

asc. node	14100 Feb 16 22:15	28° \mathbb{M} 57'53	direct	14105 Dec 17 20:19	3° \mathcal{B} 13'20	
retrograde	14100 Mar 07 03:39	29° \mathbb{M} 31'03	desc. node	14106 Feb 12 03:42	7° \mathcal{B} 33'29	
min. Earth dist.	14100 May 04 09:37	24° \mathbb{M} 37'43	3.90995 AU	14106 Mar 26 21:42	15° \mathcal{B}	
opposition	14100 May 05 09:21	24° \mathbb{M} 29'42	0°06'57	evening set	14106 Apr 21 09:56	20° \mathcal{B} 16'36
direct	14100 Jul 02 10:13	19° \mathbb{M} 34'15		max. Earth dist.	14106 May 03 01:20	22° \mathcal{B} 46'05 6.49660 AU
	14100 Sep 25 15:26	0° \mathcal{A}				
evening set	14100 Nov 06 22:42	9° \mathcal{A} 39'34		conjunction	14106 May 04 09:01	23° \mathcal{B} 03'05 -0°03'35
				minimum elong	14106 May 04 09:00	23° \mathcal{B} 03'05 0°04'21
conjunction	14100 Nov 20 11:31	12° \mathcal{A} 55'11	0°15'01	behind sun begin	14106 May 04 01:08	22° \mathcal{B} 58'53
minimum elong	14100 Nov 20 11:30	12° \mathcal{A} 55'11	0°15'59	behind sun end	14106 May 04 16:52	23° \mathcal{B} 07'17
max. Earth dist.	14100 Nov 22 11:37	13° \mathcal{A} 24'12	5.95054 AU	morning rise	14106 May 17 06:26	25° \mathcal{B} 48'53
morning rise	14100 Dec 04 02:00	16° \mathcal{A} 11'26			14106 Jun 06 06:18	0° \mathbb{I}
	14101 Feb 06 06:16	0° \mathcal{B}		retrograde	14106 Sep 15 08:42	12° \mathbb{I} 32'33
retrograde	14101 Apr 13 05:36	6° \mathcal{B} 25'55		opposition	14106 Nov 15 12:39	7° \mathbb{I} 38'34 -0°18'08
min. Earth dist.	14101 Jun 10 04:51	1° \mathcal{B} 35'06	4.01419 AU	min. Earth dist.	14106 Nov 16 17:27	7° \mathbb{I} 29'20 4.46250 AU
opposition	14101 Jun 11 17:35	1° \mathcal{B} 22'39	0°36'43	direct	14107 Jan 16 23:26	2° \mathbb{I} 37'52
	14101 Jun 22 01:06	30° \mathcal{R} \mathcal{A}		evening set	14107 May 21 17:21	19° \mathbb{I} 59'54
direct	14101 Aug 09 05:59	26° \mathcal{A} 25'40		max. Earth dist.	14107 Jun 01 13:02	22° \mathbb{I} 21'46 6.40845 AU
	14101 Sep 25 22:34	0° \mathcal{B}				
evening set	14101 Dec 14 05:11	15° \mathcal{B} 47'09		conjunction	14107 Jun 03 14:12	22° \mathbb{I} 48'44 -0°20'28
				minimum elong	14107 Jun 03 14:11	22° \mathbb{I} 48'44 0°21'30
conjunction	14101 Dec 27 18:25	18° \mathcal{B} 56'11	0°30'39	morning rise	14107 Jun 16 09:36	25° \mathbb{I} 37'09
minimum elong	14101 Dec 27 18:25	18° \mathcal{B} 56'10	0°31'40		14107 Jul 06 20:43	0° \mathcal{C}
max. Earth dist.	14101 Dec 30 06:35	19° \mathcal{B} 31'11	6.09389 AU	retrograde	14107 Oct 17 02:24	12° \mathcal{C} 57'16
morning rise	14102 Jan 10 08:12	22° \mathcal{B} 05'10		opposition	14107 Dec 16 23:32	8° \mathcal{C} 03'36 -0°40'16
	14102 Feb 15 04:08	0° \approx		min. Earth dist.	14107 Dec 18 14:21	7° \mathcal{C} 51'09 4.33811 AU
retrograde	14102 May 17 14:40	11° \approx 09'22		direct	14108 Feb 16 21:23	3° \mathcal{C} 03'29
min. Earth dist.	14102 Jul 15 01:21	6° \approx 18'52	4.18094 AU	evening set	14108 Jun 21 03:22	21° \mathcal{C} 05'58
opposition	14102 Jul 16 14:13	6° \approx 06'31	0°51'03	max. Earth dist.	14108 Jul 01 15:16	23° \mathcal{C} 28'30 6.25615 AU
direct	14102 Sep 14 03:40	1° \approx 07'45				
	14102 Dec 28 12:33	15° \approx		conjunction	14108 Jul 03 23:48	24° \mathcal{C} 00'36 -0°32'15
evening set	14103 Jan 18 08:16	19° \approx 33'02		minimum elong	14108 Jul 03 23:48	24° \mathcal{C} 00'36 0°33'14
				morning rise	14108 Jul 16 19:53	26° \mathcal{C} 55'20
conjunction	14103 Jan 31 18:45	22° \approx 33'12	0°34'52		14108 Jul 30 14:13	0° \mathcal{Q}
minimum elong	14103 Jan 31 18:45	22° \approx 33'13	0°35'36		14108 Nov 05 14:29	15° \mathcal{Q}
max. Earth dist.	14103 Feb 02 18:26	22° \approx 59'53	6.26901 AU	retrograde	14108 Nov 19 05:57	15° \mathcal{Q} 17'44
morning rise	14103 Feb 14 05:05	25° \approx 32'55			14108 Dec 02 20:46	15° \mathcal{R} \mathcal{Q}
	14103 Mar 06 16:43	0° \mathcal{H}		opposition	14109 Jan 18 14:50	10° \mathcal{Q} 23'18 -0°51'51
retrograde	14103 Jun 18 11:07	13° \mathcal{H} 25'40		min. Earth dist.	14109 Jan 20 03:30	10° \mathcal{Q} 11'22 4.16759 AU
opposition	14103 Aug 17 23:16	8° \mathcal{H} 24'59	0°48'02	direct	14109 Mar 20 10:26	5° \mathcal{Q} 24'27
min. Earth dist.	14103 Aug 16 22:42	8° \mathcal{H} 33'06	4.34914 AU		14109 Jun 12 02:05	15° \mathcal{Q}
direct	14103 Oct 17 18:35	3° \mathcal{H} 25'00		evening set	14109 Jul 24 11:56	24° \mathcal{Q} 21'37
evening set	14104 Feb 20 03:32	21° \mathcal{H} 02'12		max. Earth dist.	14109 Aug 04 15:06	26° \mathcal{Q} 58'46 6.08135 AU
conjunction	14104 Mar 04 10:20	23° \mathcal{H} 54'46	0°28'15	conjunction	14109 Aug 06 11:03	27° \mathcal{Q} 24'43 -0°34'23
minimum elong	14104 Mar 04 10:21	23° \mathcal{H} 54'46	0°28'29	minimum elong	14109 Aug 06 11:03	27° \mathcal{Q} 24'44 0°35'04
max. Earth dist.	14104 Mar 05 11:06	24° \mathcal{H} 08'12	6.41783 AU		14109 Aug 17 10:09	0° \mathbb{N}
morning rise	14104 Mar 17 15:49	26° \mathcal{H} 46'32		morning rise	14109 Aug 19 10:28	0° \mathbb{N} 28'24
	14104 Apr 01 20:30	0° \mathcal{Y}		retrograde	14109 Dec 26 01:55	20° \mathbb{N} 05'38
retrograde	14104 Jul 17 14:38	13° \mathcal{Y} 47'28		opposition	14110 Feb 23 19:58	15° \mathbb{N} 09'30 -0°46'23
opposition	14104 Sep 16 13:37	8° \mathcal{Y} 49'39	0°31'44	min. Earth dist.	14110 Feb 24 18:19	15° \mathbb{N} 02'08 4.00308 AU
min. Earth dist.	14104 Sep 16 06:18	8° \mathcal{Y} 52'02	4.46872 AU	direct	14110 Apr 24 07:06	10° \mathbb{N} 12'40
direct	14104 Nov 17 08:42	3° \mathcal{Y} 49'08		evening set	14110 Aug 29 05:34	0° \mathcal{Q} 02'02
evening set	14105 Mar 22 05:14	20° \mathcal{Y} 57'37			14110 Aug 29 02:11	0° \mathcal{Q}
conjunction	14105 Apr 04 07:47	23° \mathcal{Y} 45'23	0°14'09	conjunction	14110 Sep 11 09:37	3° \mathcal{Q} 13'50 -0°24'13
minimum elong	14105 Apr 04 07:48	23° \mathcal{Y} 45'24	0°13'49	minimum elong	14110 Sep 11 09:38	3° \mathcal{Q} 13'50 0°24'16
behind sun begin	14105 Apr 04 03:38	23° \mathcal{Y} 43'11		max. Earth dist.	14110 Sep 10 17:07	3° \mathcal{Q} 03'48 5.94273 AU
behind sun end	14105 Apr 04 11:57	23° \mathcal{Y} 47'36		morning rise	14110 Sep 24 15:17	6° \mathcal{Q} 26'40
max. Earth dist.	14105 Apr 04 02:23	23° \mathcal{Y} 42'31	6.50009 AU	retrograde	14111 Feb 02 16:50	27° \mathcal{Q} 03'31
morning rise	14105 Apr 17 08:49	26° \mathcal{Y} 32'21		opposition	14111 Apr 03 00:59	22° \mathcal{Q} 04'44 -0°22'17
	14105 May 03 22:03	0° \mathcal{B}		min. Earth dist.	14111 Apr 02 22:09	22° \mathcal{Q} 05'41 3.90554 AU
retrograde	14105 Aug 16 06:14	13° \mathcal{B} 09'27		direct	14111 May 31 10:01	17° \mathcal{Q} 09'21
opposition	14105 Oct 16 09:33	8° \mathcal{B} 14'05	0°07'49		14111 Sep 04 10:35	0° \mathbb{M}
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



















































































































































conjunction	14111 Oct 19 07:59	10° \mathbb{M} 42'03	-0°04'07	behind sun end	14117 Apr 08 17:57	28° Υ 00'23	
minimum elong	14111 Oct 19 07:59	10° \mathbb{M} 42'03	0°03'30	max. Earth dist.	14117 Apr 08 04:17	27° Υ 53'07	6.50808 AU
behind sun begin	14111 Oct 18 23:43	10° \mathbb{M} 37'01			14117 Apr 18 02:10	0° \mathcal{B}	
behind sun end	14111 Oct 19 16:15	10° \mathbb{M} 47'06		morning rise	14117 Apr 21 12:28	0° \mathcal{B} 43'42	
max. Earth dist.	14111 Oct 20 05:48	10° \mathbb{M} 55'25	5.89663 AU		14117 Jul 11 16:37	15° \mathcal{B}	
morning rise	14111 Nov 01 19:36	13° \mathbb{M} 59'50		retrograde	14117 Aug 20 06:45	17° \mathcal{B} 18'43	
	14111 Nov 05 22:54	15° \mathbb{M}			14117 Sep 29 00:17	15° $\mathcal{R}\mathcal{B}$	
asc. node	14111 Dec 31 00:52	27° \mathbb{M} 09'57		opposition	14117 Oct 20 11:55	12° \mathcal{B} 23'31	0°04'18
	14112 Jan 16 07:05	0° \mathcal{A}		min. Earth dist.	14117 Oct 21 02:30	12° \mathcal{B} 18'50	4.51204 AU
retrograde	14112 Mar 12 09:19	4° \mathcal{A} 49'10		direct	14117 Dec 21 22:52	7° \mathcal{B} 22'44	
	14112 May 09 02:03	30° $\mathcal{R}\mathbb{M}$		desc. node	14117 Dec 23 04:11	7° \mathcal{B} 22'52	
opposition	14112 May 10 15:04	29° \mathbb{M} 47'27	0°11'39		14118 Mar 08 22:12	15° \mathcal{B}	
min. Earth dist.	14112 May 09 13:44	29° \mathbb{M} 56'03	3.91716 AU	evening set	14118 Apr 25 12:36	24° \mathcal{B} 25'47	
direct	14112 Jul 07 16:59	24° \mathbb{M} 51'52		max. Earth dist.	14118 May 07 00:48	26° \mathcal{B} 53'42	6.49319 AU
	14112 Sep 02 23:30	0° \mathcal{A}					
evening set	14112 Nov 12 03:52	14° \mathcal{A} 53'28		conjunction	14118 May 08 11:09	27° \mathcal{B} 12'10	-0°05'59
				minimum elong	14118 May 08 11:09	27° \mathcal{B} 12'10	0°06'48
conjunction	14112 Nov 25 17:05	18° \mathcal{A} 08'36	0°17'44	behind sun begin	14118 May 08 03:42	27° \mathcal{B} 08'11	
minimum elong	14112 Nov 25 17:04	18° \mathcal{A} 08'35	0°18'45	behind sun end	14118 May 08 18:36	27° \mathcal{B} 16'09	
max. Earth dist.	14112 Nov 27 21:11	18° \mathcal{A} 39'54	5.96421 AU	morning rise	14118 May 21 08:06	29° \mathcal{B} 57'54	
morning rise	14112 Dec 09 07:40	21° \mathcal{A} 24'14			14118 May 21 12:01	0° \mathbb{I}	
	14113 Jan 16 01:48	0° \mathcal{B}		retrograde	14118 Sep 19 13:39	16° \mathbb{I} 43'32	
retrograde	14113 Apr 18 04:06	11° \mathcal{B} 31'02		opposition	14118 Nov 19 16:51	11° \mathbb{I} 49'37	-0°21'26
min. Earth dist.	14113 Jun 15 02:46	6° \mathcal{B} 40'35	4.03284 AU	min. Earth dist.	14118 Nov 21 00:28	11° \mathbb{I} 39'31	4.45316 AU
opposition	14113 Jun 16 16:44	6° \mathcal{B} 27'45	0°39'45	direct	14119 Jan 21 04:00	6° \mathbb{I} 48'54	
direct	14113 Aug 14 07:16	1° \mathcal{B} 30'34		evening set	14119 May 25 21:13	24° \mathbb{I} 14'02	
evening set	14113 Dec 19 05:16	20° \mathcal{B} 45'17		max. Earth dist.	14119 Jun 05 13:03	26° \mathbb{I} 34'18	6.39359 AU
conjunction	14114 Jan 01 18:08	23° \mathcal{B} 53'12	0°31'56	conjunction	14119 Jun 07 17:45	27° \mathbb{I} 03'18	-0°22'25
minimum elong	14114 Jan 01 18:08	23° \mathcal{B} 53'12	0°32'57	minimum elong	14119 Jun 07 17:44	27° \mathbb{I} 03'18	0°23'28
max. Earth dist.	14114 Jan 04 04:43	24° \mathcal{B} 27'07	6.11563 AU	morning rise	14119 Jun 20 13:10	29° \mathbb{I} 52'16	
morning rise	14114 Jan 15 07:46	27° \mathcal{B} 01'05			14119 Jun 21 03:17	0° \mathcal{E}	
	14114 Jan 28 11:12	0° \approx		retrograde	14119 Oct 21 12:32	17° \mathcal{E} 18'35	
	14114 Apr 28 03:23	15° \approx		opposition	14119 Dec 21 08:37	12° \mathcal{E} 24'48	-0°42'31
retrograde	14114 May 22 04:04	15° \approx 55'37		min. Earth dist.	14119 Dec 22 23:47	12° \mathcal{E} 12'11	4.31840 AU
	14114 Jun 15 01:26	15° $\mathcal{R}\approx$		direct	14120 Feb 21 03:22	7° \mathcal{E} 24'39	
min. Earth dist.	14114 Jul 19 17:42	11° \approx 04'56	4.20381 AU	evening set	14120 Jun 25 11:47	25° \mathcal{E} 33'32	
opposition	14114 Jul 21 05:30	10° \approx 52'56	0°51'36	max. Earth dist.	14120 Jul 06 01:03	27° \mathcal{E} 57'31	6.23301 AU
direct	14114 Sep 18 22:51	5° \approx 53'57					
	14114 Dec 10 02:59	15° \approx		conjunction	14120 Jul 08 08:32	28° \mathcal{E} 29'12	-0°33'08
evening set	14115 Jan 23 00:47	24° \approx 12'12		minimum elong	14120 Jul 08 08:32	28° \mathcal{E} 29'12	0°34'07
					14120 Jul 14 23:31	0° \mathcal{O}	
conjunction	14115 Feb 05 10:57	27° \approx 11'15	0°34'31	morning rise	14120 Jul 21 04:45	1° \mathcal{O} 24'58	
minimum elong	14115 Feb 05 10:58	27° \approx 11'15	0°35'11		14120 Sep 26 16:40	15° \mathcal{O}	
max. Earth dist.	14115 Feb 07 09:42	27° \approx 37'17	6.29152 AU	retrograde	14120 Nov 24 01:44	19° \mathcal{O} 57'13	
morning rise	14115 Feb 18 20:30	0° \mathcal{H} 09'44		opposition	14121 Jan 23 08:03	15° \mathcal{O} 02'37	-0°52'10
	14115 Feb 18 02:52	0° \mathcal{H}			14121 Jan 23 16:04	15° $\mathcal{R}\mathcal{O}$	
retrograde	14115 Jun 22 17:47	17° \mathcal{H} 53'58		min. Earth dist.	14121 Jan 24 20:41	14° \mathcal{O} 50'41	4.14251 AU
min. Earth dist.	14115 Aug 21 08:28	13° \mathcal{H} 01'18	4.36973 AU	direct	14121 Mar 24 23:19	10° \mathcal{O} 03'58	
opposition	14115 Aug 22 07:40	12° \mathcal{H} 53'40	0°46'25		14121 May 21 15:26	15° \mathcal{O}	
direct	14115 Oct 22 06:14	7° \mathcal{H} 53'37		evening set	14121 Jul 29 04:04	29° \mathcal{O} 09'27	
evening set	14116 Feb 24 13:29	25° \mathcal{H} 25'12			14121 Aug 01 17:47	0° \mathcal{H}	
				max. Earth dist.	14121 Aug 09 08:21	1° \mathcal{H} 48'12	6.05640 AU
conjunction	14116 Mar 08 19:29	28° \mathcal{H} 16'49	0°26'39	conjunction	14121 Aug 11 03:39	2° \mathcal{H} 13'54	-0°33'44
minimum elong	14116 Mar 08 19:30	28° \mathcal{H} 16'49	0°26'48	minimum elong	14121 Aug 11 03:40	2° \mathcal{H} 13'55	0°34'19
max. Earth dist.	14116 Mar 09 15:30	28° \mathcal{H} 27'37	6.43514 AU	morning rise	14121 Aug 24 04:01	5° \mathcal{H} 19'05	
	14116 Mar 16 18:34	0° Υ		retrograde	14121 Dec 31 04:53	25° \mathcal{H} 07'24	
morning rise	14116 Mar 22 00:26	1° Υ 07'40		opposition	14122 Feb 28 21:58	20° \mathcal{H} 10'56	-0°44'08
retrograde	14116 Jul 21 18:18	18° Υ 02'52		min. Earth dist.	14122 Mar 01 16:58	20° \mathcal{H} 04'39	3.98056 AU
opposition	14116 Sep 20 17:34	13° Υ 05'22	0°28'45	direct	14122 Apr 29 04:06	15° \mathcal{H} 14'19	
min. Earth dist.	14116 Sep 20 13:25	13° Υ 06'42	4.48181 AU		14122 Aug 12 10:17	0° \mathcal{A}	
direct	14116 Nov 21 16:20	8° Υ 04'44		evening set	14122 Sep 03 06:39	5° \mathcal{A} 11'14	
evening set	14117 Mar 26 10:02	25° Υ 10'03					
conjunction	14117 Apr 08 12:09	27° Υ 57'18	0°11'51	conjunction	14122 Sep 16 11:42	8° \mathcal{A} 24'19	-0°21'55
minimum elong	14117 Apr 08 12:09	27° Υ 57'18	0°11'27	minimum elong	14122 Sep 16 11:43	8° \mathcal{A} 24'20	0°21'53
behind sun begin	14117 Apr 08 06:22	27° Υ 54'14		max. Earth dist.	14122 Sep 16 00:41	8° \mathcal{A} 17'36	5.92509 AU

morning rise	14122 Sep 29 18:15	11°♄38'27		opposition	14128 Sep 24 22:08	17°♏22'34	0°25'33
	14122 Dec 31 11:38	0°♍		min. Earth dist.	14128 Sep 24 20:19	17°♏23'09	4.49341 AU
retrograde	14123 Feb 08 03:35	2°♍22'41		direct	14128 Nov 25 23:16	12°♏21'57	
	14123 Mar 18 21:37	30°♋♄		evening set	14129 Mar 30 15:39	29°♏24'50	
opposition	14123 Apr 08 08:57	27°♄23'31	-0°17'54		14129 Apr 02 09:59	0°♄	
min. Earth dist.	14123 Apr 08 03:41	27°♄25'17	3.89476 AU				
direct	14123 Jun 05 16:01	22°♄28'13		conjunction	14129 Apr 12 17:01	2°♄11'38	0°09'25
	14123 Aug 15 03:04	0°♍		minimum elong	14129 Apr 12 17:01	2°♄11'38	0°08'57
evening set	14123 Oct 11 05:40	12°♍47'06		behind sun begin	14129 Apr 12 10:10	2°♄08'00	
	14123 Oct 20 07:09	15°♍		behind sun end	14129 Apr 12 23:53	2°♄15'17	
				max. Earth dist.	14129 Apr 12 03:47	2°♄04'35	6.51320 AU
conjunction	14123 Oct 24 16:17	16°♍04'24	-0°00'56	morning rise	14129 Apr 25 16:54	4°♄57'40	
minimum elong	14123 Oct 24 16:17	16°♍04'24	0°00'15		14129 Jun 16 02:20	15°♄	
behind sun begin	14123 Oct 24 07:59	15°♍59'21		retrograde	14129 Aug 24 11:34	21°♄31'51	
behind sun end	14123 Oct 25 00:35	16°♍09'28		opposition	14129 Oct 24 15:53	16°♄36'55	0°00'36
max. Earth dist.	14123 Oct 25 20:03	16°♍21'25	5.89395 AU	min. Earth dist.	14129 Oct 25 10:05	16°♄31'05	4.51045 AU
morning rise	14123 Nov 07 04:41	19°♍22'39		desc. node	14129 Nov 02 10:28	15°♄29'57	
asc. node	14123 Nov 10 11:10	20°♍10'16			14129 Nov 06 11:47	15°♋♄	
	14123 Dec 23 14:04	0°♄		direct	14129 Dec 26 04:27	11°♄36'05	
retrograde	14124 Mar 17 17:12	10°♄11'18			14130 Feb 13 14:29	15°♄	
opposition	14124 May 15 22:35	5°♄09'18	0°16'13	evening set	14130 Apr 29 17:07	28°♄40'27	
min. Earth dist.	14124 May 14 17:55	5°♄19'01	3.92307 AU		14130 May 05 21:41	0°♄	
direct	14124 Jul 12 23:32	0°♄13'37		max. Earth dist.	14130 May 11 01:43	1°♄06'43	6.48491 AU
evening set	14124 Nov 17 11:34	20°♄11'58					
				conjunction	14130 May 12 15:24	1°♄27'00	-0°08'27
conjunction	14124 Dec 01 00:54	23°♄26'32	0°20'18	minimum elong	14130 May 12 15:23	1°♄27'00	0°09'20
minimum elong	14124 Dec 01 00:53	23°♄26'31	0°21'20	behind sun begin	14130 May 12 08:41	1°♄23'24	
max. Earth dist.	14124 Dec 03 06:52	23°♄58'50	5.97784 AU	behind sun end	14130 May 12 22:06	1°♄30'36	
morning rise	14124 Dec 14 15:49	26°♄41'35		morning rise	14130 May 25 11:58	4°♄12'56	
	14124 Dec 28 18:16	0°♄		retrograde	14130 Sep 23 20:39	21°♄02'16	
retrograde	14125 Apr 23 03:26	16°♄40'34		opposition	14130 Nov 23 23:49	16°♄08'25	-0°24'49
min. Earth dist.	14125 Jun 20 02:46	11°♄50'23	4.05244 AU	min. Earth dist.	14130 Nov 25 08:22	15°♄58'00	4.43872 AU
opposition	14125 Jun 21 17:54	11°♄37'08	0°42'28	direct	14131 Jan 25 08:21	11°♄07'44	
direct	14125 Aug 19 11:22	6°♄39'39		evening set	14131 May 30 04:24	28°♄37'46	
evening set	14125 Dec 24 07:06	25°♄47'06			14131 Jun 05 10:03	0°♄	
				max. Earth dist.	14131 Jun 09 19:22	0°♄58'10	6.37388 AU
conjunction	14126 Jan 06 19:52	28°♄53'52	0°32'58				
minimum elong	14126 Jan 06 19:52	28°♄53'52	0°33'57	conjunction	14131 Jun 12 00:51	1°♄27'45	-0°24'21
max. Earth dist.	14126 Jan 09 07:20	29°♄28'07	6.13937 AU	minimum elong	14131 Jun 12 00:50	1°♄27'45	0°25'24
	14126 Jan 11 14:45	0°♄		morning rise	14131 Jun 24 20:10	4°♄17'27	
morning rise	14126 Jan 20 08:55	2°♄00'25		retrograde	14131 Oct 26 05:10	21°♄51'49	
	14126 Mar 24 21:43	15°♄		opposition	14131 Dec 25 22:35	16°♄57'59	-0°44'42
retrograde	14126 May 26 19:16	20°♄44'23		min. Earth dist.	14131 Dec 27 15:11	16°♄44'54	4.29446 AU
min. Earth dist.	14126 Jul 24 11:12	15°♄53'33	4.22906 AU	direct	14132 Feb 25 14:37	11°♄57'58	
opposition	14126 Jul 25 21:58	15°♄41'56	0°51'45		14132 Jun 28 23:25	0°♄	
	14126 Jul 31 04:00	15°♋♄		evening set	14132 Jun 30 01:08	0°♄14'37	
direct	14126 Sep 23 19:37	10°♄42'47		max. Earth dist.	14132 Jul 10 13:41	2°♄39'05	6.20663 AU
	14126 Nov 16 22:20	15°♄					
evening set	14127 Jan 27 18:27	28°♄53'10		conjunction	14132 Jul 12 22:04	3°♄11'27	-0°33'53
	14127 Feb 01 19:34	0°♄		minimum elong	14132 Jul 12 22:04	3°♄11'27	0°34'50
				morning rise	14132 Jul 25 18:50	6°♄08'31	
conjunction	14127 Feb 10 03:57	1°♄50'57	0°33'56		14132 Sep 04 13:24	15°♄	
minimum elong	14127 Feb 10 03:57	1°♄50'57	0°34'31	retrograde	14132 Nov 29 01:51	24°♄51'53	
max. Earth dist.	14127 Feb 11 23:15	2°♄14'56	6.31594 AU	opposition	14133 Jan 28 06:58	19°♄57'02	-0°52'10
morning rise	14127 Feb 23 12:59	4°♄48'10		min. Earth dist.	14133 Jan 29 17:16	19°♄45'50	4.11573 AU
retrograde	14127 Jun 27 00:33	22°♄23'24			14133 Mar 25 22:22	15°♋♄	
opposition	14127 Aug 26 16:34	17°♄23'25	0°44'28	direct	14133 Mar 29 16:47	14°♄58'36	
min. Earth dist.	14127 Aug 25 19:35	17°♄30'19	4.39132 AU		14133 Apr 02 11:30	15°♄	
direct	14127 Oct 26 18:52	12°♄23'14			14133 Jul 15 23:17	0°♄	
evening set	14128 Feb 28 23:28	29°♄49'06		evening set	14133 Aug 03 02:08	4°♄12'57	
	14128 Feb 29 19:49	0°♏		max. Earth dist.	14133 Aug 14 11:43	6°♄55'41	6.03175 AU
conjunction	14128 Mar 13 05:01	2°♏39'50	0°24'51	conjunction	14133 Aug 16 02:28	7°♄18'50	-0°32'47
minimum elong	14128 Mar 13 05:02	2°♏39'51	0°24'55	minimum elong	14133 Aug 16 02:29	7°♄18'50	0°33'17
max. Earth dist.	14128 Mar 13 22:21	2°♏49'10	6.45232 AU	morning rise	14133 Aug 29 03:32	10°♄25'28	
morning rise	14128 Mar 26 09:06	5°♏29'44			14133 Dec 20 20:03	0°♄	
retrograde	14128 Jul 25 21:09	22°♏19'41		retrograde	14134 Jan 05 16:15	0°♄24'30	

	14134 Jan 21 10:21	30° \mathbb{R} \mathbb{M}			14140 Feb 13 17:42	0° \mathbb{Y}	
opposition	14134 Mar 06 05:50	25° \mathbb{M} 27'43 -0°41'22	evening set		14140 Mar 04 07:00	4° \mathbb{Y} 05'51	
min. Earth dist.	14134 Mar 06 22:33	25° \mathbb{M} 22'10 3.96053 AU					
direct	14134 May 04 08:37	20° \mathbb{M} 31'21	conjunction		14140 Mar 17 11:51	6° \mathbb{Y} 55'45 0°22'58	
	14134 Jul 24 05:27	0° \mathbb{L}	minimum elong		14140 Mar 17 11:51	6° \mathbb{Y} 55'45 0°22'57	
evening set	14134 Sep 08 13:09	10° \mathbb{L} 34'30	max. Earth dist.		14140 Mar 17 23:45	7° \mathbb{Y} 02'08 6.46714 AU	
			morning rise		14140 Mar 30 15:24	9° \mathbb{Y} 44'51	
conjunction	14134 Sep 21 19:06	13° \mathbb{L} 48'39 -0°19'19	retrograde		14140 Jul 29 22:43	26° \mathbb{Y} 30'30	
minimum elong	14134 Sep 21 19:07	13° \mathbb{L} 48'40 0°19'10	opposition		14140 Sep 29 00:42	21° \mathbb{Y} 33'43 0°22'17	
max. Earth dist.	14134 Sep 21 13:28	13° \mathbb{L} 45'13 5.91187 AU	min. Earth dist.		14140 Sep 29 02:07	21° \mathbb{Y} 33'16 4.50162 AU	
morning rise	14134 Oct 05 02:41	17° \mathbb{L} 03'53	direct		14140 Nov 30 04:06	16° \mathbb{Y} 33'01	
	14134 Dec 02 01:04	0° \mathbb{M}			14141 Mar 17 15:16	0° \mathbb{B}	
retrograde	14135 Feb 13 15:56	7° \mathbb{M} 52'58	evening set		14141 Apr 03 19:27	3° \mathbb{B} 34'40	
opposition	14135 Apr 13 20:54	2° \mathbb{M} 53'23 -0°13'08					
min. Earth dist.	14135 Apr 13 11:02	2° \mathbb{M} 56'42 3.89041 AU	conjunction		14141 Apr 16 20:30	6° \mathbb{B} 21'15 0°06'59	
	14135 May 06 20:47	30° \mathbb{R} \mathbb{L}	minimum elong		14141 Apr 16 20:31	6° \mathbb{B} 21'16 0°06'28	
direct	14135 Jun 11 00:22	27° \mathbb{L} 58'11	behind sun begin		14141 Apr 16 12:58	6° \mathbb{B} 17'16	
	14135 Jul 15 23:06	0° \mathbb{M}	behind sun end		14141 Apr 17 04:03	6° \mathbb{B} 25'16	
asc. node	14135 Sep 16 20:02	11° \mathbb{M} 14'05	max. Earth dist.		14141 Apr 16 04:18	6° \mathbb{B} 12'37 6.51428 AU	
	14135 Oct 03 01:00	15° \mathbb{M}	morning rise		14141 Apr 29 19:43	9° \mathbb{B} 07'03	
evening set	14135 Oct 16 16:23	18° \mathbb{M} 17'02			14141 May 28 11:28	15° \mathbb{B}	
			retrograde		14141 Aug 28 14:00	25° \mathbb{B} 41'46	
conjunction	14135 Oct 30 03:29	21° \mathbb{M} 34'23 0°02'24	desc. node		14141 Sep 15 01:13	25° \mathbb{B} 13'35	
minimum elong	14135 Oct 30 03:27	21° \mathbb{M} 34'22 0°03'09	opposition		14141 Oct 28 19:01	20° \mathbb{B} 47'06 -0°03'03	
behind sun begin	14135 Oct 29 19:09	21° \mathbb{M} 29'18	min. Earth dist.		14141 Oct 29 15:17	20° \mathbb{B} 40'37 4.50445 AU	
behind sun end	14135 Oct 30 11:46	21° \mathbb{M} 39'26	direct		14141 Dec 30 07:15	15° \mathbb{B} 46'20	
max. Earth dist.	14135 Oct 31 11:24	21° \mathbb{M} 53'54 5.89888 AU			14142 Apr 20 05:09	0° \mathbb{I}	
morning rise	14135 Nov 12 16:35	24° \mathbb{M} 52'38	evening set		14142 May 03 21:15	2° \mathbb{I} 53'23	
	14135 Dec 04 05:19	0° \mathbb{X}	max. Earth dist.		14142 May 15 01:30	5° \mathbb{I} 17'49 6.47213 AU	
retrograde	14136 Mar 23 00:02	15° \mathbb{X} 37'00					
min. Earth dist.	14136 May 19 23:35	10° \mathbb{X} 45'16 3.93678 AU	conjunction		14142 May 16 19:04	5° \mathbb{I} 40'16 -0°10'53	
opposition	14136 May 21 07:04	10° \mathbb{X} 34'35 0°20'45	minimum elong		14142 May 16 19:04	5° \mathbb{I} 40'16 0°11'48	
direct	14136 Jul 18 09:56	5° \mathbb{X} 38'39	behind sun begin		14142 May 16 13:28	5° \mathbb{I} 37'16	
evening set	14136 Nov 22 19:25	25° \mathbb{X} 30'34	behind sun end		14142 May 17 00:40	5° \mathbb{I} 43'17	
			morning rise		14142 May 29 15:29	8° \mathbb{I} 26'36	
conjunction	14136 Dec 06 08:57	28° \mathbb{X} 44'10 0°22'45	retrograde		14142 Sep 28 07:01	25° \mathbb{I} 21'18	
minimum elong	14136 Dec 06 08:56	28° \mathbb{X} 44'10 0°23'48	opposition		14142 Nov 28 07:40	20° \mathbb{I} 27'34 -0°28'04	
max. Earth dist.	14136 Dec 08 18:29	29° \mathbb{X} 18'27 5.99893 AU	min. Earth dist.		14142 Nov 29 18:55	20° \mathbb{I} 16'16 4.41984 AU	
	14136 Dec 11 16:18	0° \mathbb{Z}	direct		14143 Jan 29 15:18	15° \mathbb{I} 26'57	
morning rise	14136 Dec 19 23:36	1° \mathbb{Z} 58'05			14143 May 20 11:09	0° \mathbb{D}	
retrograde	14137 Apr 28 01:48	21° \mathbb{Z} 46'16	evening set		14143 Jun 03 12:34	3° \mathbb{D} 03'21	
min. Earth dist.	14137 Jun 25 02:30	16° \mathbb{Z} 55'57 4.07833 AU	max. Earth dist.		14143 Jun 14 01:44	5° \mathbb{D} 23'30 6.35026 AU	
opposition	14137 Jun 26 17:28	16° \mathbb{Z} 42'47 0°44'51					
direct	14137 Aug 24 15:11	11° \mathbb{Z} 45'01	conjunction		14143 Jun 16 09:03	5° \mathbb{D} 54'15 -0°26'11	
	14137 Dec 26 03:00	0° \mathbb{A}	minimum elong		14143 Jun 16 09:02	5° \mathbb{D} 54'15 0°27'13	
evening set	14137 Dec 29 06:53	0° \mathbb{A} 43'08	morning rise		14143 Jun 29 04:27	8° \mathbb{D} 44'56	
			retrograde		14143 Oct 30 21:39	26° \mathbb{D} 28'44	
conjunction	14138 Jan 11 19:11	3° \mathbb{A} 48'27 0°33'47	opposition		14143 Dec 30 14:09	21° \mathbb{D} 34'51 -0°46'39	
minimum elong	14138 Jan 11 19:11	3° \mathbb{A} 48'27 0°34'44	min. Earth dist.		14144 Jan 01 05:47	21° \mathbb{D} 22'03 4.26778 AU	
max. Earth dist.	14138 Jan 14 05:36	4° \mathbb{A} 21'51 6.16745 AU	direct		14144 Mar 01 00:57	16° \mathbb{D} 35'04	
morning rise	14138 Jan 25 07:48	6° \mathbb{A} 53'32			14144 Jun 12 06:56	0° \mathbb{Q}	
	14138 Mar 03 19:23	15° \mathbb{A}	evening set		14144 Jul 04 16:41	5° \mathbb{Q} 00'33	
retrograde	14138 May 31 05:25	25° \mathbb{A} 25'46	max. Earth dist.		14144 Jul 15 08:02	7° \mathbb{Q} 27'31 6.17909 AU	
min. Earth dist.	14138 Jul 29 01:45	20° \mathbb{A} 34'50 4.25676 AU					
opposition	14138 Jul 30 11:36	20° \mathbb{A} 23'32 0°51'35	conjunction		14144 Jul 17 13:59	7° \mathbb{Q} 58'42 -0°34'26	
direct	14138 Sep 28 13:02	15° \mathbb{A} 24'09	minimum elong		14144 Jul 17 13:59	7° \mathbb{Q} 58'42 0°35'20	
	14139 Jan 16 11:31	0° \mathbb{H}	morning rise		14144 Jul 30 11:09	10° \mathbb{Q} 57'08	
evening set	14139 Feb 01 08:54	3° \mathbb{H} 26'11			14144 Aug 17 08:01	15° \mathbb{Q}	
			retrograde		14144 Dec 04 06:48	29° \mathbb{Q} 52'06	
conjunction	14139 Feb 14 17:51	6° \mathbb{H} 22'42 0°33'09	opposition		14145 Feb 02 08:34	24° \mathbb{Q} 57'07 -0°51'48	
minimum elong	14139 Feb 14 17:52	6° \mathbb{H} 22'43 0°33'41	min. Earth dist.		14145 Feb 03 17:43	24° \mathbb{Q} 46'16 4.08956 AU	
max. Earth dist.	14139 Feb 16 09:46	6° \mathbb{H} 44'41 6.34111 AU	direct		14145 Apr 03 14:48	19° \mathbb{Q} 59'03	
morning rise	14139 Feb 28 02:04	9° \mathbb{H} 18'34			14145 Jun 27 11:26	0° \mathbb{M}	
retrograde	14139 Jul 01 05:37	26° \mathbb{H} 45'03	evening set		14145 Aug 08 02:22	9° \mathbb{M} 21'51	
opposition	14139 Aug 30 22:56	21° \mathbb{H} 45'30 0°42'21	max. Earth dist.		14145 Aug 19 16:28	12° \mathbb{M} 08'07 6.00951 AU	
min. Earth dist.	14139 Aug 30 05:09	21° \mathbb{H} 51'19 4.41209 AU					
direct	14139 Oct 31 06:08	16° \mathbb{H} 45'13	conjunction		14145 Aug 21 03:27	12° \mathbb{M} 29'06 -0°31'34	

minimum elong	14145 Aug 21 03:28	12° \mathbb{M} 29'06	0°31'59			14151 Jun 08 15:25	0° Υ	
morning rise	14145 Sep 03 05:26	15° \mathbb{M} 37'09		retrograde		14151 Jul 05 08:42	1° Υ 06'19	
	14145 Nov 09 18:55	0° $\underline{\mathbf{A}}$				14151 Aug 01 00:03	30° \mathbb{R} \mathbb{H}	
retrograde	14146 Jan 11 02:55	5° $\underline{\mathbf{A}}$ 45'40		opposition		14151 Sep 04 04:32	26° \mathbb{H} 07'09	0°40'01
opposition	14146 Mar 11 15:13	0° $\underline{\mathbf{A}}$ 48'35	-0°38'13	min. Earth dist.		14151 Sep 03 12:44	26° \mathbb{H} 12'19	4.42813 AU
min. Earth dist.	14146 Mar 12 03:23	0° $\underline{\mathbf{A}}$ 44'32	3.94479 AU	direct		14151 Nov 04 14:16	21° \mathbb{H} 06'46	
	14146 Mar 17 17:59	30° \mathbb{R} \mathbb{M}				14152 Jan 26 22:57	0° Υ	
direct	14146 May 09 12:51	25° \mathbb{M} 52'31		evening set		14152 Mar 08 14:23	8° Υ 23'43	
	14146 Jun 29 15:19	0° $\underline{\mathbf{A}}$						
evening set	14146 Sep 13 20:50	16° $\underline{\mathbf{A}}$ 00'03		conjunction		14152 Mar 21 18:44	11° Υ 13'01	0°20'57
				minimum elong		14152 Mar 21 18:45	11° Υ 13'02	0°20'51
conjunction	14146 Sep 27 03:27	19° $\underline{\mathbf{A}}$ 14'57	-0°16'33	max. Earth dist.		14152 Mar 22 02:45	11° Υ 17'18	6.47745 AU
minimum elong	14146 Sep 27 03:28	19° $\underline{\mathbf{A}}$ 14'57	0°16'18	morning rise		14152 Apr 03 21:36	14° Υ 01'30	
max. Earth dist.	14146 Sep 27 02:57	19° $\underline{\mathbf{A}}$ 14'38	5.90419 AU			14152 Jul 12 03:03	0° \mathbb{B}	
morning rise	14146 Oct 10 11:58	22° $\underline{\mathbf{A}}$ 30'56		retrograde		14152 Aug 03 01:58	0° \mathbb{B} 44'18	
	14146 Nov 11 06:35	0° \mathbb{M}				14152 Aug 24 22:07	30° \mathbb{R} Υ	
retrograde	14147 Feb 19 02:25	13° \mathbb{M} 22'18		opposition		14152 Oct 03 04:22	25° Υ 47'53	0°18'52
opposition	14147 Apr 19 08:02	8° \mathbb{M} 22'14	-0°08'16	min. Earth dist.		14152 Oct 03 08:55	25° Υ 46'25	4.50568 AU
min. Earth dist.	14147 Apr 18 18:29	8° \mathbb{M} 26'48	3.89164 AU	direct		14152 Dec 04 10:31	20° Υ 47'11	
direct	14147 Jun 16 10:55	3° \mathbb{M} 27'02				14153 Feb 28 04:55	0° \mathbb{B}	
asc. node	14147 Jul 24 08:51	5° \mathbb{M} 49'43		evening set		14153 Apr 08 00:34	7° \mathbb{B} 48'38	
	14147 Sep 14 13:47	15° \mathbb{M}		max. Earth dist.		14153 Apr 20 03:33	10° \mathbb{B} 23'40	6.51175 AU
evening set	14147 Oct 22 01:53	23° \mathbb{M} 43'44						
				conjunction		14153 Apr 21 01:02	10° \mathbb{B} 35'08	0°04'29
conjunction	14147 Nov 04 13:37	27° \mathbb{M} 00'50	0°05'35	minimum elong		14153 Apr 21 01:01	10° \mathbb{B} 35'08	0°03'53
minimum elong	14147 Nov 04 13:37	27° \mathbb{M} 00'50	0°06'25	behind sun begin		14153 Apr 20 17:05	10° \mathbb{B} 30'55	
behind sun begin	14147 Nov 04 05:45	26° \mathbb{M} 56'04		behind sun end		14153 Apr 21 08:57	10° \mathbb{B} 39'21	
behind sun end	14147 Nov 04 21:28	27° \mathbb{M} 05'36		morning rise		14153 May 03 23:56	13° \mathbb{B} 20'53	
max. Earth dist.	14147 Nov 06 03:33	27° \mathbb{M} 23'58	5.90884 AU			14153 May 11 19:49	15° \mathbb{B}	
	14147 Nov 16 20:00	0° \mathbb{A}		desc. node		14153 Jul 27 18:34	28° \mathbb{B} 01'26	
morning rise	14147 Nov 18 02:59	0° \mathbb{A} 18'45		retrograde		14153 Sep 01 20:03	29° \mathbb{B} 57'11	
retrograde	14148 Mar 28 06:04	20° \mathbb{A} 56'49		opposition		14153 Nov 02 00:15	25° \mathbb{B} 02'41	-0°06'45
min. Earth dist.	14148 May 25 04:07	16° \mathbb{A} 05'17	3.95408 AU	min. Earth dist.		14153 Nov 02 23:07	24° \mathbb{B} 55'21	4.49570 AU
opposition	14148 May 26 12:53	15° \mathbb{A} 54'10	0°25'01	direct		14154 Jan 03 12:52	20° \mathbb{B} 01'53	
direct	14148 Jul 23 17:58	10° \mathbb{A} 58'01				14154 Apr 03 00:56	0° \mathbb{I}	
	14148 Nov 25 00:01	0° \mathbb{B}		evening set		14154 May 08 03:27	7° \mathbb{I} 12'17	
evening set	14148 Nov 28 00:30	0° \mathbb{B} 42'39		max. Earth dist.		14154 May 19 06:16	9° \mathbb{I} 36'22	6.45786 AU
conjunction	14148 Dec 11 13:56	3° \mathbb{B} 55'10	0°24'58	conjunction		14154 May 21 01:10	9° \mathbb{I} 59'37	-0°13'19
minimum elong	14148 Dec 11 13:56	3° \mathbb{B} 55'09	0°26'02	minimum elong		14154 May 21 01:09	9° \mathbb{I} 59'37	0°14'16
max. Earth dist.	14148 Dec 14 00:46	4° \mathbb{B} 29'59	6.02148 AU	behind sun begin		14154 May 20 21:21	9° \mathbb{I} 57'34	
morning rise	14148 Dec 25 04:34	7° \mathbb{B} 07'56		behind sun end		14154 May 21 04:57	10° \mathbb{I} 01'40	
retrograde	14149 May 02 19:00	26° \mathbb{B} 45'17		morning rise		14154 Jun 02 21:11	12° \mathbb{I} 46'23	
min. Earth dist.	14149 Jun 29 22:18	21° \mathbb{B} 55'14	4.10373 AU	retrograde		14154 Oct 02 17:00	29° \mathbb{I} 46'41	
opposition	14149 Jul 01 13:54	21° \mathbb{B} 41'52	0°46'51	opposition		14154 Dec 02 17:53	24° \mathbb{I} 53'01	-0°31'16
direct	14149 Aug 29 14:19	16° \mathbb{B} 43'51		min. Earth dist.		14154 Dec 04 05:28	24° \mathbb{I} 41'37	4.40118 AU
	14149 Dec 09 01:12	0° \approx		direct		14155 Feb 02 22:35	19° \mathbb{I} 52'34	
evening set	14150 Jan 03 03:58	5° \approx 33'26				14155 May 03 00:38	0° \mathbb{D}	
				evening set		14155 Jun 07 23:06	7° \mathbb{D} 35'00	
conjunction	14150 Jan 16 15:50	8° \approx 37'25	0°34'22	max. Earth dist.		14155 Jun 18 11:53	9° \mathbb{D} 55'40	6.32868 AU
minimum elong	14150 Jan 16 15:50	8° \approx 37'25	0°35'15					
max. Earth dist.	14150 Jan 18 23:30	9° \approx 09'05	6.19345 AU	conjunction		14155 Jun 20 19:26	10° \mathbb{D} 26'42	-0°27'54
morning rise	14150 Jan 30 03:52	11° \approx 41'06		minimum elong		14155 Jun 20 19:25	10° \mathbb{D} 26'42	0°28'57
	14150 Feb 14 01:36	15° \approx		morning rise		14155 Jul 03 14:58	13° \mathbb{D} 18'18	
	14150 May 30 03:41	0° \mathbb{H}				14155 Oct 08 01:30	0° \mathbb{Q}	
retrograde	14150 Jun 04 16:11	0° \mathbb{H} 02'59		retrograde		14155 Nov 04 18:16	1° \mathbb{Q} 10'47	
	14150 Jun 10 04:26	30° \mathbb{R} \approx				14155 Dec 02 09:52	30° \mathbb{R} \mathbb{D}	
opposition	14150 Aug 03 23:18	25° \approx 01'06	0°51'07	opposition		14156 Jan 04 08:16	26° \mathbb{D} 16'49	-0°48'22
min. Earth dist.	14150 Aug 02 16:18	25° \approx 11'25	4.28105 AU	min. Earth dist.		14156 Jan 05 23:58	26° \mathbb{D} 03'58	4.24488 AU
direct	14150 Oct 03 06:29	20° \approx 01'32		direct		14156 Mar 05 16:56	21° \mathbb{D} 17'16	
	14150 Dec 29 19:20	0° \mathbb{H}				14156 May 24 16:35	0° \mathbb{Q}	
evening set	14151 Feb 05 21:59	7° \mathbb{H} 56'43		evening set		14156 Jul 09 09:26	9° \mathbb{Q} 49'48	
				max. Earth dist.		14156 Jul 20 03:14	12° \mathbb{Q} 18'55	6.15699 AU
conjunction	14151 Feb 19 06:26	10° \mathbb{H} 52'11	0°32'12	conjunction		14156 Jul 22 07:07	12° \mathbb{Q} 49'02	-0°34'48
minimum elong	14151 Feb 19 06:26	10° \mathbb{H} 52'11	0°32'39	minimum elong		14156 Jul 22 07:07	12° \mathbb{Q} 49'02	0°35'39
max. Earth dist.	14151 Feb 20 19:04	11° \mathbb{H} 12'16	6.36188 AU			14156 Jul 31 16:43	15° \mathbb{Q}	
morning rise	14151 Mar 04 14:00	13° \mathbb{H} 46'57						

