{P} 21'43 3.98014 AU

opposition	9403 Mar 17 22:01	29° \mathbb{M} 09'35	0°01'41	conjunction	9409 Mar 10 22:15	22° \mathbb{H} 42'45	0°04'10
direct	9403 May 15 01:26	24° \mathbb{M} 13'05		minimum elong	9409 Mar 10 22:16	22° \mathbb{H} 42'46	0°04'14
	9403 Jul 15 13:00	0° \mathbb{L}		behind sun begin	9409 Mar 10 14:25	22° \mathbb{H} 38'30	
evening set	9403 Sep 18 20:37	13° \mathbb{L} 45'36		behind sun end	9409 Mar 11 06:07	22° \mathbb{H} 47'02	
				morning rise	9409 Mar 23 16:37	25° \mathbb{H} 29'42	
conjunction	9403 Oct 02 12:08	16° \mathbb{L} 57'41	0°15'03		9409 Apr 13 21:08	0° \mathbb{Y}	
minimum elong	9403 Oct 02 12:07	16° \mathbb{L} 57'41	0°15'08	desc. node	9409 May 17 12:18	6° \mathbb{Y} 22'23	
behind sun begin	9403 Oct 02 09:33	16° \mathbb{L} 56'11		retrograde	9409 Jul 23 09:29	12° \mathbb{Y} 34'37	
behind sun end	9403 Oct 02 14:42	16° \mathbb{L} 59'11		opposition	9409 Sep 22 08:59	7° \mathbb{Y} 41'49	-0°11'35
max. Earth dist.	9403 Oct 05 00:55	17° \mathbb{L} 33'22	6.04964 AU	min. Earth dist.	9409 Sep 23 22:53	7° \mathbb{Y} 29'42	4.37680 AU
morning rise	9403 Oct 16 04:56	20° \mathbb{L} 10'05		direct	9409 Nov 23 15:55	2° \mathbb{Y} 41'35	
	9403 Nov 30 01:22	0° \mathbb{L}		evening set	9410 Mar 28 23:09	20° \mathbb{Y} 32'24	
retrograde	9404 Feb 21 13:57	9° \mathbb{M} 37'07		max. Earth dist.	9410 Apr 08 10:06	22° \mathbb{Y} 53'06	6.30367 AU
min. Earth dist.	9404 Apr 19 17:46	4° \mathbb{M} 46'00	4.13124 AU				
opposition	9404 Apr 21 07:51	4° \mathbb{M} 33'07	0°40'45	conjunction	9410 Apr 10 17:40	23° \mathbb{Y} 24'23	-0°19'58
	9404 Jun 03 08:50	30° \mathbb{R} \mathbb{L}		minimum elong	9410 Apr 10 17:40	23° \mathbb{Y} 24'22	0°20'04
direct	9404 Jun 19 09:03	29° \mathbb{L} 34'18		morning rise	9410 Apr 23 11:24	26° \mathbb{Y} 16'13	
	9404 Jul 05 13:16	0° \mathbb{M}			9410 May 10 08:49	0° \mathbb{B}	
	9404 Oct 09 04:08	15° \mathbb{M}		retrograde	9410 Aug 25 20:10	14° \mathbb{B} 16'47	
evening set	9404 Oct 23 21:34	18° \mathbb{M} 16'17		opposition	9410 Oct 25 11:51	9° \mathbb{B} 23'12	-0°45'07
				min. Earth dist.	9410 Oct 27 01:54	9° \mathbb{B} 10'56	4.22089 AU
conjunction	9404 Nov 06 11:19	21° \mathbb{M} 19'58	0°36'55	direct	9410 Dec 25 19:15	4° \mathbb{B} 24'37	
minimum elong	9404 Nov 06 11:18	21° \mathbb{M} 19'57	0°37'09		9411 Mar 25 00:33	15° \mathbb{B}	
max. Earth dist.	9404 Nov 08 14:20	21° \mathbb{M} 48'46	6.21798 AU	evening set	9411 Apr 30 10:42	23° \mathbb{B} 02'44	
morning rise	9404 Nov 20 01:00	24° \mathbb{M} 23'15		max. Earth dist.	9411 May 11 08:10	25° \mathbb{B} 34'58	6.13593 AU
	9404 Dec 15 19:28	0° \mathbb{X}					
retrograde	9405 Mar 25 01:51	12° \mathbb{X} 35'25		conjunction	9411 May 13 06:26	26° \mathbb{B} 02'00	-0°39'04
min. Earth dist.	9405 May 23 02:57	7° \mathbb{X} 42'28	4.30076 AU	minimum elong	9411 May 13 06:25	26° \mathbb{B} 01'59	0°39'18
opposition	9405 May 24 05:07	7° \mathbb{X} 33'44	1°03'21	morning rise	9411 May 26 02:17	29° \mathbb{B} 01'43	
direct	9405 Jul 23 14:37	2° \mathbb{X} 33'10			9411 May 30 06:48	0° \mathbb{I}	
evening set	9405 Nov 26 15:29	20° \mathbb{X} 27'07		retrograde	9411 Sep 30 20:39	18° \mathbb{I} 16'02	
				opposition	9411 Nov 30 01:32	13° \mathbb{I} 20'38	-1°06'23
conjunction	9405 Dec 10 00:53	23° \mathbb{X} 22'22	0°45'58	min. Earth dist.	9411 Dec 01 02:14	13° \mathbb{I} 12'34	4.05415 AU
minimum elong	9405 Dec 10 00:53	23° \mathbb{X} 22'22	0°46'17	direct	9412 Jan 28 22:55	8° \mathbb{I} 24'17	
max. Earth dist.	9405 Dec 11 04:48	23° \mathbb{X} 37'37	6.37531 AU	evening set	9412 Jun 03 03:57	27° \mathbb{I} 53'17	
morning rise	9405 Dec 23 08:52	26° \mathbb{X} 16'43			9412 Jun 11 22:38	0° \mathbb{E}	
	9406 Jan 09 19:46	0° \mathbb{Z}		max. Earth dist.	9412 Jun 15 06:40	0° \mathbb{E} 48'20	5.98510 AU
retrograde	9406 Apr 24 13:53	13° \mathbb{Z} 29'22					
opposition	9406 Jun 24 04:04	8° \mathbb{Z} 31'03	1°05'59	conjunction	9412 Jun 16 03:52	1° \mathbb{E} 01'08	-0°45'37
min. Earth dist.	9406 Jun 23 18:46	8° \mathbb{Z} 34'05	4.43484 AU	minimum elong	9412 Jun 16 03:53	1° \mathbb{E} 01'08	0°45'57
direct	9406 Aug 24 17:47	3° \mathbb{Z} 29'39		morning rise	9412 Jun 29 05:31	4° \mathbb{E} 10'07	
evening set	9406 Dec 28 09:10	20° \mathbb{Z} 50'50		retrograde	9412 Nov 07 02:40	24° \mathbb{E} 33'06	
				opposition	9413 Jan 05 19:17	19° \mathbb{E} 34'45	-1°04'01
conjunction	9407 Jan 10 13:21	23° \mathbb{Z} 40'03	0°41'38	min. Earth dist.	9413 Jan 05 20:34	19° \mathbb{E} 34'19	3.93450 AU
minimum elong	9407 Jan 10 13:22	23° \mathbb{Z} 40'03	0°41'56	direct	9413 Mar 05 09:57	14° \mathbb{E} 40'00	
max. Earth dist.	9407 Jan 10 11:17	23° \mathbb{Z} 38'57	6.47685 AU		9413 Jun 20 07:59	0° \mathbb{O}	
morning rise	9407 Jan 23 15:32	26° \mathbb{Z} 28'13		evening set	9413 Jul 10 01:27	4° \mathbb{O} 42'56	
	9407 Feb 09 11:25	0° \mathbb{A}					
retrograde	9407 May 24 07:13	13° \mathbb{A} 08'08		conjunction	9413 Jul 23 08:32	7° \mathbb{O} 57'44	-0°34'48
opposition	9407 Jul 24 03:57	8° \mathbb{A} 12'53	0°51'03	minimum elong	9413 Jul 23 08:33	7° \mathbb{O} 57'45	0°35'04
min. Earth dist.	9407 Jul 24 15:02	8° \mathbb{A} 09'19	4.49854 AU	max. Earth dist.	9413 Jul 24 01:20	8° \mathbb{O} 08'01	5.90892 AU
direct	9407 Sep 24 14:31	3° \mathbb{A} 11'19		morning rise	9413 Aug 05 17:51	11° \mathbb{O} 13'52	
	9408 Jan 02 00:39	15° \mathbb{A}			9413 Aug 21 11:13	15° \mathbb{O}	
evening set	9408 Jan 27 21:08	20° \mathbb{A} 20'33			9413 Nov 09 14:29	0° \mathbb{M}	
				retrograde	9413 Dec 15 22:58	2° \mathbb{M} 06'35	
conjunction	9408 Feb 09 20:43	23° \mathbb{A} 07'12	0°26'22		9414 Jan 21 05:52	30° \mathbb{R} \mathbb{O}	
minimum elong	9408 Feb 09 20:44	23° \mathbb{A} 07'12	0°26'35	min. Earth dist.	9414 Feb 12 09:51	27° \mathbb{O} 12'18	3.91156 AU
max. Earth dist.	9408 Feb 08 14:52	22° \mathbb{A} 51'11	6.49832 AU	opposition	9414 Feb 13 07:54	27° \mathbb{O} 04'51	-0°35'15
morning rise	9408 Feb 22 18:17	25° \mathbb{A} 52'53		direct	9414 Apr 12 06:21	22° \mathbb{O} 09'57	
	9408 Mar 13 10:52	0° \mathbb{H}			9414 Jun 23 07:55	0° \mathbb{M}	
retrograde	9408 Jun 22 04:57	12° \mathbb{H} 30'07		evening set	9414 Aug 17 03:45	12° \mathbb{M} 12'09	
opposition	9408 Aug 22 05:20	7° \mathbb{H} 36'45	0°23'12				
min. Earth dist.	9408 Aug 23 09:10	7° \mathbb{H} 27'51	4.47740 AU	conjunction	9414 Aug 30 17:02	15° \mathbb{M} 28'24	-0°09'47
direct	9408 Oct 23 21:38	2° \mathbb{H} 35'31		minimum elong	9414 Aug 30 17:03	15° \mathbb{M} 28'24	0°09'52
evening set	9409 Feb 26 01:57	19° \mathbb{H} 55'07		behind sun begin	9414 Aug 30 10:16	15° \mathbb{M} 24'19	
max. Earth dist.	9409 Mar 08 22:38	22° \mathbb{H} 16'47	6.43573 AU	behind sun end	9414 Aug 30 23:50	15° \mathbb{M} 32'29	
				max. Earth dist.	9414 Sep 01 16:59	15° \mathbb{M} 57'21	5.94113 AU

morning rise	9414 Sep 13 08:38	18° \mathbb{M} 45'39	direct	9420 Oct 28 03:59	6° \mathbb{X} 52'00	
	9414 Nov 02 15:37	0° \mathbb{L}	evening set	9421 Mar 02 07:32	24° \mathbb{X} 14'14	
asc. node	9415 Jan 13 11:59	9° \mathbb{L} 03'18	max. Earth dist.	9421 Mar 13 00:47	26° \mathbb{X} 34'32	6.42244 AU
retrograde	9415 Jan 22 07:46	9° \mathbb{L} 11'05				
min. Earth dist.	9415 Mar 21 05:15	4° \mathbb{L} 19'44	3.99544 AU	conjunction	9421 Mar 15 03:21	27° \mathbb{X} 02'12 0°00'44
opposition	9415 Mar 22 18:20	4° \mathbb{L} 07'08	0°07'27	minimum elong	9421 Mar 15 03:19	27° \mathbb{X} 02'11 0°00'46
	9415 Apr 27 21:27	30° \mathbb{R} \mathbb{M}		behind sun begin	9421 Mar 14 19:21	26° \mathbb{X} 57'51
direct	9415 May 19 22:42	29° \mathbb{M} 10'21		behind sun end	9421 Mar 15 11:17	27° \mathbb{X} 06'32
	9415 Jun 11 03:41	0° \mathbb{L}		desc. node	9421 Mar 26 18:09	29° \mathbb{X} 34'37
evening set	9415 Sep 23 18:55	18° \mathbb{L} 37'48		morning rise	9421 Mar 27 21:33	29° \mathbb{X} 49'32
					9421 Mar 28 16:47	0° \mathbb{Y}
conjunction	9415 Oct 07 10:27	21° \mathbb{L} 49'04	0°18'33	retrograde	9421 Jul 27 21:17	17° \mathbb{Y} 00'00
minimum elong	9415 Oct 07 10:26	21° \mathbb{L} 49'03	0°18'39	opposition	9421 Sep 26 19:53	12° \mathbb{Y} 07'04 -0°16'33
max. Earth dist.	9415 Oct 09 21:25	22° \mathbb{L} 23'33	6.06759 AU	min. Earth dist.	9421 Sep 28 10:32	11° \mathbb{Y} 54'42 4.35940 AU
morning rise	9415 Oct 21 03:08	25° \mathbb{L} 00'34		direct	9421 Nov 28 00:45	7° \mathbb{Y} 06'56
	9415 Nov 12 03:18	0° \mathbb{M}		evening set	9422 Apr 02 08:10	25° \mathbb{Y} 02'53
retrograde	9416 Feb 26 03:07	14° \mathbb{M} 19'05		max. Earth dist.	9422 Apr 12 20:13	27° \mathbb{Y} 24'48 6.28328 AU
min. Earth dist.	9416 Apr 24 09:08	9° \mathbb{M} 27'32	4.14999 AU			
opposition	9416 Apr 25 21:12	9° \mathbb{M} 15'21	0°44'53	conjunction	9422 Apr 15 02:49	27° \mathbb{Y} 55'40 -0°23'05
direct	9416 Jun 24 02:33	4° \mathbb{M} 16'16		minimum elong	9422 Apr 15 02:48	27° \mathbb{Y} 55'40 0°23'13
	9416 Sep 21 21:29	15° \mathbb{M}			9422 Apr 24 06:42	0° \mathbb{B}
evening set	9416 Oct 28 14:07	22° \mathbb{M} 53'07		morning rise	9422 Apr 27 20:28	0° \mathbb{B} 48'20
					9422 Jul 09 15:21	15° \mathbb{B}
conjunction	9416 Nov 11 03:37	25° \mathbb{M} 55'54	0°38'55	retrograde	9422 Aug 30 14:31	18° \mathbb{B} 57'36
minimum elong	9416 Nov 11 03:36	25° \mathbb{M} 55'53	0°39'10		9422 Oct 22 22:19	15° \mathbb{R} \mathbb{B}
max. Earth dist.	9416 Nov 13 05:20	26° \mathbb{M} 23'51	6.23612 AU	opposition	9422 Oct 30 05:39	14° \mathbb{B} 03'49 -0°49'03
morning rise	9416 Nov 24 16:38	28° \mathbb{M} 58'08		min. Earth dist.	9422 Oct 31 18:37	13° \mathbb{B} 51'54 4.19885 AU
	9416 Nov 29 08:01	0° \mathbb{J}		direct	9422 Dec 30 08:38	9° \mathbb{B} 05'31
retrograde	9417 Mar 29 07:44	17° \mathbb{J} 02'53			9423 Mar 04 11:48	15° \mathbb{B}
min. Earth dist.	9417 May 27 11:36	12° \mathbb{J} 10'01	4.31701 AU	evening set	9423 May 05 02:04	27° \mathbb{B} 50'18
opposition	9417 May 28 12:43	12° \mathbb{J} 01'40	1°04'50		9423 May 14 07:47	0° \mathbb{I}
direct	9417 Jul 28 00:45	7° \mathbb{J} 01'02		max. Earth dist.	9423 May 16 01:08	0° \mathbb{I} 24'17 6.11388 AU
evening set	9417 Dec 01 02:37	24° \mathbb{J} 51'11				
				conjunction	9423 May 17 22:00	0° \mathbb{I} 50'38 -0°40'51
conjunction	9417 Dec 14 11:15	27° \mathbb{J} 45'39	0°46'05	minimum elong	9423 May 17 21:59	0° \mathbb{I} 50'38 0°41'07
minimum elong	9417 Dec 14 11:15	27° \mathbb{J} 45'39	0°46'24	morning rise	9423 May 30 18:33	3° \mathbb{I} 51'34
max. Earth dist.	9417 Dec 15 10:29	27° \mathbb{J} 58'19	6.38859 AU	retrograde	9423 Oct 05 23:59	23° \mathbb{I} 15'59
	9417 Dec 24 18:10	0° \mathbb{Z}		opposition	9423 Dec 05 03:14	18° \mathbb{I} 20'11 -1°07'37
morning rise	9417 Dec 27 18:35	0° \mathbb{Z} 39'12		min. Earth dist.	9423 Dec 06 01:24	18° \mathbb{I} 12'55 4.03394 AU
retrograde	9418 Apr 28 18:34	17° \mathbb{Z} 47'08		direct	9424 Feb 02 20:46	13° \mathbb{I} 24'01
opposition	9418 Jun 28 08:35	12° \mathbb{Z} 49'16	1°04'49		9424 May 26 13:32	0° \mathbb{E}
min. Earth dist.	9418 Jun 28 02:31	12° \mathbb{Z} 51'15	4.44442 AU	evening set	9424 Jun 08 02:36	2° \mathbb{E} 59'06
direct	9418 Aug 29 02:17	7° \mathbb{Z} 47'50		max. Earth dist.	9424 Jun 20 11:53	5° \mathbb{E} 58'39 5.96880 AU
evening set	9419 Jan 01 16:10	25° \mathbb{Z} 07'11				
				conjunction	9424 Jun 21 03:32	6° \mathbb{E} 08'08 -0°45'10
conjunction	9419 Jan 14 19:47	27° \mathbb{Z} 55'59	0°40'02	minimum elong	9424 Jun 21 03:33	6° \mathbb{E} 08'08 0°45'29
minimum elong	9419 Jan 14 19:48	27° \mathbb{Z} 55'59	0°40'20	morning rise	9424 Jul 04 06:02	9° \mathbb{E} 18'17
max. Earth dist.	9419 Jan 14 14:37	27° \mathbb{Z} 53'13	6.48207 AU	retrograde	9424 Nov 12 12:07	29° \mathbb{E} 48'31
	9419 Jan 24 11:20	0° \mathbb{A}		opposition	9425 Jan 11 02:11	24° \mathbb{E} 49'43 -1°01'27
morning rise	9419 Jan 27 21:16	0° \mathbb{A} 43'42		min. Earth dist.	9425 Jan 11 00:56	24° \mathbb{E} 50'08 3.92402 AU
	9419 Apr 18 12:03	15° \mathbb{A}		direct	9425 Mar 10 13:24	19° \mathbb{E} 55'03
retrograde	9419 May 28 09:42	17° \mathbb{A} 22'03			9425 Jun 01 19:20	0° \mathbb{O}
	9419 Jul 07 10:53	15° \mathbb{R} \mathbb{A}		evening set	9425 Jul 15 06:30	10° \mathbb{O} 00'36
opposition	9419 Jul 28 07:43	12° \mathbb{A} 27'04	0°47'45			
min. Earth dist.	9419 Jul 28 20:13	12° \mathbb{A} 23'02	4.49926 AU	conjunction	9425 Jul 28 14:27	13° \mathbb{O} 16'02 -0°31'58
direct	9419 Sep 28 18:51	7° \mathbb{A} 25'30		minimum elong	9425 Jul 28 14:28	13° \mathbb{O} 16'02 0°32'14
	9419 Dec 14 15:02	15° \mathbb{A}		max. Earth dist.	9425 Jul 29 10:56	13° \mathbb{O} 28'34 5.90521 AU
evening set	9420 Feb 01 02:08	24° \mathbb{A} 35'06			9425 Aug 04 16:31	15° \mathbb{O}
max. Earth dist.	9420 Feb 12 17:54	27° \mathbb{A} 04'50	6.49435 AU	morning rise	9425 Aug 11 01:00	16° \mathbb{O} 32'50
					9425 Oct 10 20:17	0° \mathbb{M}
conjunction	9420 Feb 14 01:14	27° \mathbb{A} 21'40	0°23'33	retrograde	9425 Dec 21 04:56	7° \mathbb{M} 25'45
minimum elong	9420 Feb 14 01:15	27° \mathbb{A} 21'41	0°23'44	opposition	9426 Feb 18 14:10	2° \mathbb{M} 23'36 -0°29'42
morning rise	9420 Feb 26 22:09	0° \mathbb{X} 07'17		min. Earth dist.	9426 Feb 17 12:34	2° \mathbb{M} 32'16 3.91528 AU
	9420 Feb 26 08:29	0° \mathbb{X}			9426 Mar 09 02:08	30° \mathbb{R} \mathbb{O}
retrograde	9420 Jun 26 10:58	16° \mathbb{X} 46'22		direct	9426 Apr 17 11:11	27° \mathbb{O} 28'30
opposition	9420 Aug 26 11:25	11° \mathbb{X} 53'08	0°18'34		9426 May 26 13:57	0° \mathbb{M}
min. Earth dist.	9420 Aug 27 17:08	11° \mathbb{X} 43'39	4.46868 AU	evening set	9426 Aug 22 10:22	17° \mathbb{M} 28'30

