

superior conj	10600 Jan 05 01:42	20° Z 54'37	1°11'14	morning set	10600 Dec 12 07:29	19° X 30'18	
minimum elong	10600 Jan 05 04:42	21° Z 09'14	1°11'23		10600 Dec 17 08:45	0° Z	
	10600 Jan 09 20:03	0° \approx					
max. Earth dist.	10600 Jan 11 13:30	3° \approx 11'08	1.38108 AU	superior conj	10600 Dec 19 18:23	4° Z 56'36	1°27'54
desc. node	10600 Jan 14 22:29	9° \approx 14'04		minimum elong	10600 Dec 19 20:37	5° Z 07'56	1°28'15
evening rise	10600 Jan 15 07:12	9° \approx 52'16		max. Earth dist.	10600 Dec 24 21:34	15° Z 10'11	1.36010 AU
	10600 Jan 27 14:06	0° X		evening rise	10600 Dec 28 19:34	22° Z 35'00	
	10600 Feb 19 11:58	0° Y		desc. node	10601 Jan 01 19:23	29° Z 46'19	
evening max el	10600 Feb 19 18:04	0° Y 15'07	25°01'22		10601 Jan 01 22:31	0° \approx	
retrograde	10600 Mar 03 15:50	7° Y 10'20			10601 Jan 21 08:34	0° X	
evening set	10600 Mar 09 08:32	4° Y 48'09		evening max el	10601 Feb 02 07:35	14° X 04'05	26°09'45
asc. node	10600 Mar 10 04:15	4° Y 03'24		retrograde	10601 Feb 15 01:10	21° X 18'09	
	10600 Mar 13 16:12	30° R X		evening set	10601 Feb 21 05:40	18° X 47'45	
min. Earth dist.	10600 Mar 13 19:43	29° X 48'34	0.67901 AU	asc. node	10601 Feb 25 01:30	14° X 49'56	
inferior conj	10600 Mar 14 23:13	28° X 18'15	1°29'15	min. Earth dist.	10601 Feb 25 10:28	14° X 22'50	0.66915 AU
minimum elong	10600 Mar 14 21:21	28° X 24'24	1°28'39	inferior conj	10601 Feb 27 01:46	12° X 21'29	0°38'59
morning rise	10600 Mar 20 10:26	22° X 22'06		minimum elong	10601 Feb 27 00:47	12° X 24'32	0°38'48
direct	10600 Mar 24 01:22	21° X 06'41		morning rise	10601 Mar 04 20:37	6° X 34'56	
morning max el	10600 Mar 31 06:05	25° X 05'40	19°30'30	direct	10601 Mar 08 00:27	5° X 38'14	
	10600 Apr 04 13:27	0° Y		morning max el	10601 Mar 14 15:39	9° X 12'54	18°39'49
desc. node	10600 Apr 12 23:18	11° Y 42'32			10601 Mar 29 16:19	0° Y	
greatest brilliancy	10600 Apr 12 22:43	11° Y 40'23	-0.7m	desc. node	10601 Mar 30 20:03	1° Y 47'59	
morning set	10600 Apr 25 09:56	0° B 33'55		morning set	10601 Apr 04 23:49	9° Y 52'25	
	10600 Apr 25 01:07	0° B			10601 Apr 17 20:24	0° B	
max. Earth dist.	10600 May 07 15:53	19° B 38'50	1.44848 AU	max. Earth dist.	10601 Apr 20 09:52	4° B 00'22	1.45580 AU
superior conj	10600 May 11 19:48	26° B 15'49	-2°13'03	superior conj	10601 Apr 21 05:22	5° B 16'40	-2°01'39
minimum elong	10600 May 11 19:24	26° B 14'16	2°13'29	minimum elong	10601 Apr 20 21:51	4° B 47'16	2°01'29
	10600 May 14 03:37	0° II		evening rise	10601 May 06 16:49	29° B 44'22	
evening rise	10600 May 25 19:41	19° II 12'11			10601 May 06 20:44	0° II	
	10600 Jun 01 06:51	0° B		greatest brilliancy	10601 May 14 07:03	11° II 51'45	-0.9m
asc. node	10600 Jun 06 02:23	7° B 43'49		asc. node	10601 May 23 23:30	26° II 19'35	
evening max el	10600 Jun 13 10:02	17° B 21'08	18°14'12		10601 May 27 00:06	0° B	
retrograde	10600 Jun 19 18:50	20° B 43'28		evening max el	10601 May 27 21:59	0° B 57'16	18°42'02
evening set	10600 Jun 22 17:15	19° B 57'20		retrograde	10601 Jun 03 12:04	4° B 33'28	
inferior conj	10600 Jun 28 16:56	14° B 35'32	2°47'29	evening set	10601 Jun 06 18:33	3° B 32'22	
minimum elong	10600 Jun 28 19:14	14° B 29'01	2°46'29		10601 Jun 10 15:32	30° R II	
min. Earth dist.	10600 Jul 01 05:51	11° B 44'56	0.63711 AU	inferior conj	10601 Jun 12 09:30	27° II 54'13	3°10'28
morning rise	10600 Jul 04 19:45	8° B 20'32		minimum elong	10601 Jun 12 10:44	27° II 50'23	3°09'49
desc. node	10600 Jul 09 23:08	5° B 51'55		min. Earth dist.	10601 Jun 14 07:29	25° II 32'55	0.65572 AU
direct	10600 Jul 11 12:26	5° B 43'50		morning rise	10601 Jun 18 02:09	21° II 34'04	
morning max el	10600 Jul 25 09:07	13° B 46'19	27°41'39	direct	10601 Jun 24 13:31	18° II 50'08	
	10600 Aug 07 11:09	0° Q		desc. node	10601 Jun 26 20:14	19° II 07'57	
	10600 Aug 25 12:06	0° P		morning max el	10601 Jul 07 19:41	26° II 40'49	26°53'50
morning set	10600 Aug 29 05:20	7° P 13'27			10601 Jul 10 21:46	0° B	
asc. node	10600 Sep 02 02:22	15° P 08'07			10601 Aug 01 02:06	0° Q	
max. Earth dist.	10600 Sep 03 03:46	17° P 21'19	1.32619 AU	morning set	10601 Aug 12 13:32	20° Q 26'39	
				max. Earth dist.	10601 Aug 16 19:23	28° Q 46'28	1.33969 AU
					10601 Aug 17 09:58	0° P	
superior conj	10600 Sep 06 03:04	23° P 41'55	0°39'02	asc. node	10601 Aug 19 23:11	5° P 13'37	
minimum elong	10600 Sep 06 01:20	23° P 32'36	0°38'35				
	10600 Sep 09 00:46	0° Q		superior conj	10601 Aug 21 04:08	7° P 44'22	0°11'52
evening rise	10600 Sep 13 01:53	8° Q 45'13		minimum elong	10601 Aug 21 03:31	7° P 41'10	0°11'29
	10600 Sep 24 00:22	0° M		behind sun begin	10601 Aug 20 23:30	7° P 20'07	
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evening max el	10600 Oct 05 20:55	15° M 51'37	23°07'44	evening rise	10601 Aug 28 12:09	23° P 15'32	
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evening set	10600 Oct 23 05:59	21° M 54'17		evening max el	10601 Sep 17 12:17	26° Q 05'30	21°30'27
min. Earth dist.	10600 Oct 30 06:15	18° M 40'25	0.55249 AU		10601 Sep 22 10:34	0° M	
inferior conj	10600 Oct 31 18:44	17° M 47'37	-5°44'40	desc. node	10601 Sep 22 18:09	0° M 11'04	
minimum elong	10600 Oct 31 16:46	17° M 50'28	5°44'13	retrograde	10601 Sep 29 17:41	2° M 09'51	
morning rise	10600 Nov 09 05:17	13° M 57'15		evening set	10601 Oct 02 10:17	1° M 53'19	
direct	10600 Nov 12 05:17	13° M 35'54			10601 Oct 07 16:16	30° R Q	
morning max el	10600 Nov 23 06:28	18° M 49'13	20°40'27	inferior conj	10601 Oct 11 12:00	27° Q 57'11	-5°02'24
asc. node	10600 Nov 29 02:49	25° M 43'16		minimum elong	10601 Oct 11 03:04	28° Q 09'40	5°00'20
	10600 Dec 01 22:49	0° X					





































































































































min. Earth dist.	10601 Oct 11 13:24	27° Ω 55'13	0.54622 AU	minimum elong	10602 Sep 20 21:37	8° Ω 16'32	3°26'38
morning rise	10601 Oct 19 20:47	24° Ω 07'59		min. Earth dist.	10602 Sep 22 22:24	7° Ω 03'54	0.54933 AU
direct	10601 Oct 23 14:25	23° Ω 37'47		morning rise	10602 Sep 29 12:22	3° Ω 53'54	
morning max el	10601 Nov 05 02:35	29° Ω 34'53	22°17'00	direct	10602 Oct 04 00:47	3° Ω 09'46	
	10601 Nov 05 13:07	0° \mathbb{M}		morning max el	10602 Oct 17 14:55	9° Ω 48'36	24°04'10
asc. node	10601 Nov 15 23:45	13° \mathbb{M} 43'14			10602 Nov 01 12:14	0° \mathbb{M}	
	10601 Nov 24 16:37	0° \mathbb{A}		asc. node	10602 Nov 02 20:39	2° \mathbb{M} 24'19	
morning set	10601 Nov 26 18:02	4° \mathbb{A} 17'27		morning set	10602 Nov 11 05:52	19° \mathbb{M} 05'44	
					10602 Nov 16 06:27	0° \mathbb{A}	
superior conj	10601 Dec 03 19:39	19° \mathbb{A} 21'29	1°37'12	superior conj	10602 Nov 18 02:40	4° \mathbb{A} 01'12	1°39'49
minimum elong	10601 Dec 03 20:44	19° \mathbb{A} 27'11	1°37'40	minimum elong	10602 Nov 18 02:33	4° \mathbb{A} 00'34	1°40'16
max. Earth dist.	10601 Dec 07 12:19	27° \mathbb{A} 03'49	1.34211 AU	max. Earth dist.	10602 Nov 20 11:04	9° \mathbb{A} 05'47	1.32828 AU
	10601 Dec 08 22:59	0° \mathbb{B}		evening rise	10602 Nov 25 14:21	19° \mathbb{A} 48'16	
evening rise	10601 Dec 11 23:07	5° \mathbb{B} 56'35			10602 Nov 30 20:18	0° \mathbb{B}	
desc. node	10601 Dec 19 16:21	20° \mathbb{B} 06'53		desc. node	10602 Dec 06 13:25	10° \mathbb{B} 10'07	
	10601 Dec 25 15:19	0° \approx			10602 Dec 19 17:31	0° \approx	
evening max el	10602 Jan 15 21:10	27° \approx 43'54	27°01'04	evening max el	10602 Dec 29 09:30	11° \approx 03'07	27°28'15
	10602 Jan 18 09:28	0° \mathbb{H}		retrograde	10603 Jan 12 01:33	18° \approx 25'03	
retrograde	10602 Jan 29 04:36	5° \mathbb{H} 05'51		evening set	10603 Jan 18 23:57	15° \approx 54'28	
evening set	10602 Feb 04 19:35	2° \mathbb{H} 32'01		min. Earth dist.	10603 Jan 22 18:49	12° \approx 35'03	0.63861 AU
	10602 Feb 07 13:38	30° \mathbb{R} \approx		inferior conj	10603 Jan 25 09:18	9° \approx 54'12	-1°28'12
min. Earth dist.	10602 Feb 08 18:51	28° \approx 41'04	0.65558 AU	minimum elong	10603 Jan 25 12:06	9° \approx 46'57	1°26'36
inferior conj	10602 Feb 10 22:00	26° \approx 15'31	-0°20'26	asc. node	10603 Jan 29 19:56	5° \approx 50'50	
minimum elong	10602 Feb 10 22:34	26° \approx 13'52	0°19'50	morning rise	10603 Feb 01 02:16	4° \approx 34'33	
asc. node	10602 Feb 11 22:45	25° \approx 05'43		direct	10603 Feb 03 12:42	4° \approx 05'10	
morning rise	10602 Feb 17 02:52	20° \approx 41'01		morning max el	10603 Feb 10 00:06	7° \approx 26'00	17°48'50
direct	10602 Feb 19 21:07	19° \approx 59'47			10603 Feb 25 02:10	0° \mathbb{H}	
morning max el	10602 Feb 26 06:34	23° \approx 22'07	18°05'45	morning set	10603 Feb 26 15:31	2° \mathbb{H} 39'20	
	10602 Mar 03 16:17	0° \mathbb{H}		desc. node	10603 Mar 04 13:32	12° \mathbb{H} 40'57	
morning set	10602 Mar 16 17:49	20° \mathbb{H} 35'34					
desc. node	10602 Mar 17 16:46	22° \mathbb{H} 08'57		superior conj	10603 Mar 11 12:45	24° \mathbb{H} 11'02	-0°50'29
	10602 Mar 22 13:10	0° \mathbb{Y}		minimum elong	10603 Mar 11 07:19	23° \mathbb{H} 48'56	0°49'37
superior conj	10602 Mar 31 13:06	14° \mathbb{Y} 19'12	-1°31'27		10603 Mar 15 03:25	0° \mathbb{Y}	
minimum elong	10602 Mar 31 03:49	13° \mathbb{Y} 42'37	1°30'31	max. Earth dist.	10603 Mar 17 01:10	3° \mathbb{Y} 02'04	1.44821 AU
max. Earth dist.	10602 Apr 03 06:04	18° \mathbb{Y} 34'18	1.45568 AU	evening rise	10603 Mar 27 03:59	18° \mathbb{Y} 47'50	
	10602 Apr 10 13:59	0° \mathbb{B}			10603 Apr 03 13:04	0° \mathbb{B}	
evening rise	10602 Apr 16 16:08	9° \mathbb{B} 26'25		evening max el	10603 Apr 24 08:02	28° \mathbb{B} 20'36	20°26'34
greatest brilliancy	10602 Apr 29 09:50	28° \mathbb{B} 57'08	-0.7m		10603 Apr 26 02:16	0° \mathbb{I}	
	10602 Apr 30 02:43	0° \mathbb{I}		asc. node	10603 Apr 27 17:52	1° \mathbb{I} 17'14	
asc. node	10602 May 10 20:40	14° \mathbb{I} 14'52		retrograde	10603 May 02 08:09	2° \mathbb{I} 59'26	
evening max el	10602 May 11 05:46	14° \mathbb{I} 38'11	19°26'48	evening set	10603 May 06 08:25	1° \mathbb{I} 27'00	
retrograde	10602 May 18 09:22	18° \mathbb{I} 40'39			10603 May 07 22:30	30° \mathbb{R} \mathbb{B}	
evening set	10602 May 22 00:22	17° \mathbb{I} 23'57		inferior conj	10603 May 11 15:27	25° \mathbb{B} 20'53	3°12'24
inferior conj	10602 May 27 09:55	11° \mathbb{I} 30'56	3°17'50	minimum elong	10603 May 11 14:28	25° \mathbb{B} 24'13	3°11'54
minimum elong	10602 May 27 09:59	11° \mathbb{I} 30'44	3°17'21	min. Earth dist.	10603 May 12 08:17	24° \mathbb{B} 23'08	0.68010 AU
min. Earth dist.	10602 May 28 16:54	9° \mathbb{I} 49'06	0.67017 AU	morning rise	10603 May 16 20:16	19° \mathbb{B} 02'46	
morning rise	10602 Jun 01 19:12	5° \mathbb{I} 10'20		direct	10603 May 22 09:53	16° \mathbb{B} 34'25	
direct	10602 Jun 07 20:57	2° \mathbb{I} 29'57		desc. node	10603 May 31 14:14	21° \mathbb{B} 19'46	
desc. node	10602 Jun 13 17:15	4° \mathbb{I} 27'02		morning max el	10603 Jun 02 15:51	23° \mathbb{B} 18'44	24°16'31
morning max el	10602 Jun 20 06:09	9° \mathbb{I} 54'39	25°42'15		10603 Jun 08 13:46	0° \mathbb{I}	
	10602 Jul 06 03:13	0° \mathbb{E}			10603 Jun 29 11:56	0° \mathbb{E}	
	10602 Jul 24 16:06	0° \mathbb{Q}		morning set	10603 Jul 08 06:54	14° \mathbb{E} 37'15	
morning set	10602 Jul 26 07:39	2° \mathbb{Q} 58'47		max. Earth dist.	10603 Jul 11 22:59	21° \mathbb{E} 05'45	1.37941 AU
max. Earth dist.	10602 Jul 30 00:55	9° \mathbb{Q} 54'36	1.35782 AU		10603 Jul 16 19:15	0° \mathbb{Q}	
superior conj	10602 Aug 04 20:53	21° \mathbb{Q} 19'54	-0°19'04	superior conj	10603 Jul 19 01:56	4° \mathbb{Q} 19'32	-0°52'12
minimum elong	10602 Aug 04 22:03	21° \mathbb{Q} 25'47	0°19'13	minimum elong	10603 Jul 19 05:23	4° \mathbb{Q} 36'08	0°52'04
asc. node	10602 Aug 06 20:03	25° \mathbb{Q} 18'44		asc. node	10603 Jul 24 16:56	15° \mathbb{Q} 19'04	
	10602 Aug 09 02:56	0° \mathbb{P}		evening rise	10603 Jul 27 20:21	21° \mathbb{Q} 33'06	
evening rise	10602 Aug 12 19:10	7° \mathbb{P} 34'03			10603 Aug 01 04:31	0° \mathbb{P}	
	10602 Aug 25 01:40	0° \mathbb{A}		evening max el	10603 Aug 13 09:00	18° \mathbb{P} 31'11	19°07'08
evening max el	10602 Aug 30 15:50	6° \mathbb{A} 55'00	20°08'28	retrograde	10603 Aug 22 08:34	22° \mathbb{P} 59'27	
desc. node	10602 Sep 09 15:27	12° \mathbb{A} 10'43		evening set	10603 Aug 24 05:09	22° \mathbb{P} 48'46	
retrograde	10602 Sep 10 07:00	12° \mathbb{A} 11'50		desc. node	10603 Aug 27 12:45	21° \mathbb{P} 41'41	
evening set	10602 Sep 12 05:50	12° \mathbb{A} 01'57		inferior conj	10603 Sep 01 15:57	18° \mathbb{P} 36'04	-1°35'56
inferior conj	10602 Sep 21 06:37	8° \mathbb{A} 03'07	-3°29'41	minimum elong	10603 Sep 01 11:45	18° \mathbb{P} 43'12	1°34'26

min. Earth dist.	10603 Sep 04 11:34	16° \mathbb{M} 41'27	0.56142 AU	minimum elong	10604 Aug 12 22:50	29° \mathcal{Q} 51'22	0°08'20
morning rise	10603 Sep 09 15:20	13° \mathbb{M} 51'30		transit middle	10604 Aug 12 22:50	29° \mathcal{Q} 51'22	0°08'20
direct	10603 Sep 14 23:09	12° \mathbb{M} 45'27		transit begin	10604 Aug 12 19:47	29° \mathcal{Q} 57'26	
morning max el	10603 Sep 29 03:12	19° \mathbb{M} 59'16	25°45'44	transit end	10604 Aug 13 01:52	29° \mathcal{Q} 45'17	
	10603 Oct 07 16:40	0° \mathcal{L}			10604 Aug 12 18:29	30° \mathcal{R} \mathcal{Q}	
asc. node	10603 Oct 20 17:31	21° \mathcal{L} 35'29		desc. node	10604 Aug 13 10:00	29° \mathcal{Q} 29'01	
	10603 Oct 24 21:47	0° \mathbb{M}		min. Earth dist.	10604 Aug 16 06:24	27° \mathcal{Q} 14'04	0.58025 AU
morning set	10603 Oct 26 17:10	3° \mathbb{M} 49'11		morning rise	10604 Aug 20 11:11	24° \mathcal{Q} 30'48	
				direct	10604 Aug 26 12:22	22° \mathcal{Q} 56'17	
superior conj	10603 Nov 02 13:01	18° \mathbb{M} 47'41	1°36'17		10604 Sep 09 06:12	0° \mathbb{M}	
minimum elong	10603 Nov 02 11:52	18° \mathbb{M} 41'19	1°36'36	morning max el	10604 Sep 09 20:51	0° \mathbb{M} 35'06	27°04'34
max. Earth dist.	10603 Nov 03 16:15	21° \mathbb{M} 18'04	1.31912 AU		10604 Sep 30 18:15	0° \mathcal{L}	
	10603 Nov 07 16:20	0° \mathcal{X}		asc. node	10604 Oct 06 14:20	11° \mathcal{L} 08'49	
evening rise	10603 Nov 09 14:05	4° \mathcal{X} 01'11		morning set	10604 Oct 10 02:18	18° \mathcal{L} 23'18	
desc. node	10603 Nov 23 10:31	29° \mathcal{X} 47'40			10604 Oct 15 10:06	0° \mathbb{M}	
	10603 Nov 23 13:33	0° \mathcal{Z}					
evening max el	10603 Dec 11 18:34	23° \mathcal{Z} 48'42	27°25'19	superior conj	10604 Oct 17 00:44	3° \mathbb{M} 34'58	1°27'04
	10603 Dec 20 14:20	0° \approx		minimum elong	10604 Oct 16 22:51	3° \mathbb{M} 24'27	1°27'08
retrograde	10603 Dec 25 15:18	1° \approx 05'25		max. Earth dist.	10604 Oct 17 01:06	3° \mathbb{M} 37'02	1.31480 AU
	10603 Dec 30 10:59	30° \mathcal{R} \mathcal{Z}		evening rise	10604 Oct 23 19:47	18° \mathbb{M} 28'41	
evening set	10604 Jan 01 15:43	28° \mathcal{Z} 47'02			10604 Oct 29 11:28	0° \mathcal{X}	
min. Earth dist.	10604 Jan 05 08:48	25° \mathcal{Z} 53'30	0.61889 AU	desc. node	10604 Nov 09 07:39	18° \mathcal{X} 49'30	
inferior conj	10604 Jan 08 08:36	23° \mathcal{Z} 09'13	-2°42'17		10604 Nov 17 11:48	0° \mathcal{Z}	
minimum elong	10604 Jan 08 14:02	22° \mathcal{Z} 56'44	2°39'43	evening max el	10604 Nov 22 21:56	5° \mathcal{Z} 49'42	26°48'26
morning rise	10604 Jan 15 14:55	18° \mathcal{Z} 07'26		retrograde	10604 Dec 06 20:23	12° \mathcal{Z} 58'21	
asc. node	10604 Jan 16 17:05	17° \mathcal{Z} 51'41		evening set	10604 Dec 13 15:01	11° \mathcal{Z} 02'01	
direct	10604 Jan 17 19:54	17° \mathcal{Z} 46'09		min. Earth dist.	10604 Dec 17 12:14	8° \mathcal{Z} 24'13	0.59777 AU
morning max el	10604 Jan 24 16:58	21° \mathcal{Z} 15'20	17°49'45	inferior conj	10604 Dec 20 16:26	5° \mathcal{Z} 51'42	-3°57'34
	10604 Jan 31 08:12	0° \approx		minimum elong	10604 Dec 21 00:03	5° \mathcal{Z} 36'23	3°54'39
morning set	10604 Feb 09 10:54	15° \approx 44'33		morning rise	10604 Dec 28 11:47	1° \mathcal{Z} 10'27	
	10604 Feb 17 12:02	0° \mathcal{H}		direct	10604 Dec 30 14:46	0° \mathcal{Z} 53'40	
desc. node	10604 Feb 19 10:19	3° \mathcal{H} 19'41		asc. node	10605 Jan 02 14:12	1° \mathcal{Z} 28'14	
				morning max el	10605 Jan 07 05:39	4° \mathcal{Z} 40'23	18°09'42
superior conj	10604 Feb 20 12:50	5° \mathcal{H} 12'58	-0°08'23	morning set	10605 Jan 22 21:45	29° \mathcal{Z} 32'31	
minimum elong	10604 Feb 20 12:04	5° \mathcal{H} 09'43	0°08'00		10605 Jan 23 03:36	0° \approx	
behind sun begin	10604 Feb 20 04:30	4° \mathcal{H} 37'29					
behind sun end	10604 Feb 20 19:38	5° \mathcal{H} 41'53		superior conj	10605 Feb 01 12:45	17° \approx 21'40	0°28'41
max. Earth dist.	10604 Feb 27 16:39	17° \mathcal{H} 07'12	1.43424 AU	minimum elong	10605 Feb 01 14:53	17° \approx 31'14	0°28'46
evening rise	10604 Mar 05 19:43	28° \mathcal{H} 27'22		desc. node	10605 Feb 05 07:05	24° \approx 01'18	
	10604 Mar 06 19:33	0° \mathcal{Y}			10605 Feb 08 18:42	0° \mathcal{H}	
	10604 Mar 27 06:40	0° \mathcal{B}		max. Earth dist.	10605 Feb 09 03:39	0° \mathcal{H} 37'46	1.41540 AU
evening max el	10604 Apr 06 04:48	12° \mathcal{B} 04'33	21°38'15	evening rise	10605 Feb 14 03:46	8° \mathcal{H} 53'29	
asc. node	10604 Apr 13 15:04	17° \mathcal{B} 12'05			10605 Feb 27 21:27	0° \mathcal{Y}	
retrograde	10604 Apr 15 06:24	17° \mathcal{B} 25'14		evening max el	10605 Mar 19 21:16	25° \mathcal{Y} 50'33	22°57'10
evening set	10604 Apr 19 16:55	15° \mathcal{B} 37'26			10605 Mar 24 19:24	0° \mathcal{B}	
inferior conj	10604 Apr 24 23:47	9° \mathcal{B} 20'30	2°56'02	retrograde	10605 Mar 30 02:25	1° \mathcal{B} 52'49	
minimum elong	10604 Apr 24 22:03	9° \mathcal{B} 26'32	2°55'25	asc. node	10605 Mar 31 12:18	1° \mathcal{B} 43'12	
min. Earth dist.	10604 Apr 25 03:30	9° \mathcal{B} 07'31	0.68545 AU		10605 Apr 03 19:33	30° \mathcal{R} \mathcal{Y}	
morning rise	10604 Apr 30 02:58	3° \mathcal{B} 06'44		evening set	10605 Apr 04 00:13	29° \mathcal{Y} 50'18	
direct	10604 May 05 03:21	0° \mathcal{B} 56'19		inferior conj	10605 Apr 09 08:54	23° \mathcal{Y} 25'25	2°29'44
morning max el	10604 May 15 02:22	6° \mathcal{B} 50'00	22°46'38	minimum elong	10605 Apr 09 06:45	23° \mathcal{Y} 32'51	2°29'01
desc. node	10604 May 17 11:10	9° \mathcal{B} 21'22		min. Earth dist.	10605 Apr 09 00:12	23° \mathcal{Y} 55'32	0.68635 AU
	10604 Jun 02 01:10	0° \mathbb{I}		morning rise	10605 Apr 14 13:10	17° \mathcal{Y} 17'33	
morning set	10604 Jun 18 06:11	25° \mathbb{I} 09'23		direct	10605 Apr 19 00:08	15° \mathcal{Y} 28'14	
	10604 Jun 21 03:59	0° \mathcal{E}		morning max el	10605 Apr 27 16:57	20° \mathcal{Y} 30'08	21°21'18
max. Earth dist.	10604 Jun 22 20:07	2° \mathcal{E} 50'09	1.40234 AU	desc. node	10605 May 04 08:00	28° \mathcal{Y} 12'24	
					10605 May 05 16:59	0° \mathcal{B}	
superior conj	10604 Jun 30 15:13	16° \mathcal{E} 34'14	-1°24'54		10605 May 26 06:08	0° \mathbb{I}	
minimum elong	10604 Jun 30 20:53	17° \mathcal{E} 00'00	1°24'38	morning set	10605 May 29 02:51	4° \mathbb{I} 29'01	
	10604 Jul 07 20:22	0° \mathcal{Q}		max. Earth dist.	10605 Jun 04 22:36	15° \mathbb{I} 27'37	1.42385 AU
evening rise	10604 Jul 10 12:31	5° \mathcal{Q} 04'36					
asc. node	10604 Jul 10 13:51	5° \mathcal{Q} 10'54		superior conj	10605 Jun 12 08:06	27° \mathbb{I} 53'02	-1°52'58
	10604 Jul 25 17:28	0° \mathbb{M}		minimum elong	10605 Jun 12 14:28	28° \mathbb{I} 20'28	1°52'57
evening max el	10604 Jul 26 12:58	0° \mathbb{M} 50'32	18°26'59		10605 Jun 13 13:30	0° \mathcal{E}	
retrograde	10604 Aug 03 04:38	4° \mathbb{M} 40'49		evening rise	10605 Jun 23 15:37	17° \mathcal{E} 57'54	
evening set	10604 Aug 05 06:55	4° \mathbb{M} 24'23		asc. node	10605 Jun 27 10:47	24° \mathcal{E} 49'09	
inferior conj	10604 Aug 12 22:31	29° \mathcal{Q} 51'59	0°08'46		10605 Jun 30 09:29	0° \mathcal{Q}	