morning rise	14156 Aug 04 04:42	15°♏48'35		max. Earth dist.	14162 Jan 23 13:28	13°♐42'53	6.21517 AU
	14156 Oct 12 19:51	0°♍			14162 Jan 29 05:54	15°♐	
retrograde	14156 Dec 09 09:17	4°♍52'50		morning rise	14162 Feb 03 18:28	16°♐14'35	
opposition	14157 Feb 07 10:22	29°♏57'37 -0°51'07			14162 Apr 14 18:35	0°♐	
	14157 Feb 07 03:04	30°♏		retrograde	14162 Jun 08 21:21	4°♐28'08	
min. Earth dist.	14157 Feb 08 16:11	29°♏47'50	4.07046 AU		14162 Aug 04 01:51	30°♐	
direct	14157 Apr 08 11:33	24°♏59'52		min. Earth dist.	14162 Aug 07 00:38	29°♐36'35	4.30022 AU
	14157 Jun 05 01:51	0°♍		opposition	14162 Aug 08 06:31	29°♐26'40	0°50'27
evening set	14157 Aug 13 02:06	14°♍28'15		direct	14162 Oct 07 16:08	24°♐27'02	
max. Earth dist.	14157 Aug 24 21:00	17°♍17'58	5.99522 AU		14162 Dec 09 13:36	0°♐	
				evening set	14163 Feb 10 07:07	12°♐17'21	
conjunction	14157 Aug 26 03:39	17°♍36'24 -0°30'11					
minimum elong	14157 Aug 26 03:40	17°♍36'24	0°30'32	conjunction	14163 Feb 23 15:00	15°♐12'00	0°31'09
morning rise	14157 Sep 08 06:23	20°♍45'27		minimum elong	14163 Feb 23 15:00	15°♐12'01	0°31'32
	14157 Oct 18 19:11	0°♏		max. Earth dist.	14163 Feb 24 22:55	15°♐29'27	6.37724 AU
retrograde	14158 Jan 16 10:20	11°♏00'04		morning rise	14163 Mar 08 22:04	18°♐05'58	
opposition	14158 Mar 16 21:56	6°♏02'32 -0°34'54			14163 May 09 00:53	0°♐	
min. Earth dist.	14158 Mar 17 06:47	5°♏59'35	3.93691 AU	retrograde	14163 Jul 09 12:26	5°♐20'22	
direct	14158 May 14 17:20	1°♏06'38		opposition	14163 Sep 08 07:53	0°♐21'39	0°37'39
evening set	14158 Sep 19 00:44	21°♏15'24		min. Earth dist.	14163 Sep 07 19:32	0°♐25'41	4.43886 AU
					14163 Sep 11 02:18	30°♐	
conjunction	14158 Oct 02 08:12	24°♏30'42 -0°13'47		direct	14163 Nov 08 21:27	25°♐21'16	
minimum elong	14158 Oct 02 08:12	24°♏30'42	0°13'27		14164 Jan 05 20:49	0°♐	
behind sun begin	14158 Oct 02 03:30	24°♏27'50		evening set	14164 Mar 12 19:35	12°♐36'13	
behind sun end	14158 Oct 02 12:53	24°♏33'33					
max. Earth dist.	14158 Oct 02 14:15	24°♏34'24	5.90363 AU	conjunction	14164 Mar 25 23:30	15°♐25'08	0°18'56
morning rise	14158 Oct 15 17:15	27°♏47'00		minimum elong	14164 Mar 25 23:31	15°♐25'09	0°18'46
	14158 Oct 24 21:23	0°♍		max. Earth dist.	14164 Mar 26 03:52	15°♐27'28	6.48294 AU
	14159 Jan 07 03:51	15°♍		morning rise	14164 Apr 08 01:52	18°♐13'15	
retrograde	14159 Feb 24 08:58	18°♍37'34			14164 Jun 09 00:48	0°♐	
	14159 Apr 14 04:54	15°♍		retrograde	14164 Aug 07 03:20	4°♐54'44	
opposition	14159 Apr 24 13:49	13°♍37'08 -0°03'38		opposition	14164 Oct 07 06:41	29°♐58'38	0°15'31
min. Earth dist.	14159 Apr 23 21:51	13°♍42'31	3.89867 AU		14164 Oct 07 02:26	30°♐	
asc. node	14159 Jun 04 17:54	9°♍11'27		min. Earth dist.	14164 Oct 07 12:55	29°♐56'37	4.50595 AU
direct	14159 Jun 21 16:29	8°♍41'55		direct	14164 Dec 08 13:06	24°♐57'56	
	14159 Aug 24 14:12	15°♍			14165 Feb 07 15:27	0°♐	
evening set	14159 Oct 27 05:28	28°♍54'27		evening set	14165 Apr 12 04:31	12°♐00'17	
	14159 Oct 31 17:43	0°♐		max. Earth dist.	14165 Apr 24 05:25	14°♐34'23	6.50689 AU
conjunction	14159 Nov 09 17:24	2°♐11'02	0°08'32	conjunction	14165 Apr 25 04:41	14°♐46'50	0°02'00
minimum elong	14159 Nov 09 17:24	2°♐11'02	0°09'25	minimum elong	14165 Apr 25 04:40	14°♐46'49	0°01'20
behind sun begin	14159 Nov 09 10:26	2°♐06'49		behind sun begin	14165 Apr 24 20:38	14°♐42'33	
behind sun end	14159 Nov 10 00:22	2°♐15'15		behind sun end	14165 Apr 25 12:41	14°♐51'05	
max. Earth dist.	14159 Nov 11 09:51	2°♐35'36	5.92238 AU		14165 Apr 26 05:18	15°♐	
morning rise	14159 Nov 23 07:14	5°♐28'26		morning rise	14165 May 08 03:01	17°♐32'35	
retrograde	14160 Apr 02 02:23	25°♐59'09		desc. node	14165 Jun 08 11:24	23°♐58'02	
min. Earth dist.	14160 May 30 01:03	21°♐08'06	3.97272 AU		14165 Jul 13 18:01	0°♐	
opposition	14160 May 31 11:50	20°♐56'19	0°28'50	retrograde	14165 Sep 06 00:37	4°♐11'05	
direct	14160 Jul 28 17:59	15°♐59'57			14165 Oct 31 13:21	30°♐	
	14160 Nov 08 11:04	0°♐		opposition	14165 Nov 06 04:58	29°♐16'48	-0°10'20
evening set	14160 Dec 02 23:06	5°♐37'26		min. Earth dist.	14165 Nov 07 05:42	29°♐08'53	4.48597 AU
				direct	14166 Jan 07 17:33	24°♐16'05	
conjunction	14160 Dec 16 12:25	8°♐48'52	0°26'54		14166 Mar 14 02:27	0°♐	
minimum elong	14160 Dec 16 12:25	8°♐48'52	0°27'58	evening set	14166 May 12 08:45	11°♐29'49	
max. Earth dist.	14160 Dec 18 22:29	9°♐23'05	6.04329 AU	max. Earth dist.	14166 May 23 08:07	13°♐52'35	6.44372 AU
morning rise	14160 Dec 30 02:50	12°♐00'31					
	14161 Apr 07 01:32	0°♐		conjunction	14166 May 25 06:01	14°♐17'33	-0°15'37
retrograde	14161 May 07 08:35	1°♐28'04		minimum elong	14166 May 25 06:00	14°♐17'32	0°16'35
	14161 Jun 06 11:24	30°♐		morning rise	14166 Jun 07 02:00	17°♐04'48	
min. Earth dist.	14161 Jul 04 14:34	26°♐37'32	4.12641 AU		14166 Aug 14 03:55	0°♐	
opposition	14161 Jul 06 04:17	26°♐24'50	0°48'28	retrograde	14166 Oct 07 04:04	4°♐10'41	
direct	14161 Sep 03 09:28	21°♐26'35			14166 Dec 01 12:53	30°♐	
	14161 Nov 20 20:04	0°♐		opposition	14166 Dec 07 03:35	29°♐16'58	-0°34'13
evening set	14162 Jan 07 19:20	10°♐09'07		min. Earth dist.	14166 Dec 08 16:16	29°♐05'12	4.38322 AU
				direct	14167 Feb 07 07:05	24°♐16'33	
conjunction	14162 Jan 21 06:58	13°♐12'03	0°34'44		14167 Apr 12 17:58	0°♐	
minimum elong	14162 Jan 21 06:58	13°♐12'03	0°35'35	evening set	14167 Jun 12 08:11	12°♐04'32	















































































































max. Earth dist.	14167 Jun 22 21:35	14°  26'11	6.30800 AU	opposition	14172 Jun 05 13:10	26°  05'07	0°32'31
				direct	14172 Aug 02 22:20	21°  08'29	
conjunction	14167 Jun 25 04:40	14°  57'05	-0°29'24		14172 Oct 20 09:47	0°  3	
minimum elong	14167 Jun 25 04:39	14°  57'05	0°30'27	evening set	14172 Dec 08 00:36	10°  39'44	
morning rise	14167 Jul 08 00:09	17°  49'30					
	14167 Sep 06 07:31	0°  Ω		conjunction	14172 Dec 21 14:01	13°  35'015	0°28'40
retrograde	14167 Nov 09 11:10	5°  Ω50'18		minimum elong	14172 Dec 21 14:00	13°  35'014	0°29'44
opposition	14168 Jan 09 00:44	0°  Ω56'13	-0°49'43	max. Earth dist.	14172 Dec 24 02:02	14°  325'25	6.06327 AU
min. Earth dist.	14168 Jan 10 15:23	0°  Ω43'42	4.22268 AU	morning rise	14173 Jan 04 04:10	17°  300'51	
	14168 Jan 16 07:23	30°  R 			14173 Mar 07 02:41	0°  ≈	
direct	14168 Mar 10 05:14	25°  56'52		retrograde	14173 May 12 00:20	6°  ≈18'54	
	14168 May 01 15:35	0°  Ω		min. Earth dist.	14173 Jul 09 07:36	1°  ≈28'37	4.14858 AU
evening set	14168 Jul 14 00:50	14°  Ω36'22		opposition	14173 Jul 10 21:43	1°  ≈15'49	0°49'46
	14168 Jul 15 17:40	15°  Ω			14173 Jul 20 10:07	30°  R 	
max. Earth dist.	14168 Jul 24 20:14	17°  Ω07'11	6.13484 AU	direct	14173 Sep 08 05:45	26°  317'23	
					14173 Oct 27 19:00	0°  ≈	
conjunction	14168 Jul 26 22:43	17°  Ω36'39	-0°34'53	evening set	14174 Jan 12 14:07	14°  ≈52'47	
minimum elong	14168 Jul 26 22:44	17°  Ω36'40	0°35'40		14174 Jan 13 03:00	15°  ≈	
morning rise	14168 Aug 08 20:55	20°  Ω37'24					
	14168 Sep 20 11:21	0°  M 		conjunction	14174 Jan 26 01:11	17°  ≈54'32	0°34'52
retrograde	14168 Dec 14 12:02	9°  M51'18		minimum elong	14174 Jan 26 01:11	17°  ≈54'32	0°35'39
opposition	14169 Feb 12 10:52	4°  M55'47	-0°49'58	max. Earth dist.	14174 Jan 28 04:22	18°  ≈23'22	6.23773 AU
min. Earth dist.	14169 Feb 13 14:46	4°  M46'36	4.04998 AU	morning rise	14174 Feb 08 12:16	20°  ≈55'53	
	14169 Apr 09 03:51	30°  R  Ω			14174 Mar 23 14:16	0°  H	
direct	14169 Apr 13 08:37	29°  Ω58'14		retrograde	14174 Jun 13 06:32	9°  H00'31	
	14169 Apr 17 13:09	0°  M 		opposition	14174 Aug 12 16:40	3°  H59'22	0°49'25
evening set	14169 Aug 18 00:31	19°  M32'58		min. Earth dist.	14174 Aug 11 13:08	4°  H08'29	4.32157 AU
max. Earth dist.	14169 Aug 30 01:18	22°  M26'46	5.97850 AU		14174 Sep 16 22:11	30°  R 	
				direct	14174 Oct 12 06:56	28°  ≈59'34	
conjunction	14169 Aug 31 02:56	22°  M42'15	-0°28'32		14174 Nov 06 20:39	0°  H	
minimum elong	14169 Aug 31 02:57	22°  M42'16	0°28'47	evening set	14175 Feb 14 18:46	16°  H43'57	
morning rise	14169 Sep 13 06:23	25°  M52'26					
	14169 Sep 30 16:52	0°  Ω		conjunction	14175 Feb 28 02:15	19°  H37'39	0°29'53
retrograde	14170 Jan 21 18:12	16°  Ω14'16		minimum elong	14175 Feb 28 02:15	19°  H37'39	0°30'10
opposition	14170 Mar 22 04:10	11°  Ω16'23	-0°31'13	max. Earth dist.	14175 Mar 01 08:28	19°  H54'07	6.39612 AU
min. Earth dist.	14170 Mar 22 10:11	11°  Ω14'23	3.92585 AU	morning rise	14175 Mar 13 08:32	22°  H30'35	
direct	14170 May 19 20:06	6°  Ω20'41			14175 Apr 18 15:52	0°  Y	
evening set	14170 Sep 24 05:11	26°  Ω32'13		retrograde	14175 Jul 13 14:55	9°  Y38'27	
				opposition	14175 Sep 12 12:45	4°  Y40'06	0°35'00
conjunction	14170 Oct 07 13:13	29°  Ω48'02	-0°10'51	min. Earth dist.	14175 Sep 12 01:36	4°  Y43'44	4.45427 AU
minimum elong	14170 Oct 07 13:13	29°  Ω48'02	0°10'26		14175 Oct 29 08:20	30°  R  H	
behind sun begin	14170 Oct 07 06:42	29°  Ω44'03		direct	14175 Nov 13 04:17	29°  H39'41	
behind sun end	14170 Oct 07 19:45	29°  Ω52'01			14175 Nov 28 03:48	0°  Y	
max. Earth dist.	14170 Oct 07 22:47	29°  Ω53'53	5.89928 AU	evening set	14176 Mar 17 01:51	16°  Y50'49	
	14170 Oct 08 08:45	0°  M 					
morning rise	14170 Oct 20 23:15	3°  M04'57		conjunction	14176 Mar 30 05:04	19°  Y39'04	0°16'47
	14170 Dec 12 15:27	15°  M 		minimum elong	14176 Mar 30 05:05	19°  Y39'04	0°16'33
retrograde	14171 Mar 01 14:35	23°  M56'15		max. Earth dist.	14176 Mar 30 05:20	19°  Y39'13	6.49393 AU
asc. node	14171 Apr 16 19:15	20°  M39'01		morning rise	14176 Apr 12 06:51	22°  Y26'31	
opposition	14171 Apr 29 20:13	18°  M55'25	0°01'10		14176 May 19 15:27	0°  8	
min. Earth dist.	14171 Apr 29 00:29	19°  M02'05	3.90171 AU	retrograde	14176 Aug 11 06:11	9°  804'50	
	14171 Jun 02 16:06	15°  R  M 		opposition	14176 Oct 11 09:28	4°  809'02	0°12'04
direct	14171 Jun 26 21:37	14°  M00'05		min. Earth dist.	14176 Oct 11 18:58	4°  805'58	4.51185 AU
	14171 Jul 21 04:21	15°  M 			14176 Nov 18 17:23	30°  R  Y	
	14171 Oct 14 22:10	0°  H 		direct	14176 Dec 12 18:53	29°  Y08'17	
evening set	14171 Nov 01 11:10	4°  H  10'17			14177 Jan 05 23:16	0°  8	
					14177 Apr 10 20:09	15°  8	
conjunction	14171 Nov 14 23:33	7°  H  26'34	0°11'30	evening set	14177 Apr 16 07:40	16°  809'29	
minimum elong	14171 Nov 14 23:33	7°  H  26'34	0°12'26	desc. node	14177 Apr 18 12:31	16°  837'35	
behind sun begin	14171 Nov 14 18:08	7°  H  23'18		max. Earth dist.	14177 Apr 28 04:06	18°  841'16	6.50715 AU
behind sun end	14171 Nov 15 04:58	7°  H  29'50					
max. Earth dist.	14171 Nov 16 19:12	7°  H  53'02	5.93249 AU	conjunction	14177 Apr 29 07:16	18°  855'48	-0°00'30
morning rise	14171 Nov 28 13:39	10°  H  43'35		minimum elong	14177 Apr 29 07:15	18°  855'47	0°01'14
	14172 Mar 11 18:31	0°  3		behind sun begin	14177 Apr 28 23:14	18°  851'31	
retrograde	14172 Apr 07 03:06	1°  308'10		behind sun end	14177 Apr 29 15:16	19°  800'03	
	14172 May 03 08:23	30°  R  H 		morning rise	14177 May 12 05:11	21°  841'22	
min. Earth dist.	14172 Jun 04 01:59	26°  H  17'03	3.98854 AU		14177 Jun 22 13:23	0°  II	

retrograde	14177 Sep 10 03:16	8° Π 20'32	direct	14183 Jul 02 04:54	19° \mathbb{M} 21'06	
opposition	14177 Nov 10 08:14	3° Π 26'19 -0°13'47		14183 Sep 26 07:55	0° \mathbb{A}	
min. Earth dist.	14177 Nov 11 10:33	3° Π 17'54 4.48057 AU	evening set	14183 Nov 06 18:31	9° \mathbb{A} 30'10	
	14177 Dec 10 01:36	30° \mathbb{R} 8				
direct	14178 Jan 11 20:23	28° \mathbb{B} 25'33	conjunction	14183 Nov 20 07:28	12° \mathbb{A} 46'19 0°14'21	
	14178 Feb 13 18:30	0° Π	minimum elong	14183 Nov 20 07:27	12° \mathbb{A} 46'18 0°15'19	
evening set	14178 May 16 11:56	15° Π 41'20	behind sun begin	14183 Nov 20 05:04	12° \mathbb{A} 44'52	
max. Earth dist.	14178 May 27 10:06	18° Π 03'46 6.43284 AU	behind sun end	14183 Nov 20 09:51	12° \mathbb{A} 47'44	
			max. Earth dist.	14183 Nov 22 08:13	13° \mathbb{A} 15'46 5.94061 AU	
conjunction	14178 May 29 09:01	18° Π 29'21 -0°17'45	morning rise	14183 Dec 03 21:55	16° \mathbb{A} 03'04	
minimum elong	14178 May 29 09:00	18° Π 29'21 0°18'45		14184 Feb 06 16:01	0° \mathbb{B}	
morning rise	14178 Jun 11 04:34	21° Π 16'53	retrograde	14184 Apr 12 05:24	6° \mathbb{B} 22'00	
	14178 Jul 23 18:35	0° \mathbb{B}	min. Earth dist.	14184 Jun 09 02:40	1° \mathbb{B} 31'30 4.00368 AU	
retrograde	14178 Oct 11 11:32	8° \mathbb{B} 27'26	opposition	14184 Jun 10 16:07	1° \mathbb{B} 18'49 0°35'54	
opposition	14178 Dec 11 10:40	3° \mathbb{B} 33'45 -0°36'52		14184 Jun 20 11:53	30° \mathbb{R} 8	
min. Earth dist.	14178 Dec 13 00:47	3° \mathbb{B} 21'31 4.36728 AU	direct	14184 Aug 08 02:27	26° \mathbb{A} 21'59	
	14179 Jan 11 10:00	30° \mathbb{R} 11		14184 Sep 25 05:09	0° \mathbb{B}	
direct	14179 Feb 11 12:20	28° Π 33'24	evening set	14184 Dec 13 04:28	15° \mathbb{B} 47'14	
	14179 Mar 14 14:10	0° \mathbb{B}				
evening set	14179 Jun 16 14:45	16° \mathbb{B} 26'34	conjunction	14184 Dec 26 17:37	18° \mathbb{B} 56'44 0°30'13	
max. Earth dist.	14179 Jun 27 01:49	18° \mathbb{B} 47'35 6.28788 AU	minimum elong	14184 Dec 26 17:36	18° \mathbb{B} 56'43 0°31'14	
			max. Earth dist.	14184 Dec 29 05:15	19° \mathbb{B} 31'31 6.08372 AU	
conjunction	14179 Jun 29 11:05	19° \mathbb{B} 19'52 -0°30'40	morning rise	14185 Jan 09 07:41	22° \mathbb{B} 06'16	
minimum elong	14179 Jun 29 11:04	19° \mathbb{B} 19'52 0°31'42		14185 Feb 13 23:16	0° \mathbb{A}	
morning rise	14179 Jul 12 06:53	22° \mathbb{B} 13'11	retrograde	14185 May 16 17:27	11° \mathbb{A} 14'29	
	14179 Aug 17 11:23	0° \mathbb{Q}	min. Earth dist.	14185 Jul 14 03:04	6° \mathbb{A} 24'04 4.17203 AU	
retrograde	14179 Nov 14 03:36	10° \mathbb{Q} 22'38	opposition	14185 Jul 15 16:34	6° \mathbb{A} 11'28 0°50'41	
opposition	14180 Jan 13 14:53	5° \mathbb{Q} 28'22 -0°50'42	direct	14185 Sep 13 04:53	1° \mathbb{A} 12'44	
min. Earth dist.	14180 Jan 15 05:26	5° \mathbb{Q} 15'51 4.19944 AU		14185 Dec 27 01:29	15° \mathbb{A}	
direct	14180 Mar 14 16:04	0° \mathbb{Q} 29'07	evening set	14186 Jan 17 10:13	19° \mathbb{A} 40'28	
	14180 Jun 29 20:40	15° \mathbb{Q}				
evening set	14180 Jul 18 13:43	19° \mathbb{Q} 16'18	conjunction	14186 Jan 30 21:00	22° \mathbb{A} 41'00 0°34'44	
max. Earth dist.	14180 Jul 29 11:57	21° \mathbb{Q} 49'33 6.11043 AU	minimum elong	14186 Jan 30 21:00	22° \mathbb{A} 41'00 0°35'28	
			max. Earth dist.	14186 Feb 01 23:43	23° \mathbb{A} 09'25 6.26218 AU	
conjunction	14180 Jul 31 12:14	22° \mathbb{Q} 17'52 -0°34'44	morning rise	14186 Feb 13 07:19	25° \mathbb{A} 41'01	
minimum elong	14180 Jul 31 12:14	22° \mathbb{Q} 17'52 0°35'28		14186 Mar 05 03:02	0° \mathbb{H}	
morning rise	14180 Aug 13 10:52	25° \mathbb{Q} 19'55	retrograde	14186 Jun 17 15:42	13° \mathbb{H} 35'58	
	14180 Sep 02 19:24	0° \mathbb{H}	min. Earth dist.	14186 Aug 16 01:30	8° \mathbb{H} 43'48 4.34467 AU	
retrograde	14180 Dec 19 13:26	14° \mathbb{H} 44'36	opposition	14186 Aug 17 03:43	8° \mathbb{H} 35'09 0°48'03	
opposition	14181 Feb 17 09:29	9° \mathbb{H} 48'53 -0°48'32	direct	14186 Oct 16 21:26	3° \mathbb{H} 35'13	
min. Earth dist.	14181 Feb 18 11:54	9° \mathbb{H} 40'11 4.02651 AU	evening set	14187 Feb 19 07:06	21° \mathbb{H} 13'04	
direct	14181 Apr 18 01:55	4° \mathbb{H} 51'38				
evening set	14181 Aug 22 22:14	24° \mathbb{H} 34'19	conjunction	14187 Mar 04 13:48	24° \mathbb{H} 05'42 0°28'23	
max. Earth dist.	14181 Sep 04 01:49	27° \mathbb{H} 30'41 5.95811 AU	minimum elong	14187 Mar 04 13:48	24° \mathbb{H} 05'42 0°28'36	
			max. Earth dist.	14187 Mar 05 14:58	24° \mathbb{H} 19'21 6.41590 AU	
conjunction	14181 Sep 05 01:19	27° \mathbb{H} 44'56 -0°26'43	morning rise	14187 Mar 17 19:33	26° \mathbb{H} 57'36	
minimum elong	14181 Sep 05 01:20	27° \mathbb{H} 44'56 0°26'52		14187 Apr 01 02:51	0° \mathbb{Y}	
	14181 Sep 14 08:15	0° \mathbb{A}	retrograde	14187 Jul 17 20:20	13° \mathbb{Y} 58'55	
morning rise	14181 Sep 18 05:55	0° \mathbb{A} 56'33	opposition	14187 Sep 16 18:32	9° \mathbb{Y} 00'54 0°32'05	
retrograde	14182 Jan 27 00:41	21° \mathbb{A} 27'16	min. Earth dist.	14187 Sep 16 10:51	9° \mathbb{Y} 03'24 4.46929 AU	
opposition	14182 Mar 27 09:40	16° \mathbb{A} 29'02 -0°27'22	direct	14187 Nov 17 13:53	4° \mathbb{Y} 00'20	
min. Earth dist.	14182 Mar 27 11:47	16° \mathbb{A} 28'20 3.91085 AU	evening set	14188 Mar 21 08:33	21° \mathbb{Y} 07'54	
direct	14182 May 24 21:41	11° \mathbb{A} 33'29				
	14182 Sep 21 21:12	0° \mathbb{M}	conjunction	14188 Apr 03 11:20	23° \mathbb{Y} 55'36 0°14'30	
evening set	14182 Sep 29 10:11	1° \mathbb{M} 49'47	minimum elong	14188 Apr 03 11:21	23° \mathbb{Y} 55'36 0°14'10	
			behind sun begin	14188 Apr 03 07:31	23° \mathbb{Y} 53'34	
conjunction	14182 Oct 12 19:11	5° \mathbb{M} 06'26 -0°07'53	behind sun end	14188 Apr 03 15:10	23° \mathbb{Y} 57'38	
minimum elong	14182 Oct 12 19:12	5° \mathbb{M} 06'26 0°07'22	max. Earth dist.	14188 Apr 03 08:36	23° \mathbb{Y} 54'09 6.50309 AU	
behind sun begin	14182 Oct 12 11:36	5° \mathbb{M} 01'47	morning rise	14188 Apr 16 12:22	26° \mathbb{Y} 42'27	
behind sun end	14182 Oct 13 02:48	5° \mathbb{M} 11'05		14188 May 02 06:22	0° \mathbb{B}	
max. Earth dist.	14182 Oct 13 10:34	5° \mathbb{M} 15'52 5.89140 AU	retrograde	14188 Aug 15 08:12	13° \mathbb{B} 18'22	
morning rise	14182 Oct 26 06:00	8° \mathbb{M} 24'07	opposition	14188 Oct 15 13:05	8° \mathbb{B} 22'49 0°08'28	
	14182 Nov 23 01:59	15° \mathbb{M}	min. Earth dist.	14188 Oct 16 00:25	8° \mathbb{B} 19'10 4.51469 AU	
asc. node	14183 Feb 28 12:24	29° \mathbb{M} 13'27	direct	14188 Dec 16 22:48	3° \mathbb{B} 22'02	
retrograde	14183 Mar 06 23:33	29° \mathbb{M} 17'43	desc. node	14189 Feb 22 15:52	9° \mathbb{B} 25'26	
min. Earth dist.	14183 May 04 05:55	24° \mathbb{M} 23'53 3.90185 AU		14189 Mar 25 09:36	15° \mathbb{B}	
opposition	14183 May 05 03:46	24° \mathbb{M} 16'30 0°05'53	evening set	14189 Apr 20 12:17	20° \mathbb{B} 23'15	

max. Earth dist.	14189 May 02 04:52	22°♄53'08	6.50340 AU	morning rise	14194 Oct 31 17:22	13°♍53'31	
					14194 Nov 05 06:52	15°♍	
conjunction	14189 May 03 11:23	23°♄09'29	-0°03'04	asc. node	14195 Jan 09 09:27	28°♍58'04	
minimum elong	14189 May 03 11:23	23°♄09'29	0°03'50		14195 Jan 15 16:04	0°♄	
behind sun begin	14189 May 03 03:28	23°♄05'16		retrograde	14195 Mar 12 09:06	4°♄45'52	
behind sun end	14189 May 03 19:18	23°♄13'42			14195 May 08 15:32	30°♍	
morning rise	14189 May 16 08:51	25°♄55'02		opposition	14195 May 10 13:55	29°♍44'18	0°10'44
	14189 Jun 04 21:28	0°♄		min. Earth dist.	14195 May 09 12:11	29°♍53'01	3.90969 AU
retrograde	14189 Sep 14 10:05	12°♄36'17		direct	14195 Jul 07 14:05	24°♍48'50	
opposition	14189 Nov 14 13:57	7°♄42'13	-0°17'20		14195 Sep 03 04:01	0°♄	
min. Earth dist.	14189 Nov 15 19:19	7°♄32'50	4.47033 AU	evening set	14195 Nov 12 04:08	14°♄53'31	
direct	14190 Jan 16 02:22	2°♄41'27					
evening set	14190 May 20 17:48	20°♄00'48		conjunction	14195 Nov 25 17:09	18°♄08'56	0°17'10
max. Earth dist.	14190 May 31 11:54	22°♄21'34	6.41668 AU	minimum elong	14195 Nov 25 17:08	18°♄08'56	0°18'11
				max. Earth dist.	14195 Nov 27 20:10	18°♄39'39	5.95682 AU
conjunction	14190 Jun 02 14:35	22°♄49'18	-0°19'55	morning rise	14195 Dec 09 07:53	21°♄24'58	
minimum elong	14190 Jun 02 14:35	22°♄49'18	0°20'57		14196 Jan 15 22:46	0°♄	
morning rise	14190 Jun 15 10:09	25°♄37'26		retrograde	14196 Apr 17 05:55	11°♄34'49	
	14190 Jul 05 21:45	0°♄		min. Earth dist.	14196 Jun 14 04:12	6°♄44'31	4.02625 AU
retrograde	14190 Oct 16 00:04	12°♄54'34		opposition	14196 Jun 15 18:48	6°♄31'27	0°39'04
opposition	14190 Dec 15 21:54	8°♄00'48	-0°39'30	direct	14196 Aug 13 08:49	1°♄34'18	
min. Earth dist.	14190 Dec 17 12:29	7°♄48'24	4.34607 AU	evening set	14196 Dec 18 07:05	20°♄50'54	
direct	14191 Feb 15 20:18	3°♄00'28					
evening set	14191 Jun 21 01:36	21°♄00'30		conjunction	14196 Dec 31 20:07	23°♄59'05	0°31'34
max. Earth dist.	14191 Jul 01 13:59	23°♄22'58	6.26321 AU	minimum elong	14196 Dec 31 20:07	23°♄59'05	0°32'34
				max. Earth dist.	14197 Jan 03 08:52	24°♄34'18	6.11049 AU
conjunction	14191 Jul 03 22:13	23°♄54'52	-0°31'50	morning rise	14197 Jan 14 09:36	27°♄07'10	
minimum elong	14191 Jul 03 22:13	23°♄54'51	0°32'50		14197 Jan 27 01:55	0°♄	
morning rise	14191 Jul 16 18:06	26°♄49'15			14197 Apr 25 14:21	15°♄	
	14191 Jul 31 00:12	0°♄		retrograde	14197 May 21 08:45	16°♄03'34	
	14191 Nov 09 10:05	15°♄			14197 Jun 15 21:42	15°♍	
retrograde	14191 Nov 19 01:45	15°♄08'50		min. Earth dist.	14197 Jul 18 21:01	11°♄12'59	4.20014 AU
	14191 Nov 28 16:23	15°♍♄		opposition	14197 Jul 20 09:29	11°♄00'46	0°51'15
opposition	14192 Jan 18 10:30	10°♄14'26	-0°51'27	direct	14197 Sep 18 02:15	6°♄01'51	
min. Earth dist.	14192 Jan 20 00:52	10°♄01'58	4.17301 AU		14197 Dec 08 12:42	15°♄	
direct	14192 Mar 19 07:16	5°♄15'24		evening set	14198 Jan 22 03:42	24°♄20'39	
	14192 Jun 11 18:18	15°♄					
evening set	14192 Jul 23 08:42	24°♄11'15		conjunction	14198 Feb 04 13:46	27°♄19'48	0°34'25
max. Earth dist.	14192 Aug 03 08:13	26°♄46'12	6.08444 AU	minimum elong	14198 Feb 04 13:46	27°♄19'48	0°35'04
				max. Earth dist.	14198 Feb 06 12:47	27°♄45'59	6.28910 AU
conjunction	14192 Aug 05 07:37	27°♄14'10	-0°34'20		14198 Feb 16 14:12	0°♄	
minimum elong	14192 Aug 05 07:38	27°♄14'10	0°35'00	morning rise	14198 Feb 17 23:32	0°♄18'25	
	14192 Aug 17 00:59	0°♄		retrograde	14198 Jun 21 21:42	18°♄03'30	
morning rise	14192 Aug 18 07:09	0°♄17'43		opposition	14198 Aug 21 12:03	13°♄03'01	0°46'26
retrograde	14192 Dec 24 19:22	19°♄53'38		min. Earth dist.	14198 Aug 20 12:15	13°♄10'52	4.36840 AU
opposition	14193 Feb 22 14:23	14°♄57'35	-0°46'37	direct	14198 Oct 21 09:47	8°♄02'58	
min. Earth dist.	14193 Feb 23 13:18	14°♄50'00	4.00335 AU	evening set	14199 Feb 23 16:32	25°♄34'30	
direct	14193 Apr 23 01:53	10°♄00'34					
evening set	14193 Aug 28 01:53	29°♄50'46		conjunction	14199 Mar 08 22:46	28°♄26'10	0°26'47
	14193 Aug 28 17:11	0°♄		minimum elong	14199 Mar 08 22:47	28°♄26'11	0°26'56
				max. Earth dist.	14199 Mar 09 20:53	28°♄38'08	6.43481 AU
conjunction	14193 Sep 10 05:58	3°♄02'39	-0°24'34		14199 Mar 16 04:25	0°♄	
minimum elong	14193 Sep 10 05:59	3°♄02'39	0°24'37	morning rise	14199 Mar 22 03:38	1°♄17'02	
max. Earth dist.	14193 Sep 09 12:38	2°♄52'06	5.94032 AU	retrograde	14199 Jul 21 22:02	18°♄12'31	
morning rise	14193 Sep 23 11:23	6°♄15'31		opposition	14199 Sep 20 21:50	13°♄14'56	0°29'05
retrograde	14194 Feb 01 14:32	26°♄53'41		min. Earth dist.	14199 Sep 20 16:44	13°♄16'35	4.48222 AU
opposition	14194 Apr 01 20:53	21°♄55'03	-0°23'03	direct	14199 Nov 21 19:46	8°♄14'23	
min. Earth dist.	14194 Apr 01 20:07	21°♄55'19	3.90057 AU	evening set	14200 Mar 26 13:13	25°♄19'19	
direct	14194 May 30 06:50	16°♄59'40					
	14194 Sep 03 22:10	0°♄		conjunction	14200 Apr 08 15:16	28°♄06'33	0°12'10
evening set	14194 Oct 04 20:00	7°♄18'18		minimum elong	14200 Apr 08 15:17	28°♄06'33	0°11'46
				behind sun begin	14200 Apr 08 09:40	28°♄03'34	
conjunction	14194 Oct 18 05:47	10°♄35'25	-0°04'42	behind sun end	14200 Apr 08 20:54	28°♄09'32	
minimum elong	14194 Oct 18 05:47	10°♄35'25	0°04'05	max. Earth dist.	14200 Apr 08 06:42	28°♄01'59	6.50906 AU
behind sun begin	14194 Oct 17 21:33	10°♄30'23			14200 Apr 17 12:03	0°♄	
behind sun end	14194 Oct 18 14:00	10°♄40'26		morning rise	14200 Apr 21 15:53	0°♄53'00	
max. Earth dist.	14194 Oct 19 03:12	10°♄48'33	5.88988 AU		14200 Jul 10 11:52	15°♄	


































































































































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	14200 Sep 30 13:33	15° 8		direct	14206 Jun 05 14:40	22° 2 28'46	
opposition	14200 Oct 20 15:44	12° 8 32'39	0°04'51		14206 Aug 15 02:35	0° 8	
min. Earth dist.	14200 Oct 21 06:55	12° 8 27'47	4.51347 AU	evening set	14206 Oct 11 05:57	12° 8 47'24	
direct	14200 Dec 22 03:04	7° 8 31'51			14206 Oct 20 06:55	15° 8	
desc. node	14201 Jan 01 11:15	7° 8 41'29					
	14201 Mar 08 04:45	15° 8		conjunction	14206 Oct 24 16:13	16° 8 04'33	-0°01'26
evening set	14201 Apr 25 15:42	24° 8 34'28		minimum elong	14206 Oct 24 16:13	16° 8 04'33	0°00'46
max. Earth dist.	14201 May 07 04:27	27° 8 02'36	6.49498 AU	behind sun begin	14206 Oct 24 07:52	15° 8 59'28	
				behind sun end	14206 Oct 25 00:33	16° 8 09'39	
conjunction	14201 May 08 14:31	27° 8 20'53	-0°05'33	max. Earth dist.	14206 Oct 25 17:58	16° 8 20'20	5.89426 AU
minimum elong	14201 May 08 14:31	27° 8 20'53	0°06'22	morning rise	14206 Nov 07 04:31	19° 8 22'43	
behind sun begin	14201 May 08 06:58	27° 8 16'51		asc. node	14206 Nov 19 10:57	22° 8 20'00	
behind sun end	14201 May 08 22:04	27° 8 24'55			14206 Dec 23 13:39	0° 8	
	14201 May 20 23:11	0° 8		retrograde	14207 Mar 18 16:04	10° 8 11'14	
morning rise	14201 May 21 11:35	0° 8 06'37		opposition	14207 May 16 22:20	5° 8 09'14	0°15'25
retrograde	14201 Sep 19 15:54	16° 8 51'42		min. Earth dist.	14207 May 15 18:01	5° 8 18'51	3.92244 AU
opposition	14201 Nov 19 19:38	11° 8 57'47	-0°20'47	direct	14207 Jul 14 00:16	0° 8 13'32	
min. Earth dist.	14201 Nov 21 02:10	11° 8 48'00	4.45534 AU	evening set	14207 Nov 18 11:15	20° 8 12'03	
direct	14202 Jan 21 05:24	6° 8 57'04					
evening set	14202 May 26 00:16	24° 8 21'43		conjunction	14207 Dec 02 00:34	23° 8 26'37	0°19'48
max. Earth dist.	14202 Jun 05 17:13	26° 8 42'29	6.39610 AU	minimum elong	14207 Dec 02 00:34	23° 8 26'37	0°20'50
				max. Earth dist.	14207 Dec 04 07:27	23° 8 59'29	5.97648 AU
conjunction	14202 Jun 07 20:56	27° 8 10'57	-0°21'59	morning rise	14207 Dec 15 15:09	26° 8 41'37	
minimum elong	14202 Jun 07 20:56	27° 8 10'57	0°23'02		14207 Dec 29 17:29	0° 8	
morning rise	14202 Jun 20 16:22	29° 8 59'51		retrograde	14208 Apr 23 04:57	16° 8 41'25	
	14202 Jun 20 16:39	0° 8		min. Earth dist.	14208 Jun 20 04:09	11° 8 51'01	4.05039 AU
retrograde	14202 Oct 21 15:49	17° 8 25'13		opposition	14208 Jun 21 18:42	11° 8 37'59	0°41'50
opposition	14202 Dec 21 10:39	12° 8 31'30	-0°41'57	direct	14208 Aug 19 12:19	6° 8 40'34	
min. Earth dist.	14202 Dec 23 02:50	12° 8 18'35	4.32113 AU	evening set	14208 Dec 24 07:02	25° 8 48'24	
direct	14203 Feb 21 06:19	7° 8 31'21					
evening set	14203 Jun 26 14:26	25° 8 39'38		conjunction	14209 Jan 06 19:39	28° 8 55'13	0°32'39
max. Earth dist.	14203 Jul 07 02:00	28° 8 02'34	6.23580 AU	minimum elong	14209 Jan 06 19:39	28° 8 55'13	0°33'38
				max. Earth dist.	14209 Jan 09 07:10	29° 8 29'31	6.13666 AU
conjunction	14203 Jul 09 11:12	28° 8 35'12	-0°32'50		14209 Jan 11 12:09	0° 8	
minimum elong	14203 Jul 09 11:11	28° 8 35'11	0°33'49	morning rise	14209 Jan 20 08:48	2° 8 01'56	
	14203 Jul 15 15:51	0° 8			14209 Mar 24 16:37	15° 8	
morning rise	14203 Jul 22 07:36	1° 8 30'54		retrograde	14209 May 26 19:41	20° 8 47'11	
	14203 Sep 27 05:47	15° 8		opposition	14209 Jul 25 23:40	15° 8 44'36	0°51'30
retrograde	14203 Nov 25 01:40	20° 8 01'50		min. Earth dist.	14209 Jul 24 12:07	15° 8 56'29	4.22600 AU
opposition	14204 Jan 24 08:49	15° 8 07'16	-0°51'53		14209 Jul 31 13:46	15° 8	
	14204 Jan 25 07:06	15° 8		direct	14209 Sep 23 19:57	10° 8 45'27	
min. Earth dist.	14204 Jan 25 20:52	14° 8 55'31	4.14530 AU		14209 Nov 16 15:33	15° 8	
direct	14204 Mar 24 23:52	10° 8 08'32		evening set	14210 Jan 27 19:08	28° 8 56'30	
	14204 May 21 05:57	15° 8			14210 Feb 01 14:12	0° 8	
evening set	14204 Jul 29 06:06	29° 8 13'29					
	14204 Aug 01 13:05	0° 8		conjunction	14210 Feb 10 04:46	1° 8 54'27	0°33'53
max. Earth dist.	14204 Aug 09 11:11	1° 8 52'34	6.05904 AU	minimum elong	14210 Feb 10 04:46	1° 8 54'27	0°34'28
				max. Earth dist.	14210 Feb 12 00:34	2° 8 18'44	6.31274 AU
conjunction	14204 Aug 11 05:43	2° 8 17'49	-0°33'41	morning rise	14210 Feb 23 13:47	4° 8 51'48	
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morning rise	14204 Aug 24 05:51	5° 8 22'48		opposition	14210 Aug 26 19:23	17° 8 28'21	0°44'35
retrograde	14204 Dec 31 06:08	25° 8 09'41		min. Earth dist.	14210 Aug 25 22:36	17° 8 35'10	4.38805 AU
opposition	14205 Feb 28 21:56	20° 8 13'20	-0°44'19	direct	14210 Oct 26 21:51	12° 8 28'11	
min. Earth dist.	14205 Mar 01 18:27	20° 8 06'33	3.98283 AU	evening set	14211 Mar 01 01:16	29° 8 54'44	
direct	14205 Apr 29 05:58	15° 8 16'40			14211 Mar 01 11:06	0° 8	
	14205 Aug 12 07:59	0° 8					
evening set	14205 Sep 03 07:46	5° 8 13'03		conjunction	14211 Mar 14 06:50	2° 8 45'37	0°25'02
				minimum elong	14211 Mar 14 06:51	2° 8 45'37	0°25'06
conjunction	14205 Sep 16 12:39	8° 8 25'59	-0°22'12	max. Earth dist.	14211 Mar 14 23:50	2° 8 54'46	6.44904 AU
minimum elong	14205 Sep 16 12:40	8° 8 25'59	0°22'10	morning rise	14211 Mar 27 11:14	5° 8 35'44	
max. Earth dist.	14205 Sep 16 00:29	8° 8 18'34	5.92677 AU	retrograde	14211 Jul 27 00:46	22° 8 26'56	
morning rise	14205 Sep 29 19:03	11° 8 39'57		opposition	14211 Sep 26 01:41	17° 8 29'40	0°25'57
	14205 Dec 31 09:08	0° 8		min. Earth dist.	14211 Sep 25 23:35	17° 8 30'21	4.49041 AU
retrograde	14206 Feb 08 02:21	2° 8 23'07		direct	14211 Nov 27 01:55	12° 8 29'01	
	14206 Mar 18 23:01	30° 8		evening set	14212 Mar 30 18:26	29° 8 32'37	
opposition	14206 Apr 08 08:26	27° 8 24'03	-0°18'31		14212 Apr 01 22:07	0° 8	

conjunction	14212 Apr 12 20:10	2°♄19'36	0°09'46	minimum elong	14217 Sep 21 17:09	13°♂42'45	0°19'36
minimum elong	14212 Apr 12 20:11	2°♄19'37	0°09'18	max. Earth dist.	14217 Sep 21 10:05	13°♂38'26	5.92123 AU
behind sun begin	14212 Apr 12 13:26	2°♄16'02		morning rise	14217 Oct 05 00:21	16°♂57'19	
behind sun end	14212 Apr 13 02:55	2°♄23'12			14217 Dec 02 16:12	0°♂	
max. Earth dist.	14212 Apr 12 08:53	2°♄13'36	6.51074 AU	retrograde	14218 Feb 13 09:25	7°♂42'20	
morning rise	14212 Apr 25 20:05	5°♄05'47		opposition	14218 Apr 13 16:14	2°♂42'49	-0°14'02
	14212 Jun 15 09:42	15°♄		min. Earth dist.	14218 Apr 13 07:26	2°♂45'46	3.89817 AU
retrograde	14212 Aug 24 14:59	21°♄40'49			14218 May 05 02:23	30°♂♂	
opposition	14212 Oct 24 19:47	16°♄45'50	0°01'10	direct	14218 Jun 10 21:59	27°♂47'34	
min. Earth dist.	14212 Oct 25 12:53	16°♄40'21	4.50869 AU		14218 Jul 17 09:56	0°♂	
	14212 Nov 07 21:25	15°♄♄		asc. node	14218 Sep 29 03:38	13°♂54'43	
desc. node	14212 Nov 11 00:29	14°♄37'54			14218 Oct 03 17:59	15°♂	
direct	14212 Dec 26 07:10	11°♄45'05		evening set	14218 Oct 16 11:03	18°♂03'38	
	14213 Feb 12 13:32	15°♄					
evening set	14213 Apr 29 21:09	28°♄49'59		conjunction	14218 Oct 29 21:55	21°♂20'33	0°01'42
	14213 May 05 07:56	0°♂		minimum elong	14218 Oct 29 21:57	21°♂20'34	0°02'28
max. Earth dist.	14213 May 11 05:37	1°♂16'15	6.48403 AU	behind sun begin	14218 Oct 29 13:36	21°♂15'29	
				behind sun end	14218 Oct 30 06:17	21°♂25'38	
conjunction	14213 May 12 19:28	1°♂36'38	-0°08'02	max. Earth dist.	14218 Oct 31 05:27	21°♂39'49	5.90418 AU
minimum elong	14213 May 12 19:28	1°♂36'38	0°08'55	morning rise	14218 Nov 12 10:30	24°♂38'23	
behind sun begin	14213 May 12 12:37	1°♂32'58			14218 Dec 05 00:29	0°♂♂	
behind sun end	14213 May 13 02:19	1°♂40'19		retrograde	14219 Mar 23 18:37	15°♂21'06	
morning rise	14213 May 25 16:20	4°♂22'42		min. Earth dist.	14219 May 20 19:04	10°♂28'57	3.93887 AU
retrograde	14213 Sep 24 02:33	21°♂12'17		opposition	14219 May 22 00:44	10°♂18'54	0°19'42
opposition	14213 Nov 24 04:01	16°♂18'30	-0°24'13	direct	14219 Jul 19 04:31	5°♂23'03	
min. Earth dist.	14213 Nov 25 13:05	16°♂07'54	4.43890 AU	evening set	14219 Nov 23 12:31	25°♂14'38	
direct	14214 Jan 25 13:18	11°♂17'51					
evening set	14214 May 30 08:52	28°♂47'59		conjunction	14219 Dec 07 01:45	28°♂28'13	0°22'09
	14214 Jun 04 20:00	0°♂♂		minimum elong	14219 Dec 07 01:44	28°♂28'12	0°23'11
max. Earth dist.	14214 Jun 10 00:14	1°♂08'33	6.37545 AU	max. Earth dist.	14219 Dec 09 09:16	29°♂01'18	5.99742 AU
					14219 Dec 13 11:56	0°♂♂	
conjunction	14214 Jun 12 05:31	1°♂37'59	-0°23'59	morning rise	14219 Dec 20 16:23	1°♂42'11	
minimum elong	14214 Jun 12 05:30	1°♂37'59	0°25'02	retrograde	14220 Apr 27 19:21	21°♂32'00	
morning rise	14214 Jun 25 00:57	4°♂27'42		min. Earth dist.	14220 Jun 24 21:01	16°♂41'50	4.07373 AU
retrograde	14214 Oct 26 07:39	22°♂01'18		opposition	14220 Jun 26 12:04	16°♂28'39	0°44'10
opposition	14214 Dec 26 02:05	17°♂07'32	-0°44'13	direct	14220 Aug 24 07:58	11°♂31'00	
min. Earth dist.	14214 Dec 27 17:07	16°♂54'58	4.29789 AU		14220 Dec 26 18:20	0°♂♂	
direct	14215 Feb 25 17:02	12°♂07'38		evening set	14220 Dec 29 00:58	0°♂♂31'06	
	14215 Jun 29 12:11	0°♂♂					
evening set	14215 Jul 01 05:18	0°♂23'19		conjunction	14221 Jan 11 13:18	3°♂♂36'45	0°33'30
max. Earth dist.	14215 Jul 11 19:42	2°♂48'39	6.21205 AU	minimum elong	14221 Jan 11 13:18	3°♂♂36'45	0°34'27
				max. Earth dist.	14221 Jan 13 22:22	4°♂♂09'28	6.16032 AU
conjunction	14215 Jul 14 02:16	3°♂49'58	-0°33'40	morning rise	14221 Jan 25 01:58	6°♂♂42'12	
minimum elong	14215 Jul 14 02:15	3°♂49'57	0°34'37		14221 Mar 04 10:18	15°♂♂	
morning rise	14215 Jul 26 22:55	6°♂16'47		retrograde	14221 May 31 04:36	25°♂♂18'04	
	14215 Sep 05 02:23	15°♂♂		min. Earth dist.	14221 Jul 29 00:17	20°♂♂26'47	4.24789 AU
retrograde	14215 Nov 30 04:21	24°♂45'40		opposition	14221 Jul 30 09:05	20°♂♂15'51	0°51'29
opposition	14216 Jan 29 08:49	20°♂02'57	-0°52'01	direct	14221 Sep 28 10:23	15°♂♂16'34	
min. Earth dist.	14216 Jan 30 19:46	19°♂51'33	4.12304 AU		14222 Jan 16 17:58	0°♂♂	
direct	14216 Mar 29 20:56	15°♂04'35		evening set	14222 Feb 01 05:54	3°♂♂21'35	
	14216 Jul 15 18:33	0°♂♂♂					
evening set	14216 Aug 03 04:16	4°♂♂16'20		conjunction	14222 Feb 14 15:05	6°♂♂18'36	0°33'13
max. Earth dist.	14216 Aug 14 13:09	6°♂♂58'23	6.04049 AU	minimum elong	14222 Feb 14 15:05	6°♂♂18'37	0°33'45
				max. Earth dist.	14222 Feb 16 07:50	6°♂♂41'06	6.33125 AU
conjunction	14216 Aug 16 04:26	7°♂♂21'46	-0°32'51	morning rise	14222 Feb 27 23:34	9°♂♂15'00	
minimum elong	14216 Aug 16 04:27	7°♂♂21'46	0°33'21	retrograde	14222 Jul 01 05:35	26°♂♂45'16	
morning rise	14216 Aug 29 05:19	10°♂♂27'55		opposition	14222 Aug 30 23:13	21°♂♂45'38	0°42'40
	14216 Dec 21 07:09	0°♂♂♂		min. Earth dist.	14222 Aug 30 04:13	21°♂♂51'52	4.40225 AU
retrograde	14217 Jan 05 13:03	0°♂♂22'44		direct	14222 Oct 31 03:52	16°♂♂45'25	
	14217 Jan 20 18:52	30°♂♂♂♂			14223 Feb 13 12:52	0°♂♂♂	
opposition	14217 Mar 06 04:24	25°♂♂26'05	-0°41'43	evening set	14223 Mar 05 07:16	4°♂♂08'58	
min. Earth dist.	14217 Mar 06 20:29	25°♂♂20'45	3.97014 AU				
direct	14217 May 04 07:49	20°♂♂29'43		conjunction	14223 Mar 18 12:24	6°♂♂59'19	0°23'16
	14217 Jul 24 11:30	0°♂♂♂		minimum elong	14223 Mar 18 12:25	6°♂♂59'19	0°23'15
evening set	14217 Sep 08 11:40	10°♂♂29'14		max. Earth dist.	14223 Mar 19 01:47	7°♂♂06'31	6.45819 AU
				morning rise	14223 Mar 31 16:08	9°♂♂48'52	
conjunction	14217 Sep 21 17:08	13°♂♂42'44	-0°19'45	retrograde	14223 Jul 31 02:39	26°♂♂37'28	