conjunction	9426 Sep 05 00:17	20° \mathbb{M} 44'32	-0°05'45	minimum elong	9432 Feb 18 03:13	1° \mathbb{X} 29'42	0°20'52
minimum elong	9426 Sep 05 00:18	20° \mathbb{M} 44'32	0°05'50	morning rise	9432 Mar 01 23:37	4° \mathbb{X} 15'11	
behind sun begin	9426 Sep 04 16:18	20° \mathbb{M} 39'44		retrograde	9432 Jun 30 13:49	20° \mathbb{X} 55'52	
behind sun end	9426 Sep 05 08:17	20° \mathbb{M} 49'20		opposition	9432 Aug 30 15:12	16° \mathbb{X} 02'42	0°13'59
max. Earth dist.	9426 Sep 07 02:33	21° \mathbb{M} 14'48	5.95188 AU	min. Earth dist.	9432 Aug 31 22:24	15° \mathbb{X} 52'44	4.46039 AU
morning rise	9426 Sep 18 16:23	24° \mathbb{M} 01'28		direct	9432 Nov 01 06:46	11° \mathbb{X} 01'36	
	9426 Oct 14 08:44	0° \mathbb{L}		desc. node	9433 Feb 04 16:38	22° \mathbb{X} 12'07	
asc. node	9426 Nov 23 11:10	8° \mathbb{L} 06'29		evening set	9433 Mar 06 10:34	28° \mathbb{X} 26'39	
retrograde	9427 Jan 27 08:11	14° \mathbb{L} 20'12			9433 Mar 13 13:30	0° \mathbb{Y}	
min. Earth dist.	9427 Mar 26 05:57	9° \mathbb{L} 28'45	4.01183 AU	max. Earth dist.	9433 Mar 17 02:42	0° \mathbb{Y} 46'45	6.40817 AU
opposition	9427 Mar 27 19:12	9° \mathbb{L} 16'04	0°13'24				
direct	9427 May 25 02:41	4° \mathbb{L} 18'58		conjunction	9433 Mar 19 06:09	1° \mathbb{Y} 15'01	-0°02'39
evening set	9427 Sep 28 21:35	23° \mathbb{L} 40'33		minimum elong	9433 Mar 19 06:08	1° \mathbb{Y} 15'01	0°02'38
				behind sun begin	9433 Mar 18 22:11	1° \mathbb{Y} 10'40	
conjunction	9427 Oct 12 13:13	26° \mathbb{L} 50'52	0°22'04	behind sun end	9433 Mar 19 14:06	1° \mathbb{Y} 19'22	
minimum elong	9427 Oct 12 13:12	26° \mathbb{L} 50'51	0°22'11	morning rise	9433 Mar 31 24:00	4° \mathbb{Y} 02'49	
max. Earth dist.	9427 Oct 15 01:51	27° \mathbb{L} 26'08	6.08829 AU	retrograde	9433 Aug 01 06:57	21° \mathbb{Y} 19'31	
morning rise	9427 Oct 26 05:34	0° \mathbb{M} 01'16		opposition	9433 Oct 01 04:52	16° \mathbb{Y} 26'35	-0°21'19
	9427 Oct 26 03:23	0° \mathbb{M}		min. Earth dist.	9433 Oct 02 20:53	16° \mathbb{Y} 13'47	4.33974 AU
	9428 Jan 09 06:12	15° \mathbb{M}		direct	9433 Dec 02 07:22	11° \mathbb{Y} 26'39	
retrograde	9428 Mar 01 18:29	19° \mathbb{M} 09'43		evening set	9434 Apr 06 15:31	29° \mathbb{Y} 28'47	
	9428 Apr 23 21:48	15° \mathbb{R} \mathbb{M}			9434 Apr 08 22:53	0° \mathbb{B}	
min. Earth dist.	9428 Apr 29 02:00	14° \mathbb{M} 18'23	4.17307 AU	max. Earth dist.	9434 Apr 17 01:46	1° \mathbb{B} 50'30	6.25949 AU
opposition	9428 Apr 30 14:04	14° \mathbb{M} 06'14	0°48'52				
direct	9428 Jun 28 22:36	9° \mathbb{M} 06'58		conjunction	9434 Apr 19 10:03	2° \mathbb{B} 22'30	-0°26'00
	9428 Aug 31 20:21	15° \mathbb{M}		minimum elong	9434 Apr 19 10:02	2° \mathbb{B} 22'29	0°26'09
evening set	9428 Nov 02 09:53	27° \mathbb{M} 36'45		morning rise	9434 May 02 04:05	5° \mathbb{B} 16'15	
	9428 Nov 13 02:21	0° \mathbb{X}			9434 Jun 16 22:58	15° \mathbb{B}	
conjunction	9428 Nov 15 22:38	0° \mathbb{X} 38'14	0°40'45	retrograde	9434 Sep 04 09:26	23° \mathbb{B} 36'02	
minimum elong	9428 Nov 15 22:37	0° \mathbb{X} 38'13	0°41'01	opposition	9434 Nov 03 23:00	18° \mathbb{B} 42'02	-0°52'40
max. Earth dist.	9428 Nov 17 20:41	1° \mathbb{X} 03'59	6.25977 AU	min. Earth dist.	9434 Nov 05 10:57	18° \mathbb{B} 30'24	4.17238 AU
morning rise	9428 Nov 29 11:04	3° \mathbb{X} 39'10		direct	9434 Dec 06 07:31	15° \mathbb{R} \mathbb{B}	
retrograde	9429 Apr 02 15:42	21° \mathbb{X} 34'20			9435 Jan 03 21:36	13° \mathbb{B} 43'57	
opposition	9429 Jun 01 22:12	16° \mathbb{X} 33'31	1°05'59		9435 Feb 01 08:47	15° \mathbb{B}	
min. Earth dist.	9429 May 31 23:38	16° \mathbb{X} 41'00	4.33944 AU		9435 Apr 28 09:51	0° \mathbb{I}	
direct	9429 Aug 01 15:38	11° \mathbb{X} 32'40		evening set	9435 May 09 17:08	2° \mathbb{I} 37'20	
evening set	9429 Dec 05 14:26	29° \mathbb{X} 16'42		max. Earth dist.	9435 May 20 20:23	5° \mathbb{I} 14'38	6.08711 AU
	9429 Dec 08 22:37	0° \mathbb{Z}					
conjunction	9429 Dec 18 22:29	2° \mathbb{Z} 10'06	0°45'59	conjunction	9435 May 22 13:47	5° \mathbb{I} 39'05	-0°42'22
minimum elong	9429 Dec 18 22:30	2° \mathbb{Z} 10'06	0°46'17	minimum elong	9435 May 22 13:46	5° \mathbb{I} 39'05	0°42'40
max. Earth dist.	9429 Dec 19 19:39	2° \mathbb{Z} 21'35	6.40828 AU	morning rise	9435 Jun 04 10:52	8° \mathbb{I} 41'29	
morning rise	9430 Jan 01 04:47	5° \mathbb{Z} 02'30		retrograde	9435 Oct 11 06:06	28° \mathbb{I} 18'03	
retrograde	9430 May 02 20:10	22° \mathbb{Z} 03'36		opposition	9435 Dec 10 05:55	23° \mathbb{I} 22'00	-1°08'25
opposition	9430 Jul 02 12:54	17° \mathbb{Z} 06'09	1°03'21	min. Earth dist.	9435 Dec 11 02:04	23° \mathbb{I} 15'22	4.00933 AU
min. Earth dist.	9430 Jul 02 08:22	17° \mathbb{Z} 07'38	4.46008 AU	direct	9436 Feb 07 18:18	18° \mathbb{I} 26'09	
direct	9430 Sep 02 09:21	12° \mathbb{Z} 04'41		evening set	9436 May 08 22:05	0° \mathbb{D}	
evening set	9431 Jan 05 21:54	29° \mathbb{Z} 20'07			9436 Jun 13 03:22	8° \mathbb{D} 09'17	
	9431 Jan 09 00:53	0° \mathbb{A}		conjunction	9436 Jun 26 05:10	11° \mathbb{D} 19'43	-0°44'22
conjunction	9431 Jan 19 00:39	2° \mathbb{A} 08'13	0°38'18	minimum elong	9436 Jun 26 05:11	11° \mathbb{D} 19'43	0°44'41
minimum elong	9431 Jan 19 00:40	2° \mathbb{A} 08'13	0°38'35	max. Earth dist.	9436 Jun 25 16:47	11° \mathbb{D} 12'11	5.94872 AU
max. Earth dist.	9431 Jan 18 14:56	2° \mathbb{A} 03'00	6.49256 AU	morning rise	9436 Jul 09 09:01	14° \mathbb{D} 31'24	
morning rise	9431 Feb 01 01:27	4° \mathbb{A} 55'16			9436 Sep 20 05:50	0° \mathbb{Q}	
	9431 Mar 24 12:07	15° \mathbb{A}		retrograde	9436 Nov 17 21:46	5° \mathbb{Q} 10'20	
retrograde	9431 Jun 01 11:59	21° \mathbb{A} 30'43		opposition	9437 Jan 16 11:16	0° \mathbb{Q} 11'05	-0°58'23
opposition	9431 Aug 01 10:14	16° \mathbb{A} 36'03	0°44'20	min. Earth dist.	9437 Jan 16 05:20	0° \mathbb{Q} 13'04	3.91094 AU
min. Earth dist.	9431 Aug 02 02:17	16° \mathbb{A} 30'53	4.50382 AU		9437 Jan 17 20:22	30° \mathbb{R} \mathbb{D}	
	9431 Aug 14 02:27	15° \mathbb{R} \mathbb{A}		direct	9437 Mar 15 17:43	25° \mathbb{D} 16'31	
direct	9431 Oct 03 00:44	11° \mathbb{A} 34'29			9437 May 09 07:30	0° \mathbb{Q}	
	9431 Nov 21 17:43	15° \mathbb{A}		evening set	9437 Jul 18 20:05	15° \mathbb{Q}	
evening set	9432 Feb 05 04:39	28° \mathbb{A} 43'16			9437 Jul 20 14:32	15° \mathbb{Q} 25'47	
	9432 Feb 11 04:12	0° \mathbb{X}		conjunction	9437 Aug 02 23:38	18° \mathbb{Q} 41'59	-0°28'50
max. Earth dist.	9432 Feb 16 15:52	1° \mathbb{X} 10'42	6.49247 AU	minimum elong	9437 Aug 02 23:39	18° \mathbb{Q} 42'00	0°29'04
				max. Earth dist.	9437 Aug 04 01:59	18° \mathbb{Q} 58'07	5.90060 AU
conjunction	9432 Feb 18 03:12	1° \mathbb{X} 29'41	0°20'42	morning rise	9437 Aug 16 11:13	21° \mathbb{Q} 59'31	
					9437 Sep 19 16:53	0° \mathbb{M}	

retrograde	9437 Dec 26 15:34	12° \mathbb{M} 52'46		evening set	9444 Feb 09 09:26	2° \mathbb{H} 57'39	
opposition	9438 Feb 23 23:25	7° \mathbb{M} 50'10	-0°23'49	max. Earth dist.	9444 Feb 20 16:50	5° \mathbb{H} 23'19	6.48591 AU
min. Earth dist.	9438 Feb 22 19:34	7° \mathbb{M} 59'38	3.91962 AU				
direct	9438 Apr 22 21:19	2° \mathbb{M} 54'52		conjunction	9444 Feb 22 07:24	5° \mathbb{H} 44'05	0°17'39
evening set	9438 Aug 27 19:47	22° \mathbb{M} 52'09		minimum elong	9444 Feb 22 07:24	5° \mathbb{H} 44'05	0°17'48
				morning rise	9444 Mar 06 03:22	8° \mathbb{H} 29'40	
conjunction	9438 Sep 10 10:24	26° \mathbb{M} 07'51	-0°01'36	retrograde	9444 Jul 04 21:45	25° \mathbb{H} 13'28	
minimum elong	9438 Sep 10 10:23	26° \mathbb{M} 07'51	0°01'38	opposition	9444 Sep 03 22:28	20° \mathbb{H} 20'25	0°09'08
behind sun begin	9438 Sep 10 01:59	26° \mathbb{M} 02'50		min. Earth dist.	9444 Sep 05 08:29	20° \mathbb{H} 09'34	4.44750 AU
behind sun end	9438 Sep 10 18:48	26° \mathbb{M} 12'52		direct	9444 Nov 05 14:20	15° \mathbb{H} 19'24	
max. Earth dist.	9438 Sep 12 17:39	26° \mathbb{M} 41'00	5.96464 AU	desc. node	9444 Dec 15 00:19	17° \mathbb{H} 33'23	
morning rise	9438 Sep 24 02:49	29° \mathbb{M} 24'18			9445 Feb 25 16:52	0° \mathbb{Y}	
	9438 Sep 26 14:58	0° \mathbb{L}		evening set	9445 Mar 10 17:06	2° \mathbb{Y} 48'32	
asc. node	9438 Oct 02 03:14	1° \mathbb{L} 18'00		max. Earth dist.	9445 Mar 21 06:01	5° \mathbb{Y} 07'30	6.38973 AU
retrograde	9439 Feb 01 09:56	19° \mathbb{L} 34'57					
min. Earth dist.	9439 Mar 31 07:02	14° \mathbb{L} 43'52	4.03140 AU	conjunction	9445 Mar 23 12:23	5° \mathbb{Y} 37'29	-0°06'05
opposition	9439 Apr 01 21:46	14° \mathbb{L} 30'42	0°19'16	minimum elong	9445 Mar 23 12:22	5° \mathbb{Y} 37'29	0°06'06
direct	9439 May 30 07:08	9° \mathbb{L} 33'17		behind sun begin	9445 Mar 23 04:48	5° \mathbb{Y} 33'19	
evening set	9439 Oct 04 02:10	28° \mathbb{L} 47'43		behind sun end	9445 Mar 23 19:57	5° \mathbb{Y} 41'38	
	9439 Oct 09 07:31	0° \mathbb{M}		morning rise	9445 Apr 05 06:13	8° \mathbb{Y} 25'58	
				retrograde	9445 Aug 05 21:03	25° \mathbb{Y} 50'20	
conjunction	9439 Oct 17 17:25	1° \mathbb{M} 56'48	0°25'26	opposition	9445 Oct 05 18:31	20° \mathbb{Y} 57'16	-0°26'12
minimum elong	9439 Oct 17 17:24	1° \mathbb{M} 56'47	0°25'35	min. Earth dist.	9445 Oct 07 10:15	20° \mathbb{Y} 44'32	4.31685 AU
max. Earth dist.	9439 Oct 20 04:35	2° \mathbb{M} 31'00	6.11237 AU	direct	9445 Dec 06 17:19	15° \mathbb{Y} 57'29	
morning rise	9439 Oct 31 09:33	5° \mathbb{M} 05'54			9446 Mar 23 15:44	0° \mathbb{B}	
	9439 Dec 16 09:48	15° \mathbb{M}		evening set	9446 Apr 11 03:36	4° \mathbb{B} 06'43	
retrograde	9440 Mar 06 09:23	24° \mathbb{M} 02'58		max. Earth dist.	9446 Apr 21 16:07	6° \mathbb{B} 30'30	6.23394 AU
min. Earth dist.	9440 May 03 20:35	19° \mathbb{M} 11'24	4.19898 AU				
opposition	9440 May 05 07:27	18° \mathbb{M} 59'40	0°52'30	conjunction	9446 Apr 23 22:22	7° \mathbb{B} 01'32	-0°28'54
	9440 Jun 09 01:15	15° \mathbb{R} \mathbb{M}		minimum elong	9446 Apr 23 22:21	7° \mathbb{B} 01'31	0°29'04
direct	9440 Jul 03 21:17	14° \mathbb{M} 00'02		morning rise	9446 May 06 16:31	9° \mathbb{B} 56'24	
	9440 Jul 28 23:20	15° \mathbb{M}			9446 May 29 09:42	15° \mathbb{B}	
	9440 Oct 27 11:18	0° \mathbb{X}		retrograde	9446 Sep 09 10:42	28° \mathbb{B} 27'11	
evening set	9440 Nov 07 05:43	2° \mathbb{X} 21'54		opposition	9446 Nov 08 21:37	23° \mathbb{B} 33'00	-0°56'06
				min. Earth dist.	9446 Nov 10 08:50	23° \mathbb{B} 21'35	4.14605 AU
conjunction	9440 Nov 20 17:59	5° \mathbb{X} 22'03	0°42'19	direct	9447 Jan 08 15:48	18° \mathbb{B} 35'14	
minimum elong	9440 Nov 20 17:58	5° \mathbb{X} 22'03	0°42'37		9447 Apr 10 20:31	0° \mathbb{I}	
max. Earth dist.	9440 Nov 22 14:12	5° \mathbb{X} 46'40	6.28524 AU	evening set	9447 May 14 13:30	7° \mathbb{I} 36'55	
morning rise	9440 Dec 04 05:24	8° \mathbb{X} 21'31		max. Earth dist.	9447 May 25 19:12	10° \mathbb{I} 16'36	6.06233 AU
retrograde	9441 Apr 06 23:35	26° \mathbb{X} 06'48					
min. Earth dist.	9441 Jun 05 11:19	21° \mathbb{X} 13'13	4.36229 AU	conjunction	9447 May 27 10:37	10° \mathbb{I} 40'01	-0°43'39
opposition	9441 Jun 06 07:51	21° \mathbb{X} 06'26	1°06'43	minimum elong	9447 May 27 10:36	10° \mathbb{I} 40'00	0°43'58
direct	9441 Aug 06 05:51	16° \mathbb{X} 05'28		morning rise	9447 Jun 09 08:41	13° \mathbb{I} 43'54	
	9441 Nov 22 12:00	0° \mathbb{Z}			9447 Aug 29 10:31	0° \mathbb{E}	
evening set	9441 Dec 10 02:21	3° \mathbb{Z} 43'26		retrograde	9447 Oct 16 14:42	3° \mathbb{E} 31'39	
					9447 Dec 04 16:12	30° \mathbb{R} \mathbb{I}	
conjunction	9441 Dec 23 09:27	6° \mathbb{Z} 35'45	0°45'36	opposition	9447 Dec 15 13:19	28° \mathbb{I} 35'12	-1°08'41
minimum elong	9441 Dec 23 09:27	6° \mathbb{Z} 35'45	0°45'55	min. Earth dist.	9447 Dec 16 05:06	28° \mathbb{I} 29'59	3.98871 AU
max. Earth dist.	9441 Dec 24 00:55	6° \mathbb{Z} 44'07	6.42667 AU	direct	9448 Feb 12 19:40	23° \mathbb{I} 39'39	
morning rise	9442 Jan 05 15:02	9° \mathbb{Z} 27'07			9448 Apr 17 13:40	0° \mathbb{E}	
retrograde	9442 May 07 00:29	26° \mathbb{Z} 22'11		evening set	9448 Jun 18 08:09	13° \mathbb{E} 29'01	
opposition	9442 Jul 06 17:59	21° \mathbb{Z} 25'09	1°01'30				
min. Earth dist.	9442 Jul 06 17:10	21° \mathbb{Z} 25'25	4.47302 AU	conjunction	9448 Jul 01 11:02	16° \mathbb{E} 40'36	-0°43'11
direct	9442 Sep 06 18:46	16° \mathbb{Z} 23'34		minimum elong	9448 Jul 01 11:02	16° \mathbb{E} 40'37	0°43'30
	9442 Dec 23 22:26	0° \mathbb{A}		max. Earth dist.	9448 Jul 01 05:19	16° \mathbb{E} 37'07	5.93461 AU
evening set	9443 Jan 10 04:25	3° \mathbb{A} 36'08		morning rise	9448 Jul 14 15:53	19° \mathbb{E} 53'27	
					9448 Aug 27 17:48	0° \mathbb{Q}	
conjunction	9443 Jan 23 06:39	6° \mathbb{A} 23'44	0°36'18	retrograde	9448 Nov 23 11:26	10° \mathbb{Q} 38'13	
minimum elong	9443 Jan 23 06:40	6° \mathbb{A} 23'45	0°36'35	opposition	9449 Jan 21 23:02	5° \mathbb{Q} 38'28	-0°54'42
max. Earth dist.	9443 Jan 22 17:55	6° \mathbb{A} 16'56	6.49915 AU	min. Earth dist.	9449 Jan 21 13:59	5° \mathbb{Q} 41'30	3.90522 AU
morning rise	9443 Feb 05 06:35	9° \mathbb{A} 10'15		direct	9449 Mar 21 03:49	0° \mathbb{Q} 43'58	
	9443 Mar 05 14:27	15° \mathbb{A}			9449 Jul 01 04:51	15° \mathbb{Q}	
retrograde	9443 Jun 05 13:51	25° \mathbb{A} 44'10		evening set	9449 Jul 26 00:22	20° \mathbb{Q} 53'43	
opposition	9443 Aug 05 14:14	20° \mathbb{A} 49'45	0°40'35				
min. Earth dist.	9443 Aug 06 08:04	20° \mathbb{A} 44'02	4.50387 AU	conjunction	9449 Aug 08 10:29	24° \mathbb{Q} 10'14	-0°25'26
direct	9443 Oct 07 05:10	15° \mathbb{A} 48'12		minimum elong	9449 Aug 08 10:30	24° \mathbb{Q} 10'15	0°25'38
	9444 Jan 26 08:10	0° \mathbb{H}		max. Earth dist.	9449 Aug 09 19:11	24° \mathbb{Q} 30'13	5.90398 AU