evening max el	10605 Jul 09 23:38	13° Ω 42'34	18°07'01		10606 Jul 01 20:10	30° \mathbb{R} \mathfrak{S}	
retrograde	10605 Jul 16 18:44	17° Ω 10'13		evening set	10606 Jul 02 16:49	29° \mathfrak{S} 39'56	
evening set	10605 Jul 19 04:49	16° Ω 44'13		inferior conj	10606 Jul 08 23:12	24° \mathfrak{S} 27'48	2°25'38
inferior conj	10605 Jul 26 02:03	11° Ω 51'09	1°29'55	minimum elong	10606 Jul 09 01:54	24° \mathfrak{S} 20'39	2°24'27
minimum elong	10605 Jul 26 04:32	11° Ω 45'24	1°28'40	min. Earth dist.	10606 Jul 11 19:42	21° \mathfrak{S} 27'55	0.62500 AU
min. Earth dist.	10605 Jul 29 08:32	8° Ω 50'46	0.60249 AU	morning rise	10606 Jul 15 09:02	18° \mathfrak{S} 19'06	
desc. node	10605 Jul 31 07:15	7° Ω 14'25		desc. node	10606 Jul 18 04:26	16° \mathfrak{S} 41'15	
morning rise	10605 Aug 02 01:21	6° Ω 01'06		direct	10606 Jul 22 02:03	15° \mathfrak{S} 52'07	
direct	10605 Aug 08 14:03	3° Ω 57'35		morning max el	10606 Aug 05 04:15	23° \mathfrak{S} 54'20	27°54'59
morning max el	10605 Aug 22 21:32	11° Ω 52'11	27°49'04		10606 Aug 10 15:39	0° Ω	
	10605 Sep 06 04:01	0° \mathbb{M}			10606 Aug 30 12:23	0° \mathbb{M}	
	10605 Sep 22 23:55	0° \mathfrak{L}		morning set	10606 Sep 08 06:39	16° \mathbb{M} 43'00	
asc. node	10605 Sep 23 11:08	0° \mathfrak{L} 57'36		asc. node	10606 Sep 10 07:55	20° \mathbb{M} 56'28	
morning set	10605 Sep 24 07:29	2° \mathfrak{L} 43'09		max. Earth dist.	10606 Sep 13 15:13	27° \mathbb{M} 57'10	1.32080 AU
max. Earth dist.	10605 Sep 30 10:03	15° \mathfrak{L} 53'40	1.31532 AU		10606 Sep 14 13:56	0° \mathfrak{L}	
superior conj	10605 Oct 01 11:59	18° \mathfrak{L} 17'18	1°12'26	superior conj	10606 Sep 15 20:55	2° \mathfrak{L} 48'50	0°52'39
minimum elong	10605 Oct 01 09:45	18° \mathfrak{L} 04'55	1°12'15	minimum elong	10606 Sep 15 18:50	2° \mathfrak{L} 37'28	0°52'15
	10605 Oct 06 19:08	0° \mathbb{M}		evening rise	10606 Sep 22 16:31	17° \mathfrak{L} 42'45	
evening rise	10605 Oct 08 05:14	3° \mathbb{M} 04'35			10606 Sep 28 15:54	0° \mathbb{M}	
	10605 Oct 22 11:08	0° \mathfrak{M}		desc. node	10606 Oct 14 02:06	24° \mathbb{M} 04'58	
desc. node	10605 Oct 27 04:51	7° \mathfrak{M} 01'52		evening max el	10606 Oct 17 05:29	27° \mathbb{M} 23'54	24°05'41
evening max el	10605 Nov 04 17:24	16° \mathfrak{M} 59'38	25°38'54		10606 Oct 20 05:22	0° \mathfrak{M}	
retrograde	10605 Nov 18 14:46	23° \mathfrak{M} 59'57		retrograde	10606 Oct 30 21:03	4° \mathfrak{M} 13'42	
evening set	10605 Nov 24 17:15	22° \mathfrak{M} 33'46		evening set	10606 Nov 04 19:00	3° \mathfrak{M} 20'43	
min. Earth dist.	10605 Nov 29 05:49	19° \mathfrak{M} 56'45	0.57720 AU	min. Earth dist.	10606 Nov 10 16:07	0° \mathfrak{M} 25'41	0.55983 AU
inferior conj	10605 Dec 02 05:29	17° \mathfrak{M} 52'22	-5°03'34		10606 Nov 11 09:07	30° \mathbb{M}	
minimum elong	10605 Dec 02 12:58	17° \mathfrak{M} 39'18	5°01'31	inferior conj	10606 Nov 12 21:57	29° \mathbb{M} 03'35	-5°42'45
morning rise	10605 Dec 10 11:03	13° \mathfrak{M} 33'37		minimum elong	10606 Nov 13 00:40	28° \mathbb{M} 59'25	5°42'08
direct	10605 Dec 12 17:14	13° \mathfrak{M} 17'50		morning rise	10606 Nov 21 08:22	25° \mathbb{M} 05'44	
asc. node	10605 Dec 20 11:15	16° \mathfrak{M} 38'03		direct	10606 Nov 24 00:10	24° \mathbb{M} 47'30	
morning max el	10605 Dec 21 10:24	17° \mathfrak{M} 31'00	18°50'31	morning max el	10606 Dec 04 03:31	29° \mathbb{M} 36'12	19°53'53
	10605 Dec 30 10:25	0° \mathfrak{S}			10606 Dec 04 13:20	0° \mathfrak{M}	
morning set	10606 Jan 06 19:17	13° \mathfrak{S} 49'33		asc. node	10606 Dec 07 08:16	3° \mathfrak{M} 06'23	
				morning set	10606 Dec 21 23:53	28° \mathfrak{M} 24'03	
superior conj	10606 Jan 15 08:17	0° \approx 25'33	0°58'03		10606 Dec 22 18:46	0° \mathfrak{S}	
minimum elong	10606 Jan 15 11:21	0° \approx 40'08	0°58'07	superior conj	10606 Dec 29 18:29	14° \mathfrak{S} 10'03	1°19'15
	10606 Jan 15 02:53	0° \approx		minimum elong	10606 Dec 29 21:14	14° \mathfrak{S} 23'42	1°19'29
max. Earth dist.	10606 Jan 22 11:01	13° \approx 28'15	1.39380 AU	max. Earth dist.	10607 Jan 04 17:28	25° \mathfrak{S} 41'23	1.37188 AU
desc. node	10606 Jan 23 03:54	14° \approx 42'38			10607 Jan 07 01:27	0° \approx	
evening rise	10606 Jan 26 09:11	20° \approx 16'29		evening rise	10607 Jan 08 11:06	2° \approx 32'04	
	10606 Feb 01 06:38	0° \mathfrak{H}		desc. node	10607 Jan 10 00:46	5° \approx 19'18	
	10606 Feb 22 00:58	0° \mathbb{Y}			10607 Jan 25 09:00	0° \mathfrak{H}	
evening max el	10606 Mar 02 11:22	9° \mathbb{Y} 39'46	24°17'18	evening max el	10607 Feb 13 00:38	23° \mathfrak{H} 29'25	25°31'59
retrograde	10606 Mar 13 19:01	16° \mathbb{Y} 17'50			10607 Feb 22 05:07	0° \mathbb{Y}	
asc. node	10606 Mar 18 09:32	14° \mathbb{Y} 40'12		retrograde	10607 Feb 25 07:15	0° \mathbb{Y} 33'53	
evening set	10606 Mar 19 04:51	14° \mathbb{Y} 02'04			10607 Feb 28 04:46	30° \mathbb{R} \mathfrak{H}	
min. Earth dist.	10606 Mar 23 20:16	8° \mathbb{Y} 42'34	0.68294 AU	evening set	10607 Mar 03 05:13	28° \mathfrak{H} 07'25	
inferior conj	10606 Mar 24 16:58	7° \mathbb{Y} 32'53	1°54'02	asc. node	10607 Mar 05 06:48	26° \mathfrak{H} 06'33	
minimum elong	10606 Mar 24 14:51	7° \mathbb{Y} 40'02	1°53'19	min. Earth dist.	10607 Mar 07 13:29	23° \mathfrak{H} 22'57	0.67534 AU
morning rise	10606 Mar 30 00:56	1° \mathbb{Y} 32'11		inferior conj	10607 Mar 08 22:05	21° \mathfrak{H} 38'29	1°09'03
direct	10606 Apr 02 22:58	0° \mathbb{Y} 04'42		minimum elong	10607 Mar 08 20:31	21° \mathfrak{H} 43'32	1°08'35
morning max el	10606 Apr 10 14:41	4° \mathbb{Y} 22'48	20°06'53	morning rise	10607 Mar 14 12:17	15° \mathfrak{H} 46'28	
desc. node	10606 Apr 21 04:47	17° \mathbb{Y} 39'47		direct	10607 Mar 17 22:20	14° \mathfrak{H} 39'25	
	10606 Apr 29 15:01	0° \mathfrak{B}		morning max el	10607 Mar 24 20:18	18° \mathfrak{H} 26'15	19°07'00
morning set	10606 May 08 04:17	13° \mathfrak{B} 00'34			10607 Apr 02 23:22	0° \mathbb{Y}	
max. Earth dist.	10606 May 18 08:34	28° \mathfrak{B} 57'51	1.44122 AU	greatest brilliancy	10607 Apr 07 00:20	5° \mathbb{Y} 58'10	-0.7m
	10606 May 19 00:07	0° \mathbb{I}		desc. node	10607 Apr 08 01:32	7° \mathbb{Y} 33'13	
superior conj	10606 May 24 01:05	8° \mathbb{I} 09'28	-2°10'25	morning set	10607 Apr 17 07:03	21° \mathbb{Y} 43'31	
minimum elong	10606 May 24 04:28	8° \mathbb{I} 23'20	2°10'48		10607 Apr 22 15:08	0° \mathfrak{B}	
evening rise	10606 Jun 06 00:57	0° \mathfrak{S} 02'42		max. Earth dist.	10607 May 01 00:20	13° \mathfrak{B} 05'25	1.45246 AU
	10606 Jun 06 00:20	0° \mathfrak{S}		superior conj	10607 May 03 19:24	17° \mathfrak{B} 29'35	-2°10'45
asc. node	10606 Jun 14 07:47	14° \mathfrak{S} 08'48		minimum elong	10607 May 03 15:45	17° \mathfrak{B} 15'10	2°11'01
evening max el	10606 Jun 23 13:12	26° \mathfrak{S} 57'53	18°06'12		10607 May 11 15:27	0° \mathbb{I}	
	10606 Jun 28 01:42	0° Ω		evening rise	10607 May 18 12:01	11° \mathbb{I} 09'32	
retrograde	10606 Jun 29 22:53	0° Ω 18'13					

	10607 May 30 03:50	0°♄		minimum elong	10608 Apr 11 16:39	25°♄48'57	1°50'14
asc. node	10607 Jun 01 04:52	3°♄03'10		max. Earth dist.	10608 Apr 12 19:06	27°♄32'20	1.45659 AU
evening max el	10607 Jun 07 02:28	10°♄28'17	18°23'51		10608 Apr 14 08:54	0°♄	
retrograde	10607 Jun 13 12:33	13°♄55'17		evening rise	10608 Apr 27 23:06	21°♄17'32	
evening set	10607 Jun 16 14:18	13°♄02'58			10608 May 03 11:57	0°♄	
inferior conj	10607 Jun 22 09:48	7°♄33'48	2°59'21	greatest brilliancy	10608 May 07 23:29	6°♄59'06	-0.8m
minimum elong	10607 Jun 22 11:41	7°♄28'14	2°58'31	asc. node	10608 May 18 02:00	21°♄23'08	
min. Earth dist.	10607 Jun 24 16:24	4°♄54'04	0.64541 AU	evening max el	10608 May 20 12:48	24°♄06'42	18°59'09
morning rise	10607 Jun 28 07:57	1°♄15'37		retrograde	10608 May 27 07:54	27°♄53'03	
	10607 Jun 30 02:34	30°♄		evening set	10608 May 30 17:49	26°♄45'34	
direct	10607 Jul 04 22:47	28°♄34'40		inferior conj	10608 Jun 05 06:05	21°♄01'00	3°15'19
desc. node	10607 Jul 05 01:34	28°♄34'43		minimum elong	10608 Jun 05 06:49	20°♄58'40	3°14'45
	10607 Jul 10 05:23	0°♄		min. Earth dist.	10608 Jun 06 21:42	18°♄55'18	0.66232 AU
morning max el	10607 Jul 18 14:26	6°♄34'16	27°24'54	morning rise	10608 Jun 10 19:13	14°♄39'58	
	10607 Aug 05 13:23	0°♄		direct	10608 Jun 17 02:53	11°♄56'06	
morning set	10607 Aug 22 21:17	0°♄16'24		desc. node	10608 Jun 20 22:38	12°♄46'24	
	10607 Aug 22 17:56	0°♄		morning max el	10608 Jun 30 01:12	19°♄38'37	26°25'47
max. Earth dist.	10607 Aug 27 12:45	9°♄38'10	1.33132 AU		10608 Jul 08 21:04	0°♄	
asc. node	10607 Aug 28 04:43	11°♄01'05			10608 Jul 28 15:16	0°♄	
				morning set	10608 Aug 05 00:03	13°♄13'55	
superior conj	10607 Aug 31 01:33	17°♄04'10	0°28'03	max. Earth dist.	10608 Aug 08 23:46	20°♄53'30	1.34682 AU
minimum elong	10607 Aug 31 00:13	16°♄57'03	0°27'36				
	10607 Sep 06 01:53	0°♄		superior conj	10608 Aug 13 23:26	0°♄56'12	-0°00'52
evening rise	10607 Sep 07 03:45	2°♄17'55		minimum elong	10608 Aug 13 23:31	0°♄56'33	0°01'11
	10607 Sep 22 09:25	0°♄		behind sun begin	10608 Aug 13 17:38	0°♄26'18	
evening max el	10607 Sep 28 16:48	7°♄30'49	22°25'05	behind sun end	10608 Aug 14 05:23	1°♄26'52	
desc. node	10607 Sep 30 23:23	9°♄33'18			10608 Aug 13 12:30	0°♄	
retrograde	10607 Oct 11 15:35	13°♄57'43		asc. node	10608 Aug 14 01:34	1°♄07'07	
evening set	10607 Oct 15 01:42	13°♄31'53		evening rise	10608 Aug 21 12:54	16°♄43'53	
min. Earth dist.	10607 Oct 22 23:36	10°♄00'53	0.54872 AU		10608 Aug 28 04:46	0°♄	
inferior conj	10607 Oct 23 21:02	9°♄30'36	-5°33'57	evening max el	10608 Sep 09 12:49	17°♄57'28	20°53'18
minimum elong	10607 Oct 23 15:34	9°♄38'21	5°33'03	desc. node	10608 Sep 16 20:42	22°♄56'28	
morning rise	10607 Nov 01 07:04	5°♄43'18		retrograde	10608 Sep 21 03:11	23°♄42'38	
direct	10607 Nov 04 14:00	5°♄18'55		evening set	10608 Sep 23 09:45	23°♄30'18	
morning max el	10607 Nov 16 07:05	10°♄50'37	21°19'29	inferior conj	10608 Oct 02 13:05	19°♄34'53	-4°27'54
asc. node	10607 Nov 24 05:14	20°♄37'20		minimum elong	10608 Oct 02 03:11	19°♄48'57	4°25'06
	10607 Nov 29 18:15	0°♄		min. Earth dist.	10608 Oct 03 07:40	19°♄08'27	0.54637 AU
morning set	10607 Dec 06 08:55	13°♄08'28		morning rise	10608 Oct 10 20:43	15°♄39'12	
				direct	10608 Oct 14 22:06	15°♄03'50	
superior conj	10607 Dec 13 15:16	28°♄23'24	1°32'42	morning max el	10608 Oct 27 23:04	21°♄20'05	23°02'02
minimum elong	10607 Dec 13 17:02	28°♄32'31	1°33'06		10608 Nov 04 08:47	0°♄	
	10607 Dec 14 09:57	0°♄		asc. node	10608 Nov 10 02:09	8°♄56'08	
max. Earth dist.	10607 Dec 18 03:43	7°♄34'42	1.35197 AU	morning set	10608 Nov 19 20:13	27°♄56'32	
evening rise	10607 Dec 22 06:24	15°♄32'31			10608 Nov 20 19:24	0°♄	
desc. node	10607 Dec 27 21:43	25°♄47'13					
	10607 Dec 30 08:31	0°♄		superior conj	10608 Nov 26 19:19	12°♄55'41	1°39'04
	10608 Jan 19 22:58	0°♄		minimum elong	10608 Nov 26 19:52	12°♄58'41	1°39'34
evening max el	10608 Jan 26 13:59	7°♄14'42	26°34'00	max. Earth dist.	10608 Nov 29 21:35	19°♄29'25	1.33568 AU
retrograde	10608 Feb 08 14:19	14°♄34'09		evening rise	10608 Dec 04 15:21	29°♄08'15	
evening set	10608 Feb 14 23:33	12°♄01'18			10608 Dec 05 01:52	0°♄	
min. Earth dist.	10608 Feb 19 01:47	7°♄51'06	0.66380 AU	desc. node	10608 Dec 13 18:45	16°♄01'22	
asc. node	10608 Feb 20 04:03	6°♄32'49			10608 Dec 22 11:39	0°♄	
inferior conj	10608 Feb 20 22:13	5°♄38'11	0°14'51	evening max el	10609 Jan 08 03:17	20°♄47'36	27°16'02
minimum elong	10608 Feb 20 21:49	5°♄39'24	0°14'58	retrograde	10609 Jan 21 15:21	28°♄10'57	
transit middle	10608 Feb 20 21:49	5°♄39'24	0°14'58	evening set	10609 Jan 28 09:46	25°♄37'42	
transit begin	10608 Feb 20 20:46	5°♄42'34		min. Earth dist.	10609 Feb 01 07:00	22°♄00'21	0.64867 AU
transit end	10608 Feb 20 22:52	5°♄36'14		inferior conj	10609 Feb 03 15:03	19°♄26'59	-0°48'13
morning rise	10608 Feb 26 21:05	29°♄56'38		minimum elong	10609 Feb 03 16:29	19°♄23'01	0°47'13
	10608 Feb 26 18:41	30°♄		asc. node	10609 Feb 06 01:16	16°♄54'19	
direct	10608 Feb 29 20:33	29°♄07'08		morning rise	10609 Feb 10 00:50	13°♄58'17	
	10608 Mar 04 00:16	0°♄		direct	10609 Feb 12 15:25	13°♄22'39	
morning max el	10608 Mar 07 08:31	2°♄35'21	18°23'15	morning max el	10609 Feb 19 00:55	16°♄43'29	17°56'23
desc. node	10608 Mar 24 22:16	27°♄45'41			10609 Feb 28 17:49	0°♄	
	10608 Mar 26 08:02	0°♄		morning set	10609 Mar 08 14:31	12°♄55'25	
morning set	10608 Mar 27 08:06	1°♄35'41		desc. node	10609 Mar 11 19:01	18°♄12'02	
					10609 Mar 19 00:37	0°♄	
superior conj	10608 Apr 12 01:49	26°♄24'45	-1°50'47				