opposition	14223 Sep 30 03:41	21°  40'37	0°22'50			14229 Jun 30 23:25	0° 	
min. Earth dist.	14223 Sep 30 04:27	21°  40'22	4.49418 AU	evening set		14229 Sep 13 14:38	15°  43'01	
direct	14223 Dec 01 06:35	16°  40'00						
	14224 Mar 17 01:02	0° 		conjunction		14229 Sep 26 21:02	18°  57'21	-0°17'07
evening set	14224 Apr 03 22:19	3°  43'33		minimum elong		14229 Sep 26 21:03	18°  57'21	0°16'52
				max. Earth dist.		14229 Sep 26 20:01	18°  56'43	5.91277 AU
conjunction	14224 Apr 16 23:30	6°  30'27	0°07'25	morning rise		14229 Oct 10 04:59	22°  12'42	
minimum elong	14224 Apr 16 23:30	6°  30'27	0°06'53			14229 Nov 12 09:47	0° 	
behind sun begin	14224 Apr 16 16:03	6°  26'29		retrograde		14230 Feb 18 17:51	13°  10'32	
behind sun end	14224 Apr 17 06:58	6°  34'25		opposition		14230 Apr 18 23:12	8°  10'38	-0°09'22
max. Earth dist.	14224 Apr 16 07:23	6°  21'51	6.50886 AU	min. Earth dist.		14230 Apr 18 11:36	8°  10'43	3.89704 AU
morning rise	14224 Apr 29 23:09	9°  16'35		direct		14230 Jun 16 03:12	3°  10'52	
	14224 May 27 18:48	15° 		asc. node		14230 Aug 06 23:06	7°  12'44	
retrograde	14224 Aug 28 19:17	25°  52'48				14230 Sep 15 22:49	15° 	
desc. node	14224 Sep 24 09:20	24°  48'13		evening set		14230 Oct 21 16:56	23°  12'03	
opposition	14224 Oct 28 23:19	20°  58'00	-0°02'24					
min. Earth dist.	14224 Oct 29 18:46	20°  51'46	4.50151 AU	conjunction		14230 Nov 04 04:14	26°  13'25	0°04'49
direct	14224 Dec 30 11:15	15°  57'13		minimum elong		14230 Nov 04 04:13	26°  13'25	0°05'38
	14225 Apr 19 11:27	0° 		behind sun begin		14230 Nov 03 20:12	26°  13'33	
evening set	14225 May 04 01:31	3°  10'45		behind sun end		14230 Nov 04 12:14	26°  14'16	
max. Earth dist.	14225 May 15 08:50	5°  13'05	6.47202 AU	max. Earth dist.		14230 Nov 05 14:38	26°  15'23	5.91027 AU
				morning rise		14230 Nov 17 17:30	29°  15'11	
conjunction	14225 May 16 23:41	5°  15'51	-0°10'26			14230 Nov 18 01:28	0° 	
minimum elong	14225 May 16 23:41	5°  15'51	0°11'21	retrograde		14231 Mar 28 19:52	20°  13'32	
behind sun begin	14225 May 16 17:51	5°  14'48		min. Earth dist.		14231 May 25 19:28	15°  14'57	3.95154 AU
behind sun end	14225 May 17 05:31	5°  15'59		opposition		14231 May 27 03:51	15°  13'05	0°23'55
morning rise	14225 May 29 20:07	8°  13'38		direct		14231 Jul 24 07:54	10°  13'45	
retrograde	14225 Sep 28 09:35	25°  13'22				14231 Nov 27 03:46	0° 	
opposition	14225 Nov 28 11:40	20°  13'48	-0°27'26	evening set		14231 Nov 28 15:35	0° 	
min. Earth dist.	14225 Nov 29 21:09	20°  12'57	4.42277 AU					
direct	14226 Jan 29 18:40	15°  13'38		conjunction		14231 Dec 12 04:56	3°  13'52	0°24'22
	14226 May 19 20:11	0° 		minimum elong		14231 Dec 12 04:55	3°  13'52	0°25'25
evening set	14226 Jun 03 16:47	3°  13'17		max. Earth dist.		14231 Dec 14 13:31	4°  10'27	6.01535 AU
max. Earth dist.	14226 Jun 14 07:11	5°  13'58	6.35607 AU	morning rise		14231 Dec 25 19:29	6°  14'56	
				retrograde		14232 May 02 14:30	26°  12'52	
conjunction	14226 Jun 16 13:12	6°  13'58	-0°25'47	min. Earth dist.		14232 Jun 29 17:46	21°  13'24	4.09479 AU
minimum elong	14226 Jun 16 13:11	6°  13'58	0°26'50	opposition		14232 Jul 01 07:51	21°  14'32	0°46'14
morning rise	14226 Jun 29 08:41	8°  15'42		direct		14232 Aug 29 08:03	16°  12'39	
retrograde	14226 Oct 31 00:13	26°  15'38				14232 Dec 09 22:08	0° 	
opposition	14226 Dec 30 16:26	21°  14'44	-0°46'09	evening set		14233 Jan 02 21:43	5°  19'39	
min. Earth dist.	14227 Jan 01 08:16	21°  18'52	4.27617 AU					
direct	14227 Mar 02 05:49	16°  14'54		conjunction		14233 Jan 16 09:50	8°  14'13	0°34'08
	14227 Jun 13 00:36	0° 		minimum elong		14233 Jan 16 09:50	8°  14'13	0°35'01
evening set	14227 Jul 05 18:38	5°  10'41		max. Earth dist.		14233 Jan 18 18:49	8°  15'42	6.18275 AU
max. Earth dist.	14227 Jul 16 10:05	7°  13'05	6.18947 AU	morning rise		14233 Jan 29 22:01	11°  18'28	
						14233 Feb 14 17:57	15° 	
conjunction	14227 Jul 18 15:55	8°  10'58	-0°34'14	retrograde		14233 Jun 04 13:58	29°  15'58	
minimum elong	14227 Jul 18 15:55	8°  10'58	0°35'09	opposition		14233 Aug 03 20:56	24°  15'06	0°51'05
morning rise	14227 Jul 31 12:57	10°  15'54		min. Earth dist.		14233 Aug 02 12:32	25°  15'53	4.26992 AU
	14227 Aug 18 05:56	15° 		direct		14233 Oct 03 01:07	19°  15'43	
retrograde	14227 Dec 05 03:04	29°  15'01				14233 Dec 30 04:04	0° 	
opposition	14228 Feb 03 06:57	24°  15'53	-0°51'42	evening set		14234 Feb 05 19:41	7°  15'31	
min. Earth dist.	14228 Feb 04 15:23	24°  14'43	4.10130 AU					
direct	14228 Apr 03 13:59	19°  15'04		conjunction		14234 Feb 19 04:16	10°  14'30	0°32'19
	14228 Jun 27 18:47	0° 		minimum elong		14234 Feb 19 04:17	10°  14'30	0°32'46
evening set	14228 Aug 08 00:45	9°  15'35		max. Earth dist.		14234 Feb 20 17:09	11°  14'47	6.35151 AU
max. Earth dist.	14228 Aug 19 13:39	12°  15'00	6.02142 AU	morning rise		14234 Mar 04 12:11	13°  14'50	
						14234 Jun 08 14:40	0° 	
conjunction	14228 Aug 21 01:26	12°  15'22	-0°31'43	retrograde		14234 Jul 05 11:45	1°  15'06	
minimum elong	14228 Aug 21 01:27	12°  15'22	0°32'09			14234 Aug 01 04:31	30° 	
morning rise	14228 Sep 03 03:06	15° 15'29		opposition		14234 Sep 04 05:37	26° 15'07	0°40'25
	14228 Nov 10 17:13	0°		min. Earth dist.		14234 Sep 03 13:34	26° 15'12	4.41951 AU
retrograde	14229 Jan 10 19:55	5° 15'32		direct		14234 Nov 04 14:55	21° 15'07	
opposition	14229 Mar 11 09:22	0° 15'35	-0°38'45			14235 Jan 26 18:44	0°	
min. Earth dist.	14229 Mar 11 22:54	0° 15'31	3.95555 AU	evening set		14235 Mar 09 14:56	8° 15'26	
	14229 Mar 15 20:44	30°						
direct	14229 May 09 10:00	25° 15'39		conjunction		14235 Mar 22 19:32	11° 15'16	0°21'20

minimum elong	14235 Mar 22 19:33	11° Υ 16'20	0°21'14	evening set	14240 Aug 12 18:56	14° η 09'22	
max. Earth dist.	14235 Mar 23 05:46	11° Υ 21'49	6.47146 AU				
morning rise	14235 Apr 04 22:41	14° Υ 05'09		conjunction	14240 Aug 25 20:29	17° η 17'16	-0°30'24
	14235 Jul 11 22:19	0° \mathcal{B}		minimum elong	14240 Aug 25 20:30	17° η 17'17	0°30'45
retrograde	14235 Aug 04 04:01	0° \mathcal{B} 49'45		max. Earth dist.	14240 Aug 24 12:09	16° η 57'50	5.99962 AU
	14235 Aug 27 08:50	30° $\mathcal{R}\Upsilon$		morning rise	14240 Sep 07 22:54	20° η 25'59	
opposition	14235 Oct 04 06:55	25° Υ 53'12	0°19'32		14240 Oct 20 01:48	0° $\underline{\mathcal{A}}$	
min. Earth dist.	14235 Oct 04 09:16	25° Υ 52'26	4.50290 AU	retrograde	14241 Jan 16 01:15	10° $\underline{\mathcal{A}}$ 38'53	
direct	14235 Dec 05 11:10	20° Υ 52'34		opposition	14241 Mar 16 12:23	5° $\underline{\mathcal{A}}$ 41'32	-0°35'34
	14236 Feb 28 18:23	0° \mathcal{B}		min. Earth dist.	14241 Mar 16 23:22	5° $\underline{\mathcal{A}}$ 37'53	3.93766 AU
evening set	14236 Apr 08 02:21	7° \mathcal{B} 54'19		direct	14241 May 14 08:08	0° $\underline{\mathcal{A}}$ 45'34	
max. Earth dist.	14236 Apr 20 08:53	10° \mathcal{B} 31'09	6.51254 AU	evening set	14241 Sep 18 16:51	20° $\underline{\mathcal{A}}$ 55'02	
conjunction	14236 Apr 21 03:06	10° \mathcal{B} 40'52	0°05'01	conjunction	14241 Oct 01 23:59	24° $\underline{\mathcal{A}}$ 10'21	-0°14'24
minimum elong	14236 Apr 21 03:05	10° \mathcal{B} 40'52	0°04'25	minimum elong	14241 Oct 01 24:00	24° $\underline{\mathcal{A}}$ 10'22	0°14'04
behind sun begin	14236 Apr 20 19:12	10° \mathcal{B} 36'41		behind sun begin	14241 Oct 01 19:51	24° $\underline{\mathcal{A}}$ 07'50	
behind sun end	14236 Apr 21 10:57	10° \mathcal{B} 45'03		behind sun end	14241 Oct 02 04:08	24° $\underline{\mathcal{A}}$ 12'54	
morning rise	14236 May 04 02:01	13° \mathcal{B} 26'37		max. Earth dist.	14241 Oct 02 02:05	24° $\underline{\mathcal{A}}$ 11'38	5.90050 AU
	14236 May 11 11:06	15° \mathcal{B}		morning rise	14241 Oct 15 09:04	27° $\underline{\mathcal{A}}$ 26'47	
desc. node	14236 Aug 08 13:53	29° \mathcal{B} 08'29			14241 Oct 25 22:35	0° \mathcal{M}	
	14236 Aug 27 21:43	0° \mathcal{I}			14242 Jan 09 02:11	15° \mathcal{M}	
retrograde	14236 Sep 01 21:17	0° \mathcal{I} 02'19		retrograde	14242 Feb 24 00:47	18° \mathcal{M} 19'14	
	14236 Sep 06 21:01	30° $\mathcal{R}\mathcal{B}$			14242 Apr 11 12:31	15° $\mathcal{R}\mathcal{M}$	
opposition	14236 Nov 02 02:14	25° \mathcal{B} 07'45	-0°05'55	opposition	14242 Apr 24 05:51	13° \mathcal{M} 18'57	-0°04'43
min. Earth dist.	14236 Nov 02 23:58	25° \mathcal{B} 00'48	4.49985 AU	min. Earth dist.	14242 Apr 23 14:21	13° \mathcal{M} 24'11	3.89196 AU
direct	14237 Jan 03 15:19	20° \mathcal{B} 07'01		asc. node	14242 Jun 17 06:05	8° \mathcal{M} 25'26	
	14237 Apr 02 17:37	0° \mathcal{I}		direct	14242 Jun 21 07:46	8° \mathcal{M} 23'42	
evening set	14237 May 08 04:41	7° \mathcal{I} 15'39			14242 Aug 25 21:04	15° \mathcal{M}	
max. Earth dist.	14237 May 19 07:30	9° \mathcal{I} 39'34	6.46492 AU	evening set	14242 Oct 26 23:23	28° \mathcal{M} 39'42	
					14242 Nov 01 11:42	0° \mathcal{J}	
conjunction	14237 May 21 02:19	10° \mathcal{I} 02'44	-0°12'43	conjunction	14242 Nov 09 11:22	1° \mathcal{J} 56'44	0°07'49
minimum elong	14237 May 21 02:18	10° \mathcal{I} 02'44	0°13'40	minimum elong	14242 Nov 09 11:21	1° \mathcal{J} 56'44	0°08'42
behind sun begin	14237 May 20 21:57	10° \mathcal{I} 00'23		behind sun begin	14242 Nov 09 04:08	1° \mathcal{J} 52'21	
behind sun end	14237 May 21 06:38	10° \mathcal{I} 05'04		behind sun end	14242 Nov 09 18:35	2° \mathcal{J} 01'07	
morning rise	14237 Jun 02 22:34	12° \mathcal{I} 49'17		max. Earth dist.	14242 Nov 11 02:30	2° \mathcal{J} 20'35	5.91302 AU
retrograde	14237 Oct 02 16:21	29° \mathcal{I} 46'51		morning rise	14242 Nov 23 01:05	5° \mathcal{J} 14'34	
opposition	14237 Dec 02 17:29	24° \mathcal{I} 53'05	-0°30'24	retrograde	14243 Apr 03 00:12	25° \mathcal{J} 49'48	
min. Earth dist.	14237 Dec 04 04:51	24° \mathcal{I} 41'45	4.41040 AU	min. Earth dist.	14243 May 30 22:35	20° \mathcal{J} 58'23	3.96161 AU
direct	14238 Feb 03 00:03	19° \mathcal{I} 52'32		opposition	14243 Jun 01 08:08	20° \mathcal{J} 47'00	0°27'53
	14238 May 03 03:43	0° \mathcal{E}		direct	14243 Jul 29 14:07	15° \mathcal{J} 50'42	
evening set	14238 Jun 07 21:46	7° \mathcal{E} 31'44			14243 Nov 09 19:02	0° \mathcal{Z}	
max. Earth dist.	14238 Jun 18 11:26	9° \mathcal{E} 52'31	6.33917 AU	evening set	14243 Dec 03 20:28	5° \mathcal{Z} 32'27	
conjunction	14238 Jun 20 18:14	10° \mathcal{E} 23'03	-0°27'22	conjunction	14243 Dec 17 09:59	8° \mathcal{Z} 44'30	0°26'22
minimum elong	14238 Jun 20 18:13	10° \mathcal{E} 23'03	0°28'26	minimum elong	14243 Dec 17 09:58	8° \mathcal{Z} 44'30	0°27'26
morning rise	14238 Jul 03 13:36	13° \mathcal{E} 14'10		max. Earth dist.	14243 Dec 19 21:45	9° \mathcal{Z} 19'48	6.03169 AU
	14238 Oct 09 12:36	0° \mathcal{O}		morning rise	14243 Dec 31 00:27	11° \mathcal{Z} 56'44	
retrograde	14238 Nov 04 11:50	1° \mathcal{O} 02'33			14244 Apr 07 00:01	0° \approx	
	14238 Nov 30 12:03	30° $\mathcal{R}\mathcal{E}$		retrograde	14244 May 07 09:53	1° \approx 28'54	
opposition	14239 Jan 04 03:55	26° \mathcal{E} 08'34	-0°47'43		14244 Jun 06 16:02	30° $\mathcal{R}\mathcal{Z}$	
min. Earth dist.	14239 Jan 05 19:30	25° \mathcal{E} 55'47	4.25564 AU	min. Earth dist.	14244 Jul 04 13:40	26° \mathcal{Z} 38'51	4.11556 AU
direct	14239 Mar 06 13:30	21° \mathcal{E} 08'54		opposition	14244 Jul 06 05:00	26° \mathcal{Z} 25'36	0°47'56
	14239 May 26 09:46	0° \mathcal{O}		direct	14244 Sep 03 07:54	21° \mathcal{Z} 27'27	
evening set	14239 Jul 10 05:06	9° \mathcal{O} 37'58			14244 Nov 20 15:14	0° \approx	
max. Earth dist.	14239 Jul 20 20:52	12° \mathcal{O} 05'36	6.16674 AU	evening set	14245 Jan 07 20:17	10° \approx 13'15	
conjunction	14239 Jul 23 02:32	12° \mathcal{O} 36'42	-0°34'34	conjunction	14245 Jan 21 07:53	13° \approx 16'35	0°34'30
minimum elong	14239 Jul 23 02:32	12° \mathcal{O} 36'42	0°35'24	minimum elong	14245 Jan 21 07:53	13° \approx 16'35	0°35'20
	14239 Aug 02 10:01	15° \mathcal{O}		max. Earth dist.	14245 Jan 23 14:31	13° \approx 47'35	6.20591 AU
morning rise	14239 Aug 05 00:04	15° \mathcal{O} 35'47			14245 Jan 28 22:25	15° \approx	
	14239 Oct 15 05:37	0° \mathcal{M}		morning rise	14245 Feb 03 19:41	16° \approx 19'37	
retrograde	14239 Dec 10 01:22	4° \mathcal{M} 36'09			14245 Apr 14 01:42	0° \mathcal{H}	
	14240 Feb 05 16:16	30° $\mathcal{R}\mathcal{O}$		retrograde	14245 Jun 09 02:13	4° \mathcal{H} 36'20	
opposition	14240 Feb 08 02:23	29° \mathcal{O} 40'58	-0°51'02		14245 Aug 05 05:58	30° $\mathcal{R}\approx$	
min. Earth dist.	14240 Feb 09 10:03	29° \mathcal{O} 30'35	4.07790 AU	min. Earth dist.	14245 Aug 07 04:01	29° \approx 44'43	4.29318 AU
direct	14240 Apr 08 06:12	24° \mathcal{O} 42'59		opposition	14245 Aug 08 10:23	29° \approx 34'38	0°50'20
	14240 Jun 06 14:16	0° \mathcal{M}					

direct	14245 Oct 07 19:38	24° \approx 34'58		retrograde	14250 Nov 09 07:00	5° Ω 41'16	
	14245 Dec 08 19:10	0° \mathbb{X}		opposition	14251 Jan 08 20:32	0° Ω 47'09	-0°49'09
evening set	14246 Feb 10 10:11	12° \mathbb{X} 26'47		min. Earth dist.	14251 Jan 10 12:12	0° Ω 34'18	4.23033 AU
					14251 Jan 14 22:37	30° \mathbb{R} \mathfrak{E}	
conjunction	14246 Feb 23 18:20	15° \mathbb{X} 21'40	0°31'12	direct	14251 Mar 11 02:51	25° \mathfrak{E} 47'34	
minimum elong	14246 Feb 23 18:21	15° \mathbb{X} 21'40	0°31'34		14251 May 03 15:13	0° Ω	
max. Earth dist.	14246 Feb 25 05:38	15° \mathbb{X} 40'59	6.37290 AU	evening set	14251 Jul 14 21:03	14° Ω 24'57	
morning rise	14246 Mar 09 01:26	18° \mathbb{X} 15'50			14251 Jul 17 09:40	15° Ω	
	14246 May 08 02:09	0° \mathbb{Y}		max. Earth dist.	14251 Jul 25 15:38	16° Ω 55'02	6.14049 AU
retrograde	14246 Jul 09 16:07	5° \mathbb{Y} 31'17					
opposition	14246 Sep 08 12:40	0° \mathbb{Y} 32'22	0°37'53	conjunction	14251 Jul 27 19:04	17° Ω 25'00	-0°34'42
min. Earth dist.	14246 Sep 07 22:01	0° \mathbb{Y} 37'09	4.43735 AU	minimum elong	14251 Jul 27 19:04	17° Ω 25'00	0°35'29
	14246 Sep 12 16:05	30° \mathbb{R} \mathbb{X}		morning rise	14251 Aug 09 17:01	20° Ω 25'26	
direct	14246 Nov 09 00:25	25° \mathbb{X} 32'00			14251 Sep 22 08:55	0° \mathbb{N}	
	14247 Jan 04 19:26	0° \mathbb{Y}		retrograde	14251 Dec 15 05:50	9° \mathbb{N} 37'01	
evening set	14247 Mar 13 23:22	12° \mathbb{Y} 46'37		opposition	14252 Feb 13 04:19	4° \mathbb{N} 41'38	-0°49'59
				min. Earth dist.	14252 Feb 14 10:03	4° \mathbb{N} 31'53	4.05298 AU
conjunction	14247 Mar 27 03:14	15° \mathbb{Y} 35'29	0°19'13		14252 Mar 31 08:30	30° \mathbb{R} Ω	
minimum elong	14247 Mar 27 03:15	15° \mathbb{Y} 35'29	0°19'03	direct	14252 Apr 13 02:27	29° Ω 43'58	
max. Earth dist.	14247 Mar 27 08:44	15° \mathbb{Y} 38'25	6.48431 AU		14252 Apr 25 20:46	0° \mathbb{N}	
morning rise	14247 Apr 09 05:44	18° \mathbb{Y} 23'33		evening set	14252 Aug 17 19:46	19° \mathbb{N} 18'34	
	14247 Jun 09 02:58	0° \mathbb{B}					
retrograde	14247 Aug 08 08:11	5° \mathbb{B} 04'17		conjunction	14252 Aug 30 21:56	22° \mathbb{N} 27'48	-0°28'46
opposition	14247 Oct 08 11:01	0° \mathbb{B} 08'03	0°16'04	minimum elong	14252 Aug 30 21:57	22° \mathbb{N} 27'48	0°29'01
min. Earth dist.	14247 Oct 08 17:05	0° \mathbb{B} 06'06	4.50987 AU	max. Earth dist.	14252 Aug 29 16:23	22° \mathbb{N} 09'57	5.97832 AU
	14247 Oct 09 12:01	30° \mathbb{R} \mathbb{Y}		morning rise	14252 Sep 13 01:26	25° \mathbb{N} 37'58	
direct	14247 Dec 09 18:32	25° \mathbb{Y} 07'19			14252 Oct 01 12:39	0° \mathfrak{L}	
	14248 Feb 07 19:21	0° \mathbb{B}		retrograde	14253 Jan 21 11:19	16° \mathfrak{L} 00'05	
evening set	14248 Apr 12 07:20	12° \mathbb{B} 07'50		opposition	14253 Mar 21 21:49	11° \mathfrak{L} 02'23	-0°31'53
max. Earth dist.	14248 Apr 24 08:51	14° \mathbb{B} 42'03	6.51298 AU	min. Earth dist.	14253 Mar 22 04:35	11° \mathfrak{L} 00'07	3.92238 AU
				direct	14253 May 19 13:41	6° \mathfrak{L} 06'37	
conjunction	14248 Apr 25 07:32	14° \mathbb{B} 54'09	0°02'29	evening set	14253 Sep 24 01:03	26° \mathfrak{L} 20'36	
minimum elong	14248 Apr 25 07:32	14° \mathbb{B} 54'09	0°01'49				
behind sun begin	14248 Apr 24 23:30	14° \mathbb{B} 49'53		conjunction	14253 Oct 07 09:09	29° \mathfrak{L} 36'43	-0°11'25
behind sun end	14248 Apr 25 15:33	14° \mathbb{B} 58'25		minimum elong	14253 Oct 07 09:09	29° \mathfrak{L} 36'44	0°11'00
	14248 Apr 25 18:31	15° \mathbb{B}		behind sun begin	14253 Oct 07 02:54	29° \mathfrak{L} 32'54	
morning rise	14248 May 08 06:03	17° \mathbb{B} 39'43		behind sun end	14253 Oct 07 15:24	29° \mathfrak{L} 40'33	
desc. node	14248 Jun 19 08:36	26° \mathbb{B} 05'35		max. Earth dist.	14253 Oct 07 18:04	29° \mathfrak{L} 42'11	5.89315 AU
	14248 Jul 13 04:43	0° \mathbb{I}			14253 Oct 08 23:03	0° \mathbb{L}	
retrograde	14248 Sep 06 01:35	4° \mathbb{I} 16'02		morning rise	14253 Oct 20 18:57	2° \mathbb{L} 53'53	
	14248 Nov 01 06:39	30° \mathbb{R} \mathbb{B}			14253 Dec 13 06:40	15° \mathbb{L}	
opposition	14248 Nov 06 07:00	29° \mathbb{B} 21'35	-0°09'34	retrograde	14254 Mar 01 13:28	23° \mathbb{L} 48'20	
min. Earth dist.	14248 Nov 07 06:41	29° \mathbb{B} 14'00	4.49378 AU	asc. node	14254 Apr 27 07:16	19° \mathbb{L} 07'09	
direct	14249 Jan 07 19:38	24° \mathbb{B} 20'46		opposition	14254 Apr 29 16:57	18° \mathbb{L} 47'40	0°00'13
	14249 Mar 13 18:32	0° \mathbb{I}		min. Earth dist.	14254 Apr 28 22:52	18° \mathbb{L} 53'47	3.89362 AU
evening set	14249 May 12 09:45	11° \mathbb{I} 31'49			14254 May 31 22:57	15° \mathbb{R} \mathbb{L}	
max. Earth dist.	14249 May 23 10:57	13° \mathbb{I} 55'14	6.45267 AU	direct	14254 Jun 26 18:36	13° \mathbb{L} 52'25	
					14254 Jul 22 12:40	15° \mathbb{L}	
conjunction	14249 May 25 07:11	14° \mathbb{I} 19'14	-0°15'03		14254 Oct 15 04:18	0° \mathbb{J}	
minimum elong	14249 May 25 07:10	14° \mathbb{I} 19'13	0°16'01	evening set	14254 Nov 01 09:35	4° \mathbb{J} 06'20	
behind sun begin	14249 May 25 06:31	14° \mathbb{I} 18'52					
behind sun end	14249 May 25 07:49	14° \mathbb{I} 19'34		conjunction	14254 Nov 14 22:03	7° \mathbb{J} 23'06	0°10'54
morning rise	14249 Jun 07 03:00	17° \mathbb{I} 06'06		minimum elong	14254 Nov 14 22:03	7° \mathbb{J} 23'06	0°11'48
	14249 Aug 14 06:34	0° \mathfrak{E}		behind sun begin	14254 Nov 14 16:14	7° \mathbb{J} 19'35	
retrograde	14249 Oct 07 01:56	4° \mathfrak{E} 08'46		behind sun end	14254 Nov 15 03:52	7° \mathbb{J} 26'37	
	14249 Dec 01 05:38	30° \mathbb{R} \mathbb{I}		max. Earth dist.	14254 Nov 16 18:34	7° \mathbb{J} 50'08	5.92355 AU
opposition	14249 Dec 07 02:33	29° \mathbb{I} 15'03	-0°33'24	morning rise	14254 Nov 28 12:10	10° \mathbb{J} 40'34	
min. Earth dist.	14249 Dec 08 15:29	29° \mathbb{I} 03'13	4.39261 AU		14255 Mar 12 16:24	0° \mathfrak{Z}	
direct	14250 Feb 07 07:16	24° \mathbb{I} 14'33		retrograde	14255 Apr 08 04:21	1° \mathfrak{Z} 08'59	
	14250 Apr 13 00:49	0° \mathfrak{E}			14255 May 04 13:14	30° \mathbb{R} \mathbb{J}	
evening set	14250 Jun 12 06:54	11° \mathfrak{E} 59'35		min. Earth dist.	14255 Jun 05 01:24	26° \mathbb{J} 18'18	3.97992 AU
max. Earth dist.	14250 Jun 22 18:06	14° \mathfrak{E} 19'45	6.31696 AU	opposition	14255 Jun 06 13:40	26° \mathbb{J} 06'01	0°31'43
				direct	14255 Aug 03 20:40	21° \mathbb{J} 09'32	
conjunction	14250 Jun 25 03:10	14° \mathfrak{E} 51'43	-0°28'55		14255 Oct 21 05:25	0° \mathfrak{Z}	
minimum elong	14250 Jun 25 03:10	14° \mathfrak{E} 51'43	0°29'58	evening set	14255 Dec 09 01:49	10° \mathfrak{Z} 43'46	
morning rise	14250 Jul 07 22:48	17° \mathfrak{E} 43'47					
	14250 Sep 07 00:02	0° Ω		conjunction	14255 Dec 22 15:04	13° \mathfrak{Z} 54'36	0°28'14

minimum elong	14255 Dec 22 15:03	13°  54'36	0°29'16	evening set	14261 May 16 14:47	15°  48'49	
max. Earth dist.	14255 Dec 25 02:40	14°  29'36	6.05572 AU	max. Earth dist.	14261 May 27 11:32	18°  10'24	6.43571 AU
morning rise	14256 Jan 05 05:25	17°  05'36					
	14256 Mar 06 13:41	0°  ≈		conjunction	14261 May 29 11:55	18°  36'45	-0°17'18
retrograde	14256 May 12 03:57	6°  ≈26'31		minimum elong	14261 May 29 11:54	18°  36'45	0°18'18
min. Earth dist.	14256 Jul 09 10:29	1°  ≈36'17	4.14261 AU	morning rise	14261 Jun 11 07:44	21°  24'15	
opposition	14256 Jul 11 01:08	1°  ≈23'17	0°49'18		14261 Jul 23 06:38	0°  ☾	
	14256 Jul 21 12:25	30°  R 		retrograde	14261 Oct 11 13:33	8°  ☾33'45	
direct	14256 Sep 08 08:49	26°  S24'51		opposition	14261 Dec 11 12:35	3°  ☾40'01	-0°36'15
	14256 Oct 26 23:02	0°  ≈		min. Earth dist.	14261 Dec 13 02:14	3°  ☾27'56	4.37024 AU
evening set	14257 Jan 12 16:45	15°  ≈01'36			14262 Jan 12 16:14	30°  R 	
	14257 Jan 12 13:53	15°  ≈		direct	14262 Feb 11 13:55	28°  II39'34	
					14262 Mar 13 12:47	0°  ☾	
conjunction	14257 Jan 26 04:02	18°  ≈03'35	0°34'40	evening set	14262 Jun 16 17:01	16°  ☾31'58	
minimum elong	14257 Jan 26 04:02	18°  ≈03'35	0°35'27	max. Earth dist.	14262 Jun 27 05:23	18°  ☾53'34	6.29086 AU
max. Earth dist.	14257 Jan 28 10:03	18°  ≈34'02	6.23368 AU				
morning rise	14257 Feb 08 15:01	21°  ≈05'06		conjunction	14262 Jun 29 13:35	19°  ☾25'13	-0°30'18
	14257 Mar 22 21:04	0°  X		minimum elong	14262 Jun 29 13:34	19°  ☾25'13	0°31'20
retrograde	14257 Jun 13 10:58	9°  X11'00		morning rise	14262 Jul 12 09:16	22°  ☾18'24	
opposition	14257 Aug 12 21:13	4°  X09'43	0°49'19		14262 Aug 17 04:10	0°  Ω	
min. Earth dist.	14257 Aug 11 16:19	4°  X19'16	4.31921 AU	retrograde	14262 Nov 14 04:49	10°  Ω26'30	
	14257 Sep 19 10:15	30°  R≈		opposition	14263 Jan 13 15:41	5°  Ω32'18	-0°50'18
direct	14257 Oct 12 10:10	29°  ≈09'57		min. Earth dist.	14263 Jan 15 07:01	5°  Ω19'33	4.20236 AU
	14257 Nov 04 16:02	0°  X		direct	14263 Mar 15 17:16	0°  Ω33'00	
evening set	14258 Feb 14 22:12	16°  X54'26			14263 Jun 30 16:24	15°  Ω	
				evening set	14263 Jul 19 15:36	19°  Ω19'30	
conjunction	14258 Feb 28 05:33	19°  X48'09	0°29'56	max. Earth dist.	14263 Jul 30 11:38	21°  Ω51'25	6.11301 AU
minimum elong	14258 Feb 28 05:34	19°  X48'09	0°30'13				
max. Earth dist.	14258 Mar 01 11:23	20°  X04'24	6.39516 AU	conjunction	14263 Aug 01 13:58	22°  Ω20'55	-0°34'36
morning rise	14258 Mar 13 12:06	22°  X41'10		minimum elong	14263 Aug 01 13:58	22°  Ω20'56	0°35'20
	14258 Apr 17 21:21	0°  Y		morning rise	14263 Aug 14 12:44	25°  Ω22'53	
retrograde	14258 Jul 13 20:31	9°  Y49'21			14263 Sep 03 16:12	0°  η	
opposition	14258 Sep 12 17:27	4°  Y50'51	0°35'14	retrograde	14263 Dec 20 12:05	14°  η46'11	
min. Earth dist.	14258 Sep 12 06:29	4°  Y54'26	4.45439 AU	opposition	14264 Feb 18 09:11	9°  η50'29	-0°48'34
	14258 Nov 03 04:53	30°  R  X		min. Earth dist.	14264 Feb 19 11:23	9°  η41'51	4.02857 AU
direct	14258 Nov 13 09:07	29°  X50'23		direct	14264 Apr 18 02:17	4°  η53'06	
	14258 Nov 23 14:42	0°  Y		evening set	14264 Aug 22 23:18	24°  η35'27	
evening set	14259 Mar 18 05:01	17°  Y01'01		max. Earth dist.	14264 Sep 04 03:28	27°  η32'03	5.95962 AU
conjunction	14259 Mar 31 08:29	19°  Y49'18	0°17'03	conjunction	14264 Sep 05 02:25	27°  η45'57	-0°26'54
minimum elong	14259 Mar 31 08:30	19°  Y49'18	0°16'48	minimum elong	14264 Sep 05 02:26	27°  η45'58	0°27'02
max. Earth dist.	14259 Mar 31 10:39	19°  Y50'27	6.49494 AU		14264 Sep 14 07:36	0°  ♄	
morning rise	14259 Apr 13 10:16	22°  Y36'43		morning rise	14264 Sep 18 06:40	0°  ♄57'23	
	14259 May 19 21:29	0°  X		retrograde	14265 Jan 27 01:24	21°  ♄27'12	
retrograde	14259 Aug 12 09:03	9°  X14'48		opposition	14265 Mar 27 09:16	16°  ♄29'03	-0°27'52
opposition	14259 Oct 12 13:24	4°  X18'53	0°12'34	min. Earth dist.	14265 Mar 27 12:53	16°  ♄27'51	3.91161 AU
min. Earth dist.	14259 Oct 12 21:33	4°  X16'16	4.51360 AU	direct	14265 May 24 22:49	11°  ♄33'28	
	14259 Nov 22 08:20	30°  R  Y			14265 Sep 21 21:52	0°  ♍	
direct	14259 Dec 13 21:17	29°  Y18'09		evening set	14265 Sep 29 10:34	1°  ♍49'39	
	14260 Jan 04 15:49	0°  X					
	14260 Apr 10 05:44	15°  X		conjunction	14265 Oct 12 19:23	5°  ♍06'13	-0°08'19
evening set	14260 Apr 16 10:47	16°  X18'38		minimum elong	14265 Oct 12 19:23	5°  ♍06'14	0°07'48
max. Earth dist.	14260 Apr 28 07:55	18°  X50'40	6.50950 AU	behind sun begin	14265 Oct 12 11:54	5°  ♍01'39	
desc. node	14260 Apr 28 03:01	18°  X48'02		behind sun end	14265 Oct 13 02:53	5°  ♍10'48	
				max. Earth dist.	14265 Oct 13 10:06	5°  ♍15'14	5.89133 AU
conjunction	14260 Apr 29 10:29	19°  X04'52	-0°00'05	morning rise	14265 Oct 26 06:03	8°  ♍23'50	
minimum elong	14260 Apr 29 10:28	19°  X04'52	0°00'49		14265 Nov 23 02:27	15°  ♍	
behind sun begin	14260 Apr 29 02:28	19°  X00'36		retrograde	14266 Mar 06 22:53	29°  ♍17'17	
behind sun end	14260 Apr 29 18:29	19°  X09'08		asc. node	14266 Mar 08 18:25	29°  ♍16'57	
morning rise	14260 May 12 08:32	21°  X50'24		min. Earth dist.	14266 May 04 05:21	24°  ♍23'41	3.90112 AU
	14260 Jun 21 21:44	0°  II		opposition	14266 May 05 03:37	24°  ♍16'09	0°05'07
retrograde	14260 Sep 10 07:07	8°  II28'51		direct	14266 Jul 02 03:55	19°  ♍20'48	
opposition	14260 Nov 10 11:17	3°  II34'38	-0°13'08		14266 Sep 26 08:27	0°  ♌	
min. Earth dist.	14260 Nov 11 14:17	3°  II25'59	4.48326 AU	evening set	14266 Nov 06 18:45	9°  ♌30'10	
	14260 Dec 11 17:26	30°  R  X					
direct	14261 Jan 12 00:14	28°  X33'49		conjunction	14266 Nov 20 07:22	12°  ♌46'16	0°13'50
	14261 Feb 12 09:22	0°  II		minimum elong	14266 Nov 20 07:21	12°  ♌46'15	0°14'49

behind sun begin	14266 Nov 20 04:09	12° \mathbb{A} 44'19		morning rise	14272 May 16 12:36	26° \mathcal{B} 04'11
behind sun end	14266 Nov 20 10:33	12° \mathbb{A} 48'11			14272 Jun 04 07:18	0° Π
max. Earth dist.	14266 Nov 22 06:20	13° \mathbb{A} 14'40	5.93914 AU	retrograde	14272 Sep 14 13:29	12° Π 45'52
morning rise	14266 Dec 03 21:46	16° \mathbb{A} 03'02		opposition	14272 Nov 14 17:42	7° Π 51'48 -0°16'43
	14267 Feb 06 14:59	0° \mathcal{B}		min. Earth dist.	14272 Nov 15 21:46	7° Π 42'50 4.47002 AU
retrograde	14267 Apr 13 05:28	6° \mathcal{B} 22'46		direct	14273 Jan 16 04:17	2° Π 51'05
min. Earth dist.	14267 Jun 10 03:41	1° \mathcal{B} 32'10	4.00155 AU	evening set	14273 May 20 21:56	20° Π 10'45
opposition	14267 Jun 11 16:53	1° \mathcal{B} 19'33	0°35'13	max. Earth dist.	14273 May 31 17:39	22° Π 32'22 6.41732 AU
	14267 Jun 21 14:52	30° \mathbb{R} \mathbb{A}				
direct	14267 Aug 09 03:45	26° \mathbb{A} 22'43		conjunction	14273 Jun 02 18:53	22° Π 59'20 -0°19'30
	14267 Sep 26 03:15	0° \mathcal{B}		minimum elong	14273 Jun 02 18:53	22° Π 59'20 0°20'32
evening set	14267 Dec 14 04:37	15° \mathcal{B} 48'30		morning rise	14273 Jun 15 14:31	25° Π 47'29
					14273 Jul 05 06:52	0° \mathcal{B}
conjunction	14267 Dec 27 17:50	18° \mathcal{B} 58'05	0°29'50	retrograde	14273 Oct 16 05:06	13° \mathcal{B} 04'20
minimum elong	14267 Dec 27 17:49	18° \mathcal{B} 58'05	0°30'52	opposition	14273 Dec 16 01:31	8° \mathcal{B} 10'43 -0°38'58
max. Earth dist.	14267 Dec 30 06:45	19° \mathcal{B} 33'39	6.08125 AU	min. Earth dist.	14273 Dec 17 16:38	7° \mathcal{B} 58'09 4.34789 AU
morning rise	14268 Jan 10 07:39	22° \mathcal{B} 07'41		direct	14274 Feb 16 00:33	3° \mathcal{B} 10'29
	14268 Feb 14 19:59	0° \approx		evening set	14274 Jun 21 05:51	21° \mathcal{B} 10'12
retrograde	14268 May 16 19:58	11° \approx 17'09		max. Earth dist.	14274 Jul 01 17:26	23° \mathcal{B} 32'10 6.26640 AU
min. Earth dist.	14268 Jul 14 04:54	6° \approx 26'44	4.16937 AU			
opposition	14268 Jul 15 18:33	6° \approx 14'06	0°50'18	conjunction	14274 Jul 04 02:26	24° \mathcal{B} 04'28 -0°31'33
direct	14268 Sep 13 06:20	1° \approx 15'27		minimum elong	14274 Jul 04 02:25	24° \mathcal{B} 04'28 0°32'33
	14268 Dec 26 20:29	15° \approx		morning rise	14274 Jul 16 22:31	26° \mathcal{B} 58'47
evening set	14269 Jan 17 10:59	19° \approx 43'41			14274 Jul 30 11:22	0° \mathcal{Q}
					14274 Nov 05 19:33	15° \mathcal{Q}
conjunction	14269 Jan 30 21:38	22° \approx 44'19	0°34'36	retrograde	14274 Nov 19 03:31	15° \mathcal{Q} 16'56
minimum elong	14269 Jan 30 21:38	22° \approx 44'19	0°35'20		14274 Dec 02 11:30	15° \mathbb{R} \mathcal{Q}
max. Earth dist.	14269 Feb 01 23:56	23° \approx 12'30	6.25930 AU	opposition	14275 Jan 18 13:00	10° \mathcal{Q} 22'37 -0°51'10
morning rise	14269 Feb 13 08:11	25° \approx 44'31		min. Earth dist.	14275 Jan 20 02:07	10° \mathcal{Q} 10'33 4.17786 AU
	14269 Mar 04 20:58	0° \mathbb{X}		direct	14275 Mar 20 09:24	5° \mathcal{Q} 23'39
retrograde	14269 Jun 17 18:08	13° \mathbb{X} 40'50			14275 Jun 12 06:33	15° \mathcal{Q}
min. Earth dist.	14269 Aug 16 04:01	8° \mathbb{X} 48'37	4.34181 AU	evening set	14275 Jul 24 11:50	24° \mathcal{Q} 18'00
opposition	14269 Aug 17 06:30	8° \mathbb{X} 39'51	0°48'02	max. Earth dist.	14275 Aug 04 13:17	26° \mathcal{Q} 53'49 6.09089 AU
direct	14269 Oct 16 23:15	3° \mathbb{X} 39'56				
evening set	14270 Feb 19 08:40	21° \mathbb{X} 18'23		conjunction	14275 Aug 06 10:47	27° \mathcal{Q} 20'39 -0°34'18
				minimum elong	14275 Aug 06 10:48	27° \mathcal{Q} 20'39 0°34'58
conjunction	14270 Mar 04 15:37	24° \mathbb{X} 11'11	0°28'30		14275 Aug 17 17:25	0° \mathbb{P}
minimum elong	14270 Mar 04 15:38	24° \mathbb{X} 11'11	0°28'43	morning rise	14275 Aug 19 10:02	0° \mathbb{P} 23'49
max. Earth dist.	14270 Mar 05 18:37	24° \mathbb{X} 25'50	6.41325 AU	retrograde	14275 Dec 25 20:10	19° \mathbb{P} 56'39
morning rise	14270 Mar 17 21:20	27° \mathbb{X} 03'12		opposition	14276 Feb 23 14:45	15° \mathbb{P} 00'43 -0°46'47
	14270 Mar 31 17:51	0° \mathbb{Y}		min. Earth dist.	14276 Feb 24 14:39	14° \mathbb{P} 52'50 4.01107 AU
retrograde	14270 Jul 17 23:28	14° \mathbb{Y} 05'39		direct	14276 Apr 23 04:31	10° \mathbb{P} 03'44
opposition	14270 Sep 16 21:54	9° \mathbb{Y} 07'35	0°32'24	evening set	14276 Aug 28 02:26	29° \mathbb{P} 51'02
min. Earth dist.	14270 Sep 16 13:24	9° \mathbb{Y} 10'21	4.46691 AU		14276 Aug 28 17:18	0° $\underline{\mathcal{A}}$
direct	14270 Nov 17 16:11	4° \mathbb{Y} 07'06		max. Earth dist.	14276 Sep 09 11:47	2° $\underline{\mathcal{A}}$ 51'13 5.94853 AU
evening set	14271 Mar 22 11:08	21° \mathbb{Y} 15'11				
				conjunction	14276 Sep 10 06:11	3° $\underline{\mathcal{A}}$ 02'24 -0°24'52
conjunction	14271 Apr 04 13:53	24° \mathbb{Y} 02'59	0°14'48	minimum elong	14276 Sep 10 06:11	3° $\underline{\mathcal{A}}$ 02'24 0°24'56
minimum elong	14271 Apr 04 13:54	24° \mathbb{Y} 03'00	0°14'28	morning rise	14276 Sep 23 11:21	6° $\underline{\mathcal{A}}$ 14'45
behind sun begin	14271 Apr 04 10:24	24° \mathbb{Y} 01'08		retrograde	14277 Feb 01 10:10	26° $\underline{\mathcal{A}}$ 48'55
behind sun end	14271 Apr 04 17:23	24° \mathbb{Y} 04'51		opposition	14277 Apr 01 18:09	21° $\underline{\mathcal{A}}$ 50'23 -0°23'46
max. Earth dist.	14271 Apr 04 10:23	24° \mathbb{Y} 01'07	6.50101 AU	min. Earth dist.	14277 Apr 01 17:00	21° $\underline{\mathcal{A}}$ 50'46 3.90852 AU
morning rise	14271 Apr 17 15:15	26° \mathbb{Y} 50'01		direct	14277 May 30 04:20	16° $\underline{\mathcal{A}}$ 54'58
	14271 May 02 18:16	0° \mathcal{B}			14277 Sep 04 07:42	0° \mathbb{M}
retrograde	14271 Aug 16 13:29	13° \mathcal{B} 26'48		evening set	14277 Oct 04 17:01	7° \mathbb{M} 10'34
opposition	14271 Oct 16 16:58	8° \mathcal{B} 31'12	0°09'00			
min. Earth dist.	14271 Oct 17 04:49	8° \mathcal{B} 27'24	4.51305 AU	conjunction	14277 Oct 18 02:20	10° \mathbb{M} 27'10 -0°05'18
direct	14271 Dec 18 02:40	3° \mathcal{B} 30'26		minimum elong	14277 Oct 18 02:19	10° \mathbb{M} 27'09 0°04'42
desc. node	14272 Mar 04 04:42	11° \mathcal{B} 09'03		behind sun begin	14277 Oct 17 18:11	10° \mathbb{M} 22'11
	14272 Mar 24 19:01	15° \mathcal{B}		behind sun end	14277 Oct 18 10:27	10° \mathbb{M} 32'07
evening set	14272 Apr 20 15:34	20° \mathcal{B} 32'07		max. Earth dist.	14277 Oct 18 21:23	10° \mathbb{M} 38'50 5.89647 AU
max. Earth dist.	14272 May 02 09:08	23° \mathcal{B} 02'31	6.50231 AU	morning rise	14277 Oct 31 13:36	13° \mathbb{M} 44'46
					14277 Nov 05 17:46	15° \mathbb{M}
conjunction	14272 May 03 14:58	23° \mathcal{B} 18'31	-0°02'39		14278 Jan 16 14:22	0° \mathbb{A}
minimum elong	14272 May 03 14:58	23° \mathcal{B} 18'31	0°03'25	asc. node	14278 Jan 20 08:50	0° \mathbb{A} 34'14
behind sun begin	14272 May 03 07:01	23° \mathcal{B} 14'16		retrograde	14278 Mar 12 02:53	4° \mathbb{A} 34'33
behind sun end	14272 May 03 22:56	23° \mathcal{B} 22'45			14278 May 07 01:23	30° \mathbb{R} \mathbb{M}