morning rise	9449 Aug 21 22:58	27°Ω28'00		opposition	9455 Aug 09 17:57	25°≈01'42	0°36'43
	9449 Sep 01 11:46	0°Π		min. Earth dist.	9455 Aug 10 15:14	24°≈54'52	4.49908 AU
retrograde	9449 Dec 31 23:48	18°Π17'39		direct	9455 Oct 11 10:24	20°≈00'11	
min. Earth dist.	9450 Feb 28 00:53	13°Π25'10	3.93189 AU		9456 Jan 09 09:06	0°✕	
opposition	9450 Mar 01 07:44	13°Π14'41	-0°17'46	evening set	9456 Feb 13 13:40	7°✕11'51	
direct	9450 Apr 28 05:26	8°Π19'10		max. Earth dist.	9456 Feb 24 18:09	9°✕36'20	6.47466 AU
asc. node	9450 Aug 11 03:48	23°Π02'44					
evening set	9450 Sep 02 04:11	28°Π10'55		conjunction	9456 Feb 26 11:21	9°✕58'35	0°14'33
	9450 Sep 09 19:19	0°Ω		minimum elong	9456 Feb 26 11:21	9°✕58'35	0°14'41
				behind sun begin	9456 Feb 26 08:00	9°✕56'47	
conjunction	9450 Sep 15 18:57	1°Ω25'47	0°02'36	behind sun end	9456 Feb 26 14:42	10°✕00'23	
minimum elong	9450 Sep 15 18:57	1°Ω25'47	0°02'35	morning rise	9456 Mar 10 06:53	12°✕44'27	
behind sun begin	9450 Sep 15 10:35	1°Ω20'48		retrograde	9456 Jul 09 05:02	29°✕33'02	
behind sun end	9450 Sep 16 03:20	1°Ω30'46		opposition	9456 Sep 08 06:17	24°✕40'05	0°04'16
max. Earth dist.	9450 Sep 18 03:18	1°Ω59'25	5.98422 AU	min. Earth dist.	9456 Sep 09 16:49	24°✕29'04	4.43061 AU
morning rise	9450 Sep 29 11:45	4°Ω41'23		desc. node	9456 Oct 25 10:03	20°✕00'45	
retrograde	9451 Feb 06 06:58	24°Ω41'33		direct	9456 Nov 09 19:23	19°✕39'15	
min. Earth dist.	9451 Apr 05 06:06	19°Ω50'34	4.05590 AU		9457 Feb 08 14:09	0°Υ	
opposition	9451 Apr 06 21:19	19°Ω37'14	0°24'49	evening set	9457 Mar 15 00:43	7°Υ13'50	
direct	9451 Jun 04 10:26	14°Ω39'28		max. Earth dist.	9457 Mar 25 13:20	9°Υ33'19	6.36846 AU
	9451 Sep 22 11:56	0°Π					
evening set	9451 Oct 09 03:06	3°Π45'25		conjunction	9457 Mar 27 19:48	10°Υ03'31	-0°09'27
				minimum elong	9457 Mar 27 19:48	10°Υ03'31	0°09'30
conjunction	9451 Oct 22 18:12	6°Π53'09	0°28'31	behind sun begin	9457 Mar 27 13:09	9°Υ59'51	
minimum elong	9451 Oct 22 18:11	6°Π53'08	0°28'41	behind sun end	9457 Mar 28 02:27	10°Υ07'12	
max. Earth dist.	9451 Oct 25 04:54	7°Π26'53	6.13953 AU	morning rise	9457 Apr 09 13:32	12°Υ52'49	
morning rise	9451 Nov 05 09:39	10°Π00'45			9457 Jul 24 22:16	0°Ϣ	
	9451 Nov 27 19:01	15°Π		retrograde	9457 Aug 10 14:50	0°Ϣ25'54	
retrograde	9452 Mar 10 22:40	28°Π46'05			9457 Aug 27 05:48	30°ϞΥ	
opposition	9452 May 09 21:24	23°Π43'09	0°55'38	opposition	9457 Oct 10 10:04	25°Υ32'49	-0°30'58
min. Earth dist.	9452 May 08 12:33	23°Π54'11	4.22602 AU	min. Earth dist.	9457 Oct 12 02:35	25°Υ19'49	4.29250 AU
direct	9452 Jul 08 16:28	18°Π43'19		direct	9457 Dec 11 06:10	20°Υ33'19	
	9452 Oct 10 04:51	0°ϣ			9458 Mar 05 15:10	0°Ϣ	
evening set	9452 Nov 11 21:57	6°ϣ57'22		evening set	9458 Apr 15 17:19	8°Ϣ50'00	
				max. Earth dist.	9458 Apr 26 06:25	11°Ϣ15'00	6.20849 AU
conjunction	9452 Nov 25 09:25	9°ϣ56'11	0°43'33				
minimum elong	9452 Nov 25 09:25	9°ϣ56'11	0°43'51	conjunction	9458 Apr 28 12:13	11°Ϣ45'56	-0°31'37
max. Earth dist.	9452 Nov 27 01:11	10°ϣ18'12	6.30986 AU	minimum elong	9458 Apr 28 12:12	11°Ϣ45'55	0°31'49
morning rise	9452 Dec 08 20:09	12°ϣ54'18		morning rise	9458 May 11 06:51	14°Ϣ42'02	
	9453 Mar 24 06:43	0°Ϣ			9458 May 12 14:16	15°Ϣ	
retrograde	9453 Apr 11 04:06	0°Ϣ30'36			9458 Jul 28 20:32	0°Π	
	9453 Apr 29 00:03	30°Ϟϣ		retrograde	9458 Sep 14 12:07	3°Π23'47	
opposition	9453 Jun 10 14:16	25°ϣ30'44	1°07'02		9458 Nov 02 02:00	30°ϞϢ	
min. Earth dist.	9453 Jun 09 20:32	25°ϣ36'36	4.38283 AU	opposition	9458 Nov 13 22:07	28°Ϣ29'19	-0°59'10
direct	9453 Aug 10 16:12	20°ϣ29'37		min. Earth dist.	9458 Nov 15 06:07	28°Ϣ18'56	4.12162 AU
	9453 Nov 05 00:49	0°Ϣ		direct	9459 Jan 13 10:23	23°Ϣ31'54	
evening set	9453 Dec 14 11:10	8°Ϣ02'41			9459 Mar 21 03:10	0°Π	
				evening set	9459 May 19 11:09	12°Π40'57	
conjunction	9453 Dec 27 17:42	10°Ϣ54'09	0°44'58	max. Earth dist.	9459 May 30 22:54	15°Π24'57	6.04117 AU
minimum elong	9453 Dec 27 17:43	10°Ϣ54'10	0°45'18				
max. Earth dist.	9453 Dec 28 05:44	11°Ϣ00'39	6.44180 AU	conjunction	9459 Jun 01 08:55	15°Π45'15	-0°44'36
morning rise	9454 Jan 09 22:19	13°Ϣ44'36		minimum elong	9459 Jun 01 08:55	15°Π45'15	0°44'55
	9454 Apr 21 17:11	0°≈		morning rise	9459 Jun 14 07:39	18°Π50'23	
retrograde	9454 May 11 02:09	0°≈35'04			9459 Aug 03 17:47	0°ϣ	
	9454 May 30 09:38	30°ϞϢ		retrograde	9459 Oct 22 00:48	8°ϣ47'39	
opposition	9454 Jul 10 20:58	25°Ϣ38'33	0°59'25	opposition	9459 Dec 20 21:13	3°ϣ50'44	-1°08'21
min. Earth dist.	9454 Jul 10 22:48	25°Ϣ37'57	4.48192 AU	min. Earth dist.	9459 Dec 21 10:18	3°ϣ46'25	3.97292 AU
direct	9454 Sep 11 00:10	20°Ϣ37'00			9460 Jan 23 09:39	30°ϞΠ	
	9454 Dec 06 16:56	0°≈		direct	9460 Feb 18 00:21	28°Π55'24	
evening set	9455 Jan 14 09:09	7°≈48'09			9460 Mar 14 11:16	0°ϣ	
				evening set	9460 Jun 23 12:54	18°ϣ48'53	
conjunction	9455 Jan 27 10:38	10°≈35'25	0°34'11				
minimum elong	9455 Jan 27 10:39	10°≈35'25	0°34'26	conjunction	9460 Jul 06 16:46	22°ϣ01'20	-0°41'38
max. Earth dist.	9455 Jan 26 16:14	10°≈25'34	6.50118 AU	minimum elong	9460 Jul 06 16:47	22°ϣ01'21	0°41'57
morning rise	9455 Feb 09 10:08	13°≈21'41		max. Earth dist.	9460 Jul 06 16:33	22°ϣ01'13	5.92570 AU
	9455 Feb 17 04:16	15°≈		morning rise	9460 Jul 19 22:42	25°ϣ15'05	
retrograde	9455 Jun 09 18:22	29°≈55'48			9460 Aug 08 20:46	0°Ω	

	9460 Nov 03 11:47	15°♏	retrograde	9466 May 15 05:48	4°♊50'00	
retrograde	9460 Nov 28 21:58	16°♏02'57		9466 Jul 14 06:12	30°♊♊	
	9460 Dec 24 05:11	15°♊♊	opposition	9466 Jul 15 01:09	29°♊53'52	0°56'59
opposition	9461 Jan 27 08:42	11°♏02'42 -0°50'34	min. Earth dist.	9466 Jul 15 05:45	29°♊52'22	4.48730 AU
min. Earth dist.	9461 Jan 26 19:37	11°♏07'06 3.90442 AU	direct	9466 Sep 15 06:21	24°♊52'16	
direct	9461 Mar 26 10:50	6°♏08'09		9466 Nov 16 00:06	0°♊	
	9461 Jun 11 15:40	15°♏	evening set	9467 Jan 18 15:14	12°♊02'53	
evening set	9461 Jul 31 08:14	26°♏16'39				
			conjunction	9467 Jan 31 16:16	14°♊49'58	0°31'49
conjunction	9461 Aug 13 19:02	29°♏33'12 -0°21'51	minimum elong	9467 Jan 31 16:17	14°♊49'59	0°32'05
minimum elong	9461 Aug 13 19:03	29°♏33'12 0°22'02	max. Earth dist.	9467 Jan 30 19:40	14°♊38'57	6.50071 AU
max. Earth dist.	9461 Aug 15 06:43	29°♏54'57 5.91103 AU		9467 Feb 01 11:00	15°♊	
	9461 Aug 15 15:00	0°♊	morning rise	9467 Feb 13 15:00	17°♊36'01	
morning rise	9461 Aug 27 08:28	2°♊50'59		9467 Apr 20 21:02	0°♊	
retrograde	9462 Jan 06 03:03	23°♊35'40	retrograde	9467 Jun 13 22:54	4°♊10'53	
min. Earth dist.	9462 Mar 05 03:53	18°♊43'30 3.94589 AU		9467 Aug 08 08:46	30°♊♊	
opposition	9462 Mar 06 12:48	18°♊32'19 -0°11'41	opposition	9467 Aug 13 23:19	29°♊17'06	0°32'33
direct	9462 May 03 11:48	13°♊36'28	min. Earth dist.	9467 Aug 14 22:10	29°♊09'47	4.49304 AU
asc. node	9462 Jun 20 21:44	17°♊21'41	direct	9467 Oct 15 15:20	24°♊15'45	
	9462 Aug 23 23:29	0°♊		9467 Dec 20 07:46	0°♊	
evening set	9462 Sep 07 09:23	3°♊22'22	evening set	9468 Feb 17 19:54	11°♊29'49	
			max. Earth dist.	9468 Feb 28 20:54	13°♊52'53	6.46357 AU
conjunction	9462 Sep 21 00:34	6°♊36'27 0°06'35				
minimum elong	9462 Sep 21 00:33	6°♊36'27 0°06'37	conjunction	9468 Mar 01 16:59	14°♊16'46	0°11'17
behind sun begin	9462 Sep 20 16:44	6°♊31'49	minimum elong	9468 Mar 01 17:00	14°♊16'47	0°11'24
behind sun end	9462 Sep 21 08:23	6°♊41'05	behind sun begin	9468 Mar 01 11:11	14°♊13'39	
max. Earth dist.	9462 Sep 23 11:10	7°♊11'16 6.00378 AU	behind sun end	9468 Mar 01 22:49	14°♊19'55	
morning rise	9462 Oct 04 17:16	9°♊51'04	morning rise	9468 Mar 14 12:18	17°♊02'58	
retrograde	9463 Feb 11 03:40	29°♊41'11		9468 May 22 09:08	0°♊	
min. Earth dist.	9463 Apr 10 03:41	24°♊49'55 4.07873 AU	retrograde	9468 Jul 13 16:40	3°♊56'13	
opposition	9463 Apr 11 17:57	24°♊36'56 0°30'05	desc. node	9468 Sep 04 09:35	0°♊06'17	
direct	9463 Jun 09 11:37	19°♊38'50		9468 Sep 05 05:45	30°♊♊	
	9463 Sep 04 10:35	0°♊	opposition	9468 Sep 12 16:23	29°♊03'24	-0°00'45
evening set	9463 Oct 14 01:53	8°♊37'18	min. Earth dist.	9468 Sep 14 04:40	28°♊51'48	4.41531 AU
			direct	9468 Nov 14 04:40	24°♊02'45	
conjunction	9463 Oct 27 16:34	11°♊43'48 0°31'22		9469 Jan 19 11:37	0°♊	
minimum elong	9463 Oct 27 16:33	11°♊43'47 0°31'34	evening set	9469 Mar 19 09:35	11°♊41'59	
max. Earth dist.	9463 Oct 30 01:22	12°♊16'15 6.16344 AU	max. Earth dist.	9469 Mar 29 21:57	14°♊01'56	6.35028 AU
morning rise	9463 Nov 10 07:36	14°♊50'05				
	9463 Nov 11 01:06	15°♊	conjunction	9469 Apr 01 04:34	14°♊32'19	-0°12'50
	9464 Jan 27 21:24	0°♊	minimum elong	9469 Apr 01 04:33	14°♊32'19	0°12'54
retrograde	9464 Mar 15 08:13	3°♊25'04	behind sun begin	9469 Mar 31 23:35	14°♊29'34	
	9464 May 02 01:08	30°♊♊	behind sun end	9469 Apr 01 09:31	14°♊35'04	
min. Earth dist.	9464 May 13 01:48	28°♊33'03 4.24901 AU	morning rise	9469 Apr 13 22:10	17°♊22'18	
opposition	9464 May 14 09:24	28°♊22'28 0°58'25		9469 Jun 16 20:40	0°♊	
direct	9464 Jul 13 08:01	23°♊22'22	retrograde	9469 Aug 15 07:08	5°♊03'00	
	9464 Sep 20 08:05	0°♊	opposition	9469 Oct 15 02:34	0°♊09'48	-0°35'35
evening set	9464 Nov 16 13:05	11°♊30'10		9469 Oct 16 09:05	30°♊♊	
			min. Earth dist.	9469 Oct 16 17:18	29°♊57'22	4.27289 AU
conjunction	9464 Nov 29 23:58	14°♊27'53 0°44'32	direct	9469 Dec 15 18:06	25°♊10'39	
minimum elong	9464 Nov 29 23:58	14°♊27'52 0°44'51		9470 Feb 11 18:50	0°♊	
max. Earth dist.	9464 Dec 01 11:52	14°♊47'41 6.33022 AU	evening set	9470 Apr 20 07:22	13°♊33'04	
morning rise	9464 Dec 13 09:49	17°♊24'49		9470 Apr 26 14:44	15°♊	
	9465 Feb 16 03:39	0°♊	max. Earth dist.	9470 Apr 30 23:31	16°♊00'27	6.18907 AU
retrograde	9465 Apr 15 10:30	4°♊53'38				
opposition	9465 Jun 14 20:49	29°♊54'17 1°07'00	conjunction	9470 May 03 02:20	16°♊29'49	-0°34'09
min. Earth dist.	9465 Jun 14 06:17	29°♊59'04 4.39912 AU	minimum elong	9470 May 03 02:19	16°♊29'49	0°34'22
	9465 Jun 14 03:25	30°♊♊	morning rise	9470 May 15 21:12	19°♊26'51	
direct	9465 Aug 15 03:10	24°♊53'04		9470 Jul 04 02:20	0°♊	
	9465 Oct 15 01:42	0°♊	retrograde	9470 Sep 19 14:05	8°♊17'20	
evening set	9465 Dec 18 20:19	12°♊22'23	opposition	9470 Nov 18 21:39	3°♊22'38	-1°01'46
			min. Earth dist.	9470 Nov 20 04:16	3°♊12'40	4.10393 AU
conjunction	9466 Jan 01 02:05	15°♊13'10 0°44'06		9470 Dec 17 12:24	30°♊♊	
minimum elong	9466 Jan 01 02:05	15°♊13'10 0°44'26	direct	9471 Jan 18 06:45	28°♊25'33	
max. Earth dist.	9466 Jan 01 09:06	15°♊16'57 6.45280 AU		9471 Feb 18 18:57	0°♊	
morning rise	9466 Jan 14 06:04	18°♊02'55	evening set	9471 May 24 07:00	17°♊39'31	
	9466 Mar 17 22:02	0°♊	max. Earth dist.	9471 Jun 04 22:58	20°♊26'33	6.02688 AU