superior conj	10609 Mar 22 14:38	5° Υ 44'18	-1°14'47	morning set	10610 Feb 18 22:17	25° \approx 28'12	
minimum elong	10609 Mar 22 06:33	5° Υ 12'10	1°13'48		10610 Feb 21 12:50	0° H	
max. Earth dist.	10609 Mar 26 14:46	12° Υ 04'29	1.45333 AU	desc. node	10610 Feb 26 15:46	8° H 47'20	
	10609 Apr 07 03:45	0° B					
evening rise	10609 Apr 07 15:48	0° B 46'19		superior conj	10610 Mar 03 00:12	16° H 04'39	-0°32'19
greatest brilliancy	10609 Apr 22 02:24	22° B 36'43	-0.6m	minimum elong	10610 Mar 02 20:52	15° H 50'52	0°31'37
	10609 Apr 27 07:27	0° II		max. Earth dist.	10610 Mar 09 08:56	26° H 25'50	1.44303 AU
evening max el	10609 May 03 18:25	7° II 49'07	19°50'37		10610 Mar 11 14:46	0° Υ	
asc. node	10609 May 04 23:12	8° II 58'00		evening rise	10610 Mar 18 03:28	10° Υ 11'16	
retrograde	10609 May 11 06:00	12° II 05'52			10610 Mar 31 08:13	0° B	
evening set	10609 May 15 00:49	10° II 42'36		evening max el	10610 Apr 16 18:21	21° B 32'22	20°55'52
inferior conj	10609 May 20 09:00	4° II 44'05	3°16'58	asc. node	10610 Apr 21 20:24	25° B 33'33	
minimum elong	10609 May 20 08:36	4° II 45'26	3°16'29	retrograde	10610 Apr 25 04:38	26° B 28'01	
min. Earth dist.	10609 May 21 09:56	3° II 20'24	0.67496 AU	evening set	10610 Apr 29 09:14	24° B 48'53	
	10609 May 24 02:17	30° R B		inferior conj	10610 May 04 15:56	18° B 38'01	3°06'42
morning rise	10609 May 25 16:02	28° B 24'17		minimum elong	10610 May 04 14:36	18° B 42'38	3°06'09
direct	10609 May 31 12:58	25° B 47'48		min. Earth dist.	10610 May 05 03:04	17° B 59'28	0.68300 AU
desc. node	10609 Jun 07 19:37	28° B 48'44		morning rise	10610 May 09 19:45	12° B 21'50	
	10609 Jun 09 07:21	0° II		direct	10610 May 15 03:55	10° B 00'31	
morning max el	10609 Jun 12 11:04	2° II 56'55	25°06'52	desc. node	10610 May 25 16:33	16° B 13'00	
	10609 Jul 03 01:14	0° B		morning max el	10610 May 25 20:38	16° B 23'17	23°38'13
morning set	10609 Jul 18 10:44	25° B 24'43			10610 Jun 06 02:13	0° II	
	10609 Jul 20 23:34	0° Ω			10610 Jun 26 01:19	0° B	
max. Earth dist.	10609 Jul 22 01:06	1° Ω 57'46	1.36669 AU	morning set	10610 Jun 30 00:17	6° B 35'36	
				max. Earth dist.	10610 Jul 03 22:08	13° B 20'26	1.38920 AU
superior conj	10609 Jul 28 11:40	14° Ω 17'47	-0°32'58				
minimum elong	10609 Jul 28 13:46	14° Ω 28'07	0°32'59	superior conj	10610 Jul 11 10:32	26° B 59'25	-1°06'20
asc. node	10609 Jul 31 22:25	21° Ω 10'40		minimum elong	10610 Jul 11 15:00	27° B 20'22	1°06'06
	10609 Aug 05 06:54	0° H			10610 Jul 13 00:49	0° Ω	
evening rise	10609 Aug 05 17:44	0° H 54'47		asc. node	10610 Jul 18 19:19	11° Ω 07'58	
evening max el	10609 Aug 22 22:25	29° H 06'58	19°39'47	evening rise	10610 Jul 20 15:28	14° Ω 43'05	
	10609 Aug 23 20:46	0° Ω			10610 Jul 28 20:39	0° H	
retrograde	10609 Sep 01 19:56	4° Ω 01'46		evening max el	10610 Aug 05 20:37	11° H 02'20	18°47'31
evening set	10609 Sep 03 16:32	3° Ω 52'09		retrograde	10610 Aug 14 05:11	15° H 12'46	
desc. node	10609 Sep 03 17:59	3° Ω 51'31		evening set	10610 Aug 16 03:48	15° H 00'04	
	10609 Sep 12 05:26	30° R H		desc. node	10610 Aug 21 15:14	12° H 29'21	
inferior conj	10609 Sep 12 12:34	29° H 48'50	-2°41'56	inferior conj	10610 Aug 24 06:34	10° H 38'57	-0°49'10
minimum elong	10609 Sep 12 05:21	0° Ω 00'08	2°39'19	minimum elong	10610 Aug 24 04:31	10° H 42'40	0°48'35
min. Earth dist.	10609 Sep 14 18:08	28° H 25'13	0.55355 AU	min. Earth dist.	10610 Aug 27 09:08	8° H 24'12	0.56879 AU
morning rise	10609 Sep 20 16:11	25° H 25'50		morning rise	10610 Sep 01 01:55	5° H 38'39	
direct	10609 Sep 25 13:16	24° H 33'06		direct	10610 Sep 06 17:37	4° H 21'16	
	10609 Oct 07 19:13	0° Ω		morning max el	10610 Sep 21 00:15	11° H 45'59	26°23'00
morning max el	10609 Oct 09 10:12	1° Ω 27'42	24°49'00		10610 Oct 05 03:53	0° Ω	
asc. node	10609 Oct 27 23:00	27° Ω 51'02		asc. node	10610 Oct 14 19:50	17° Ω 12'55	
	10609 Oct 29 02:14	0° H		morning set	10610 Oct 19 18:37	27° Ω 23'39	
morning set	10609 Nov 04 08:00	12° H 43'02			10610 Oct 20 23:42	0° H	
superior conj	10609 Nov 11 03:58	27° H 38'46	1°39'01	superior conj	10610 Oct 26 15:08	12° H 26'36	1°33'03
minimum elong	10609 Nov 11 03:23	27° H 35'34	1°39'27	minimum elong	10610 Oct 26 13:37	12° H 18'14	1°33'16
	10609 Nov 12 05:46	0° A		max. Earth dist.	10610 Oct 27 06:53	13° H 54'04	1.31673 AU
max. Earth dist.	10609 Nov 12 23:27	1° A 36'15	1.32385 AU	evening rise	10610 Nov 02 13:08	27° H 30'25	
evening rise	10609 Nov 18 10:33	13° A 10'00			10610 Nov 03 17:48	0° A	
	10609 Nov 27 05:32	0° B		desc. node	10610 Nov 17 12:58	25° A 19'09	
desc. node	10609 Nov 30 15:50	5° B 54'48			10610 Nov 20 13:58	0° B	
	10609 Dec 17 19:44	0° \approx		evening max el	10610 Dec 03 21:50	16° B 23'28	27°13'49
evening max el	10609 Dec 21 14:47	3° \approx 55'01	27°31'07	retrograde	10610 Dec 17 19:08	23° B 36'08	
retrograde	10610 Jan 04 09:15	11° \approx 14'31		evening set	10610 Dec 24 18:27	21° B 25'55	
evening set	10610 Jan 11 09:10	8° \approx 48'23		min. Earth dist.	10610 Dec 28 12:21	18° B 40'48	0.61006 AU
min. Earth dist.	10610 Jan 15 03:01	5° \approx 40'37	0.63047 AU	inferior conj	10610 Dec 31 14:50	15° B 59'43	-3°14'29
inferior conj	10610 Jan 17 21:41	2° \approx 57'00	-1°59'03	minimum elong	10610 Dec 31 21:21	15° B 45'35	3°11'39
minimum elong	10610 Jan 18 01:35	2° \approx 47'23	1°57'00	morning rise	10611 Jan 08 02:52	11° B 06'18	
	10610 Jan 21 02:37	30° R B		direct	10611 Jan 10 06:39	10° B 47'14	
asc. node	10610 Jan 23 22:27	28° B 07'25		asc. node	10611 Jan 10 19:32	10° B 48'27	
morning rise	10610 Jan 24 20:12	27° B 44'14		morning max el	10611 Jan 17 10:01	14° B 22'20	17°55'49
direct	10610 Jan 27 04:01	27° B 18'39			10611 Jan 28 02:47	0° \approx	
	10610 Feb 02 00:34	0° \approx		morning set	10611 Feb 02 00:56	8° \approx 53'54	
morning max el	10610 Feb 02 18:30	0° \approx 41'58	17°46'57				

superior conj	10611 Feb 12 10:51	27°  36'27	0°08'11			10612 Jan 03 01:08	0° 		
minimum elong	10611 Feb 12 11:35	27°  39'38	0°08'24	morning set		10612 Jan 16 16:48	22°  55'14		
behind sun begin	10611 Feb 12 04:34	27°  09'02				10612 Jan 20 09:35	0° 		
behind sun end	10611 Feb 12 18:36	28°  10'09							
desc. node	10611 Feb 13 12:34	29°  27'56		superior conj		10612 Jan 25 19:45	10°  10'24	0°42'08	
	10611 Feb 13 20:00	0° 		minimum elong		10612 Jan 25 22:29	10°  22'57	0°42'09	
max. Earth dist.	10611 Feb 19 23:05	10°  19'31	1.42678 AU	desc. node		10612 Jan 31 09:23	20°  09'50		
evening rise	10611 Feb 26 01:05	20°  08'17		max. Earth dist.		10612 Feb 02 08:03	23°  32'05	1.40639 AU	
	10611 Mar 04 09:51	0° 				10612 Feb 06 04:00	0° 		
	10611 Mar 25 19:54	0° 		evening rise		10612 Feb 06 17:57	0°  57'43		
evening max el	10611 Mar 30 13:02	5°  16'34	22°11'08			10612 Feb 25 19:30	0° 		
asc. node	10611 Apr 08 17:36	10°  54'32		evening max el		10612 Mar 12 04:04	19°  03'16	23°31'25	
retrograde	10611 Apr 09 02:05	10°  55'08		retrograde		10612 Mar 22 20:59	25°  22'25		
evening set	10611 Apr 13 17:24	9°  00'40		asc. node		10612 Mar 25 14:49	24°  46'35		
inferior conj	10611 Apr 19 00:49	2°  39'51	2°46'01	evening set		10612 Mar 27 23:48	23°  13'55		
minimum elong	10611 Apr 18 22:51	2°  46'40	2°45'21	inferior conj		10612 Apr 02 09:44	16°  46'24	2°15'43	
min. Earth dist.	10611 Apr 18 23:05	2°  45'51	0.68643 AU	minimum elong		10612 Apr 02 07:32	16°  53'56	2°14'59	
	10611 Apr 20 23:40	30°  R 		min. Earth dist.		10612 Apr 01 19:50	17°  34'06	0.68539 AU	
morning rise	10611 Apr 24 04:10	26°  Y28'37		morning rise		10612 Apr 07 15:16	10°  41'22		
direct	10611 Apr 28 22:45	24°  Y27'12		direct		10612 Apr 11 20:31	9°  Y01'36		
	10611 May 08 09:20	0° 		morning max el		10612 Apr 20 02:05	13°  Y44'00	20°48'02	
morning max el	10611 May 08 08:34	29°  Y58'06	22°09'20	desc. node		10612 Apr 28 10:16	23°  Y45'18		
desc. node	10611 May 12 13:26	4°  37'17				10612 May 02 22:19	0° 		
	10611 May 30 20:42	0° 		morning set		10612 May 19 23:01	25°  30'37		
morning set	10611 Jun 10 12:09	16°  II36'02				10612 May 22 19:45	0° 		
max. Earth dist.	10611 Jun 15 21:23	25°  II27'25	1.41183 AU	max. Earth dist.		10612 May 28 02:47	8°  II27'29	1.43182 AU	
	10611 Jun 18 13:48	0° 							
superior conj	10611 Jun 23 15:37	8°  35'04	-1°37'42	superior conj		10612 Jun 03 22:38	19°  II43'21	-2°02'04	
minimum elong	10611 Jun 23 21:54	9°  38'37	1°37'30	minimum elong		10612 Jun 04 04:18	20°  II07'14	2°02'14	
evening rise	10611 Jul 04 02:36	27°  35'25				10612 Jun 09 22:47	0° 		
	10611 Jul 05 04:32	0° 		evening rise		10612 Jun 15 22:49	10°  33'43		
asc. node	10611 Jul 05 16:15	0°  35'24		asc. node		10612 Jun 21 13:14	20°  35'38		
evening max el	10611 Jul 20 03:48	23°  35'50	18°16'04			10612 Jun 27 09:53	0° 		
retrograde	10611 Jul 27 09:30	27°  35'06		evening max el		10612 Jul 02 16:08	6°  38'54	18°04'23	
evening set	10611 Jul 29 14:54	26°  35'04		retrograde		10612 Jul 09 06:07	10°  38'01'48		
inferior conj	10611 Aug 05 22:20	22°  35'35	0°46'23	evening set		10612 Jul 11 19:26	9°  31'01		
minimum elong	10611 Aug 05 23:51	22°  35'20	0°45'28	inferior conj		10612 Jul 18 09:54	4°  31'52	1°56'27	
desc. node	10611 Aug 08 12:29	20°  35'04		minimum elong		10612 Jul 18 12:39	4°  23'05	1°55'11	
min. Earth dist.	10611 Aug 09 06:53	19°  35'17	0.58939 AU	min. Earth dist.		10612 Jul 21 13:00	1°  26'37	0.61214 AU	
morning rise	10611 Aug 13 05:25	16°  38'35				10612 Jul 23 03:59	30°  R 		
direct	10611 Aug 19 12:03	14°  38'35		morning rise		10612 Jul 25 03:18	28°  30'22		
morning max el	10611 Sep 02 21:06	22°  38'36	27°28'19	desc. node		10612 Jul 25 09:41	28°  31'51		
	10611 Sep 09 09:57	0° 		direct		10612 Jul 31 18:43	26°  31'53'6		
	10611 Sep 28 05:06	0° 				10612 Aug 10 03:29	0° 		
asc. node	10611 Oct 01 16:38	6°  33'28		morning max el		10612 Aug 15 00:44	4°  31'53'3	27°56'15	
morning set	10611 Oct 04 02:18	11°  32'24				10612 Sep 03 04:05	0° 		
max. Earth dist.	10611 Oct 10 16:18	26°  31'31	1.31438 AU	morning set		10612 Sep 17 05:11	26°  31'04'12		
				asc. node		10612 Sep 17 13:27	26°  31'46'59		
superior conj	10611 Oct 11 02:50	27°  31'12	1°21'31			10612 Sep 19 02:19	0° 		
minimum elong	10611 Oct 11 00:45	27°  31'34	1°21'28	max. Earth dist.		10612 Sep 22 23:54	8°  31'24'26	1.31698 AU	
	10611 Oct 12 08:59	0° 							
evening rise	10611 Oct 17 20:38	12°  31'47		superior conj		10612 Sep 24 13:20	11°  31'50'20	1°04'41	
	10611 Oct 26 21:31	0° 		minimum elong		10612 Sep 24 11:06	11°  31'38'00	1°04'22	
desc. node	10611 Nov 04 10:08	14°  31'02'00		evening rise		10612 Oct 01 07:04	26°  31'38'39		
evening max el	10611 Nov 15 21:44	28°  31'01'53	26°22'25			10612 Oct 02 20:52	0° 		
	10611 Nov 18 03:05	0° 		desc. node		10612 Oct 19 22:54	0° 		
retrograde	10611 Nov 29 19:58	5°  30'7'34		evening max el		10612 Oct 21 07:20	1°  31'47'18		
evening set	10611 Dec 06 09:22	3°  30'22'50		retrograde		10612 Oct 27 13:33	8°  31'49'41	25°01'19	
min. Earth dist.	10611 Dec 10 11:06	0°  30'47'46	0.58886 AU	evening set		10612 Nov 10 09:50	15°  31'46'55		
	10611 Dec 11 12:55	30°  R 		min. Earth dist.		10612 Nov 16 01:20	14°  31'35'02		
inferior conj	10611 Dec 13 14:58	28°  31'24'54	-4°27'33	inferior conj		10612 Nov 21 01:23	11°  31'52'26	0.56920 AU	
minimum elong	10611 Dec 13 22:59	28°  31'09'46	4°24'50	minimum elong		10612 Nov 23 19:15	10°  31'04'25	-5°24'47	
morning rise	10611 Dec 21 15:16	23°  31'53'32				10612 Nov 24 01:21	9°  31'54'21	5°23'23	
direct	10611 Dec 23 18:53	23°  31'37'37		morning rise		10612 Dec 02 03:39	5°  31'55'06		
asc. node	10611 Dec 28 16:36	25°  31'05'34		direct		10612 Dec 04 12:51	5°  31'38'53		
morning max el	10611 Dec 31 19:51	27°  31'34'09	18°24'26	morning max el		10612 Dec 13 20:06	10°  31'06'30	19°14'39	
				asc. node		10612 Dec 14 13:39	10°  31'50'15		

	10612 Dec 26 23:48	0°♄			10613 Dec 03 00:00	0°♄	
morning set	10612 Dec 30 17:41	7°♄20'10		morning set	10613 Dec 15 00:31	21°♄59'58	
					10613 Dec 18 21:22	0°♄	
superior conj	10613 Jan 07 22:02	23°♄32'41	1°08'02				
minimum elong	10613 Jan 08 01:06	23°♄47'28	1°08'08	superior conj	10613 Dec 22 13:14	7°♄30'46	1°25'51
	10613 Jan 11 07:16	0°♄		minimum elong	10613 Dec 22 15:36	7°♄42'49	1°26'10
max. Earth dist.	10613 Jan 14 13:59	6°♄02'52	1.38435 AU	max. Earth dist.	10613 Dec 27 21:41	18°♄05'56	1.36306 AU
desc. node	10613 Jan 17 06:13	10°♄49'28		evening rise	10613 Dec 31 18:13	25°♄20'11	
evening rise	10613 Jan 18 08:21	12°♄43'44			10614 Jan 03 08:16	0°♄	
	10613 Jan 28 20:39	0°♄		desc. node	10614 Jan 04 03:08	1°♄23'14	
	10613 Feb 19 23:25	0°♄			10614 Jan 22 09:39	0°♄	
evening max el	10613 Feb 22 17:37	2°♄52'44	24°50'15	evening max el	10614 Feb 05 07:10	16°♄42'39	26°00'25
retrograde	10613 Mar 06 11:56	9°♄43'54		retrograde	10614 Feb 17 22:00	23°♄54'16	
evening set	10613 Mar 12 02:49	7°♄23'23		evening set	10614 Feb 24 00:52	21°♄24'49	
asc. node	10613 Mar 12 12:04	7°♄03'05		asc. node	10614 Feb 27 09:19	17°♄59'03	
min. Earth dist.	10613 Mar 16 15:06	2°♄18'34	0.68015 AU	min. Earth dist.	10614 Feb 28 06:34	16°♄54'51	0.67093 AU
inferior conj	10613 Mar 17 16:48	0°♄53'31	1°36'05	inferior conj	10614 Mar 01 20:07	14°♄57'44	0°47'14
minimum elong	10613 Mar 17 14:51	1°♄00'01	1°35'27	minimum elong	10614 Mar 01 18:57	15°♄01'22	0°46'58
	10613 Mar 18 09:03	30°♄		morning rise	10614 Mar 07 13:41	9°♄09'41	
morning rise	10613 Mar 23 03:05	24°♄56'03		direct	10614 Mar 10 19:08	8°♄10'19	
direct	10613 Mar 26 19:50	23°♄37'31		morning max el	10614 Mar 17 11:45	11°♄47'35	18°46'18
morning max el	10613 Apr 03 03:08	27°♄41'05	19°39'25		10614 Mar 30 22:04	0°♄	
	10613 Apr 05 07:07	0°♄		desc. node	10614 Apr 02 03:48	3°♄27'05	
desc. node	10613 Apr 15 07:02	13°♄24'36		morning set	10614 Apr 08 08:21	13°♄05'22	
greatest brilliancy	10613 Apr 15 20:35	14°♄14'08	-0.6m		10614 Apr 19 04:16	0°♄	
	10613 Apr 26 07:57	0°♄		max. Earth dist.	10614 Apr 23 08:41	6°♄32'36	1.45523 AU
morning set	10613 Apr 28 21:54	3°♄57'40					
max. Earth dist.	10613 May 10 15:01	22°♄13'40	1.44682 AU	superior conj	10614 Apr 24 16:43	8°♄38'05	-2°04'41
				minimum elong	10614 Apr 24 10:05	8°♄12'03	2°04'39
superior conj	10613 May 15 05:22	29°♄33'54	-2°12'59		10614 May 08 04:17	0°♄	
minimum elong	10613 May 15 06:05	29°♄36'45	2°13'25	evening rise	10614 May 09 23:50	2°♄54'49	
	10613 May 15 11:52	0°♄		greatest brilliancy	10614 May 16 10:50	13°♄17'51	-0.9m
evening rise	10613 May 28 23:07	22°♄14'05		asc. node	10614 May 26 07:22	28°♄15'54	
	10613 Jun 02 13:42	0°♄			10614 May 27 14:59	0°♄	
asc. node	10613 Jun 08 10:16	9°♄35'17		evening max el	10614 May 30 18:23	3°♄36'16	18°36'46
evening max el	10613 Jun 16 06:00	20°♄01'40	18°11'33	retrograde	10614 Jun 06 07:07	7°♄09'36	
retrograde	10613 Jun 22 14:40	23°♄22'53		evening set	10614 Jun 09 12:24	6°♄10'45	
evening set	10613 Jun 25 11:57	22°♄38'49		inferior conj	10614 Jun 15 04:24	0°♄34'47	3°08'03
inferior conj	10613 Jul 01 13:15	17°♄19'29	2°42'19	minimum elong	10614 Jun 15 05:49	0°♄30'28	3°07'20
minimum elong	10613 Jul 01 15:42	17°♄12'43	2°41'17		10614 Jun 15 15:47	30°♄	
min. Earth dist.	10613 Jul 04 04:14	14°♄25'57	0.63411 AU	min. Earth dist.	10614 Jun 17 04:35	28°♄08'28	0.65320 AU
morning rise	10613 Jul 07 17:51	11°♄05'57		morning rise	10614 Jun 20 22:24	24°♄15'01	
desc. node	10613 Jul 12 06:51	8°♄47'00		direct	10614 Jun 27 10:47	21°♄31'39	
direct	10613 Jul 14 10:52	8°♄31'24		desc. node	10614 Jun 29 03:57	21°♄41'43	
morning max el	10613 Jul 28 09:01	16°♄33'51	27°46'06	morning max el	10614 Jul 10 19:35	29°♄24'49	27°02'42
	10613 Aug 08 11:25	0°♄			10614 Jul 11 09:20	0°♄	
	10613 Aug 26 22:25	0°♄			10614 Aug 02 08:59	0°♄	
morning set	10613 Sep 01 01:02	9°♄53'01		morning set	10614 Aug 15 11:02	23°♄11'37	
asc. node	10613 Sep 04 10:17	16°♄48'30			10614 Aug 18 22:05	0°♄	
max. Earth dist.	10613 Sep 06 01:59	20°♄17'25	1.32463 AU	max. Earth dist.	10614 Aug 19 19:20	1°♄47'08	1.33739 AU
				asc. node	10614 Aug 22 07:07	6°♄53'52	
superior conj	10613 Sep 08 20:43	26°♄15'25	0°42'47				
minimum elong	10613 Sep 08 18:53	26°♄05'26	0°42'21	superior conj	10614 Aug 23 22:48	10°♄21'21	0°16'15
	10613 Sep 10 14:03	0°♄		minimum elong	10614 Aug 23 21:59	10°♄17'01	0°15'51
evening rise	10613 Sep 15 18:33	11°♄15'45		behind sun begin	10614 Aug 23 21:05	10°♄12'18	
	10613 Sep 25 05:44	0°♄		behind sun end	10614 Aug 23 22:53	10°♄21'43	
desc. node	10613 Oct 08 04:36	18°♄13'19		evening rise	10614 Aug 31 05:10	25°♄47'34	
evening max el	10613 Oct 09 00:25	19°♄02'35	23°22'51		10614 Sep 02 05:32	0°♄	
retrograde	10613 Oct 22 10:39	25°♄44'10		evening max el	10614 Sep 20 14:26	29°♄13'14	21°44'09
evening set	10613 Oct 26 17:22	25°♄04'21			10614 Sep 21 10:03	0°♄	
min. Earth dist.	10613 Nov 02 10:15	21°♄55'57	0.55412 AU	desc. node	10614 Sep 25 01:53	2°♄51'48	
inferior conj	10613 Nov 04 03:35	20°♄55'27	-5°45'58	retrograde	10614 Oct 03 00:41	5°♄24'00	
minimum elong	10613 Nov 04 02:54	20°♄56'27	5°45'34	evening set	10614 Oct 05 21:29	5°♄05'26	
morning rise	10613 Nov 12 14:13	17°♄03'31		inferior conj	10614 Oct 14 21:55	1°♄08'19	-5°12'33
direct	10613 Nov 15 12:00	16°♄43'02		minimum elong	10614 Oct 14 13:40	1°♄19'50	5°10'48
morning max el	10613 Nov 26 07:27	21°♄49'53	20°27'44	min. Earth dist.	10614 Oct 14 17:14	1°♄14'52	0.54655 AU
asc. node	10613 Dec 01 10:40	27°♄47'01			10614 Oct 16 23:24	30°♄	