min. Earth dist.	14278 May 09 08:33	29° \mathbb{M} 41'21	3.91385 AU			14284 Mar 06 10:21	15° \mathcal{B}	
opposition	14278 May 10 09:02	29° \mathbb{M} 33'03	0°09'43	evening set		14284 Apr 24 19:37	24° \mathcal{B} 44'25	
direct	14278 Jul 07 10:58	24° \mathbb{M} 37'33		max. Earth dist.		14284 May 06 09:04	27° \mathcal{B} 13'01	6.49298 AU
	14278 Sep 04 03:44	0° \mathcal{A}						
evening set	14278 Nov 11 22:32	14° \mathcal{A} 40'52		conjunction		14284 May 07 18:30	27° \mathcal{B} 30'58	-0°05'05
				minimum elong		14284 May 07 18:30	27° \mathcal{B} 30'58	0°05'54
conjunction	14278 Nov 25 11:29	17° \mathcal{A} 56'10	0°16'31	behind sun begin		14284 May 07 10:52	27° \mathcal{B} 26'53	
minimum elong	14278 Nov 25 11:28	17° \mathcal{A} 56'09	0°17'32	behind sun end		14284 May 08 02:08	27° \mathcal{B} 35'03	
max. Earth dist.	14278 Nov 27 14:17	18° \mathcal{A} 26'44	5.95813 AU			14284 May 19 08:18	0° \mathbb{I}	
morning rise	14278 Dec 09 01:48	21° \mathcal{A} 11'59		morning rise		14284 May 20 15:54	0° \mathbb{I} 16'53	
	14279 Jan 16 17:14	0° \mathcal{B}		retrograde		14284 Sep 18 21:37	17° \mathbb{I} 02'15	
retrograde	14279 Apr 18 02:09	11° \mathcal{B} 22'08		opposition		14284 Nov 18 23:53	12° \mathbb{I} 08'16	-0°20'07
min. Earth dist.	14279 Jun 15 00:41	6° \mathcal{B} 31'30	4.02457 AU	min. Earth dist.		14284 Nov 20 06:23	11° \mathbb{I} 58'30	4.45588 AU
opposition	14279 Jun 16 13:57	6° \mathcal{B} 18'53	0°38'15	direct		14285 Jan 20 10:35	7° \mathbb{I} 07'32	
direct	14279 Aug 14 03:53	1° \mathcal{B} 21'51		evening set		14285 May 25 04:34	24° \mathbb{I} 31'47	
evening set	14279 Dec 19 01:31	20° \mathcal{B} 39'17		max. Earth dist.		14285 Jun 04 22:31	26° \mathbb{I} 53'00	6.39927 AU
conjunction	14280 Jan 01 14:22	23° \mathcal{B} 47'38	0°31'10	conjunction		14285 Jun 07 01:26	27° \mathbb{I} 20'58	-0°21'33
minimum elong	14280 Jan 01 14:22	23° \mathcal{B} 47'37	0°32'10	minimum elong		14285 Jun 07 01:25	27° \mathbb{I} 20'58	0°22'36
max. Earth dist.	14280 Jan 04 01:44	24° \mathcal{B} 22'04	6.10591 AU	morning rise		14285 Jun 19 20:58	0° \mathcal{B} 09'47	
morning rise	14280 Jan 15 04:00	26° \mathcal{B} 55'58				14285 Jun 19 03:05	0° \mathcal{B}	
	14280 Jan 28 15:50	0° \approx		retrograde		14285 Oct 20 17:15	17° \mathcal{B} 33'32	
	14280 Apr 27 08:19	15° \approx		opposition		14285 Dec 20 13:39	12° \mathcal{B} 39'46	-0°41'23
retrograde	14280 May 21 04:56	15° \approx 54'59		min. Earth dist.		14285 Dec 22 04:00	12° \mathcal{B} 27'25	4.32699 AU
	14280 Jun 13 23:12	15° \mathcal{R}		direct		14286 Feb 20 08:44	7° \mathcal{B} 39'37	
min. Earth dist.	14280 Jul 18 17:48	11° \approx 04'26	4.19346 AU	evening set		14286 Jun 25 17:30	25° \mathcal{B} 45'47	
opposition	14280 Jul 20 06:27	10° \approx 52'09	0°50'57	max. Earth dist.		14286 Jul 06 07:01	28° \mathcal{B} 09'33	6.24398 AU
direct	14280 Sep 17 21:17	5° \approx 53'18						
	14280 Dec 09 00:26	15° \approx		conjunction		14286 Jul 08 14:14	28° \mathcal{B} 41'00	-0°32'33
evening set	14281 Jan 22 00:06	24° \approx 14'25		minimum elong		14286 Jul 08 14:14	28° \mathcal{B} 41'00	0°33'32
						14286 Jul 14 08:54	0° \mathcal{Q}	
conjunction	14281 Feb 04 10:24	27° \approx 13'58	0°34'22	morning rise		14286 Jul 21 10:29	1° \mathcal{Q} 36'19	
minimum elong	14281 Feb 04 10:25	27° \approx 13'59	0°35'01			14286 Sep 25 23:38	15° \mathcal{Q}	
max. Earth dist.	14281 Feb 06 09:38	27° \approx 40'20	6.28108 AU	retrograde		14286 Nov 24 02:12	20° \mathcal{Q} 03'40	
	14281 Feb 16 20:45	0° \mathcal{H}		opposition		14287 Jan 23 09:09	15° \mathcal{Q} 09'08	-0°51'37
morning rise	14281 Feb 17 20:15	0° \mathcal{H} 13'00				14287 Jan 24 13:13	15° \mathcal{R} \mathcal{Q}	
retrograde	14281 Jun 21 22:45	18° \mathcal{H} 01'26		min. Earth dist.		14287 Jan 24 22:00	14° \mathcal{Q} 57'08	4.15523 AU
opposition	14281 Aug 21 11:46	13° \mathcal{H} 00'55	0°46'37	direct		14287 Mar 25 02:54	10° \mathcal{Q} 10'22	
min. Earth dist.	14281 Aug 20 12:11	13° \mathcal{H} 08'41	4.35973 AU			14287 May 21 04:49	15° \mathcal{Q}	
direct	14281 Oct 21 08:54	8° \mathcal{H} 00'55		evening set		14287 Jul 29 06:18	29° \mathcal{Q} 11'42	
evening set	14282 Feb 23 15:58	25° \mathcal{H} 35'04				14287 Aug 01 16:27	0° \mathbb{P}	
				max. Earth dist.		14287 Aug 09 09:58	1° \mathbb{P} 49'35	6.06984 AU
conjunction	14282 Mar 08 22:19	28° \mathcal{H} 27'09	0°27'01	conjunction		14287 Aug 11 05:43	2° \mathbb{P} 15'29	-0°33'42
minimum elong	14282 Mar 08 22:20	28° \mathcal{H} 27'10	0°27'10	minimum elong		14287 Aug 11 05:43	2° \mathbb{P} 15'29	0°34'17
max. Earth dist.	14282 Mar 09 20:18	28° \mathcal{H} 39'03	6.42613 AU	morning rise		14287 Aug 24 05:41	5° \mathbb{P} 19'53	
	14282 Mar 16 01:56	0° \mathcal{Y}		retrograde		14287 Dec 31 00:06	25° \mathbb{P} 01'48	
morning rise	14282 Mar 22 03:38	1° \mathcal{Y} 18'30		opposition		14288 Feb 28 18:03	20° \mathbb{P} 05'32	-0°44'36
retrograde	14282 Jul 22 00:44	18° \mathcal{Y} 16'58		min. Earth dist.		14288 Feb 29 14:16	19° \mathbb{P} 58'52	3.99363 AU
opposition	14282 Sep 21 00:01	13° \mathcal{Y} 19'14	0°29'35	direct		14288 Apr 28 02:56	15° \mathbb{P} 08'47	
min. Earth dist.	14282 Sep 20 18:19	13° \mathcal{Y} 21'05	4.47433 AU			14288 Aug 11 23:23	0° \mathcal{L}	
direct	14282 Nov 21 20:27	8° \mathcal{Y} 18'40		evening set		14288 Sep 02 04:00	5° \mathcal{L} 01'20	
evening set	14283 Mar 26 15:06	25° \mathcal{Y} 25'43						
conjunction	14283 Apr 08 17:36	28° \mathcal{Y} 13'19	0°12'35	conjunction		14288 Sep 15 08:27	8° \mathcal{L} 13'37	-0°22'37
minimum elong	14283 Apr 08 17:36	28° \mathcal{Y} 13'19	0°12'10	minimum elong		14288 Sep 15 08:28	8° \mathcal{L} 13'38	0°22'35
behind sun begin	14283 Apr 08 12:14	28° \mathcal{Y} 10'28		max. Earth dist.		14288 Sep 14 18:43	8° \mathcal{L} 05'15	5.93640 AU
behind sun end	14283 Apr 08 22:59	28° \mathcal{Y} 16'11		morning rise		14288 Sep 28 14:28	11° \mathcal{L} 26'56	
max. Earth dist.	14283 Apr 08 11:42	28° \mathcal{Y} 10'11	6.50268 AU			14289 Jan 01 12:01	0° \mathbb{M}	
	14283 Apr 17 01:19	0° \mathcal{B}		retrograde		14289 Feb 06 18:04	2° \mathbb{M} 06'03	
morning rise	14283 Apr 21 18:19	1° \mathcal{B} 00'06				14289 Mar 15 01:59	30° \mathcal{R} \mathcal{L}	
	14283 Jul 09 09:40	15° \mathcal{B}		opposition		14289 Apr 07 01:19	27° \mathcal{L} 07'05	-0°19'26
retrograde	14283 Aug 20 15:13	17° \mathcal{B} 36'52		min. Earth dist.		14289 Apr 06 21:25	27° \mathcal{L} 08'23	3.90306 AU
	14283 Oct 02 01:44	15° \mathcal{R} \mathcal{B}		direct		14289 Jun 04 10:04	22° \mathcal{L} 11'43	
opposition	14283 Oct 20 19:30	12° \mathcal{B} 41'31	0°05'30			14289 Aug 15 09:40	0° \mathbb{M}	
min. Earth dist.	14283 Oct 21 08:59	12° \mathcal{B} 37'11	4.50909 AU	evening set		14289 Oct 09 22:30	12° \mathbb{M} 28'00	
direct	14283 Dec 22 05:22	7° \mathcal{B} 40'47				14289 Oct 20 07:23	15° \mathbb{M}	
desc. node	14284 Jan 11 19:42	8° \mathcal{B} 18'19						

conjunction	14289 Oct 23 08:37	15° \mathbb{M} 44'51	-0°02'11	behind sun end	14295 Apr 13 04:44	2° \mathcal{B} 29'44	
minimum elong	14289 Oct 23 08:37	15° \mathbb{M} 44'51	0°01'31	max. Earth dist.	14295 Apr 12 11:40	2° \mathcal{B} 20'40	6.50909 AU
behind sun begin	14289 Oct 23 00:16	15° \mathbb{M} 39'45		morning rise	14295 Apr 25 22:27	5° \mathcal{B} 12'36	
behind sun end	14289 Oct 23 16:58	15° \mathbb{M} 49'56			14295 Jun 14 19:53	15° \mathcal{B}	
max. Earth dist.	14289 Oct 24 09:39	16° \mathbb{M} 00'10	5.89835 AU	retrograde	14295 Aug 24 18:11	21° \mathcal{B} 47'52	
morning rise	14289 Nov 05 20:25	19° \mathbb{M} 02'38		opposition	14295 Oct 24 22:31	16° \mathcal{B} 52'45	0°01'57
asc. node	14289 Dec 01 11:51	25° \mathbb{M} 07'18		min. Earth dist.	14295 Oct 25 14:30	16° \mathcal{B} 47'37	4.51045 AU
	14289 Dec 23 21:27	0° \mathcal{A}			14295 Nov 08 23:13	15° $\mathcal{R}\mathcal{B}$	
retrograde	14290 Mar 17 08:45	9° \mathcal{A} 50'06		desc. node	14295 Nov 22 18:25	13° \mathcal{B} 31'10	
min. Earth dist.	14290 May 14 11:32	4° \mathcal{A} 57'20	3.92295 AU	direct	14295 Dec 26 10:02	11° \mathcal{B} 52'00	
opposition	14290 May 15 14:08	4° \mathcal{A} 48'20	0°14'17		14296 Feb 11 17:59	15° \mathcal{B}	
	14290 Jul 04 06:33	30° $\mathcal{R}\mathbb{M}$		evening set	14296 Apr 28 22:57	28° \mathcal{B} 55'50	
direct	14290 Jul 12 16:30	29° \mathbb{M} 52'42			14296 May 03 23:01	0° \mathbb{I}	
	14290 Jul 21 02:11	0° \mathcal{A}		max. Earth dist.	14296 May 10 10:41	1° \mathbb{I} 23'37	6.48916 AU
evening set	14290 Nov 17 02:58	19° \mathcal{A} 51'39					
				conjunction	14296 May 11 21:33	1° \mathbb{I} 42'22	-0°07'28
conjunction	14290 Nov 30 15:59	23° \mathcal{A} 06'17	0°19'07	minimum elong	14296 May 11 21:33	1° \mathbb{I} 42'22	0°08'20
minimum elong	14290 Nov 30 15:59	23° \mathcal{A} 06'17	0°20'09	behind sun begin	14296 May 11 14:31	1° \mathbb{I} 38'36	
max. Earth dist.	14290 Dec 02 20:17	23° \mathcal{A} 37'38	5.97319 AU	behind sun end	14296 May 12 04:36	1° \mathbb{I} 46'08	
morning rise	14290 Dec 14 06:36	26° \mathcal{A} 21'27		morning rise	14296 May 24 18:23	4° \mathbb{I} 28'15	
	14290 Dec 29 19:23	0° \mathcal{B}		retrograde	14296 Sep 23 01:14	21° \mathbb{I} 15'41	
retrograde	14291 Apr 22 21:33	16° \mathcal{B} 23'36		opposition	14296 Nov 23 04:42	16° \mathbb{I} 21'47	-0°23'20
min. Earth dist.	14291 Jun 19 21:29	11° \mathcal{B} 33'20	4.04397 AU	min. Earth dist.	14296 Nov 24 12:09	16° \mathbb{I} 11'43	4.44701 AU
opposition	14291 Jun 21 12:01	11° \mathcal{B} 20'18	0°41'03	direct	14297 Jan 24 14:03	11° \mathbb{I} 21'08	
direct	14291 Aug 19 03:53	6° \mathcal{B} 23'01		evening set	14297 May 29 09:01	28° \mathbb{I} 48'18	
evening set	14291 Dec 24 00:24	25° \mathcal{B} 33'39			14297 Jun 03 19:52	0° \mathcal{E}	
				max. Earth dist.	14297 Jun 09 00:53	1° \mathcal{E} 08'51	6.38571 AU
conjunction	14292 Jan 06 13:06	28° \mathcal{B} 40'54	0°32'18				
minimum elong	14292 Jan 06 13:05	28° \mathcal{B} 40'54	0°33'17	conjunction	14297 Jun 11 05:31	1° \mathcal{E} 37'53	-0°23'25
max. Earth dist.	14292 Jan 08 23:37	29° \mathcal{B} 14'43	6.12789 AU	minimum elong	14297 Jun 11 05:31	1° \mathcal{E} 37'53	0°24'28
	14292 Jan 12 06:07	0° \approx		morning rise	14297 Jun 24 00:59	4° \mathcal{E} 27'10	
morning rise	14292 Jan 20 02:16	1° \approx 48'04		retrograde	14297 Oct 25 04:50	21° \mathcal{E} 56'44	
	14292 Mar 24 14:55	15° \approx		opposition	14297 Dec 24 23:23	17° \mathcal{E} 02'54	-0°43'28
retrograde	14292 May 25 18:37	20° \approx 37'35		min. Earth dist.	14297 Dec 26 15:26	16° \mathcal{E} 50'00	4.30923 AU
min. Earth dist.	14292 Jul 23 09:54	15° \approx 46'40	4.21589 AU	direct	14298 Feb 24 17:28	12° \mathcal{E} 02'50	
opposition	14292 Jul 24 20:37	15° \approx 35'03	0°51'17		14298 Jun 29 00:14	0° \mathcal{O}	
	14292 Jul 29 05:44	15° $\mathcal{R}\approx$		evening set	14298 Jun 30 02:01	0° \mathcal{O} 14'36	
direct	14292 Sep 22 16:20	10° \approx 36'05		max. Earth dist.	14298 Jul 10 14:58	2° \mathcal{O} 38'43	6.22327 AU
	14292 Nov 16 10:26	15° \approx					
evening set	14293 Jan 26 15:48	28° \approx 50'36		conjunction	14298 Jul 12 22:57	3° \mathcal{O} 10'44	-0°33'19
	14293 Jan 31 21:12	0° \mathcal{H}		minimum elong	14298 Jul 12 22:57	3° \mathcal{O} 10'44	0°34'15
				morning rise	14298 Jul 25 19:28	6° \mathcal{O} 07'01	
conjunction	14293 Feb 09 01:39	1° \mathcal{H} 49'06	0°33'53		14298 Sep 04 21:25	15° \mathcal{O}	
minimum elong	14293 Feb 09 01:39	1° \mathcal{H} 49'06	0°34'29	retrograde	14298 Nov 28 19:03	24° \mathcal{O} 43'15	
max. Earth dist.	14293 Feb 10 22:46	2° \mathcal{H} 14'09	6.30229 AU	opposition	14299 Jan 28 01:41	19° \mathcal{O} 48'32	-0°51'42
morning rise	14293 Feb 22 10:59	4° \mathcal{H} 47'02		min. Earth dist.	14299 Jan 29 12:58	19° \mathcal{O} 37'02	4.13301 AU
retrograde	14293 Jun 26 03:49	22° \mathcal{H} 27'41			14299 Mar 19 10:31	15° $\mathcal{R}\mathcal{O}$	
opposition	14293 Aug 25 19:32	17° \mathcal{H} 27'34	0°44'51	direct	14299 Mar 29 14:42	14° \mathcal{O} 49'56	
min. Earth dist.	14293 Aug 24 21:09	17° \mathcal{H} 34'56	4.37851 AU		14299 Apr 08 19:31	15° \mathcal{O}	
direct	14293 Oct 25 19:19	12° \mathcal{H} 27'34			14299 Jul 16 18:28	0° \mathcal{N}	
evening set	14294 Feb 28 01:19	29° \mathcal{H} 56'56		evening set	14299 Aug 02 21:47	3° \mathcal{N} 58'36	
	14294 Feb 28 07:02	0° \mathcal{Y}		max. Earth dist.	14299 Aug 14 04:19	6° \mathcal{N} 38'58	6.04797 AU
conjunction	14294 Mar 13 07:09	2° \mathcal{Y} 48'13	0°25'20	conjunction	14299 Aug 15 21:43	7° \mathcal{N} 03'35	-0°32'54
minimum elong	14294 Mar 13 07:10	2° \mathcal{Y} 48'13	0°25'23	minimum elong	14299 Aug 15 21:43	7° \mathcal{N} 03'36	0°33'24
max. Earth dist.	14294 Mar 14 02:16	2° \mathcal{Y} 58'32	6.44151 AU	morning rise	14299 Aug 28 22:23	10° \mathcal{N} 09'17	
morning rise	14294 Mar 26 11:42	5° \mathcal{Y} 38'43			14300 Jan 01 21:49	0° \mathcal{A}	
retrograde	14294 Jul 26 03:59	22° \mathcal{Y} 32'21		retrograde	14300 Jan 05 03:35	0° \mathcal{A} 01'02	
opposition	14294 Sep 25 04:08	17° \mathcal{Y} 35'03	0°26'32		14300 Jan 08 09:09	30° $\mathcal{R}\mathcal{N}$	
min. Earth dist.	14294 Sep 25 00:56	17° \mathcal{Y} 36'05	4.48557 AU	opposition	14300 Mar 05 18:34	25° \mathcal{N} 04'28	-0°42'09
direct	14294 Nov 26 04:04	12° \mathcal{Y} 34'34		min. Earth dist.	14300 Mar 06 13:14	24° \mathcal{N} 58'16	3.97395 AU
evening set	14295 Mar 30 20:23	29° \mathcal{Y} 39'08		direct	14300 May 04 00:26	20° \mathcal{N} 07'51	
	14295 Apr 01 11:45	0° \mathcal{B}			14300 Jul 25 22:16	0° \mathcal{A}	
				evening set	14300 Sep 08 03:08	10° \mathcal{A} 06'49	
conjunction	14295 Apr 12 22:09	2° \mathcal{B} 26'15	0°10'15				
minimum elong	14295 Apr 12 22:10	2° \mathcal{B} 26'15	0°09'47	conjunction	14300 Sep 21 08:35	13° \mathcal{A} 20'17	-0°20'16
behind sun begin	14295 Apr 12 15:37	2° \mathcal{B} 22'47		minimum elong	14300 Sep 21 08:36	13° \mathcal{A} 20'17	0°20'07

max. Earth dist.	14300 Sep 20 23:45	13°♎14'53	5.92102 AU	min. Earth dist.	14306 Sep 30 07:37	21°♊52'21	4.49614 AU
morning rise	14300 Oct 04 15:28	16°♎34'45		direct	14306 Dec 01 10:35	16°♊51'20	
	14300 Dec 04 06:47	0°♌			14307 Mar 17 08:39	0°♋	
retrograde	14301 Feb 13 01:22	7°♌20'11		evening set	14307 Apr 05 02:06	3°♋53'37	
opposition	14301 Apr 13 06:47	2°♌20'52	-0°15'03				
min. Earth dist.	14301 Apr 12 23:55	2°♌23'10	3.89389 AU	conjunction	14307 Apr 18 03:26	6°♋40'21	0°07'48
	14301 May 01 12:03	30°♋♎		minimum elong	14307 Apr 18 03:26	6°♋40'21	0°07'16
direct	14301 Jun 10 12:13	27°♎25'35		behind sun begin	14307 Apr 17 20:04	6°♋36'27	
	14301 Jul 20 01:33	0°♌		behind sun end	14307 Apr 18 10:47	6°♋44'15	
	14301 Oct 04 19:24	15°♌		max. Earth dist.	14307 Apr 17 14:05	6°♋33'15	6.51372 AU
asc. node	14301 Oct 12 13:22	16°♌51'56		morning rise	14307 May 01 03:01	9°♋26'17	
evening set	14301 Oct 16 03:32	17°♌44'15			14307 May 28 03:48	15°♋	
				retrograde	14307 Aug 29 21:42	26°♋00'45	
conjunction	14301 Oct 29 14:13	21°♌01'31	0°00'58	desc. node	14307 Oct 05 03:50	24°♋03'58	
minimum elong	14301 Oct 29 14:13	21°♌01'31	0°01'42	opposition	14307 Oct 30 02:51	21°♋05'53	-0°01'43
behind sun begin	14301 Oct 29 05:51	20°♌56'25		min. Earth dist.	14307 Oct 30 21:32	20°♋59'54	4.50874 AU
behind sun end	14301 Oct 29 22:34	21°♌06'37		direct	14307 Dec 31 15:39	16°♋05'08	
max. Earth dist.	14301 Oct 30 18:19	21°♌18'43	5.89621 AU		14308 Apr 19 02:38	0°♐	
morning rise	14301 Nov 12 02:56	24°♌19'45		evening set	14308 May 04 03:48	3°♐10'09	
	14301 Dec 05 23:58	0°♏		max. Earth dist.	14308 May 15 10:24	5°♐35'33	6.48101 AU
retrograde	14302 Mar 23 12:34	15°♏06'26					
opposition	14302 May 21 18:48	10°♏04'18	0°18'39	conjunction	14308 May 17 01:51	5°♐56'49	-0°09'54
min. Earth dist.	14302 May 20 13:02	10°♏14'24	3.92816 AU	minimum elong	14308 May 17 01:50	5°♐56'48	0°10'50
direct	14302 Jul 18 20:43	5°♏08'28		behind sun begin	14308 May 16 19:44	5°♐53'32	
evening set	14302 Nov 23 08:18	25°♏04'39		behind sun end	14308 May 17 07:55	6°♐00'04	
				morning rise	14308 May 29 22:28	8°♐42'53	
conjunction	14302 Dec 06 21:40	28°♏18'50	0°21'32	retrograde	14308 Sep 28 09:53	25°♐34'02	
minimum elong	14302 Dec 06 21:39	28°♏18'50	0°22'34	opposition	14308 Nov 28 12:10	20°♐40'11	-0°26'37
max. Earth dist.	14302 Dec 09 04:38	28°♏51'42	5.98528 AU	min. Earth dist.	14308 Nov 29 21:52	20°♐29'23	4.43279 AU
	14302 Dec 13 23:04	0°♑		direct	14309 Jan 29 20:59	15°♐39'31	
morning rise	14302 Dec 20 12:20	1°♑33'25			14309 May 19 22:24	0°♑	
retrograde	14303 Apr 28 20:30	21°♑28'28		evening set	14309 Jun 03 16:23	3°♑11'29	
min. Earth dist.	14303 Jun 25 20:46	16°♑38'05	4.06131 AU	max. Earth dist.	14309 Jun 14 07:09	5°♑32'00	6.36639 AU
opposition	14303 Jun 27 11:16	16°♑25'04	0°43'30				
direct	14303 Aug 25 06:40	11°♑27'29		conjunction	14309 Jun 16 12:56	6°♑01'47	-0°25'15
	14303 Dec 27 17:09	0°♒		minimum elong	14309 Jun 16 12:56	6°♑01'47	0°26'18
evening set	14303 Dec 30 00:41	0°♒31'43		morning rise	14309 Jun 29 08:15	8°♑51'49	
				retrograde	14309 Oct 30 19:10	26°♑29'16	
conjunction	14304 Jan 12 13:14	3°♒37'57	0°33'10	opposition	14309 Dec 30 13:15	21°♑35'23	-0°45'27
minimum elong	14304 Jan 12 13:13	3°♒37'57	0°34'06	min. Earth dist.	14310 Jan 01 05:05	21°♑22'33	4.28601 AU
max. Earth dist.	14304 Jan 15 00:49	4°♒12'11	6.14881 AU	direct	14310 Mar 02 03:17	16°♑35'29	
morning rise	14304 Jan 26 02:03	6°♒43'59			14310 Jun 13 13:46	0°♒	
	14304 Mar 04 04:15	15°♒		evening set	14310 Jul 05 15:30	4°♒54'53	
retrograde	14304 May 31 07:18	25°♒23'58		max. Earth dist.	14310 Jul 16 05:01	7°♒20'12	6.19783 AU
min. Earth dist.	14304 Jul 29 01:10	20°♒33'16	4.23831 AU				
opposition	14304 Jul 30 12:09	20°♒21'36	0°51'14	conjunction	14310 Jul 18 12:35	7°♒52'10	-0°33'56
direct	14304 Sep 28 10:57	15°♒22'23		minimum elong	14310 Jul 18 12:35	7°♒52'10	0°34'50
	14305 Jan 16 05:56	0°♓		morning rise	14310 Jul 31 09:35	10°♒49'43	
evening set	14305 Feb 01 08:50	3°♓29'53			14310 Aug 18 21:45	15°♒	
				retrograde	14310 Dec 04 21:19	29°♒36'53	
conjunction	14305 Feb 14 18:04	6°♓27'13	0°33'10	opposition	14311 Feb 03 00:45	24°♒41'59	-0°51'29
minimum elong	14305 Feb 14 18:04	6°♓27'13	0°33'41	min. Earth dist.	14311 Feb 04 11:10	24°♒30'44	4.10714 AU
max. Earth dist.	14305 Feb 16 11:52	6°♓50'20	6.32431 AU	direct	14311 Apr 04 10:15	19°♒43'37	
morning rise	14305 Feb 28 02:47	9°♓23'58			14311 Jun 29 17:23	0°♑	
retrograde	14305 Jul 01 12:03	26°♓56'18		evening set	14311 Aug 08 19:28	9°♑00'50	
min. Earth dist.	14305 Aug 30 08:57	22°♓02'53	4.39817 AU	max. Earth dist.	14311 Aug 20 06:26	11°♑44'40	6.02416 AU
opposition	14305 Aug 31 04:27	21°♓56'29	0°42'47				
direct	14305 Oct 31 09:26	16°♓56'17		conjunction	14311 Aug 21 20:12	12°♑07'14	-0°31'49
	14306 Feb 12 18:58	0°♑		minimum elong	14311 Aug 21 20:13	12°♑07'15	0°32'15
evening set	14306 Mar 05 11:29	4°♑20'18		morning rise	14311 Sep 03 21:37	15°♑14'23	
					14311 Nov 13 01:23	0°♎	
conjunction	14306 Mar 18 16:44	7°♑10'44	0°23'28	retrograde	14312 Jan 11 13:13	5°♎16'36	
minimum elong	14306 Mar 18 16:45	7°♑10'45	0°23'26	opposition	14312 Mar 11 01:58	0°♎19'46	-0°39'14
max. Earth dist.	14306 Mar 19 08:25	7°♑19'10	6.45716 AU	min. Earth dist.	14312 Mar 11 17:20	0°♎14'39	3.95478 AU
morning rise	14306 Mar 31 20:38	10°♑00'22			14312 Mar 13 13:31	30°♑♑	
retrograde	14306 Jul 31 06:38	26°♑48'59		direct	14312 May 09 02:17	25°♑23'29	
opposition	14306 Sep 30 08:52	21°♑51'56	0°23'15		14312 Jul 02 09:26	0°♎	

evening set	14312 Sep 13 09:22	15°♌28'34		conjunction	14318 Mar 22 23:31	11°♊28'10	0°21'31
				minimum elong	14318 Mar 22 23:31	11°♊28'10	0°21'25
conjunction	14312 Sep 26 15:30	18°♌43'01	-0°17'36	max. Earth dist.	14318 Mar 23 09:59	11°♊33'47	6.47222 AU
minimum elong	14312 Sep 26 15:30	18°♌43'02	0°17'22	morning rise	14318 Apr 05 02:47	14°♊16'58	
max. Earth dist.	14312 Sep 26 10:36	18°♌40'02	5.90842 AU		14318 Jul 09 11:48	0°♋	
morning rise	14312 Oct 09 23:30	21°♌58'35		retrograde	14318 Aug 04 09:38	1°♋01'14	
	14312 Nov 13 04:31	0°♌			14318 Aug 30 03:35	30°♋♊	
retrograde	14313 Feb 18 12:34	12°♌48'48		opposition	14318 Oct 04 11:49	26°♊04'34	0°19'57
opposition	14313 Apr 18 17:56	7°♌49'06	-0°10'17	min. Earth dist.	14318 Oct 04 14:34	26°♊03'41	4.50467 AU
min. Earth dist.	14313 Apr 18 06:46	7°♌52'51	3.88960 AU	direct	14318 Dec 05 16:56	21°♊03'53	
direct	14313 Jun 15 21:20	2°♌53'53			14319 Feb 27 22:48	0°♋	
asc. node	14313 Aug 18 14:46	9°♌10'44		evening set	14319 Apr 09 05:56	8°♋04'39	
	14313 Sep 16 11:44	15°♌					
evening set	14313 Oct 21 13:40	23°♌12'49		conjunction	14319 Apr 22 06:45	10°♋51'08	0°05'22
				minimum elong	14319 Apr 22 06:44	10°♋51'07	0°04'46
conjunction	14313 Nov 04 01:05	26°♌30'11	0°04'11	behind sun begin	14319 Apr 21 22:54	10°♋46'58	
minimum elong	14313 Nov 04 01:05	26°♌30'10	0°05'00	behind sun end	14319 Apr 22 14:35	10°♋55'17	
behind sun begin	14313 Nov 03 16:58	26°♌25'14		max. Earth dist.	14319 Apr 21 12:33	10°♋41'26	6.51504 AU
behind sun end	14313 Nov 04 09:12	26°♌35'07		morning rise	14319 May 05 05:53	13°♋36'50	
max. Earth dist.	14313 Nov 05 11:16	26°♌51'05	5.90092 AU		14319 May 11 19:31	15°♋	
morning rise	14313 Nov 17 14:14	29°♌48'24		desc. node	14319 Aug 18 00:19	29°♋48'02	
	14313 Nov 18 09:23	0°♋			14319 Aug 22 19:16	0°♋	
retrograde	14314 Mar 28 20:36	20°♋31'10		retrograde	14319 Sep 03 00:25	0°♋11'44	
min. Earth dist.	14314 May 25 19:31	15°♋39'24	3.94134 AU		14319 Sep 14 05:49	30°♋♊	
opposition	14314 May 27 02:56	15°♋28'44	0°23'02	opposition	14319 Nov 03 05:58	25°♋17'01	-0°05'19
direct	14314 Jul 24 06:43	10°♋32'45		min. Earth dist.	14319 Nov 04 02:57	25°♋10'18	4.50290 AU
	14314 Nov 27 01:00	0°♋		direct	14320 Jan 04 18:27	20°♋16'11	
evening set	14314 Nov 28 15:42	0°♋22'52			14320 Apr 02 02:45	0°♋	
				evening set	14320 May 08 07:46	7°♋23'46	
conjunction	14314 Dec 12 05:09	3°♋36'08	0°23'51	max. Earth dist.	14320 May 19 12:17	9°♋48'25	6.46835 AU
minimum elong	14314 Dec 12 05:08	3°♋36'08	0°24'54				
max. Earth dist.	14314 Dec 14 15:38	4°♋10'54	6.00551 AU	conjunction	14320 May 21 05:40	10°♋10'47	-0°12'17
morning rise	14314 Dec 25 19:45	6°♋49'42		minimum elong	14320 May 21 05:39	10°♋10'47	0°13'13
retrograde	14315 May 03 17:18	26°♋34'26		behind sun begin	14320 May 21 00:57	10°♋08'15	
min. Earth dist.	14315 Jun 30 18:42	21°♋44'30	4.08637 AU	behind sun end	14320 May 21 10:20	10°♋13'18	
opposition	14315 Jul 02 10:38	21°♋31'02	0°45'41	morning rise	14320 Jun 03 01:52	12°♋57'13	
direct	14315 Aug 30 08:55	16°♋33'14		retrograde	14320 Oct 02 18:16	29°♋53'32	
	14315 Dec 10 09:19	0°♋		opposition	14320 Dec 02 19:51	24°♋59'47	-0°29'46
evening set	14316 Jan 04 00:26	5°♋28'33		min. Earth dist.	14320 Dec 04 07:22	24°♋48'25	4.41399 AU
				direct	14321 Feb 03 02:48	19°♋59'10	
conjunction	14316 Jan 17 12:26	8°♋33'21	0°33'51		14321 May 02 17:57	0°♋	
minimum elong	14316 Jan 17 12:26	8°♋33'21	0°34'44	evening set	14321 Jun 08 00:27	7°♋37'21	
max. Earth dist.	14316 Jan 19 21:36	9°♋06'00	6.17626 AU	max. Earth dist.	14321 Jun 18 12:30	9°♋57'11	6.34266 AU
morning rise	14316 Jan 31 00:48	11°♋37'56					
	14316 Feb 15 02:51	15°♋		conjunction	14321 Jun 20 20:50	10°♋28'32	-0°26'58
	14316 May 27 14:37	0°♋		minimum elong	14321 Jun 20 20:49	10°♋28'32	0°28'02
retrograde	14316 Jun 04 19:41	0°♋06'35		morning rise	14321 Jul 03 16:25	13°♋19'34	
	14316 Jun 12 23:50	30°♋♋			14321 Oct 08 17:29	0°♋	
min. Earth dist.	14316 Aug 02 17:16	25°♋15'22	4.26550 AU	retrograde	14321 Nov 04 13:43	1°♋06'34	
opposition	14316 Aug 04 01:57	25°♋04'28	0°50'53		14321 Dec 01 09:31	30°♋♊	
direct	14316 Oct 03 06:19	20°♋05'01		opposition	14322 Jan 04 05:07	26°♋12'35	-0°47'14
	14316 Dec 29 07:59	0°♋		min. Earth dist.	14322 Jan 05 21:13	25°♋59'37	4.25878 AU
evening set	14317 Feb 05 23:23	8°♋04'22		direct	14322 Mar 06 15:46	21°♋12'46	
					14322 May 26 04:22	0°♋	
conjunction	14317 Feb 19 08:10	11°♋00'28	0°32'17	evening set	14322 Jul 10 06:57	9°♋41'04	
minimum elong	14317 Feb 19 08:11	11°♋00'29	0°32'44	max. Earth dist.	14322 Jul 20 23:06	12°♋08'46	6.16948 AU
max. Earth dist.	14317 Feb 20 23:58	11°♋22'21	6.34914 AU				
morning rise	14317 Mar 04 16:04	13°♋55'54		conjunction	14322 Jul 23 04:36	12°♋39'44	-0°34'21
	14317 Jun 06 07:38	0°♊		minimum elong	14322 Jul 23 04:36	12°♋39'44	0°35'11
retrograde	14317 Jul 05 15:47	1°♊19'34			14322 Aug 02 06:56	15°♋	
	14317 Aug 03 21:14	30°♋♋		morning rise	14322 Aug 05 02:00	15°♋38'41	
opposition	14317 Sep 04 10:54	26°♋20'08	0°40'32		14322 Oct 15 01:49	0°♋	
min. Earth dist.	14317 Sep 03 17:03	26°♋25'59	4.41886 AU	retrograde	14322 Dec 10 01:26	4°♋37'39	
direct	14317 Nov 04 18:31	21°♋19'52			14323 Feb 05 21:04	30°♋♊	
	14318 Jan 25 20:31	0°♊		opposition	14323 Feb 08 02:24	29°♋42'33	-0°50'55
evening set	14318 Mar 09 18:58	8°♊38'35		min. Earth dist.	14323 Feb 09 10:40	29°♋31'59	4.08016 AU
				direct	14323 Apr 09 06:04	24°♋44'31	

	14323 Jun 07 11:51	0°♎	opposition	14328 Aug 08 13:45	29°♊41'09	0°50'13
evening set	14323 Aug 13 20:25	14°♎10'34	direct	14328 Oct 07 21:38	24°♊41'36	
max. Earth dist.	14323 Aug 25 11:10	16°♎57'34 6.00110 AU		14328 Dec 08 04:22	0°♊	
			evening set	14329 Feb 10 12:28	12°♊33'53	
conjunction	14323 Aug 26 21:44	17°♎18'20 -0°30'29				
minimum elong	14323 Aug 26 21:45	17°♎18'21 0°30'49	conjunction	14329 Feb 23 20:31	15°♊28'51	0°31'14
morning rise	14323 Sep 09 00:12	20°♎26'58	minimum elong	14329 Feb 23 20:32	15°♊28'52	0°31'35
	14323 Oct 21 01:23	0°♎	max. Earth dist.	14329 Feb 25 06:52	15°♊47'40	6.37065 AU
retrograde	14324 Jan 16 23:49	10°♎38'59	morning rise	14329 Mar 09 03:54	18°♊23'11	
opposition	14324 Mar 16 11:57	5°♎41'43 -0°35'56		14329 May 07 09:23	0°♊	
min. Earth dist.	14324 Mar 16 22:58	5°♎38'03 3.93819 AU	retrograde	14329 Jul 09 21:13	5°♊39'42	
direct	14324 May 14 08:24	0°♎45'40	opposition	14329 Sep 08 16:37	0°♊40'43	0°38'06
evening set	14324 Sep 18 17:41	20°♎55'23	min. Earth dist.	14329 Sep 08 02:26	0°♊45'21	4.43537 AU
				14329 Sep 13 21:34	30°♊	
conjunction	14324 Oct 02 00:49	24°♎10'40 -0°14'46	direct	14329 Nov 09 04:11	25°♊40'20	
minimum elong	14324 Oct 02 00:49	24°♎10'40 0°14'26		14330 Jan 03 22:52	0°♊	
behind sun begin	14324 Oct 01 21:03	24°♎08'22	evening set	14330 Mar 14 02:10	12°♊55'21	
behind sun end	14324 Oct 02 04:36	24°♎12'58				
max. Earth dist.	14324 Oct 02 03:24	24°♎12'15 5.90025 AU	conjunction	14330 Mar 27 06:20	15°♊44'22	0°19'27
morning rise	14324 Oct 15 09:32	27°♎26'59	minimum elong	14330 Mar 27 06:21	15°♊44'22	0°19'17
	14324 Oct 25 22:46	0°♎	max. Earth dist.	14330 Mar 27 13:33	15°♊48'14	6.48267 AU
	14325 Jan 09 01:32	15°♎	morning rise	14330 Apr 09 08:53	18°♊32'33	
retrograde	14325 Feb 24 02:18	18°♎19'32		14330 Jun 08 06:09	0°♊	
	14325 Apr 11 13:34	15°♎	retrograde	14330 Aug 08 11:32	5°♊14'02	
opposition	14325 Apr 24 06:07	13°♎19'21 -0°05'25	opposition	14330 Oct 08 15:04	0°♊17'43	0°16'31
min. Earth dist.	14325 Apr 23 16:01	13°♎24'06 3.89087 AU	min. Earth dist.	14330 Oct 08 19:50	0°♊16'11	4.50867 AU
direct	14325 Jun 21 09:10	8°♎24'08		14330 Oct 10 22:06	30°♊	
asc. node	14325 Jun 25 18:37	8°♎26'09	direct	14330 Dec 09 20:41	25°♊17'03	
	14325 Aug 25 20:35	15°♎		14331 Feb 06 20:02	0°♊	
evening set	14325 Oct 27 00:08	28°♎40'41	evening set	14331 Apr 13 10:49	12°♊17'50	
	14325 Nov 01 10:41	0°♊				
conjunction	14325 Nov 09 12:00	1°♊57'46 0°07'19	conjunction	14331 Apr 26 11:08	15°♊04'14	0°02'52
minimum elong	14325 Nov 09 12:00	1°♊57'46 0°08'12	minimum elong	14331 Apr 26 11:08	15°♊04'14	0°02'12
behind sun begin	14325 Nov 09 04:36	1°♊53'17	behind sun begin	14331 Apr 26 03:06	14°♊59'58	
behind sun end	14325 Nov 09 19:23	2°♊02'15	behind sun end	14331 Apr 26 19:09	15°♊08'30	
max. Earth dist.	14325 Nov 11 03:19	2°♊21'44 5.91119 AU	max. Earth dist.	14331 Apr 25 13:01	14°♊52'25	6.51227 AU
morning rise	14325 Nov 23 01:37	5°♊15'39		14331 Apr 26 03:10	15°♊	
retrograde	14326 Apr 03 01:06	25°♊51'41	morning rise	14331 May 09 09:50	17°♊49'54	
min. Earth dist.	14326 May 30 22:58	21°♊00'35 3.95936 AU	desc. node	14331 Jun 29 00:32	27°♊45'31	
opposition	14326 Jun 01 09:15	20°♊48'58 0°27'09		14331 Jul 13 04:11	0°♊	
direct	14326 Jul 29 13:49	15°♊52'46	retrograde	14331 Sep 07 06:51	4°♊26'35	
	14326 Nov 09 15:32	0°♊		14331 Nov 03 20:01	30°♊	
evening set	14326 Dec 03 21:37	5°♊35'19	opposition	14331 Nov 07 11:11	29°♊32'10	-0°08'58
			min. Earth dist.	14331 Nov 08 11:23	29°♊24'25	4.49355 AU
conjunction	14326 Dec 17 10:52	8°♊47'24 0°25'57	direct	14332 Jan 09 00:10	24°♊31'23	
minimum elong	14326 Dec 17 10:52	8°♊47'24 0°27'00		14332 Mar 12 19:14	0°♊	
max. Earth dist.	14326 Dec 19 21:10	9°♊21'51 6.02908 AU	evening set	14332 May 12 13:51	11°♊42'36	
morning rise	14326 Dec 31 01:23	11°♊59'45	max. Earth dist.	14332 May 23 14:03	14°♊05'28	6.45294 AU
	14327 Apr 07 08:12	0°♊				
retrograde	14327 May 08 12:19	1°♊33'16	conjunction	14332 May 25 11:23	14°♊30'05	-0°14'38
	14327 Jun 08 12:42	30°♊	minimum elong	14332 May 25 11:23	14°♊30'04	0°15'36
min. Earth dist.	14327 Jul 05 16:24	26°♊43'05 4.11277 AU	behind sun begin	14332 May 25 09:25	14°♊29'01	
opposition	14327 Jul 07 07:28	26°♊29'55 0°47'28	behind sun end	14332 May 25 13:21	14°♊31'08	
direct	14327 Sep 04 10:36	21°♊31'48	morning rise	14332 Jun 07 07:32	17°♊17'03	
	14327 Nov 21 07:00	0°♊		14332 Aug 13 04:52	0°♊	
evening set	14328 Jan 08 21:39	10°♊18'15	retrograde	14332 Oct 07 06:02	4°♊19'36	
				14332 Dec 02 19:42	30°♊	
conjunction	14328 Jan 22 09:25	13°♊21'44 0°34'17	opposition	14332 Dec 07 06:17	29°♊25'54	-0°32'49
minimum elong	14328 Jan 22 09:25	13°♊21'44 0°35'07	min. Earth dist.	14332 Dec 08 18:30	29°♊14'17	4.39356 AU
max. Earth dist.	14328 Jan 24 17:58	13°♊53'50 6.20324 AU	direct	14333 Feb 07 10:13	24°♊25'24	
	14328 Jan 29 14:40	15°♊		14333 Apr 12 01:40	0°♊	
morning rise	14328 Feb 04 21:04	16°♊24'52	evening set	14333 Jun 12 11:13	12°♊10'25	
	14328 Apr 13 11:49	0°♊	max. Earth dist.	14333 Jun 23 00:24	14°♊31'34	6.31881 AU
retrograde	14328 Jun 09 05:33	4°♊42'53				
	14328 Aug 06 04:57	30°♊	conjunction	14333 Jun 25 07:47	15°♊02'35	-0°28'34
min. Earth dist.	14328 Aug 07 06:28	29°♊51'32 4.29072 AU	minimum elong	14333 Jun 25 07:47	15°♊02'34	0°29'37
			morning rise	14333 Jul 08 03:19	17°♊54'35	

	14333 Sep 06 03:09	0°♏	conjunction	14338 Dec 22 10:45	13°♁45'16	0°27'45
retrograde	14333 Nov 09 10:44	5°♏51'11	minimum elong	14338 Dec 22 10:44	13°♁45'16	0°28'47
opposition	14334 Jan 08 23:47	0°♏57'12 -0°48'45	max. Earth dist.	14338 Dec 24 22:34	14°♁20'25	6.05374 AU
min. Earth dist.	14334 Jan 10 15:30	0°♏44'22 4.23339 AU	morning rise	14339 Jan 05 00:49	16°♁56'17	
	14334 Jan 16 09:35	30°♏♄		14339 Mar 08 05:12	0°♁	
direct	14334 Mar 11 06:09	25°♄57'44	retrograde	14339 May 13 02:18	6°♁18'45	
	14334 May 02 15:30	0°♏	min. Earth dist.	14339 Jul 10 08:33	1°♁28'24	4.13839 AU
evening set	14334 Jul 15 01:06	14°♏34'16	opposition	14339 Jul 11 22:43	1°♁15'35	0°48'50
	14334 Jul 16 21:38	15°♏		14339 Jul 21 10:09	30°♏♄	
max. Earth dist.	14334 Jul 25 18:38	17°♏03'40 6.14476 AU	direct	14339 Sep 09 05:30	26°♁17'16	
				14339 Oct 28 17:05	0°♁	
conjunction	14334 Jul 27 22:58	17°♏34'08 -0°34'33	evening set	14340 Jan 13 13:36	14°♁55'30	
minimum elong	14334 Jul 27 22:58	17°♏34'08 0°35'20		14340 Jan 13 21:38	15°♁	
morning rise	14334 Aug 09 21:04	20°♏34'25				
	14334 Sep 21 20:01	0°♏	conjunction	14340 Jan 27 00:47	17°♁57'43	0°34'30
retrograde	14334 Dec 15 06:39	9°♏43'55	minimum elong	14340 Jan 27 00:47	17°♁57'43	0°35'17
opposition	14335 Feb 13 06:06	4°♏48'34 -0°49'59	max. Earth dist.	14340 Jan 29 05:28	18°♁27'27	6.22753 AU
min. Earth dist.	14335 Feb 14 11:02	4°♏39'04 4.05849 AU	morning rise	14340 Feb 09 12:04	20°♁59'36	
	14335 Apr 04 15:17	30°♏♏		14340 Mar 23 03:45	0°♏	
direct	14335 Apr 14 05:01	29°♏50'52	retrograde	14340 Jun 13 10:52	9°♏08'22	
	14335 Apr 23 19:38	0°♏	opposition	14340 Aug 12 20:55	4°♏06'57	0°49'21
evening set	14335 Aug 18 22:07	19°♏23'32	min. Earth dist.	14340 Aug 11 16:08	4°♏16'30	4.31195 AU
max. Earth dist.	14335 Aug 30 20:11	22°♏15'29 5.98483 AU		14340 Sep 18 18:05	30°♏♁	
			direct	14340 Oct 12 08:25	29°♁07'13	
conjunction	14335 Sep 01 00:15	22°♏32'25 -0°28'57		14340 Nov 05 05:11	0°♏	
minimum elong	14335 Sep 01 00:16	22°♏32'25 0°29'11	evening set	14341 Feb 14 21:17	16°♏53'57	
morning rise	14335 Sep 14 03:20	25°♏42'07				
	14335 Oct 02 08:06	0°♏	conjunction	14341 Feb 28 05:01	19°♏48'05	0°30'04
retrograde	14336 Jan 22 11:21	16°♏00'57	minimum elong	14341 Feb 28 05:02	19°♏48'06	0°30'22
opposition	14336 Mar 21 21:23	11°♏03'19 -0°32'23	max. Earth dist.	14341 Mar 01 12:35	20°♏05'19	6.38752 AU
min. Earth dist.	14336 Mar 22 05:20	11°♏00'40 3.92933 AU	morning rise	14341 Mar 13 11:38	22°♏41'29	
direct	14336 May 19 15:28	6°♏07'31		14341 Apr 17 18:47	0°♏	
evening set	14336 Sep 24 00:35	26°♏18'42	retrograde	14341 Jul 13 22:48	9°♏52'31	
			opposition	14341 Sep 12 19:25	4°♏53'57	0°35'37
conjunction	14336 Oct 07 08:18	29°♏34'20 -0°11'54	min. Earth dist.	14341 Sep 12 07:33	4°♏57'49	4.44696 AU
minimum elong	14336 Oct 07 08:18	29°♏34'20 0°11'30		14341 Nov 05 01:22	30°♏♏	
behind sun begin	14336 Oct 07 02:18	29°♏30'41	direct	14341 Nov 13 09:25	29°♏53'34	
behind sun end	14336 Oct 07 14:17	29°♏38'00		14341 Nov 21 18:44	0°♏	
max. Earth dist.	14336 Oct 07 15:53	29°♏38'58 5.89963 AU	evening set	14342 Mar 18 06:53	17°♏06'18	
	14336 Oct 09 02:10	0°♏				
morning rise	14336 Oct 20 17:50	2°♏51'02	conjunction	14342 Mar 31 10:23	19°♏54'53	0°17'24
	14336 Dec 13 13:38	15°♏	minimum elong	14342 Mar 31 10:24	19°♏54'54	0°17'09
retrograde	14337 Mar 01 08:53	23°♏42'25	max. Earth dist.	14342 Mar 31 12:09	19°♏55'50	6.48830 AU
opposition	14337 Apr 29 14:11	18°♏41'48 -0°00'42	morning rise	14342 Apr 13 12:35	22°♏42'42	
min. Earth dist.	14337 Apr 28 19:56	18°♏47'58 3.89889 AU		14342 May 19 09:50	0°♏	
asc. node	14337 May 07 12:35	17°♏38'05	retrograde	14342 Aug 12 14:36	9°♏22'55	
	14337 May 30 17:43	15°♏♏	opposition	14342 Oct 12 17:17	4°♏26'55	0°13'10
direct	14337 Jun 26 15:45	13°♏46'32	min. Earth dist.	14342 Oct 13 01:30	4°♏24'16	4.50829 AU
	14337 Jul 23 14:39	15°♏		14342 Nov 24 16:16	30°♏♏	
	14337 Oct 15 14:13	0°♏	direct	14342 Dec 14 00:48	29°♏26'12	
evening set	14337 Nov 01 06:21	3°♏58'26		14343 Jan 02 12:07	0°♏	
				14343 Apr 10 15:35	15°♏	
conjunction	14337 Nov 14 18:24	7°♏14'51 0°10'15	evening set	14343 Apr 17 14:25	16°♏28'03	
minimum elong	14337 Nov 14 18:23	7°♏14'51 0°11'10				
behind sun begin	14337 Nov 14 12:13	7°♏11'08	conjunction	14343 Apr 30 14:27	19°♏14'33	0°00'22
behind sun end	14337 Nov 15 00:33	7°♏18'35	minimum elong	14343 Apr 30 14:27	19°♏14'33	0°00'21
max. Earth dist.	14337 Nov 16 12:16	7°♏40'16 5.92676 AU	behind sun begin	14343 Apr 30 06:27	19°♏10'18	
morning rise	14337 Nov 28 08:19	10°♏32'04	behind sun end	14343 Apr 30 22:27	19°♏18'49	
	14338 Mar 14 09:43	0°♁	max. Earth dist.	14343 Apr 29 13:30	19°♏01'12	6.50600 AU
retrograde	14338 Apr 08 00:03	0°♁59'40	desc. node	14343 May 09 11:39	21°♏08'36	
	14338 May 02 12:06	30°♏♏	morning rise	14343 May 13 12:42	22°♏00'19	
min. Earth dist.	14338 Jun 04 23:08	26°♏08'35 3.98051 AU		14343 Jun 22 03:48	0°♏	
opposition	14338 Jun 06 10:07	25°♏56'43 0°30'49	retrograde	14343 Sep 11 11:09	8°♏39'40	
direct	14338 Aug 03 18:29	21°♏00'13	opposition	14343 Nov 11 15:45	3°♏45'23	-0°12'28
	14338 Oct 21 20:42	0°♁	min. Earth dist.	14343 Nov 12 16:50	3°♏37'21	4.48198 AU
evening set	14338 Dec 08 21:27	10°♁34'22		14343 Dec 14 23:43	30°♏♏	
			direct	14344 Jan 13 02:49	28°♏44'38	