conjunction	9471 Jun 06 05:21	20°II44'44 -0°45'13	minimum elong	9476 Dec 04 11:35	18°X53'49 0°45'33
minimum elong	9471 Jun 06 05:21	20°II44'43 0°45'32	max. Earth dist.	9476 Dec 05 20:43	19°X12'02 6.34552 AU
morning rise	9471 Jun 19 04:49	23°II50'50	morning rise	9476 Dec 17 20:45	21°X49'51
	9471 Jul 15 17:31	0°E		9477 Jan 26 07:47	0°E
retrograde	9471 Oct 27 05:14	13°E54'44	retrograde	9477 Apr 19 13:17	9°E13'00
opposition	9471 Dec 26 01:24	8°E57'27 -1°07'28	opposition	9477 Jun 19 01:22	4°E14'04 1°06'37
min. Earth dist.	9471 Dec 26 10:39	8°E54'24 3.96370 AU	min. Earth dist.	9477 Jun 18 12:20	4°E18'21 4.41095 AU
direct	9472 Feb 22 24:00	4°E02'23		9477 Jul 27 20:14	30°R
evening set	9472 Jun 28 13:36	23°E57'45	direct	9477 Aug 19 09:46	29°X12'47
				9477 Sep 11 06:48	0°E
conjunction	9472 Jul 11 18:11	27°E10'45 -0°39'49	evening set	9477 Dec 23 03:57	16°E39'42
minimum elong	9472 Jul 11 18:12	27°E10'45 0°40'07			
max. Earth dist.	9472 Jul 11 21:50	27°E12'58 5.92236 AU	conjunction	9478 Jan 05 09:06	19°E29'55 0°43'00
	9472 Jul 23 07:45	0°E	minimum elong	9478 Jan 05 09:06	19°E29'56 0°43'18
morning rise	9472 Jul 25 01:09	0°E25'07	max. Earth dist.	9478 Jan 05 12:47	19°E31'55 6.46054 AU
	9472 Sep 30 04:56	15°E	morning rise	9478 Jan 18 12:19	22°E19'06
retrograde	9472 Dec 04 01:42	21°E14'07		9478 Feb 25 07:05	0°E
opposition	9473 Feb 01 12:43	16°E13'24 -0°46'11	retrograde	9478 May 19 09:13	9°E03'41
min. Earth dist.	9473 Jan 31 20:52	16°E18'45 3.90736 AU	opposition	9478 Jul 19 04:37	4°E07'55 0°54'18
	9473 Feb 10 17:09	15°R	min. Earth dist.	9478 Jul 19 11:49	4°E05'35 4.49055 AU
direct	9473 Mar 31 14:05	11°E18'46		9478 Aug 26 01:09	30°R
	9473 May 18 06:56	15°E	direct	9478 Sep 19 12:11	29°E06'20
	9473 Jul 30 13:11	0°E		9478 Oct 14 04:03	0°E
evening set	9473 Aug 05 10:25	1°E25'05		9479 Jan 16 19:17	15°E
			evening set	9479 Jan 22 20:13	16°E16'39
conjunction	9473 Aug 18 22:07	4°E41'34 -0°18'16			
minimum elong	9473 Aug 18 22:08	4°E41'35 0°18'27	conjunction	9479 Feb 04 20:36	19°E03'33 0°29'20
max. Earth dist.	9473 Aug 20 14:15	5°E05'59 5.92007 AU	minimum elong	9479 Feb 04 20:37	19°E03'34 0°29'34
morning rise	9473 Sep 01 12:03	7°E59'11	max. Earth dist.	9479 Feb 03 19:51	18°E50'17 6.49913 AU
retrograde	9474 Jan 11 02:32	28°E38'29	morning rise	9479 Feb 17 18:56	21°E49'29
min. Earth dist.	9474 Mar 10 02:21	23°E46'16 3.95993 AU		9479 Mar 30 08:45	0°E
opposition	9474 Mar 11 11:33	23°E34'59 -0°05'50	retrograde	9479 Jun 18 04:12	8°E25'18
asc. node	9474 May 03 10:50	18°E41'34	opposition	9479 Aug 18 04:22	3°E31'36 0°28'15
direct	9474 May 08 12:25	18°E38'55	min. Earth dist.	9479 Aug 19 05:09	3°E23'40 4.48669 AU
	9474 Aug 06 14:06	0°E		9479 Sep 17 20:38	30°R
evening set	9474 Sep 12 09:02	8°E19'39	direct	9479 Oct 19 20:31	28°E30'14
				9479 Nov 21 01:08	0°E
conjunction	9474 Sep 26 00:22	11°E33'00 0°10'20	evening set	9480 Feb 22 00:44	15°E46'17
minimum elong	9474 Sep 26 00:21	11°E33'00 0°10'22	max. Earth dist.	9480 Mar 04 00:59	18°E09'16 6.45270 AU
behind sun begin	9474 Sep 25 17:48	11°E29'08			
behind sun end	9474 Sep 26 06:54	11°E36'51	conjunction	9480 Mar 05 21:34	18°E33'30 0°08'01
max. Earth dist.	9474 Sep 28 11:04	12°E07'42 6.02130 AU	minimum elong	9480 Mar 05 21:35	18°E33'30 0°08'05
morning rise	9474 Oct 09 17:16	14°E46'50	behind sun begin	9480 Mar 05 14:29	18°E29'40
	9474 Dec 23 09:13	0°E	behind sun end	9480 Mar 06 04:41	18°E37'20
retrograde	9475 Feb 15 17:22	4°E28'13	morning rise	9480 Mar 18 16:20	21°E19'55
	9475 Apr 11 23:09	30°R		9480 Apr 30 05:26	0°E
min. Earth dist.	9475 Apr 14 18:44	29°E37'10 4.09802 AU	desc. node	9480 Jul 15 20:59	8°E17'07
opposition	9475 Apr 16 09:09	29°E24'08 0°34'53	retrograde	9480 Jul 18 00:59	8°E17'33
direct	9475 Jun 14 04:59	24°E25'46	opposition	9480 Sep 17 01:21	3°E24'41 -0°05'43
	9475 Aug 14 12:34	0°E	min. Earth dist.	9480 Sep 18 13:56	3°E13'00 4.40027 AU
evening set	9475 Oct 18 19:56	13°E18'33		9480 Oct 16 12:14	30°R
	9475 Oct 26 06:40	15°E	direct	9480 Nov 18 11:13	28°E24'10
				9480 Dec 21 10:55	0°E
conjunction	9475 Nov 01 10:19	16°E24'04 0°33'53	evening set	9481 Mar 23 17:18	16°E07'44
minimum elong	9475 Nov 01 10:18	16°E24'03 0°34'06	max. Earth dist.	9481 Apr 03 04:35	18°E27'42 6.33181 AU
max. Earth dist.	9475 Nov 03 16:03	16°E54'39 6.18293 AU			
morning rise	9475 Nov 15 00:52	19°E29'17	conjunction	9481 Apr 05 11:57	18°E58'40 -0°16'07
	9476 Jan 04 04:30	0°E	minimum elong	9481 Apr 05 11:56	18°E58'40 0°16'12
retrograde	9476 Mar 19 17:28	7°E56'05	morning rise	9481 Apr 18 05:37	21°E49'21
opposition	9476 May 18 18:18	2°E53'54 1°00'44		9481 May 26 19:24	0°E
min. Earth dist.	9476 May 17 13:31	3°E03'32 4.26702 AU	retrograde	9481 Aug 20 00:46	9°E37'52
	9476 Jun 10 23:58	30°R	opposition	9481 Oct 19 18:13	4°E44'28 -0°39'59
direct	9476 Jul 17 21:21	27°E53'38	min. Earth dist.	9481 Oct 21 09:18	4°E31'53 4.25181 AU
	9476 Aug 24 02:45	0°E		9481 Dec 07 20:43	30°R
evening set	9476 Nov 21 01:13	15°E56'57	direct	9481 Dec 20 07:06	29°E45'29
				9482 Jan 01 17:01	0°E
conjunction	9476 Dec 04 11:36	18°E53'50 0°45'14		9482 Apr 10 14:16	15°E

evening set	9482 Apr 24 20:15	18°♄14'06		evening set	9487 Oct 23 17:42	18°♍07'36	
max. Earth dist.	9482 May 05 14:16	20°♄43'17	6.16700 AU				
conjunction	9482 May 07 15:34	21°♄11'53	-0°36'26	conjunction	9487 Nov 06 07:46	21°♍11'57	0°36'17
minimum elong	9482 May 07 15:33	21°♄11'53	0°36'42	minimum elong	9487 Nov 06 07:45	21°♍11'56	0°36'31
morning rise	9482 May 20 10:47	24°♄10'00		max. Earth dist.	9487 Nov 08 13:16	21°♍42'14	6.20587 AU
	9482 Jun 15 08:35	0°♂		morning rise	9487 Nov 19 21:36	24°♍15'53	
retrograde	9482 Sep 24 13:47	13°♂10'22			9487 Dec 16 04:19	0°♄	
opposition	9482 Nov 23 20:58	8°♂15'20	-1°03'59	retrograde	9488 Mar 24 02:25	12°♄32'53	
min. Earth dist.	9482 Nov 25 00:55	8°♂06'14	4.08269 AU	min. Earth dist.	9488 May 22 01:23	7°♄40'33	4.28987 AU
direct	9483 Jan 23 00:35	3°♂18'33		opposition	9488 May 23 05:38	7°♄31'08	1°02'45
evening set	9483 May 29 03:17	22°♂38'54		direct	9488 Jul 22 11:58	2°♄30'45	
max. Earth dist.	9483 Jun 09 23:09	25°♂28'58	6.00833 AU	evening set	9488 Nov 25 15:27	20°♄27'45	
conjunction	9483 Jun 11 02:12	25°♂45'13	-0°45'30	conjunction	9488 Dec 09 00:59	23°♄23'27	0°45'42
minimum elong	9483 Jun 11 02:12	25°♂45'13	0°45'50	minimum elong	9488 Dec 09 00:58	23°♄23'27	0°46'02
morning rise	9483 Jun 24 02:36	28°♂52'34		max. Earth dist.	9488 Dec 10 05:48	23°♄39'14	6.36667 AU
	9483 Jun 28 19:53	0°♂		morning rise	9488 Dec 22 09:21	26°♄18'18	
retrograde	9483 Nov 01 12:21	19°♂05'02			9489 Jan 08 16:25	0°♂	
opposition	9483 Dec 31 06:56	14°♂07'17	-1°06'05	retrograde	9489 Apr 23 18:28	13°♂33'50	
min. Earth dist.	9483 Dec 31 13:07	14°♂05'14	3.94972 AU	opposition	9489 Jun 23 07:13	8°♂35'22	1°05'54
direct	9484 Feb 28 02:42	9°♂12'18		min. Earth dist.	9489 Jun 22 21:23	8°♂38'35	4.42897 AU
evening set	9484 Jul 03 16:37	29°♂11'32		direct	9489 Aug 23 20:35	3°♂34'01	
	9484 Jul 07 00:18	0°♄		evening set	9489 Dec 27 11:16	20°♂56'20	
conjunction	9484 Jul 16 22:23	2°♄25'25	-0°37'39	conjunction	9490 Jan 09 15:43	23°♂45'45	0°41'43
minimum elong	9484 Jul 16 22:24	2°♄25'26	0°37'56	minimum elong	9490 Jan 09 15:44	23°♂45'46	0°42'01
max. Earth dist.	9484 Jul 17 08:14	2°♄31'27	5.91454 AU	max. Earth dist.	9490 Jan 09 16:06	23°♂45'58	6.47411 AU
morning rise	9484 Jul 30 06:16	5°♄40'37		morning rise	9490 Jan 22 18:07	26°♂34'07	
	9484 Sep 08 12:50	15°♄			9490 Feb 08 02:28	0°♂	
retrograde	9484 Dec 09 10:18	26°♄32'15		retrograde	9490 May 23 09:48	13°♂14'36	
opposition	9485 Feb 06 19:38	21°♄31'06	-0°41'21	opposition	9490 Jul 23 07:18	8°♂19'08	0°51'24
min. Earth dist.	9485 Feb 06 01:29	21°♄37'14	3.90677 AU	min. Earth dist.	9490 Jul 23 16:20	8°♂16'13	4.49894 AU
direct	9485 Apr 05 19:20	16°♄36'23		direct	9490 Sep 23 16:18	3°♂17'34	
	9485 Jul 13 04:18	0°♄			9490 Dec 31 15:25	15°♂	
evening set	9485 Aug 10 16:38	6°♄41'52		evening set	9491 Jan 26 23:31	20°♂26'04	
conjunction	9485 Aug 24 05:01	9°♄58'24	-0°14'27	conjunction	9491 Feb 08 23:18	23°♂12'37	0°26'46
minimum elong	9485 Aug 24 05:02	9°♄58'24	0°14'34	minimum elong	9491 Feb 08 23:19	23°♂12'38	0°27'00
behind sun begin	9485 Aug 24 01:30	9°♄56'17		max. Earth dist.	9491 Feb 07 20:08	22°♂58'04	6.50171 AU
behind sun end	9485 Aug 24 08:33	10°♄00'32		morning rise	9491 Feb 21 20:52	25°♂58'12	
max. Earth dist.	9485 Aug 26 00:04	10°♄24'31	5.92654 AU		9491 Mar 13 03:33	0°♄	
morning rise	9485 Sep 06 19:51	13°♄16'04		retrograde	9491 Jun 22 06:41	12°♄33'59	
	9485 Nov 27 08:43	0°♄		opposition	9491 Aug 22 07:15	7°♄40'30	0°23'58
retrograde	9486 Jan 16 04:07	3°♄50'32		min. Earth dist.	9491 Aug 23 10:36	7°♄31'46	4.48312 AU
	9486 Mar 07 12:57	30°♄		direct	9491 Oct 24 00:23	2°♄39'14	
asc. node	9486 Mar 14 04:51	29°♄06'17		evening set	9492 Feb 26 03:12	19°♄56'43	
min. Earth dist.	9486 Mar 15 02:28	28°♄58'56	3.97284 AU	max. Earth dist.	9492 Mar 07 22:50	22°♄17'37	6.44294 AU
opposition	9486 Mar 16 14:06	28°♄46'49	0°00'16				
direct	9486 May 13 15:36	23°♄50'28		conjunction	9492 Mar 09 23:27	22°♄44'05	0°04'49
	9486 Jul 16 06:59	0°♄		minimum elong	9492 Mar 09 23:28	22°♄44'06	0°04'53
evening set	9486 Sep 17 13:00	13°♄26'19		behind sun begin	9492 Mar 09 15:42	22°♄39'53	
				behind sun end	9492 Mar 10 07:14	22°♄48'18	
conjunction	9486 Oct 01 04:29	16°♄38'54	0°14'08	morning rise	9492 Mar 22 18:04	25°♄30'48	
minimum elong	9486 Oct 01 04:28	16°♄38'53	0°14'13		9492 Apr 12 21:22	0°♄	
behind sun begin	9486 Oct 01 00:38	16°♄36'38		desc. node	9492 May 27 18:56	8°♄08'11	
behind sun end	9486 Oct 01 08:18	16°♄41'08		retrograde	9492 Jul 22 08:49	12°♄32'59	
max. Earth dist.	9486 Oct 03 15:21	17°♄13'33	6.03937 AU	opposition	9492 Sep 21 08:07	7°♄40'05	-0°10'31
morning rise	9486 Oct 14 21:20	19°♄51'50		min. Earth dist.	9492 Sep 22 22:21	7°♄27'51	4.38465 AU
	9486 Nov 30 03:06	0°♍		direct	9492 Nov 22 16:16	2°♄39'39	
retrograde	9487 Feb 20 12:02	9°♍24'03		evening set	9493 Mar 27 22:20	20°♄28'06	
min. Earth dist.	9487 Apr 19 15:03	4°♍32'43	4.11933 AU	max. Earth dist.	9493 Apr 07 09:31	22°♄48'36	6.31134 AU
opposition	9487 Apr 21 04:19	4°♍20'06	0°39'36				
	9487 May 30 12:22	30°♄		conjunction	9493 Apr 09 17:04	23°♄19'48	-0°19'13
direct	9487 Jun 19 04:38	29°♄21'28		minimum elong	9493 Apr 09 17:03	23°♄19'48	0°19'19
	9487 Jul 08 23:09	0°♍		morning rise	9493 Apr 22 10:38	26°♄11'18	
	9487 Oct 09 17:10	15°♍			9493 May 09 18:02	0°♄	
				retrograde	9493 Aug 24 15:17	14°♄08'44	

opposition	9493 Oct 24 07:57	9°♄15'11	-0°44'03	direct	9499 Jun 24 04:00	4°♄21'12	
min. Earth dist.	9493 Oct 25 22:37	9°♄02'44	4.22770 AU		9499 Sep 21 12:23	15°♄	
direct	9493 Dec 24 16:03	4°♄16'28		evening set	9499 Oct 28 16:35	22°♄59'26	
	9494 Mar 24 15:57	15°♄					
evening set	9494 Apr 29 08:05	22°♄52'47		conjunction	9499 Nov 11 05:58	26°♄02'24	0°38'26
max. Earth dist.	9494 May 10 02:51	25°♄23'19	6.14108 AU	minimum elong	9499 Nov 11 05:57	26°♄02'23	0°38'42
				max. Earth dist.	9499 Nov 13 07:52	26°♄30'29	6.23142 AU
conjunction	9494 May 12 03:36	25°♄51'47	-0°38'29	morning rise	9499 Nov 24 19:15	29°♄04'54	
minimum elong	9494 May 12 03:35	25°♄51'46	0°38'44		9499 Nov 28 22:19	0°♄	
morning rise	9494 May 24 23:29	28°♄51'15		retrograde	9500 Mar 29 12:42	17°♄11'19	
	9494 May 29 22:16	0°♄		opposition	9500 May 28 17:41	12°♄09'52	1°04'21
retrograde	9494 Sep 29 14:55	18°♄03'21		min. Earth dist.	9500 May 27 16:08	12°♄18'22	4.31421 AU
opposition	9494 Nov 28 19:46	13°♄08'00	-1°05'47	direct	9500 Jul 28 05:47	7°♄09'12	
min. Earth dist.	9494 Nov 29 21:57	12°♄59'27	4.05692 AU	evening set	9500 Dec 01 05:46	24°♄59'24	
direct	9495 Jan 27 19:04	8°♄11'26					
evening set	9495 Jun 03 00:00	27°♄40'16		conjunction	9500 Dec 14 14:42	27°♄53'57	0°45'53
	9495 Jun 12 16:21	0°♄		minimum elong	9500 Dec 14 14:42	27°♄53'57	0°46'13
				max. Earth dist.	9500 Dec 15 16:59	28°♄08'17	6.38787 AU
conjunction	9495 Jun 15 24:00	0°♄48'05	-0°45'29		9500 Dec 24 06:14	0°♄	
minimum elong	9495 Jun 15 24:00	0°♄48'05	0°45'50	morning rise	9500 Dec 27 22:02	0°♄47'33	
max. Earth dist.	9495 Jun 15 01:48	0°♄34'41	5.98531 AU	retrograde	9501 Apr 28 21:52	17°♄55'38	
morning rise	9495 Jun 29 01:19	3°♄56'57		opposition	9501 Jun 28 13:19	12°♄57'36	1°04'46
retrograde	9495 Nov 06 22:37	24°♄19'43		min. Earth dist.	9501 Jun 28 05:21	13°♄00'12	4.44561 AU
opposition	9496 Jan 05 13:40	19°♄21'35	-1°04'15	direct	9501 Aug 29 05:42	7°♄56'10	
min. Earth dist.	9496 Jan 05 17:01	19°♄20'28	3.93202 AU	evening set	9502 Jan 01 19:26	25°♄14'31	
direct	9496 Mar 04 04:39	14°♄26'46					
	9496 Jun 20 00:37	0°♄		conjunction	9502 Jan 14 23:02	28°♄03'13	0°40'10
evening set	9496 Jul 08 21:57	4°♄31'28		minimum elong	9502 Jan 14 23:03	28°♄03'13	0°40'28
				max. Earth dist.	9502 Jan 14 18:13	28°♄00'38	6.48500 AU
conjunction	9496 Jul 22 04:43	7°♄46'23	-0°35'11		9502 Jan 24 01:15	0°♄	
minimum elong	9496 Jul 22 04:44	7°♄46'24	0°35'28	morning rise	9502 Jan 28 00:45	0°♄50'52	
max. Earth dist.	9496 Jul 22 18:40	7°♄54'56	5.90391 AU		9502 Apr 17 17:08	15°♄	
morning rise	9496 Aug 04 14:01	11°♄02'42		retrograde	9502 May 28 13:57	17°♄28'15	
	9496 Aug 21 01:39	15°♄			9502 Jul 08 12:48	15°♄	
	9496 Nov 09 20:23	0°♄		opposition	9502 Jul 28 11:27	12°♄33'09	0°48'09
retrograde	9496 Dec 14 19:24	1°♄57'44		min. Earth dist.	9502 Jul 29 00:17	12°♄29'01	4.50349 AU
	9497 Jan 18 18:15	30°♄		direct	9502 Sep 28 23:59	7°♄31'33	
min. Earth dist.	9497 Feb 11 06:18	27°♄03'42	3.90467 AU		9502 Dec 14 05:25	15°♄	
opposition	9497 Feb 12 04:44	26°♄56'07	-0°36'09	evening set	9503 Feb 01 04:23	24°♄39'28	
direct	9497 Apr 11 01:58	22°♄01'15		max. Earth dist.	9503 Feb 12 20:15	27°♄09'04	6.49949 AU
	9497 Jun 22 21:06	0°♄					
evening set	9497 Aug 16 01:57	12°♄06'24		conjunction	9503 Feb 14 03:38	27°♄25'54	0°23'59
				minimum elong	9503 Feb 14 03:39	27°♄25'54	0°24'10
conjunction	9497 Aug 29 15:10	15°♄23'00	-0°10'28		9503 Feb 26 03:24	0°♄	
minimum elong	9497 Aug 29 15:10	15°♄23'00	0°10'34	morning rise	9503 Feb 27 00:44	0°♄11'23	
behind sun begin	9497 Aug 29 08:42	15°♄19'06		retrograde	9503 Jun 27 11:43	16°♄48'48	
behind sun end	9497 Aug 29 21:39	15°♄26'54		opposition	9503 Aug 27 13:04	11°♄55'26	0°19'22
max. Earth dist.	9497 Aug 31 14:24	15°♄51'36	5.93322 AU	min. Earth dist.	9503 Aug 28 18:01	11°♄46'10	4.47437 AU
morning rise	9497 Sep 12 06:38	18°♄40'36		direct	9503 Oct 29 05:16	6°♄54'11	
	9497 Nov 01 20:53	0°♄		evening set	9504 Mar 02 08:42	24°♄14'42	
retrograde	9498 Jan 21 09:01	9°♄09'40		max. Earth dist.	9504 Mar 13 03:08	26°♄35'23	6.42823 AU
asc. node	9498 Jan 22 05:48	9°♄09'35					
min. Earth dist.	9498 Mar 20 06:20	4°♄18'04	3.98721 AU	conjunction	9504 Mar 15 04:45	27°♄02'30	0°01'24
opposition	9498 Mar 21 18:53	4°♄05'38	0°06'24	minimum elong	9504 Mar 15 04:44	27°♄02'30	0°01'27
	9498 Apr 26 13:17	30°♄		behind sun begin	9504 Mar 14 20:45	26°♄58'09	
direct	9498 May 18 23:16	29°♄08'54		behind sun end	9504 Mar 15 12:43	27°♄06'50	
	9498 Jun 10 10:25	0°♄		morning rise	9504 Mar 27 22:55	29°♄49'39	
evening set	9498 Sep 22 19:28	18°♄39'02			9504 Mar 28 17:59	0°♄	
				desc. node	9504 Apr 06 20:14	1°♄57'38	
conjunction	9498 Oct 06 11:08	21°♄50'41	0°17'52	retrograde	9504 Jul 27 20:31	16°♄58'01	
minimum elong	9498 Oct 06 11:07	21°♄50'40	0°17'59	opposition	9504 Sep 26 19:15	12°♄05'08	-0°15'30
max. Earth dist.	9498 Oct 09 00:34	22°♄26'39	6.05994 AU	min. Earth dist.	9504 Sep 28 10:45	11°♄52'31	4.36475 AU
morning rise	9498 Oct 20 03:46	25°♄02'32		direct	9504 Nov 28 01:05	7°♄04'55	
	9498 Nov 10 23:30	0°♄		evening set	9505 Apr 02 08:21	24°♄59'34	
retrograde	9499 Feb 25 06:29	14°♄24'01		max. Earth dist.	9505 Apr 12 17:48	27°♄19'56	6.28762 AU
min. Earth dist.	9499 Apr 24 10:55	9°♄32'54	4.14362 AU				
opposition	9499 Apr 26 00:38	9°♄20'10	0°44'03	conjunction	9505 Apr 15 02:55	27°♄52'11	-0°22'22