morning rise	10614 Oct 23 07:03	27° Ω 20'26		desc. node	10615 Sep 11 23:11	15° Ω 13'59	
direct	10614 Oct 26 21:55	26° Ω 51'53		retrograde	10615 Sep 13 13:19	15° Ω 20'39	
	10614 Nov 04 21:53	0° \mathbb{M}		evening set	10615 Sep 15 13:31	15° Ω 10'25	
morning max el	10614 Nov 08 05:20	2° \mathbb{M} 42'16	22°01'45	inferior conj	10615 Sep 24 15:25	11° Ω 12'47	-3°45'56
asc. node	10614 Nov 18 07:37	15° \mathbb{M} 39'34		minimum elong	10615 Sep 24 05:59	11° Ω 26'39	3°42'50
	10614 Nov 26 03:53	0° \mathcal{A}		min. Earth dist.	10615 Sep 26 01:57	10° Ω 22'04	0.54827 AU
morning set	10614 Nov 29 10:45	6° \mathcal{A} 46'30		morning rise	10615 Oct 02 21:43	7° Ω 07'35	
				direct	10615 Oct 07 07:10	6° Ω 25'59	
superior conj	10614 Dec 06 13:26	21° \mathcal{A} 52'47	1°36'13	morning max el	10615 Oct 20 18:25	12° Ω 59'14	23°48'06
minimum elong	10614 Dec 06 14:42	21° \mathcal{A} 59'25	1°36'41		10615 Nov 02 17:34	0° \mathbb{M}	
	10614 Dec 10 11:28	0° \mathcal{Z}		asc. node	10615 Nov 05 04:32	4° \mathbb{M} 14'54	
max. Earth dist.	10614 Dec 10 11:17	29° \mathcal{A} 59'06	1.34451 AU	morning set	10615 Nov 13 22:28	21° \mathbb{M} 34'25	
evening rise	10614 Dec 14 19:44	8° \mathcal{Z} 36'16			10615 Nov 17 20:01	0° \mathcal{A}	
desc. node	10614 Dec 22 00:07	21° \mathcal{Z} 45'46					
	10614 Dec 26 21:54	0° \approx		superior conj	10615 Nov 20 19:43	6° \mathcal{A} 30'22	1°39'48
	10615 Jan 18 10:49	0° \mathcal{H}		minimum elong	10615 Nov 20 19:47	6° \mathcal{A} 30'41	1°40'17
evening max el	10615 Jan 18 20:41	0° \mathcal{H} 23'59	26°54'44	max. Earth dist.	10615 Nov 23 08:38	11° \mathcal{A} 57'54	1.33003 AU
retrograde	10615 Feb 01 02:21	7° \mathcal{H} 45'30		evening rise	10615 Nov 28 09:23	22° \mathcal{A} 23'27	
evening set	10615 Feb 07 16:00	5° \mathcal{H} 11'37			10615 Dec 02 06:56	0° \mathcal{Z}	
min. Earth dist.	10615 Feb 11 15:59	1° \mathcal{H} 15'51	0.65785 AU	desc. node	10615 Dec 08 21:09	11° \mathcal{Z} 51'36	
	10615 Feb 12 18:26	30° \mathcal{R} \approx			10615 Dec 20 16:21	0° \approx	
inferior conj	10615 Feb 13 17:26	28° \approx 53'15	-0°10'48	evening max el	10616 Jan 01 09:12	13° \approx 46'11	27°26'01
minimum elong	10615 Feb 13 17:43	28° \approx 52'24	0°10'21	retrograde	10616 Jan 15 00:26	21° \approx 09'00	
transit middle	10615 Feb 13 17:43	28° \approx 52'24	0°10'21	evening set	10616 Jan 21 21:56	18° \approx 37'23	
transit begin	10615 Feb 13 15:27	28° \approx 58'57		min. Earth dist.	10616 Jan 25 17:18	15° \approx 13'31	0.64127 AU
transit end	10615 Feb 13 19:59	28° \approx 45'52		inferior conj	10616 Jan 28 06:13	12° \approx 34'06	-1°17'27
asc. node	10615 Feb 14 06:33	28° \approx 15'31		minimum elong	10616 Jan 28 08:38	12° \approx 27'44	1°16'01
morning rise	10615 Feb 19 20:41	23° \approx 16'56		asc. node	10616 Feb 01 03:44	8° \approx 51'49	
direct	10615 Feb 22 16:15	22° \approx 33'39		morning rise	10616 Feb 03 21:16	7° \approx 12'09	
morning max el	10615 Mar 01 02:05	25° \approx 57'02	18°09'46	direct	10616 Feb 06 08:41	6° \approx 41'18	
	10615 Mar 04 14:30	0° \mathcal{H}		morning max el	10616 Feb 12 19:23	10° \approx 01'52	17°50'16
morning set	10615 Mar 19 21:56	23° \mathcal{H} 35'21			10616 Feb 26 10:19	0° \mathcal{H}	
desc. node	10615 Mar 20 00:33	23° \mathcal{H} 45'56		morning set	10616 Feb 29 15:48	5° \mathcal{H} 27'48	
	10615 Mar 23 21:18	0° \mathcal{Y}		desc. node	10616 Mar 05 21:17	14° \mathcal{H} 16'14	
superior conj	10615 Apr 03 23:32	17° \mathcal{Y} 37'09	-1°36'56	superior conj	10616 Mar 13 20:00	27° \mathcal{H} 19'33	-0°56'59
minimum elong	10615 Apr 03 14:03	16° \mathcal{Y} 59'56	1°36'07	minimum elong	10616 Mar 13 13:48	26° \mathcal{H} 54'34	0°56'03
max. Earth dist.	10615 Apr 06 04:43	21° \mathcal{Y} 05'36	1.45617 AU		10616 Mar 15 11:53	0° \mathcal{Y}	
	10615 Apr 11 21:41	0° \mathcal{B}		max. Earth dist.	10616 Mar 18 23:50	5° \mathcal{Y} 34'10	1.44971 AU
evening rise	10615 Apr 20 01:58	12° \mathcal{B} 42'58		evening rise	10616 Mar 29 14:32	22° \mathcal{Y} 04'39	
	10615 May 01 06:56	0° \mathbb{I}			10616 Apr 03 19:18	0° \mathcal{B}	
greatest brilliancy	10615 May 02 03:30	1° \mathbb{I} 17'41	-0.7m		10616 Apr 25 07:28	0° \mathbb{I}	
asc. node	10615 May 13 04:30	16° \mathbb{I} 17'59		evening max el	10616 Apr 26 05:56	0° \mathbb{I} 58'45	20°16'50
evening max el	10615 May 14 02:50	17° \mathbb{I} 16'32	19°19'06	asc. node	10616 Apr 29 01:40	3° \mathbb{I} 29'12	
retrograde	10615 May 21 04:02	21° \mathbb{I} 14'37		retrograde	10616 May 04 02:42	5° \mathbb{I} 31'47	
evening set	10615 May 24 17:41	20° \mathbb{I} 00'18		evening set	10616 May 08 01:30	4° \mathbb{I} 01'47	
inferior conj	10615 May 30 03:50	14° \mathbb{I} 09'20	3°17'37		10616 May 11 20:13	30° \mathcal{R} \mathcal{B}	
minimum elong	10615 May 30 04:05	14° \mathbb{I} 08'34	3°17'05	inferior conj	10616 May 13 08:44	27° \mathcal{B} 57'34	3°13'59
min. Earth dist.	10615 May 31 13:00	12° \mathbb{I} 21'10	0.66826 AU	minimum elong	10616 May 13 07:54	28° \mathcal{B} 00'24	3°13'29
morning rise	10615 Jun 04 14:02	7° \mathbb{I} 48'27		min. Earth dist.	10616 May 14 03:40	26° \mathcal{B} 52'56	0.67890 AU
direct	10615 Jun 10 17:20	5° \mathbb{I} 06'58		morning rise	10616 May 18 14:02	21° \mathcal{B} 38'50	
desc. node	10615 Jun 16 01:00	6° \mathbb{I} 44'04		direct	10616 May 24 05:35	19° \mathcal{B} 08'07	
morning max el	10615 Jun 23 06:16	12° \mathbb{I} 36'56	25°54'05	desc. node	10616 Jun 01 21:58	23° \mathcal{B} 24'09	
	10615 Jul 07 05:56	0° \mathcal{E}		morning max el	10616 Jun 04 15:57	25° \mathcal{B} 59'31	24°29'45
	10615 Jul 26 01:47	0° \mathcal{Q}			10616 Jun 08 08:08	0° \mathbb{I}	
morning set	10615 Jul 29 07:34	5° \mathcal{Q} 50'57			10616 Jun 29 18:59	0° \mathcal{E}	
max. Earth dist.	10615 Aug 02 02:19	12° \mathcal{Q} 57'06	1.35485 AU	morning set	10616 Jul 10 09:54	17° \mathcal{E} 38'02	
				max. Earth dist.	10616 Jul 14 00:53	24° \mathcal{E} 04'44	1.37605 AU
					10616 Jul 17 06:09	0° \mathcal{Q}	
superior conj	10615 Aug 07 17:00	24° \mathcal{Q} 01'27	-0°14'12				
minimum elong	10615 Aug 07 17:51	24° \mathcal{Q} 05'48	0°14'22	superior conj	10616 Jul 20 23:58	7° \mathcal{Q} 06'44	-0°47'08
behind sun begin	10615 Aug 07 15:04	23° \mathcal{Q} 51'42		minimum elong	10616 Jul 21 03:04	7° \mathcal{Q} 21'42	0°47'01
behind sun end	10615 Aug 07 20:39	24° \mathcal{Q} 19'56		asc. node	10616 Jul 26 00:48	17° \mathcal{Q} 00'22	
asc. node	10615 Aug 09 03:57	26° \mathcal{Q} 59'19		evening rise	10616 Jul 29 15:00	24° \mathcal{Q} 10'20	
	10615 Aug 10 15:09	0° \mathbb{M}			10616 Aug 01 13:57	0° \mathbb{M}	
evening rise	10615 Aug 15 12:49	10° \mathbb{M} 08'21					
	10615 Aug 26 01:54	0° \mathcal{E}		evening max el	10616 Aug 15 07:09	21° \mathbb{M} 25'20	19°14'56
evening max el	10615 Sep 02 15:53	9° \mathcal{E} 56'10	20°19'25	retrograde	10616 Aug 24 12:15	26° \mathbb{M} 00'08	

evening set	10616 Aug 26 08:29	25° \mathbb{M} 49'55		evening max el	10617 Jul 29 09:45	3° \mathbb{M} 38'30	18°31'38
desc. node	10616 Aug 28 20:28	25° \mathbb{M} 05'55		retrograde	10617 Aug 06 05:21	7° \mathbb{M} 33'20	
inferior conj	10616 Sep 03 21:56	21° \mathbb{M} 40'00	-1°53'06	evening set	10617 Aug 08 06:39	7° \mathbb{M} 17'58	
minimum elong	10616 Sep 03 16:56	21° \mathbb{M} 48'19	1°51'18	desc. node	10617 Aug 15 17:42	3° \mathbb{M} 02'59	
min. Earth dist.	10616 Sep 06 14:28	19° \mathbb{M} 53'02	0.55916 AU	inferior conj	10617 Aug 16 01:09	2° \mathbb{M} 48'33	-0°05'42
morning rise	10616 Sep 11 22:32	17° \mathbb{M} 01'05		minimum elong	10617 Aug 16 00:55	2° \mathbb{M} 49'00	0°05'55
direct	10616 Sep 17 03:38	15° \mathbb{M} 58'38		transit middle	10617 Aug 16 00:55	2° \mathbb{M} 49'00	0°05'55
morning max el	10616 Oct 01 06:11	23° \mathbb{M} 07'59	25°31'34	transit begin	10617 Aug 15 21:34	2° \mathbb{M} 55'30	
	10616 Oct 07 10:19	0° $\underline{\mathbb{M}}$		transit end	10617 Aug 16 04:15	2° \mathbb{M} 42'30	
asc. node	10616 Oct 22 01:23	23° $\underline{\mathbb{M}}$ 21'52		min. Earth dist.	10617 Aug 19 08:09	0° \mathbb{M} 16'02	0.57719 AU
	10616 Oct 25 09:39	0° \mathbb{M}			10617 Aug 19 16:54	30° \mathbb{R} \mathbb{O}	
morning set	10616 Oct 28 09:54	6° \mathbb{M} 18'27		morning rise	10617 Aug 23 15:40	27° \mathbb{O} 32'41	
				direct	10617 Aug 29 14:40	26° \mathbb{O} 02'37	
superior conj	10616 Nov 04 05:40	21° \mathbb{M} 15'58	1°37'11		10617 Sep 08 17:08	0° \mathbb{M}	
minimum elong	10616 Nov 04 04:40	21° \mathbb{M} 10'24	1°37'32	morning max el	10617 Sep 12 22:41	3° \mathbb{M} 37'52	26°54'50
max. Earth dist.	10616 Nov 05 12:57	24° \mathbb{M} 08'17	1.32018 AU		10617 Oct 02 01:45	0° $\underline{\mathbb{M}}$	
	10616 Nov 08 05:35	0° \mathbb{M}		asc. node	10617 Oct 08 22:12	12° $\underline{\mathbb{M}}$ 52'08	
evening rise	10616 Nov 11 08:00	6° \mathbb{M} 33'30		morning set	10617 Oct 12 19:27	20° $\underline{\mathbb{M}}$ 54'05	
	10616 Nov 23 19:43	0° \mathbb{M}			10617 Oct 16 23:53	0° \mathbb{M}	
desc. node	10616 Nov 24 18:15	1° \mathbb{M} 33'27		superior conj	10617 Oct 19 17:17	6° \mathbb{M} 03'19	1°28'50
evening max el	10616 Dec 13 18:59	26° \mathbb{M} 37'47	27°27'57	minimum elong	10617 Oct 19 15:29	5° \mathbb{M} 53'18	1°28'55
	10616 Dec 17 18:40	0° \approx		max. Earth dist.	10617 Oct 19 21:33	6° \mathbb{M} 27'04	1.31515 AU
retrograde	10616 Dec 27 15:23	3° \approx 55'30		evening rise	10617 Oct 26 12:57	20° \mathbb{M} 59'15	
evening set	10617 Jan 03 15:48	1° \approx 34'52			10617 Oct 30 22:16	0° \mathbb{M}	
	10617 Jan 05 18:51	30° \mathbb{R} \mathbb{O}		desc. node	10617 Nov 11 15:24	20° \mathbb{M} 41'25	
min. Earth dist.	10617 Jan 07 08:57	28° \mathbb{M} 37'50	0.62189 AU		10617 Nov 18 04:27	0° \mathbb{M}	
inferior conj	10617 Jan 10 07:31	25° \mathbb{M} 53'15	-2°30'52	evening max el	10617 Nov 25 23:28	8° \mathbb{M} 46'17	26°56'10
minimum elong	10617 Jan 10 12:33	25° \mathbb{M} 41'27	2°28'24	retrograde	10617 Dec 09 21:40	15° \mathbb{M} 55'45	
morning rise	10617 Jan 17 11:47	20° \mathbb{M} 48'28		evening set	10617 Dec 16 17:49	13° \mathbb{M} 55'41	
asc. node	10617 Jan 18 00:53	20° \mathbb{M} 39'01		min. Earth dist.	10617 Dec 20 13:57	11° \mathbb{M} 16'20	0.60094 AU
direct	10617 Jan 19 17:21	20° \mathbb{M} 26'14		inferior conj	10617 Dec 23 17:53	8° \mathbb{M} 41'13	-3°46'31
morning max el	10617 Jan 26 12:32	23° \mathbb{M} 53'46	17°48'27	minimum elong	10617 Dec 24 01:16	8° \mathbb{M} 26'03	3°43'33
	10617 Jan 31 10:16	0° \approx		morning rise	10617 Dec 31 11:23	3° \mathbb{M} 56'37	
morning set	10617 Feb 11 08:23	18° \approx 25'10		direct	10618 Jan 02 14:27	3° \mathbb{M} 39'19	
	10617 Feb 17 21:53	0° \mathbb{M}		asc. node	10618 Jan 04 22:00	4° \mathbb{M} 00'41	
desc. node	10617 Feb 20 18:03	4° \mathbb{M} 54'06		morning max el	10618 Jan 10 02:03	7° \mathbb{M} 22'47	18°05'27
					10618 Jan 24 13:50	0° \approx	
superior conj	10617 Feb 22 16:17	8° \mathbb{M} 10'39	-0°14'33	morning set	10618 Jan 25 17:16	2° \approx 07'44	
minimum elong	10617 Feb 22 14:54	8° \mathbb{M} 04'48	0°14'05				
behind sun begin	10617 Feb 22 10:39	7° \mathbb{M} 46'50		superior conj	10618 Feb 04 12:53	20° \approx 09'46	0°23'32
behind sun end	10617 Feb 22 19:09	8° \mathbb{M} 22'44		minimum elong	10618 Feb 04 14:42	20° \approx 17'55	0°23'38
max. Earth dist.	10617 Mar 01 15:58	19° \mathbb{M} 43'36	1.43665 AU	desc. node	10618 Feb 07 14:50	25° \approx 35'21	
	10617 Mar 08 03:14	0° \mathbb{M}			10618 Feb 10 04:22	0° \mathbb{M}	
evening rise	10617 Mar 09 04:47	1° \mathbb{M} 39'25		max. Earth dist.	10618 Feb 12 03:52	3° \mathbb{M} 20'29	1.41845 AU
	10617 Mar 28 08:19	0° \mathbb{M}		evening rise	10618 Feb 17 09:55	11° \mathbb{M} 57'24	
evening max el	10617 Apr 09 03:32	14° \mathbb{M} 42'41	21°26'59		10618 Mar 01 02:55	0° \mathbb{M}	
asc. node	10617 Apr 15 22:52	19° \mathbb{M} 35'21		evening max el	10618 Mar 22 20:34	28° \mathbb{M} 28'11	22°45'09
retrograde	10617 Apr 18 01:05	19° \mathbb{M} 56'45			10618 Mar 24 10:54	0° \mathbb{M}	
evening set	10617 Apr 22 10:00	18° \mathbb{M} 11'14		retrograde	10618 Apr 01 21:28	4° \mathbb{M} 24'13	
inferior conj	10617 Apr 27 16:46	11° \mathbb{M} 55'52	2°59'09	asc. node	10618 Apr 02 20:05	4° \mathbb{M} 19'54	
minimum elong	10617 Apr 27 15:08	12° \mathbb{M} 01'35	2°58'34	evening set	10618 Apr 06 17:35	2° \mathbb{M} 23'44	
min. Earth dist.	10617 Apr 27 22:25	11° \mathbb{M} 36'13	0.68498 AU		10618 Apr 09 01:24	30° \mathbb{R} \mathbb{Y}	
morning rise	10617 May 02 20:02	5° \mathbb{M} 41'24		inferior conj	10618 Apr 12 01:53	25° \mathbb{M} 59'54	2°34'18
direct	10617 May 07 22:29	3° \mathbb{M} 27'55		minimum elong	10618 Apr 11 23:47	26° \mathbb{M} 07'13	2°33'37
morning max el	10617 May 18 02:02	9° \mathbb{M} 29'13	22°59'52	min. Earth dist.	10618 Apr 11 19:00	26° \mathbb{M} 23'49	0.68653 AU
desc. node	10617 May 19 18:52	11° \mathbb{M} 16'26		morning rise	10618 Apr 17 05:51	19° \mathbb{M} 51'10	
	10617 Jun 03 05:17	0° \mathbb{M}		direct	10618 Apr 21 18:49	17° \mathbb{M} 58'37	
morning set	10617 Jun 21 12:58	28° \mathbb{M} 20'13		morning max el	10618 Apr 30 15:49	23° \mathbb{M} 07'37	21°33'28
	10617 Jun 22 12:56	0° \mathbb{M}		desc. node	10618 May 06 15:43	0° \mathbb{M} 00'39	
max. Earth dist.	10617 Jun 25 21:38	5° \mathbb{M} 42'01	1.39901 AU		10618 May 06 15:30	0° \mathbb{M}	
					10618 May 27 13:18	0° \mathbb{M}	
superior conj	10617 Jul 03 15:52	19° \mathbb{M} 28'34	-1°20'07	morning set	10618 Jun 01 13:32	7° \mathbb{M} 50'10	
minimum elong	10617 Jul 03 21:15	19° \mathbb{M} 53'15	1°19'52	max. Earth dist.	10618 Jun 07 23:21	18° \mathbb{M} 12'08	1.42087 AU
	10617 Jul 09 07:03	0° \mathbb{M}			10618 Jun 14 23:05	0° \mathbb{M}	
asc. node	10617 Jul 12 21:41	6° \mathbb{M} 53'29		superior conj	10618 Jun 15 12:07	0° \mathbb{M} 56'21	-1°49'14
evening rise	10617 Jul 13 08:42	7° \mathbb{M} 46'07					
	10617 Jul 26 06:34	0° \mathbb{M}					

minimum elong	10618 Jun 15 18:34	1°☿24'21	1°49'10	asc. node	10619 Jun 16 15:40	15°☿57'03	
evening rise	10618 Jun 26 14:04	20°☿45'59		evening max el	10619 Jun 26 09:02	29°☿38'31	18°05'08
asc. node	10618 Jun 29 18:39	26°☿34'13			10619 Jun 26 17:56	0°♈	
	10618 Jul 01 16:36	0°♈		retrograde	10619 Jul 02 19:33	2°♈59'13	
evening max el	10618 Jul 12 19:40	16°♈26'16	18°08'43	evening set	10619 Jul 05 12:16	2°♈22'58	
retrograde	10618 Jul 19 17:07	19°♈56'26			10619 Jul 09 00:28	30°♈☿	
evening set	10618 Jul 22 02:00	19°♈32'03		inferior conj	10619 Jul 11 20:37	27°☿13'34	2°18'39
inferior conj	10618 Jul 29 01:46	14°♈41'48	1°19'15	minimum elong	10619 Jul 11 23:22	27°☿06'25	2°17'26
minimum elong	10618 Jul 29 04:04	14°♈36'36	1°18'04	min. Earth dist.	10619 Jul 14 18:57	24°☿12'09	0.62168 AU
min. Earth dist.	10618 Aug 01 09:03	11°♈43'25	0.59907 AU	morning rise	10619 Jul 18 08:21	21°☿06'49	
desc. node	10618 Aug 02 14:55	10°♈41'35		desc. node	10619 Jul 20 12:07	19°☿48'37	
morning rise	10618 Aug 05 03:07	8°♈55'24		direct	10619 Jul 25 01:04	18°☿42'48	
direct	10618 Aug 11 14:28	6°♈56'10		morning max el	10619 Aug 08 04:34	26°☿44'54	27°56'33
morning max el	10618 Aug 25 22:26	14°♈48'43	27°44'58		10619 Aug 11 05:52	0°♈	
	10618 Sep 07 05:12	0°♈			10619 Aug 31 20:46	0°♈	
	10618 Sep 24 11:45	0°♈		morning set	10619 Sep 11 01:38	19°♈19'56	
asc. node	10618 Sep 25 19:01	2°♈39'10		asc. node	10619 Sep 12 15:49	22°♈36'46	
morning set	10618 Sep 27 01:24	5°♈16'44			10619 Sep 16 03:21	0°♈	
max. Earth dist.	10618 Oct 03 06:53	18°♈45'34	1.31494 AU	max. Earth dist.	10619 Sep 16 12:52	0°♈51'30	1.31965 AU
superior conj	10618 Oct 04 04:45	20°♈46'56	1°15'01	superior conj	10619 Sep 18 14:10	5°♈20'16	0°56'00
minimum elong	10618 Oct 04 02:33	20°♈34'39	1°14'51	minimum elong	10619 Sep 18 12:02	5°♈08'33	0°55'37
	10618 Oct 08 08:31	0°♈		evening rise	10619 Sep 25 09:10	20°♈12'24	
evening rise	10618 Oct 10 22:02	5°♈34'31			10619 Sep 30 02:07	0°♈	
	10618 Oct 23 15:06	0°♈		desc. node	10619 Oct 16 09:50	26°♈17'17	
desc. node	10618 Oct 29 12:35	9°♈02'27			10619 Oct 19 19:28	0°♈	
evening max el	10618 Nov 07 20:09	20°♈03'41	25°51'01	evening max el	10619 Oct 20 08:58	0°♈32'57	24°20'25
retrograde	10618 Nov 21 17:42	27°♈05'12		retrograde	10619 Nov 03 02:03	7°♈25'10	
evening set	10618 Nov 27 23:29	25°♈34'00		evening set	10619 Nov 08 04:55	6°♈27'19	
min. Earth dist.	10618 Dec 02 08:42	22°♈58'10	0.58018 AU	min. Earth dist.	10619 Nov 13 19:53	3°♈36'06	0.56210 AU
inferior conj	10618 Dec 05 09:54	20°♈48'31	-4°54'49	inferior conj	10619 Nov 16 05:23	2°♈06'51	-5°39'25
minimum elong	10618 Dec 05 17:40	20°♈34'42	4°52'33	minimum elong	10619 Nov 16 09:09	2°♈00'59	5°38'40
morning rise	10618 Dec 13 14:17	16°♈26'31			10619 Nov 19 19:32	30°♈♈	
direct	10618 Dec 15 19:40	16°♈10'46		morning rise	10619 Nov 24 15:31	28°♈06'23	
asc. node	10618 Dec 22 19:04	18°♈57'02		direct	10619 Nov 27 05:20	27°♈48'50	
morning max el	10618 Dec 24 08:16	20°♈19'11	18°43'02		10619 Dec 03 23:53	0°♈	
	10618 Dec 31 15:41	0°♈		morning max el	10619 Dec 07 03:22	2°♈31'42	19°42'59
morning set	10619 Jan 09 13:29	16°♈20'56		asc. node	10619 Dec 09 16:07	5°♈14'19	
	10619 Jan 16 14:30	0°♈			10619 Dec 24 06:42	0°♈	
				morning set	10619 Dec 24 17:14	0°♈53'06	
superior conj	10619 Jan 18 05:49	3°♈06'11	0°54'07	superior conj	10620 Jan 01 14:09	16°♈45'21	1°16'32
minimum elong	10619 Jan 18 08:51	3°♈20'26	0°54'09	minimum elong	10620 Jan 01 17:00	16°♈59'25	1°16'44
desc. node	10619 Jan 25 11:41	16°♈16'46		max. Earth dist.	10620 Jan 07 17:49	28°♈33'41	1.37506 AU
max. Earth dist.	10619 Jan 25 11:43	16°♈16'52	1.39712 AU		10620 Jan 08 12:30	0°♈	
evening rise	10619 Jan 29 12:04	23°♈11'19		evening rise	10620 Jan 11 11:07	5°♈19'22	
	10619 Feb 02 14:58	0°♈		desc. node	10620 Jan 12 08:35	6°♈54'19	
	10619 Feb 23 00:23	0°♈			10620 Jan 26 14:11	0°♈	
evening max el	10619 Mar 05 10:49	12°♈16'11	24°05'32	evening max el	10620 Feb 16 00:03	26°♈05'36	25°21'32
retrograde	10619 Mar 16 14:41	18°♈49'35			10620 Feb 20 12:13	0°♈	
asc. node	10619 Mar 20 17:20	17°♈30'59		retrograde	10620 Feb 28 03:45	3°♈07'18	
evening set	10619 Mar 21 22:44	16°♈35'30		evening set	10620 Mar 04 23:53	0°♈42'11	
min. Earth dist.	10619 Mar 26 15:16	11°♈10'52	0.68371 AU		10620 Mar 05 18:40	30°♈♈	
inferior conj	10619 Mar 27 10:15	10°♈06'37	2°00'02	asc. node	10620 Mar 06 14:36	29°♈09'55	
minimum elong	10619 Mar 27 08:05	10°♈13'55	1°59'19	min. Earth dist.	10620 Mar 09 09:07	25°♈52'28	0.67669 AU
morning rise	10619 Apr 01 17:30	4°♈04'51		inferior conj	10620 Mar 10 15:58	24°♈12'44	1°16'30
direct	10619 Apr 05 17:22	2°♈34'17		minimum elong	10620 Mar 10 14:16	24°♈18'13	1°15'58
morning max el	10619 Apr 13 12:27	6°♈58'12	20°17'08	morning rise	10620 Mar 16 05:04	18°♈19'17	
desc. node	10619 Apr 23 12:32	19°♈22'50		direct	10620 Mar 19 16:46	17°♈09'24	
	10619 Apr 30 20:41	0°♈		morning max el	10620 Mar 26 16:58	21°♈00'18	19°14'53
morning set	10619 May 11 16:50	16°♈25'42			10620 Apr 03 01:21	0°♈	
	10619 May 20 08:30	0°♈		greatest brilliancy	10620 Apr 08 14:49	8°♈03'35	-0.7m
max. Earth dist.	10619 May 21 08:21	1°♈35'19	1.43893 AU	desc. node	10620 Apr 09 09:19	9°♈12'50	
				morning set	10620 Apr 19 17:49	25°♈02'12	
superior conj	10619 May 27 08:44	11°♈21'43	-2°08'45		10620 Apr 22 22:49	0°♈	
minimum elong	10619 May 27 12:53	11°♈38'48	2°09'05	max. Earth dist.	10620 May 02 23:06	15°♈37'11	1.45117 AU
	10619 Jun 07 09:09	0°☿					
evening rise	10619 Jun 09 02:24	2°☿58'41					