	14344 Feb 11 10:57	0°♂		minimum elong	14349 Nov 20 00:22	12°♂29'39	0°14'06
evening set	14344 May 16 19:30	15°♂59'52		behind sun begin	14349 Nov 19 20:19	12°♂27'12	
max. Earth dist.	14344 May 27 18:40	18°♂22'42	6.43685 AU	behind sun end	14349 Nov 20 04:24	12°♂32'05	
				max. Earth dist.	14349 Nov 21 22:56	12°♂57'49	5.93862 AU
conjunction	14344 May 29 16:49	18°♂47'51	-0°16'51	morning rise	14349 Dec 03 14:24	15°♂46'20	
minimum elong	14344 May 29 16:49	18°♂47'51	0°17'51		14350 Feb 07 20:53	0°♂	
morning rise	14344 Jun 11 12:43	21°♂35'21		retrograde	14350 Apr 13 00:59	6°♂07'11	
	14344 Jul 22 12:22	0°♂		min. Earth dist.	14350 Jun 09 22:50	1°♂16'20	3.99784 AU
retrograde	14344 Oct 11 18:33	8°♂44'05		opposition	14350 Jun 11 10:49	1°♂04'09	0°34'18
opposition	14344 Dec 11 16:39	3°♂50'25	-0°35'38		14350 Jun 19 09:52	30°♂♂	
min. Earth dist.	14344 Dec 13 06:23	3°♂38'18	4.37380 AU	direct	14350 Aug 08 21:16	26°♂07'28	
	14345 Jan 14 22:11	30°♂♂			14350 Sep 27 14:44	0°♂	
direct	14345 Feb 11 18:59	28°♂50'01		evening set	14350 Dec 13 22:33	15°♂35'05	
	14345 Mar 11 15:52	0°♂					
evening set	14345 Jun 16 21:18	16°♂41'11		conjunction	14350 Dec 27 11:35	18°♂44'57	0°29'22
max. Earth dist.	14345 Jun 27 09:11	19°♂02'21	6.29666 AU	minimum elong	14350 Dec 27 11:34	18°♂44'57	0°30'23
				max. Earth dist.	14350 Dec 29 22:47	19°♂19'34	6.07460 AU
conjunction	14345 Jun 29 17:48	19°♂34'13	-0°29'57	morning rise	14351 Jan 10 01:35	21°♂35'55	
minimum elong	14345 Jun 29 17:47	19°♂34'12	0°30'59		14351 Feb 15 12:44	0°♂	
morning rise	14345 Jul 12 13:38	22°♂27'12		retrograde	14351 May 17 16:11	11°♂07'51	
	14345 Aug 16 16:15	0°♂		min. Earth dist.	14351 Jul 15 01:20	6°♂17'32	4.16077 AU
retrograde	14345 Nov 14 05:40	10°♂32'43		opposition	14351 Jul 16 15:10	6°♂04'49	0°49'54
opposition	14346 Jan 13 17:40	5°♂38'32	-0°49'54	direct	14351 Sep 14 00:47	1°♂06'18	
min. Earth dist.	14346 Jan 15 07:49	5°♂26'09	4.21017 AU		14351 Dec 28 05:31	15°♂	
direct	14346 Mar 15 19:31	0°♂39'13		evening set	14352 Jan 18 07:25	19°♂37'38	
	14346 Jun 30 11:18	15°♂					
evening set	14346 Jul 19 17:43	19°♂23'01		conjunction	14352 Jan 31 18:19	22°♂38'47	0°34'29
max. Earth dist.	14346 Jul 30 15:27	21°♂55'34	6.12230 AU	minimum elong	14352 Jan 31 18:19	22°♂38'47	0°35'12
				max. Earth dist.	14352 Feb 02 21:16	23°♂07'24	6.24974 AU
conjunction	14346 Aug 01 16:05	22°♂24'02	-0°34'29	morning rise	14352 Feb 14 04:55	25°♂39'27	
minimum elong	14346 Aug 01 16:05	22°♂24'02	0°35'13		14352 Mar 05 02:10	0°♂	
morning rise	14346 Aug 14 14:32	25°♂25'28		retrograde	14352 Jun 17 19:42	13°♂39'45	
	14346 Sep 03 14:26	0°♂		min. Earth dist.	14352 Aug 16 03:55	8°♂47'35	4.33227 AU
retrograde	14346 Dec 20 10:50	14°♂44'36		opposition	14352 Aug 17 06:33	8°♂38'47	0°48'08
opposition	14347 Feb 18 07:52	9°♂49'01	-0°48'37	direct	14352 Oct 16 22:22	3°♂39'02	
min. Earth dist.	14347 Feb 19 11:20	9°♂39'59	4.03855 AU	evening set	14353 Feb 19 08:32	21°♂20'22	
direct	14347 Apr 19 03:19	4°♂51'37					
evening set	14347 Aug 23 22:04	24°♂30'25		conjunction	14353 Mar 04 15:35	24°♂13'36	0°28'41
max. Earth dist.	14347 Sep 04 23:50	27°♂25'14	5.96920 AU	minimum elong	14353 Mar 04 15:36	24°♂13'36	0°28'54
				max. Earth dist.	14353 Mar 05 19:05	24°♂28'33	6.40464 AU
conjunction	14347 Sep 06 00:49	27°♂40'20	-0°27'10	morning rise	14353 Mar 17 21:43	27°♂06'07	
minimum elong	14347 Sep 06 00:50	27°♂40'21	0°27'18		14353 Mar 31 11:59	0°♂	
	14347 Sep 15 15:52	0°♂		retrograde	14353 Jul 18 02:21	14°♂11'31	
morning rise	14347 Sep 19 04:51	0°♂51'12		opposition	14353 Sep 17 00:26	9°♂13'19	0°32'52
retrograde	14348 Jan 27 18:36	21°♂16'39		min. Earth dist.	14353 Sep 16 14:51	9°♂16'26	4.46024 AU
opposition	14348 Mar 27 04:15	16°♂18'40	-0°28'33	direct	14353 Nov 17 17:14	4°♂12'55	
min. Earth dist.	14348 Mar 27 07:52	16°♂17'28	3.91984 AU	evening set	14354 Mar 22 13:19	21°♂22'39	
direct	14348 May 24 18:27	11°♂23'03					
	14348 Sep 22 14:32	0°♂		conjunction	14354 Apr 04 16:25	24°♂10'42	0°15'12
evening set	14348 Sep 29 05:41	1°♂36'28		minimum elong	14354 Apr 04 16:26	24°♂10'43	0°14'52
				behind sun begin	14354 Apr 04 13:26	24°♂09'07	
conjunction	14348 Oct 12 14:04	4°♂52'34	-0°08'56	behind sun end	14354 Apr 04 19:26	24°♂12'18	
minimum elong	14348 Oct 12 14:04	4°♂52'34	0°08'25	max. Earth dist.	14354 Apr 04 16:19	24°♂10'39	6.49719 AU
behind sun begin	14348 Oct 12 06:47	4°♂48'07		morning rise	14354 Apr 17 17:49	26°♂57'56	
behind sun end	14348 Oct 12 21:21	4°♂57'01			14354 May 02 05:22	0°♂	
max. Earth dist.	14348 Oct 13 02:16	5°♂00'02	5.89728 AU	retrograde	14354 Aug 16 16:17	13°♂35'40	
morning rise	14348 Oct 26 00:21	8°♂09'42		opposition	14354 Oct 16 20:29	8°♂39'58	0°09'40
	14348 Nov 23 22:24	15°♂		min. Earth dist.	14354 Oct 17 06:11	8°♂36'51	4.51249 AU
retrograde	14349 Mar 06 15:14	29°♂01'06		direct	14354 Dec 18 05:09	3°♂39'19	
asc. node	14349 Mar 20 06:55	28°♂42'17		desc. node	14355 Mar 17 10:26	13°♂30'19	
opposition	14349 May 04 20:53	24°♂00'07	0°04'02		14355 Mar 25 04:24	15°♂	
min. Earth dist.	14349 May 04 00:20	24°♂07'04	3.90390 AU	evening set	14355 Apr 21 18:31	20°♂40'34	
direct	14349 Jul 01 22:50	19°♂04'46					
	14349 Sep 27 08:58	0°♂		conjunction	14355 May 04 17:53	23°♂26'52	-0°02'07
evening set	14349 Nov 06 11:48	9°♂13'35		minimum elong	14355 May 04 17:54	23°♂26'52	0°02'54
				behind sun begin	14355 May 04 09:55	23°♂22'37	
conjunction	14349 Nov 20 00:22	12°♂29'39	0°13'08	behind sun end	14355 May 05 01:53	23°♂31'07	

max. Earth dist.	14355 May 03 13:12	23°♄11'30	6.50521 AU			14361 May 04 10:52	30°♄♌	
morning rise	14355 May 17 15:47	26°♄12'29		min. Earth dist.		14361 May 09 02:37	29°♌22'22	3.90481 AU
	14355 Jun 04 18:33	0°♐		opposition		14361 May 10 01:45	29°♌14'32	0°08'37
retrograde	14355 Sep 15 16:49	12°♐52'48		direct		14361 Jul 07 02:29	24°♌19'05	
opposition	14355 Nov 15 20:17	7°♐58'37	-0°15'54			14361 Sep 05 13:42	0°♊	
min. Earth dist.	14355 Nov 17 00:06	7°♐49'43	4.47616 AU	evening set		14361 Nov 11 16:56	14°♊26'39	
direct	14356 Jan 17 08:31	2°♐57'51						
evening set	14356 May 20 23:36	20°♐15'05		conjunction		14361 Nov 25 05:48	17°♊42'31	0°15'51
max. Earth dist.	14356 May 31 20:12	22°♐36'52	6.42624 AU	minimum elong		14361 Nov 25 05:47	17°♊42'30	0°16'51
				max. Earth dist.		14361 Nov 27 06:25	18°♊11'52	5.94632 AU
conjunction	14356 Jun 02 20:39	23°♐03'19	-0°18'57	morning rise		14361 Dec 08 20:23	20°♊59'00	
minimum elong	14356 Jun 02 20:38	23°♐03'19	0°19'59			14362 Jan 17 09:08	0°♈	
morning rise	14356 Jun 15 16:18	25°♐51'08		retrograde		14362 Apr 17 23:37	11°♈14'34	
	14356 Jul 05 02:48	0°♄		min. Earth dist.		14362 Jun 14 21:31	6°♈24'12	4.01144 AU
retrograde	14356 Oct 16 02:05	13°♄04'22		opposition		14362 Jun 16 11:26	6°♈11'21	0°37'27
opposition	14356 Dec 16 00:47	8°♄10'35	-0°38'09	direct		14362 Aug 13 23:07	1°♈14'22	
min. Earth dist.	14356 Dec 17 14:30	7°♄58'28	4.35894 AU	evening set		14362 Dec 19 00:08	20°♈36'45	
direct	14357 Feb 16 00:10	3°♄10'13						
evening set	14357 Jun 21 04:37	21°♄06'02		conjunction		14363 Jan 01 13:12	23°♈45'45	0°30'44
max. Earth dist.	14357 Jul 01 17:06	23°♄28'06	6.27847 AU	minimum elong		14363 Jan 01 13:11	23°♈45'45	0°31'44
				max. Earth dist.		14363 Jan 04 01:16	24°♈20'44	6.09285 AU
conjunction	14357 Jul 04 01:08	23°♄59'45	-0°31'07	morning rise		14363 Jan 15 02:54	26°♈54'45	
minimum elong	14357 Jul 04 01:07	23°♄59'45	0°32'06			14363 Jan 28 15:58	0°♐	
morning rise	14357 Jul 16 20:58	26°♄53'29				14363 Apr 27 15:27	15°♐	
	14357 Jul 30 20:31	0°♌		retrograde		14363 May 22 09:27	15°♐58'55	
	14357 Nov 10 12:12	15°♌				14363 Jun 15 22:24	15°♐	
retrograde	14357 Nov 18 22:26	15°♌06'44		min. Earth dist.		14363 Jul 19 20:07	11°♐08'21	4.18156 AU
	14357 Nov 27 07:31	15°♌		opposition		14363 Jul 21 08:55	10°♐56'01	0°50'35
opposition	14358 Jan 18 08:10	10°♌12'22	-0°50'40	direct		14363 Sep 18 23:01	5°♐57'16	
min. Earth dist.	14358 Jan 19 23:03	9°♌59'45	4.18963 AU			14363 Dec 09 14:03	15°♐	
direct	14358 Mar 20 07:49	5°♌13'11		evening set		14364 Jan 23 02:32	24°♐21'53	
	14358 Jun 13 03:25	15°♌						
evening set	14358 Jul 24 06:46	24°♌03'31		conjunction		14364 Feb 05 13:00	27°♐21'56	0°34'13
max. Earth dist.	14358 Aug 04 04:58	26°♌37'05	6.10099 AU	minimum elong		14364 Feb 05 13:00	27°♐21'56	0°34'52
				max. Earth dist.		14364 Feb 07 14:41	27°♐49'42	6.27126 AU
conjunction	14358 Aug 06 05:30	27°♌05'37	-0°34'11			14364 Feb 17 08:25	0°♋	
minimum elong	14358 Aug 06 05:30	27°♌05'37	0°34'51	morning rise		14364 Feb 18 23:08	0°♋21'28	
	14358 Aug 18 14:32	0°♎		retrograde		14364 Jun 22 03:12	18°♋13'08	
morning rise	14358 Aug 19 04:38	0°♎08'15		opposition		14364 Aug 21 17:07	13°♋12'25	0°46'36
retrograde	14358 Dec 25 09:28	19°♎36'49		min. Earth dist.		14364 Aug 20 15:20	13°♋20'56	4.35270 AU
opposition	14359 Feb 23 05:49	14°♎40'55	-0°46'57	direct		14364 Oct 21 12:03	8°♋12'30	
min. Earth dist.	14359 Feb 24 06:31	14°♎32'47	4.01829 AU	evening set		14365 Feb 23 20:40	25°♋48'09	
direct	14359 Apr 23 20:20	9°♎43'40						
evening set	14359 Aug 28 18:33	29°♎29'05		conjunction		14365 Mar 09 03:13	28°♋40'27	0°27'07
	14359 Aug 30 21:50	0°♏		minimum elong		14365 Mar 09 03:14	28°♋40'27	0°27'15
				max. Earth dist.		14365 Mar 10 03:48	28°♋53'46	6.42241 AU
conjunction	14359 Sep 10 22:03	2°♏40'09	-0°25'14			14365 Mar 15 06:02	0°♑	
minimum elong	14359 Sep 10 22:04	2°♏40'10	0°25'18	morning rise		14365 Mar 22 08:35	1°♑31'59	
max. Earth dist.	14359 Sep 10 01:04	2°♏27'24	5.95196 AU	retrograde		14365 Jul 22 07:15	18°♑31'23	
morning rise	14359 Sep 24 02:56	5°♏52'13		opposition		14365 Sep 21 06:23	13°♑33'33	0°29'52
retrograde	14360 Feb 02 00:43	26°♏25'18		min. Earth dist.		14365 Sep 20 23:30	13°♑35'46	4.47384 AU
opposition	14360 Apr 01 08:12	21°♏26'53	-0°24'38	direct		14365 Nov 22 03:05	8°♑33'05	
min. Earth dist.	14360 Apr 01 09:45	21°♏26'23	3.90740 AU	evening set		14366 Mar 26 20:16	25°♑39'34	
direct	14360 May 29 20:08	16°♏31'20						
	14360 Sep 05 15:24	0°♎		conjunction		14366 Apr 08 22:41	28°♑27'04	0°12'52
evening set	14360 Oct 04 08:36	6°♎48'24		minimum elong		14366 Apr 08 22:41	28°♑27'04	0°12'28
				behind sun begin		14366 Apr 08 17:30	28°♑24'19	
conjunction	14360 Oct 17 17:55	10°♎05'13	-0°06'00	behind sun end		14366 Apr 09 03:53	28°♑29'50	
minimum elong	14360 Oct 17 17:56	10°♎05'13	0°05'24	max. Earth dist.		14366 Apr 08 17:28	28°♑24'18	6.50535 AU
behind sun begin	14360 Oct 17 09:54	10°♎00'19				14366 Apr 16 04:50	0°♈	
behind sun end	14360 Oct 18 01:58	10°♎10'08		morning rise		14366 Apr 21 23:39	1°♈13'48	
max. Earth dist.	14360 Oct 18 11:42	10°♎16'07	5.89106 AU			14366 Jul 07 19:48	15°♈	
morning rise	14360 Oct 31 04:58	13°♎23'01		retrograde		14366 Aug 20 20:30	17°♈49'30	
	14360 Nov 06 20:56	15°♎				14366 Oct 04 02:40	15°♈	
	14361 Jan 18 09:39	0°♊		opposition		14366 Oct 21 00:51	12°♈54'02	0°06'03
asc. node	14361 Feb 01 11:56	1°♊54'10		min. Earth dist.		14366 Oct 21 13:27	12°♈49'59	4.51464 AU
retrograde	14361 Mar 11 21:32	4°♊15'50		direct		14366 Dec 22 11:15	7°♈53'18	

desc. node	14367 Jan 21 15:41	9°♄12'42		conjunction	14372 Oct 23 03:59	15°♍33'56	-0°02'48
	14367 Mar 06 11:40	15°♄		minimum elong	14372 Oct 23 03:58	15°♍33'55	0°02'09
evening set	14367 Apr 25 23:20	24°♄54'43		behind sun begin	14372 Oct 22 19:37	15°♍28'49	
				behind sun end	14372 Oct 23 12:19	15°♍39'01	
conjunction	14367 May 08 22:26	27°♄41'01	-0°04'38	max. Earth dist.	14372 Oct 24 01:47	15°♍47'18	5.88986 AU
minimum elong	14367 May 08 22:26	27°♄41'01	0°05'27	morning rise	14372 Nov 05 15:56	18°♍52'10	
behind sun begin	14367 May 08 14:44	27°♄36'54		asc. node	14372 Dec 12 13:27	27°♍29'10	
behind sun end	14367 May 09 06:09	27°♄45'08			14372 Dec 24 10:13	0°♄	
max. Earth dist.	14367 May 07 15:37	27°♄24'29	6.50107 AU	retrograde	14373 Mar 17 06:11	9°♄43'50	
	14367 May 19 17:51	0°♄		min. Earth dist.	14373 May 14 08:33	4°♄51'14	3.91234 AU
morning rise	14367 May 21 19:44	0°♄26'37		opposition	14373 May 15 11:23	4°♄42'08	0°13'21
retrograde	14367 Sep 19 22:01	17°♄09'11			14373 Jul 01 03:45	30°♍	
opposition	14367 Nov 20 02:20	12°♄15'09	-0°19'22	direct	14373 Jul 12 12:13	29°♍46'34	
min. Earth dist.	14367 Nov 21 07:33	12°♄05'48	4.46591 AU		14373 Jul 23 21:28	0°♄	
direct	14368 Jan 21 13:08	7°♄14'27		evening set	14373 Nov 17 01:57	19°♄50'01	
evening set	14368 May 25 06:02	24°♄35'21					
max. Earth dist.	14368 Jun 04 23:57	26°♄56'13	6.41042 AU	conjunction	14373 Nov 30 15:09	23°♄05'15	0°18'33
				minimum elong	14373 Nov 30 15:08	23°♄05'14	0°19'35
conjunction	14368 Jun 07 02:46	27°♄24'05	-0°21'02	max. Earth dist.	14373 Dec 02 19:42	23°♄36'51	5.96197 AU
minimum elong	14368 Jun 07 02:45	27°♄24'05	0°22'04	morning rise	14373 Dec 14 05:44	26°♄20'58	
	14368 Jun 18 23:28	0°♄			14373 Dec 29 18:23	0°♄	
morning rise	14368 Jun 19 22:20	0°♄12'28		retrograde	14374 Apr 23 01:15	16°♄27'50	
retrograde	14368 Oct 20 16:14	17°♄32'17		min. Earth dist.	14374 Jun 19 23:46	11°♄37'25	4.03327 AU
opposition	14368 Dec 20 12:32	12°♄38'32	-0°40'38	opposition	14374 Jun 21 14:00	11°♄24'28	0°40'24
min. Earth dist.	14368 Dec 22 04:11	12°♄25'47	4.33827 AU	direct	14374 Aug 19 05:26	6°♄27'14	
direct	14369 Feb 20 10:23	7°♄38'17		evening set	14374 Dec 24 02:51	25°♄41'16	
evening set	14369 Jun 25 15:42	25°♄40'49					
max. Earth dist.	14369 Jul 06 03:24	28°♄03'13	6.25448 AU	conjunction	14375 Jan 06 15:40	28°♄48'59	0°31'57
				minimum elong	14375 Jan 06 15:40	28°♄48'59	0°32'56
conjunction	14369 Jul 08 12:25	28°♄35'36	-0°32'10	max. Earth dist.	14375 Jan 09 04:43	29°♄24'17	6.11871 AU
minimum elong	14369 Jul 08 12:25	28°♄35'36	0°33'08		14375 Jan 11 18:30	0°♄	
	14369 Jul 14 17:00	0°♄		morning rise	14375 Jan 20 04:58	1°♄56'35	
morning rise	14369 Jul 21 08:34	1°♄30'27			14375 Mar 24 17:00	15°♄	
	14369 Sep 26 18:03	15°♄		retrograde	14375 May 26 22:48	20°♄49'11	
retrograde	14369 Nov 23 18:54	19°♄53'47		min. Earth dist.	14375 Jul 24 12:46	15°♄58'48	4.20892 AU
opposition	14370 Jan 23 04:02	14°♄59'17	-0°51'13	opposition	14375 Jul 26 01:41	15°♄46'27	0°50'58
	14370 Jan 23 01:50	15°♄			14375 Jul 31 21:14	15°♄	
min. Earth dist.	14370 Jan 24 17:10	14°♄47'12	4.16403 AU	direct	14375 Sep 23 19:30	10°♄47'28	
direct	14370 Mar 24 22:24	10°♄00'21			14375 Nov 16 06:37	15°♄	
	14370 May 22 04:04	15°♄		evening set	14376 Jan 27 20:16	29°♄03'23	
evening set	14370 Jul 29 01:45	28°♄59'10			14376 Feb 01 02:31	0°♄	
	14370 Aug 02 09:22	0°♄					
max. Earth dist.	14370 Aug 09 03:24	1°♄35'38	6.07600 AU	conjunction	14376 Feb 10 06:05	2°♄02'03	0°33'46
				minimum elong	14376 Feb 10 06:06	2°♄02'03	0°34'22
conjunction	14370 Aug 11 01:00	2°♄02'36	-0°33'39	max. Earth dist.	14376 Feb 12 04:05	2°♄27'37	6.29782 AU
minimum elong	14370 Aug 11 01:01	2°♄02'36	0°34'14	morning rise	14376 Feb 23 15:33	5°♄00'11	
morning rise	14370 Aug 24 00:48	5°♄06'39		retrograde	14376 Jun 26 11:06	22°♄42'02	
retrograde	14370 Dec 30 17:41	24°♄46'14		min. Earth dist.	14376 Aug 25 03:21	17°♄49'06	4.37627 AU
opposition	14371 Feb 28 10:40	19°♄50'05	-0°44'51	opposition	14376 Aug 26 01:57	17°♄41'40	0°44'51
min. Earth dist.	14371 Mar 01 09:34	19°♄42'31	3.99612 AU	direct	14376 Oct 26 02:28	12°♄41'34	
direct	14371 Apr 28 21:57	14°♄53'07			14377 Feb 27 10:15	0°♄	
	14371 Aug 13 20:36	0°♄		evening set	14377 Feb 28 06:19	0°♄10'45	
evening set	14371 Sep 02 22:06	4°♄45'45					
max. Earth dist.	14371 Sep 15 10:42	7°♄48'24	5.93497 AU	conjunction	14377 Mar 13 12:15	3°♄02'04	0°25'26
				minimum elong	14377 Mar 13 12:16	3°♄02'04	0°25'29
conjunction	14371 Sep 16 02:35	7°♄58'04	-0°23'00	max. Earth dist.	14377 Mar 14 08:59	3°♄13'15	6.44118 AU
minimum elong	14371 Sep 16 02:35	7°♄58'04	0°22'58	morning rise	14377 Mar 26 16:55	5°♄52'36	
morning rise	14371 Sep 29 08:22	11°♄11'22		retrograde	14377 Jul 26 08:37	22°♄46'05	
	14372 Jan 04 12:14	0°♄		opposition	14377 Sep 25 10:01	17°♄48'32	0°26'49
retrograde	14372 Feb 07 12:33	1°♄51'27		min. Earth dist.	14377 Sep 25 05:26	17°♄50'02	4.48680 AU
	14372 Mar 12 13:07	30°♄		direct	14377 Nov 26 08:52	12°♄47'58	
opposition	14372 Apr 06 18:43	26°♄52'42	-0°20'15	evening set	14378 Mar 31 01:04	29°♄51'36	
min. Earth dist.	14372 Apr 06 16:24	26°♄53'29	3.89783 AU		14378 Mar 31 16:56	0°♄	
direct	14372 Jun 04 02:34	21°♄57'21					
	14372 Aug 16 07:40	0°♄		conjunction	14378 Apr 13 03:01	2°♄38'40	0°10'32
evening set	14372 Oct 09 18:03	12°♄16'43		minimum elong	14378 Apr 13 03:00	2°♄38'40	0°10'04
	14372 Oct 20 20:42	15°♄		behind sun begin	14378 Apr 12 20:34	2°♄35'15	

behind sun end	14378 Apr 13 09:27	2°♄42'05		max. Earth dist.	14383 Sep 20 22:43	13°♊15'21	5.92074 AU
max. Earth dist.	14378 Apr 12 18:17	2°♄34'01	6.51159 AU	morning rise	14383 Oct 04 16:50	16°♊36'39	
morning rise	14378 Apr 26 03:15	5°♄24'54			14383 Dec 04 03:39	0°♋	
	14378 Jun 13 20:59	15°♄		retrograde	14384 Feb 13 00:59	7°♋22'10	
retrograde	14378 Aug 24 22:25	21°♄59'18		opposition	14384 Apr 12 07:15	2°♋22'58	-0°15'39
opposition	14378 Oct 25 03:29	17°♄04'06	0°02'28	min. Earth dist.	14384 Apr 12 00:24	2°♋25'16	3.89255 AU
min. Earth dist.	14378 Oct 25 19:13	16°♄59'03	4.51381 AU		14384 Apr 30 20:05	30°♌♊	
	14378 Nov 10 18:42	15°♌♊		direct	14384 Jun 09 13:01	27°♊27'42	
desc. node	14378 Dec 01 01:00	13°♌01'40			14384 Jul 18 19:14	0°♋	
direct	14378 Dec 26 15:28	12°♌03'20			14384 Oct 03 16:03	15°♋	
	14379 Feb 10 10:30	15°♄		evening set	14384 Oct 15 05:00	17°♋47'17	
evening set	14379 Apr 30 03:00	29°♄05'52		asc. node	14384 Oct 20 00:35	18°♋57'48	
	14379 May 04 08:22	0°♌					
max. Earth dist.	14379 May 11 13:33	1°♌32'56	6.49301 AU	conjunction	14384 Oct 28 15:40	21°♋04'37	0°00'30
				minimum elong	14384 Oct 28 15:40	21°♋04'37	0°01'14
conjunction	14379 May 13 01:34	1°♌52'17	-0°07'03	behind sun begin	14384 Oct 28 07:19	20°♋59'31	
minimum elong	14379 May 13 01:33	1°♌52'17	0°07'56	behind sun end	14384 Oct 29 00:02	21°♋09'43	
behind sun begin	14379 May 12 18:24	1°♌48'27		max. Earth dist.	14384 Oct 29 20:23	21°♋22'12	5.89417 AU
behind sun end	14379 May 13 08:43	1°♌56'06		morning rise	14384 Nov 11 04:04	24°♋22'51	
morning rise	14379 May 25 22:41	4°♌38'05			14384 Dec 04 19:18	0°♌	
retrograde	14379 Sep 24 05:13	21°♌24'17		retrograde	14385 Mar 22 15:30	15°♌10'38	
opposition	14379 Nov 24 08:14	16°♌30'18	-0°22'43	opposition	14385 May 20 20:40	10°♌08'35	0°17'56
min. Earth dist.	14379 Nov 25 16:05	16°♌20'06	4.45105 AU	min. Earth dist.	14385 May 19 16:00	10°♌18'18	3.92553 AU
direct	14380 Jan 25 18:31	11°♌29'32		direct	14385 Jul 17 23:15	5°♌12'50	
evening set	14380 May 29 12:13	28°♌55'33		evening set	14385 Nov 22 10:14	25°♌10'01	
	14380 Jun 03 10:02	0°♍					
max. Earth dist.	14380 Jun 09 04:37	1°♍16'12	6.38972 AU	conjunction	14385 Dec 05 23:32	28°♌24'19	0°21'05
				minimum elong	14385 Dec 05 23:31	28°♌24'19	0°22'07
conjunction	14380 Jun 11 09:00	1°♍45'02	-0°23'00	max. Earth dist.	14385 Dec 08 07:20	28°♌57'41	5.98229 AU
minimum elong	14380 Jun 11 08:59	1°♍45'02	0°24'03		14385 Dec 12 15:40	0°♎	
morning rise	14380 Jun 24 04:25	4°♍34'11		morning rise	14385 Dec 19 14:09	1°♎39'02	
retrograde	14380 Oct 25 05:34	22°♍02'15		retrograde	14386 Apr 27 22:54	21°♎35'27	
opposition	14380 Dec 25 01:13	17°♍08'27	-0°42'55	min. Earth dist.	14386 Jun 24 22:41	16°♎45'28	4.05832 AU
min. Earth dist.	14380 Dec 26 16:53	16°♍55'41	4.31306 AU	opposition	14386 Jun 26 14:20	16°♎32'05	0°42'57
direct	14381 Feb 24 19:00	12°♍08'20		direct	14386 Aug 24 08:13	11°♎34'38	
	14381 Jun 28 18:41	0°♏			14386 Dec 26 05:48	0°♏	
evening set	14381 Jun 30 04:39	0°♏19'12		evening set	14386 Dec 29 03:17	0°♏39'40	
max. Earth dist.	14381 Jul 10 16:46	2°♏42'46	6.22663 AU				
				conjunction	14387 Jan 11 15:38	3°♏45'59	0°32'54
conjunction	14381 Jul 13 01:30	3°♏15'12	-0°33'02	minimum elong	14387 Jan 11 15:38	3°♏45'59	0°33'49
minimum elong	14381 Jul 13 01:30	3°♏15'12	0°33'59	max. Earth dist.	14387 Jan 14 02:15	4°♏19'42	6.14596 AU
morning rise	14381 Jul 25 22:06	6°♏11'22		morning rise	14387 Jan 25 04:33	6°♏52'10	
	14381 Sep 04 16:04	15°♏			14387 Mar 03 13:48	15°♏	
retrograde	14381 Nov 28 20:55	24°♏46'15		retrograde	14387 May 31 12:18	25°♏33'31	
opposition	14382 Jan 28 02:31	19°♏51'36	-0°51'27	min. Earth dist.	14387 Jul 29 05:55	20°♏42'36	4.23573 AU
min. Earth dist.	14382 Jan 29 15:00	19°♏39'41	4.13558 AU	opposition	14387 Jul 30 16:28	20°♏31'04	0°51'00
	14382 Mar 21 03:38	15°♏♌		direct	14387 Sep 28 15:44	15°♏31'53	
direct	14382 Mar 29 17:15	14°♏52'53			14388 Jan 15 14:33	0°♐	
	14382 Apr 07 05:54	15°♏		evening set	14388 Feb 01 11:50	3°♐39'50	
	14382 Jul 16 15:37	0°♑					
evening set	14382 Aug 02 23:33	4°♑01'09		conjunction	14388 Feb 14 21:15	6°♐37'18	0°33'07
max. Earth dist.	14382 Aug 14 05:29	6°♑41'03	6.04966 AU	minimum elong	14388 Feb 14 21:16	6°♐37'18	0°33'38
				max. Earth dist.	14388 Feb 16 17:08	7°♐01'34	6.32216 AU
conjunction	14382 Aug 15 23:36	7°♑06'06	-0°32'53	morning rise	14388 Feb 28 05:57	9°♐34'09	
minimum elong	14382 Aug 15 23:37	7°♑06'06	0°33'23	retrograde	14388 Jun 30 15:52	27°♐07'26	
morning rise	14382 Aug 29 00:09	10°♑11'41		opposition	14388 Aug 30 09:11	22°♐07'32	0°42'52
	14382 Dec 31 01:41	0°♒		min. Earth dist.	14388 Aug 29 12:17	22°♐14'23	4.39650 AU
retrograde	14383 Jan 05 03:56	0°♒02'32		direct	14388 Oct 30 12:21	17°♐07'23	
	14383 Jan 10 05:35	30°♑♒			14389 Feb 11 00:40	0°♑	
opposition	14383 Mar 05 18:37	25°♑06'07	-0°42'21	evening set	14389 Mar 04 15:14	4°♑31'37	
min. Earth dist.	14383 Mar 06 13:47	24°♑59'46	3.97475 AU				
direct	14383 May 03 23:55	20°♑09'30		conjunction	14389 Mar 17 20:30	7°♑22'06	0°23'37
	14383 Jul 25 20:07	0°♒		minimum elong	14389 Mar 17 20:31	7°♑22'07	0°23'35
evening set	14383 Sep 08 04:47	10°♒08'48		max. Earth dist.	14389 Mar 18 11:53	7°♑30'23	6.45598 AU
				morning rise	14389 Mar 31 00:35	10°♑11'51	
conjunction	14383 Sep 21 09:56	13°♒22'12	-0°20'33	retrograde	14389 Jul 30 12:49	27°♑01'00	
minimum elong	14383 Sep 21 09:57	13°♒22'12	0°20'24	opposition	14389 Sep 29 13:55	22°♑03'55	0°23'37

min. Earth dist.	14389 Sep 29 13:17	22° Υ 04'07	4.49533 AU	evening set	14395 Sep 13 11:19	15° Ω 32'00	
direct	14389 Nov 30 16:10	17° Υ 03'17					
	14390 Mar 15 13:03	0° \mathcal{B}		conjunction	14395 Sep 26 17:21	18° Ω 46'06	-0°17'58
evening set	14390 Apr 04 06:13	4° \mathcal{B} 05'35		minimum elong	14395 Sep 26 17:22	18° Ω 46'06	0°17'44
				max. Earth dist.	14395 Sep 26 13:30	18° Ω 43'44	5.91401 AU
conjunction	14390 Apr 17 07:40	6° \mathcal{B} 52'23	0°08'08	morning rise	14395 Oct 10 00:52	22° Ω 01'12	
minimum elong	14390 Apr 17 07:40	6° \mathcal{B} 52'23	0°07'36		14395 Nov 13 02:20	0° \mathcal{M}	
behind sun begin	14390 Apr 17 00:23	6° \mathcal{B} 48'31		retrograde	14396 Feb 18 12:43	12° \mathcal{M} 48'35	
behind sun end	14390 Apr 17 14:57	6° \mathcal{B} 56'15		opposition	14396 Apr 17 17:39	7° \mathcal{M} 48'55	-0°11'02
max. Earth dist.	14390 Apr 16 18:16	6° \mathcal{B} 45'15	6.51325 AU	min. Earth dist.	14396 Apr 17 07:51	7° \mathcal{M} 52'13	3.89480 AU
morning rise	14390 Apr 30 07:29	9° \mathcal{B} 38'25		direct	14396 Jun 14 23:03	2° \mathcal{M} 53'41	
	14390 May 26 07:44	15° \mathcal{B}		asc. node	14396 Aug 27 23:15	11° \mathcal{M} 06'10	
retrograde	14390 Aug 29 02:09	26° \mathcal{B} 13'08			14396 Sep 15 14:34	15° \mathcal{M}	
desc. node	14390 Oct 12 02:34	23° \mathcal{B} 25'54		evening set	14396 Oct 20 13:01	23° \mathcal{M} 10'26	
opposition	14390 Oct 29 07:40	21° \mathcal{B} 18'09	-0°01'11				
min. Earth dist.	14390 Oct 30 01:36	21° \mathcal{B} 12'24	4.50866 AU	conjunction	14396 Nov 03 00:04	26° \mathcal{M} 27'26	0°03'36
direct	14390 Dec 30 19:26	16° \mathcal{B} 17'21		minimum elong	14396 Nov 03 00:04	26° \mathcal{M} 27'26	0°04'26
	14391 Apr 18 07:30	0° \mathcal{I}		behind sun begin	14396 Nov 02 15:52	26° \mathcal{M} 22'27	
evening set	14391 May 04 08:15	3° \mathcal{I} 22'20		behind sun end	14396 Nov 03 08:16	26° \mathcal{M} 32'25	
max. Earth dist.	14391 May 15 16:44	5° \mathcal{I} 48'39	6.48138 AU	max. Earth dist.	14396 Nov 04 09:21	26° \mathcal{M} 47'46	5.90491 AU
				morning rise	14396 Nov 16 12:59	29° \mathcal{M} 45'20	
conjunction	14391 May 17 06:37	6° \mathcal{I} 09'04	-0°09'30		14396 Nov 17 13:13	0° \mathcal{J}	
minimum elong	14391 May 17 06:36	6° \mathcal{I} 09'04	0°10'25	retrograde	14397 Mar 27 17:48	20° \mathcal{J} 26'29	
behind sun begin	14391 May 17 00:20	6° \mathcal{I} 05'42		min. Earth dist.	14397 May 24 17:39	15° \mathcal{J} 34'50	3.94363 AU
behind sun end	14391 May 17 12:52	6° \mathcal{I} 12'26		opposition	14397 May 26 01:17	15° \mathcal{J} 24'07	0°22'09
morning rise	14391 May 30 03:15	8° \mathcal{I} 55'10		direct	14397 Jul 23 04:28	10° \mathcal{J} 28'09	
retrograde	14391 Sep 28 14:04	25° \mathcal{I} 46'07			14397 Nov 26 07:57	0° \mathcal{Z}	
opposition	14391 Nov 28 16:32	20° \mathcal{I} 52'17	-0°26'02	evening set	14397 Nov 27 13:33	0° \mathcal{Z} 17'30	
min. Earth dist.	14391 Nov 30 02:09	20° \mathcal{I} 41'32	4.43362 AU				
direct	14392 Jan 30 01:22	15° \mathcal{I} 51'38		conjunction	14397 Dec 11 02:41	3° \mathcal{Z} 30'38	0°23'19
	14392 May 18 04:25	0° \mathcal{E}		minimum elong	14397 Dec 11 02:40	3° \mathcal{Z} 30'38	0°24'22
evening set	14392 Jun 02 21:19	3° \mathcal{E} 23'30		max. Earth dist.	14397 Dec 13 10:33	4° \mathcal{Z} 03'51	6.00561 AU
max. Earth dist.	14392 Jun 13 10:56	5° \mathcal{E} 43'23	6.36765 AU	morning rise	14397 Dec 24 17:12	6° \mathcal{Z} 44'09	
				retrograde	14398 May 02 16:03	26° \mathcal{Z} 29'31	
conjunction	14392 Jun 15 17:51	6° \mathcal{E} 13'47	-0°24'54	min. Earth dist.	14398 Jun 29 18:40	21° \mathcal{Z} 39'12	4.08422 AU
minimum elong	14392 Jun 15 17:50	6° \mathcal{E} 13'47	0°25'56	opposition	14398 Jul 01 09:21	21° \mathcal{Z} 26'08	0°45'04
morning rise	14392 Jun 28 13:27	9° \mathcal{E} 03'51		direct	14398 Aug 29 08:15	16° \mathcal{Z} 28'22	
retrograde	14392 Oct 30 00:04	26° \mathcal{E} 40'41			14398 Dec 09 15:15	0° \approx	
opposition	14392 Dec 29 17:14	21° \mathcal{E} 46'51	-0°45'00	evening set	14399 Jan 02 22:21	5° \approx 24'32	
min. Earth dist.	14392 Dec 31 09:13	21° \mathcal{E} 33'56	4.28777 AU				
direct	14393 Mar 01 08:03	16° \mathcal{E} 46'52		conjunction	14399 Jan 16 10:30	8° \approx 29'33	0°33'35
	14393 Jun 11 21:36	0° Ω		minimum elong	14399 Jan 16 10:30	8° \approx 29'33	0°34'28
evening set	14393 Jul 04 20:12	5° Ω 05'57		max. Earth dist.	14399 Jan 18 20:32	9° \approx 02'43	6.17221 AU
max. Earth dist.	14393 Jul 15 10:48	7° Ω 31'44	6.20037 AU	morning rise	14399 Jan 29 22:44	11° \approx 34'18	
					14399 Feb 14 07:07	15° \approx	
conjunction	14393 Jul 17 17:31	8° Ω 03'11	-0°33'43		14399 May 28 13:37	0° \mathcal{H}	
minimum elong	14393 Jul 17 17:31	8° Ω 03'11	0°34'36	retrograde	14399 Jun 04 20:18	0° \mathcal{H} 05'08	
morning rise	14393 Jul 30 14:24	11° Ω 00'37			14399 Jun 12 02:14	30° \mathcal{R} \approx	
	14393 Aug 17 07:12	15° Ω		min. Earth dist.	14399 Aug 02 17:09	25° \approx 14'05	4.26010 AU
retrograde	14393 Dec 04 00:10	29° Ω 46'22		opposition	14399 Aug 04 02:18	25° \approx 03'03	0°50'44
opposition	14394 Feb 02 03:48	24° Ω 51'34	-0°51'20	direct	14399 Oct 03 04:55	20° \approx 03'44	
min. Earth dist.	14394 Feb 03 13:57	24° Ω 40'25	4.11077 AU		14399 Dec 29 08:02	0° \mathcal{H}	
direct	14394 Apr 03 13:00	19° Ω 53'14		evening set	14400 Feb 05 23:04	8° \mathcal{H} 04'51	
	14394 Jun 28 03:46	0° \mathcal{M}					
evening set	14394 Aug 07 23:34	9° \mathcal{M} 09'20		conjunction	14400 Feb 19 07:50	11° \mathcal{H} 01'14	0°32'19
max. Earth dist.	14394 Aug 19 09:17	11° \mathcal{M} 52'18	6.02872 AU	minimum elong	14400 Feb 19 07:50	11° \mathcal{H} 01'14	0°32'46
				max. Earth dist.	14400 Feb 20 22:16	11° \mathcal{H} 22'24	6.34278 AU
conjunction	14394 Aug 21 00:02	12° \mathcal{M} 15'27	-0°31'52	morning rise	14400 Mar 03 16:04	13° \mathcal{H} 57'02	
minimum elong	14394 Aug 21 00:03	12° \mathcal{M} 15'27	0°32'17		14400 Jun 04 17:46	0° \mathcal{Y}	
morning rise	14394 Sep 03 01:28	15° \mathcal{M} 22'21		retrograde	14400 Jul 04 19:47	1° \mathcal{Y} 23'24	
	14394 Nov 11 12:23	0° Ω			14400 Aug 03 17:14	30° \mathcal{R} \mathcal{H}	
retrograde	14395 Jan 10 13:05	5° Ω 22'07		opposition	14400 Sep 03 13:18	26° \mathcal{H} 23'54	0°40'48
opposition	14395 Mar 11 03:23	0° Ω 25'17	-0°39'32	min. Earth dist.	14400 Sep 02 20:02	26° \mathcal{H} 29'34	4.41219 AU
min. Earth dist.	14395 Mar 11 18:26	0° Ω 20'17	3.96003 AU	direct	14400 Nov 03 20:15	21° \mathcal{H} 23'39	
	14395 Mar 14 07:35	30° \mathcal{R} \mathcal{M}			14401 Jan 24 11:27	0° \mathcal{Y}	
direct	14395 May 09 05:14	25° \mathcal{M} 28'55		evening set	14401 Mar 08 20:51	8° \mathcal{Y} 44'24	
	14395 Jul 01 23:20	0° Ω					

conjunction	14401 Mar 22 01:46	11° Υ 34'22	0°21'47	min. Earth dist.	14406 Feb 08 11:22	29° Ω 37'17	4.08874 AU
minimum elong	14401 Mar 22 01:47	11° Υ 34'22	0°21'41	direct	14406 Apr 08 08:25	24° Ω 49'36	
max. Earth dist.	14401 Mar 22 14:09	11° Υ 41'00	6.46582 AU		14406 Jun 06 03:27	0° \mathbb{N}	
morning rise	14401 Apr 04 05:10	14° Υ 23'30		evening set	14406 Aug 12 21:38	14° \mathbb{N} 12'38	
	14401 Jul 06 20:48	0° \mathcal{B}					
retrograde	14401 Aug 03 13:20	1° \mathcal{B} 10'01		conjunction	14406 Aug 25 22:54	17° \mathbb{N} 19'56	-0°30'35
	14401 Aug 31 04:08	30° $\mathcal{R}\Upsilon$		minimum elong	14406 Aug 25 22:55	17° \mathbb{N} 19'57	0°30'56
opposition	14401 Oct 03 15:46	26° Υ 13'18	0°20'27	max. Earth dist.	14406 Aug 24 13:24	16° \mathbb{N} 59'50	6.01010 AU
min. Earth dist.	14401 Oct 03 16:58	26° Υ 12'54	4.49912 AU	morning rise	14406 Sep 08 00:56	20° \mathbb{N} 28'00	
direct	14401 Dec 04 18:32	21° Υ 12'42			14406 Oct 20 02:34	0° $\underline{\mathcal{A}}$	
	14402 Feb 26 05:04	0° \mathcal{B}		retrograde	14407 Jan 15 21:54	10° $\underline{\mathcal{A}}$ 35'53	
evening set	14402 Apr 08 09:57	8° \mathcal{B} 15'04		opposition	14407 Mar 16 09:51	5° $\underline{\mathcal{A}}$ 38'45	-0°36'21
				min. Earth dist.	14407 Mar 16 22:26	5° $\underline{\mathcal{A}}$ 34'34	3.94668 AU
conjunction	14402 Apr 21 10:54	11° \mathcal{B} 01'47	0°05'46	direct	14407 May 14 08:22	0° $\underline{\mathcal{A}}$ 42'41	
minimum elong	14402 Apr 21 10:54	11° \mathcal{B} 01'47	0°05'10	evening set	14407 Sep 18 15:36	20° $\underline{\mathcal{A}}$ 49'20	
behind sun begin	14402 Apr 21 03:08	10° \mathcal{B} 57'39					
behind sun end	14402 Apr 21 18:41	11° \mathcal{B} 05'55		conjunction	14407 Oct 01 22:17	24° $\underline{\mathcal{A}}$ 04'07	-0°15'14
max. Earth dist.	14402 Apr 20 17:44	10° \mathcal{B} 52'38	6.51083 AU	minimum elong	14407 Oct 01 22:18	24° $\underline{\mathcal{A}}$ 04'07	0°14'55
morning rise	14402 May 04 10:16	13° \mathcal{B} 47'46		behind sun begin	14407 Oct 01 19:06	24° $\underline{\mathcal{A}}$ 02'10	
	14402 May 10 03:02	15° \mathcal{B}		behind sun end	14407 Oct 02 01:30	24° $\underline{\mathcal{A}}$ 06'04	
	14402 Aug 17 03:26	0° \mathbb{I}		max. Earth dist.	14407 Oct 01 22:25	24° $\underline{\mathcal{A}}$ 04'12	5.90717 AU
desc. node	14402 Aug 25 22:25	0° \mathbb{I} 18'57		morning rise	14407 Oct 15 06:47	27° $\underline{\mathcal{A}}$ 19'58	
retrograde	14402 Sep 02 06:55	0° \mathbb{I} 23'58			14407 Oct 26 08:01	0° \mathbb{M}	
	14402 Sep 18 08:23	30° $\mathcal{R}\mathcal{B}$			14408 Jan 10 01:02	15° \mathbb{M}	
opposition	14402 Nov 02 11:11	25° \mathcal{B} 29'17	-0°04'42	retrograde	14408 Feb 23 20:01	18° \mathbb{M} 09'33	
min. Earth dist.	14402 Nov 03 08:09	25° \mathcal{B} 22'34	4.50037 AU		14408 Apr 09 01:40	15° $\mathcal{R}\mathbb{M}$	
direct	14403 Jan 03 23:45	20° \mathcal{B} 28'31		min. Earth dist.	14408 Apr 22 11:30	13° \mathbb{M} 14'13	3.89551 AU
	14403 Apr 01 04:36	0° \mathbb{I}		opposition	14408 Apr 23 01:28	13° \mathbb{M} 09'30	-0°06'21
evening set	14403 May 08 12:58	7° \mathbb{I} 36'48		direct	14408 Jun 20 04:21	8° \mathbb{M} 14'17	
max. Earth dist.	14403 May 19 17:26	10° \mathbb{I} 01'28	6.46773 AU	asc. node	14408 Jul 06 05:01	8° \mathbb{M} 40'40	
					14408 Aug 25 15:22	15° \mathbb{M}	
conjunction	14403 May 21 10:58	10° \mathbb{I} 23'55	-0°11'50	evening set	14408 Oct 25 19:27	28° \mathbb{M} 29'27	
minimum elong	14403 May 21 10:58	10° \mathbb{I} 23'55	0°12'47		14408 Nov 01 00:33	0° \mathcal{A}	
behind sun begin	14403 May 21 05:58	10° \mathbb{I} 21'13					
behind sun end	14403 May 21 15:58	10° \mathbb{I} 26'36		conjunction	14408 Nov 08 06:57	1° \mathcal{A} 46'17	0°06'39
morning rise	14403 Jun 03 07:31	13° \mathbb{I} 10'29		minimum elong	14408 Nov 08 06:56	1° \mathcal{A} 46'17	0°07'31
	14403 Sep 24 11:01	0° \mathcal{B}		behind sun begin	14408 Nov 07 23:21	1° \mathcal{A} 41'40	
retrograde	14403 Oct 02 23:29	0° \mathcal{B} 06'49		behind sun end	14408 Nov 08 14:31	1° \mathcal{A} 50'53	
	14403 Oct 11 12:21	30° $\mathcal{R}\mathbb{I}$		max. Earth dist.	14408 Nov 09 19:30	2° \mathcal{A} 08'34	5.91301 AU
opposition	14403 Dec 03 00:55	25° \mathbb{I} 13'02	-0°29'08	morning rise	14408 Nov 21 20:19	5° \mathcal{A} 03'57	
min. Earth dist.	14403 Dec 04 11:10	25° \mathbb{I} 02'04	4.41551 AU	retrograde	14409 Apr 01 20:03	25° \mathcal{A} 39'59	
direct	14404 Feb 03 07:09	20° \mathbb{I} 12'26		min. Earth dist.	14409 May 29 19:50	20° \mathcal{A} 48'26	3.95803 AU
	14404 Apr 30 20:15	0° \mathcal{B}		opposition	14409 May 31 04:30	20° \mathcal{A} 37'21	0°26'11
evening set	14404 Jun 07 05:47	7° \mathcal{B} 50'10		direct	14409 Jul 28 10:19	15° \mathcal{A} 41'09	
max. Earth dist.	14404 Jun 17 20:26	10° \mathcal{B} 11'15	6.34635 AU		14409 Nov 09 06:14	0° \mathcal{B}	
				evening set	14409 Dec 02 16:28	5° \mathcal{B} 24'32	
conjunction	14404 Jun 20 02:24	10° \mathcal{B} 41'17	-0°26'35				
minimum elong	14404 Jun 20 02:24	10° \mathcal{B} 41'17	0°27'39	conjunction	14409 Dec 16 05:50	8° \mathcal{B} 36'49	0°25'24
morning rise	14404 Jul 02 21:52	13° \mathcal{B} 32'10		minimum elong	14409 Dec 16 05:49	8° \mathcal{B} 36'49	0°26'27
	14404 Oct 05 16:58	0° Ω		max. Earth dist.	14409 Dec 18 16:22	9° \mathcal{B} 11'28	6.02490 AU
retrograde	14404 Nov 03 17:21	1° Ω 17'26		morning rise	14409 Dec 29 20:07	11° \mathcal{B} 49'20	
	14404 Dec 02 17:34	30° $\mathcal{R}\mathcal{B}$			14410 Apr 07 15:32	0° \approx	
opposition	14405 Jan 03 08:52	26° \mathcal{B} 23'33	-0°46'45	retrograde	14410 May 07 10:41	1° \approx 25'20	
min. Earth dist.	14405 Jan 05 00:42	26° \mathcal{B} 10'41	4.26461 AU		14410 Jun 06 00:35	30° $\mathcal{R}\mathcal{B}$	
direct	14405 Mar 05 20:04	21° \mathcal{B} 23'49		min. Earth dist.	14410 Jul 04 13:58	26° \mathcal{B} 35'06	4.10627 AU
	14405 May 24 11:24	0° Ω		opposition	14410 Jul 06 04:38	26° \mathcal{B} 22'04	0°46'53
evening set	14405 Jul 09 11:07	9° Ω 50'11		direct	14410 Sep 03 06:27	21° \mathcal{B} 24'06	
max. Earth dist.	14405 Jul 20 02:18	12° Ω 17'08	6.17694 AU		14410 Nov 20 17:36	0° \approx	
				evening set	14411 Jan 07 18:33	10° \approx 12'56	
conjunction	14405 Jul 22 08:31	12° Ω 48'28	-0°34'09				
minimum elong	14405 Jul 22 08:31	12° Ω 48'28	0°34'59	conjunction	14411 Jan 21 06:13	13° \approx 16'47	0°34'03
	14405 Jul 31 20:10	15° Ω		minimum elong	14411 Jan 21 06:13	13° \approx 16'47	0°34'53
morning rise	14405 Aug 04 05:58	15° Ω 47'06		max. Earth dist.	14411 Jan 23 13:28	13° \approx 48'12	6.19495 AU
	14405 Oct 13 12:13	0° \mathbb{N}			14411 Jan 28 19:58	15° \approx	
retrograde	14405 Dec 09 01:44	4° \mathbb{N} 42'46		morning rise	14411 Feb 03 18:11	16° \approx 20'22	
	14406 Feb 05 14:02	30° $\mathcal{R}\Omega$			14411 Apr 13 15:43	0° \mathcal{H}	
opposition	14406 Feb 07 03:35	29° Ω 47'42	-0°50'47	retrograde	14411 Jun 09 06:04	4° \mathcal{H} 42'02	