minimum elong	9505 Apr 15 02:54	27° Υ 52'11	0°22'31	morning rise	9510 Oct 26 07:13	0° \mathbb{M} 06'05	
	9505 Apr 24 13:18	0° \mathcal{B}			9511 Jan 08 17:04	15° \mathbb{M}	
morning rise	9505 Apr 27 20:47	0° \mathcal{B} 44'44		retrograde	9511 Mar 02 20:57	19° \mathbb{M} 15'44	
	9505 Jul 10 04:17	15° \mathcal{B}			9511 Apr 25 19:08	15° $\mathbb{R}\mathbb{M}$	
retrograde	9505 Aug 30 12:30	18° \mathcal{B} 52'19		min. Earth dist.	9511 Apr 30 05:18	14° \mathbb{M} 24'20	4.17085 AU
	9505 Oct 22 03:33	15° $\mathbb{R}\mathcal{B}$		opposition	9511 May 01 17:38	14° \mathbb{M} 12'05	0°48'01
opposition	9505 Oct 30 03:25	13° \mathcal{B} 58'34	-0°48'06	direct	9511 Jun 30 02:17	9° \mathbb{M} 12'49	
min. Earth dist.	9505 Oct 31 17:08	13° \mathcal{B} 46'23	4.20169 AU		9511 Sep 01 08:30	15° \mathbb{M}	
direct	9505 Dec 30 07:25	9° \mathcal{B} 00'05		evening set	9511 Nov 03 11:43	27° \mathbb{M} 42'43	
	9506 Mar 04 23:41	15° \mathcal{B}			9511 Nov 13 17:31	0° \mathcal{X}	
evening set	9506 May 05 01:19	27° \mathcal{B} 44'40					
	9506 May 14 16:48	0° \mathbb{I}		conjunction	9511 Nov 17 00:39	0° \mathcal{X} 44'18	0°40'16
max. Earth dist.	9506 May 16 00:17	0° \mathbb{I} 18'28	6.11508 AU	minimum elong	9511 Nov 17 00:38	0° \mathcal{X} 44'18	0°40'33
				max. Earth dist.	9511 Nov 19 00:39	1° \mathcal{X} 11'10	6.25797 AU
conjunction	9506 May 17 21:27	0° \mathbb{I} 45'00	-0°40'21	morning rise	9511 Nov 30 12:57	3° \mathcal{X} 45'18	
minimum elong	9506 May 17 21:26	0° \mathbb{I} 44'59	0°40'38	retrograde	9512 Apr 02 19:33	21° \mathcal{X} 41'25	
morning rise	9506 May 30 17:48	3° \mathbb{I} 45'51		min. Earth dist.	9512 Jun 01 02:52	16° \mathcal{X} 48'15	4.33791 AU
retrograde	9506 Oct 05 22:30	23° \mathbb{I} 09'37		opposition	9512 Jun 02 02:14	16° \mathcal{X} 40'30	1°05'30
opposition	9506 Dec 05 00:34	18° \mathbb{I} 14'02	-1°07'10	direct	9512 Aug 01 18:52	11° \mathcal{X} 39'43	
min. Earth dist.	9506 Dec 06 00:22	18° \mathbb{I} 06'15	4.03339 AU	evening set	9512 Dec 05 16:53	29° \mathcal{X} 23'47	
direct	9507 Feb 02 18:40	13° \mathbb{I} 17'51			9512 Dec 08 11:56	0° \mathcal{Z}	
	9507 May 27 21:47	0° \mathcal{E}					
evening set	9507 Jun 09 02:13	2° \mathcal{E} 54'04		conjunction	9512 Dec 19 00:54	2° \mathcal{Z} 17'15	0°45'48
max. Earth dist.	9507 Jun 21 08:19	5° \mathcal{E} 51'53	5.96653 AU	minimum elong	9512 Dec 19 00:54	2° \mathcal{Z} 17'15	0°46'08
				max. Earth dist.	9512 Dec 19 21:12	2° \mathcal{Z} 28'17	6.40687 AU
conjunction	9507 Jun 22 02:55	6° \mathcal{E} 03'09	-0°45'06	morning rise	9513 Jan 01 07:34	5° \mathcal{Z} 09'49	
minimum elong	9507 Jun 22 02:56	6° \mathcal{E} 03'09	0°45'26	retrograde	9513 May 03 01:06	22° \mathcal{Z} 11'42	
morning rise	9507 Jul 05 05:29	9° \mathcal{E} 13'25		opposition	9513 Jul 02 17:10	17° \mathcal{Z} 14'07	1°03'20
retrograde	9507 Nov 13 09:39	29° \mathcal{E} 44'31		min. Earth dist.	9513 Jul 02 13:06	17° \mathcal{Z} 15'27	4.45885 AU
opposition	9508 Jan 12 00:32	24° \mathcal{E} 45'55	-1°01'44	direct	9513 Sep 02 13:55	12° \mathcal{Z} 12'36	
min. Earth dist.	9508 Jan 11 22:59	24° \mathcal{E} 46'26	3.92047 AU	evening set	9514 Jan 06 00:58	29° \mathcal{Z} 28'12	
direct	9508 Mar 10 11:01	19° \mathcal{E} 51'17			9514 Jan 08 12:47	0° \approx	
	9508 Jun 02 00:27	0° \mathcal{Q}					
evening set	9508 Jul 15 06:51	9° \mathcal{Q} 58'52		conjunction	9514 Jan 19 04:05	2° \approx 16'25	0°38'26
				minimum elong	9514 Jan 19 04:06	2° \approx 16'26	0°38'45
conjunction	9508 Jul 28 14:42	13° \mathcal{Q} 14'27	-0°32'21	max. Earth dist.	9514 Jan 18 20:04	2° \approx 12'08	6.49161 AU
minimum elong	9508 Jul 28 14:44	13° \mathcal{Q} 14'27	0°32'37	morning rise	9514 Feb 01 04:57	5° \approx 03'34	
max. Earth dist.	9508 Jul 29 11:14	13° \mathcal{Q} 27'01	5.90106 AU		9514 Mar 23 19:56	15° \approx	
	9508 Aug 04 19:05	15° \mathcal{Q}		retrograde	9514 Jun 01 14:50	21° \approx 39'28	
morning rise	9508 Aug 11 00:57	16° \mathcal{Q} 31'22		opposition	9514 Aug 01 14:19	16° \approx 44'42	0°44'45
	9508 Oct 10 21:17	0° \mathbb{P}		min. Earth dist.	9514 Aug 02 05:05	16° \approx 39'57	4.50332 AU
retrograde	9508 Dec 21 06:50	7° \mathbb{P} 26'09			9514 Aug 15 11:18	15° $\mathbb{R}\approx$	
opposition	9509 Feb 18 15:00	2° \mathbb{P} 24'05	-0°30'32	direct	9514 Oct 03 03:21	11° \approx 43'08	
min. Earth dist.	9509 Feb 17 14:15	2° \mathbb{P} 32'28	3.91098 AU		9514 Nov 20 18:14	15° \approx	
	9509 Mar 09 04:38	30° $\mathbb{R}\mathcal{Q}$		evening set	9515 Feb 05 08:31	28° \approx 52'01	
direct	9509 Apr 17 13:12	27° \mathcal{Q} 29'05			9515 Feb 10 15:46	0° \mathcal{H}	
	9509 May 26 12:21	0° \mathbb{P}		max. Earth dist.	9515 Feb 16 20:16	1° \mathcal{H} 19'44	6.49255 AU
evening set	9509 Aug 22 11:30	17° \mathbb{P} 30'35					
				conjunction	9515 Feb 18 07:11	1° \mathcal{H} 38'30	0°21'07
conjunction	9509 Sep 05 01:23	20° \mathbb{P} 46'46	-0°06'24	minimum elong	9515 Feb 18 07:12	1° \mathcal{H} 38'30	0°21'18
minimum elong	9509 Sep 05 01:23	20° \mathbb{P} 46'46	0°06'29	morning rise	9515 Mar 03 03:50	4° \mathcal{H} 24'05	
behind sun begin	9509 Sep 04 17:31	20° \mathbb{P} 42'02		retrograde	9515 Jul 01 18:38	21° \mathcal{H} 04'40	
behind sun end	9509 Sep 05 09:15	20° \mathbb{P} 51'29		opposition	9515 Aug 31 19:07	16° \mathcal{H} 11'30	0°14'43
max. Earth dist.	9509 Sep 07 05:33	21° \mathbb{P} 18'12	5.94795 AU	min. Earth dist.	9515 Sep 02 02:59	16° \mathcal{H} 01'19	4.46108 AU
morning rise	9509 Sep 18 17:16	24° \mathbb{P} 03'49		direct	9515 Nov 02 11:46	11° \mathcal{H} 10'21	
	9509 Oct 14 04:48	0° \mathcal{L}		desc. node	9516 Feb 15 04:41	24° \mathcal{H} 14'28	
asc. node	9509 Dec 02 22:09	9° \mathcal{L} 42'56		evening set	9516 Mar 06 14:50	28° \mathcal{H} 35'17	
retrograde	9510 Jan 27 10:48	14° \mathcal{L} 24'10			9516 Mar 13 02:00	0° \mathcal{Y}	
min. Earth dist.	9510 Mar 26 07:36	9° \mathcal{L} 33'00	4.00862 AU	max. Earth dist.	9516 Mar 17 06:00	0° \mathcal{Y} 54'50	6.40950 AU
opposition	9510 Mar 27 21:47	9° \mathcal{L} 20'01	0°12'22				
direct	9510 May 25 03:51	4° \mathcal{L} 23'01		conjunction	9516 Mar 19 10:34	1° \mathcal{Y} 23'41	-0°02'04
evening set	9510 Sep 28 23:25	23° \mathcal{L} 45'13		minimum elong	9516 Mar 19 10:34	1° \mathcal{Y} 23'41	0°02'02
				behind sun begin	9516 Mar 19 02:35	1° \mathcal{Y} 19'19	
conjunction	9510 Oct 12 14:45	26° \mathcal{L} 55'34	0°21'23	behind sun end	9516 Mar 19 18:33	1° \mathcal{Y} 28'02	
minimum elong	9510 Oct 12 14:44	26° \mathcal{L} 55'34	0°21'32	morning rise	9516 Apr 01 04:43	4° \mathcal{Y} 11'31	
max. Earth dist.	9510 Oct 15 02:40	27° \mathcal{L} 30'27	6.08561 AU	retrograde	9516 Aug 01 09:49	21° \mathcal{Y} 27'28	
	9510 Oct 25 20:40	0° \mathbb{M}		opposition	9516 Oct 01 07:57	16° \mathcal{Y} 34'30	-0°20'24

min. Earth dist.	9516 Oct 02 23:13	16° Υ 21'55	4.34181 AU	evening set	9522 Oct 04 00:36	28° Ω 43'32	
direct	9516 Dec 02 10:17	11° Υ 34'27			9522 Oct 09 13:09	0° \mathbb{M}	
evening set	9517 Apr 06 19:44	29° Υ 36'11					
	9517 Apr 08 14:01	0° \mathcal{B}		conjunction	9522 Oct 17 15:56	1° \mathbb{M} 52'44	0°24'43
max. Earth dist.	9517 Apr 17 07:33	1° \mathcal{B} 58'39	6.26230 AU	minimum elong	9522 Oct 17 15:55	1° \mathbb{M} 52'44	0°24'52
				max. Earth dist.	9522 Oct 20 03:49	2° \mathbb{M} 27'24	6.10964 AU
conjunction	9517 Apr 19 14:28	2° \mathcal{B} 29'51	-0°25'24	morning rise	9522 Oct 31 07:51	5° \mathbb{M} 01'55	
minimum elong	9517 Apr 19 14:27	2° \mathcal{B} 29'51	0°25'33		9522 Dec 16 15:23	15° \mathbb{M}	
morning rise	9517 May 02 08:23	5° \mathcal{B} 23'28		retrograde	9523 Mar 07 11:20	24° \mathbb{M} 00'43	
	9517 Jun 16 13:06	15° \mathcal{B}		min. Earth dist.	9523 May 04 21:44	19° \mathbb{M} 09'03	4.19520 AU
retrograde	9517 Sep 04 12:13	23° \mathcal{B} 41'41		opposition	9523 May 06 08:20	18° \mathbb{M} 57'25	0°51'37
opposition	9517 Nov 04 01:07	18° \mathcal{B} 47'47	-0°51'51		9523 Jun 09 14:48	15° $\mathcal{R}\mathbb{M}$	
min. Earth dist.	9517 Nov 05 13:55	18° \mathcal{B} 35'53	4.17590 AU	direct	9523 Jul 04 21:41	13° \mathbb{M} 57'54	
	9517 Dec 07 13:13	15° $\mathcal{R}\mathcal{B}$			9523 Jul 30 09:44	15° \mathbb{M}	
direct	9518 Jan 04 00:55	13° \mathcal{B} 49'39			9523 Oct 28 13:01	0° \mathcal{Z}	
	9518 Jan 31 09:26	15° \mathcal{B}		evening set	9523 Nov 08 05:08	2° \mathcal{Z} 20'47	
	9518 Apr 28 04:45	0° \mathbb{I}					
evening set	9518 May 09 20:38	2° \mathbb{I} 42'04		conjunction	9523 Nov 21 17:23	5° \mathcal{Z} 21'09	0°41'50
max. Earth dist.	9518 May 20 21:59	5° \mathbb{I} 18'10	6.09106 AU	minimum elong	9523 Nov 21 17:22	5° \mathcal{Z} 21'08	0°42'09
				max. Earth dist.	9523 Nov 23 13:13	5° \mathcal{Z} 45'33	6.28055 AU
conjunction	9518 May 22 17:06	5° \mathbb{I} 43'37	-0°41'57	morning rise	9523 Dec 05 05:06	8° \mathcal{Z} 20'55	
minimum elong	9518 May 22 17:05	5° \mathbb{I} 43'36	0°42'15	retrograde	9524 Apr 07 01:41	26° \mathcal{Z} 08'26	
morning rise	9518 Jun 04 14:17	8° \mathbb{I} 45'50		opposition	9524 Jun 06 10:06	21° \mathcal{Z} 07'58	1°06'18
retrograde	9518 Oct 11 05:29	28° \mathbb{I} 20'11		min. Earth dist.	9524 Jun 05 13:15	21° \mathcal{Z} 14'52	4.35716 AU
opposition	9518 Dec 10 06:33	23° \mathbb{I} 24'11	-1°08'01	direct	9524 Aug 06 06:38	16° \mathcal{Z} 07'01	
min. Earth dist.	9518 Dec 11 02:07	23° \mathbb{I} 17'45	4.01348 AU		9524 Nov 22 07:50	0° \mathcal{Z}	
direct	9519 Feb 07 19:12	18° \mathbb{I} 28'15		evening set	9524 Dec 10 03:25	3° \mathcal{Z} 46'27	
	9519 May 09 21:34	0° \mathcal{E}					
evening set	9519 Jun 14 05:18	8° \mathcal{E} 10'10		conjunction	9524 Dec 23 10:54	6° \mathcal{Z} 39'05	0°45'28
				minimum elong	9524 Dec 23 10:54	6° \mathcal{Z} 39'06	0°45'48
conjunction	9519 Jun 27 07:00	11° \mathcal{E} 20'19	-0°44'19	max. Earth dist.	9524 Dec 24 04:07	6° \mathcal{Z} 48'25	6.42153 AU
minimum elong	9519 Jun 27 07:01	11° \mathcal{E} 20'19	0°44'39	morning rise	9525 Jan 05 16:35	9° \mathcal{Z} 30'44	
max. Earth dist.	9519 Jun 26 19:03	11° \mathcal{E} 13'03	5.95277 AU	retrograde	9525 May 07 04:08	26° \mathcal{Z} 27'52	
morning rise	9519 Jul 10 10:26	14° \mathcal{E} 31'38		opposition	9525 Jul 06 21:27	21° \mathcal{Z} 30'48	1°01'35
	9519 Sep 21 09:03	0° \mathcal{O}		min. Earth dist.	9525 Jul 06 19:49	21° \mathcal{Z} 31'20	4.46814 AU
retrograde	9519 Nov 18 21:43	5° \mathcal{O} 08'27		direct	9525 Sep 06 20:49	16° \mathcal{Z} 29'19	
opposition	9520 Jan 17 10:50	0° \mathcal{O} 09'18	-0°58'39		9525 Dec 23 11:46	0° \mathcal{A}	
min. Earth dist.	9520 Jan 17 06:24	0° \mathcal{O} 10'48	3.91437 AU	evening set	9526 Jan 10 07:36	3° \mathcal{A} 43'21	
	9520 Jan 18 14:39	30° $\mathcal{R}\mathcal{E}$					
direct	9520 Mar 15 19:27	25° \mathcal{E} 14'44		conjunction	9526 Jan 23 09:55	6° \mathcal{A} 31'12	0°36'30
	9520 May 09 13:19	0° \mathcal{O}		minimum elong	9526 Jan 23 09:56	6° \mathcal{A} 31'12	0°36'46
	9520 Jul 19 01:03	15° \mathcal{O}		max. Earth dist.	9526 Jan 22 20:27	6° \mathcal{A} 23'59	6.49487 AU
evening set	9520 Jul 20 14:32	15° \mathcal{O} 22'47		morning rise	9526 Feb 05 10:18	9° \mathcal{A} 18'01	
					9526 Mar 05 01:46	15° \mathcal{A}	
conjunction	9520 Aug 02 23:21	18° \mathcal{O} 38'43	-0°29'15	retrograde	9526 Jun 05 20:10	25° \mathcal{A} 53'29	
minimum elong	9520 Aug 02 23:23	18° \mathcal{O} 38'44	0°29'29	opposition	9526 Aug 05 18:55	20° \mathcal{A} 59'03	0°41'03
max. Earth dist.	9520 Aug 04 01:26	18° \mathcal{O} 54'40	5.90307 AU	min. Earth dist.	9526 Aug 06 12:57	20° \mathcal{A} 53'16	4.50058 AU
morning rise	9520 Aug 16 10:35	21° \mathcal{O} 55'58		direct	9526 Oct 07 09:46	15° \mathcal{A} 57'33	
	9520 Sep 19 22:58	0° \mathbb{P}			9527 Jan 25 16:48	0° \mathcal{H}	
retrograde	9520 Dec 26 14:20	12° \mathbb{P} 48'09		evening set	9527 Feb 09 13:58	3° \mathcal{H} 08'04	
opposition	9521 Feb 23 22:31	7° \mathbb{P} 45'40	-0°24'44	max. Earth dist.	9527 Feb 20 23:07	5° \mathcal{H} 34'41	6.48409 AU
min. Earth dist.	9521 Feb 22 18:39	7° \mathbb{P} 55'07	3.92097 AU				
direct	9521 Apr 22 19:59	2° \mathbb{P} 50'27		conjunction	9527 Feb 22 12:19	5° \mathcal{H} 54'43	0°18'04
evening set	9521 Aug 27 18:34	22° \mathbb{P} 47'12		minimum elong	9527 Feb 22 12:20	5° \mathcal{H} 54'43	0°18'14
				morning rise	9527 Mar 07 08:28	8° \mathcal{H} 40'28	
conjunction	9521 Sep 10 08:45	26° \mathbb{P} 02'44	-0°02'20	retrograde	9527 Jul 06 01:59	25° \mathcal{H} 24'49	
minimum elong	9521 Sep 10 08:44	26° \mathbb{P} 02'44	0°02'23	opposition	9527 Sep 05 03:18	20° \mathcal{H} 31'48	0°09'52
behind sun begin	9521 Sep 10 00:21	25° \mathbb{P} 57'44		min. Earth dist.	9527 Sep 06 11:31	20° \mathcal{H} 21'31	4.44768 AU
behind sun end	9521 Sep 10 17:07	26° \mathbb{P} 07'44		direct	9527 Nov 06 17:38	15° \mathcal{H} 30'54	
max. Earth dist.	9521 Sep 12 13:52	26° \mathbb{P} 34'37	5.96458 AU	desc. node	9527 Dec 24 23:44	18° \mathcal{H} 47'18	
morning rise	9521 Sep 24 01:06	29° \mathbb{P} 19'07			9528 Feb 26 00:19	0° \mathcal{Y}	
	9521 Sep 26 21:58	0° \mathcal{A}		evening set	9528 Mar 10 22:36	3° \mathcal{Y} 00'08	
asc. node	9521 Oct 12 09:56	3° \mathcal{A} 37'02		max. Earth dist.	9528 Mar 21 13:34	5° \mathcal{Y} 20'09	6.39229 AU
retrograde	9522 Feb 01 08:16	19° \mathcal{A} 30'20					
min. Earth dist.	9522 Mar 31 06:46	14° \mathcal{A} 39'12	4.02989 AU	conjunction	9528 Mar 23 18:01	5° \mathcal{Y} 49'04	-0°05'31
opposition	9522 Apr 01 21:20	14° \mathcal{A} 26'04	0°18'08	minimum elong	9528 Mar 23 18:01	5° \mathcal{Y} 49'05	0°05'32
direct	9522 May 30 06:39	9° \mathcal{A} 28'43		behind sun begin	9528 Mar 23 10:21	5° \mathcal{Y} 44'52	