superior conj	10620 May 06 06:00	20°♄48'50	-2°12'01	evening rise	10621 May 01 07:28	24°♄30'01	
minimum elong	10620 May 06 03:31	20°♄38'59	2°12'21		10621 May 04 18:54	0°♄	
	10620 May 11 23:51	0°♄		greatest brilliancy	10621 May 10 13:10	9°♄03'57	-0.8m
evening rise	10620 May 20 17:00	14°♄14'18		asc. node	10621 May 20 09:51	23°♄21'17	
	10620 May 30 07:59	0°♄		evening max el	10621 May 23 09:29	26°♄44'36	18°52'51
asc. node	10620 Jun 02 12:44	4°♄55'42			10621 May 27 21:20	0°♄	
evening max el	10620 Jun 08 22:33	13°♄07'07	18°20'08	retrograde	10621 May 30 02:40	0°♄27'07	
retrograde	10620 Jun 15 08:04	16°♄32'19			10621 Jun 01 06:41	30°♄	
evening set	10620 Jun 18 08:36	15°♄42'15		evening set	10621 Jun 02 11:23	29°♄21'54	
inferior conj	10620 Jun 24 05:29	10°♄15'38	2°55'26	inferior conj	10621 Jun 08 00:31	23°♄39'40	3°13'51
minimum elong	10620 Jun 24 07:33	10°♄09'41	2°54'32	minimum elong	10621 Jun 08 01:26	23°♄36'46	3°13'15
min. Earth dist.	10620 Jun 26 14:21	7°♄31'43	0.64255 AU	min. Earth dist.	10621 Jun 09 18:23	21°♄28'14	0.66009 AU
morning rise	10620 Jun 30 05:13	3°♄58'21		morning rise	10621 Jun 13 14:50	17°♄18'50	
desc. node	10620 Jul 06 09:14	1°♄19'23		direct	10621 Jun 19 23:52	14°♄34'40	
direct	10620 Jul 06 20:48	1°♄18'36		desc. node	10621 Jun 23 06:19	15°♄11'26	
morning max el	10620 Jul 20 14:23	9°♄19'41	27°31'23	morning max el	10621 Jul 03 01:03	22°♄20'26	26°36'02
	10620 Aug 05 17:29	0°♄			10621 Jul 09 18:16	0°♄	
	10620 Aug 23 05:20	0°♄			10621 Jul 29 23:49	0°♄	
morning set	10620 Aug 24 17:43	2°♄57'35		morning set	10621 Aug 07 22:28	16°♄00'47	
max. Earth dist.	10620 Aug 29 11:36	12°♄35'18	1.32942 AU	max. Earth dist.	10621 Aug 12 00:10	23°♄53'33	1.34421 AU
asc. node	10620 Aug 29 12:39	12°♄40'46			10621 Aug 15 01:01	0°♄	
				asc. node	10621 Aug 16 09:29	2°♄46'41	
superior conj	10620 Sep 01 19:36	19°♄38'15	0°32'04				
minimum elong	10620 Sep 01 18:06	19°♄30'16	0°31'38	superior conj	10621 Aug 16 18:40	3°♄34'12	0°03'47
	10620 Sep 06 14:50	0°♄		minimum elong	10621 Aug 16 18:28	3°♄33'12	0°03'28
evening rise	10620 Sep 08 20:31	4°♄48'03		behind sun begin	10621 Aug 16 12:46	3°♄03'39	
	10620 Sep 22 07:39	0°♄		behind sun end	10621 Aug 17 00:11	4°♄02'48	
evening max el	10620 Sep 30 19:50	10°♄40'01	22°39'50	evening rise	10621 Aug 24 06:06	19°♄15'40	
desc. node	10620 Oct 02 07:05	12°♄01'30			10621 Aug 29 13:30	0°♄	
retrograde	10620 Oct 13 22:12	17°♄11'21		evening max el	10621 Sep 12 14:09	21°♄02'06	21°05'58
evening set	10620 Oct 17 13:27	16°♄42'23		desc. node	10621 Sep 19 04:20	25°♄45'39	
min. Earth dist.	10620 Oct 25 03:44	13°♄17'36	0.54986 AU	retrograde	10621 Sep 24 09:59	26°♄54'05	
inferior conj	10620 Oct 26 06:35	12°♄39'23	-5°39'04	evening set	10621 Sep 26 19:42	26°♄40'31	
minimum elong	10620 Oct 26 02:18	12°♄45'29	5°38'21	inferior conj	10621 Oct 05 22:47	22°♄45'15	-4°41'13
morning rise	10620 Nov 03 16:50	8°♄51'20		minimum elong	10621 Oct 05 13:04	22°♄58'58	4°38'37
direct	10620 Nov 06 21:14	8°♄28'07		min. Earth dist.	10621 Oct 06 11:27	22°♄27'22	0.54611 AU
morning max el	10620 Nov 18 08:55	13°♄53'30	21°05'27	morning rise	10621 Oct 14 06:49	18°♄52'15	
asc. node	10620 Nov 25 13:06	22°♄36'39		direct	10621 Oct 18 05:32	18°♄18'44	
	10620 Nov 30 01:54	0°♄		morning max el	10621 Oct 31 02:12	24°♄28'29	22°46'06
morning set	10620 Dec 08 01:44	15°♄36'18			10621 Nov 05 02:42	0°♄	
	10620 Dec 14 22:57	0°♄		asc. node	10621 Nov 12 10:01	10°♄49'21	
					10621 Nov 22 08:12	0°♄	
superior conj	10620 Dec 15 09:35	0°♄54'58	1°31'06	morning set	10621 Nov 22 12:49	0°♄24'29	
minimum elong	10620 Dec 15 11:31	1°♄04'56	1°31'30				
max. Earth dist.	10620 Dec 20 03:07	10°♄28'08	1.35473 AU	superior conj	10621 Nov 29 12:43	15°♄25'09	1°38'31
evening rise	10620 Dec 24 04:05	18°♄13'57		minimum elong	10621 Nov 29 13:28	15°♄29'08	1°39'01
desc. node	10620 Dec 29 05:32	27°♄23'55		max. Earth dist.	10621 Dec 02 19:57	22°♄22'52	1.33785 AU
	10620 Dec 30 17:32	0°♄			10621 Dec 06 13:54	0°♄	
	10621 Jan 19 19:27	0°♄		evening rise	10621 Dec 07 11:15	1°♄45'24	
evening max el	10621 Jan 28 13:29	9°♄52'24	26°25'55	desc. node	10621 Dec 16 02:30	17°♄40'41	
retrograde	10621 Feb 10 11:40	17°♄10'22			10621 Dec 23 16:09	0°♄	
evening set	10621 Feb 16 19:15	14°♄38'18		evening max el	10622 Jan 11 02:58	23°♄28'30	27°11'18
min. Earth dist.	10621 Feb 20 22:21	10°♄22'57	0.66574 AU		10622 Jan 20 09:10	0°♄	
asc. node	10621 Feb 21 11:51	9°♄42'26		retrograde	10622 Jan 24 13:32	0°♄51'24	
inferior conj	10621 Feb 22 17:00	8°♄13'51	0°23'43		10622 Jan 28 11:39	30°♄	
minimum elong	10621 Feb 22 16:22	8°♄15'45	0°23'42	evening set	10622 Jan 31 06:47	28°♄17'53	
morning rise	10621 Feb 28 14:24	2°♄30'29		min. Earth dist.	10622 Feb 04 04:45	24°♄35'45	0.65118 AU
direct	10621 Mar 03 15:20	1°♄38'33		inferior conj	10622 Feb 06 11:03	22°♄05'00	-0°38'03
morning max el	10621 Mar 10 04:18	5°♄08'51	18°28'39	minimum elong	10622 Feb 06 12:10	22°♄01'53	0°37'13
desc. node	10621 Mar 27 06:05	29°♄22'53		asc. node	10622 Feb 08 09:02	20°♄00'55	
	10621 Mar 27 15:28	0°♄		morning rise	10622 Feb 12 19:05	16°♄34'07	
morning set	10621 Mar 30 14:43	4°♄41'49		direct	10622 Feb 15 10:55	15°♄56'33	
				morning max el	10622 Feb 21 20:13	19°♄17'43	17°59'16
superior conj	10621 Apr 15 13:08	29°♄44'46	-1°55'01		10622 Mar 01 22:44	0°♄	
minimum elong	10621 Apr 15 04:24	29°♄10'40	1°54'37	morning set	10622 Mar 11 16:53	15°♄49'18	
max. Earth dist.	10621 Apr 15 17:29	0°♄01'48	1.45646 AU	desc. node	10622 Mar 14 02:51	19°♄47'40	
	10621 Apr 15 17:02	0°♄			10622 Mar 20 09:18	0°♄	

superior conj	10622 Mar 25 23:51	8°♊57'36	-1°20'53	morning set	10623 Feb 21 21:15	28°♊12'25	
minimum elong	10622 Mar 25 15:15	8°♊23'30	1°19'54		10623 Feb 22 22:10	0°♋	
max. Earth dist.	10622 Mar 29 13:28	14°♊35'13	1.45436 AU	desc. node	10623 Feb 28 23:35	10°♋21'56	
	10622 Apr 08 11:15	0°♌					
evening rise	10622 Apr 11 02:13	4°♌02'44		superior conj	10623 Mar 06 05:49	19°♋07'47	-0°38'46
greatest brilliancy	10622 Apr 24 23:44	25°♌08'45	-0.7m	minimum elong	10623 Mar 06 01:45	18°♋51'02	0°38'01
	10622 Apr 28 08:14	0°♍		max. Earth dist.	10623 Mar 12 08:06	28°♋59'38	1.44501 AU
evening max el	10622 May 06 15:51	10°♍26'19	19°41'58		10623 Mar 12 23:16	0°♎	
asc. node	10622 May 07 06:58	11°♍03'25		evening rise	10623 Mar 21 13:38	13°♎25'54	
retrograde	10622 May 14 00:28	14°♍37'43			10623 Apr 01 13:21	0°♏	
evening set	10622 May 17 17:57	13°♍16'43		evening max el	10623 Apr 19 16:35	24°♏09'31	20°45'21
inferior conj	10622 May 23 02:33	7°♍20'07	3°17'30	asc. node	10623 Apr 24 04:08	27°♏49'09	
minimum elong	10622 May 23 02:19	7°♍20'54	3°17'00	retrograde	10623 Apr 27 23:11	28°♏59'08	
min. Earth dist.	10622 May 24 05:35	5°♍50'01	0.67342 AU	evening set	10623 May 02 02:17	27°♏22'16	
morning rise	10622 May 28 10:20	1°♍00'03		inferior conj	10623 May 07 09:02	21°♏13'00	3°08'56
	10622 May 29 16:05	30°♎8		minimum elong	10623 May 07 07:50	21°♏17'10	3°08'25
direct	10622 Jun 03 09:02	28°♎22'02		min. Earth dist.	10623 May 07 22:08	20°♏27'47	0.68210 AU
	10622 Jun 08 14:52	0°♏		morning rise	10623 May 12 13:10	14°♏56'07	
desc. node	10622 Jun 10 03:21	0°♏58'35		direct	10623 May 17 23:13	12°♏32'20	
morning max el	10622 Jun 15 11:02	5°♏36'44	25°19'27	desc. node	10623 May 28 00:19	18°♏12'23	
	10622 Jul 04 06:31	0°♐		morning max el	10623 May 28 20:39	19°♏02'41	23°51'40
morning set	10622 Jul 21 11:47	28°♐18'45			10623 Jun 07 02:43	0°♑	
	10622 Jul 22 10:10	0°♑			10623 Jun 27 09:32	0°♒	
max. Earth dist.	10622 Jul 25 02:48	4°♑58'01	1.36350 AU	morning set	10623 Jul 03 04:50	9°♒39'42	
				max. Earth dist.	10623 Jul 07 00:11	16°♒16'48	1.38576 AU
superior conj	10622 Jul 31 08:30	17°♑00'25	-0°27'58				
minimum elong	10622 Jul 31 10:15	17°♑09'09	0°28'01	superior conj	10623 Jul 14 09:36	29°♒48'39	-1°01'18
asc. node	10622 Aug 03 06:18	22°♑50'38		minimum elong	10623 Jul 14 13:43	0°♓08'07	1°01'07
	10622 Aug 06 18:39	0°♒			10623 Jul 14 12:00	0°♓	
evening rise	10622 Aug 08 11:42	3°♒29'01		asc. node	10623 Jul 21 03:10	12°♓49'04	
	10622 Aug 23 23:46	0°♓		evening rise	10623 Jul 23 10:43	17°♓21'25	
evening max el	10622 Aug 25 21:36	2°♓04'12	19°49'25		10623 Jul 30 02:42	0°♔	
retrograde	10622 Sep 05 01:12	7°♓06'38		evening max el	10623 Aug 08 18:04	13°♔52'49	18°53'57
desc. node	10622 Sep 06 01:37	7°♓03'47		retrograde	10623 Aug 17 07:45	18°♔09'23	
evening set	10622 Sep 06 22:21	6°♓57'01		evening set	10623 Aug 19 05:31	17°♔57'29	
inferior conj	10622 Sep 15 20:16	2°♓55'29	-2°59'12	desc. node	10623 Aug 23 22:54	15°♔59'29	
minimum elong	10622 Sep 15 12:21	3°♓07'39	2°56'23	inferior conj	10623 Aug 27 11:08	13°♔39'20	-1°05'32
min. Earth dist.	10622 Sep 17 21:15	1°♓40'24	0.55187 AU	minimum elong	10623 Aug 27 08:21	13°♔44'16	1°04'38
	10622 Sep 20 20:19	30°♕♎		min. Earth dist.	10623 Aug 30 11:33	11°♕31'23	0.56606 AU
morning rise	10622 Sep 24 00:42	28°♕37'42		morning rise	10623 Sep 04 07:58	8°♕44'31	
direct	10622 Sep 28 18:47	27°♕48'08		direct	10623 Sep 09 20:56	7°♕31'18	
	10622 Oct 06 11:16	0°♖		morning max el	10623 Sep 24 02:53	14°♕52'21	26°10'33
morning max el	10622 Oct 12 13:31	4°♖37'12	24°33'33		10623 Oct 06 05:55	0°♗	
asc. node	10622 Oct 30 06:54	29°♖39'35		asc. node	10623 Oct 17 03:45	18°♗57'51	
	10622 Oct 30 11:18	0°♘		morning set	10623 Oct 22 11:31	29°♗53'19	
morning set	10622 Nov 07 00:38	15°♘11'39			10623 Oct 22 12:46	0°♙	
superior conj	10622 Nov 13 20:48	0°♙07'01	1°39'25	superior conj	10623 Oct 29 07:42	14°♙54'24	1°34'20
minimum elong	10622 Nov 13 20:23	0°♙04'44	1°39'52	minimum elong	10623 Oct 29 06:19	14°♙46'43	1°34'35
	10622 Nov 13 19:31	0°♚		max. Earth dist.	10623 Oct 30 03:30	16°♙44'11	1.31745 AU
max. Earth dist.	10622 Nov 15 20:47	4°♚28'09	1.32531 AU	evening rise	10623 Nov 05 06:41	0°♚01'22	
evening rise	10622 Nov 21 05:04	15°♚43'38			10623 Nov 05 06:26	0°♛	
	10622 Nov 28 14:46	0°♜		desc. node	10623 Nov 19 20:38	27°♚06'48	
desc. node	10622 Dec 02 23:32	7°♜37'38			10623 Nov 21 16:37	0°♞	
	10622 Dec 18 10:37	0°♞		evening max el	10623 Dec 06 22:34	19°♞14'42	27°18'31
evening max el	10622 Dec 24 14:48	6°♞40'15	27°30'44	retrograde	10623 Dec 20 19:40	26°♞28'50	
retrograde	10623 Jan 07 08:24	14°♞00'30		evening set	10623 Dec 27 19:35	24°♞15'28	
evening set	10623 Jan 14 07:57	11°♞32'40		min. Earth dist.	10623 Dec 31 13:01	21°♞27'42	0.61320 AU
min. Earth dist.	10623 Jan 18 02:06	8°♞20'58	0.63340 AU	inferior conj	10624 Jan 03 14:44	18°♞45'07	-3°03'04
inferior conj	10623 Jan 20 19:21	5°♞38'05	-1°47'55	minimum elong	10624 Jan 03 20:53	18°♞31'31	3°00'16
minimum elong	10623 Jan 20 22:52	5°♞29'19	1°46'01	morning rise	10624 Jan 11 00:47	13°♞48'47	
asc. node	10623 Jan 26 06:13	1°♞02'52		direct	10624 Jan 13 04:55	13°♞29'00	
morning rise	10623 Jan 27 15:54	0°♞22'50		asc. node	10624 Jan 13 03:22	13°♞29'02	
	10623 Jan 29 02:48	30°♞♜		morning max el	10624 Jan 20 05:53	17°♞01'47	17°53'17
direct	10623 Jan 30 00:38	29°♞55'58			10624 Jan 29 10:17	0°♟	
	10623 Jan 30 22:23	0°♟		morning set	10624 Feb 04 21:26	11°♟31'03	
morning max el	10623 Feb 05 13:48	3°♟18'06	17°47'14		10624 Feb 15 06:02	0°♠	

superior conj	10624 Feb 15 12:47	0° H 29'11	0°02'25		10625 Jan 02 08:58	0° Z	
minimum elong	10624 Feb 15 13:01	0° H 30'12	0°02'41	morning max el	10625 Jan 02 16:52	0° Z 18'53	18°18'51
behind sun begin	10624 Feb 15 04:46	29° \approx 54'31		morning set	10625 Jan 18 11:41	25° \approx 28'24	
behind sun end	10624 Feb 15 21:16	1° H 05'47			10625 Jan 20 20:47	0° \approx	
desc. node	10624 Feb 15 20:22	1° H 01'55					
max. Earth dist.	10624 Feb 22 22:43	12° H 57'30	1.42947 AU	superior conj	10625 Jan 27 18:42	12° \approx 55'05	0°37'28
evening rise	10624 Feb 29 08:55	23° H 16'02		minimum elong	10625 Jan 27 21:15	13° \approx 06'43	0°37'30
	10624 Mar 04 17:01	0° Y		desc. node	10625 Feb 01 17:09	21° \approx 43'55	
	10624 Mar 25 16:47	0° Z		max. Earth dist.	10625 Feb 04 08:20	26° \approx 16'32	1.40958 AU
evening max el	10624 Apr 01 11:56	7° Z 53'33	21°59'30		10625 Feb 06 13:15	0° H	
asc. node	10624 Apr 10 01:21	13° Z 22'46		evening rise	10625 Feb 08 22:43	3° H 57'46	
retrograde	10624 Apr 10 21:00	13° Z 26'03			10625 Feb 25 23:14	0° Y	
evening set	10624 Apr 15 10:36	11° Z 33'52		evening max el	10625 Mar 15 03:28	21° Y 40'18	23°19'25
inferior conj	10624 Apr 20 17:47	5° Z 14'15	2°49'47	retrograde	10625 Mar 25 16:22	27° Y 53'49	
minimum elong	10624 Apr 20 15:54	5° Z 20'49	2°49'09	asc. node	10625 Mar 27 22:37	27° Y 29'22	
min. Earth dist.	10624 Apr 20 17:55	5° Z 13'44	0.68618 AU	evening set	10625 Mar 30 17:23	25° Y 47'25	
	10624 Apr 24 20:43	30° R Y		min. Earth dist.	10625 Apr 04 14:47	20° Y 02'17	0.68582 AU
morning rise	10624 Apr 25 21:01	29° Y 02'06		inferior conj	10625 Apr 05 02:50	19° Y 20'43	2°20'56
direct	10624 Apr 30 17:36	26° Y 57'32		minimum elong	10625 Apr 05 00:40	19° Y 28'15	2°20'13
	10624 May 07 11:24	0° Z		morning rise	10625 Apr 10 07:52	13° Y 14'34	
morning max el	10624 May 10 08:03	2° Z 36'31	22°22'14	direct	10625 Apr 14 15:06	11° Y 31'27	
desc. node	10624 May 13 21:13	6° Z 29'04		morning max el	10625 Apr 23 00:31	16° Y 20'35	20°59'23
	10624 May 31 02:35	0° II		desc. node	10625 Apr 30 18:03	25° Y 31'28	
morning set	10624 Jun 12 20:44	19° II 51'24			10625 May 04 01:03	0° Z	
max. Earth dist.	10624 Jun 17 22:38	28° II 15'50	1.40858 AU	morning set	10625 May 23 10:51	28° Z 54'25	
	10624 Jun 18 23:14	0° Z			10625 May 24 03:36	0° II	
				max. Earth dist.	10625 May 31 02:51	11° II 07'43	1.42916 AU
superior conj	10624 Jun 25 17:38	11° Z 48'17	-1°33'15				
minimum elong	10624 Jun 25 23:44	12° Z 15'37	1°33'02	superior conj	10625 Jun 07 04:12	22° II 50'30	-1°59'05
evening rise	10624 Jul 05 23:43	0° Z 43'20		minimum elong	10625 Jun 07 10:13	23° II 16'01	1°59'11
	10624 Jul 05 14:28	0° Z			10625 Jun 11 08:19	0° Z	
asc. node	10624 Jul 07 00:05	2° Z 37'27		evening rise	10625 Jun 18 22:28	13° Z 24'45	
evening max el	10624 Jul 22 00:12	26° Z 21'23	18°19'27	asc. node	10625 Jun 23 21:04	22° Z 11'31	
	10624 Jul 28 08:46	0° H			10625 Jun 28 12:05	0° Z	
retrograde	10624 Jul 29 09:12	0° H 04'14		evening max el	10625 Jul 05 12:04	9° Z 21'04	18°04'53
	10624 Jul 30 09:52	30° R Z		retrograde	10625 Jul 12 03:36	12° Z 45'14	
evening set	10624 Jul 31 13:26	29° Z 45'34		evening set	10625 Jul 14 15:47	12° Z 16'11	
inferior conj	10624 Aug 07 23:42	25° Z 07'18	0°33'28	inferior conj	10625 Jul 21 08:34	7° Z 17'53	1°47'27
minimum elong	10624 Aug 08 00:50	25° Z 04'55	0°32'42	minimum elong	10625 Jul 21 11:15	7° Z 11'24	1°46'10
desc. node	10624 Aug 09 20:10	23° Z 34'15		min. Earth dist.	10625 Jul 24 13:02	4° Z 15'07	0.60882 AU
min. Earth dist.	10624 Aug 11 08:17	22° Z 20'48	0.58614 AU	desc. node	10625 Jul 27 17:23	1° Z 39'27	
morning rise	10624 Aug 15 08:45	19° Z 36'51		morning rise	10625 Jul 28 04:01	1° Z 21'29	
direct	10624 Aug 21 13:36	17° Z 54'14			10625 Jul 30 16:58	30° R Z	
morning max el	10624 Sep 04 22:38	25° Z 38'43	27°20'48	direct	10625 Aug 03 18:42	29° Z 10'25	
	10624 Sep 09 00:09	0° H			10625 Aug 08 00:45	0° Z	
	10624 Sep 28 15:03	0° Z		morning max el	10625 Aug 18 01:14	7° Z 08'41	27°54'30
asc. node	10624 Oct 03 00:34	8° Z 35'44			10625 Sep 04 09:18	0° H	
morning set	10624 Oct 05 19:45	14° Z 23'53		morning set	10625 Sep 19 23:30	28° H 38'33	
				asc. node	10625 Sep 19 21:23	28° H 27'35	
superior conj	10624 Oct 12 19:28	29° Z 40'34	1°23'38		10625 Sep 20 15:09	0° Z	
minimum elong	10624 Oct 12 17:27	29° Z 29'18	1°23'36	max. Earth dist.	10625 Sep 25 20:50	11° Z 15'50	1.31628 AU
max. Earth dist.	10624 Oct 12 12:44	29° Z 03'05	1.31439 AU				
	10624 Oct 12 22:58	0° H		superior conj	10625 Sep 27 06:18	14° Z 20'22	1°07'34
evening rise	10624 Oct 19 13:36	14° H 31'18		minimum elong	10625 Sep 27 04:03	14° Z 07'57	1°07'18
	10624 Oct 27 06:25	0° Z		evening rise	10625 Oct 03 23:46	29° Z 07'57	
desc. node	10624 Nov 05 17:49	15° Z 56'45			10625 Oct 04 09:28	0° H	
	10624 Nov 16 22:33	0° Z			10625 Oct 20 20:15	0° Z	
evening max el	10624 Nov 17 23:42	1° Z 01'08	26°32'15	desc. node	10625 Oct 23 15:02	3° Z 52'02	
retrograde	10624 Dec 01 22:09	8° Z 08'08		evening max el	10625 Oct 30 16:48	11° Z 56'26	25°14'56
evening set	10624 Dec 08 13:36	6° Z 19'09		retrograde	10625 Nov 13 13:40	18° Z 54'50	
min. Earth dist.	10624 Dec 12 13:28	3° Z 43'28	0.59191 AU	evening set	10625 Nov 19 09:12	17° Z 38'02	
inferior conj	10624 Dec 15 17:40	1° Z 16'49	-4°17'10	min. Earth dist.	10625 Nov 24 04:53	14° Z 57'43	0.57187 AU
minimum elong	10624 Dec 16 01:36	1° Z 01'30	4°14'21	inferior conj	10625 Nov 27 01:01	13° Z 03'47	-5°17'57
	10624 Dec 17 10:16	30° R Z		minimum elong	10625 Nov 27 07:44	12° Z 52'30	5°16'20
morning rise	10624 Dec 23 16:19	26° Z 42'02		morning rise	10625 Dec 05 08:33	8° Z 51'11	
direct	10624 Dec 25 19:31	26° Z 25'56		direct	10625 Dec 07 16:32	8° Z 35'11	
asc. node	10624 Dec 30 00:29	27° Z 32'06		asc. node	10625 Dec 16 21:34	13° Z 04'34	