	14411 Aug 06 02:24	30° \approx		minimum elong	14416 Jun 24 08:45	15° \approx 03'32"	0°29'09"
min. Earth dist.	14411 Aug 07 06:33	29° \approx 50'39"	4.28169 AU	morning rise	14416 Jul 07 04:22	17° \approx 55'03"	
opposition	14411 Aug 08 13:53	29° \approx 40'13"	0°50'09"		14416 Sep 05 08:27	0° Ω	
direct	14411 Oct 07 20:00	24° \approx 40'44"		retrograde	14416 Nov 08 06:42	5° Ω 46'58"	
	14411 Dec 08 03:22	0° \mathbb{X}		opposition	14417 Jan 07 21:33	0° Ω 52'53"	-0°48'09"
evening set	14412 Feb 10 12:09	12° \mathbb{X} 35'49"		min. Earth dist.	14417 Jan 09 12:48	0° Ω 40'11"	4.24593 AU
					14417 Jan 14 17:48	30° \mathbb{R} \approx	
conjunction	14412 Feb 23 20:34	15° \mathbb{X} 31'16"	0°31'18"	direct	14417 Mar 10 05:15	25° \approx 53'12"	
minimum elong	14412 Feb 23 20:35	15° \mathbb{X} 31'17"	0°31'39"		14417 May 02 05:29	0° Ω	
max. Earth dist.	14412 Feb 25 09:11	15° \mathbb{X} 51'21"	6.36191 AU	evening set	14417 Jul 13 22:16	14° Ω 25'24"	
morning rise	14412 Mar 08 04:02	18° \mathbb{X} 26'02"			14417 Jul 16 10:21	15° Ω	
	14412 May 05 22:57	0° \mathbb{Y}		max. Earth dist.	14417 Jul 24 16:09	16° Ω 54'30"	6.15685 AU
retrograde	14412 Jul 09 00:28	5° \mathbb{Y} 45'44"					
opposition	14412 Sep 07 19:27	0° \mathbb{Y} 46'40"	0°38'24"	conjunction	14417 Jul 26 20:06	17° Ω 24'40"	-0°34'20"
min. Earth dist.	14412 Sep 07 03:54	0° \mathbb{Y} 51'45"	4.42778 AU	minimum elong	14417 Jul 26 20:06	17° Ω 24'40"	0°35'06"
	14412 Sep 13 18:58	30° \mathbb{R} \mathbb{X}		morning rise	14417 Aug 08 17:48	20° Ω 24'17"	
direct	14412 Nov 08 05:15	25° \mathbb{X} 46'27"			14417 Sep 21 16:31	0° \mathbb{P}	
	14413 Jan 02 05:55	0° \mathbb{Y}		retrograde	14417 Dec 13 23:51	9° \mathbb{P} 28'49"	
evening set	14413 Mar 13 04:50	13° \mathbb{Y} 03'28"		opposition	14418 Feb 11 23:27	4° \mathbb{P} 33'31"	-0°49'54"
				min. Earth dist.	14418 Feb 13 06:42	4° \mathbb{P} 23'17"	4.06868 AU
conjunction	14413 Mar 26 09:02	15° \mathbb{Y} 52'46"	0°19'46"		14418 Mar 28 06:05	30° \mathbb{R} Ω	
minimum elong	14413 Mar 26 09:03	15° \mathbb{Y} 52'46"	0°19'35"	direct	14418 Apr 13 00:55	29° Ω 35'38"	
max. Earth dist.	14413 Mar 26 16:36	15° \mathbb{Y} 56'48"	6.47709 AU		14418 Apr 28 19:03	0° \mathbb{P}	
morning rise	14413 Apr 08 12:00	18° \mathbb{Y} 41'17"		evening set	14418 Aug 17 15:43	19° \mathbb{P} 05'04"	
	14413 Jun 06 09:02	0° \mathbb{B}		max. Earth dist.	14418 Aug 29 09:29	21° \mathbb{P} 54'12"	5.99180 AU
retrograde	14413 Aug 07 17:28	5° \mathbb{B} 24'26"					
opposition	14413 Oct 07 19:42	0° \mathbb{B} 28'02"	0°17'05"	conjunction	14418 Aug 30 17:32	22° \mathbb{P} 13'29"	-0°29'09"
min. Earth dist.	14413 Oct 07 23:57	0° \mathbb{B} 26'39"	4.50574 AU	minimum elong	14418 Aug 30 17:33	22° \mathbb{P} 13'30"	0°29'23"
	14413 Oct 11 10:42	30° \mathbb{R} \mathbb{Y}		morning rise	14418 Sep 12 20:30	25° \mathbb{P} 22'47"	
direct	14413 Dec 09 01:10	25° \mathbb{Y} 27'24"			14418 Oct 02 11:24	0° $\underline{\mathbb{A}}$	
	14414 Feb 04 18:56	0° \mathbb{B}		retrograde	14419 Jan 21 00:29	15° $\underline{\mathbb{A}}$ 38'51"	
evening set	14414 Apr 12 14:40	12° \mathbb{B} 28'31"		opposition	14419 Mar 21 11:48	10° $\underline{\mathbb{A}}$ 41'22"	-0°33'02"
	14414 Apr 24 11:09	15° \mathbb{B}		min. Earth dist.	14419 Mar 21 20:50	10° $\underline{\mathbb{A}}$ 38'21"	3.93209 AU
				direct	14419 May 19 06:10	5° $\underline{\mathbb{A}}$ 45'25"	
conjunction	14414 Apr 25 15:14	15° \mathbb{B} 15'00"	0°03'20"	evening set	14419 Sep 23 16:28	25° $\underline{\mathbb{A}}$ 56'41"	
minimum elong	14414 Apr 25 15:14	15° \mathbb{B} 15'00"	0°02'39"				
behind sun begin	14414 Apr 25 07:13	15° \mathbb{B} 10'44"		conjunction	14419 Oct 06 23:59	29° $\underline{\mathbb{A}}$ 12'18"	-0°12'30"
behind sun end	14414 Apr 25 23:15	15° \mathbb{B} 19'15"		minimum elong	14419 Oct 06 24:00	29° $\underline{\mathbb{A}}$ 12'18"	0°12'06"
max. Earth dist.	14414 Apr 24 19:40	15° \mathbb{B} 04'33"	6.51256 AU	behind sun begin	14419 Oct 06 18:21	29° $\underline{\mathbb{A}}$ 08'51"	
morning rise	14414 May 08 14:02	18° \mathbb{B} 00'42"		behind sun end	14419 Oct 07 05:38	29° $\underline{\mathbb{A}}$ 15'45"	
desc. node	14414 Jul 08 10:21	29° \mathbb{B} 35'21"		max. Earth dist.	14419 Oct 07 04:30	29° $\underline{\mathbb{A}}$ 15'03"	5.89787 AU
	14414 Jul 11 03:47	0° \mathbb{I}			14419 Oct 10 05:43	0° \mathbb{M}	
retrograde	14414 Sep 06 09:53	4° \mathbb{I} 36'55"		morning rise	14419 Oct 20 09:18	2° \mathbb{M} 28'59"	
	14414 Nov 04 08:16	30° \mathbb{R} \mathbb{B}			14419 Dec 15 00:41	15° \mathbb{M}	
opposition	14414 Nov 06 15:24	29° \mathbb{B} 42'21"	-0°08'15"	retrograde	14420 Feb 29 01:27	23° \mathbb{M} 22'00"	
min. Earth dist.	14414 Nov 07 13:12	29° \mathbb{B} 35'23"	4.49727 AU	opposition	14420 Apr 28 05:59	18° \mathbb{M} 21'34"	-0°01'45"
direct	14415 Jan 08 03:06	24° \mathbb{B} 41'37"		min. Earth dist.	14420 Apr 27 14:03	18° \mathbb{M} 26'58"	3.89252 AU
	14415 Mar 11 21:54	0° \mathbb{I}		asc. node	14420 May 18 09:05	15° \mathbb{M} 47'00"	
evening set	14415 May 12 17:19	11° \mathbb{I} 51'08"			14420 May 25 18:03	15° \mathbb{R} \mathbb{M}	
max. Earth dist.	14415 May 23 20:11	14° \mathbb{I} 15'12"	6.45998 AU	direct	14420 Jun 25 08:13	13° \mathbb{M} 26'17"	
					14420 Jul 25 19:39	15° \mathbb{M}	
conjunction	14415 May 25 14:56	14° \mathbb{I} 38'22"	-0°14'07"		14420 Oct 15 13:02	0° \mathbb{X}	
minimum elong	14415 May 25 14:55	14° \mathbb{I} 38'21"	0°15'05"	evening set	14420 Oct 30 23:37	3° \mathbb{X} 41'41"	
behind sun begin	14415 May 25 12:04	14° \mathbb{I} 36'49"					
behind sun end	14415 May 25 17:46	14° \mathbb{I} 39'53"		conjunction	14420 Nov 13 11:51	6° \mathbb{X} 58'39"	0°09'34"
morning rise	14415 Jun 07 11:03	17° \mathbb{I} 25'03"		minimum elong	14420 Nov 13 11:50	6° \mathbb{X} 58'39"	0°10'28"
	14415 Aug 12 14:52	0° \approx		behind sun begin	14420 Nov 13 05:19	6° \mathbb{X} 54'42"	
retrograde	14415 Oct 07 07:54	4° \approx 24'45"		behind sun end	14420 Nov 13 18:21	7° \mathbb{X} 02'36"	
	14415 Dec 03 13:29	30° \mathbb{R} \mathbb{I}		max. Earth dist.	14420 Nov 15 05:23	7° \mathbb{X} 23'56"	5.91669 AU
opposition	14415 Dec 07 08:13	29° \mathbb{I} 31'00"	-0°32'02"	morning rise	14420 Nov 27 01:39	10° \mathbb{X} 16'21"	
min. Earth dist.	14415 Dec 08 20:26	29° \mathbb{I} 19'23"	4.40338 AU		14421 Mar 15 15:45	0° \mathbb{Z}	
direct	14416 Feb 07 14:04	24° \mathbb{I} 30'26"		retrograde	14421 Apr 06 22:45	0° \mathbb{Z} 49'03"	
	14416 Apr 10 17:57	0° \approx			14421 Apr 29 01:12	30° \mathbb{R} \mathbb{X}	
evening set	14416 Jun 11 12:21	12° \approx 11'53"		min. Earth dist.	14421 Jun 03 19:53	25° \mathbb{X} 57'56"	3.96799 AU
max. Earth dist.	14416 Jun 22 00:30	14° \approx 32'08"	6.33053 AU	opposition	14421 Jun 05 06:19	25° \mathbb{X} 46'16"	0°29'55"
				direct	14421 Aug 02 12:54	20° \mathbb{X} 49'54"	
conjunction	14416 Jun 24 08:45	15° \approx 03'32"	-0°28'06"		14421 Oct 21 09:05	0° \mathbb{Z}	

evening set	14421 Dec 07 19:07	10°♄29'12			14427 Feb 08 00:52	0°♈	
conjunction	14421 Dec 21 08:24	13°♄40'48 0°27'15		evening set	14427 May 16 22:58	16°♈09'32	
minimum elong	14421 Dec 21 08:23	13°♄40'47 0°28'17		max. Earth dist.	14427 May 27 22:38	18°♈32'15	6.44765 AU
max. Earth dist.	14421 Dec 23 19:20	14°♄15'32 6.03991 AU		conjunction	14427 May 29 20:22	18°♈57'06 -0°16'23	
morning rise	14422 Jan 03 22:50	16°♄52'35		minimum elong	14427 May 29 20:21	18°♈57'06 0°17'23	
	14422 Mar 07 05:06	0°♈		morning rise	14427 Jun 11 16:15	21°♈44'11	
retrograde	14422 May 12 03:53	6°♈20'51			14427 Jul 21 23:53	0°♈	
min. Earth dist.	14422 Jul 09 08:57	1°♈30'46 4.12474 AU		retrograde	14427 Oct 11 17:37	8°♈49'03	
opposition	14422 Jul 11 00:01	1°♈17'36 0°48'21		opposition	14427 Dec 11 17:49	3°♈55'17 -0°34'54	
	14422 Jul 20 17:37	30°♈♄		min. Earth dist.	14427 Dec 13 06:29	3°♈43'31 4.38576 AU	
direct	14422 Sep 08 04:23	26°♄19'23			14428 Jan 16 00:13	30°♈♈	
	14422 Oct 27 08:38	0°♈		direct	14428 Feb 11 20:20	28°♈54'47	
evening set	14423 Jan 12 15:35	15°♈02'10			14428 Mar 09 19:34	0°♈	
	14423 Jan 12 11:43	15°♈		evening set	14428 Jun 15 21:44	16°♈42'02	
				max. Earth dist.	14428 Jun 26 10:10	19°♈03'05 6.30880 AU	
conjunction	14423 Jan 26 03:04	18°♈05'01 0°34'16		conjunction	14428 Jun 28 18:10	19°♈34'32 -0°29'31	
minimum elong	14423 Jan 26 03:04	18°♈05'01 0°35'03		minimum elong	14428 Jun 28 18:10	19°♈34'32 0°30'32	
max. Earth dist.	14423 Jan 28 09:53	18°♈36'04 6.21540 AU		morning rise	14428 Jul 11 13:48	22°♈26'57	
morning rise	14423 Feb 08 14:25	21°♈07'29			14428 Aug 15 19:36	0°♈	
	14423 Mar 22 10:43	0°♈		retrograde	14428 Nov 13 02:39	10°♈27'53	
retrograde	14423 Jun 13 17:51	9°♈20'33		opposition	14429 Jan 12 14:44	5°♈33'42 -0°49'22	
min. Earth dist.	14423 Aug 11 20:37	4°♈28'56 4.30214 AU		min. Earth dist.	14429 Jan 14 06:48	5°♈20'44 4.22137 AU	
opposition	14423 Aug 13 02:25	4°♈19'03 0°49'13		direct	14429 Mar 14 19:29	0°♈34'13	
	14423 Sep 21 21:01	30°♈♈			14429 Jun 29 22:36	15°♈	
direct	14423 Oct 12 12:52	29°♈19'27		evening set	14429 Jul 18 14:41	19°♈14'26	
	14423 Nov 02 08:31	0°♈		max. Earth dist.	14429 Jul 29 08:58	21°♈44'40 6.13146 AU	
evening set	14424 Feb 15 02:26	17°♈08'41					
conjunction	14424 Feb 28 10:13	20°♈03'08 0°30'04		conjunction	14429 Jul 31 12:51	22°♈14'57 -0°34'19	
minimum elong	14424 Feb 28 10:14	20°♈03'09 0°30'21		minimum elong	14429 Jul 31 12:51	22°♈14'57 0°35'03	
max. Earth dist.	14424 Feb 29 19:17	20°♈21'13 6.38062 AU		morning rise	14429 Aug 13 11:14	25°♈15'56	
morning rise	14424 Mar 12 17:12	22°♈56'55			14429 Sep 03 05:18	0°♈	
	14424 Apr 15 15:17	0°♈		retrograde	14429 Dec 19 02:35	14°♈31'22	
retrograde	14424 Jul 13 05:55	10°♈09'58		opposition	14430 Feb 17 01:20	9°♈35'48 -0°48'38	
opposition	14424 Sep 12 02:41	5°♈11'11 0°35'46		min. Earth dist.	14430 Feb 18 05:35	9°♈26'31 4.04468 AU	
min. Earth dist.	14424 Sep 11 13:20	5°♈15'33 4.44336 AU		direct	14430 Apr 17 21:31	4°♈38'09	
direct	14424 Nov 12 15:36	0°♈10'50		evening set	14430 Aug 22 16:41	24°♈15'32	
evening set	14425 Mar 17 13:13	17°♈23'58					
conjunction	14425 Mar 30 17:00	20°♈12'37 0°17'36		conjunction	14430 Sep 04 19:19	27°♈25'15 -0°27'24	
minimum elong	14425 Mar 30 17:01	20°♈12'38 0°17'21		minimum elong	14430 Sep 04 19:20	27°♈25'16 0°27'33	
max. Earth dist.	14425 Mar 30 22:23	20°♈15'30 6.48825 AU		max. Earth dist.	14430 Sep 03 16:09	27°♈08'50 5.97158 AU	
morning rise	14425 Apr 12 19:08	23°♈00'27			14430 Sep 15 11:26	0°♈	
	14425 May 17 03:15	0°♈		morning rise	14430 Sep 17 23:07	0°♈35'54	
retrograde	14425 Aug 11 20:25	9°♈40'19		retrograde	14431 Jan 26 12:39	21°♈00'42	
opposition	14425 Oct 12 00:14	4°♈44'12 0°13'34		opposition	14431 Mar 26 21:05	16°♈02'50 -0°29'13	
min. Earth dist.	14425 Oct 12 06:24	4°♈42'14 4.51159 AU		min. Earth dist.	14431 Mar 27 03:34	16°♈00'40 3.91781 AU	
	14425 Nov 29 20:18	30°♈♈		direct	14431 May 24 12:50	11°♈07'03	
direct	14425 Dec 13 07:08	29°♈43'35			14431 Sep 23 08:53	0°♈	
	14425 Dec 26 20:37	0°♈		evening set	14431 Sep 29 00:20	1°♈22'20	
	14426 Apr 08 15:00	15°♈					
evening set	14426 Apr 16 20:15	16°♈43'48		conjunction	14431 Oct 12 08:47	4°♈38'43 -0°09'30	
conjunction	14426 Apr 29 20:08	19°♈30'02 0°00'46		minimum elong	14431 Oct 12 08:47	4°♈38'43 0°08'59	
minimum elong	14426 Apr 29 20:09	19°♈30'02 0°00'03		behind sun begin	14431 Oct 12 01:41	4°♈34'23	
behind sun begin	14426 Apr 29 13:08	19°♈26'19		behind sun end	14431 Oct 12 15:54	4°♈43'04	
behind sun end	14426 Apr 30 03:10	19°♈33'46		max. Earth dist.	14431 Oct 12 19:31	4°♈45'18 5.89116 AU	
max. Earth dist.	14426 Apr 28 19:58	19°♈17'07 6.51238 AU		morning rise	14431 Oct 25 18:55	7°♈56'07	
morning rise	14426 May 12 18:33	22°♈15'35			14431 Nov 24 15:39	15°♈	
desc. node	14426 May 17 07:33	23°♈13'15		retrograde	14432 Mar 05 12:45	28°♈50'41	
	14426 Jun 20 02:22	0°♈		asc. node	14432 Mar 29 13:04	27°♈53'08	
retrograde	14426 Sep 10 16:40	8°♈52'37		opposition	14432 May 03 16:34	23°♈49'54 0°03'07	
opposition	14426 Nov 10 20:44	3°♈58'15 -0°11'50		min. Earth dist.	14432 May 02 21:01	23°♈56'30 3.89452 AU	
min. Earth dist.	14426 Nov 11 21:52	3°♈50'12 4.49090 AU		direct	14432 Jun 30 17:01	18°♈54'36	
	14426 Dec 16 21:09	30°♈♈			14432 Sep 26 20:21	0°♈	
direct	14427 Jan 12 09:35	28°♈57'28		evening set	14432 Nov 05 09:34	9°♈07'49	
				conjunction	14432 Nov 18 22:02	12°♈24'26 0°12'33	

minimum elong	14432 Nov 18 22:01	12° \mathbb{A} 24'26	0°13'30	max. Earth dist.	14438 May 02 20:28	23° \mathbb{B} 25'45	6.50913 AU
behind sun begin	14432 Nov 18 17:25	12° \mathbb{A} 21'39		morning rise	14438 May 16 21:10	26° \mathbb{B} 25'36	
behind sun end	14432 Nov 19 02:38	12° \mathbb{A} 27'13			14438 Jun 02 22:53	0° \mathbb{B}	
max. Earth dist.	14432 Nov 20 18:29	12° \mathbb{A} 51'23	5.92709 AU	retrograde	14438 Sep 14 20:17	13° \mathbb{B} 04'40	
morning rise	14432 Dec 02 12:21	15° \mathbb{A} 41'47		opposition	14438 Nov 15 01:08	8° \mathbb{B} 10'27	-0°15'19
	14433 Feb 06 23:02	0° \mathbb{B}		min. Earth dist.	14438 Nov 16 04:04	8° \mathbb{B} 01'50	4.48065 AU
retrograde	14433 Apr 12 01:20	6° \mathbb{B} 07'46		direct	14439 Jan 16 12:46	3° \mathbb{B} 09'42	
min. Earth dist.	14433 Jun 08 22:35	1° \mathbb{B} 17'11	3.98566 AU	evening set	14439 May 21 04:04	20° \mathbb{B} 25'34	
opposition	14433 Jun 10 11:19	1° \mathbb{B} 04'44	0°33'34	max. Earth dist.	14439 Jun 01 00:20	22° \mathbb{B} 47'02	6.43092 AU
	14433 Jun 18 12:03	30° \mathbb{R} \mathbb{A}					
direct	14433 Aug 07 19:52	26° \mathbb{A} 08'04		conjunction	14439 Jun 03 01:06	23° \mathbb{B} 13'39	-0°18'33
	14433 Sep 26 10:38	0° \mathbb{B}		minimum elong	14439 Jun 03 01:05	23° \mathbb{B} 13'39	0°19'34
evening set	14433 Dec 13 00:18	15° \mathbb{B} 40'10		morning rise	14439 Jun 15 20:54	26° \mathbb{B} 01'20	
					14439 Jul 04 12:16	0° \mathbb{B}	
conjunction	14433 Dec 26 13:34	18° \mathbb{B} 50'37	0°28'58	retrograde	14439 Oct 16 06:23	13° \mathbb{B} 13'00	
minimum elong	14433 Dec 26 13:33	18° \mathbb{B} 50'37	0°29'58	opposition	14439 Dec 16 04:01	8° \mathbb{B} 19'17	-0°37'35
max. Earth dist.	14433 Dec 29 02:02	19° \mathbb{B} 26'05	6.06326 AU	min. Earth dist.	14439 Dec 17 19:00	8° \mathbb{B} 06'45	4.36338 AU
morning rise	14434 Jan 09 03:36	22° \mathbb{B} 01'08		direct	14440 Feb 16 05:00	3° \mathbb{B} 18'51	
	14434 Feb 14 00:27	0° \mathbb{B}		evening set	14440 Jun 20 08:05	21° \mathbb{B} 13'33	
retrograde	14434 May 16 22:48	11° \mathbb{B} 18'18		max. Earth dist.	14440 Jun 30 19:11	23° \mathbb{B} 34'43	6.28240 AU
min. Earth dist.	14434 Jul 14 05:56	6° \mathbb{B} 27'58	4.15113 AU				
opposition	14434 Jul 15 20:06	6° \mathbb{B} 15'08	0°49'30	conjunction	14440 Jul 03 04:42	24° \mathbb{B} 07'11	-0°30'47
direct	14434 Sep 13 05:21	1° \mathbb{B} 16'40		minimum elong	14440 Jul 03 04:42	24° \mathbb{B} 07'11	0°31'47
	14434 Dec 26 11:00	15° \mathbb{B}		morning rise	14440 Jul 16 00:37	27° \mathbb{B} 00'47	
evening set	14435 Jan 17 12:10	19° \mathbb{B} 50'31			14440 Jul 29 11:07	0° \mathbb{B}	
					14440 Nov 06 12:04	15° \mathbb{B}	
conjunction	14435 Jan 30 23:08	22° \mathbb{B} 52'00	0°34'18	retrograde	14440 Nov 17 22:45	15° \mathbb{B} 12'30	
minimum elong	14435 Jan 30 23:08	22° \mathbb{B} 52'00	0°35'01		14440 Nov 29 10:19	15° \mathbb{R} \mathbb{B}	
max. Earth dist.	14435 Feb 02 04:23	23° \mathbb{B} 21'57	6.24245 AU	opposition	14441 Jan 17 09:46	10° \mathbb{B} 18'13	-0°50'19
morning rise	14435 Feb 13 09:57	25° \mathbb{B} 53'02		min. Earth dist.	14441 Jan 19 00:15	10° \mathbb{B} 05'43	4.19288 AU
	14435 Mar 04 05:05	0° \mathbb{B}		direct	14441 Mar 19 08:58	5° \mathbb{B} 18'59	
retrograde	14435 Jun 18 01:20	13° \mathbb{B} 55'29			14441 Jun 11 18:59	15° \mathbb{B}	
min. Earth dist.	14435 Aug 16 08:52	9° \mathbb{B} 03'44	4.32760 AU	evening set	14441 Jul 23 09:25	24° \mathbb{B} 08'45	
opposition	14435 Aug 17 13:32	8° \mathbb{B} 54'14	0°48'03	max. Earth dist.	14441 Aug 03 07:18	26° \mathbb{B} 42'02	6.10333 AU
direct	14435 Oct 17 03:45	3° \mathbb{B} 54'26					
evening set	14436 Feb 19 14:33	21° \mathbb{B} 36'22		conjunction	14441 Aug 05 08:08	27° \mathbb{B} 10'44	-0°34'05
				minimum elong	14441 Aug 05 08:08	27° \mathbb{B} 10'44	0°34'45
conjunction	14436 Mar 03 21:45	24° \mathbb{B} 29'42	0°28'43		14441 Aug 17 08:30	0° \mathbb{B}	
minimum elong	14436 Mar 03 21:46	24° \mathbb{B} 29'42	0°28'56	morning rise	14441 Aug 18 07:10	0° \mathbb{B} 13'15	
max. Earth dist.	14436 Mar 05 03:16	24° \mathbb{B} 45'45	6.40264 AU	retrograde	14441 Dec 24 11:38	19° \mathbb{B} 40'51	
morning rise	14436 Mar 17 03:53	27° \mathbb{B} 22'18		opposition	14442 Feb 22 06:43	14° \mathbb{B} 45'05	-0°47'00
	14436 Mar 29 11:25	0° \mathbb{B}		min. Earth dist.	14442 Feb 23 09:05	14° \mathbb{B} 36'24	4.01943 AU
retrograde	14436 Jul 17 09:41	14° \mathbb{B} 28'00		direct	14442 Apr 22 23:10	9° \mathbb{B} 47'47	
opposition	14436 Sep 16 07:44	9° \mathbb{B} 29'38	0°33'02	evening set	14442 Aug 27 20:45	29° \mathbb{B} 33'24	
min. Earth dist.	14436 Sep 15 21:29	9° \mathbb{B} 32'58	4.46038 AU		14442 Aug 29 16:52	0° \mathbb{B}	
direct	14436 Nov 17 01:02	4° \mathbb{B} 29'12		max. Earth dist.	14442 Sep 09 02:20	2° \mathbb{B} 31'09	5.95187 AU
evening set	14437 Mar 21 19:25	21° \mathbb{B} 38'13					
				conjunction	14442 Sep 10 00:18	2° \mathbb{B} 44'28	-0°25'25
conjunction	14437 Apr 03 22:28	24° \mathbb{B} 26'13	0°15'25	minimum elong	14442 Sep 10 00:19	2° \mathbb{B} 44'29	0°25'28
minimum elong	14437 Apr 03 22:29	24° \mathbb{B} 26'13	0°15'04	morning rise	14442 Sep 23 05:02	5° \mathbb{B} 56'30	
behind sun begin	14437 Apr 03 19:46	24° \mathbb{B} 24'47		retrograde	14443 Feb 01 01:51	26° \mathbb{B} 29'27	
behind sun end	14437 Apr 04 01:11	24° \mathbb{B} 27'39		opposition	14443 Apr 01 09:07	21° \mathbb{B} 31'15	-0°25'06
max. Earth dist.	14437 Apr 03 22:08	24° \mathbb{B} 26'02	6.49898 AU	min. Earth dist.	14443 Apr 01 11:04	21° \mathbb{B} 30'35	3.90623 AU
morning rise	14437 Apr 17 00:08	27° \mathbb{B} 13'25		direct	14443 May 29 20:16	16° \mathbb{B} 35'44	
	14437 Apr 30 05:45	0° \mathbb{B}			14443 Sep 05 08:46	0° \mathbb{B}	
retrograde	14437 Aug 15 22:50	13° \mathbb{B} 50'28		evening set	14443 Oct 04 11:03	6° \mathbb{B} 53'49	
opposition	14437 Oct 16 02:57	8° \mathbb{B} 54'37	0°10'05				
min. Earth dist.	14437 Oct 16 12:23	8° \mathbb{B} 51'35	4.51550 AU	conjunction	14443 Oct 17 20:04	10° \mathbb{B} 10'38	-0°06'23
direct	14437 Dec 17 11:52	3° \mathbb{B} 53'53		minimum elong	14443 Oct 17 20:05	10° \mathbb{B} 10'39	0°05'48
	14438 Mar 23 05:40	15° \mathbb{B}		behind sun begin	14443 Oct 17 12:07	10° \mathbb{B} 05'47	
desc. node	14438 Mar 24 18:43	15° \mathbb{B} 18'09		behind sun end	14443 Oct 18 04:02	10° \mathbb{B} 15'31	
evening set	14438 Apr 20 23:43	20° \mathbb{B} 53'54		max. Earth dist.	14443 Oct 18 11:39	10° \mathbb{B} 20'12	5.88884 AU
				morning rise	14443 Oct 31 07:07	13° \mathbb{B} 28'32	
conjunction	14438 May 03 23:20	23° \mathbb{B} 40'07	-0°01'46		14443 Nov 06 13:50	15° \mathbb{B}	
minimum elong	14438 May 03 23:21	23° \mathbb{B} 40'07	0°02'32		14444 Jan 17 19:18	0° \mathbb{B}	
behind sun begin	14438 May 03 15:21	23° \mathbb{B} 35'52		asc. node	14444 Feb 08 19:48	2° \mathbb{A} 47'32	
behind sun end	14438 May 04 07:21	23° \mathbb{B} 44'23		retrograde	14444 Mar 10 23:08	4° \mathbb{A} 22'23	

	14444 May 04 08:58	30° \mathbb{M}		desc. node	14450 Jan 28 21:05	10° \mathcal{B} 12'17	
min. Earth dist.	14444 May 08 04:34	29° \mathbb{M} 29'05	3.90179 AU		14450 Mar 04 08:03	15° \mathcal{B}	
opposition	14444 May 09 03:59	29° \mathbb{M} 21'09	0°07'57	evening set	14450 Apr 25 04:40	25° \mathcal{B} 08'31	
direct	14444 Jul 06 04:50	24° \mathbb{M} 25'44		max. Earth dist.	14450 May 06 19:46	27° \mathcal{B} 37'40	6.50173 AU
	14444 Sep 03 23:51	0° \mathcal{A}					
evening set	14444 Nov 10 19:45	14° \mathcal{A} 34'36		conjunction	14450 May 08 03:45	27° \mathcal{B} 54'49	-0°04'16
				minimum elong	14450 May 08 03:44	27° \mathcal{B} 54'48	0°05'05
conjunction	14444 Nov 24 08:38	17° \mathcal{A} 50'36	0°15'25	behind sun begin	14450 May 07 19:58	27° \mathcal{B} 50'40	
minimum elong	14444 Nov 24 08:37	17° \mathcal{A} 50'35	0°16'25	behind sun end	14450 May 08 11:30	27° \mathcal{B} 58'57	
max. Earth dist.	14444 Nov 26 09:47	18° \mathcal{A} 20'18	5.94302 AU		14450 May 17 21:30	0° \mathbb{I}	
morning rise	14444 Dec 07 22:58	21° \mathcal{A} 07'10		morning rise	14450 May 21 01:21	0° \mathbb{I} 40'27	
	14445 Jan 15 19:28	0° \mathcal{B}		retrograde	14450 Sep 19 04:03	17° \mathbb{I} 22'47	
retrograde	14445 Apr 17 04:34	11° \mathcal{B} 24'20		opposition	14450 Nov 19 07:45	12° \mathbb{I} 28'40	-0°18'48
min. Earth dist.	14445 Jun 14 02:16	6° \mathcal{B} 33'43	4.00803 AU	min. Earth dist.	14450 Nov 20 13:17	12° \mathbb{I} 19'12	4.46678 AU
opposition	14445 Jun 15 15:29	6° \mathcal{B} 21'06	0°36'52	direct	14451 Jan 20 19:08	7° \mathbb{I} 27'51	
direct	14445 Aug 13 03:27	1° \mathcal{B} 24'12		evening set	14451 May 25 11:21	24° \mathbb{I} 48'32	
evening set	14445 Dec 18 03:51	20° \mathcal{B} 47'34		max. Earth dist.	14451 Jun 05 06:10	27° \mathbb{I} 09'47	6.41152 AU
conjunction	14445 Dec 31 16:51	23° \mathcal{B} 56'42	0°30'25	conjunction	14451 Jun 07 08:24	27° \mathbb{I} 37'19	-0°20'39
minimum elong	14445 Dec 31 16:51	23° \mathcal{B} 56'42	0°31'25	minimum elong	14451 Jun 07 08:23	27° \mathbb{I} 37'18	0°21'42
max. Earth dist.	14446 Jan 03 06:09	24° \mathcal{B} 32'24	6.08954 AU		14451 Jun 18 04:55	0° \mathcal{C}	
morning rise	14446 Jan 14 06:34	27° \mathcal{B} 05'50		morning rise	14451 Jun 20 03:59	0° \mathcal{C} 25'41	
	14446 Jan 26 23:37	0° \approx		retrograde	14451 Oct 20 19:58	17° \mathcal{C} 44'57	
	14446 Apr 24 07:33	15° \approx		opposition	14451 Dec 20 17:11	12° \mathcal{C} 51'12	-0°40'08
retrograde	14446 May 21 13:14	16° \approx 11'20		min. Earth dist.	14451 Dec 22 08:08	12° \mathcal{C} 38'41	4.33969 AU
	14446 Jun 17 16:20	15° \mathcal{R} \approx		direct	14452 Feb 20 14:26	7° \mathcal{C} 50'56	
min. Earth dist.	14446 Jul 18 23:49	11° \approx 21'10	4.17871 AU	evening set	14452 Jun 24 21:20	25° \mathcal{C} 53'18	
opposition	14446 Jul 20 14:03	11° \approx 08'21	0°50'16	max. Earth dist.	14452 Jul 05 08:55	28° \mathcal{C} 15'36	6.25621 AU
direct	14446 Sep 18 02:51	6° \approx 09'40					
	14446 Dec 07 15:58	15° \approx		conjunction	14452 Jul 07 18:00	28° \mathcal{C} 48'01	-0°31'53
evening set	14447 Jan 22 06:54	24° \approx 34'48		minimum elong	14452 Jul 07 18:00	28° \mathcal{C} 48'01	0°32'52
					14452 Jul 13 00:44	0° \mathcal{O}	
conjunction	14447 Feb 04 17:16	27° \approx 34'54	0°34'05	morning rise	14452 Jul 20 14:15	1° \mathcal{O} 42'49	
minimum elong	14447 Feb 04 17:16	27° \approx 34'54	0°34'44		14452 Sep 24 17:06	15° \mathcal{O}	
max. Earth dist.	14447 Feb 06 18:45	28° \approx 02'35	6.26901 AU	retrograde	14452 Nov 23 00:23	20° \mathcal{O} 05'18	
	14447 Feb 15 13:11	0° \mathcal{H}		opposition	14453 Jan 22 08:19	15° \mathcal{O} 10'52	-0°50'57
morning rise	14447 Feb 18 03:26	0° \mathcal{H} 34'33			14453 Jan 23 17:44	15° \mathcal{R} \mathcal{O}	
retrograde	14447 Jun 22 10:13	18° \mathcal{H} 27'09		min. Earth dist.	14453 Jan 23 22:12	14° \mathcal{O} 58'33	4.16615 AU
opposition	14447 Aug 21 23:11	13° \mathcal{H} 26'19	0°46'35	direct	14453 Mar 24 04:15	10° \mathcal{O} 11'54	
min. Earth dist.	14447 Aug 20 21:47	13° \mathcal{H} 34'42	4.35104 AU		14453 May 20 03:58	15° \mathcal{O}	
direct	14447 Oct 21 18:54	8° \mathcal{H} 26'24		evening set	14453 Jul 28 06:55	29° \mathcal{O} 10'15	
evening set	14448 Feb 24 01:22	26° \mathcal{H} 02'04			14453 Jul 31 19:44	0° \mathbb{P}	
				max. Earth dist.	14453 Aug 08 08:45	1° \mathbb{P} 46'42	6.07873 AU
conjunction	14448 Mar 08 08:01	28° \mathcal{H} 54'26	0°27'12	conjunction	14453 Aug 10 06:16	2° \mathbb{P} 13'35	-0°33'36
minimum elong	14448 Mar 08 08:02	28° \mathcal{H} 54'26	0°27'20	minimum elong	14453 Aug 10 06:16	2° \mathbb{P} 13'35	0°34'11
max. Earth dist.	14448 Mar 09 09:39	29° \mathcal{H} 08'19	6.42128 AU	morning rise	14453 Aug 23 05:57	5° \mathbb{P} 17'29	
	14448 Mar 13 09:02	0° \mathcal{Y}		retrograde	14453 Dec 29 20:27	24° \mathbb{P} 55'28	
morning rise	14448 Mar 21 13:31	1° \mathcal{Y} 46'03		opposition	14454 Feb 27 13:55	19° \mathbb{P} 59'26	-0°44'58
retrograde	14448 Jul 21 12:12	18° \mathcal{Y} 45'54		min. Earth dist.	14454 Feb 28 12:24	19° \mathbb{P} 52'00	3.99971 AU
opposition	14448 Sep 20 12:23	13° \mathcal{Y} 47'54	0°30'07	direct	14454 Apr 28 00:46	15° \mathbb{P} 02'29	
min. Earth dist.	14448 Sep 20 04:26	13° \mathcal{Y} 50'29	4.47328 AU		14454 Aug 12 10:11	0° \mathcal{Q}	
direct	14448 Nov 21 07:48	8° \mathcal{Y} 47'23		evening set	14454 Sep 02 02:20	4° \mathcal{Q} 53'56	
evening set	14449 Mar 26 01:21	25° \mathcal{Y} 53'42					
conjunction	14449 Apr 08 03:57	28° \mathcal{Y} 41'15	0°13'08	conjunction	14454 Sep 15 06:28	8° \mathcal{Q} 05'57	-0°23'14
minimum elong	14449 Apr 08 03:57	28° \mathcal{Y} 41'15	0°12'43	minimum elong	14454 Sep 15 06:29	8° \mathcal{Q} 05'57	0°23'12
behind sun begin	14449 Apr 07 22:56	28° \mathcal{Y} 38'35		max. Earth dist.	14454 Sep 14 13:18	7° \mathcal{Q} 55'30	5.93910 AU
behind sun end	14449 Apr 08 08:58	28° \mathcal{Y} 43'55		morning rise	14454 Sep 28 12:11	11° \mathcal{Q} 18'59	
max. Earth dist.	14449 Apr 08 00:06	28° \mathcal{Y} 39'12	6.50534 AU		14455 Jan 02 16:57	0° \mathbb{M}	
	14449 Apr 14 07:26	0° \mathcal{B}		retrograde	14455 Feb 06 13:00	1° \mathbb{M} 56'51	
morning rise	14449 Apr 21 04:54	1° \mathcal{B} 27'59			14455 Mar 13 11:23	30° \mathcal{R} \mathcal{Q}	
	14449 Jul 05 03:18	15° \mathcal{B}		opposition	14455 Apr 06 20:37	26° \mathcal{Q} 58'09	-0°20'49
retrograde	14449 Aug 20 01:54	18° \mathcal{B} 03'42		min. Earth dist.	14455 Apr 06 18:14	26° \mathcal{Q} 58'57	3.90205 AU
	14449 Oct 05 08:59	15° \mathcal{R} \mathcal{B}		direct	14455 Jun 04 05:52	22° \mathcal{Q} 02'45	
opposition	14449 Oct 20 06:40	13° \mathcal{B} 08'10	0°06'30		14455 Aug 16 00:32	0° \mathbb{M}	
min. Earth dist.	14449 Oct 20 19:12	13° \mathcal{B} 04'08	4.51503 AU	evening set	14455 Oct 09 20:03	12° \mathbb{M} 20'26	
direct	14449 Dec 21 17:22	8° \mathcal{B} 07'25			14455 Oct 20 16:57	15° \mathbb{M}	

conjunction	14455 Oct 23 05:50	15° \mathbb{M} 37'21	-0°03'17	behind sun end	14461 Apr 12 13:54	2° \mathcal{S} 54'39	
minimum elong	14455 Oct 23 05:49	15° \mathbb{M} 37'20	0°02'38	max. Earth dist.	14461 Apr 11 23:16	2° \mathcal{S} 46'52	6.50701 AU
behind sun begin	14455 Oct 22 21:30	15° \mathbb{M} 32'15		morning rise	14461 Apr 25 08:08	5° \mathcal{S} 37'50	
behind sun end	14455 Oct 23 14:09	15° \mathbb{M} 42'25			14461 Jun 11 18:47	15° \mathcal{S}	
max. Earth dist.	14455 Oct 24 04:29	15° \mathbb{M} 51'13	5.89383 AU	retrograde	14461 Aug 24 04:13	22° \mathcal{S} 13'48	
morning rise	14455 Nov 05 17:17	18° \mathbb{M} 55'11		opposition	14461 Oct 24 09:19	17° \mathcal{S} 18'32	0°03'01
asc. node	14455 Dec 21 12:07	29° \mathbb{M} 25'36		min. Earth dist.	14461 Oct 24 23:51	17° \mathcal{S} 13'52	4.51043 AU
	14455 Dec 24 06:46	0° \mathcal{S}			14461 Nov 12 02:51	15° \mathcal{R} \mathcal{S}	
retrograde	14456 Mar 16 07:29	9° \mathcal{S} 45'09		desc. node	14461 Dec 08 17:26	12° \mathcal{S} 44'15	
min. Earth dist.	14456 May 13 10:48	4° \mathcal{S} 52'08	3.91533 AU	direct	14461 Dec 25 19:44	12° \mathcal{S} 17'48	
opposition	14456 May 14 12:13	4° \mathcal{S} 43'31	0°12'32		14462 Feb 07 14:21	15° \mathcal{S}	
	14456 Jun 30 19:25	30° \mathcal{R} \mathbb{M}		evening set	14462 Apr 29 08:42	29° \mathcal{S} 21'18	
direct	14456 Jul 11 14:32	29° \mathbb{M} 47'59			14462 May 02 09:14	0° \mathbb{I}	
	14456 Jul 22 09:01	0° \mathcal{S}		max. Earth dist.	14462 May 10 21:57	1° \mathbb{I} 49'48	6.49125 AU
evening set	14456 Nov 16 02:04	19° \mathcal{S} 50'12					
conjunction	14456 Nov 29 15:01	23° \mathcal{S} 05'16	0°18'02	conjunction	14462 May 12 07:36	2° \mathbb{I} 07'53	-0°06'39
minimum elong	14456 Nov 29 15:00	23° \mathcal{S} 05'15	0°19'03	minimum elong	14462 May 12 07:35	2° \mathbb{I} 07'53	0°07'32
max. Earth dist.	14456 Dec 01 19:08	23° \mathcal{S} 36'35	5.96340 AU	behind sun begin	14462 May 12 00:19	2° \mathbb{I} 04'00	
morning rise	14456 Dec 13 05:28	26° \mathcal{S} 20'51		behind sun end	14462 May 12 14:51	2° \mathbb{I} 11'46	
	14456 Dec 28 18:22	0° \mathcal{S}		morning rise	14462 May 25 04:44	4° \mathbb{I} 53'49	
retrograde	14457 Apr 22 00:34	16° \mathcal{S} 27'34		retrograde	14462 Sep 23 11:14	21° \mathbb{I} 40'27	
min. Earth dist.	14457 Jun 18 23:41	11° \mathcal{S} 37'23	4.03298 AU	opposition	14462 Nov 23 14:26	16° \mathbb{I} 46'31	-0°22'07
opposition	14457 Jun 20 14:23	11° \mathcal{S} 24'17	0°39'42	min. Earth dist.	14462 Nov 24 21:32	16° \mathbb{I} 36'34	4.45113 AU
direct	14457 Aug 18 04:30	6° \mathcal{S} 27'09		direct	14463 Jan 25 00:36	11° \mathbb{I} 45'50	
evening set	14457 Dec 23 02:34	25° \mathcal{S} 41'24		evening set	14463 May 29 18:42	29° \mathbb{I} 11'46	
					14463 Jun 02 10:56	0° \mathcal{S}	
conjunction	14458 Jan 05 15:11	28° \mathcal{S} 49'09	0°31'36	max. Earth dist.	14463 Jun 09 10:48	1° \mathcal{S} 32'15	6.39169 AU
minimum elong	14458 Jan 05 15:11	28° \mathcal{S} 49'09	0°32'34	conjunction	14463 Jun 11 15:26	2° \mathcal{S} 01'13	-0°22'37
max. Earth dist.	14458 Jan 08 02:07	29° \mathcal{S} 23'17	6.11660 AU	minimum elong	14463 Jun 11 15:26	2° \mathcal{S} 01'13	0°23'39
	14458 Jan 10 17:36	0° \approx		morning rise	14463 Jun 24 11:09	4° \mathcal{S} 50'23	
morning rise	14458 Jan 19 04:30	1° \approx 56'52		retrograde	14463 Oct 25 11:33	22° \mathcal{S} 17'27	
	14458 Mar 23 14:26	15° \approx		opposition	14463 Dec 25 06:40	17° \mathcal{S} 23'40	-0°42'24
retrograde	14458 May 26 01:14	20° \approx 51'03		min. Earth dist.	14463 Dec 26 22:05	17° \mathcal{S} 10'58	4.31688 AU
min. Earth dist.	14458 Jul 23 15:25	16° \approx 00'19	4.20522 AU	direct	14464 Feb 25 01:34	12° \mathcal{S} 23'30	
opposition	14458 Jul 25 03:14	15° \approx 48'20	0°50'40		14464 Jun 26 23:40	0° \mathcal{Q}	
	14458 Jul 31 04:17	15° \mathcal{R} \approx		evening set	14464 Jun 29 10:20	0° \mathcal{Q} 33'07	
direct	14458 Sep 22 21:21	10° \approx 49'26		max. Earth dist.	14464 Jul 09 23:51	2° \mathcal{Q} 57'14	6.23217 AU
	14458 Nov 15 00:57	15° \approx					
evening set	14459 Jan 26 20:42	29° \approx 06'36		conjunction	14464 Jul 12 07:22	3° \mathcal{Q} 28'55	-0°32'46
	14459 Jan 30 21:01	0° \mathcal{H}		minimum elong	14464 Jul 12 07:22	3° \mathcal{Q} 28'55	0°33'42
conjunction	14459 Feb 09 06:44	2° \mathcal{H} 05'33	0°33'42	morning rise	14464 Jul 25 03:48	6° \mathcal{Q} 24'50	
minimum elong	14459 Feb 09 06:45	2° \mathcal{H} 05'33	0°34'17		14464 Sep 02 20:14	15° \mathcal{Q}	
max. Earth dist.	14459 Feb 11 06:03	2° \mathcal{H} 31'52	6.29292 AU	retrograde	14464 Nov 27 23:32	24° \mathcal{Q} 57'06	
morning rise	14459 Feb 22 16:13	5° \mathcal{H} 03'56		opposition	14465 Jan 27 05:58	20° \mathcal{Q} 02'31	-0°51'11
retrograde	14459 Jun 26 13:39	22° \mathcal{H} 48'07		min. Earth dist.	14465 Jan 28 17:58	19° \mathcal{Q} 50'47	4.14268 AU
min. Earth dist.	14459 Aug 25 05:14	17° \mathcal{H} 55'33	4.37077 AU	direct	14465 Mar 28 20:55	15° \mathcal{Q} 03'49	
opposition	14459 Aug 26 04:57	17° \mathcal{H} 47'45	0°44'57		14465 Jul 15 03:43	0° \mathbb{N}	
direct	14459 Oct 26 03:11	12° \mathcal{H} 47'47		evening set	14465 Aug 02 03:19	4° \mathbb{N} 09'32	
	14460 Feb 26 21:58	0° \mathcal{Y}		max. Earth dist.	14465 Aug 13 08:02	6° \mathbb{N} 48'29	6.05760 AU
evening set	14460 Feb 28 08:47	0° \mathcal{Y} 18'40					
conjunction	14460 Mar 12 14:48	3° \mathcal{Y} 10'16	0°25'37	conjunction	14465 Aug 15 03:03	7° \mathbb{N} 14'01	-0°32'51
minimum elong	14460 Mar 12 14:49	3° \mathcal{Y} 10'16	0°25'39	minimum elong	14465 Aug 15 03:03	7° \mathbb{N} 14'01	0°33'21
max. Earth dist.	14460 Mar 13 11:04	3° \mathcal{Y} 21'13	6.43557 AU	morning rise	14465 Aug 28 03:32	10° \mathbb{N} 19'12	
morning rise	14460 Mar 25 19:45	6° \mathcal{Y} 01'07			14465 Dec 27 02:09	0° \mathcal{L}	
retrograde	14460 Jul 25 15:03	22° \mathcal{Y} 56'48		retrograde	14466 Jan 04 02:58	0° \mathcal{L} 06'23	
opposition	14460 Sep 24 14:46	17° \mathcal{Y} 59'17	0°27'12		14466 Jan 12 03:46	30° \mathcal{R} \mathbb{N}	
min. Earth dist.	14460 Sep 24 10:42	18° \mathcal{Y} 00'36	4.48149 AU	opposition	14466 Mar 04 19:14	25° \mathbb{N} 09'57	-0°42'33
direct	14460 Nov 25 13:31	12° \mathcal{Y} 58'46		min. Earth dist.	14466 Mar 05 14:34	25° \mathbb{N} 03'33	3.98275 AU
	14461 Mar 29 21:57	0° \mathcal{S}		direct	14466 May 03 02:28	20° \mathbb{N} 13'13	
evening set	14461 Mar 30 05:26	0° \mathcal{S} 03'58		evening set	14466 Jul 24 17:11	0° \mathcal{L}	
					14466 Sep 07 05:25	10° \mathcal{L} 09'36	
conjunction	14461 Apr 12 07:36	2° \mathcal{S} 51'18	0°10'52	conjunction	14466 Sep 20 10:28	13° \mathcal{L} 22'32	-0°20'52
minimum elong	14461 Apr 12 07:36	2° \mathcal{S} 51'18	0°10'24	minimum elong	14466 Sep 20 10:29	13° \mathcal{L} 22'32	0°20'43
behind sun begin	14461 Apr 12 01:17	2° \mathcal{S} 47'57		max. Earth dist.	14466 Sep 19 23:39	13° \mathcal{L} 15'56	5.92807 AU
				morning rise	14466 Oct 03 16:51	16° \mathcal{L} 36'26	