behind sun end	9528 Mar 24 01:41	5°♄53'17	opposition	9534 Apr 06 15:18	19°♑19'01	0°23'28
morning rise	9528 Apr 05 11:56	8°♄37'31	direct	9534 Jun 04 04:16	14°♑21'21	
retrograde	9528 Aug 06 01:56	26°♄00'38		9534 Sep 23 09:59	0°♑	
opposition	9528 Oct 05 22:35	21°♄07'43 -0°25'19	evening set	9534 Oct 08 20:27	3°♑29'52	
min. Earth dist.	9528 Oct 07 14:33	20°♄54'55 4.32200 AU				
direct	9528 Dec 06 23:01	16°♄08'01	conjunction	9534 Oct 22 11:31	6°♑38'03	0°27'42
	9529 Mar 23 03:10	0°♄	minimum elong	9534 Oct 22 11:30	6°♑38'02	0°27'53
evening set	9529 Apr 11 08:19	4°♄15'37	max. Earth dist.	9534 Oct 24 21:30	7°♑11'26	6.13005 AU
max. Earth dist.	9529 Apr 21 20:27	6°♄38'59 6.24159 AU	morning rise	9534 Nov 05 03:13	9°♑46'10	
				9534 Nov 28 14:17	15°♑	
conjunction	9529 Apr 24 03:01	7°♄10'07 -0°28'19	retrograde	9535 Mar 11 19:47	28°♑35'57	
minimum elong	9529 Apr 24 03:00	7°♄10'07 0°28'29	min. Earth dist.	9535 May 09 09:13	23°♑44'12	4.21493 AU
morning rise	9529 May 06 21:14	10°♄04'41	opposition	9535 May 10 18:44	23°♑32'56	0°54'45
	9529 May 29 00:03	15°♄	direct	9535 Jul 09 11:11	18°♑33'11	
retrograde	9529 Sep 09 10:27	28°♄31'56		9535 Oct 11 16:49	0°♄	
opposition	9529 Nov 08 23:03	23°♄37'48 -0°55'17	evening set	9535 Nov 12 18:49	6°♄50'49	
min. Earth dist.	9529 Nov 10 08:54	23°♄26'50 4.15603 AU				
direct	9530 Jan 08 17:53	18°♄40'01	conjunction	9535 Nov 26 06:35	9°♄50'14	0°43'07
	9530 Apr 10 17:37	0°♄	minimum elong	9535 Nov 26 06:35	9°♄50'14	0°43'25
evening set	9530 May 14 15:13	7°♄38'09	max. Earth dist.	9535 Nov 27 23:07	10°♄12'44	6.29825 AU
max. Earth dist.	9530 May 25 22:05	10°♄18'04 6.07383 AU	morning rise	9535 Dec 09 17:32	12°♄48'57	
				9536 Mar 24 15:17	0°♄	
conjunction	9530 May 27 12:10	10°♄40'38 -0°43'15	retrograde	9536 Apr 11 07:16	0°♄29'41	
minimum elong	9530 May 27 12:09	10°♄40'38 0°43'34		9536 Apr 28 19:21	30°♄♄	
morning rise	9530 Jun 09 09:49	13°♄43'51	opposition	9536 Jun 10 15:26	25°♄29'42	1°06'43
	9530 Aug 29 20:56	0°♄	min. Earth dist.	9536 Jun 09 21:28	25°♄35'38	4.37164 AU
retrograde	9530 Oct 16 11:47	3°♄26'18	direct	9536 Aug 10 16:00	20°♄28'39	
	9530 Dec 03 20:09	30°♄♄		9536 Nov 04 23:12	0°♄	
opposition	9530 Dec 15 10:45	28°♄29'55 -1°08'19	evening set	9536 Dec 14 11:56	8°♄04'51	
min. Earth dist.	9530 Dec 16 04:04	28°♄24'12 4.00056 AU				
direct	9531 Feb 12 20:20	23°♄34'16	conjunction	9536 Dec 27 18:42	10°♄56'51	0°44'53
	9531 Apr 19 03:51	0°♄	minimum elong	9536 Dec 27 18:43	10°♄56'51	0°45'14
evening set	9531 Jun 19 05:26	13°♄19'14	max. Earth dist.	9536 Dec 28 07:28	11°♄03'44	6.43183 AU
			morning rise	9537 Jan 09 23:50	13°♄47'51	
conjunction	9531 Jul 02 07:53	16°♄30'06 -0°43'15		9537 Apr 20 04:55	0°♄	
minimum elong	9531 Jul 02 07:54	16°♄30'06 0°43'35	retrograde	9537 May 11 06:56	0°♄41'30	
max. Earth dist.	9531 Jul 02 00:26	16°♄25'33 5.94541 AU		9537 Jun 01 06:55	30°♄♄	
morning rise	9531 Jul 15 12:18	19°♄42'13	opposition	9537 Jul 11 00:44	25°♄44'47	0°59'33
	9531 Aug 29 14:40	0°♄	min. Earth dist.	9537 Jul 11 01:28	25°♄44'33	4.47393 AU
retrograde	9531 Nov 24 03:21	10°♄22'03	direct	9537 Sep 11 02:04	20°♄43'13	
opposition	9532 Jan 22 16:21	5°♄22'29 -0°55'13		9537 Dec 06 04:06	0°♄	
min. Earth dist.	9532 Jan 22 08:01	5°♄25'16 3.91370 AU	evening set	9538 Jan 14 12:46	7°♄56'24	
direct	9532 Mar 20 22:06	0°♄27'56				
	9532 Jul 02 06:12	15°♄	conjunction	9538 Jan 27 14:40	10°♄44'00	0°34'23
evening set	9532 Jul 25 17:32	20°♄34'48	minimum elong	9538 Jan 27 14:41	10°♄44'00	0°34'39
			max. Earth dist.	9538 Jan 26 23:28	10°♄35'51	6.49588 AU
conjunction	9532 Aug 08 03:01	23°♄50'49 -0°26'04	morning rise	9538 Feb 09 14:17	13°♄30'32	
minimum elong	9532 Aug 08 03:03	23°♄50'49 0°26'17		9538 Feb 16 15:29	15°♄	
max. Earth dist.	9532 Aug 09 07:52	24°♄08'26 5.90899 AU		9538 Jun 01 23:12	0°♄	
morning rise	9532 Aug 21 15:09	27°♄08'09	retrograde	9538 Jun 09 23:06	0°♄05'59	
	9532 Sep 02 13:32	0°♄		9538 Jun 17 23:13	30°♄♄	
retrograde	9532 Dec 31 14:12	17°♄56'27	opposition	9538 Aug 09 22:57	25°♄11'47	0°37'11
opposition	9533 Feb 28 23:49	12°♄53'36 -0°19'02	min. Earth dist.	9538 Aug 10 18:21	25°♄05'34	4.49681 AU
min. Earth dist.	9533 Feb 27 18:18	13°♄03'38 3.93278 AU	direct	9538 Oct 11 13:55	20°♄10'20	
direct	9533 Apr 27 22:19	7°♄58'06		9539 Jan 08 15:58	0°♄	
asc. node	9533 Aug 23 20:21	25°♄42'41	evening set	9539 Feb 13 18:44	7°♄22'17	
evening set	9533 Sep 01 19:39	27°♄49'57	max. Earth dist.	9539 Feb 25 00:10	9°♄47'17	6.47563 AU
	9533 Sep 10 21:47	0°♄				
conjunction	9533 Sep 15 10:23	1°♄04'55 0°01'39	conjunction	9539 Feb 26 16:26	10°♄09'01	0°14'58
minimum elong	9533 Sep 15 10:23	1°♄04'55 0°01'38	minimum elong	9539 Feb 26 16:26	10°♄09'02	0°15'07
behind sun begin	9533 Sep 15 01:59	0°♄59'55	behind sun begin	9539 Feb 26 13:38	10°♄07'32	
behind sun end	9533 Sep 15 18:46	1°♄09'54	behind sun end	9539 Feb 26 19:14	10°♄10'32	
max. Earth dist.	9533 Sep 17 18:00	1°♄38'09 5.98114 AU	morning rise	9539 Mar 11 12:17	12°♄54'57	
morning rise	9533 Sep 29 02:48	4°♄20'33	retrograde	9539 Jul 10 10:37	29°♄42'43	
retrograde	9534 Feb 06 02:37	24°♄23'13	opposition	9539 Sep 09 10:49	24°♄49'44	0°05'00
min. Earth dist.	9534 Apr 05 01:33	19°♄31'50 4.04932 AU	min. Earth dist.	9539 Sep 10 21:10	24°♄38'46	4.43478 AU
			desc. node	9539 Nov 04 04:11	19°♄53'09	

direct	9539 Nov 11 01:06	19° H 48'51		opposition	9545 Mar 06 04:03	18° M 08'06	-0°13'03
	9540 Feb 09 00:46	0° Y		direct	9545 May 03 02:52	13° M 12'25	
evening set	9540 Mar 15 05:07	7° Y 21'52		asc. node	9545 Jul 03 15:49	19° M 03'17	
max. Earth dist.	9540 Mar 25 18:58	9° Y 41'48	6.37560 AU		9545 Aug 25 05:13	0° A	
				evening set	9545 Sep 07 00:39	3° A 00'26	
conjunction	9540 Mar 28 00:23	10° Y 11'21	-0°08'52				
minimum elong	9540 Mar 28 00:23	10° Y 11'21	0°08'55	conjunction	9545 Sep 20 15:38	6° A 14'50	0°05'39
behind sun begin	9540 Mar 27 17:31	10° Y 07'34		minimum elong	9545 Sep 20 15:38	6° A 14'50	0°05'40
behind sun end	9540 Mar 28 07:14	10° Y 15'07		behind sun begin	9545 Sep 20 07:36	6° A 10'05	
morning rise	9540 Apr 09 18:08	13° Y 00'22		behind sun end	9545 Sep 20 23:40	6° A 19'36	
	9540 Jul 23 14:26	0° B		max. Earth dist.	9545 Sep 23 00:27	6° A 48'38	5.99608 AU
retrograde	9540 Aug 10 14:52	0° B 30'20		morning rise	9545 Oct 04 08:27	9° A 29'53	
	9540 Aug 28 16:36	30° R Y		retrograde	9546 Feb 10 22:11	29° A 24'17	
opposition	9540 Oct 10 11:53	25° Y 37'14	-0°30'02	min. Earth dist.	9546 Apr 09 21:36	24° A 33'20	4.06847 AU
min. Earth dist.	9540 Oct 12 02:51	25° Y 24'44	4.30233 AU	opposition	9546 Apr 11 12:26	24° A 20'09	0°28'48
direct	9540 Dec 11 08:08	20° Y 37'43		direct	9546 Jun 09 03:36	19° A 22'14	
	9541 Mar 05 12:06	0° B			9546 Sep 05 08:53	0° M	
evening set	9541 Apr 15 19:24	8° B 51'05		evening set	9546 Oct 13 20:21	8° M 24'39	
max. Earth dist.	9541 Apr 26 09:26	11° B 16'14	6.22022 AU				
				conjunction	9546 Oct 27 11:11	11° M 31'45	0°30'37
conjunction	9541 Apr 28 14:09	11° B 46'29	-0°31'01	minimum elong	9546 Oct 27 11:10	11° M 31'44	0°30'50
minimum elong	9541 Apr 28 14:08	11° B 46'28	0°31'13	max. Earth dist.	9546 Oct 29 19:38	12° M 04'06	6.15189 AU
morning rise	9541 May 11 08:34	14° B 42'01		morning rise	9546 Nov 10 02:23	14° M 38'40	
	9541 May 12 16:07	15° B			9546 Nov 11 16:00	15° M	
	9541 Jul 29 07:11	0° II			9547 Jan 28 17:06	0° J	
retrograde	9541 Sep 14 10:09	3° II 18'45		retrograde	9547 Mar 16 09:25	3° J 18'44	
	9541 Nov 01 07:09	30° R B			9547 May 02 03:57	30° R M	
opposition	9541 Nov 13 20:04	28° B 24'22	-0°58'19	min. Earth dist.	9547 May 14 00:56	28° M 26'40	4.23750 AU
min. Earth dist.	9541 Nov 15 05:22	28° B 13'34	4.13427 AU	opposition	9547 May 15 08:22	28° M 16'07	0°57'39
direct	9542 Jan 13 11:28	23° B 26'51		direct	9547 Jul 14 05:44	23° M 16'12	
	9542 Mar 21 17:11	0° II			9547 Sep 21 16:46	0° J	
evening set	9542 May 19 09:06	12° II 31'31		evening set	9547 Nov 17 11:18	11° J 27'29	
max. Earth dist.	9542 May 30 18:56	15° II 13'56	6.05361 AU				
				conjunction	9547 Nov 30 22:29	14° J 25'45	0°44'11
conjunction	9542 Jun 01 06:37	15° II 35'10	-0°44'14	minimum elong	9547 Nov 30 22:28	14° J 25'45	0°44'30
minimum elong	9542 Jun 01 06:36	15° II 35'09	0°44'33	max. Earth dist.	9547 Dec 02 12:56	14° J 47'00	6.31999 AU
morning rise	9542 Jun 14 05:02	18° II 39'36		morning rise	9547 Dec 14 08:40	17° J 23'16	
	9542 Aug 04 17:33	0° B			9548 Feb 17 01:45	0° B	
retrograde	9542 Oct 21 16:00	8° B 31'17		retrograde	9548 Apr 15 12:08	4° B 55'45	
opposition	9542 Dec 20 14:24	3° B 34'33	-1°08'07	opposition	9548 Jun 14 22:45	29° J 56'12	1°06'47
min. Earth dist.	9542 Dec 21 04:04	3° B 30'02	3.98396 AU	min. Earth dist.	9548 Jun 14 05:57	0° B 01'44	4.39121 AU
	9543 Jan 20 00:18	30° R II			9548 Jun 14 11:13	30° R J	
direct	9543 Feb 17 18:31	28° II 39'08		direct	9548 Aug 15 02:13	24° J 55'06	
	9543 Mar 18 10:03	0° B			9548 Oct 14 19:13	0° B	
evening set	9543 Jun 24 06:35	18° B 29'01		evening set	9548 Dec 18 21:26	12° B 26'15	
conjunction	9543 Jul 07 09:54	21° B 40'51	-0°41'49	conjunction	9549 Jan 01 03:28	15° B 17'19	0°44'06
minimum elong	9543 Jul 07 09:55	21° B 40'52	0°42'09	minimum elong	9549 Jan 01 03:28	15° B 17'19	0°44'26
max. Earth dist.	9543 Jul 07 06:40	21° B 38'53	5.93405 AU	max. Earth dist.	9549 Jan 01 12:55	15° B 22'25	6.44798 AU
morning rise	9543 Jul 20 15:26	24° B 54'01		morning rise	9549 Jan 14 07:40	18° B 07'21	
	9543 Aug 11 02:33	0° Q			9549 Mar 17 10:31	0° A	
	9543 Nov 09 15:46	15° Q		retrograde	9549 May 15 09:39	4° A 55'44	
retrograde	9543 Nov 29 11:26	15° Q 38'38		opposition	9549 Jul 15 04:14	29° B 59'27	0°57'15
	9543 Dec 19 05:29	15° R Q		min. Earth dist.	9549 Jul 15 07:45	29° B 58'18	4.48567 AU
opposition	9544 Jan 27 23:11	10° Q 38'35	-0°51'18		9549 Jul 15 02:31	30° R B	
min. Earth dist.	9544 Jan 27 11:54	10° Q 42'22	3.90887 AU	direct	9549 Sep 15 09:02	24° B 57'53	
direct	9544 Mar 26 03:22	5° Q 43'59			9549 Nov 15 11:21	0° A	
	9544 Jun 13 07:43	15° Q		evening set	9550 Jan 18 17:21	12° A 08'18	
evening set	9544 Jul 30 22:53	25° Q 51'32					
				conjunction	9550 Jan 31 18:27	14° A 55'22	0°32'10
conjunction	9544 Aug 13 09:30	29° Q 07'56	-0°22'36	minimum elong	9550 Jan 31 18:28	14° A 55'22	0°32'25
minimum elong	9544 Aug 13 09:31	29° Q 07'56	0°22'48	max. Earth dist.	9550 Jan 30 22:28	14° A 44'40	6.50224 AU
max. Earth dist.	9544 Aug 14 20:03	29° Q 29'00	5.91132 AU		9550 Feb 01 03:07	15° A	
	9544 Aug 16 22:53	0° M		morning rise	9550 Feb 13 17:31	17° A 41'26	
morning rise	9544 Aug 26 22:23	2° M 25'31			9550 Apr 20 09:56	0° H	
retrograde	9545 Jan 05 19:32	23° M 11'12		retrograde	9550 Jun 14 01:24	4° H 15'25	
min. Earth dist.	9545 Mar 04 21:05	18° M 18'36	3.94197 AU		9550 Aug 09 00:45	30° R A	