morning max el	10625 Dec 16 18:46	12° \mathbb{A} 57'48	19°05'46	asc. node	10626 Dec 03 18:34	29° \mathbb{M} 51'34	
	10625 Dec 28 09:08	0° \mathbb{B}			10626 Dec 03 21:06	0° \mathbb{A}	
morning set	10626 Jan 02 11:31	9° \mathbb{B} 50'55		morning set	10626 Dec 17 17:37	24° \mathbb{A} 29'06	
					10626 Dec 20 09:59	0° \mathbb{B}	
superior conj	10626 Jan 10 18:45	26° \mathbb{B} 11'15	1°04'35				
minimum elong	10626 Jan 10 21:50	26° \mathbb{B} 26'04	1°04'42	superior conj	10626 Dec 25 08:16	10° \mathbb{B} 04'45	1°23'37
	10626 Jan 12 18:45	0° \mathbb{A}		minimum elong	10626 Dec 25 10:47	10° \mathbb{B} 17'26	1°23'55
max. Earth dist.	10626 Jan 17 14:42	8° \mathbb{A} 54'05	1.38765 AU	max. Earth dist.	10626 Dec 30 21:57	21° \mathbb{B} 00'40	1.36610 AU
desc. node	10626 Jan 19 14:00	12° \mathbb{A} 24'17		evening rise	10627 Jan 03 17:11	28° \mathbb{B} 05'20	
evening rise	10626 Jan 21 10:03	15° \mathbb{A} 36'02			10627 Jan 04 18:34	0° \mathbb{A}	
	10626 Jan 30 03:50	0° \mathbb{H}		desc. node	10627 Jan 06 10:55	2° \mathbb{A} 59'12	
	10626 Feb 20 15:53	0° \mathbb{Y}			10627 Jan 23 12:15	0° \mathbb{H}	
evening max el	10626 Feb 25 17:14	5° \mathbb{Y} 30'04	24°38'52	evening max el	10627 Feb 08 06:41	19° \mathbb{H} 20'02	25°50'45
retrograde	10626 Mar 09 07:55	12° \mathbb{Y} 16'43		retrograde	10627 Feb 20 18:41	26° \mathbb{H} 29'11	
evening set	10626 Mar 14 21:01	9° \mathbb{Y} 57'53		evening set	10627 Feb 26 19:54	24° \mathbb{H} 00'41	
asc. node	10626 Mar 14 19:53	10° \mathbb{Y} 00'17		asc. node	10627 Mar 01 17:08	21° \mathbb{H} 06'15	
min. Earth dist.	10626 Mar 19 10:23	4° \mathbb{Y} 47'54	0.68124 AU	min. Earth dist.	10627 Mar 03 02:29	19° \mathbb{H} 25'43	0.67259 AU
inferior conj	10626 Mar 20 10:20	3° \mathbb{Y} 28'11	1°42'44	inferior conj	10627 Mar 04 14:18	17° \mathbb{H} 32'54	0°55'17
minimum elong	10626 Mar 20 08:18	3° \mathbb{Y} 34'56	1°42'04	minimum elong	10627 Mar 04 12:59	17° \mathbb{H} 37'04	0°54'55
	10626 Mar 23 04:12	30° \mathbb{R} \mathbb{H}		morning rise	10627 Mar 10 06:38	11° \mathbb{H} 43'27	
morning rise	10626 Mar 25 19:45	27° \mathbb{H} 29'30		direct	10627 Mar 13 13:42	10° \mathbb{H} 41'25	
direct	10626 Mar 29 14:21	26° \mathbb{H} 07'48		morning max el	10627 Mar 20 07:58	14° \mathbb{H} 21'37	18°53'10
	10626 Apr 05 17:46	0° \mathbb{Y}			10627 Apr 01 03:13	0° \mathbb{Y}	
morning max el	10626 Apr 06 00:23	0° \mathbb{Y} 16'07	19°48'40	greatest brilliancy	10627 Apr 04 01:31	4° \mathbb{Y} 27'24	-0.8m
desc. node	10626 Apr 17 14:50	15° \mathbb{Y} 06'43		desc. node	10627 Apr 04 11:36	5° \mathbb{Y} 06'08	
greatest brilliancy	10626 Apr 19 00:10	17° \mathbb{Y} 07'45	-0.6m	morning set	10627 Apr 11 17:28	16° \mathbb{Y} 19'31	
	10626 Apr 27 14:40	0° \mathbb{B}			10627 Apr 20 12:11	0° \mathbb{B}	
morning set	10626 May 02 10:08	7° \mathbb{B} 21'34		max. Earth dist.	10627 Apr 26 07:32	9° \mathbb{B} 04'33	1.45443 AU
max. Earth dist.	10626 May 13 14:20	24° \mathbb{B} 48'41	1.44502 AU				
	10626 May 16 20:18	0° \mathbb{H}		superior conj	10627 Apr 28 03:55	11° \mathbb{B} 58'42	-2°07'16
				minimum elong	10627 Apr 27 22:16	11° \mathbb{B} 36'29	2°07'22
superior conj	10626 May 18 14:29	2° \mathbb{H} 49'58	-2°12'28		10627 May 09 12:10	0° \mathbb{H}	
minimum elong	10626 May 18 16:13	2° \mathbb{H} 57'02	2°12'54	evening rise	10627 May 13 06:18	6° \mathbb{H} 03'31	
evening rise	10626 Jun 01 02:00	25° \mathbb{H} 13'49		asc. node	10627 May 28 15:10	0° \mathbb{B} 10'41	
	10626 Jun 03 21:23	0° \mathbb{B}			10627 May 28 12:06	0° \mathbb{B}	
asc. node	10626 Jun 10 18:06	11° \mathbb{B} 25'03		evening max el	10627 Jun 02 14:38	6° \mathbb{B} 14'51	18°31'55
evening max el	10626 Jun 19 01:56	22° \mathbb{B} 41'44	18°09'19	retrograde	10627 Jun 09 02:15	9° \mathbb{B} 45'43	
retrograde	10626 Jun 25 10:43	26° \mathbb{B} 02'18		evening set	10627 Jun 12 06:18	8° \mathbb{B} 49'08	
evening set	10626 Jun 28 06:51	25° \mathbb{B} 20'14		inferior conj	10627 Jun 17 23:27	3° \mathbb{B} 15'28	3°05'15
inferior conj	10626 Jul 04 09:51	20° \mathbb{B} 03'23	2°36'44	minimum elong	10627 Jun 18 01:03	3° \mathbb{B} 10'39	3°04'29
minimum elong	10626 Jul 04 12:24	19° \mathbb{B} 56'26	2°35'38	min. Earth dist.	10627 Jun 20 01:52	0° \mathbb{B} 44'16	0.65054 AU
min. Earth dist.	10626 Jul 07 02:50	17° \mathbb{B} 07'19	0.63098 AU		10627 Jun 20 17:12	30° \mathbb{R} \mathbb{H}	
morning rise	10626 Jul 10 16:15	13° \mathbb{B} 51'27		morning rise	10627 Jun 23 18:51	26° \mathbb{H} 56'06	
desc. node	10626 Jul 14 14:33	11° \mathbb{B} 44'56		direct	10627 Jun 30 08:10	24° \mathbb{H} 13'29	
direct	10626 Jul 17 09:25	11° \mathbb{B} 19'23		desc. node	10627 Jul 01 11:40	24° \mathbb{H} 17'58	
morning max el	10626 Jul 31 09:01	19° \mathbb{B} 21'48	27°49'57		10627 Jul 11 13:38	0° \mathbb{B}	
	10626 Aug 09 09:52	0° \mathbb{Q}		morning max el	10627 Jul 13 19:30	2° \mathbb{B} 09'08	27°11'04
	10626 Aug 28 08:19	0° \mathbb{H}			10627 Aug 03 15:13	0° \mathbb{Q}	
morning set	10626 Sep 03 20:36	12° \mathbb{H} 31'51		morning set	10627 Aug 18 08:14	25° \mathbb{Q} 55'40	
asc. node	10626 Sep 06 18:12	18° \mathbb{H} 28'39			10627 Aug 20 10:01	0° \mathbb{H}	
max. Earth dist.	10626 Sep 09 00:10	23° \mathbb{H} 13'29	1.32319 AU	max. Earth dist.	10627 Aug 22 19:03	4° \mathbb{H} 47'22	1.33516 AU
				asc. node	10627 Aug 24 14:59	8° \mathbb{H} 33'46	
superior conj	10626 Sep 11 14:18	28° \mathbb{H} 48'20	0°46'25				
minimum elong	10626 Sep 11 12:22	28° \mathbb{H} 37'48	0°46'00	superior conj	10627 Aug 26 17:17	12° \mathbb{H} 57'33	0°20'33
	10626 Sep 12 03:28	0° \mathbb{B}		minimum elong	10627 Aug 26 16:15	12° \mathbb{H} 52'09	0°20'09
evening rise	10626 Sep 18 11:15	13° \mathbb{B} 46'06		evening rise	10627 Sep 02 22:05	28° \mathbb{H} 19'10	
	10626 Sep 26 12:52	0° \mathbb{M}			10627 Sep 03 17:13	0° \mathbb{B}	
desc. node	10626 Oct 10 12:17	20° \mathbb{M} 32'06			10627 Sep 21 11:30	0° \mathbb{M}	
evening max el	10626 Oct 12 04:00	22° \mathbb{M} 13'09	23°37'53	evening max el	10627 Sep 23 16:48	2° \mathbb{M} 21'31	21°58'12
retrograde	10626 Oct 25 16:17	28° \mathbb{M} 57'41		desc. node	10627 Sep 27 09:33	5° \mathbb{M} 29'03	
evening set	10626 Oct 30 04:28	28° \mathbb{M} 13'28		retrograde	10627 Oct 06 07:42	8° \mathbb{M} 38'23	
min. Earth dist.	10626 Nov 05 14:09	25° \mathbb{M} 10'07	0.55599 AU	evening set	10627 Oct 09 08:59	8° \mathbb{M} 17'31	
inferior conj	10626 Nov 07 12:07	24° \mathbb{M} 01'58	-5°45'59	inferior conj	10627 Oct 18 07:50	4° \mathbb{M} 19'08	-5°21'24
minimum elong	10626 Nov 07 12:42	24° \mathbb{M} 01'05	5°45'34	minimum elong	10627 Oct 18 00:27	4° \mathbb{M} 29'29	5°19'57
morning rise	10626 Nov 15 22:48	20° \mathbb{M} 08'11		min. Earth dist.	10627 Oct 17 21:09	4° \mathbb{M} 34'06	0.54714 AU
direct	10626 Nov 18 18:25	19° \mathbb{M} 48'33		morning rise	10627 Oct 26 17:19	0° \mathbb{M} 31'57	
morning max el	10626 Nov 29 08:08	24° \mathbb{M} 48'53	20°15'27	direct	10627 Oct 30 05:20	0° \mathbb{M} 05'00	

morning max el	10627 Nov 11 07:55	5° \mathbb{M} 48'42	21°46'39	inferior conj	10628 Sep 27 00:29	14° \mathbb{A} 22'43	-4°01'32
asc. node	10627 Nov 20 15:30	17° \mathbb{M} 36'38		minimum elong	10628 Sep 26 14:44	14° \mathbb{A} 36'51	3°58'29
	10627 Nov 27 14:25	0° \mathbb{A}		min. Earth dist.	10628 Sep 28 05:36	13° \mathbb{A} 40'28	0.54741 AU
morning set	10627 Dec 02 03:26	9° \mathbb{A} 14'55		morning rise	10628 Oct 05 07:15	10° \mathbb{A} 21'10	
				direct	10628 Oct 09 13:50	9° \mathbb{A} 41'54	
superior conj	10627 Dec 09 07:18	24° \mathbb{A} 23'50	1°35'05	morning max el	10628 Oct 22 21:50	16° \mathbb{A} 09'29	23°31'59
minimum elong	10627 Dec 09 08:44	24° \mathbb{A} 31'23	1°35'32		10628 Nov 02 20:48	0° \mathbb{M}	
	10627 Dec 12 00:09	0° \mathbb{B}		asc. node	10628 Nov 06 12:24	6° \mathbb{M} 06'15	
max. Earth dist.	10627 Dec 13 10:16	2° \mathbb{B} 53'20	1.34704 AU	morning set	10628 Nov 15 15:00	24° \mathbb{M} 02'52	
evening rise	10627 Dec 17 16:34	11° \mathbb{B} 15'58			10628 Nov 18 09:23	0° \mathbb{A}	
desc. node	10627 Dec 24 07:52	23° \mathbb{B} 23'43					
	10627 Dec 28 05:20	0° \mathbb{A}		superior conj	10628 Nov 22 12:49	8° \mathbb{A} 59'41	1°39'40
	10628 Jan 18 20:50	0° \mathbb{H}		minimum elong	10628 Nov 22 13:03	9° \mathbb{A} 00'57	1°40'09
evening max el	10628 Jan 21 20:06	3° \mathbb{H} 02'49	26°47'55	max. Earth dist.	10628 Nov 25 06:19	14° \mathbb{A} 50'11	1.33190 AU
retrograde	10628 Feb 03 24:00	10° \mathbb{H} 23'56		evening rise	10628 Nov 30 04:36	24° \mathbb{A} 59'13	
evening set	10628 Feb 10 12:11	7° \mathbb{H} 50'13			10628 Dec 02 17:59	0° \mathbb{B}	
min. Earth dist.	10628 Feb 14 12:54	3° \mathbb{H} 49'32	0.66000 AU	desc. node	10628 Dec 10 04:52	13° \mathbb{B} 32'29	
inferior conj	10628 Feb 16 12:38	1° \mathbb{H} 30'04	-0°01'24		10628 Dec 20 17:05	0° \mathbb{A}	
minimum elong	10628 Feb 16 12:40	1° \mathbb{H} 29'59	0°01'06	evening max el	10629 Jan 03 08:52	16° \mathbb{A} 28'50	27°23'07
transit middle	10628 Feb 16 12:40	1° \mathbb{H} 29'59	0°01'06	retrograde	10629 Jan 16 23:11	23° \mathbb{A} 52'13	
transit begin	10628 Feb 16 09:43	1° \mathbb{H} 38'36		evening set	10629 Jan 23 19:38	21° \mathbb{A} 19'51	
transit end	10628 Feb 16 15:36	1° \mathbb{H} 21'23		min. Earth dist.	10629 Jan 27 15:35	17° \mathbb{A} 51'22	0.64389 AU
asc. node	10628 Feb 16 14:21	1° \mathbb{H} 25'03		inferior conj	10629 Jan 30 02:51	15° \mathbb{A} 13'45	-1°06'52
	10628 Feb 17 19:55	30° \mathbb{R} \mathbb{A}		minimum elong	10629 Jan 30 04:55	15° \mathbb{A} 08'14	1°05'35
morning rise	10628 Feb 22 14:18	25° \mathbb{A} 51'58		asc. node	10629 Feb 02 11:33	11° \mathbb{A} 54'37	
direct	10628 Feb 25 11:11	25° \mathbb{A} 06'36		morning rise	10629 Feb 05 16:02	9° \mathbb{A} 49'26	
morning max el	10628 Mar 02 21:37	28° \mathbb{A} 31'24	18°14'09	direct	10629 Feb 08 04:29	9° \mathbb{A} 17'01	
	10628 Mar 04 07:16	0° \mathbb{H}		morning max el	10629 Feb 14 14:40	12° \mathbb{A} 37'34	17°52'04
desc. node	10628 Mar 21 08:22	25° \mathbb{H} 23'07			10629 Feb 26 17:48	0° \mathbb{H}	
morning set	10628 Mar 22 02:39	26° \mathbb{H} 36'38		morning set	10629 Mar 03 16:36	8° \mathbb{H} 17'55	
	10628 Mar 24 05:17	0° \mathbb{Y}		desc. node	10629 Mar 08 05:06	15° \mathbb{H} 52'05	
					10629 Mar 16 20:22	0° \mathbb{Y}	
superior conj	10628 Apr 06 10:15	20° \mathbb{Y} 55'57	-1°42'10				
minimum elong	10628 Apr 06 00:45	20° \mathbb{Y} 18'41	1°41'25	superior conj	10629 Mar 17 03:48	0° \mathbb{Y} 29'51	-1°03'24
max. Earth dist.	10628 Apr 08 03:12	23° \mathbb{Y} 36'13	1.45647 AU	minimum elong	10629 Mar 16 20:54	0° \mathbb{Y} 02'07	1°02'27
	10628 Apr 12 05:30	0° \mathbb{B}		max. Earth dist.	10629 Mar 21 22:27	8° \mathbb{Y} 05'58	1.45111 AU
evening rise	10628 Apr 22 11:28	15° \mathbb{B} 58'44		evening rise	10629 Apr 02 01:09	25° \mathbb{Y} 22'03	
	10628 May 01 12:02	0° \mathbb{H}			10629 Apr 05 01:52	0° \mathbb{B}	
greatest brilliancy	10628 May 03 20:22	3° \mathbb{H} 35'25	-0.7m	greatest brilliancy	10629 Apr 17 02:02	17° \mathbb{B} 58'26	-0.6m
asc. node	10628 May 14 12:17	18° \mathbb{H} 19'39			10629 Apr 25 22:15	0° \mathbb{H}	
evening max el	10628 May 15 23:46	19° \mathbb{H} 54'44	19°11'45	evening max el	10629 Apr 29 03:44	3° \mathbb{H} 37'09	20°07'21
retrograde	10628 May 22 22:41	23° \mathbb{H} 48'35		asc. node	10629 May 01 09:26	5° \mathbb{H} 39'46	
evening set	10628 May 26 11:00	22° \mathbb{H} 36'41		retrograde	10629 May 06 21:13	8° \mathbb{H} 04'20	
inferior conj	10628 May 31 21:50	16° \mathbb{H} 47'52	3°17'01	evening set	10629 May 10 18:34	6° \mathbb{H} 36'46	
minimum elong	10628 May 31 22:15	16° \mathbb{H} 46'32	3°16'29	inferior conj	10629 May 16 02:05	0° \mathbb{H} 34'32	3°15'14
min. Earth dist.	10628 Jun 02 09:15	14° \mathbb{H} 53'24	0.66628 AU	minimum elong	10629 May 16 01:24	0° \mathbb{H} 36'51	3°14'45
morning rise	10628 Jun 06 09:00	10° \mathbb{H} 26'46			10629 May 16 12:14	30° \mathbb{R} \mathbb{B}	
direct	10628 Jun 12 13:51	7° \mathbb{H} 44'16		min. Earth dist.	10629 May 16 23:07	29° \mathbb{B} 23'06	0.67764 AU
desc. node	10628 Jun 17 08:43	9° \mathbb{H} 03'03		morning rise	10629 May 21 07:56	24° \mathbb{B} 15'19	
morning max el	10628 Jun 25 06:16	15° \mathbb{H} 19'05	26°05'30	direct	10629 May 27 01:25	21° \mathbb{B} 42'23	
	10628 Jul 07 07:29	0° \mathbb{B}		desc. node	10629 Jun 04 05:43	25° \mathbb{B} 30'17	
	10628 Jul 26 11:09	0° \mathbb{Q}		morning max el	10629 Jun 07 16:00	28° \mathbb{B} 40'23	24°42'50
morning set	10628 Jul 31 06:59	8° \mathbb{Q} 41'32			10629 Jun 08 22:33	0° \mathbb{H}	
max. Earth dist.	10628 Aug 04 03:23	15° \mathbb{Q} 58'46	1.35195 AU		10629 Jul 01 01:33	0° \mathbb{B}	
				morning set	10629 Jul 13 12:21	20° \mathbb{B} 37'15	
superior conj	10628 Aug 09 12:46	26° \mathbb{Q} 41'48	-0°09'22	max. Earth dist.	10629 Jul 17 02:38	27° \mathbb{B} 03'58	1.37274 AU
minimum elong	10628 Aug 09 13:20	26° \mathbb{Q} 44'40	0°09'36		10629 Jul 18 16:55	0° \mathbb{Q}	
behind sun begin	10628 Aug 09 08:27	26° \mathbb{Q} 19'47					
behind sun end	10628 Aug 09 18:13	27° \mathbb{Q} 09'35		superior conj	10629 Jul 23 21:40	9° \mathbb{Q} 52'59	-0°42'03
asc. node	10628 Aug 10 11:47	28° \mathbb{Q} 39'24		minimum elong	10629 Jul 24 00:24	10° \mathbb{Q} 06'18	0°42'00
	10628 Aug 11 03:28	0° \mathbb{H}		asc. node	10629 Jul 28 08:38	18° \mathbb{Q} 41'25	
evening rise	10628 Aug 17 06:16	12° \mathbb{H} 41'45		evening rise	10629 Aug 01 09:25	26° \mathbb{Q} 46'55	
	10628 Aug 26 05:28	0° \mathbb{A}			10629 Aug 03 00:11	0° \mathbb{H}	
evening max el	10628 Sep 04 16:13	12° \mathbb{A} 58'08	20°30'51	evening max el	10629 Aug 18 05:33	24° \mathbb{H} 20'35	19°23'12
desc. node	10628 Sep 13 06:49	18° \mathbb{A} 13'18		retrograde	10629 Aug 27 16:17	29° \mathbb{H} 02'07	
retrograde	10628 Sep 15 19:45	18° \mathbb{A} 30'05		evening set	10629 Aug 29 12:24	28° \mathbb{H} 52'13	
evening set	10628 Sep 17 21:46	18° \mathbb{A} 19'19		desc. node	10629 Aug 31 04:05	28° \mathbb{H} 27'26	

































































































