	14466 Dec 03 07:12	0°♌			14473 Mar 13 16:42	0°♏	
retrograde	14467 Feb 11 23:29	7°♌18'36		evening set	14473 Apr 03 11:16	4°♏18'33	
opposition	14467 Apr 12 05:13	2°♌19'31 -0°16'22					
min. Earth dist.	14467 Apr 12 00:09	2°♌21'13 3.89833 AU		conjunction	14473 Apr 16 12:49	7°♏05'30 0°08'29	
	14467 Apr 30 06:20	30°♏♎		minimum elong	14473 Apr 16 12:49	7°♏05'30 0°07'57	
direct	14467 Jun 09 13:01	27°♎24'12		behind sun begin	14473 Apr 16 05:38	7°♏01'41	
	14467 Jul 19 06:44	0°♌		behind sun end	14473 Apr 16 20:00	7°♏09'18	
	14467 Oct 03 22:59	15°♌		max. Earth dist.	14473 Apr 16 01:12	6°♏59'19 6.51130 AU	
evening set	14467 Oct 15 02:54	17°♌41'44		morning rise	14473 Apr 29 12:49	9°♏51'40	
					14473 May 24 10:07	15°♏	
conjunction	14467 Oct 28 13:11	20°♌58'44 -0°00'06		retrograde	14473 Aug 28 08:55	26°♏26'47	
minimum elong	14467 Oct 28 13:11	20°♌58'44 0°00'38		desc. node	14473 Oct 20 00:43	22°♏36'51	
behind sun begin	14467 Oct 28 04:50	20°♌53'39		opposition	14473 Oct 28 13:36	21°♏31'47 -0°00'35	
behind sun end	14467 Oct 28 21:32	21°♌03'49		min. Earth dist.	14473 Oct 29 06:55	21°♏26'14 4.50985 AU	
max. Earth dist.	14467 Oct 29 15:46	21°♌15'00 5.89761 AU		direct	14473 Dec 30 01:55	16°♏31'06	
asc. node	14467 Oct 30 20:03	21°♌32'19			14474 Apr 16 11:08	0°♐	
morning rise	14467 Nov 11 01:23	24°♌16'41		evening set	14474 May 03 13:27	3°♐35'16	
	14467 Dec 05 03:43	0°♏		max. Earth dist.	14474 May 14 22:40	6°♐01'51 6.48587 AU	
retrograde	14468 Mar 21 11:12	15°♏03'17					
opposition	14468 May 19 17:38	10°♏01'20 0°17'00		conjunction	14474 May 16 11:50	6°♐21'51 -0°09'03	
min. Earth dist.	14468 May 18 13:00	10°♏11'02 3.92637 AU		minimum elong	14474 May 16 11:50	6°♐21'51 0°09'58	
direct	14468 Jul 16 19:28	5°♏05'36		behind sun begin	14474 May 16 05:21	6°♐18'23	
evening set	14468 Nov 21 07:00	25°♏02'45		behind sun end	14474 May 16 18:18	6°♐25'19	
				morning rise	14474 May 29 08:42	9°♐07'51	
conjunction	14468 Dec 04 20:02	28°♏17'03 0°20'31		retrograde	14474 Sep 27 17:43	25°♐56'59	
minimum elong	14468 Dec 04 20:02	28°♏17'02 0°21'32		opposition	14474 Nov 27 20:53	21°♐03'04 -0°25'20	
max. Earth dist.	14468 Dec 07 01:15	28°♏48'53 5.98038 AU		min. Earth dist.	14474 Nov 29 04:52	20°♐52'50 4.44131 AU	
	14468 Dec 12 00:15	0°♏		direct	14475 Jan 29 05:43	16°♐02'24	
morning rise	14468 Dec 18 10:35	1°♏31'49			14475 May 17 15:59	0°♑	
retrograde	14469 Apr 26 21:36	21°♏29'48		evening set	14475 Jun 03 00:46	3°♑31'28	
min. Earth dist.	14469 Jun 23 22:20	16°♏39'22 4.05384 AU		max. Earth dist.	14475 Jun 13 17:05	5°♑52'28 6.37807 AU	
opposition	14469 Jun 25 12:33	16°♏26'26 0°42'16					
direct	14469 Aug 23 07:06	11°♏28'59		conjunction	14475 Jun 15 21:27	6°♑21'23 -0°24'26	
	14469 Dec 25 10:30	0°♐		minimum elong	14475 Jun 15 21:26	6°♑21'23 0°25'28	
evening set	14469 Dec 28 01:04	0°♐35'47		morning rise	14475 Jun 28 16:51	9°♑10'59	
				retrograde	14475 Oct 29 23:34	26°♑43'43	
conjunction	14470 Jan 10 13:36	3°♐42'26 0°32'34		opposition	14475 Dec 29 17:58	21°♑49'53 -0°44'21	
minimum elong	14470 Jan 10 13:36	3°♐42'26 0°33'29		min. Earth dist.	14475 Dec 31 09:53	21°♑37'02 4.30015 AU	
max. Earth dist.	14470 Jan 13 01:09	4°♐16'44 6.13945 AU		direct	14476 Feb 29 10:19	16°♑49'53	
morning rise	14470 Jan 24 02:25	6°♐48'54			14476 Jun 10 22:26	0°♒	
	14470 Mar 02 16:33	15°♐		evening set	14476 Jul 03 20:22	5°♒04'38	
retrograde	14470 May 30 13:28	25°♐33'18		max. Earth dist.	14476 Jul 14 09:10	7°♒29'02 6.21341 AU	
min. Earth dist.	14470 Jul 28 05:59	20°♐42'34 4.22798 AU					
opposition	14470 Jul 29 17:06	20°♐30'51 0°50'46		conjunction	14476 Jul 16 17:21	8°♒01'14 -0°33'24	
direct	14470 Sep 27 14:18	15°♐31'47		minimum elong	14476 Jul 16 17:21	8°♒01'14 0°34'17	
	14471 Jan 14 11:03	0°♏		morning rise	14476 Jul 29 14:12	10°♒58'03	
evening set	14471 Jan 31 12:13	3°♏42'16			14476 Aug 16 12:50	15°♒	
				retrograde	14476 Dec 02 19:03	29°♒38'36	
conjunction	14471 Feb 13 21:36	6°♏40'06 0°33'05		opposition	14477 Jan 31 23:54	24°♒43'46 -0°51'03	
minimum elong	14471 Feb 13 21:37	6°♏40'07 0°33'36		min. Earth dist.	14477 Feb 02 10:41	24°♒32'24 4.12303 AU	
max. Earth dist.	14471 Feb 15 16:28	7°♏03'51 6.31383 AU		direct	14477 Apr 02 11:17	19°♒45'13	
morning rise	14471 Feb 27 06:39	9°♏37'25			14477 Jun 27 20:28	0°♓	
retrograde	14471 Jun 30 20:56	27°♏13'59		evening set	14477 Aug 06 19:22	8°♓57'13	
opposition	14471 Aug 30 12:38	22°♏13'59 0°43'02		max. Earth dist.	14477 Aug 18 04:24	11°♓39'20 6.03891 AU	
min. Earth dist.	14471 Aug 29 16:00	22°♏20'46 4.38851 AU					
direct	14471 Oct 30 14:54	17°♏13'53		conjunction	14477 Aug 19 19:48	12°♓02'48 -0°31'54	
	14472 Feb 10 11:08	0°♑		minimum elong	14477 Aug 19 19:48	12°♓02'49 0°32'20	
evening set	14472 Mar 03 18:10	4°♑40'24		morning rise	14477 Sep 01 20:46	15°♓09'05	
					14477 Nov 11 21:50	0°♎	
conjunction	14472 Mar 16 23:49	7°♑31'18 0°23'50		retrograde	14478 Jan 09 05:38	5°♎04'43	
minimum elong	14472 Mar 16 23:50	7°♑31'19 0°23'48		opposition	14478 Mar 09 19:36	0°♎08'03 -0°39'55	
max. Earth dist.	14472 Mar 17 17:53	7°♑41'02 6.44921 AU			14478 Mar 10 19:52	30°♏♐	
morning rise	14472 Mar 30 04:03	10°♑21'24		min. Earth dist.	14478 Mar 10 13:19	0°♎02'10 3.96676 AU	
retrograde	14472 Jul 29 17:40	27°♑12'48		direct	14478 May 07 23:05	25°♐11'33	
opposition	14472 Sep 28 19:12	22°♑15'38 0°24'02			14478 Jul 02 13:53	0°♎	
min. Earth dist.	14472 Sep 28 16:29	22°♑16'31 4.49061 AU		evening set	14478 Sep 12 04:20	15°♎13'01	
direct	14472 Nov 29 19:07	17°♑15'09					

conjunction	14478 Sep 25 10:03	18°♌26'52	-0°18'26	max. Earth dist.	14484 Mar 21 22:31	12°♍01'58	6.46259 AU
minimum elong	14478 Sep 25 10:03	18°♌26'52	0°18'12	morning rise	14484 Apr 03 12:55	14°♍44'10	
max. Earth dist.	14478 Sep 25 01:42	18°♌21'46	5.91629 AU		14484 Jul 02 03:59	0°♌	
morning rise	14478 Oct 08 17:28	21°♌41'47		retrograde	14484 Aug 02 22:48	1°♌31'16	
	14478 Nov 13 06:12	0°♌			14484 Sep 03 14:04	30°♌♍	
retrograde	14479 Feb 17 03:45	12°♌28'48		opposition	14484 Oct 03 00:24	26°♍34'21	0°20'43
opposition	14479 Apr 17 09:06	7°♌29'23	-0°11'59	min. Earth dist.	14484 Oct 03 00:55	26°♍34'12	4.49937 AU
min. Earth dist.	14479 Apr 17 00:18	7°♌32'20	3.89224 AU	direct	14484 Dec 04 03:26	21°♍33'45	
direct	14479 Jun 14 13:45	2°♌34'06			14485 Feb 23 15:14	0°♌	
asc. node	14479 Sep 09 08:32	13°♌24'02		evening set	14485 Apr 07 17:29	8°♌35'18	
	14479 Sep 16 16:24	15°♌					
evening set	14479 Oct 20 06:06	22°♌53'05		conjunction	14485 Apr 20 18:37	11°♌21'55	0°06'02
				minimum elong	14485 Apr 20 18:38	11°♌21'55	0°05'26
conjunction	14479 Nov 02 17:02	26°♌10'23	0°02'56	behind sun begin	14485 Apr 20 10:53	11°♌17'48	
minimum elong	14479 Nov 02 17:03	26°♌10'23	0°03'45	behind sun end	14485 Apr 21 02:22	11°♌26'01	
behind sun begin	14479 Nov 02 08:47	26°♌05'21		max. Earth dist.	14485 Apr 20 04:04	11°♌14'10	6.51456 AU
behind sun end	14479 Nov 03 01:18	26°♌15'25		morning rise	14485 May 03 17:59	14°♌07'45	
max. Earth dist.	14479 Nov 03 23:12	26°♌28'51	5.89788 AU		14485 May 07 20:53	15°♌	
morning rise	14479 Nov 16 05:52	29°♌28'36			14485 Aug 11 00:49	0°♌	
	14479 Nov 18 09:41	0°♌		desc. node	14485 Aug 31 21:40	0°♌42'17	
retrograde	14480 Mar 26 13:57	20°♌13'50		retrograde	14485 Sep 01 12:30	0°♌42'19	
opposition	14480 May 24 20:15	15°♌11'37	0°21'11		14485 Sep 22 23:47	30°♌♌	
min. Earth dist.	14480 May 23 14:26	15°♌21'44	3.93281 AU	opposition	14485 Nov 01 18:23	25°♌47'28	-0°04'13
direct	14480 Jul 21 23:13	10°♌15'43		min. Earth dist.	14485 Nov 02 13:07	25°♌41'28	4.50729 AU
	14480 Nov 25 17:12	0°♌		direct	14486 Jan 03 06:00	20°♌46'44	
evening set	14480 Nov 26 09:55	0°♌09'55			14486 Mar 29 23:17	0°♌	
				evening set	14486 May 07 18:54	7°♌52'16	
conjunction	14480 Dec 09 23:21	3°♌23'47	0°22'46	max. Earth dist.	14486 May 19 01:32	10°♌17'45	6.47738 AU
minimum elong	14480 Dec 09 23:21	3°♌23'47	0°23'49				
max. Earth dist.	14480 Dec 12 08:04	3°♌57'37	5.99240 AU	conjunction	14486 May 20 16:53	10°♌39'00	-0°11'27
morning rise	14480 Dec 23 13:54	6°♌37'59		minimum elong	14486 May 20 16:53	10°♌39'00	0°12'23
retrograde	14481 May 01 18:31	26°♌29'16		behind sun begin	14486 May 20 11:38	10°♌36'11	
min. Earth dist.	14481 Jun 28 18:26	21°♌39'08	4.07007 AU	behind sun end	14486 May 20 22:08	10°♌41'49	
opposition	14481 Jun 30 09:29	21°♌25'57	0°44'29	morning rise	14486 Jun 02 13:22	13°♌25'10	
direct	14481 Aug 28 06:03	16°♌28'19			14486 Sep 18 04:08	0°♌	
	14481 Dec 08 09:11	0°♌		retrograde	14486 Oct 02 03:25	0°♌17'59	
evening set	14482 Jan 01 23:40	5°♌29'35			14486 Oct 16 00:44	30°♌♌	
				opposition	14486 Dec 02 05:06	25°♌24'09	-0°28'29
conjunction	14482 Jan 15 11:51	8°♌35'17	0°33'17	min. Earth dist.	14486 Dec 03 15:38	25°♌13'05	4.42713 AU
minimum elong	14482 Jan 15 11:51	8°♌35'17	0°34'09	direct	14487 Feb 02 13:24	20°♌23'29	
max. Earth dist.	14482 Jan 17 21:40	9°♌08'26	6.15832 AU		14487 Apr 30 05:45	0°♌	
morning rise	14482 Jan 29 00:31	11°♌40'47		evening set	14487 Jun 07 08:50	7°♌57'11	
	14482 Feb 12 19:49	15°♌		max. Earth dist.	14487 Jun 17 22:00	10°♌17'05	6.35901 AU
	14482 May 21 23:02	0°♌					
retrograde	14482 Jun 04 02:06	0°♌16'48		conjunction	14487 Jun 20 05:17	10°♌47'45	-0°26'10
	14482 Jun 17 03:50	30°♌		minimum elong	14487 Jun 20 05:16	10°♌47'45	0°27'13
min. Earth dist.	14482 Aug 01 21:17	25°♌25'53	4.24770 AU	morning rise	14487 Jul 03 00:49	13°♌38'06	
opposition	14482 Aug 03 07:15	25°♌14'33	0°50'31		14487 Oct 05 09:22	0°♌	
direct	14482 Oct 02 07:47	20°♌15'16		retrograde	14487 Nov 03 15:28	1°♌18'37	
	14482 Dec 27 08:27	0°♌			14487 Dec 02 22:03	30°♌♌	
evening set	14483 Feb 05 04:06	8°♌19'56		opposition	14488 Jan 03 08:32	26°♌24'38	-0°46'09
				min. Earth dist.	14488 Jan 05 00:16	26°♌11'48	4.27731 AU
conjunction	14483 Feb 18 13:14	11°♌16'51	0°32'15	direct	14488 Mar 04 21:04	21°♌24'41	
minimum elong	14483 Feb 18 13:14	11°♌16'51	0°32'41		14488 May 23 14:01	0°♌	
max. Earth dist.	14483 Feb 20 07:07	11°♌39'58	6.33298 AU	evening set	14488 Jul 08 10:19	9°♌46'51	
morning rise	14483 Mar 03 21:31	14°♌13'06		max. Earth dist.	14488 Jul 19 01:32	12°♌13'21	6.18862 AU
	14483 Jun 01 17:20	0°♍					
retrograde	14483 Jul 05 03:57	1°♍42'28		conjunction	14488 Jul 21 07:44	12°♌44'36	-0°33'53
	14483 Aug 07 10:35	30°♌♌		minimum elong	14488 Jul 21 07:44	12°♌44'36	0°34'43
opposition	14483 Sep 03 21:10	26°♌42'49	0°40'50		14488 Jul 31 02:38	15°♌	
min. Earth dist.	14483 Sep 03 01:52	26°♌49'09	4.40548 AU	morning rise	14488 Aug 03 04:49	15°♌42'36	
direct	14483 Nov 04 02:29	21°♌42'40			14488 Oct 13 05:37	0°♌	
	14484 Jan 22 23:04	0°♍		retrograde	14488 Dec 07 21:02	4°♌33'35	
evening set	14484 Mar 08 04:18	9°♍04'43			14489 Feb 03 05:30	30°♌♌	
				opposition	14489 Feb 05 23:07	29°♌38'34	-0°50'35
conjunction	14484 Mar 21 09:12	11°♍54'49	0°21'53	min. Earth dist.	14489 Feb 07 09:12	29°♌27'25	4.09822 AU
minimum elong	14484 Mar 21 09:12	11°♍54'49	0°21'47	direct	14489 Apr 07 06:20	24°♌40'16	

	14489 Jun 06 01:15	0°♎			14494 Aug 07 11:03	30°♏	
evening set	14489 Aug 11 17:33	14°♎00'22	direct		14494 Oct 07 02:47	24°♏57'11	
max. Earth dist.	14489 Aug 23 04:56	16°♎44'45 6.01625 AU			14494 Dec 05 14:26	0°♏	
			evening set		14495 Feb 09 19:00	12°♏53'51	
conjunction	14489 Aug 24 18:32	17°♎07'16 -0°30'41					
minimum elong	14489 Aug 24 18:33	17°♎07'17 0°31'02	conjunction	14495 Feb 23 03:22	15°♏49'29 0°31'16		
morning rise	14489 Sep 06 20:31	20°♎14'59	minimum elong	14495 Feb 23 03:23	15°♏49'30 0°31'37		
	14489 Oct 20 00:36	0°♏	max. Earth dist.	14495 Feb 24 17:17	16°♏10'18 6.35725 AU		
retrograde	14490 Jan 14 13:44	10°♏20'27	morning rise	14495 Mar 08 11:06	18°♏44'30		
opposition	14490 Mar 15 02:52	5°♏23'25 -0°36'49		14495 May 04 07:44	0°♏		
min. Earth dist.	14490 Mar 15 16:33	5°♏18'52 3.94865 AU	retrograde	14495 Jul 09 08:24	6°♏05'25		
direct	14490 May 13 01:45	0°♏27'07	min. Earth dist.	14495 Sep 07 11:12	1°♏11'34 4.42579 AU		
evening set	14490 Sep 17 10:16	20°♏34'09	opposition	14495 Sep 08 03:55	1°♏06'06 0°38'29		
				14495 Sep 16 15:49	30°♏		
conjunction	14490 Sep 30 16:51	23°♏48'58 -0°15'43	direct	14495 Nov 08 12:57	26°♏05'49		
minimum elong	14490 Sep 30 16:52	23°♏48'59 0°15'24		14495 Dec 31 06:00	0°♏		
behind sun begin	14490 Sep 30 14:23	23°♏47'28	evening set	14496 Mar 12 12:03	13°♏22'42		
behind sun end	14490 Sep 30 19:21	23°♏50'30					
max. Earth dist.	14490 Sep 30 14:28	23°♏47'31 5.90472 AU	conjunction	14496 Mar 25 16:29	16°♏12'01 0°19'54		
morning rise	14490 Oct 14 01:06	27°♏04'51	minimum elong	14496 Mar 25 16:30	16°♏12'01 0°19'44		
	14490 Oct 26 03:30	0°♏	max. Earth dist.	14496 Mar 26 02:56	16°♏17'37 6.47755 AU		
	14491 Jan 10 13:45	15°♏	morning rise	14496 Apr 07 19:22	19°♏00'31		
retrograde	14491 Feb 22 15:38	17°♏56'10		14496 Jun 03 16:41	0°♏		
	14491 Apr 07 01:04	15°♏	retrograde	14496 Aug 07 00:17	5°♏43'17		
opposition	14491 Apr 22 19:54	12°♏56'17 -0°07'13	opposition	14496 Oct 07 03:33	0°♏46'45 0°17'23		
min. Earth dist.	14491 Apr 22 08:25	13°♏00'10 3.88865 AU	min. Earth dist.	14496 Oct 07 06:25	0°♏45'49 4.50805 AU		
direct	14491 Jun 19 23:36	8°♏01'01		14496 Oct 13 05:14	30°♏		
asc. node	14491 Jul 17 00:22	9°♏15'17	direct	14496 Dec 08 08:20	25°♏46'09		
	14491 Aug 26 12:55	15°♏		14497 Feb 01 22:27	0°♏		
evening set	14491 Oct 25 15:53	28°♏19'55	evening set	14497 Apr 11 21:30	12°♏46'08		
	14491 Nov 01 12:13	0°♏		14497 Apr 22 09:10	15°♏		
conjunction	14491 Nov 08 03:32	1°♏37'18 0°06'04	conjunction	14497 Apr 24 21:57	15°♏32'27 0°03'37		
minimum elong	14491 Nov 08 03:31	1°♏37'17 0°06'55	minimum elong	14497 Apr 24 21:58	15°♏32'28 0°02'57		
behind sun begin	14491 Nov 07 19:46	1°♏32'35	behind sun begin	14497 Apr 24 13:58	15°♏28'13		
behind sun end	14491 Nov 08 11:16	1°♏42'00	behind sun end	14497 Apr 25 05:58	15°♏36'43		
max. Earth dist.	14491 Nov 09 15:40	1°♏59'23 5.90275 AU	max. Earth dist.	14497 Apr 24 02:06	15°♏21'52 6.51622 AU		
morning rise	14491 Nov 21 16:49	4°♏55'29	morning rise	14497 May 07 20:57	18°♏18'04		
retrograde	14492 Mar 31 21:15	25°♏36'29		14497 Jul 08 14:18	0°♏		
min. Earth dist.	14492 May 28 19:02	20°♏45'02 3.94582 AU	desc. node	14497 Jul 14 10:29	0°♏51'13		
opposition	14492 May 30 03:32	20°♏34'01 0°25'23	retrograde	14497 Sep 05 17:31	4°♏53'05		
direct	14492 Jul 27 07:23	15°♏37'58	opposition	14497 Nov 05 22:00	29°♏58'29 -0°07'45		
	14492 Nov 08 05:33	0°♏		14497 Nov 05 17:16	30°♏		
evening set	14492 Dec 01 17:11	5°♏26'20	min. Earth dist.	14497 Nov 06 20:27	29°♏51'17 4.50176 AU		
			direct	14498 Jan 07 10:55	24°♏57'42		
conjunction	14492 Dec 15 06:30	8°♏39'15 0°24'57		14498 Mar 09 11:11	0°♏		
minimum elong	14492 Dec 15 06:29	8°♏39'15 0°26'00	evening set	14498 May 11 22:56	12°♏05'43		
max. Earth dist.	14492 Dec 17 16:17	9°♏13'33 6.01206 AU	max. Earth dist.	14498 May 23 01:49	14°♏29'37 6.46490 AU		
morning rise	14492 Dec 28 21:09	11°♏52'29					
	14493 Apr 05 09:52	0°♏	conjunction	14498 May 24 20:42	14°♏52'49 -0°13'45		
retrograde	14493 May 06 14:42	1°♏33'44	minimum elong	14498 May 24 20:42	14°♏52'49 0°14'42		
	14493 Jun 06 16:29	30°♏	behind sun begin	14498 May 24 17:22	14°♏51'01		
min. Earth dist.	14493 Jul 03 16:56	26°♏43'46 4.09428 AU	behind sun end	14498 May 25 00:01	14°♏54'36		
opposition	14493 Jul 05 08:36	26°♏30'22 0°46'25	morning rise	14498 Jun 06 16:54	17°♏39'22		
direct	14493 Sep 02 08:35	21°♏32'27		14498 Aug 10 08:32	0°♏		
	14493 Nov 18 23:54	0°♏	retrograde	14498 Oct 06 11:26	4°♏37'26		
evening set	14494 Jan 06 23:07	10°♏25'08		14498 Dec 04 09:46	30°♏		
			opposition	14498 Dec 06 12:47	29°♏43'39 -0°31'29		
conjunction	14494 Jan 20 11:02	13°♏29'30 0°33'49	min. Earth dist.	14498 Dec 08 00:12	29°♏32'18 4.40841 AU		
minimum elong	14494 Jan 20 11:02	13°♏29'30 0°34'39	direct	14499 Feb 06 17:47	24°♏43'03		
max. Earth dist.	14494 Jan 22 20:43	14°♏02'23 6.18499 AU		14499 Apr 09 15:45	0°♏		
	14494 Jan 27 01:54	15°♏	evening set	14499 Jun 11 16:56	12°♏23'08		
morning rise	14494 Feb 02 22:59	16°♏33'33	max. Earth dist.	14499 Jun 22 05:48	14°♏43'34 6.33530 AU		
	14494 Apr 11 05:40	0°♏					
retrograde	14494 Jun 08 14:39	4°♏58'34	conjunction	14499 Jun 24 13:27	15°♏14'37 -0°27'45		
opposition	14494 Aug 07 21:18	29°♏56'36 0°49'58	minimum elong	14499 Jun 24 13:26	15°♏14'37 0°28'47		
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


























































































































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retrograde	14499 Nov 08 10:34	5°♌56'08	minimum elong	14504 Dec 21 13:05	13°♊53'40	0°27'56
opposition	14500 Jan 08 00:29	1°♌02'08 -0°47'43	max. Earth dist.	14504 Dec 24 00:53	14°♊28'58	6.03618 AU
min. Earth dist.	14500 Jan 09 17:17	0°♌48'57 4.25001 AU	morning rise	14505 Jan 04 03:21	17°♊05'36	
	14500 Jan 16 01:56	30°♋♌		14505 Mar 06 02:16	0°♋	
direct	14500 Mar 10 09:36	26°♌02'25	retrograde	14505 May 12 11:00	6°♋35'22	
	14500 May 01 08:04	0°♌	min. Earth dist.	14505 Jul 09 15:24	1°♋45'08	4.12143 AU
evening set	14500 Jul 14 01:55	14°♌33'39	opposition	14505 Jul 11 06:14	1°♋32'03	0°47'58
	14500 Jul 15 23:42	15°♌		14505 Jul 22 20:30	30°♋♌	
max. Earth dist.	14500 Jul 24 17:15	17°♌01'13 6.15993 AU	direct	14505 Sep 08 10:50	26°♊33'52	
				14505 Oct 25 19:45	0°♋	
conjunction	14500 Jul 26 23:39	17°♌32'47 -0°34'09		14506 Jan 11 14:20	15°♋	
minimum elong	14500 Jul 26 23:40	17°♌32'47 0°34'56	evening set	14506 Jan 12 21:04	15°♋17'18	
morning rise	14500 Aug 08 21:28	20°♌32'17				
	14500 Sep 21 04:45	0°♎	conjunction	14506 Jan 26 08:28	18°♋20'15	0°34'05
retrograde	14500 Dec 14 00:09	9°♎35'31	minimum elong	14506 Jan 26 08:28	18°♋20'15	0°34'52
opposition	14501 Feb 12 01:06	4°♎40'17 -0°49'48	max. Earth dist.	14506 Jan 28 16:18	18°♋51'52	6.21262 AU
min. Earth dist.	14501 Feb 13 08:10	4°♎30'05 4.07056 AU	morning rise	14506 Feb 08 19:56	21°♋22'51	
	14501 Mar 30 17:20	30°♋♌		14506 Mar 21 08:00	0°♎	
direct	14501 Apr 13 02:28	29°♌42'18	retrograde	14506 Jun 13 23:13	9°♎36'55	
	14501 Apr 26 12:48	0°♎	min. Earth dist.	14506 Aug 12 02:19	4°♎45'33	4.30012 AU
evening set	14501 Aug 17 18:44	19°♎11'40	opposition	14506 Aug 13 09:26	4°♎35'14	0°49'06
				14506 Sep 26 20:27	30°♎♋	
conjunction	14501 Aug 30 20:33	22°♎20'02 -0°29'14	direct	14506 Oct 12 18:43	29°♋35'37	
minimum elong	14501 Aug 30 20:34	22°♎20'03 0°29'28		14506 Oct 28 21:09	0°♎	
max. Earth dist.	14501 Aug 29 12:16	22°♎00'36 5.99243 AU	evening set	14507 Feb 15 08:16	17°♎24'56	
morning rise	14501 Sep 12 23:20	25°♎29'15				
	14501 Oct 02 03:01	0°♏	conjunction	14507 Feb 28 16:08	20°♎19'27	0°30'05
retrograde	14502 Jan 21 03:45	15°♏45'00	minimum elong	14507 Feb 28 16:09	20°♎19'27	0°30'21
opposition	14502 Mar 21 13:29	10°♏47'38 -0°33'22	max. Earth dist.	14507 Mar 02 02:17	20°♎38'07	6.37948 AU
min. Earth dist.	14502 Mar 22 00:18	10°♏44'02 3.93126 AU	morning rise	14507 Mar 13 23:04	23°♎13'16	
direct	14502 May 19 09:25	5°♏51'37		14507 Apr 15 11:43	0°♎	
evening set	14502 Sep 23 19:32	26°♏03'45	retrograde	14507 Jul 14 13:25	10°♎26'46	
			opposition	14507 Sep 13 10:03	5°♎27'52	0°35'55
conjunction	14502 Oct 07 03:03	29°♏19'27 -0°12'50	min. Earth dist.	14507 Sep 12 20:30	5°♎32'17	4.44293 AU
minimum elong	14502 Oct 07 03:03	29°♏19'27 0°12'25	direct	14507 Nov 13 23:25	0°♎27'31	
behind sun begin	14502 Oct 06 21:36	29°♏16'07	evening set	14508 Mar 17 19:24	17°♎40'18	
behind sun end	14502 Oct 07 08:30	29°♏22'47				
max. Earth dist.	14502 Oct 07 07:10	29°♏21'58 5.89575 AU	conjunction	14508 Mar 30 23:09	20°♎28'58	0°17'47
	14502 Oct 09 21:06	0°♎	minimum elong	14508 Mar 30 23:09	20°♎28'58	0°17'31
morning rise	14502 Oct 20 12:12	2°♎36'10	max. Earth dist.	14508 Mar 31 03:54	20°♎31'30	6.48837 AU
	14502 Dec 14 11:49	15°♎	morning rise	14508 Apr 13 01:33	23°♎16'51	
retrograde	14503 Mar 01 04:47	23°♎30'00		14508 May 15 23:29	0°♎	
opposition	14503 Apr 29 08:44	18°♎29'42 -0°02'21	retrograde	14508 Aug 12 03:34	9°♎56'43	
min. Earth dist.	14503 Apr 28 16:53	18°♎35'03 3.88948 AU	opposition	14508 Oct 12 07:13	5°♎00'27	0°13'56
asc. node	14503 May 26 11:11	15°♎10'31	min. Earth dist.	14508 Oct 12 13:20	4°♎58'28	4.51217 AU
	14503 May 28 06:59	15°♎♎		14508 Dec 11 21:18	30°♎♎	
direct	14503 Jun 26 09:55	13°♎34'29	direct	14508 Dec 13 14:10	29°♎59'44	
	14503 Jul 25 12:37	15°♎		14508 Dec 15 07:04	0°♎	
	14503 Oct 16 00:49	0°♎		14509 Apr 07 14:57	15°♎	
evening set	14503 Nov 01 03:24	3°♎51'16	evening set	14509 Apr 17 02:23	16°♎59'32	
			max. Earth dist.	14509 Apr 29 04:02	19°♎33'47	6.51338 AU
conjunction	14503 Nov 14 15:20	7°♎08'19 0°09'09				
minimum elong	14503 Nov 14 15:20	7°♎08'19 0°10'03	conjunction	14509 Apr 30 02:37	19°♎45'50	0°01'05
behind sun begin	14503 Nov 14 08:37	7°♎04'15	minimum elong	14509 Apr 30 02:35	19°♎45'49	0°00'21
behind sun end	14503 Nov 14 22:02	7°♎12'23	behind sun begin	14509 Apr 29 18:35	19°♎41'34	
max. Earth dist.	14503 Nov 16 07:05	7°♎32'31 5.91297 AU	behind sun end	14509 Apr 30 10:35	19°♎50'04	
morning rise	14503 Nov 28 05:12	10°♎26'11	morning rise	14509 May 13 00:57	22°♎31'20	
	14504 Mar 13 08:24	0°♎	desc. node	14509 May 24 19:10	24°♎59'38	
retrograde	14504 Apr 07 02:18	1°♎00'31		14509 Jun 18 23:26	0°♎	
	14504 May 01 18:09	30°♎♎	retrograde	14509 Sep 10 21:53	9°♎08'04	
min. Earth dist.	14504 Jun 03 23:54	26°♎09'34 3.96399 AU	opposition	14509 Nov 11 03:09	4°♎13'37 -0°11'20	
opposition	14504 Jun 05 10:54	25°♎57'42 0°29'20	min. Earth dist.	14509 Nov 12 03:25	4°♎05'51	4.49221 AU
direct	14504 Aug 02 16:57	21°♎01'20		14509 Dec 20 16:57	30°♎♎	
	14504 Oct 20 13:26	0°♎	direct	14510 Jan 12 15:10	29°♎12'50	
evening set	14504 Dec 07 23:45	10°♎41'56		14510 Feb 04 17:37	0°♎	
			evening set	14510 May 17 05:12	16°♎24'27	

max. Earth dist.	14510 May 28 04:36	18° Π 47'01	6.44912 AU	behind sun end	14515 Nov 20 05:26	12° X 33'44	
				max. Earth dist.	14515 Nov 21 21:19	12° X 57'56	5.92922 AU
conjunction	14510 May 30 02:36	19° Π 12'01	-0°16'01	morning rise	14515 Dec 03 14:21	15° X 47'49	
minimum elong	14510 May 30 02:35	19° Π 12'00	0°17'01		14516 Feb 07 11:58	0° Z	
morning rise	14510 Jun 11 22:42	21° Π 59'06		retrograde	14516 Apr 12 04:28	6° Z 13'17	
	14510 Jul 20 23:03	0° E		min. Earth dist.	14516 Jun 09 02:19	1° Z 22'21	3.98658 AU
retrograde	14510 Oct 12 00:43	9° E 03'28		opposition	14516 Jun 10 13:52	1° Z 10'17	0°32'52
opposition	14510 Dec 11 23:41	4° E 09'43	-0°34'23		14516 Jun 19 07:26	30° R X	
min. Earth dist.	14510 Dec 13 13:24	3° E 57'37	4.38721 AU	direct	14516 Aug 07 23:11	26° X 13'43	
	14511 Jan 19 11:15	30° R Π		evening set	14516 Sep 25 21:36	0° Z	
direct	14511 Feb 12 03:25	29° Π 09'10			14516 Dec 13 01:52	15° Z 45'26	
	14511 Mar 07 20:14	0° E		conjunction	14516 Dec 26 15:00	18° Z 55'52	0°28'34
evening set	14511 Jun 17 03:56	16° E 56'11		minimum elong	14516 Dec 26 14:59	18° Z 55'52	0°29'34
max. Earth dist.	14511 Jun 27 15:28	19° E 16'42	6.31020 AU	max. Earth dist.	14516 Dec 29 03:21	19° Z 31'15	6.06260 AU
				morning rise	14517 Jan 09 05:01	22° Z 06'25	
conjunction	14511 Jun 30 00:33	19° E 48'42	-0°29'13		14517 Feb 13 15:22	0° \approx	
minimum elong	14511 Jun 30 00:32	19° E 48'42	0°30'14	retrograde	14517 May 17 00:15	11° \approx 24'25	
morning rise	14511 Jul 12 20:17	22° E 41'07		min. Earth dist.	14517 Jul 14 08:02	6° \approx 34'21	4.14907 AU
	14511 Aug 15 22:08	0° Ω		opposition	14517 Jul 15 22:54	6° \approx 21'18	0°49'05
retrograde	14511 Nov 14 06:44	10° Ω 41'24		direct	14517 Sep 13 06:43	1° \approx 22'56	
opposition	14512 Jan 13 19:46	5° Ω 47'17	-0°49'01		14517 Dec 26 00:23	15° \approx	
min. Earth dist.	14512 Jan 15 11:00	5° Ω 34'35	4.22290 AU	evening set	14518 Jan 17 14:09	19° \approx 57'32	
direct	14512 Mar 14 23:43	0° Ω 47'49					
	14512 Jun 29 04:16	15° Ω		conjunction	14518 Jan 31 01:04	22° \approx 59'08	0°34'08
evening set	14512 Jul 18 20:54	19° Ω 27'57		minimum elong	14518 Jan 31 01:04	22° \approx 59'08	0°34'51
max. Earth dist.	14512 Jul 29 15:51	21° Ω 58'31	6.13321 AU	max. Earth dist.	14518 Feb 02 05:12	23° \approx 28'30	6.23914 AU
				morning rise	14518 Feb 13 11:56	26° \approx 00'21	
conjunction	14512 Jul 31 19:05	22° Ω 28'26	-0°34'11		14518 Mar 03 16:56	0° X	
minimum elong	14512 Jul 31 19:06	22° Ω 28'26	0°34'55	retrograde	14518 Jun 18 06:52	14° X 04'38	
morning rise	14512 Aug 13 17:24	25° Ω 29'20		opposition	14518 Aug 17 17:45	9° X 03'24	0°48'00
	14512 Sep 02 11:33	0° Π		min. Earth dist.	14518 Aug 16 13:56	9° X 12'36	4.32338 AU
retrograde	14512 Dec 19 08:35	14° Π 43'54		direct	14518 Oct 17 08:17	4° X 03'42	
opposition	14513 Feb 17 06:08	9° Π 48'29	-0°48'36	evening set	14519 Feb 19 17:45	21° X 46'53	
min. Earth dist.	14513 Feb 18 11:23	9° Π 38'52	4.04676 AU				
direct	14513 Apr 18 03:58	4° Π 50'52		conjunction	14519 Mar 05 01:07	24° X 40'28	0°28'47
evening set	14513 Aug 22 22:16	24° Π 27'45		minimum elong	14519 Mar 05 01:07	24° X 40'29	0°29'00
max. Earth dist.	14513 Sep 03 21:28	27° Π 20'47	5.97409 AU	max. Earth dist.	14519 Mar 06 07:20	24° X 56'55	6.39786 AU
				morning rise	14519 Mar 18 07:28	27° X 33'21	
conjunction	14513 Sep 05 00:53	27° Π 37'21	-0°27'31		14519 Mar 29 17:42	0° Y	
minimum elong	14513 Sep 05 00:54	27° Π 37'22	0°27'40	retrograde	14519 Jul 18 14:36	14° Y 41'04	
	14513 Sep 14 21:03	0° Δ		opposition	14519 Sep 17 13:10	9° Y 42'37	0°33'18
morning rise	14513 Sep 18 04:33	0° Δ 47'50		min. Earth dist.	14519 Sep 17 01:56	9° Y 46'16	4.45558 AU
retrograde	14514 Jan 26 15:59	21° Δ 11'10		direct	14519 Nov 18 04:33	4° Y 42'14	
opposition	14514 Mar 27 00:55	16° Δ 13'27	-0°29'36	evening set	14520 Mar 22 00:21	21° Y 52'38	
min. Earth dist.	14514 Mar 27 07:00	16° Δ 11'25	3.92087 AU				
direct	14514 May 24 16:14	11° Δ 17'43		conjunction	14520 Apr 04 03:41	24° Y 40'53	0°15'40
	14514 Sep 22 21:17	0° L		minimum elong	14520 Apr 04 03:42	24° Y 40'53	0°15'20
evening set	14514 Sep 29 04:49	1° L 31'59		behind sun begin	14520 Apr 04 01:25	24° Y 39'41	
				behind sun end	14520 Apr 04 05:58	24° Y 42'06	
conjunction	14514 Oct 12 12:52	4° L 48'04	-0°09'52	max. Earth dist.	14520 Apr 04 04:46	24° Y 41'28	6.49465 AU
minimum elong	14514 Oct 12 12:53	4° L 48'04	0°09'21	morning rise	14520 Apr 17 05:27	27° Y 28'20	
behind sun begin	14514 Oct 12 05:55	4° L 43'48			14520 Apr 29 06:07	0° B	
behind sun end	14514 Oct 12 19:50	4° L 52'19		retrograde	14520 Aug 16 05:39	14° B 06'54	
max. Earth dist.	14514 Oct 12 22:02	4° L 53'40	5.89433 AU	opposition	14520 Oct 16 09:33	9° B 11'02	0°10'32
morning rise	14514 Oct 25 22:53	8° L 05'13		min. Earth dist.	14520 Oct 16 18:44	9° B 08'05	4.51192 AU
	14514 Nov 24 03:59	15° L		direct	14520 Dec 17 18:15	4° B 10'23	
retrograde	14515 Mar 06 14:09	28° L 58'14			14521 Mar 22 00:43	15° B	
asc. node	14515 Apr 07 04:56	27° L 20'36		desc. node	14521 Apr 02 05:26	17° B 13'35	
opposition	14515 May 04 19:25	23° L 57'30	0°02'25	evening set	14521 Apr 21 06:13	21° B 11'21	
min. Earth dist.	14515 May 03 23:50	24° L 04'07	3.89733 AU	max. Earth dist.	14521 May 03 02:25	23° B 43'02	6.50660 AU
direct	14515 Jul 01 21:05	19° L 02'13					
	14515 Sep 27 10:24	0° X		conjunction	14521 May 04 05:54	23° B 57'44	-0°01'25
evening set	14515 Nov 06 12:05	9° X 14'17		minimum elong	14521 May 04 05:53	23° B 57'43	0°02'10
				behind sun begin	14521 May 03 21:52	23° B 53'27	
conjunction	14515 Nov 20 00:27	12° X 30'43	0°12'03	behind sun end	14521 May 04 13:54	24° B 01'59	
minimum elong	14515 Nov 20 00:26	12° X 30'43	0°13'01	morning rise	14521 May 17 04:04	26° B 43'25	
behind sun begin	14515 Nov 19 19:26	12° X 27'41					

	14521 Jun 01 18:51	0°♊	opposition	14527 May 10 03:05	29°♎.18'39	0°07'07
retrograde	14521 Sep 15 04:17	13°♊23'13	direct	14527 Jul 07 05:12	24°♎.23'14	
opposition	14521 Nov 15 08:25	8°♊28'56 -0°14'47		14527 Sep 05 05:54	0°♊	
min. Earth dist.	14521 Nov 16 11:05	8°♊20'23 4.47948 AU	evening set	14527 Nov 11 18:32	14°♊31'19	
direct	14522 Jan 16 20:13	3°♊28'09				
evening set	14522 May 21 11:13	20°♊44'15	conjunction	14527 Nov 25 07:09	17°♊47'13	0°14'51
max. Earth dist.	14522 Jun 01 09:24	23°♊06'42 6.43139 AU	minimum elong	14527 Nov 25 07:08	17°♊47'12	0°15'51
			behind sun begin	14527 Nov 25 06:12	17°♊46'38	
conjunction	14522 Jun 03 08:35	23°♊32'26 -0°18'10	behind sun end	14527 Nov 25 08:04	17°♊47'46	
minimum elong	14522 Jun 03 08:35	23°♊32'25 0°19'12	max. Earth dist.	14527 Nov 27 06:56	18°♊16'05	5.94299 AU
morning rise	14522 Jun 16 04:25	26°♊20'08	morning rise	14527 Dec 08 21:24	21°♊03'44	
	14522 Jul 03 08:02	0°♋		14528 Jan 17 00:03	0°♋	
retrograde	14522 Oct 16 11:58	13°♋31'19	retrograde	14528 Apr 17 03:03	11°♋21'27	
opposition	14522 Dec 16 10:44	8°♋37'34 -0°37'04	min. Earth dist.	14528 Jun 14 01:21	6°♋31'00	4.00560 AU
min. Earth dist.	14522 Dec 18 00:21	8°♋25'30 4.36568 AU	opposition	14528 Jun 15 14:51	6°♋18'18	0°36'08
direct	14523 Feb 16 11:12	3°♋37'10	direct	14528 Aug 13 01:22	1°♋21'28	
evening set	14523 Jun 21 15:18	21°♋31'04	evening set	14528 Dec 18 03:01	20°♋45'57	
max. Earth dist.	14523 Jul 02 03:05	23°♋52'30 6.28638 AU				
			conjunction	14528 Dec 31 15:55	23°♋55'16	0°30'01
conjunction	14523 Jul 04 11:53	24°♋24'33 -0°30'29	minimum elong	14528 Dec 31 15:54	23°♋55'16	0°31'01
minimum elong	14523 Jul 04 11:52	24°♋24'32 0°31'28	max. Earth dist.	14529 Jan 03 03:02	24°♋29'45	6.08492 AU
morning rise	14523 Jul 17 07:52	27°♋18'00	morning rise	14529 Jan 14 05:40	27°♋04'37	
	14523 Jul 29 11:18	0°♌		14529 Jan 27 00:29	0°♌	
	14523 Nov 02 00:35	15°♌		14529 Apr 24 03:29	15°♌	
retrograde	14523 Nov 19 04:55	15°♌27'49	retrograde	14529 May 21 15:52	16°♌12'37	
	14523 Dec 06 07:34	15°♌♌		14529 Jun 17 23:59	15°♌♌	
opposition	14524 Jan 18 15:18	10°♌33'33 -0°49'57	min. Earth dist.	14529 Jul 19 02:24	11°♌22'04	4.17236 AU
min. Earth dist.	14524 Jan 20 06:15	10°♌20'54 4.19829 AU	opposition	14529 Jul 20 15:25	11°♌09'39	0°49'54
direct	14524 Mar 19 16:35	5°♌34'15	direct	14529 Sep 18 04:18	6°♌11'01	
	14524 Jun 10 20:21	15°♌		14529 Dec 07 11:33	15°♌	
evening set	14524 Jul 23 15:10	24°♌22'03	evening set	14530 Jan 22 07:51	24°♌38'23	
max. Earth dist.	14524 Aug 03 13:04	26°♌55'07 6.10985 AU				
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conjunction	14524 Aug 05 13:53	27°♌23'44 -0°33'57	minimum elong	14530 Feb 04 18:28	27°♌38'53	0°34'36
minimum elong	14524 Aug 05 13:53	27°♌23'45 0°34'36	max. Earth dist.	14530 Feb 06 21:17	28°♌07'21	6.26156 AU
	14524 Aug 16 16:24	0°♍		14530 Feb 15 06:45	0°♍	
morning rise	14524 Aug 18 12:46	0°♍25'54	morning rise	14530 Feb 18 04:41	0°♍38'54	
retrograde	14524 Dec 24 13:27	19°♍50'19	retrograde	14530 Jun 22 13:48	18°♍34'37	
opposition	14525 Feb 22 09:47	14°♍54'35 -0°47'00	min. Earth dist.	14530 Aug 21 00:18	13°♍42'34	4.34333 AU
min. Earth dist.	14525 Feb 23 11:41	14°♍46'03 4.02670 AU	opposition	14530 Aug 22 02:58	13°♍33'46	0°46'36
direct	14525 Apr 23 02:20	9°♍57'14	direct	14530 Oct 21 20:08	8°♍33'59	
evening set	14525 Aug 28 00:11	29°♍40'09	evening set	14531 Feb 24 04:56	26°♍12'02	
	14525 Aug 29 09:10	0°♎				
max. Earth dist.	14525 Sep 09 03:53	2°♎36'31 5.95909 AU	conjunction	14531 Mar 09 11:40	29°♍04'46	0°27'18
			minimum elong	14531 Mar 09 11:41	29°♍04'47	0°27'26
conjunction	14525 Sep 10 03:21	2°♎50'45 -0°25'35	max. Earth dist.	14531 Mar 10 13:16	29°♍18'40	6.41407 AU
minimum elong	14525 Sep 10 03:22	2°♎50'45 0°25'39		14531 Mar 13 17:24	0°♏	
morning rise	14525 Sep 23 07:56	6°♎02'19	morning rise	14531 Mar 22 17:27	1°♏56'47	
retrograde	14526 Feb 01 00:46	26°♎31'53	retrograde	14531 Jul 22 20:08	18°♏59'18	
opposition	14526 Apr 01 09:33	21°♎33'41 -0°25'36	opposition	14531 Sep 21 18:32	14°♏01'18	0°30'25
min. Earth dist.	14526 Apr 01 12:08	21°♎32'49 3.91248 AU	min. Earth dist.	14531 Sep 21 10:40	14°♏03'51	4.46728 AU
direct	14526 May 29 22:42	16°♎38'02	direct	14531 Nov 22 13:41	9°♏00'55	
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evening set	14526 Oct 04 11:33	6°♏53'53				
			conjunction	14532 Apr 08 09:59	28°♏56'43	0°13'24
conjunction	14526 Oct 17 20:27	10°♏10'21 -0°06'51	minimum elong	14532 Apr 08 09:59	28°♏56'43	0°12'59
minimum elong	14526 Oct 17 20:28	10°♏10'22 0°06'16	behind sun begin	14532 Apr 08 05:09	28°♏54'09	
behind sun begin	14526 Oct 17 12:36	10°♏05'34	behind sun end	14532 Apr 08 14:49	28°♏59'17	
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max. Earth dist.	14526 Oct 18 12:08	10°♏19'58 5.89357 AU		14532 Apr 13 08:25	0°♐	
morning rise	14526 Oct 31 07:00	13°♏27'49	morning rise	14532 Apr 21 11:13	1°♐43'43	
	14526 Nov 06 15:05	15°♏		14532 Jul 03 06:13	15°♐	
	14527 Jan 17 23:54	0°♑	retrograde	14532 Aug 20 08:44	18°♐20'42	
asc. node	14527 Feb 17 18:37	3°♑31'09		14532 Oct 08 00:52	15°♐♐	
retrograde	14527 Mar 11 22:59	4°♑19'47	opposition	14532 Oct 20 13:46	13°♐25'07	0°06'59
	14527 May 05 00:25	30°♐♐	min. Earth dist.	14532 Oct 21 00:29	13°♐21'40	4.51365 AU
min. Earth dist.	14527 May 09 05:28	29°♐25'58 3.90433 AU	direct	14532 Dec 21 23:00	8°♐24'30	
































































































