opposition	9550 Aug 14 01:34	29° \approx 21'25	0°33'14			9555 Oct 02 10:01	15° Ω
min. Earth dist.	9550 Aug 14 23:32	29° \approx 14'22	4.49741 AU	retrograde		9555 Dec 04 22:05	20° Ω 59'52
direct	9550 Oct 15 17:30	24° \approx 19'56		opposition		9556 Feb 02 07:30	15° Ω 59'20 -0°47'00
	9550 Dec 20 00:14	0° \mathbb{X}		min. Earth dist.		9556 Feb 01 17:15	16° Ω 04'08 3.90103 AU
evening set	9551 Feb 17 21:00	11° \mathbb{X} 32'06				9556 Feb 09 16:57	15° \mathbb{R} Ω
max. Earth dist.	9551 Mar 01 00:36	13° \mathbb{X} 56'16	6.47029 AU	direct		9556 Mar 31 08:35	11° Ω 04'43
						9556 May 19 15:08	15° Ω
conjunction	9551 Mar 02 18:23	14° \mathbb{X} 18'51	0°11'54			9556 Jul 31 04:21	0° \mathbb{P}
minimum elong	9551 Mar 02 18:24	14° \mathbb{X} 18'52	0°12'01	evening set		9556 Aug 05 06:58	1° \mathbb{P} 14'03
behind sun begin	9551 Mar 02 12:55	14° \mathbb{X} 15'55					
behind sun end	9551 Mar 02 23:53	14° \mathbb{X} 21'49		conjunction		9556 Aug 18 18:23	4° \mathbb{P} 30'51 -0°18'57
morning rise	9551 Mar 15 13:38	17° \mathbb{X} 04'47		minimum elong		9556 Aug 18 18:25	4° \mathbb{P} 30'52 0°19'08
	9551 May 23 09:53	0° \mathbb{Y}		max. Earth dist.		9556 Aug 20 08:42	4° \mathbb{P} 54'11 5.91172 AU
retrograde	9551 Jul 14 14:48	3° \mathbb{Y} 55'22		morning rise		9556 Sep 01 08:24	7° \mathbb{P} 48'53
	9551 Sep 06 02:13	30° \mathbb{R} \mathbb{X}		retrograde		9557 Jan 11 00:45	28° \mathbb{P} 32'01
opposition	9551 Sep 13 15:54	29° \mathbb{X} 02'25	0°00'18	min. Earth dist.		9557 Mar 09 23:52	23° \mathbb{P} 40'10 3.95066 AU
min. Earth dist.	9551 Sep 15 03:19	28° \mathbb{X} 51'06	4.42361 AU	opposition		9557 Mar 11 10:04	23° \mathbb{P} 28'33 -0°06'57
desc. node	9551 Sep 16 22:41	28° \mathbb{X} 37'17		direct		9557 May 08 09:06	18° \mathbb{P} 32'33
direct	9551 Nov 15 04:20	24° \mathbb{X} 01'38		asc. node		9557 May 13 15:15	18° \mathbb{P} 35'25
	9552 Jan 20 16:35	0° \mathbb{Y}				9557 Aug 06 20:57	0° $\underline{\mathbb{A}}$
evening set	9552 Mar 19 08:57	11° \mathbb{Y} 38'06		evening set		9557 Sep 12 08:13	8° $\underline{\mathbb{A}}$ 16'42
max. Earth dist.	9552 Mar 29 20:28	13° \mathbb{Y} 57'17	6.35912 AU				
				conjunction		9557 Sep 25 23:34	11° $\underline{\mathbb{A}}$ 30'29 0°09'36
conjunction	9552 Apr 01 03:50	14° \mathbb{Y} 28'04	-0°12'04	minimum elong		9557 Sep 25 23:34	11° $\underline{\mathbb{A}}$ 30'29 0°09'38
minimum elong	9552 Apr 01 03:49	14° \mathbb{Y} 28'03	0°12'08	behind sun begin		9557 Sep 25 16:41	11° $\underline{\mathbb{A}}$ 26'26
behind sun begin	9552 Mar 31 22:23	14° \mathbb{Y} 25'03		behind sun end		9557 Sep 26 06:26	11° $\underline{\mathbb{A}}$ 34'32
behind sun end	9552 Apr 01 09:16	14° \mathbb{Y} 31'04		max. Earth dist.		9557 Sep 28 10:15	12° $\underline{\mathbb{A}}$ 05'17 6.01209 AU
morning rise	9552 Apr 13 21:34	17° \mathbb{Y} 17'41		morning rise		9557 Oct 09 16:28	14° $\underline{\mathbb{A}}$ 44'46
	9552 Jun 17 12:34	0° \mathbb{B}				9557 Dec 23 07:54	0° \mathbb{L}
retrograde	9552 Aug 15 04:04	4° \mathbb{B} 54'54		retrograde		9558 Feb 15 20:46	4° \mathbb{L} 30'05
opposition	9552 Oct 14 22:54	0° \mathbb{B} 01'39	-0°34'26			9558 Apr 12 06:45	30° \mathbb{R} $\underline{\mathbb{A}}$
	9552 Oct 15 04:02	30° \mathbb{R} \mathbb{Y}		min. Earth dist.		9558 Apr 14 21:15	29° $\underline{\mathbb{A}}$ 38'52 4.08962 AU
min. Earth dist.	9552 Oct 16 15:12	29° \mathbb{Y} 48'42	4.28124 AU	opposition		9558 Apr 16 11:31	29° $\underline{\mathbb{A}}$ 25'53 0°33'55
direct	9552 Dec 15 16:50	25° \mathbb{Y} 02'14		direct		9558 Jun 14 07:12	24° $\underline{\mathbb{A}}$ 27'34
	9553 Feb 12 15:47	0° \mathbb{B}				9558 Aug 14 07:51	0° \mathbb{L}
evening set	9553 Apr 20 04:18	13° \mathbb{B} 22'11		evening set		9558 Oct 18 21:38	13° \mathbb{L} 22'42
	9553 Apr 27 06:51	15° \mathbb{B}				9558 Oct 26 00:48	15° \mathbb{L}
max. Earth dist.	9553 Apr 30 18:43	15° \mathbb{B} 48'18	6.19612 AU				
				conjunction		9558 Nov 01 12:11	16° \mathbb{L} 28'34 0°33'19
conjunction	9553 May 02 23:21	16° \mathbb{B} 18'38	-0°33'27	minimum elong		9558 Nov 01 12:10	16° \mathbb{L} 28'33 0°33'34
minimum elong	9553 May 02 23:20	16° \mathbb{B} 18'38	0°33'41	max. Earth dist.		9558 Nov 03 20:54	17° \mathbb{L} 00'53 6.17607 AU
morning rise	9553 May 15 18:05	19° \mathbb{B} 15'19		morning rise		9558 Nov 15 02:46	19° \mathbb{L} 34'07
	9553 Jul 05 02:08	0° \mathbb{I}				9559 Jan 03 18:01	0° \mathbb{J}
retrograde	9553 Sep 19 06:14	8° \mathbb{I} 02'43		retrograde		9559 Mar 20 21:06	8° \mathbb{J} 03'22
opposition	9553 Nov 18 15:12	3° \mathbb{I} 08'04	-1°00'58	opposition		9559 May 19 22:49	3° \mathbb{J} 01'01 1°00'08
min. Earth dist.	9553 Nov 19 22:32	2° \mathbb{I} 57'53	4.10900 AU	min. Earth dist.		9559 May 18 15:49	3° \mathbb{J} 11'23 4.26222 AU
	9553 Dec 14 18:04	30° \mathbb{R} \mathbb{B}				9559 Jun 13 06:59	30° \mathbb{R} \mathbb{L}
direct	9554 Jan 18 00:42	28° \mathbb{B} 10'47		direct		9559 Jul 18 23:43	28° \mathbb{L} 00'51
	9554 Feb 21 01:16	0° \mathbb{I}				9559 Aug 24 02:37	0° \mathbb{J}
evening set	9554 May 24 02:15	17° \mathbb{I} 23'40		evening set		9559 Nov 22 04:27	16° \mathbb{J} 04'55
max. Earth dist.	9554 Jun 04 15:27	20° \mathbb{I} 08'58	6.02933 AU				
				conjunction		9559 Dec 05 14:47	19° \mathbb{J} 01'54 0°44'57
conjunction	9554 Jun 06 00:23	20° \mathbb{I} 28'41	-0°44'55	minimum elong		9559 Dec 05 14:47	19° \mathbb{J} 01'54 0°45'17
minimum elong	9554 Jun 06 00:23	20° \mathbb{I} 28'40	0°45'15	max. Earth dist.		9559 Dec 07 00:40	19° \mathbb{J} 20'32 6.34306 AU
morning rise	9554 Jun 18 23:45	23° \mathbb{I} 34'36		morning rise		9559 Dec 19 00:10	21° \mathbb{J} 58'06
	9554 Jul 16 17:51	0° \mathbb{B}				9560 Jan 26 17:35	0° \mathbb{B}
retrograde	9554 Oct 26 22:28	13° \mathbb{B} 37'26		retrograde		9560 Apr 19 19:11	9° \mathbb{B} 22'03
opposition	9554 Dec 25 18:15	8° \mathbb{B} 40'15	-1°07'28	opposition		9560 Jun 19 06:35	4° \mathbb{B} 22'56 1°06'26
min. Earth dist.	9554 Dec 26 05:22	8° \mathbb{B} 36'34	3.96296 AU	min. Earth dist.		9560 Jun 18 17:19	4° \mathbb{B} 27'17 4.41075 AU
direct	9555 Feb 22 18:43	3° \mathbb{B} 44'59				9560 Jul 30 07:03	30° \mathbb{R} \mathbb{J}
evening set	9555 Jun 29 08:29	23° \mathbb{B} 41'32		direct		9560 Aug 19 15:26	29° \mathbb{J} 21'40
						9560 Sep 09 03:39	0° \mathbb{B}
conjunction	9555 Jul 12 13:04	26° \mathbb{B} 54'40	-0°40'05	evening set		9560 Dec 23 07:20	16° \mathbb{B} 47'56
minimum elong	9555 Jul 12 13:05	26° \mathbb{B} 54'41	0°40'24				
max. Earth dist.	9555 Jul 12 15:59	26° \mathbb{B} 56'27	5.91863 AU	conjunction		9561 Jan 05 12:40	19° \mathbb{B} 38'09 0°43'02
morning rise	9555 Jul 25 19:42	0° Ω 09'05		minimum elong		9561 Jan 05 12:41	19° \mathbb{B} 38'09 0°43'21
	9555 Jul 25 04:43	0° Ω		max. Earth dist.		9561 Jan 05 18:15	19° \mathbb{B} 41'08 6.46247 AU

morning rise	9561 Jan 18 16:03	22°♄27'18	conjunction	9566 Jun 11 00:28	25°♄37'28 -0°45'18
	9561 Feb 24 18:01	0°♄	minimum elong	9566 Jun 11 00:28	25°♄37'28 0°45'38
retrograde	9561 May 19 12:08	9°♄11'13	morning rise	9566 Jun 24 00:39	28°♄44'50
opposition	9561 Jul 19 08:44	4°♄15'17 0°54'34		9566 Jun 29 06:55	0°♄
min. Earth dist.	9561 Jul 19 14:25	4°♄13'27 4.49433 AU	retrograde	9566 Nov 01 10:46	18°♄57'42
	9561 Aug 27 23:56	30°♄	opposition	9566 Dec 31 03:36	14°♄00'12 -1°06'11
direct	9561 Sep 19 15:04	29°♄13'43	min. Earth dist.	9566 Dec 31 11:19	13°♄57'38 3.94645 AU
	9561 Oct 12 13:19	0°♄	direct	9567 Feb 27 23:18	9°♄05'14
	9562 Jan 16 10:43	15°♄	evening set	9567 Jul 04 15:47	29°♄06'36
evening set	9562 Jan 22 22:57	16°♄22'27		9567 Jul 08 07:24	0°♄
conjunction	9562 Feb 04 23:28	19°♄09'12 0°29'41	conjunction	9567 Jul 17 21:15	2°♄20'39 -0°37'56
minimum elong	9562 Feb 04 23:29	19°♄09'13 0°29'56	minimum elong	9567 Jul 17 21:16	2°♄20'39 0°38'14
max. Earth dist.	9562 Feb 04 00:34	18°♄56'57 6.50450 AU	max. Earth dist.	9567 Jul 18 04:33	2°♄25'06 5.90967 AU
morning rise	9562 Feb 17 21:48	21°♄54'57	morning rise	9567 Jul 31 05:11	5°♄36'04
	9562 Mar 30 01:18	0°♄		9567 Sep 09 18:38	15°♄
retrograde	9562 Jun 18 06:12	8°♄29'01	retrograde	9567 Dec 10 08:42	26°♄29'45
opposition	9562 Aug 18 06:35	3°♄35'18 0°28'59	opposition	9568 Feb 07 18:43	21°♄28'45 -0°42'06
min. Earth dist.	9562 Aug 19 07:18	3°♄27'23 4.49311 AU	min. Earth dist.	9568 Feb 06 23:55	21°♄35'05 3.90107 AU
	9562 Sep 18 15:38	30°♄	direct	9568 Apr 05 17:23	16°♄34'05
direct	9562 Oct 19 23:35	28°♄33'56		9568 Jul 13 05:40	0°♄
	9562 Nov 20 11:38	0°♄	evening set	9568 Aug 10 17:08	6°♄42'00
evening set	9563 Feb 22 02:10	15°♄47'56	conjunction	9568 Aug 24 05:25	9°♄58'45 -0°15'04
max. Earth dist.	9563 Mar 05 00:55	18°♄09'55 6.45958 AU	minimum elong	9568 Aug 24 05:26	9°♄58'45 0°15'12
conjunction	9563 Mar 06 22:57	18°♄34'53 0°08'39	behind sun begin	9568 Aug 24 02:47	9°♄57'09
minimum elong	9563 Mar 06 22:58	18°♄34'54 0°08'44	behind sun end	9568 Aug 24 08:05	10°♄00'21
behind sun begin	9563 Mar 06 16:03	18°♄31'10	max. Earth dist.	9568 Aug 26 00:46	10°♄25'06 5.92087 AU
behind sun end	9563 Mar 07 05:52	18°♄38'37	morning rise	9568 Sep 06 20:01	13°♄16'36
morning rise	9563 Mar 19 18:00	21°♄21'07		9568 Nov 27 02:56	0°♄
	9563 May 01 06:17	0°♄	retrograde	9569 Jan 16 07:00	3°♄53'32
retrograde	9563 Jul 19 01:11	8°♄16'27		9569 Mar 07 23:46	30°♄
desc. node	9563 Jul 28 04:53	8°♄08'33	min. Earth dist.	9569 Mar 15 04:56	29°♄01'44 3.96763 AU
opposition	9563 Sep 18 01:00	3°♄23'32 -0°04'40	opposition	9569 Mar 16 16:07	28°♄49'45 -0°00'46
min. Earth dist.	9563 Sep 19 14:09	3°♄11'39 4.40703 AU	asc. node	9569 Mar 23 16:42	27°♄52'46
	9563 Oct 17 06:51	30°♄	direct	9569 May 13 18:15	23°♄53'26
direct	9563 Nov 19 11:48	28°♄22'52		9569 Jul 16 00:52	0°♄
	9563 Dec 22 17:17	0°♄	evening set	9569 Sep 17 14:42	13°♄30'41
evening set	9564 Mar 23 17:03	16°♄04'37	conjunction	9569 Oct 01 06:12	16°♄43'26 0°13'27
max. Earth dist.	9564 Apr 03 04:24	18°♄24'22 6.33789 AU	minimum elong	9569 Oct 01 06:11	16°♄43'25 0°13'31
conjunction	9564 Apr 05 11:58	18°♄55'23 -0°15'22	behind sun begin	9569 Oct 01 01:39	16°♄40'46
minimum elong	9564 Apr 05 11:57	18°♄55'23 0°15'27	behind sun end	9569 Oct 01 10:42	16°♄46'04
behind sun begin	9564 Apr 05 09:31	18°♄54'01	max. Earth dist.	9569 Oct 03 19:19	17°♄19'27 6.03507 AU
behind sun end	9564 Apr 05 14:24	18°♄56'44	morning rise	9569 Oct 14 22:55	19°♄56'31
morning rise	9564 Apr 18 05:32	21°♄45'50		9569 Nov 29 18:08	0°♄
	9564 May 27 04:04	0°♄	retrograde	9570 Feb 20 14:57	9°♄30'17
retrograde	9564 Aug 19 21:18	9°♄31'59	min. Earth dist.	9570 Apr 19 17:09	4°♄39'18 4.11607 AU
opposition	9564 Oct 19 15:20	4°♄38'40 -0°38'54	opposition	9570 Apr 21 07:51	4°♄26'12 0°38'40
min. Earth dist.	9564 Oct 21 07:00	4°♄25'55 4.25670 AU		9570 Jun 01 07:19	30°♄
	9564 Dec 05 10:14	30°♄	direct	9570 Jun 19 06:26	29°♄27'37
direct	9564 Dec 20 04:14	29°♄39'35		9570 Jul 07 10:24	0°♄
	9565 Jan 03 23:46	0°♄	evening set	9570 Oct 09 07:49	15°♄
	9565 Apr 11 00:46	15°♄		9570 Oct 23 20:08	18°♄14'07
evening set	9565 Apr 24 18:55	18°♄07'16	conjunction	9570 Nov 06 10:00	21°♄18'31 0°35'44
max. Earth dist.	9565 May 05 10:27	20°♄34'56 6.17014 AU	minimum elong	9570 Nov 06 09:59	21°♄18'30 0°35'59
conjunction	9565 May 07 14:05	21°♄04'54 -0°35'49	max. Earth dist.	9570 Nov 08 14:53	21°♄48'28 6.20344 AU
minimum elong	9565 May 07 14:04	21°♄04'54 0°36'05	morning rise	9570 Nov 20 00:01	24°♄22'33
morning rise	9565 May 20 09:24	24°♄02'54		9570 Dec 15 17:43	0°♄
	9565 Jun 15 20:42	0°♄	retrograde	9571 Mar 25 06:33	12°♄40'33
retrograde	9565 Sep 24 10:21	13°♄01'57	min. Earth dist.	9571 May 23 05:57	7°♄47'56 4.28808 AU
opposition	9565 Nov 23 17:01	8°♄07'02 -1°03'20	opposition	9571 May 24 10:02	7°♄38'33 1°02'09
min. Earth dist.	9565 Nov 24 22:29	7°♄57'25 4.08357 AU	direct	9571 Jul 23 16:48	2°♄38'08
direct	9566 Jan 22 22:11	3°♄10'04	evening set	9571 Nov 26 17:55	20°♄35'01
evening set	9566 May 29 01:25	22°♄31'04	conjunction	9571 Dec 10 03:42	23°♄30'49 0°45'25
max. Earth dist.	9566 Jun 09 20:30	25°♄20'40 6.00704 AU			