inferior conj	10629 Sep 07 04:20	24° \mathbb{M} 44'55	-2°10'29	inferior conj	10630 Aug 19 04:18	5° \mathbb{M} 46'49	-0°20'45
minimum elong	10629 Sep 06 22:31	24° \mathbb{M} 54'21	2°08'21	minimum elong	10630 Aug 19 03:28	5° \mathbb{M} 48'23	0°20'41
min. Earth dist.	10629 Sep 09 17:24	23° \mathbb{M} 05'53	0.55701 AU	min. Earth dist.	10630 Aug 22 10:05	3° \mathbb{M} 20'10	0.57416 AU
morning rise	10629 Sep 15 06:03	20° \mathbb{M} 11'43		morning rise	10630 Aug 26 20:34	0° \mathbb{M} 36'23	
direct	10629 Sep 20 08:27	19° \mathbb{M} 12'43			10630 Aug 28 06:58	30° \mathbb{R} 02	
morning max el	10629 Oct 04 09:13	26° \mathbb{M} 17'17	25°17'06	direct	10630 Sep 01 17:11	29° \mathbb{J} 10'49	
	10629 Oct 07 22:23	0° \mathbb{L}			10630 Sep 06 05:02	0° \mathbb{M}	
asc. node	10629 Oct 24 09:16	25° \mathbb{L} 09'24		morning max el	10630 Sep 16 00:45	6° \mathbb{M} 42'22	26°44'26
	10629 Oct 26 20:48	0° \mathbb{M}			10630 Oct 03 07:53	0° \mathbb{L}	
morning set	10629 Oct 31 02:37	8° \mathbb{M} 48'14		asc. node	10630 Oct 11 06:06	14° \mathbb{L} 36'45	
				morning set	10630 Oct 15 12:35	23° \mathbb{L} 25'35	
					10630 Oct 18 13:25	0° \mathbb{M}	
superior conj	10629 Nov 06 22:23	23° \mathbb{M} 44'59	1°37'58	superior conj	10630 Oct 22 09:53	8° \mathbb{M} 32'30	1°30'27
minimum elong	10629 Nov 06 21:31	23° \mathbb{M} 40'15	1°38'21	minimum elong	10630 Oct 22 08:11	8° \mathbb{M} 23'02	1°30'36
max. Earth dist.	10629 Nov 08 09:51	26° \mathbb{M} 59'49	1.32134 AU	max. Earth dist.	10630 Oct 22 18:08	9° \mathbb{M} 18'25	1.31558 AU
	10629 Nov 09 18:55	0° \mathbb{J}		evening rise	10630 Oct 29 06:16	23° \mathbb{M} 30'59	
evening rise	10629 Nov 14 02:06	9° \mathbb{J} 07'00			10630 Nov 01 09:29	0° \mathbb{J}	
	10629 Nov 25 02:45	0° \mathbb{Z}		desc. node	10630 Nov 13 23:03	22° \mathbb{J} 32'49	
desc. node	10629 Nov 27 01:55	3° \mathbb{Z} 18'49			10630 Nov 19 00:38	0° \mathbb{Z}	
evening max el	10629 Dec 16 19:21	29° \mathbb{Z} 26'47	27°29'47	evening max el	10630 Nov 29 00:52	11° \mathbb{Z} 42'40	27°03'07
	10629 Dec 17 09:36	0° \mathbb{X}		retrograde	10630 Dec 12 22:45	18° \mathbb{Z} 53'04	
retrograde	10629 Dec 30 15:13	6° \mathbb{X} 45'14		evening set	10630 Dec 19 20:13	16° \mathbb{Z} 49'20	
evening set	10630 Jan 06 15:33	4° \mathbb{X} 22'34		min. Earth dist.	10630 Dec 23 15:25	14° \mathbb{Z} 08'15	0.60414 AU
min. Earth dist.	10630 Jan 10 08:53	1° \mathbb{X} 21'50	0.62493 AU	inferior conj	10630 Dec 26 18:59	11° \mathbb{Z} 30'44	-3°35'11
	10630 Jan 11 19:41	30° \mathbb{R} 03		minimum elong	10630 Dec 27 02:06	11° \mathbb{Z} 15'52	3°32'15
inferior conj	10630 Jan 13 06:08	28° \mathbb{Z} 37'20	-2°19'27	morning rise	10631 Jan 03 10:36	6° \mathbb{Z} 42'56	
minimum elong	10630 Jan 13 10:46	28° \mathbb{Z} 26'17	2°17'07	direct	10631 Jan 05 13:52	6° \mathbb{Z} 25'03	
morning rise	10630 Jan 20 08:22	23° \mathbb{Z} 29'37		asc. node	10631 Jan 07 05:54	6° \mathbb{Z} 36'23	
asc. node	10630 Jan 20 08:44	23° \mathbb{Z} 29'19		morning max el	10631 Jan 12 22:21	10° \mathbb{Z} 05'23	18°01'38
direct	10630 Jan 22 14:39	23° \mathbb{Z} 06'18			10631 Jan 25 23:25	0° \mathbb{X}	
morning max el	10630 Jan 29 08:03	26° \mathbb{Z} 32'14	17°47'32	morning set	10631 Jan 28 13:05	4° \mathbb{X} 44'20	
	10630 Feb 01 08:09	0° \mathbb{X}					
morning set	10630 Feb 14 06:15	21° \mathbb{X} 07'20		superior conj	10631 Feb 07 13:30	22° \mathbb{X} 59'53	0°18'11
	10630 Feb 19 07:33	0° \mathbb{H}		minimum elong	10631 Feb 07 14:59	23° \mathbb{X} 06'24	0°18'19
desc. node	10630 Feb 23 01:51	6° \mathbb{H} 29'10		desc. node	10631 Feb 09 22:37	27° \mathbb{X} 10'02	
					10631 Feb 11 14:03	0° \mathbb{H}	
superior conj	10630 Feb 25 20:19	11° \mathbb{H} 10'14	-0°20'48	max. Earth dist.	10631 Feb 15 04:05	6° \mathbb{H} 03'07	1.42146 AU
minimum elong	10630 Feb 25 18:16	11° \mathbb{H} 01'38	0°20'17	evening rise	10631 Feb 20 16:34	15° \mathbb{H} 03'04	
max. Earth dist.	10630 Mar 04 15:16	22° \mathbb{H} 19'42	1.43903 AU		10631 Mar 02 08:45	0° \mathbb{Y}	
	10630 Mar 09 11:03	0° \mathbb{Y}			10631 Mar 24 18:09	0° \mathbb{Z}	
evening rise	10630 Mar 12 14:13	4° \mathbb{Y} 52'50		evening max el	10631 Mar 25 19:49	1° \mathbb{Z} 06'16	22°33'11
	10630 Mar 29 11:06	0° \mathbb{Z}		retrograde	10631 Apr 04 16:31	6° \mathbb{Z} 56'07	
evening max el	10630 Apr 12 02:11	17° \mathbb{Z} 21'02	21°15'53	asc. node	10631 Apr 05 03:55	6° \mathbb{Z} 55'01	
asc. node	10630 Apr 18 06:39	21° \mathbb{Z} 56'55		evening set	10631 Apr 09 10:58	4° \mathbb{Z} 57'40	
retrograde	10630 Apr 20 19:42	22° \mathbb{Z} 28'30			10631 Apr 13 18:19	30° \mathbb{R} 00	
evening set	10630 Apr 25 03:06	20° \mathbb{Z} 45'13		inferior conj	10631 Apr 14 18:55	28° \mathbb{Y} 34'51	2°38'44
inferior conj	10630 Apr 30 09:48	14° \mathbb{Z} 31'28	3°02'03	minimum elong	10631 Apr 14 16:51	28° \mathbb{Y} 42'01	2°38'01
minimum elong	10630 Apr 30 08:16	14° \mathbb{Z} 36'48	3°01'28	min. Earth dist.	10631 Apr 14 13:49	28° \mathbb{Y} 52'36	0.68660 AU
min. Earth dist.	10630 Apr 30 17:22	14° \mathbb{Z} 05'08	0.68442 AU	morning rise	10631 Apr 19 22:36	22° \mathbb{Y} 25'18	
morning rise	10630 May 05 13:13	8° \mathbb{Z} 16'22		direct	10631 Apr 24 13:33	20° \mathbb{Y} 29'39	
direct	10630 May 10 17:42	6° \mathbb{Z} 00'00		morning max el	10631 May 03 14:55	25° \mathbb{Y} 46'04	21°45'51
morning max el	10630 May 21 01:49	12° \mathbb{Z} 08'46	23°13'12		10631 May 07 11:08	0° \mathbb{Z}	
desc. node	10630 May 22 02:41	13° \mathbb{Z} 13'06		desc. node	10631 May 08 23:33	1° \mathbb{Z} 50'38	
	10630 Jun 04 08:32	0° \mathbb{H}			10631 May 28 20:00	0° \mathbb{H}	
	10630 Jun 23 21:38	0° \mathbb{L}		morning set	10631 Jun 04 23:45	11° \mathbb{H} 10'45	
morning set	10630 Jun 24 19:12	1° \mathbb{L} 29'45		max. Earth dist.	10631 Jun 11 00:26	20° \mathbb{H} 59'01	1.41779 AU
max. Earth dist.	10630 Jun 28 23:20	8° \mathbb{L} 35'39	1.39562 AU		10631 Jun 16 08:31	0° \mathbb{L}	
superior conj	10630 Jul 06 16:07	22° \mathbb{L} 22'10	-1°15'16	superior conj	10631 Jun 18 15:38	3° \mathbb{L} 58'58	-1°45'18
minimum elong	10630 Jul 06 21:12	22° \mathbb{L} 45'37	1°15'01	minimum elong	10631 Jun 18 22:05	4° \mathbb{L} 27'11	1°45'10
	10630 Jul 10 17:49	0° \mathbb{J}		evening rise	10631 Jun 29 12:12	23° \mathbb{L} 33'53	
asc. node	10630 Jul 15 05:31	8° \mathbb{J} 36'06		asc. node	10631 Jul 02 02:29	28° \mathbb{L} 19'19	
evening rise	10630 Jul 16 04:38	10° \mathbb{J} 27'21			10631 Jul 03 00:38	0° \mathbb{J}	
	10630 Jul 27 03:35	0° \mathbb{M}		evening max el	10631 Jul 15 15:49	19° \mathbb{J} 11'15	18°10'51
evening max el	10630 Aug 01 06:43	6° \mathbb{M} 27'47	18°36'45	retrograde	10631 Jul 22 15:56	22° \mathbb{J} 44'20	
retrograde	10630 Aug 09 06:34	10° \mathbb{M} 27'42		evening set	10631 Jul 24 23:34	22° \mathbb{J} 21'32	
evening set	10630 Aug 11 06:54	10° \mathbb{M} 13'19					
desc. node	10630 Aug 18 01:23	6° \mathbb{M} 37'16					

inferior conj	10631 Aug 01 01:58	17° Ω 34'13	1°08'02	inferior conj	10632 Jul 13 18:21	0° Ω 00'44	2°11'10
minimum elong	10631 Aug 01 04:02	17° Ω 29'38	1°06'54	minimum elong	10632 Jul 13 21:07	29° Ξ 53'39	2°09'54
min. Earth dist.	10631 Aug 04 09:51	14° Ω 38'15	0.59568 AU		10632 Jul 13 18:38	30° \Re Ξ	
desc. node	10631 Aug 04 22:39	14° Ω 11'42		min. Earth dist.	10632 Jul 16 18:26	26° Ξ 58'14	0.61837 AU
morning rise	10631 Aug 08 05:20	11° Ω 51'34		morning rise	10632 Jul 20 08:02	23° Ξ 56'14	
direct	10631 Aug 14 15:09	9° Ω 56'40		desc. node	10632 Jul 21 19:52	23° Ξ 00'07	
morning max el	10631 Aug 28 23:36	17° Ω 47'14	27°39'56	direct	10632 Jul 27 00:23	21° Ξ 35'16	
	10631 Sep 08 04:10	0° \mathfrak{M}		morning max el	10632 Aug 10 04:57	29° Ξ 36'59	27°57'12
	10631 Sep 25 23:01	0° $\underline{\Omega}$			10632 Aug 10 14:07	0° Ω	
asc. node	10631 Sep 28 02:54	4° $\underline{\Omega}$ 21'32			10632 Sep 01 04:17	0° \mathfrak{M}	
morning set	10631 Sep 29 19:12	7° $\underline{\Omega}$ 50'30		morning set	10632 Sep 12 20:25	21° \mathfrak{M} 56'52	
max. Earth dist.	10631 Oct 06 03:38	21° $\underline{\Omega}$ 37'40	1.31466 AU	asc. node	10632 Sep 13 23:42	24° \mathfrak{M} 17'39	
					10632 Sep 16 16:31	0° $\underline{\Omega}$	
superior conj	10631 Oct 06 21:29	23° $\underline{\Omega}$ 16'50	1°17'27	max. Earth dist.	10632 Sep 18 10:15	3° $\underline{\Omega}$ 45'22	1.31863 AU
minimum elong	10631 Oct 06 19:19	23° $\underline{\Omega}$ 04'44	1°17'20				
	10631 Oct 09 22:03	0° \mathfrak{M}		superior conj	10632 Sep 20 07:20	7° $\underline{\Omega}$ 51'55	0°59'12
evening rise	10631 Oct 13 14:52	8° \mathfrak{M} 04'56		minimum elong	10632 Sep 20 05:09	7° $\underline{\Omega}$ 39'55	0°58'51
	10631 Oct 24 20:37	0° \mathfrak{J}		evening rise	10632 Sep 27 01:48	22° $\underline{\Omega}$ 42'27	
desc. node	10631 Oct 31 20:15	11° \mathfrak{J} 01'48			10632 Sep 30 13:03	0° \mathfrak{M}	
evening max el	10631 Nov 10 22:40	23° \mathfrak{J} 07'04	26°02'34	desc. node	10632 Oct 17 17:29	28° \mathfrak{M} 27'54	
	10631 Nov 22 19:30	0° Ξ			10632 Oct 19 00:25	0° \mathfrak{J}	
retrograde	10631 Nov 24 20:26	0° Ξ 09'59		evening max el	10632 Oct 22 12:21	3° \mathfrak{J} 41'58	24°34'57
	10631 Nov 26 21:09	30° \Re \mathfrak{J}		retrograde	10632 Nov 05 06:47	10° \mathfrak{J} 36'19	
evening set	10631 Dec 01 05:12	28° \mathfrak{J} 33'51		evening set	10632 Nov 10 14:17	9° \mathfrak{J} 33'34	
min. Earth dist.	10631 Dec 05 11:27	25° \mathfrak{J} 58'44	0.58317 AU	min. Earth dist.	10632 Nov 15 23:38	6° \mathfrak{J} 45'44	0.56444 AU
inferior conj	10631 Dec 08 13:52	23° \mathfrak{J} 44'09	-4°45'33	inferior conj	10632 Nov 18 12:21	5° \mathfrak{J} 09'41	-5°35'11
minimum elong	10631 Dec 08 21:49	23° \mathfrak{J} 29'43	4°43'06	minimum elong	10632 Nov 18 17:04	5° \mathfrak{J} 02'11	5°34'12
morning rise	10631 Dec 16 16:56	19° \mathfrak{J} 18'54		morning rise	10632 Nov 26 22:02	1° \mathfrak{J} 06'19	
direct	10631 Dec 18 21:35	19° \mathfrak{J} 03'10		direct	10632 Nov 29 10:03	0° \mathfrak{J} 49'22	
asc. node	10631 Dec 25 02:59	21° \mathfrak{J} 18'48		morning max el	10632 Dec 09 02:53	5° \mathfrak{J} 26'48	19°32'40
morning max el	10631 Dec 27 05:54	23° \mathfrak{J} 07'08	18°36'05	asc. node	10632 Dec 10 24:00	7° \mathfrak{J} 24'42	
	10632 Jan 01 18:01	0° Ξ			10632 Dec 24 17:57	0° Ξ	
morning set	10632 Jan 12 07:50	18° Ξ 53'26		morning set	10632 Dec 26 10:39	3° Ξ 23'20	
	10632 Jan 18 01:54	0° \approx					
superior conj	10632 Jan 21 03:44	5° \approx 48'36	0°49'59	superior conj	10633 Jan 03 10:03	19° Ξ 22'21	1°13'37
minimum elong	10632 Jan 21 06:41	6° \approx 02'23	0°50'01	minimum elong	10633 Jan 03 12:59	19° Ξ 36'45	1°13'48
desc. node	10632 Jan 27 19:26	17° \approx 51'24			10633 Jan 08 23:29	0° \approx	
max. Earth dist.	10632 Jan 28 12:21	19° \approx 05'18	1.40038 AU	max. Earth dist.	10633 Jan 09 18:11	1° \approx 26'27	1.37824 AU
evening rise	10632 Feb 01 15:26	26° \approx 08'11		evening rise	10633 Jan 13 11:32	8° \approx 08'56	
	10632 Feb 03 23:28	0° \mathfrak{H}		desc. node	10633 Jan 13 16:17	8° \approx 29'52	
	10632 Feb 24 01:05	0° Υ			10633 Jan 26 19:46	0° \mathfrak{H}	
evening max el	10632 Mar 07 10:15	14° Υ 53'29	23°53'41	evening max el	10633 Feb 17 23:31	28° \mathfrak{H} 43'05	25°10'48
retrograde	10632 Mar 18 10:20	21° Υ 22'11			10633 Feb 19 07:50	0° Υ	
asc. node	10632 Mar 22 01:12	20° Υ 20'41		retrograde	10633 Mar 02 00:07	5° Υ 41'33	
evening set	10632 Mar 23 16:35	19° Υ 09'54		evening set	10633 Mar 07 18:24	3° Υ 17'57	
min. Earth dist.	10632 Mar 28 10:16	13° Υ 40'01	0.68438 AU	asc. node	10633 Mar 08 22:26	2° Υ 12'53	
inferior conj	10632 Mar 29 03:30	12° Υ 41'23	2°05'52		10633 Mar 10 21:51	30° \Re \mathfrak{H}	
minimum elong	10632 Mar 29 01:19	12° Υ 48'48	2°05'08	min. Earth dist.	10633 Mar 12 04:40	28° \mathfrak{H} 22'56	0.67798 AU
morning rise	10632 Apr 03 10:06	6° Υ 38'30		inferior conj	10633 Mar 13 09:43	26° \mathfrak{H} 48'09	1°23'44
direct	10632 Apr 07 11:49	5° Υ 04'46		minimum elong	10633 Mar 13 07:55	26° \mathfrak{H} 54'02	1°23'10
morning max el	10632 Apr 15 10:27	9° Υ 34'57	20°27'39	morning rise	10633 Mar 18 21:47	20° \mathfrak{H} 53'14	
desc. node	10632 Apr 24 20:21	21° Υ 07'44		direct	10633 Mar 22 11:13	19° \mathfrak{H} 40'25	
	10632 May 01 01:33	0° \mathfrak{B}		morning max el	10633 Mar 29 13:47	23° \mathfrak{H} 35'33	19°23'08
morning set	10632 May 14 05:19	19° \mathfrak{B} 51'41			10633 Apr 04 00:49	0° Υ	
	10632 May 20 16:33	0° \mathbb{I}		greatest brilliancy	10633 Apr 11 07:52	10° Υ 19'46	-0.7m
max. Earth dist.	10632 May 23 08:09	4° \mathbb{I} 14'08	1.43654 AU	desc. node	10633 Apr 11 17:07	10° Υ 54'05	
				morning set	10633 Apr 23 05:02	28° Υ 23'22	
superior conj	10632 May 29 15:52	14° \mathbb{I} 33'30	-2°06'41		10633 Apr 24 06:06	0° \mathfrak{B}	
minimum elong	10632 May 29 20:40	14° \mathbb{I} 53'25	2°06'58	max. Earth dist.	10633 May 05 21:53	18° \mathfrak{B} 10'03	1.44980 AU
	10632 Jun 07 18:04	0° Ξ					
evening rise	10632 Jun 11 03:24	5° Ξ 54'16		superior conj	10633 May 09 16:18	24° \mathfrak{B} 08'16	-2°12'47
asc. node	10632 Jun 17 23:30	17° Ξ 45'16		minimum elong	10633 May 09 14:58	24° \mathfrak{B} 03'01	2°13'11
	10632 Jun 26 02:20	0° Ω			10633 May 13 08:06	0° \mathbb{I}	
evening max el	10632 Jun 28 04:53	2° Ω 20'16	18°04'28	evening rise	10633 May 23 21:25	17° \mathbb{I} 18'22	
retrograde	10632 Jul 04 16:28	5° Ω 41'33			10633 May 31 13:19	0° Ξ	
evening set	10632 Jul 07 07:56	5° Ω 07'18		asc. node	10633 Jun 04 20:33	6° Ξ 47'57	
				evening max el	10633 Jun 11 18:33	15° Ξ 46'44	18°16'45

retrograde	10633 Jun 18 03:36	19°☿10'16	evening set	10634 Jun 05 04:58	1°☿59'07	
evening set	10633 Jun 21 02:59	18°☿22'22		10634 Jun 07 14:33	30°♁II	
inferior conj	10633 Jun 27 01:21	12°☿58'20 2°51'04	inferior conj	10634 Jun 10 19:03	26°♁19'06	3°12'02
minimum elong	10633 Jun 27 03:33	12°☿52'03 2°50'08	minimum elong	10634 Jun 10 20:09	26°♁15'41	3°11'24
min. Earth dist.	10633 Jun 29 12:25	10°☿10'38 0.63967 AU	min. Earth dist.	10634 Jun 12 15:09	24°♁02'14	0.65777 AU
morning rise	10633 Jul 03 02:44	6°☿42'11	morning rise	10634 Jun 16 10:36	19°♁58'36	
desc. node	10633 Jul 08 17:01	4°☿07'53	direct	10634 Jun 22 20:56	17°♁14'28	
direct	10633 Jul 09 18:56	4°☿03'57	desc. node	10634 Jun 25 14:05	17°♁39'48	
morning max el	10633 Jul 23 14:15	12°☿05'56 27°37'09	morning max el	10634 Jul 06 00:51	25°♁03'05	26°45'51
	10633 Aug 06 20:13	0°♁		10634 Jul 10 12:38	0°☿	
	10633 Aug 24 16:15	0°♁		10634 Jul 31 07:42	0°♁	
morning set	10633 Aug 27 13:52	5°♁38'29	morning set	10634 Aug 10 20:30	18°♁47'14	
asc. node	10633 Aug 31 20:29	14°♁20'42	max. Earth dist.	10634 Aug 15 00:22	26°♁54'10	1.34169 AU
max. Earth dist.	10633 Sep 01 10:10	15°♁32'11 1.32764 AU		10634 Aug 16 13:17	0°♁	
			asc. node	10634 Aug 18 17:18	4°♁26'34	
superior conj	10633 Sep 04 13:28	22°♁12'27 0°36'01	superior conj	10634 Aug 19 13:38	6°♁12'10	0°08'20
minimum elong	10633 Sep 04 11:50	22°♁03'41 0°35'34	minimum elong	10634 Aug 19 13:12	6°♁09'54	0°07'59
	10633 Sep 08 03:52	0°♁	behind sun begin	10634 Aug 19 08:10	5°♁43'41	
evening rise	10633 Sep 11 13:12	7°♁18'35	behind sun end	10634 Aug 19 18:14	6°♁36'09	
	10633 Sep 23 09:10	0°♁	evening rise	10634 Aug 26 23:10	21°♁47'52	
evening max el	10633 Oct 03 23:02	13°♁50'21 22°54'46		10634 Aug 30 23:11	0°♁	
desc. node	10633 Oct 04 14:45	14°♁27'42	evening max el	10634 Sep 15 15:47	24°♁08'24	21°19'03
retrograde	10633 Oct 17 04:33	20°♁25'36	desc. node	10634 Sep 21 12:02	28°♁32'20	
evening set	10633 Oct 21 01:06	19°♁53'10		10634 Sep 25 23:44	0°♁	
min. Earth dist.	10633 Oct 28 07:48	16°♁34'23 0.55117 AU	retrograde	10634 Sep 27 16:52	0°♁07'05	
inferior conj	10633 Oct 29 15:53	15°♁48'20 -5°42'47		10634 Sep 29 10:41	30°♁♁	
minimum elong	10633 Oct 29 12:51	15°♁52'41 5°42'15	evening set	10634 Sep 30 06:10	29°♁52'01	
morning rise	10633 Nov 07 02:19	11°♁59'10	inferior conj	10634 Oct 09 08:37	25°♁56'26	-4°53'25
direct	10633 Nov 10 04:19	11°♁36'59	minimum elong	10634 Oct 08 23:15	26°♁09'34	4°51'07
morning max el	10633 Nov 21 10:26	16°♁56'01 20°51'51	min. Earth dist.	10634 Oct 09 15:14	25°♁47'10	0.54609 AU
asc. node	10633 Nov 27 20:57	24°♁38'05	morning rise	10634 Oct 17 17:03	22°♁05'42	
	10633 Dec 01 07:29	0°♁	direct	10634 Oct 21 13:04	21°♁33'59	
morning set	10633 Dec 10 18:35	18°♁05'10	morning max el	10634 Nov 03 05:12	27°♁36'55	22°30'17
	10633 Dec 16 11:45	0°♁		10634 Nov 05 13:31	0°♁	
superior conj	10633 Dec 18 04:02	3°♁27'50 1°29'22	asc. node	10634 Nov 14 17:52	12°♁43'58	
minimum elong	10633 Dec 18 06:08	3°♁38'35 1°29'44		10634 Nov 23 20:25	0°♁	
max. Earth dist.	10633 Dec 23 02:44	13°♁22'55 1.35755 AU	morning set	10634 Nov 25 05:25	2°♁52'57	
evening rise	10633 Dec 27 02:03	20°♁57'08	superior conj	10634 Dec 02 06:11	17°♁55'16	1°37'49
desc. node	10633 Dec 31 13:11	29°♁00'50	minimum elong	10634 Dec 02 07:07	18°♁00'13	1°38'18
	10634 Jan 01 02:44	0°♁	max. Earth dist.	10634 Dec 05 18:29	25°♁17'06	1.34014 AU
	10634 Jan 20 17:53	0°♁		10634 Dec 08 02:05	0°♁	
evening max el	10634 Jan 31 12:59	12°♁31'02 26°17'24	evening rise	10634 Dec 10 07:20	4°♁23'27	
retrograde	10634 Feb 13 08:47	19°♁47'03	desc. node	10634 Dec 18 10:11	19°♁19'44	
evening set	10634 Feb 19 14:42	17°♁15'51		10634 Dec 24 21:31	0°♁	
asc. node	10634 Feb 23 19:40	12°♁52'28	evening max el	10635 Jan 14 02:33	26°♁09'01	27°06'00
min. Earth dist.	10634 Feb 23 18:43	12°♁55'21 0.66763 AU		10635 Jan 18 15:24	0°♁	
inferior conj	10634 Feb 25 11:34	10°♁50'20 0°32'19	retrograde	10635 Jan 27 11:27	3°♁31'22	
minimum elong	10634 Feb 25 10:44	10°♁52'53 0°32'14	evening set	10635 Feb 03 03:31	0°♁57'41	
morning rise	10634 Mar 03 07:34	5°♁05'11		10635 Feb 04 07:07	30°♁♁	
direct	10634 Mar 06 10:03	4°♁10'42	min. Earth dist.	10635 Feb 07 02:12	27°♁10'47	0.65360 AU
morning max el	10634 Mar 13 00:09	7°♁43'15 18°34'27	inferior conj	10635 Feb 09 06:48	24°♁42'46	-0°28'09
	10634 Mar 28 22:11	0°♁	minimum elong	10635 Feb 09 07:36	24°♁40'28	0°27'27
desc. node	10634 Mar 29 13:51	1°♁01'22	asc. node	10635 Feb 10 16:52	23°♁08'28	
morning set	10634 Apr 02 22:01	7°♁50'58	morning rise	10635 Feb 15 13:06	19°♁09'53	
	10634 Apr 17 00:56	0°♁	direct	10635 Feb 18 06:14	18°♁30'21	
max. Earth dist.	10634 Apr 18 16:01	2°♁32'46 1.45622 AU	morning max el	10635 Feb 24 15:31	21°♁51'58	18°02'34
				10635 Mar 03 01:47	0°♁	
superior conj	10634 Apr 19 00:30	3°♁05'59 -1°58'52	morning set	10635 Mar 14 19:47	18°♁45'13	
minimum elong	10634 Apr 18 16:23	2°♁34'14 1°58'34	desc. node	10635 Mar 16 10:35	21°♁23'51	
evening rise	10634 May 04 15:21	27°♁42'14		10635 Mar 21 17:44	0°♁	
	10634 May 06 02:00	0°♁	superior conj	10635 Mar 29 09:26	12°♁12'38	-1°26'47
greatest brilliancy	10634 May 13 00:46	11°♁01'28 -0.8m	minimum elong	10635 Mar 29 00:25	11°♁36'59	1°25'51
asc. node	10634 May 22 17:38	25°♁18'59	max. Earth dist.	10635 Apr 01 12:07	17°♁06'25	1.45517 AU
evening max el	10634 May 26 06:01	29°♁23'10 18°46'54		10635 Apr 09 18:45	0°♁	
	10634 May 26 21:16	0°☿				
retrograde	10634 Jun 01 21:27	3°☿02'06				