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	14533 Mar 02 21:28	15°♄		minimum elong	14538 Oct 22 23:01	15°♍20'49	0°03'16
evening set	14533 Apr 25 11:28	25°♄25'46		behind sun begin	14538 Oct 22 14:43	15°♍15'45	
max. Earth dist.	14533 May 07 05:59	27°♄56'39	6.50355 AU	behind sun end	14538 Oct 23 07:18	15°♍25'53	
				max. Earth dist.	14538 Oct 23 17:32	15°♍32'10	5.89070 AU
conjunction	14533 May 08 10:47	28°♄12'05	-0°03'53	morning rise	14538 Nov 05 10:28	18°♍38'47	
minimum elong	14533 May 08 10:46	28°♄12'05	0°04'42		14538 Dec 25 06:30	0°♊	
behind sun begin	14533 May 08 02:57	28°♄07'55		asc. node	14539 Jan 01 13:01	1°♊26'18	
behind sun end	14533 May 08 18:36	28°♄16'15		retrograde	14539 Mar 17 01:06	9°♊30'56	
	14533 May 16 20:11	0°♈		min. Earth dist.	14539 May 14 05:15	4°♊37'55	3.90768 AU
morning rise	14533 May 21 08:20	0°♈57'42		opposition	14539 May 15 06:03	4°♊29'31	0°11'34
retrograde	14533 Sep 19 09:54	17°♈39'10			14539 Jun 26 10:49	30°♈♍	
opposition	14533 Nov 19 14:20	12°♈45'05	-0°18'12	direct	14539 Jul 12 06:39	29°♈34'00	
min. Earth dist.	14533 Nov 20 18:34	12°♈36'04	4.47197 AU		14539 Jul 28 04:36	0°♊	
direct	14534 Jan 21 02:10	7°♈44'26		evening set	14539 Nov 16 21:36	19°♊40'10	
evening set	14534 May 25 17:21	25°♈03'08					
max. Earth dist.	14534 Jun 05 12:23	27°♈24'20	6.41981 AU	conjunction	14539 Nov 30 10:32	22°♊55'46	0°17'26
				minimum elong	14539 Nov 30 10:31	22°♊55'45	0°18'27
conjunction	14534 Jun 07 14:14	27°♈51'36	-0°20'14	max. Earth dist.	14539 Dec 02 12:11	23°♊25'42	5.95217 AU
minimum elong	14534 Jun 07 14:14	27°♈51'36	0°21'16	morning rise	14539 Dec 14 01:03	26°♊11'56	
	14534 Jun 17 09:07	0°♄			14539 Dec 30 04:13	0°♈	
morning rise	14534 Jun 20 10:01	0°♄39'42		retrograde	14540 Apr 22 01:07	16°♈24'10	
retrograde	14534 Oct 20 23:35	17°♄55'47		min. Earth dist.	14540 Jun 18 23:46	11°♈33'35	4.01939 AU
opposition	14534 Dec 20 21:05	13°♄02'01	-0°39'30	opposition	14540 Jun 20 13:10	11°♈20'55	0°39'02
min. Earth dist.	14534 Dec 22 11:40	12°♄49'37	4.35058 AU	direct	14540 Aug 18 03:00	6°♈23'49	
direct	14535 Feb 20 20:22	8°♄01'42		evening set	14540 Dec 23 02:29	25°♈43'17	
evening set	14535 Jun 26 00:23	26°♄00'16					
max. Earth dist.	14535 Jul 06 12:59	28°♄22'42	6.26885 AU	conjunction	14541 Jan 05 15:29	28°♈51'50	0°31'14
				minimum elong	14541 Jan 05 15:29	28°♈51'50	0°32'12
conjunction	14535 Jul 08 21:07	28°♄54'28	-0°31'33	max. Earth dist.	14541 Jan 08 04:15	29°♈27'07	6.10213 AU
minimum elong	14535 Jul 08 21:06	28°♄54'28	0°32'31		14541 Jan 10 12:53	0°♌	
	14535 Jul 13 16:49	0°♈		morning rise	14541 Jan 19 04:56	2°♌00'17	
morning rise	14535 Jul 21 17:06	1°♈48'40			14541 Mar 22 23:54	15°♌	
	14535 Sep 25 11:49	15°♈		retrograde	14541 May 26 06:31	21°♌00'07	
retrograde	14535 Nov 23 21:45	20°♈05'59		min. Earth dist.	14541 Jul 23 18:04	16°♌09'46	4.19126 AU
opposition	14536 Jan 23 07:33	15°♈11'35	-0°50'32	opposition	14541 Jul 25 07:10	15°♌57'21	0°50'22
	14536 Jan 24 19:15	15°♈♈			14541 Aug 01 11:38	15°♈	
min. Earth dist.	14536 Jan 24 21:25	14°♈59'18	4.17952 AU	direct	14541 Sep 22 22:32	10°♌58'32	
direct	14536 Mar 24 04:47	10°♈12'31			14541 Nov 13 23:55	15°♌	
	14536 May 20 05:50	15°♈		evening set	14542 Jan 27 01:26	29°♌20'04	
evening set	14536 Jul 28 05:54	29°♈06'16			14542 Jan 30 01:17	0°♉	
	14536 Aug 01 01:45	0°♐					
max. Earth dist.	14536 Aug 08 05:22	1°♐40'55	6.09126 AU	conjunction	14542 Feb 09 11:30	2°♉19'34	0°33'34
				minimum elong	14542 Feb 09 11:30	2°♉19'35	0°34'09
conjunction	14536 Aug 10 04:51	2°♐08'54	-0°33'31	max. Earth dist.	14542 Feb 11 11:01	2°♉46'05	6.28058 AU
minimum elong	14536 Aug 10 04:51	2°♐08'54	0°34'06	morning rise	14542 Feb 22 21:23	5°♉18'36	
morning rise	14536 Aug 23 04:21	5°♐12'08		retrograde	14542 Jun 26 23:15	23°♉06'49	
retrograde	14536 Dec 29 14:12	24°♐44'59		opposition	14542 Aug 26 12:56	18°♉06'14	0°44'55
opposition	14537 Feb 27 08:37	19°♐48'58	-0°45'06	min. Earth dist.	14542 Aug 25 12:42	18°♉14'14	4.36092 AU
min. Earth dist.	14537 Feb 28 08:39	19°♐41'01	4.00976 AU	direct	14542 Oct 26 10:10	13°♉06'15	
direct	14537 Apr 27 21:58	14°♐51'47			14543 Feb 25 14:48	0°♐	
	14537 Aug 13 04:10	0°♑		evening set	14543 Feb 28 16:26	0°♐39'30	
evening set	14537 Sep 01 21:05	4°♑40'06					
max. Earth dist.	14537 Sep 14 06:29	7°♑40'22	5.94555 AU	conjunction	14543 Mar 13 22:47	3°♐31'27	0°25'39
				minimum elong	14543 Mar 13 22:48	3°♐31'28	0°25'41
conjunction	14537 Sep 15 01:09	7°♑51'43	-0°23'33	max. Earth dist.	14543 Mar 14 22:46	3°♐44'26	6.42897 AU
minimum elong	14537 Sep 15 01:10	7°♑51'43	0°23'32	morning rise	14543 Mar 27 03:50	6°♐22'37	
morning rise	14537 Sep 28 06:24	11°♑04'16		retrograde	14543 Jul 26 23:49	23°♐19'58	
	14538 Jan 05 02:31	0°♌		opposition	14543 Sep 26 00:19	18°♐22'13	0°27'22
retrograde	14538 Feb 06 06:15	1°♌39'47		min. Earth dist.	14543 Sep 25 17:42	18°♐24'22	4.47842 AU
	14538 Mar 10 09:07	30°♈♑		direct	14543 Nov 26 21:08	13°♐21'44	
opposition	14538 Apr 06 12:53	26°♑41'18	-0°21'35		14544 Mar 28 11:12	0°♄	
min. Earth dist.	14538 Apr 06 13:20	26°♑41'09	3.90392 AU	evening set	14544 Mar 30 14:26	0°♄27'05	
direct	14538 Jun 03 23:19	21°♑45'48					
	14538 Aug 17 04:41	0°♌		conjunction	14544 Apr 12 16:37	3°♄14'24	0°11'03
evening set	14538 Oct 09 13:31	12°♌03'52		minimum elong	14544 Apr 12 16:37	3°♄14'24	0°10'35
	14538 Oct 21 13:05	15°♌		behind sun begin	14544 Apr 12 10:24	3°♄11'06	

behind sun end	14544 Apr 12 22:50	3°♄17'42		opposition	14550 Apr 11 23:01	2°♍05'19	-0°17'08
max. Earth dist.	14544 Apr 12 10:18	3°♄11'03	6.50769 AU	min. Earth dist.	14550 Apr 11 18:58	2°♍06'41	3.89534 AU
morning rise	14544 Apr 25 17:17	6°♄00'56			14550 Apr 28 00:59	30°♋♂	
	14544 Jun 09 23:52	15°♄		direct	14550 Jun 09 06:16	27°♂♂09'56	
retrograde	14544 Aug 24 13:55	22°♄36'10			14550 Jul 20 21:11	0°♍	
opposition	14544 Oct 24 18:38	17°♄40'48	0°03'22		14550 Oct 04 14:50	15°♍	
min. Earth dist.	14544 Oct 25 08:33	17°♄36'20	4.51458 AU	evening set	14550 Oct 14 22:37	17°♍29'56	
	14544 Nov 15 20:36	15°♋♂					
desc. node	14544 Dec 14 23:22	12°♄51'33		conjunction	14550 Oct 28 08:52	20°♍47'16	-0°00'41
direct	14544 Dec 26 06:09	12°♄40'05		minimum elong	14550 Oct 28 08:52	20°♍47'16	0°00'03
	14545 Feb 04 17:45	15°♄		behind sun begin	14550 Oct 28 01:30	20°♍42'47	
evening set	14545 Apr 29 16:48	29°♄41'36		behind sun end	14550 Oct 28 16:13	20°♍51'45	
	14545 May 01 03:23	0°♂		max. Earth dist.	14550 Oct 29 08:48	21°♍01'57	5.89033 AU
max. Earth dist.	14545 May 11 06:38	2°♂10'11	6.49858 AU	morning rise	14550 Nov 10 20:56	24°♍05'33	
				asc. node	14550 Nov 10 09:28	23°♍58'34	
conjunction	14545 May 12 15:38	2°♂27'54	-0°06'21		14550 Dec 05 17:18	0°♄	
minimum elong	14545 May 12 15:38	2°♂27'54	0°07'13	retrograde	14551 Mar 22 10:11	14°♄56'18	
behind sun begin	14545 May 12 08:17	2°♂23'58		opposition	14551 May 20 15:05	9°♄54'31	0°16'10
behind sun end	14545 May 12 22:59	2°♂31'49		min. Earth dist.	14551 May 19 12:18	10°♄03'36	3.91555 AU
morning rise	14545 May 25 12:55	5°♂13'33		direct	14551 Jul 17 16:41	4°♄58'53	
retrograde	14545 Sep 23 16:55	21°♂57'25		evening set	14551 Nov 22 06:01	25°♄00'57	
opposition	14545 Nov 23 21:17	17°♂03'21	-0°21'35				
min. Earth dist.	14545 Nov 25 02:58	16°♂53'51	4.46118 AU	conjunction	14551 Dec 05 19:19	28°♄15'57	0°20'01
direct	14546 Jan 25 07:45	12°♂02'37		minimum elong	14551 Dec 05 19:19	28°♄15'57	0°21'02
evening set	14546 May 30 00:12	29°♂24'54		max. Earth dist.	14551 Dec 08 01:37	28°♄48'32	5.96755 AU
	14546 Jun 01 16:37	0°♂			14551 Dec 13 00:48	0°♂	
max. Earth dist.	14546 Jun 09 18:36	1°♂46'13	6.40381 AU	morning rise	14551 Dec 19 09:53	1°♂31'24	
				retrograde	14552 Apr 27 02:18	21°♂35'09	
conjunction	14546 Jun 11 21:02	2°♂13'54	-0°22'14	min. Earth dist.	14552 Jun 24 00:14	16°♂45'02	4.04067 AU
minimum elong	14546 Jun 11 21:01	2°♂13'54	0°23'15	opposition	14552 Jun 25 15:13	16°♂31'52	0°41'44
morning rise	14546 Jun 24 16:30	5°♂02'31		direct	14552 Aug 23 07:25	11°♂34'35	
retrograde	14546 Oct 25 12:49	22°♂25'03			14552 Dec 24 20:23	0°♂	
opposition	14546 Dec 25 09:24	17°♂31'16	-0°41'48	evening set	14552 Dec 28 04:49	0°♂46'07	
min. Earth dist.	14546 Dec 27 00:55	17°♂18'33	4.33020 AU				
direct	14547 Feb 25 05:53	12°♂31'02		conjunction	14553 Jan 10 17:20	3°♂53'22	0°32'17
	14547 Jun 27 20:04	0°♂		minimum elong	14553 Jan 10 17:20	3°♂53'21	0°33'12
evening set	14547 Jun 30 12:19	0°♂36'08		max. Earth dist.	14553 Jan 13 04:53	4°♂27'45	6.12717 AU
max. Earth dist.	14547 Jul 10 23:44	2°♂58'42	6.24548 AU	morning rise	14553 Jan 24 06:32	7°♂00'30	
					14553 Mar 01 19:02	15°♂	
conjunction	14547 Jul 13 09:02	3°♂31'18	-0°32'27	retrograde	14553 May 30 20:57	25°♂49'26	
minimum elong	14547 Jul 13 09:02	3°♂31'18	0°33'23	min. Earth dist.	14553 Jul 28 11:58	20°♂58'52	4.21767 AU
morning rise	14547 Jul 26 05:27	6°♂26'36		opposition	14553 Jul 29 23:59	20°♂46'49	0°50'32
	14547 Sep 03 21:28	15°♂		direct	14553 Sep 27 19:39	15°♂47'48	
retrograde	14547 Nov 28 20:34	24°♂53'45			14554 Jan 13 07:25	0°♄	
opposition	14548 Jan 28 04:04	19°♂59'08	-0°50'50	evening set	14554 Jan 31 19:01	4°♄01'05	
min. Earth dist.	14548 Jan 29 16:58	19°♂47'07	4.15467 AU				
direct	14548 Mar 28 21:18	15°♂00'13		conjunction	14554 Feb 14 04:42	6°♄59'19	0°33'00
	14548 Jul 15 13:52	0°♄		minimum elong	14554 Feb 14 04:42	6°♄59'19	0°33'31
evening set	14548 Aug 02 01:07	4°♄02'02		max. Earth dist.	14554 Feb 16 02:59	7°♄25'01	6.30633 AU
max. Earth dist.	14548 Aug 13 04:56	6°♄40'02	6.06725 AU	morning rise	14554 Feb 27 13:42	9°♄56'57	
				retrograde	14554 Jul 01 06:07	27°♄35'43	
conjunction	14548 Aug 15 00:48	7°♄06'01	-0°32'50	opposition	14554 Aug 30 21:44	22°♄35'33	0°43'02
minimum elong	14548 Aug 15 00:49	7°♄06'01	0°33'19	min. Earth dist.	14554 Aug 29 23:10	22°♄42'57	4.38395 AU
morning rise	14548 Aug 28 00:52	10°♄10'36		direct	14554 Oct 30 22:40	17°♄35'31	
retrograde	14549 Jan 03 21:38	29°♄53'58			14555 Feb 08 23:47	0°♄	
opposition	14549 Mar 04 13:44	24°♄57'40	-0°42'47	evening set	14555 Mar 05 02:21	5°♄02'35	
min. Earth dist.	14549 Mar 05 11:33	24°♄50'27	3.98888 AU				
direct	14549 May 02 22:21	20°♄00'48		conjunction	14555 Mar 18 07:54	7°♄53'32	0°23'54
	14549 Jul 25 14:22	0°♂		minimum elong	14555 Mar 18 07:55	7°♄53'32	0°23'52
evening set	14549 Sep 07 00:47	9°♂55'45		max. Earth dist.	14555 Mar 19 02:28	8°♄03'32	6.44750 AU
				morning rise	14555 Mar 31 12:24	10°♄43'44	
conjunction	14549 Sep 20 05:31	13°♂08'29	-0°21'13	retrograde	14555 Jul 31 03:37	27°♄35'23	
minimum elong	14549 Sep 20 05:32	13°♂08'29	0°21'05	opposition	14555 Sep 30 04:28	22°♄38'00	0°24'15
max. Earth dist.	14549 Sep 19 14:09	12°♂59'06	5.92983 AU	min. Earth dist.	14555 Sep 30 01:30	22°♄38'58	4.49130 AU
morning rise	14549 Oct 03 11:52	16°♂22'15		direct	14555 Dec 01 04:42	17°♄37'26	
	14549 Dec 04 09:00	0°♍			14556 Mar 12 05:35	0°♄	
retrograde	14550 Feb 11 16:45	7°♍04'12		evening set	14556 Apr 03 19:11	4°♄39'59	

conjunction	14556 Apr 16 20:55	7°  26'52	0°08'43	morning rise	14561 Oct 08 20:50	21°  49'33	
minimum elong	14556 Apr 16 20:56	7°  26'52	0°08'10		14561 Nov 12 19:05	0° 	
behind sun begin	14556 Apr 16 13:49	7°  23'05		retrograde	14562 Feb 17 07:41	12°  37'13	
behind sun end	14556 Apr 17 04:03	7°  30'39		opposition	14562 Apr 17 12:09	7°  37'51	-0°12'30
max. Earth dist.	14556 Apr 16 11:10	7°  21'40	6.51394 AU	min. Earth dist.	14562 Apr 17 04:54	7°  40'17	3.88939 AU
morning rise	14556 Apr 29 20:55	10°  12'57		direct	14562 Jun 14 17:54	2°  42'32	
	14556 May 23 00:06	15°  8		asc. node	14562 Sep 16 15:59	15°  06'49	
retrograde	14556 Aug 28 15:29	26°  47'00			14562 Sep 16 03:42	15° 	
desc. node	14556 Oct 26 09:49	22°  11'00		evening set	14562 Oct 20 10:16	23°  02'57	
opposition	14556 Oct 28 21:30	21°  51'52	-0°00'10				
min. Earth dist.	14556 Oct 29 13:18	21°  46'48	4.51392 AU	conjunction	14562 Nov 02 21:13	26°  02'25	0°02'33
direct	14556 Dec 30 08:32	16°  51'08		minimum elong	14562 Nov 02 21:14	26°  02'25	0°03'21
	14557 Apr 15 05:33	0°  II		behind sun begin	14562 Nov 02 12:56	26°  15'21	
evening set	14557 May 03 20:30	3°  II53'46		behind sun end	14562 Nov 03 05:32	26°  25'29	
max. Earth dist.	14557 May 15 06:52	6°  II20'47	6.49090 AU	max. Earth dist.	14562 Nov 04 03:49	26°  39'09	5.89404 AU
				morning rise	14562 Nov 16 09:54	29°  38'46	
conjunction	14557 May 16 18:55	6°  II40'10	-0°08'43		14562 Nov 17 20:52	0°  ♂	
minimum elong	14557 May 16 18:55	6°  II40'10	0°09'38	retrograde	14563 Mar 27 19:36	20°  ♂25'35	
behind sun begin	14557 May 16 12:19	6°  II36'39		min. Earth dist.	14563 May 24 18:57	15°  ♂33'39	3.92856 AU
behind sun end	14557 May 17 01:30	6°  II43'42		opposition	14563 May 26 01:07	15°  ♂23'26	0°20'37
morning rise	14557 May 29 15:47	9°  II25'59		direct	14563 Jul 23 03:09	10°  ♂27'37	
retrograde	14557 Sep 28 00:30	26°  II13'24			14563 Nov 26 00:00	0°  ♂	
opposition	14557 Nov 28 03:09	21°  II19'28	-0°24'48	evening set	14563 Nov 27 15:18	0°  ♂23'19	
min. Earth dist.	14557 Nov 29 11:56	21°  II08'59	4.44675 AU				
direct	14558 Jan 29 13:12	16°  II18'45		conjunction	14563 Dec 11 04:30	3°  ♂37'20	0°22'25
	14558 May 16 17:19	0°  ♄		minimum elong	14563 Dec 11 04:29	3°  ♂37'19	0°23'27
evening set	14558 Jun 03 06:31	3°  ♄46'05		max. Earth dist.	14563 Dec 13 12:10	4°  ♂10'34	5.98803 AU
max. Earth dist.	14558 Jun 13 21:07	6°  ♄05'59	6.38343 AU	morning rise	14563 Dec 24 19:12	6°  ♂51'45	
				retrograde	14564 May 02 00:16	26°  ♂44'50	
conjunction	14558 Jun 16 03:09	6°  ♄35'47	-0°24'05	min. Earth dist.	14564 Jun 29 00:39	21°  ♂54'47	4.06603 AU
minimum elong	14558 Jun 16 03:09	6°  ♄35'47	0°25'07	opposition	14564 Jun 30 16:13	21°  ♂41'24	0°44'03
morning rise	14558 Jun 28 22:46	9°  ♄25'13		direct	14564 Aug 28 12:13	16°  ♂43'46	
retrograde	14558 Oct 30 03:26	26°  ♄56'02			14564 Dec 07 09:28	0°  ≈	
opposition	14558 Dec 29 22:10	22°  ♄02'09	-0°43'53	evening set	14565 Jan 02 05:58	5°  ≈46'05	
min. Earth dist.	14558 Dec 31 13:59	21°  ♄49'19	4.30502 AU				
direct	14559 Mar 01 14:38	17°  ♄02'00		conjunction	14565 Jan 15 18:18	8°  ≈51'56	0°33'04
	14559 Jun 11 06:09	0°  ♄		minimum elong	14565 Jan 15 18:17	8°  ≈51'56	0°33'55
evening set	14559 Jul 05 00:55	5°  ♄15'28		max. Earth dist.	14565 Jan 18 05:42	9°  ≈26'02	6.15502 AU
max. Earth dist.	14559 Jul 15 14:18	7°  ♄39'58	6.21747 AU	morning rise	14565 Jan 29 06:48	11°  ≈57'34	
					14565 Feb 11 19:38	15°  ≈	
conjunction	14559 Jul 17 22:04	8°  ♄11'54	-0°33'10		14565 May 16 10:02	0°  ♄	
minimum elong	14559 Jul 17 22:04	8°  ♄11'54	0°34'03	retrograde	14565 Jun 04 10:45	0°  ♄34'48	
morning rise	14559 Jul 30 18:44	11°  ♄08'31			14565 Jun 23 07:05	30°  ♄≈	
	14559 Aug 16 22:51	15°  ♄		min. Earth dist.	14565 Aug 02 04:58	25°  ≈43'55	4.24522 AU
retrograde	14559 Dec 03 22:20	29°  ♄47'20		opposition	14565 Aug 03 15:17	25°  ≈32'28	0°50'19
opposition	14560 Feb 02 02:35	24°  ♄52'36	-0°50'51	direct	14565 Oct 02 15:48	20°  ≈33'15	
min. Earth dist.	14560 Feb 03 14:53	24°  ♄40'45	4.12597 AU		14565 Dec 26 01:53	0°  ♄	
direct	14560 Apr 02 14:56	19°  ♄53'58		evening set	14566 Feb 05 11:07	8°  ♄38'11	
	14560 Jun 27 07:47	0°  ♄					
evening set	14560 Aug 06 23:11	9°  ♄05'23		conjunction	14566 Feb 18 20:07	11°  ♄35'08	0°32'12
max. Earth dist.	14560 Aug 18 05:18	11°  ♄45'46	6.04041 AU	minimum elong	14566 Feb 18 20:07	11°  ♄35'08	0°32'38
				max. Earth dist.	14566 Feb 20 14:11	11°  ♄58'21	6.33129 AU
conjunction	14560 Aug 19 23:25	12°  ♄10'52	-0°31'54	morning rise	14566 Mar 04 04:37	14°  ♄31'30	
minimum elong	14560 Aug 19 23:26	12°  ♄10'52	0°32'20		14566 May 29 23:11	0°  ♄	
morning rise	14560 Sep 02 00:30	15°  ♄17'04		retrograde	14566 Jul 05 11:37	2°  ♄01'31	
	14560 Nov 11 06:20	0°  ♄			14566 Aug 10 21:45	30°  ♄♄	
retrograde	14561 Jan 09 06:49	5°  ♄11'56		min. Earth dist.	14566 Sep 03 09:43	27°  ♄08'12	4.40468 AU
opposition	14561 Mar 09 21:42	0°  ♄15'19	-0°40'07	opposition	14566 Sep 04 05:35	27°  ♄01'41	0°40'53
min. Earth dist.	14561 Mar 10 15:24	0°  ♄09'27	3.96672 AU	direct	14566 Nov 04 10:17	22°  ♄01'30	
	14561 Mar 11 19:52	30°  ♄♄			14567 Jan 21 12:40	0°  ♄	
direct	14561 May 08 01:17	25°  ♄18'42		evening set	14567 Mar 09 11:22	9°  ♄23'20	
	14561 Jul 01 22:49	0°  ♄					
evening set	14561 Sep 12 07:54	15°  ♄20'45		conjunction	14567 Mar 22 16:30	12°  ♄13'29	0°22'00
				minimum elong	14567 Mar 22 16:31	12°  ♄13'30	0°21'54
conjunction	14561 Sep 25 13:37	18°  ♄34'38	-0°18'41	max. Earth dist.	14567 Mar 23 07:56	12°  ♄21'47	6.46271 AU
minimum elong	14561 Sep 25 13:37	18°  ♄34'39	0°18'27	morning rise	14567 Apr 04 20:09	15°  ♄02'50	
max. Earth dist.	14561 Sep 25 05:05	18°  ♄29'26	5.91484 AU		14567 Jun 30 06:15	0°  ♄	

retrograde	14567 Aug 04 06:05	1°♄49'58		conjunction	14572 Aug 25 01:11	17°♎22'37	-0°30'43
	14567 Sep 08 04:08	30°♋♎		minimum elong	14572 Aug 25 01:12	17°♎22'37	0°31'03
opposition	14567 Oct 04 08:27	26°♎52'59	0°20'59	morning rise	14572 Sep 07 02:58	20°♎30'13	
min. Earth dist.	14567 Oct 04 07:58	26°♎53'08	4.50019 AU		14572 Oct 19 01:59	0°♊	
direct	14567 Dec 05 10:41	21°♎52'25		retrograde	14573 Jan 14 20:21	10°♊34'56	
	14568 Feb 23 05:23	0°♄		opposition	14573 Mar 15 08:10	5°♊38'02	-0°37'02
evening set	14568 Apr 08 00:42	8°♄53'28		min. Earth dist.	14573 Mar 15 22:58	5°♊33'07	3.95032 AU
max. Earth dist.	14568 Apr 20 10:28	11°♄31'53	6.51588 AU	direct	14573 May 13 08:51	0°♊41'47	
				evening set	14573 Sep 17 16:19	20°♊48'23	
conjunction	14568 Apr 21 01:48	11°♄40'03	0°06'18				
minimum elong	14568 Apr 21 01:48	11°♄40'03	0°05'41	conjunction	14573 Sep 30 22:49	24°♊03'04	-0°15'59
behind sun begin	14568 Apr 20 18:06	11°♄35'58		minimum elong	14573 Sep 30 22:49	24°♊03'04	0°15'40
behind sun end	14568 Apr 21 09:30	11°♄44'08		behind sun begin	14573 Sep 30 20:51	24°♊01'52	
morning rise	14568 May 04 01:26	14°♄25'54		behind sun end	14573 Oct 01 00:48	24°♊04'17	
	14568 May 06 17:56	15°♄		max. Earth dist.	14573 Sep 30 20:25	24°♊01'36	5.90666 AU
	14568 Aug 07 02:46	0°♈		morning rise	14573 Oct 14 06:54	27°♊18'47	
retrograde	14568 Sep 01 21:24	1°♈00'09			14573 Oct 25 10:01	0°♈	
desc. node	14568 Sep 07 09:20	0°♈57'18			14574 Jan 09 02:54	15°♈	
	14568 Sep 27 12:15	30°♋♄		retrograde	14574 Feb 22 19:46	18°♈08'52	
opposition	14568 Nov 02 01:58	26°♄05'16	-0°03'46		14574 Apr 08 23:08	15°♋♈	
min. Earth dist.	14568 Nov 02 21:30	25°♄59'00	4.50887 AU	opposition	14574 Apr 23 00:29	13°♈09'07	-0°07'46
direct	14569 Jan 03 14:28	21°♄04'28		min. Earth dist.	14574 Apr 22 12:39	13°♈13'06	3.89084 AU
	14569 Mar 28 16:37	0°♈		direct	14574 Jun 20 03:31	8°♈13'54	
evening set	14569 May 08 01:46	8°♈09'29		asc. node	14574 Jul 24 14:06	10°♈12'14	
max. Earth dist.	14569 May 19 08:32	10°♈34'58	6.47908 AU		14574 Aug 25 14:55	15°♈	
				evening set	14574 Oct 25 20:47	28°♈31'57	
conjunction	14569 May 20 23:58	10°♈56'14	-0°11'07		14574 Oct 31 21:26	0°♄	
minimum elong	14569 May 20 23:58	10°♈56'13	0°12'03				
behind sun begin	14569 May 20 18:30	10°♈53'18		conjunction	14574 Nov 08 08:01	1°♄49'05	0°05'38
behind sun end	14569 May 21 05:25	10°♈59'09		minimum elong	14574 Nov 08 08:01	1°♄49'04	0°06'30
morning rise	14569 Jun 02 20:33	13°♈42'23		behind sun begin	14574 Nov 08 00:10	1°♄44'18	
	14569 Sep 12 23:41	0°♄		behind sun end	14574 Nov 08 15:51	1°♄53'50	
retrograde	14569 Oct 02 09:18	0°♄34'42		max. Earth dist.	14574 Nov 09 18:19	2°♄10'01	5.90471 AU
	14569 Oct 21 18:45	30°♋♈		morning rise	14574 Nov 21 21:13	5°♄07'05	
opposition	14569 Dec 02 11:44	25°♈40'50	-0°27'59	retrograde	14575 Apr 02 00:09	25°♄47'16	
min. Earth dist.	14569 Dec 03 21:21	25°♈30'04	4.42890 AU	min. Earth dist.	14575 May 29 23:10	20°♄55'50	3.94713 AU
direct	14570 Feb 02 18:44	20°♈40'09		opposition	14575 May 31 07:43	20°♄44'48	0°24'43
	14570 Apr 29 01:52	0°♄		direct	14575 Jul 28 12:15	15°♄48'43	
evening set	14570 Jun 07 15:37	8°♄13'32			14575 Nov 08 15:00	0°♄	
max. Earth dist.	14570 Jun 18 05:46	10°♄33'52	6.36071 AU	evening set	14575 Dec 02 20:39	5°♄36'27	
conjunction	14570 Jun 20 12:15	11°♄04'05	-0°25'51	conjunction	14575 Dec 16 09:57	8°♄49'18	0°24'32
minimum elong	14570 Jun 20 12:14	11°♄04'05	0°26'53	minimum elong	14575 Dec 16 09:56	8°♄49'18	0°25'35
morning rise	14570 Jul 03 07:47	13°♄54'25		max. Earth dist.	14575 Dec 18 20:00	9°♄23'47	6.01251 AU
	14570 Oct 02 18:42	0°♈		morning rise	14575 Dec 30 00:17	12°♄02'25	
retrograde	14570 Nov 03 22:40	1°♈34'19			14576 Apr 03 20:42	0°♈	
	14570 Dec 06 02:20	30°♋♄		retrograde	14576 May 06 19:49	1°♈43'57	
opposition	14571 Jan 03 14:29	26°♄40'27	-0°45'45		14576 Jun 08 14:16	30°♋♄	
min. Earth dist.	14571 Jan 05 07:24	26°♄27'15	4.27882 AU	min. Earth dist.	14576 Jul 03 22:09	26°♄53'42	4.09357 AU
direct	14571 Mar 06 03:48	21°♄40'31		opposition	14576 Jul 05 13:01	26°♄40'35	0°45'56
	14571 May 23 11:02	0°♈		direct	14576 Sep 02 13:11	21°♄42'44	
evening set	14571 Jul 09 17:10	10°♈02'38			14576 Nov 18 05:50	0°♈	
max. Earth dist.	14571 Jul 20 06:27	12°♈28'03	6.18990 AU	evening set	14577 Jan 07 02:34	10°♈35'34	
conjunction	14571 Jul 22 14:33	13°♈00'23	-0°33'41	conjunction	14577 Jan 20 14:22	13°♈39'59	0°33'35
minimum elong	14571 Jul 22 14:33	13°♈00'23	0°34'30	minimum elong	14577 Jan 20 14:22	13°♈39'59	0°34'24
	14571 Jul 31 06:12	15°♈		max. Earth dist.	14577 Jan 22 23:49	14°♈12'44	6.18295 AU
morning rise	14571 Aug 04 11:50	15°♈58'23			14577 Jan 26 10:50	15°♈	
	14571 Oct 12 20:02	0°♎		morning rise	14577 Feb 03 02:26	16°♈44'09	
retrograde	14571 Dec 09 01:22	4°♎48'47			14577 Apr 10 04:46	0°♈	
	14572 Feb 06 09:47	30°♋♈		retrograde	14577 Jun 08 18:11	5°♈10'22	
opposition	14572 Feb 07 04:32	29°♈53'52	-0°50'27	min. Earth dist.	14577 Aug 06 17:16	0°♈19'19	4.27127 AU
min. Earth dist.	14572 Feb 08 13:54	29°♈42'57	4.09944 AU	opposition	14577 Aug 08 02:16	0°♈08'20	0°49'48
direct	14572 Apr 07 11:15	24°♈55'35			14577 Aug 09 03:20	30°♋♈	
	14572 Jun 04 17:40	0°♎		direct	14577 Oct 07 06:28	25°♈08'58	
evening set	14572 Aug 12 00:10	14°♎15'46			14577 Dec 04 11:20	0°♈	
max. Earth dist.	14572 Aug 23 12:30	17°♎00'39	6.01766 AU	evening set	14578 Feb 09 23:12	13°♈06'31	

conjunction	14578 Feb 23 07:43	16° H 02'20	0°31'15	direct	14583 Mar 10 16:08	26° S 20'46	
minimum elong	14578 Feb 23 07:43	16° H 02'21	0°31'36		14583 Apr 29 12:11	0° Q	
max. Earth dist.	14578 Feb 24 21:54	16° H 23'20	6.35361 AU	evening set	14583 Jul 14 09:30	14° Q 50'43	
morning rise	14578 Mar 08 15:26	18° H 57'31			14583 Jul 15 01:41	15° Q	
	14578 May 03 03:23	0° Y		max. Earth dist.	14583 Jul 25 02:04	17° Q 18'48	6.16518 AU
retrograde	14578 Jul 09 15:24	6° Y 20'03					
opposition	14578 Sep 08 10:13	1° Y 20'42	0°38'37	conjunction	14583 Jul 27 07:13	17° Q 49'37	-0°33'57
min. Earth dist.	14578 Sep 07 17:38	1° Y 26'08	4.42183 AU	minimum elong	14583 Jul 27 07:13	17° Q 49'37	0°34'44
	14578 Sep 18 20:12	30° R H		morning rise	14583 Aug 09 04:53	20° Q 48'51	
direct	14578 Nov 08 19:12	26° H 20'29			14583 Sep 20 04:30	0° M	
	14578 Dec 29 15:18	0° Y		retrograde	14583 Dec 14 06:05	9° M 49'32	
evening set	14579 Mar 13 17:38	13° Y 38'25		opposition	14584 Feb 12 06:22	4° M 54'21	-0°49'39
				min. Earth dist.	14584 Feb 13 14:25	4° M 43'51	4.07672 AU
conjunction	14579 Mar 26 22:08	16° Y 27'56	0°20'04		14584 Apr 06 07:11	30° R Q	
minimum elong	14579 Mar 26 22:09	16° Y 27'56	0°19'54	direct	14584 Apr 12 10:00	29° Q 56'19	
max. Earth dist.	14579 Mar 27 07:52	16° Y 33'09	6.47351 AU		14584 Apr 18 12:28	0° M	
morning rise	14579 Apr 09 01:22	19° Y 16'42		evening set	14584 Aug 17 00:17	19° M 23'27	
	14579 Jun 03 05:26	0° S		max. Earth dist.	14584 Aug 28 16:54	22° M 11'36	5.99895 AU
retrograde	14579 Aug 08 08:10	6° S 00'57					
opposition	14579 Oct 08 10:51	1° S 04'17	0°17'44	conjunction	14584 Aug 30 01:58	22° M 31'28	-0°29'17
min. Earth dist.	14579 Oct 08 13:34	1° S 03'25	4.50439 AU	minimum elong	14584 Aug 30 01:58	22° M 31'28	0°29'31
	14579 Oct 16 19:40	30° R Y		morning rise	14584 Sep 12 04:34	25° M 40'17	
direct	14579 Dec 09 15:06	26° Y 03'39			14584 Sep 30 13:50	0° Q	
	14580 Feb 01 01:51	0° S		retrograde	14585 Jan 20 05:13	15° Q 52'49	
evening set	14580 Apr 12 04:29	13° S 04'37		opposition	14585 Mar 20 16:11	10° Q 55'32	-0°33'39
	14580 Apr 21 05:29	15° S		min. Earth dist.	14585 Mar 21 02:50	10° Q 51'59	3.93766 AU
max. Earth dist.	14580 Apr 24 11:28	15° S 41'39	6.51332 AU	direct	14585 May 18 12:12	5° Q 59'29	
				evening set	14585 Sep 22 22:36	26° Q 09'20	
conjunction	14580 Apr 25 05:20	15° S 51'10	0°03'55				
minimum elong	14580 Apr 25 05:19	15° S 51'10	0°03'14	conjunction	14585 Oct 06 05:42	29° Q 24'37	-0°13'10
behind sun begin	14580 Apr 24 21:20	15° S 46'55		minimum elong	14585 Oct 06 05:43	29° Q 24'37	0°12'45
behind sun end	14580 Apr 25 13:18	15° S 55'24		behind sun begin	14585 Oct 06 00:30	29° Q 21'26	
morning rise	14580 May 08 04:19	18° S 36'56		behind sun end	14585 Oct 06 10:55	29° Q 27'48	
	14580 Jul 06 19:29	0° I		max. Earth dist.	14585 Oct 06 07:41	29° Q 25'49	5.90120 AU
desc. node	14580 Jul 21 09:45	2° I 04'01			14585 Oct 08 15:24	0° M	
retrograde	14580 Sep 06 00:33	5° I 12'47		morning rise	14585 Oct 19 14:40	2° M 40'58	
opposition	14580 Nov 06 05:51	0° I 18'07	-0°07'17		14585 Dec 13 06:21	15° M	
min. Earth dist.	14580 Nov 07 03:07	0° I 11'19	4.49994 AU	retrograde	14586 Feb 28 04:18	23° M 32'26	
	14580 Nov 08 14:28	30° R S		opposition	14586 Apr 28 09:36	18° M 32'13	-0°03'02
direct	14581 Jan 07 17:40	25° S 17'23		min. Earth dist.	14586 Apr 27 18:33	18° M 37'18	3.89320 AU
	14581 Mar 07 13:42	0° I			14586 May 27 19:01	15° R M	
evening set	14581 May 12 07:05	12° I 25'51		asc. node	14586 Jun 02 18:05	14° M 29'52	
max. Earth dist.	14581 May 23 10:21	14° I 49'59	6.46438 AU	direct	14586 Jun 25 12:21	13° M 36'57	
					14586 Jul 24 04:24	15° M	
conjunction	14581 May 25 04:52	15° I 13'00	-0°13'24		14586 Oct 14 23:22	0° S	
minimum elong	14581 May 25 04:51	15° I 13'00	0°14'21	evening set	14586 Oct 31 04:11	3° S 52'34	
behind sun begin	14581 May 25 01:09	15° I 11'00					
behind sun end	14581 May 25 08:33	15° I 14'59		conjunction	14586 Nov 13 16:02	7° S 09'27	0°08'39
morning rise	14581 Jun 07 01:18	17° I 59'38		minimum elong	14586 Nov 13 16:02	7° S 09'27	0°09'33
	14581 Aug 08 11:27	0° S		behind sun begin	14586 Nov 13 09:07	7° S 05'16	
retrograde	14581 Oct 06 20:39	4° S 57'39		behind sun end	14586 Nov 13 22:56	7° S 13'39	
opposition	14581 Dec 06 20:51	0° S 03'51	-0°30'59	max. Earth dist.	14586 Nov 15 07:43	7° S 33'37	5.91469 AU
	14581 Dec 07 08:51	30° R I		morning rise	14586 Nov 27 05:28	10° S 27'05	
min. Earth dist.	14581 Dec 08 08:42	29° I 52'21	4.40933 AU		14587 Mar 13 05:00	0° S	
direct	14582 Feb 07 02:59	25° I 03'13		retrograde	14587 Apr 07 04:00	1° S 01'14	
	14582 Apr 07 19:53	0° S			14587 May 01 22:18	30° R S	
evening set	14582 Jun 12 01:10	12° S 42'55		min. Earth dist.	14587 Jun 04 02:10	26° S 09'54	3.96345 AU
max. Earth dist.	14582 Jun 22 14:04	15° S 03'18	6.33769 AU	opposition	14587 Jun 05 11:39	25° S 58'33	0°28'35
				direct	14587 Aug 02 18:19	21° S 02'17	
conjunction	14582 Jun 24 21:50	15° S 34'23	-0°27'26		14587 Oct 20 11:48	0° S	
minimum elong	14582 Jun 24 21:50	15° S 34'23	0°28'28	evening set	14587 Dec 08 00:07	10° S 43'18	
morning rise	14582 Jul 07 17:30	18° S 25'40					
	14582 Sep 02 23:30	0° Q		conjunction	14587 Dec 21 13:18	13° S 55'09	0°26'28
retrograde	14582 Nov 08 16:09	6° Q 14'33		minimum elong	14587 Dec 21 13:18	13° S 55'08	0°27'29
opposition	14583 Jan 08 07:24	1° Q 20'32	-0°47'18	max. Earth dist.	14587 Dec 24 00:18	14° S 29'59	6.03332 AU
min. Earth dist.	14583 Jan 09 22:49	1° Q 07'47	4.25397 AU	morning rise	14588 Jan 04 03:36	17° S 07'13	
	14583 Jan 18 19:36	30° R S			14588 Mar 04 21:03	0° S	

retrograde	14588 May 11 12:02	6°  38'47		opposition	14593 Dec 11 06:08	4°  27'07	-0°33'50
min. Earth dist.	14588 Jul 08 16:47	1°  48'47	4.11674 AU	min. Earth dist.	14593 Dec 12 17:57	4°  15'38	4.39591 AU
opposition	14588 Jul 10 08:09	1°  35'32	0°47'29		14594 Jan 23 07:46	30°  R II	
	14588 Jul 22 09:38	30°  R 		direct	14594 Feb 11 10:01	29°  II 26'40	
direct	14588 Sep 07 10:56	26°  33'28			14594 Mar 02 14:36	0° 	
	14588 Oct 24 09:39	0° 		evening set	14594 Jun 16 09:46	17°  10'32	
	14589 Jan 10 06:26	15° 		max. Earth dist.	14594 Jun 26 22:13	19°  13'13	6.32150 AU
evening set	14589 Jan 11 22:46	15°  22'44					
				conjunction	14594 Jun 29 06:12	20°  02'33	-0°28'53
conjunction	14589 Jan 25 10:13	18°  25'58	0°33'53	minimum elong	14594 Jun 29 06:12	20°  02'33	0°29'53
minimum elong	14589 Jan 25 10:13	18°  25'58	0°34'39	morning rise	14594 Jul 12 01:54	22°  05'42'29	
max. Earth dist.	14589 Jan 27 16:55	18°  57'00	6.20652 AU		14594 Aug 14 03:41	0° 	
morning rise	14589 Feb 07 21:45	21°  28'53		retrograde	14594 Nov 13 09:01	10°  15'01'14	
	14589 Mar 19 19:50	0° 		opposition	14595 Jan 12 22:28	5°  15'56'07	-0°48'33
retrograde	14589 Jun 13 05:14	9°  14'45'48		min. Earth dist.	14595 Jan 14 14:19	5°  13'43'13	4.23586 AU
min. Earth dist.	14589 Aug 11 07:29	4°  13'54'13	4.29315 AU	direct	14595 Mar 15 05:36	0°  15'56'31	
opposition	14589 Aug 12 13:46	4°  14'44'10	0°49'00		14595 Jun 28 21:14	15° 	
	14589 Sep 29 07:06	30°  R 		evening set	14595 Jul 18 22:47	19°  13'31'59	
direct	14589 Oct 11 22:56	29°  22'44'40		max. Earth dist.	14595 Jul 29 16:46	22°  13'01'31	6.14663 AU
	14589 Oct 24 15:16	0° 					
evening set	14590 Feb 14 12:06	17°  13'36'15		conjunction	14595 Jul 31 20:51	22°  13'48	-0°34'01
				minimum elong	14595 Jul 31 20:51	22°  13'48	0°34'44
conjunction	14590 Feb 27 20:08	20°  13'31'08	0°30'06	morning rise	14595 Aug 13 18:54	25°  13'32'00	
minimum elong	14590 Feb 27 20:09	20°  13'31'09	0°30'22		14595 Sep 02 09:49	0° 	
max. Earth dist.	14590 Mar 01 07:16	20°  13'50'21	6.37225 AU	retrograde	14595 Dec 19 04:05	14°  13'40'51	
morning rise	14590 Mar 13 03:19	23°  13'25'22		opposition	14596 Feb 17 03:46	9°  13'45'27	-0°48'33
	14590 Apr 13 14:00	0° 		min. Earth dist.	14596 Feb 18 09:18	9°  13'35'45	4.05929 AU
retrograde	14590 Jul 13 19:32	10°  13'41'41		direct	14596 Apr 17 02:45	4°  13'47'39	
opposition	14590 Sep 12 16:29	5°  13'42'45	0°36'06	evening set	14596 Aug 21 19:42	24°  13'47'20'09	
min. Earth dist.	14590 Sep 12 01:39	5°  13'47'36	4.43626 AU				
direct	14590 Nov 13 03:37	0° 		conjunction	14596 Sep 03 21:52	27°  13'29'06	-0°27'42
evening set	14591 Mar 18 01:36	17°  13'57'19		minimum elong	14596 Sep 03 21:53	27°  13'29'07	0°27'51
				max. Earth dist.	14596 Sep 02 15:41	27°  13'10'54	5.98416 AU
conjunction	14591 Mar 31 05:37	20°  13'46'18	0°17'59		14596 Sep 14 08:20	0° 	
minimum elong	14591 Mar 31 05:37	20°  13'46'18	0°17'42	morning rise	14596 Sep 17 01:16	0°  13'45'57	
max. Earth dist.	14591 Mar 31 12:17	20°  13'49'51	6.48308 AU	retrograde	14597 Jan 25 08:35	20°  13'45'58'15	
morning rise	14591 Apr 13 08:08	23°  13'34'28		opposition	14597 Mar 25 18:49	16°  13'40'34	-0°30'10
	14591 May 14 16:37	0° 		min. Earth dist.	14597 Mar 26 03:00	15°  13'47'50	3.92693 AU
retrograde	14591 Aug 12 12:02	10°  13'16'09		direct	14597 May 23 12:27	11°  13'40'43'7	
opposition	14591 Oct 12 15:15	5°  13'19'57	0°14'18		14597 Sep 22 15:49	0° 	
min. Earth dist.	14591 Oct 12 20:35	5°  13'18'14	4.50886 AU	evening set	14597 Sep 27 23:10	1°  13'17'21	
direct	14591 Dec 13 21:52	0° 					
	14592 Apr 05 07:20	15° 		conjunction	14597 Oct 11 07:10	4°  13'33'16	-0°10'24
evening set	14592 Apr 16 10:17	17°  13'18'20'04		minimum elong	14597 Oct 11 07:10	4°  13'33'16	0°09'53
				behind sun begin	14597 Oct 11 00:25	4°  13'29'09	
conjunction	14592 Apr 29 10:29	20°  13'06'26	0°01'23	behind sun end	14597 Oct 11 13:55	4°  13'37'24	
minimum elong	14592 Apr 29 10:29	20°  13'06'26	0°00'40	max. Earth dist.	14597 Oct 11 14:34	4°  13'37'48	5.89577 AU
behind sun begin	14592 Apr 29 02:28	20°  13'02'10		morning rise	14597 Oct 24 16:44	7°  13'50'12	
behind sun end	14592 Apr 29 18:30	20°  13'10'42			14597 Nov 24 00:26	15° 	
max. Earth dist.	14592 Apr 28 12:16	19°  13'54'35	6.51262 AU	retrograde	14598 Mar 05 09:42	28°  13'43'20	
morning rise	14592 May 12 09:11	22°  13'52'06		asc. node	14598 Apr 16 09:57	25°  13'56'37	
desc. node	14592 May 31 03:39	26°  13'46'58		opposition	14598 May 03 13:07	23°  13'42'48	0°01'30
	14592 Jun 16 11:29	0° 		min. Earth dist.	14598 May 02 20:13	23°  13'48'30	3.89382 AU
retrograde	14592 Sep 10 06:38	9°  13'28'56		direct	14598 Jun 30 15:16	18°  13'47'28	
opposition	14592 Nov 10 11:29	4°  13'34'28	-0°10'51		14598 Sep 27 06:19	0° 	
min. Earth dist.	14592 Nov 11 10:48	4°  13'27'00	4.49444 AU	evening set	14598 Nov 05 07:02	9°  13'27'01'53	
	14592 Dec 25 22:53	30°  13'R 					
direct	14593 Jan 11 23:49	29°  13'33'47		conjunction	14598 Nov 18 19:14	12°  13'27'18'40	0°11'27
	14593 Jan 29 02:33	0° 		minimum elong	14598 Nov 18 19:14	12°  13'27'18'39	0°12'25
evening set	14593 May 16 12:50	16°  13'22'44'24		behind sun begin	14598 Nov 18 13:47	12°  13'27'15'22	
max. Earth dist.	14593 May 27 15:04	19°  13'22'08'17	6.45460 AU	behind sun end	14598 Nov 19 00:40	12°  13'27'21'57	
				max. Earth dist.	14598 Nov 20 13:19	12°  13'27'44'14	5.92109 AU
conjunction	14593 May 29 10:28	19°  13'23'14'49	-0°15'39	morning rise	14598 Dec 02 09:14	15°  13'27'36'11	
minimum elong	14593 May 29 10:27	19°  13'23'14'49	0°16'39		14599 Feb 07 04:34	0° 	
morning rise	14593 Jun 11 06:28	22°  13'22'18'42		retrograde	14599 Apr 12 01:50	6°  13'20'55'56	
	14593 Jul 18 14:58	0° 		min. Earth dist.	14599 Jun 08 23:31	1°  13'20'15'07	3.97501 AU
retrograde	14593 Oct 11 05:16	9°  13'20'53		opposition	14599 Jun 10 11:06	1°  13'20'03'03	0°32'06

	14599 Jun 18 06:48	30°R♄	
direct	14599 Aug 07 17:54	26°♄06'32	
	14599 Sep 26 11:54	0°♄	
evening set	14599 Dec 13 00:26	15°♄43'05	
conjunction	14599 Dec 26 13:40	18°♄54'12	0°28'09
minimum elong	14599 Dec 26 13:39	18°♄54'12	0°29'10
max. Earth dist.	14599 Dec 29 00:27	19°♄28'48	6.04887 AU
morning rise	14600 Jan 09 03:53	22°♄05'29	
	14600 Feb 13 13:02	0°♄	
retrograde	14600 May 17 05:08	11°♄29'24	
min. Earth dist.	14600 Jul 14 11:25	6°♄39'02	4.13453 AU
opposition	14600 Jul 16 01:32	6°♄26'12	0°48'42
direct	14600 Sep 13 08:37	1°♄27'51	
	14600 Dec 25 11:09	15°♄	
evening set	14601 Jan 17 17:33	20°♄07'22	
conjunction	14601 Jan 31 04:49	23°♄09'42	0°33'58
minimum elong	14601 Jan 31 04:49	23°♄09'42	0°34'40
max. Earth dist.	14601 Feb 02 11:21	23°♄40'30	6.22513 AU
morning rise	14601 Feb 13 15:52	26°♄11'37	
	14601 Mar 02 22:41	0°♄	
retrograde	14601 Jun 18 14:08	14°♄20'46	
min. Earth dist.	14601 Aug 16 18:57	9°♄29'16	4.31109 AU
opposition	14601 Aug 18 00:48	9°♄19'23	0°47'55
direct	14601 Oct 17 12:25	4°♄19'44	