minimum elong	9571 Dec 10 03:42	23° ♁ 30'49	0°45'47	direct	9578 Jan 27 20:57	8° ♁ 14'15	
max. Earth dist.	9571 Dec 11 10:45	23° ♁ 47'49	6.36542 AU	evening set	9578 Jun 03 02:33	27° ♁ 42'11	
morning rise	9571 Dec 23 12:04	26° ♁ 25'44			9578 Jun 12 15:46	0° ♁	
	9572 Jan 09 05:01	0° ♁		max. Earth dist.	9578 Jun 15 01:59	0° ♁ 35'08	5.98871 AU
retrograde	9572 Apr 23 21:32	13° ♁ 41'52					
opposition	9572 Jun 23 11:35	8° ♁ 43'13	1°05'44	conjunction	9578 Jun 16 02:14	0° ♁ 49'45	-0°45'18
min. Earth dist.	9572 Jun 23 00:23	8° ♁ 46'54	4.42817 AU	minimum elong	9578 Jun 16 02:14	0° ♁ 49'45	0°45'40
direct	9572 Aug 23 23:28	3° ♁ 41'53		morning rise	9578 Jun 29 03:32	3° ♁ 58'25	
evening set	9572 Dec 27 14:27	21° ♁ 04'03		retrograde	9578 Nov 06 20:59	24° ♁ 19'21	
				opposition	9579 Jan 05 13:38	19° ♁ 21'18	-1°04'18
conjunction	9573 Jan 09 18:56	23° ♁ 53'31	0°41'46	min. Earth dist.	9579 Jan 05 16:35	19° ♁ 20'19	3.93505 AU
minimum elong	9573 Jan 09 18:57	23° ♁ 53'32	0°42'05	direct	9579 Mar 05 05:06	14° ♁ 26'28	
max. Earth dist.	9573 Jan 09 18:58	23° ♁ 53'32	6.47371 AU		9579 Jun 21 03:21	0° ♁	
morning rise	9573 Jan 22 21:37	26° ♁ 41'59		evening set	9579 Jul 09 22:52	4° ♁ 30'20	
	9573 Feb 07 14:40	0° ♁					
retrograde	9573 May 23 15:04	13° ♁ 22'43		conjunction	9579 Jul 23 05:25	7° ♁ 45'02	-0°35'27
opposition	9573 Jul 23 11:35	8° ♁ 27'10	0°51'41	minimum elong	9579 Jul 23 05:27	7° ♁ 45'02	0°35'45
min. Earth dist.	9573 Jul 23 21:17	8° ♁ 24'02	4.49887 AU	max. Earth dist.	9579 Jul 23 19:29	7° ♁ 53'38	5.90637 AU
direct	9573 Sep 23 21:38	3° ♁ 25'33		morning rise	9579 Aug 05 14:15	11° ♁ 01'03	
	9573 Dec 31 02:55	15° ♁			9579 Aug 22 04:53	15° ♁	
evening set	9574 Jan 27 03:06	20° ♁ 33'55			9579 Nov 11 05:32	0° ♁	
max. Earth dist.	9574 Feb 07 23:45	23° ♁ 05'54	6.50196 AU	retrograde	9579 Dec 15 19:26	1° ♁ 55'02	
					9580 Jan 19 07:33	30° ♁	
conjunction	9574 Feb 09 03:06	23° ♁ 20'33	0°27'07	min. Earth dist.	9580 Feb 12 07:24	27° ♁ 00'38	3.90615 AU
minimum elong	9574 Feb 09 03:07	23° ♁ 20'33	0°27'21	opposition	9580 Feb 13 04:24	26° ♁ 53'32	-0°36'53
morning rise	9574 Feb 22 00:56	26° ♁ 06'12		direct	9580 Apr 11 03:32	21° ♁ 58'45	
	9574 Mar 12 16:05	0° ♁			9580 Jun 23 02:46	0° ♁	
retrograde	9574 Jun 22 10:07	12° ♁ 41'54		evening set	9580 Aug 16 01:23	12° ♁ 03'21	
opposition	9574 Aug 22 11:05	7° ♁ 48'19	0°24'38				
min. Earth dist.	9574 Aug 23 13:35	7° ♁ 39'50	4.48386 AU	conjunction	9580 Aug 29 14:22	15° ♁ 19'48	-0°11'06
direct	9574 Oct 24 03:17	2° ♁ 46'58		minimum elong	9580 Aug 29 14:22	15° ♁ 19'49	0°11'13
evening set	9575 Feb 26 07:04	20° ♁ 04'18		behind sun begin	9580 Aug 29 08:14	15° ♁ 16'07	
max. Earth dist.	9575 Mar 09 04:27	22° ♁ 26'01	6.44426 AU	behind sun end	9580 Aug 29 20:31	15° ♁ 23'31	
				max. Earth dist.	9580 Aug 31 14:10	15° ♁ 48'44	5.93360 AU
conjunction	9575 Mar 11 03:39	22° ♁ 51'43	0°05'22	morning rise	9580 Sep 12 05:32	18° ♁ 37'16	
minimum elong	9575 Mar 11 03:38	22° ♁ 51'43	0°05'26		9580 Nov 02 02:21	0° ♁	
behind sun begin	9575 Mar 10 19:57	22° ♁ 47'33		retrograde	9581 Jan 21 08:42	9° ♁ 06'33	
behind sun end	9575 Mar 11 11:20	22° ♁ 55'53		asc. node	9581 Feb 01 02:40	8° ♁ 54'52	
morning rise	9575 Mar 23 22:16	25° ♁ 38'25		min. Earth dist.	9581 Mar 20 05:54	4° ♁ 15'11	3.98656 AU
	9575 Apr 13 11:05	0° ♁		opposition	9581 Mar 21 18:50	4° ♁ 02'37	0°05'18
desc. node	9575 Jun 07 10:33	9° ♁ 33'36			9581 Apr 25 22:10	30° ♁	
retrograde	9575 Jul 23 12:03	12° ♁ 39'58		direct	9581 May 18 22:08	29° ♁ 06'02	
opposition	9575 Sep 22 11:15	7° ♁ 47'06	-0°09'37		9581 Jun 11 01:43	0° ♁	
min. Earth dist.	9575 Sep 24 01:40	7° ♁ 34'49	4.38656 AU	evening set	9581 Sep 22 18:27	18° ♁ 36'17	
direct	9575 Nov 23 19:46	2° ♁ 46'38					
evening set	9576 Mar 28 02:29	20° ♁ 34'45		conjunction	9581 Oct 06 09:48	21° ♁ 47'55	0°17'08
max. Earth dist.	9576 Apr 07 12:10	22° ♁ 54'24	6.31372 AU	minimum elong	9581 Oct 06 09:47	21° ♁ 47'54	0°17'15
				max. Earth dist.	9581 Oct 08 21:30	22° ♁ 22'54	6.05811 AU
conjunction	9576 Apr 09 21:10	23° ♁ 26'24	-0°18'36	morning rise	9581 Oct 20 02:31	24° ♁ 59'52	
minimum elong	9576 Apr 09 21:10	23° ♁ 26'24	0°18'43		9581 Nov 11 02:42	0° ♁	
morning rise	9576 Apr 22 15:00	26° ♁ 17'52		retrograde	9582 Feb 25 06:38	14° ♁ 22'45	
	9576 May 09 10:22	0° ♁		min. Earth dist.	9582 Apr 24 12:10	9° ♁ 31'29	4.14076 AU
retrograde	9576 Aug 24 17:55	14° ♁ 14'05		opposition	9582 Apr 26 01:30	9° ♁ 18'51	0°43'04
opposition	9576 Oct 24 10:08	9° ♁ 20'34	-0°43'11	direct	9582 Jun 24 04:49	4° ♁ 19'58	
min. Earth dist.	9576 Oct 26 00:52	9° ♁ 08'05	4.23048 AU		9582 Sep 21 13:40	15° ♁	
direct	9576 Dec 24 19:15	4° ♁ 21'44		evening set	9582 Oct 28 15:55	22° ♁ 58'56	
	9577 Mar 24 09:39	15° ♁					
evening set	9577 Apr 29 11:36	22° ♁ 57'31		conjunction	9582 Nov 11 05:30	26° ♁ 02'06	0°37'53
max. Earth dist.	9577 May 10 07:20	25° ♁ 28'26	6.14424 AU	minimum elong	9582 Nov 11 05:29	26° ♁ 02'05	0°38'09
				max. Earth dist.	9582 Nov 13 08:54	26° ♁ 31'04	6.22783 AU
conjunction	9577 May 12 07:18	25° ♁ 56'25	-0°37'58	morning rise	9582 Nov 24 18:40	29° ♁ 04'46	
minimum elong	9577 May 12 07:17	25° ♁ 56'24	0°38'14		9582 Nov 28 21:56	0° ♁	
morning rise	9577 May 25 02:58	28° ♁ 55'42		retrograde	9583 Mar 29 14:53	17° ♁ 13'05	
	9577 May 29 18:06	0° ♁		opposition	9583 May 28 19:48	12° ♁ 11'36	1°03'47
retrograde	9577 Sep 29 16:24	18° ♁ 06'01		min. Earth dist.	9583 May 27 17:38	12° ♁ 20'19	4.31014 AU
opposition	9577 Nov 28 20:55	13° ♁ 10'50	-1°05'13	direct	9583 Jul 28 06:37	7° ♁ 11'05	
min. Earth dist.	9577 Nov 29 23:47	13° ♁ 02'03	4.06041 AU	evening set	9583 Dec 01 06:31	25° ♁ 02'18	

conjunction	9583 Dec 14 15:26	27° ♄ 57'05	0°45'39	minimum elong	9589 May 17 00:37	0° ♄ 49'55	0°40'10
minimum elong	9583 Dec 14 15:26	27° ♄ 57'05	0°46'00	morning rise	9589 May 29 20:58	3° ♄ 50'19	
max. Earth dist.	9583 Dec 15 16:49	28° ♄ 10'55	6.38347 AU	retrograde	9589 Oct 04 20:12	23° ♄ 09'42	
	9583 Dec 24 01:06	0° ♄		opposition	9589 Dec 04 00:09	18° ♄ 14'07	-1°06'38
morning rise	9583 Dec 27 23:11	0° ♄ 50'59		min. Earth dist.	9589 Dec 04 23:09	18° ♄ 06'35	4.04383 AU
retrograde	9584 Apr 28 02:07	18° ♄ 01'01		direct	9590 Feb 01 19:33	13° ♄ 17'49	
opposition	9584 Jun 27 16:36	13° ♄ 02'52	1°04'42		9590 May 27 03:38	0° ♄	
min. Earth dist.	9584 Jun 27 09:05	13° ♄ 05'20	4.44120 AU	evening set	9590 Jun 08 01:57	2° ♄ 50'06	
direct	9584 Aug 28 08:51	8° ♄ 01'27		max. Earth dist.	9590 Jun 20 08:29	5° ♄ 47'40	5.97729 AU
evening set	9584 Dec 31 21:44	25° ♄ 21'01					
conjunction	9585 Jan 14 01:46	28° ♄ 10'01	0°40'15	conjunction	9590 Jun 21 02:27	5° ♄ 58'32	-0°44'59
minimum elong	9585 Jan 14 01:47	28° ♄ 10'01	0°40'35	minimum elong	9590 Jun 21 02:27	5° ♄ 58'32	0°45'20
max. Earth dist.	9585 Jan 13 22:50	28° ♄ 08'27	6.48090 AU	morning rise	9590 Jul 04 04:26	9° ♄ 08'04	
	9585 Jan 22 15:02	0° ♄		retrograde	9590 Nov 12 05:01	29° ♄ 34'05	
morning rise	9585 Jan 27 03:37	0° ♄ 57'56		opposition	9591 Jan 10 20:18	24° ♄ 35'33	-1°01'57
	9585 Apr 15 16:47	15° ♄		min. Earth dist.	9591 Jan 10 20:42	24° ♄ 35'25	3.93012 AU
retrograde	9585 May 27 17:10	17° ♄ 36'50		direct	9591 Mar 10 09:48	19° ♄ 40'50	
	9585 Jul 08 23:45	15° ♄			9591 Jun 02 20:28	0° ♄	
opposition	9585 Jul 27 15:32	12° ♄ 41'40	0°48'31	evening set	9591 Jul 15 02:18	9° ♄ 44'47	
min. Earth dist.	9585 Jul 28 02:57	12° ♄ 38'00	4.50000 AU	conjunction	9591 Jul 28 09:42	12° ♄ 59'47	-0°32'48
direct	9585 Sep 28 02:11	7° ♄ 40'08		minimum elong	9591 Jul 28 09:43	12° ♄ 59'48	0°33'05
	9585 Dec 12 11:59	15° ♄		max. Earth dist.	9591 Jul 29 04:17	13° ♄ 11'09	5.90835 AU
evening set	9586 Jan 31 08:27	24° ♄ 49'07			9591 Aug 05 14:26	15° ♄	
max. Earth dist.	9586 Feb 12 01:06	27° ♄ 19'14	6.49700 AU	morning rise	9591 Aug 10 19:31	16° ♄ 16'08	
					9591 Oct 12 03:32	0° ♄	
conjunction	9586 Feb 13 07:51	27° ♄ 35'44	0°24'21	retrograde	9591 Dec 20 23:15	7° ♄ 08'00	
minimum elong	9586 Feb 13 07:52	27° ♄ 35'44	0°24'33	min. Earth dist.	9592 Feb 17 08:14	2° ♄ 14'15	3.91508 AU
	9586 Feb 24 13:03	0° ♄		opposition	9592 Feb 18 08:20	2° ♄ 06'06	-0°31'35
morning rise	9586 Feb 26 05:13	0° ♄ 21'25			9592 Mar 05 10:11	30° ♄	
retrograde	9586 Jun 26 17:36	16° ♄ 59'39		direct	9592 Apr 16 06:29	27° ♄ 11'07	
opposition	9586 Aug 26 17:51	12° ♄ 06'19	0°20'03		9592 May 27 16:14	0° ♄	
min. Earth dist.	9586 Aug 27 23:05	11° ♄ 56'59	4.47315 AU	evening set	9592 Aug 21 04:18	17° ♄ 11'22	
direct	9586 Oct 28 10:43	7° ♄ 05'09		conjunction	9592 Sep 03 17:40	20° ♄ 27'20	-0°07'15
evening set	9587 Mar 02 13:48	24° ♄ 26'07		minimum elong	9592 Sep 03 17:41	20° ♄ 27'20	0°07'21
max. Earth dist.	9587 Mar 13 08:06	26° ♄ 46'44	6.42866 AU	behind sun begin	9592 Sep 03 10:02	20° ♄ 22'45	
				behind sun end	9592 Sep 04 01:20	20° ♄ 31'55	
conjunction	9587 Mar 15 10:00	27° ♄ 14'00	0°01'57	max. Earth dist.	9592 Sep 05 18:20	20° ♄ 56'40	5.94829 AU
minimum elong	9587 Mar 15 10:00	27° ♄ 14'00	0°02'00	morning rise	9592 Sep 17 09:24	23° ♄ 44'16	
behind sun begin	9587 Mar 15 02:01	27° ♄ 09'39			9592 Oct 14 07:35	0° ♄	
behind sun end	9587 Mar 15 17:59	27° ♄ 18'20		asc. node	9592 Dec 14 04:43	11° ♄ 11'19	
morning rise	9587 Mar 28 04:29	0° ♄ 01'14		retrograde	9593 Jan 26 03:53	14° ♄ 05'36	
	9587 Mar 28 02:13	0° ♄		min. Earth dist.	9593 Mar 25 02:37	9° ♄ 14'07	4.00526 AU
desc. node	9587 Apr 16 01:02	4° ♄ 02'56		opposition	9593 Mar 26 15:43	9° ♄ 01'30	0°11'01
retrograde	9587 Jul 28 00:42	17° ♄ 09'12		direct	9593 May 23 21:48	4° ♄ 04'33	
opposition	9587 Sep 26 23:37	12° ♄ 16'20	-0°14'39	evening set	9593 Sep 27 16:29	23° ♄ 28'15	
min. Earth dist.	9587 Sep 28 13:44	12° ♄ 04'08	4.36726 AU				
direct	9587 Nov 28 05:11	7° ♄ 16'08		conjunction	9593 Oct 11 07:58	26° ♄ 38'55	0°20'32
evening set	9588 Apr 01 13:29	25° ♄ 10'06		minimum elong	9593 Oct 11 07:57	26° ♄ 38'55	0°20'41
max. Earth dist.	9588 Apr 12 01:30	27° ♄ 31'42	6.29246 AU	max. Earth dist.	9593 Oct 13 20:01	27° ♄ 13'56	6.07915 AU
				morning rise	9593 Oct 25 00:16	29° ♄ 49'43	
conjunction	9588 Apr 14 08:15	28° ♄ 02'36	-0°21'47		9593 Oct 25 18:05	0° ♄	
minimum elong	9588 Apr 14 08:14	28° ♄ 02'35	0°21'56		9594 Jan 09 01:39	15° ♄	
	9588 Apr 23 00:18	0° ♄		retrograde	9594 Mar 01 19:14	19° ♄ 02'55	
morning rise	9588 Apr 27 02:00	0° ♄ 54'56			9594 Apr 23 01:08	15° ♄	
	9588 Jul 08 08:21	15° ♄		min. Earth dist.	9594 Apr 29 02:24	14° ♄ 11'23	4.16210 AU
retrograde	9588 Aug 29 15:11	19° ♄ 00'07		opposition	9594 Apr 30 14:15	13° ♄ 59'18	0°46'59
	9588 Oct 22 07:10	15° ♄		direct	9594 Jun 28 21:37	9° ♄ 00'11	
opposition	9588 Oct 29 06:15	14° ♄ 06'30	-0°47'15		9594 Sep 01 08:10	15° ♄	
min. Earth dist.	9588 Oct 30 20:02	13° ♄ 54'19	4.20893 AU	evening set	9594 Nov 02 07:40	27° ♄ 33'04	
direct	9588 Dec 29 11:46	9° ♄ 08'03			9594 Nov 13 05:59	0° ♄	
	9589 Mar 03 10:33	15° ♄		conjunction	9594 Nov 15 20:39	0° ♄ 35'10	0°39'43
evening set	9589 May 04 04:47	27° ♄ 50'04		minimum elong	9594 Nov 15 20:38	0° ♄ 35'09	0°40'01
	9589 May 13 11:25	0° ♄		max. Earth dist.	9594 Nov 17 20:01	1° ♄ 01'44	6.24767 AU
max. Earth dist.	9589 May 15 02:32	0° ♄ 22'54	6.12424 AU	morning rise	9594 Nov 29 09:23	3° ♄ 36'45	
conjunction	9589 May 17 00:38	0° ♄ 49'55	-0°39'53				

retrograde	9595 Apr 02 20:02	21° \mathbb{A} 37'11		9601 Jan 30 11:00	15° \mathbb{B}	
min. Earth dist.	9595 Jun 01 02:26	16° \mathbb{A} 44'01	4.32721 AU	9601 Apr 27 10:20	0° \mathbb{B}	
opposition	9595 Jun 02 02:15	16° \mathbb{A} 36'07	1°05'02	evening set	9601 May 08 20:39	2° \mathbb{B} 38'28
direct	9595 Aug 01 16:47	11° \mathbb{A} 35'23		max. Earth dist.	9601 May 19 22:45	5° \mathbb{B} 14'34 6.10300 AU
evening set	9595 Dec 05 16:11	29° \mathbb{A} 22'38				
	9595 Dec 08 13:14	0° \mathbb{B}		conjunction	9601 May 21 16:58	5° \mathbb{B} 39'25 -0°41'30
				minimum elong	9601 May 21 16:57	5° \mathbb{B} 39'25 0°41'49
conjunction	9595 Dec 19 00:40	2° \mathbb{B} 16'40 0°45'38		morning rise	9601 Jun 03 13:43	8° \mathbb{B} 40'57
minimum elong	9595 Dec 19 00:40	2° \mathbb{B} 16'40 0°45'59		retrograde	9601 Oct 10 01:20	28° \mathbb{B} 10'06
max. Earth dist.	9595 Dec 19 23:23	2° \mathbb{B} 29'02 6.39675 AU		opposition	9601 Dec 09 02:10	23° \mathbb{B} 14'13 -1°07'34
morning rise	9596 Jan 01 07:32	5° \mathbb{B} 09'45		min. Earth dist.	9601 Dec 09 23:38	23° \mathbb{B} 07'10 4.02500 AU
retrograde	9596 May 02 04:30	22° \mathbb{B} 15'11				
opposition	9596 Jul 01 19:59	17° \mathbb{B} 17'31 1°03'22				
min. Earth dist.	9596 Jul 01 14:33	17° \mathbb{B} 19'17 4.45005 AU				
direct	9596 Sep 01 14:44	12° \mathbb{B} 16'05				
evening set	9597 Jan 05 03:39	29° \mathbb{B} 34'06				
	9597 Jan 07 04:18	0° \mathbb{B}				
conjunction	9597 Jan 18 06:54	2° \mathbb{B} 22'41 0°38'35				
minimum elong	9597 Jan 18 06:55	2° \mathbb{B} 22'41 0°38'54				
max. Earth dist.	9597 Jan 17 23:00	2° \mathbb{B} 18'27 6.48472 AU				
morning rise	9597 Jan 31 08:17	5° \mathbb{B} 10'15				
	9597 Mar 22 05:39	15° \mathbb{B}				
retrograde	9597 May 31 21:07	21° \mathbb{B} 48'13				
opposition	9597 Jul 31 18:56	16° \mathbb{B} 53'21 0°45'09				
min. Earth dist.	9597 Aug 01 09:21	16° \mathbb{B} 48'43 4.49882 AU				
	9597 Aug 15 20:24	15° \mathbb{B}				
direct	9597 Oct 02 07:45	11° \mathbb{B} 51'48				
	9597 Nov 18 17:21	15° \mathbb{B}				
evening set	9598 Feb 04 12:58	29° \mathbb{B} 01'47				
	9598 Feb 09 01:58	0° \mathbb{B}				
max. Earth dist.	9598 Feb 16 03:16	1° \mathbb{B} 30'51 6.49087 AU				
conjunction	9598 Feb 17 12:01	1° \mathbb{B} 48'27 0°21'29				
minimum elong	9598 Feb 17 12:02	1° \mathbb{B} 48'27 0°21'40				
morning rise	9598 Mar 02 08:48	4° \mathbb{B} 34'10				
retrograde	9598 Jun 30 22:26	21° \mathbb{B} 14'58				
opposition	9598 Aug 30 23:48	16° \mathbb{B} 21'43 0°15'24				
min. Earth dist.	9598 Sep 01 05:29	16° \mathbb{B} 12'14 4.46250 AU				
direct	9598 Nov 01 15:04	11° \mathbb{B} 20'38				
desc. node	9599 Feb 23 05:10	26° \mathbb{B} 15'16				
evening set	9599 Mar 06 19:37	28° \mathbb{B} 44'56				
	9599 Mar 12 13:21	0° \mathbb{B}				
max. Earth dist.	9599 Mar 17 13:08	1° \mathbb{B} 05'37 6.41398 AU				
conjunction	9599 Mar 19 15:27	1° \mathbb{B} 33'13 -0°01'31				
minimum elong	9599 Mar 19 15:28	1° \mathbb{B} 33'13 0°01'30				
behind sun begin	9599 Mar 19 07:29	1° \mathbb{B} 28'52				
behind sun end	9599 Mar 19 23:27	1° \mathbb{B} 37'34				
morning rise	9599 Apr 01 09:41	4° \mathbb{B} 20'55				
retrograde	9599 Aug 01 13:21	21° \mathbb{B} 34'53				
opposition	9599 Oct 01 11:08	16° \mathbb{B} 41'58 -0°19'32				
min. Earth dist.	9599 Oct 03 02:35	16° \mathbb{B} 29'21 4.34908 AU				
direct	9599 Dec 02 15:22	11° \mathbb{B} 41'57				
evening set	9600 Apr 05 23:03	29° \mathbb{B} 41'15				
	9600 Apr 07 08:26	0° \mathbb{B}				
max. Earth dist.	9600 Apr 16 10:12	2° \mathbb{B} 03'04 6.27183 AU				
conjunction	9600 Apr 18 17:43	2° \mathbb{B} 34'31 -0°24'48				
minimum elong	9600 Apr 18 17:42	2° \mathbb{B} 34'31 0°24'58				
morning rise	9600 May 01 11:42	5° \mathbb{B} 27'46				
	9600 Jun 15 10:13	15° \mathbb{B}				
retrograde	9600 Sep 03 10:09	23° \mathbb{B} 41'52				
opposition	9600 Nov 03 00:49	18° \mathbb{B} 48'01 -0°50'59				
min. Earth dist.	9600 Nov 04 12:38	18° \mathbb{B} 36'26 4.18711 AU				
	9600 Dec 06 14:42	15° \mathbb{B}				
direct	9601 Jan 03 01:41	13° \mathbb{B} 49'49				