evening rise	10635 Apr 14 12:26	7°♄19'31		evening max el	10636 Apr 21 14:44	26°♄47'23	20°35'07
greatest brilliancy	10635 Apr 27 19:23	27°♄35'47	-0.7m	asc. node	10636 Apr 25 11:58	0°♄03'52	
	10635 Apr 29 10:33	0°♄			10636 Apr 25 09:35	0°♄	
evening max el	10635 May 09 13:08	13°♄04'19	19°33'41	retrograde	10636 Apr 29 17:46	1°♄31'07	
asc. node	10635 May 09 14:46	13°♄08'26		evening set	10636 May 03 19:21	29°♄56'36	
retrograde	10635 May 16 18:58	17°♄10'46			10636 May 03 17:36	30°♄	
evening set	10635 May 20 11:08	15°♄52'02		inferior conj	10636 May 09 02:13	23°♄48'59	3°10'58
inferior conj	10635 May 25 20:13	9°♄57'20	3°17'45	minimum elong	10636 May 09 01:08	23°♄52'41	3°10'26
minimum elong	10635 May 25 20:08	9°♄57'34	3°17'16	min. Earth dist.	10636 May 09 17:19	22°♄57'02	0.68107 AU
min. Earth dist.	10635 May 27 01:21	8°♄20'54	0.67172 AU	morning rise	10636 May 14 06:42	17°♄31'24	
morning rise	10635 May 31 04:47	3°♄36'59		direct	10636 May 19 18:40	15°♄05'09	
direct	10635 Jun 06 05:09	0°♄57'39		desc. node	10636 May 29 08:05	20°♄13'58	
desc. node	10635 Jun 12 11:07	3°♄11'27		morning max el	10636 May 30 20:45	21°♄43'05	24°05'04
morning max el	10635 Jun 18 11:03	8°♄17'46	25°31'50		10636 Jun 07 01:15	0°♄	
	10635 Jul 05 10:49	0°♄			10636 Jun 27 17:15	0°♄	
	10635 Jul 23 20:22	0°♄		morning set	10636 Jul 05 08:51	12°♄42'55	
morning set	10635 Jul 24 12:24	1°♄12'25		max. Earth dist.	10636 Jul 09 02:17	19°♄14'42	1.38237 AU
max. Earth dist.	10635 Jul 28 04:29	7°♄59'56	1.36040 AU		10636 Jul 14 23:05	0°♄	
superior conj	10635 Aug 03 05:02	19°♄43'00	-0°22'59	superior conj	10636 Jul 16 08:19	2°♄37'21	-0°56'15
minimum elong	10635 Aug 03 06:28	19°♄50'08	0°23'06	minimum elong	10636 Jul 16 12:04	2°♄55'15	0°56'05
asc. node	10635 Aug 05 14:07	24°♄30'50		asc. node	10636 Jul 22 11:01	14°♄30'19	
	10635 Aug 08 06:33	0°♄		evening rise	10636 Jul 25 05:46	19°♄59'36	
evening rise	10635 Aug 11 05:32	6°♄03'40			10636 Jul 30 10:21	0°♄	
	10635 Aug 24 14:49	0°♄		evening max el	10636 Aug 10 15:45	16°♄44'30	19°00'48
evening max el	10635 Aug 28 21:04	5°♄03'02	19°59'31	retrograde	10636 Aug 19 10:41	21°♄07'18	
retrograde	10635 Sep 08 06:53	10°♄13'17		evening set	10636 Aug 21 07:44	20°♄56'06	
desc. node	10635 Sep 08 09:21	10°♄13'15		desc. node	10636 Aug 25 06:38	19°♄27'37	
evening set	10635 Sep 10 04:50	10°♄03'34		inferior conj	10636 Aug 29 16:11	16°♄40'54	-1°22'13
inferior conj	10635 Sep 19 04:24	6°♄03'34	-3°16'14	minimum elong	10636 Aug 29 12:38	16°♄47'03	1°21'00
minimum elong	10635 Sep 18 19:50	6°♄16'29	3°13'15	min. Earth dist.	10636 Sep 01 14:09	14°♄39'59	0.56351 AU
min. Earth dist.	10635 Sep 21 00:31	4°♄57'03	0.55041 AU	morning rise	10636 Sep 06 14:23	11°♄51'34	
morning rise	10635 Sep 27 09:32	1°♄50'35		direct	10636 Sep 12 00:38	10°♄42'15	
direct	10635 Oct 02 00:34	1°♄04'01		morning max el	10636 Sep 26 05:41	17°♄59'33	25°57'30
morning max el	10635 Oct 15 16:56	7°♄47'33	24°17'47		10636 Oct 06 05:31	0°♄	
	10635 Oct 31 19:07	0°♄		asc. node	10636 Oct 18 11:37	20°♄42'56	
asc. node	10635 Nov 01 14:45	1°♄28'54			10636 Oct 23 01:27	0°♄	
morning set	10635 Nov 09 17:14	17°♄40'29		morning set	10636 Oct 24 04:23	2°♄22'52	
	10635 Nov 15 09:13	0°♄		superior conj	10636 Oct 31 00:20	17°♄22'22	1°35'28
superior conj	10635 Nov 16 13:42	2°♄35'44	1°39'40	minimum elong	10636 Oct 30 23:05	17°♄15'26	1°35'46
minimum elong	10635 Nov 16 13:27	2°♄34'22	1°40'08	max. Earth dist.	10636 Nov 01 00:09	19°♄34'07	1.31827 AU
max. Earth dist.	10635 Nov 18 18:13	7°♄20'21	1.32689 AU		10636 Nov 05 19:23	0°♄	
evening rise	10635 Nov 23 23:47	18°♄17'53		evening rise	10636 Nov 07 00:24	2°♄32'45	
	10635 Nov 30 00:36	0°♄		desc. node	10636 Nov 21 04:21	28°♄53'44	
desc. node	10635 Dec 05 07:14	9°♄19'59			10636 Nov 21 20:49	0°♄	
	10635 Dec 19 05:17	0°♄		evening max el	10636 Dec 08 23:11	22°♄05'07	27°22'32
evening max el	10635 Dec 27 14:42	9°♄24'38	27°29'39	retrograde	10636 Dec 22 20:07	29°♄20'45	
retrograde	10636 Jan 10 07:27	16°♄45'45		evening set	10636 Dec 29 20:22	27°♄04'35	
evening set	10636 Jan 17 06:25	14°♄16'23		min. Earth dist.	10637 Jan 02 13:33	24°♄13'50	0.61626 AU
min. Earth dist.	10636 Jan 21 00:57	11°♄00'36	0.63623 AU	inferior conj	10637 Jan 05 14:18	21°♄30'09	-2°51'33
inferior conj	10636 Jan 23 16:45	8°♄18'41	-1°36'54	minimum elong	10637 Jan 05 20:04	21°♄17'08	2°48'53
minimum elong	10636 Jan 23 19:52	8°♄10'46	1°35'10	morning rise	10637 Jan 12 22:22	16°♄30'54	
asc. node	10636 Jan 28 14:04	4°♄00'17		asc. node	10637 Jan 14 11:14	16°♄12'13	
morning rise	10636 Jan 30 11:21	3°♄01'04		direct	10637 Jan 15 02:54	16°♄10'22	
direct	10636 Feb 01 21:00	2°♄32'51		morning max el	10637 Jan 22 01:42	19°♄41'05	17°51'11
morning max el	10636 Feb 08 09:06	5°♄54'09	17°47'56		10637 Jan 29 16:15	0°♄	
	10636 Feb 24 07:07	0°♄		morning set	10637 Feb 06 18:19	14°♄09'33	
morning set	10636 Feb 24 20:39	0°♄58'03			10637 Feb 15 16:03	0°♄	
desc. node	10636 Mar 02 07:21	11°♄56'44		desc. node	10637 Feb 17 04:05	2°♄35'44	
superior conj	10636 Mar 08 11:59	22°♄12'52	-0°45'15	superior conj	10637 Feb 17 15:17	3°♄23'48	-0°03'34
minimum elong	10636 Mar 08 07:10	21°♄53'09	0°44'27	minimum elong	10637 Feb 17 14:59	3°♄22'30	0°03'13
	10636 Mar 13 07:45	0°♄		behind sun begin	10637 Feb 17 06:37	2°♄46'35	
max. Earth dist.	10636 Mar 14 07:08	1°♄33'07	1.44677 AU	behind sun end	10637 Feb 17 23:21	3°♄58'19	
evening rise	10636 Mar 23 23:58	16°♄41'32		max. Earth dist.	10637 Feb 24 22:13	15°♄34'50	1.43208 AU
	10636 Apr 01 18:53	0°♄		evening rise	10637 Mar 03 17:14	26°♄25'27	

	10637 Mar 06 00:26	0°♿		desc. node	10638 Feb 04 00:53	23°♿17'45	
	10637 Mar 26 15:56	0°♿		max. Earth dist.	10638 Feb 07 08:34	29°♿00'16	1.41277 AU
evening max el	10637 Apr 04 10:48	10°♿30'58	21°48'00		10638 Feb 07 22:43	0°♿	
asc. node	10637 Apr 12 09:13	15°♿49'13		evening rise	10638 Feb 12 04:00	6°♿59'16	
retrograde	10637 Apr 13 15:53	15°♿57'12			10638 Feb 27 03:47	0°♿	
evening set	10637 Apr 18 03:48	14°♿07'20		evening max el	10638 Mar 18 02:52	24°♿17'25	23°07'23
inferior conj	10637 Apr 23 10:47	7°♿49'07	2°53'22		10638 Mar 26 02:06	0°♿	
minimum elong	10637 Apr 23 08:59	7°♿55'24	2°52'43	retrograde	10638 Mar 28 11:37	0°♿24'53	
min. Earth dist.	10637 Apr 23 12:51	7°♿41'55	0.68584 AU	asc. node	10638 Mar 30 06:28	0°♿09'33	
morning rise	10637 Apr 28 13:58	1°♿36'03			10638 Mar 30 17:57	30°♿	
	10637 May 01 00:38	30°♿		evening set	10638 Apr 02 10:54	28°♿20'35	
direct	10637 May 03 12:35	29°♿28'19		inferior conj	10638 Apr 07 19:56	21°♿54'49	2°25'57
	10637 May 06 04:22	0°♿		minimum elong	10638 Apr 07 17:46	22°♿02'18	2°25'12
morning max el	10637 May 13 07:39	5°♿15'18	22°35'16	min. Earth dist.	10638 Apr 07 09:41	22°♿30'12	0.68621 AU
desc. node	10637 May 16 04:59	8°♿22'05		morning rise	10638 Apr 13 00:31	15°♿47'40	
	10637 Jun 01 07:54	0°♿		direct	10638 Apr 17 09:45	14°♿01'11	
morning set	10637 Jun 16 04:43	23°♿05'22		morning max el	10638 Apr 25 23:05	18°♿57'04	21°10'58
	10637 Jun 20 08:30	0°♿		desc. node	10638 May 03 01:49	27°♿18'05	
max. Earth dist.	10637 Jun 20 23:53	1°♿05'06	1.40527 AU		10638 May 05 02:35	0°♿	
					10638 May 25 11:18	0°♿	
superior conj	10637 Jun 28 19:12	14°♿44'50	-1°28'41	morning set	10638 May 26 22:15	2°♿16'48	
minimum elong	10637 Jun 29 01:05	15°♿11'23	1°28'26	max. Earth dist.	10638 Jun 03 03:04	13°♿48'45	1.42636 AU
	10637 Jul 07 00:47	0°♿					
evening rise	10637 Jul 08 20:31	3°♿26'29		superior conj	10638 Jun 10 09:11	25°♿55'51	-1°55'49
asc. node	10637 Jul 09 07:57	4°♿20'28		minimum elong	10638 Jun 10 15:26	26°♿22'35	1°55'51
evening max el	10637 Jul 24 20:45	29°♿07'55	18°23'17		10638 Jun 12 17:56	0°♿	
	10637 Jul 25 19:06	0°♿		evening rise	10638 Jun 21 21:38	16°♿14'13	
retrograde	10637 Aug 01 09:15	2°♿54'36		asc. node	10638 Jun 26 04:55	23°♿56'50	
evening set	10637 Aug 03 12:23	2°♿37'12			10638 Jun 29 16:46	0°♿	
	10637 Aug 08 12:52	30°♿		evening max el	10638 Jul 08 08:02	12°♿03'37	18°05'52
inferior conj	10637 Aug 11 01:31	28°♿02'06	0°20'01	retrograde	10638 Jul 15 01:22	15°♿29'30	
minimum elong	10637 Aug 11 02:13	28°♿00'40	0°19'24	evening set	10638 Jul 17 12:25	15°♿02'06	
desc. node	10637 Aug 12 03:54	27°♿08'09		inferior conj	10638 Jul 24 07:34	10°♿06'36	1°37'53
min. Earth dist.	10637 Aug 14 09:52	25°♿19'57	0.58294 AU	minimum elong	10638 Jul 24 10:09	10°♿00'30	1°36'37
morning rise	10637 Aug 18 12:31	22°♿36'32		min. Earth dist.	10638 Jul 27 13:13	7°♿04'54	0.60541 AU
direct	10637 Aug 24 15:30	20°♿58'11		desc. node	10638 Jul 30 01:07	5°♿01'42	
morning max el	10637 Sep 08 00:17	28°♿39'49	27°12'32	morning rise	10638 Jul 31 05:05	4°♿13'33	
	10637 Sep 09 08:08	0°♿		direct	10638 Aug 06 18:47	2°♿06'27	
	10637 Sep 30 00:10	0°♿		morning max el	10638 Aug 21 01:50	10°♿02'46	27°52'00
asc. node	10637 Oct 05 08:28	10°♿18'15			10638 Sep 05 13:11	0°♿	
morning set	10637 Oct 08 13:09	16°♿55'23		asc. node	10638 Sep 22 05:14	0°♿08'19	
	10637 Oct 14 12:54	0°♿			10638 Sep 22 03:38	0°♿	
				morning set	10638 Sep 22 17:40	1°♿12'41	
superior conj	10637 Oct 15 12:08	2°♿09'17	1°25'36	max. Earth dist.	10638 Sep 28 17:46	14°♿07'41	1.31568 AU
minimum elong	10637 Oct 15 10:10	1°♿58'25	1°25'38				
max. Earth dist.	10637 Oct 15 09:11	1°♿52'55	1.31449 AU	superior conj	10638 Sep 29 23:11	16°♿50'18	1°10'21
evening rise	10637 Oct 22 06:42	17°♿01'28		minimum elong	10638 Sep 29 20:56	16°♿37'53	1°10'07
	10637 Oct 28 16:09	0°♿			10638 Oct 05 22:24	0°♿	
desc. node	10637 Nov 08 01:31	17°♿50'31		evening rise	10638 Oct 06 16:29	1°♿37'35	
	10637 Nov 17 05:18	0°♿			10638 Oct 21 20:41	0°♿	
evening max el	10637 Nov 21 01:34	3°♿59'49	26°41'24	desc. node	10638 Oct 25 22:44	5°♿55'14	
retrograde	10637 Dec 05 00:07	11°♿07'52		evening max el	10638 Nov 02 19:57	15°♿02'37	25°28'07
evening set	10637 Dec 11 17:22	9°♿14'52		retrograde	10638 Nov 16 17:09	22°♿02'00	
min. Earth dist.	10637 Dec 15 15:40	6°♿38'13	0.59502 AU	evening set	10638 Nov 22 16:31	20°♿40'09	
inferior conj	10637 Dec 18 19:58	4°♿08'12	-4°06'28	min. Earth dist.	10638 Nov 27 08:12	18°♿01'49	0.57468 AU
minimum elong	10637 Dec 19 03:46	3°♿52'49	4°03'34	inferior conj	10638 Nov 30 06:21	16°♿02'09	-5°10'24
	10637 Dec 25 04:57	30°♿		minimum elong	10638 Nov 30 13:33	15°♿49'49	5°08'30
morning rise	10637 Dec 26 16:54	29°♿29'56		morning rise	10638 Dec 08 12:54	11°♿46'14	
direct	10637 Dec 28 19:54	29°♿13'31		direct	10638 Dec 10 19:50	11°♿30'23	
asc. node	10638 Jan 01 08:22	0°♿00'56		asc. node	10638 Dec 19 05:24	15°♿20'23	
	10638 Jan 01 07:32	0°♿		morning max el	10638 Dec 19 17:08	15°♿47'55	18°57'20
morning max el	10638 Jan 05 13:42	3°♿03'05	18°13'42		10638 Dec 29 17:15	0°♿	
morning set	10638 Jan 21 06:50	28°♿02'27		morning set	10639 Jan 05 05:28	12°♿21'47	
	10638 Jan 22 07:43	0°♿					
				superior conj	10639 Jan 13 15:44	28°♿50'20	1°01'00
superior conj	10638 Jan 30 18:05	15°♿41'01	0°32'37	minimum elong	10639 Jan 13 18:49	29°♿05'03	1°01'04
minimum elong	10638 Jan 30 20:25	15°♿51'34	0°32'40		10639 Jan 14 06:22	0°♿	

max. Earth dist.	10639 Jan 20 15:29	11°  44'37	1.39099 AU	minimum elong	10639 Dec 28 06:06	12°  51'51	1°21'29
desc. node	10639 Jan 21 21:43	13°  58'25		max. Earth dist.	10640 Jan 02 22:13	23°  54'06	1.36918 AU
evening rise	10639 Jan 24 12:09	18°  29'04			10640 Jan 06 05:16	0° 	
	10639 Jan 31 11:33	0° 		evening rise	10640 Jan 06 16:27	0°  50'37	
	10639 Feb 21 11:46	0° 		desc. node	10640 Jan 08 18:37	4°  34'04	
evening max el	10639 Feb 28 16:49	8°  06'51	24°27'17		10640 Jan 24 16:02	0° 	
retrograde	10639 Mar 12 03:44	14°  04'50		evening max el	10640 Feb 11 06:07	21°  56'28	25°40'48
asc. node	10639 Mar 17 03:43	12°  04'48		retrograde	10640 Feb 23 15:15	29°  03'13	
evening set	10639 Mar 17 15:05	12°  31'38		evening set	10640 Feb 29 14:45	26°  35'45	
min. Earth dist.	10639 Mar 22 05:33	7°  16'32	0.68225 AU	asc. node	10640 Mar 03 00:57	24°  31'42	
inferior conj	10639 Mar 23 03:45	6°  02'10	1°49'08	min. Earth dist.	10640 Mar 04 22:14	21°  55'44	0.67412 AU
minimum elong	10639 Mar 23 01:40	6°  09'10	1°48'27	inferior conj	10640 Mar 06 08:20	20°  30'19	1°03'04
morning rise	10639 Mar 28 12:21	0°  02'24		minimum elong	10640 Mar 06 06:52	20°  31'00	1°02'39
	10639 Mar 28 13:40	30°  38'38		morning rise	10640 Mar 11 23:29	14°  31'30	
direct	10639 Apr 01 08:49	28°  37'34		direct	10640 Mar 15 08:09	13°  31'47	
	10639 Apr 05 10:46	0° 		morning max el	10640 Mar 22 04:20	16°  55'22	19°00'27
morning max el	10639 Apr 08 21:47	2°  50'58	19°58'16		10640 Apr 01 07:29	0° 	
desc. node	10639 Apr 19 22:36	16°  04'51		greatest brilliancy	10640 Apr 04 16:18	5°  02'10	-0.8m
	10639 Apr 28 21:04	0° 		desc. node	10640 Apr 05 19:21	6°  04'56	
morning set	10639 May 05 22:31	10°  45'47		morning set	10640 Apr 14 03:14	19°  35'16	
max. Earth dist.	10639 May 16 13:52	27°  24'32	1.44305 AU		10640 Apr 20 20:05	0° 	
	10639 May 18 04:48	0° 		max. Earth dist.	10640 Apr 28 06:22	11°  36'14	1.45346 AU
superior conj	10639 May 21 23:04	6°  04'26	-2°11'31	superior conj	10640 Apr 30 15:00	15°  38'55	-2°09'24
minimum elong	10639 May 22 01:45	6°  15'23	2°11'56	minimum elong	10640 Apr 30 10:25	15°  00'53	2°09'35
evening rise	10639 Jun 04 04:21	28°  11'56			10640 May 09 20:20	0° 	
	10639 Jun 05 05:36	0° 		evening rise	10640 May 15 12:18	9°  10'47	
asc. node	10639 Jun 13 01:56	13°  01'54			10640 May 28 12:53	0° 	
evening max el	10639 Jun 21 21:47	25°  21'37	18°07'29	asc. node	10640 May 29 23:00	2°  04'20	
retrograde	10639 Jun 28 06:57	28°  41'54		evening max el	10640 Jun 04 10:47	8°  53'01	18°27'23
evening set	10639 Jul 01 01:54	28°  01'53		retrograde	10640 Jun 10 21:30	12°  02'43	
inferior conj	10639 Jul 07 06:41	22°  47'31	2°30'39	evening set	10640 Jun 14 00:18	11°  02'27	
minimum elong	10639 Jul 07 09:19	22°  40'26	2°29'31	inferior conj	10640 Jun 19 18:41	5°  56'08	3°02'03
min. Earth dist.	10639 Jul 10 01:34	19°  49'17	0.62777 AU	minimum elong	10640 Jun 19 20:27	5°  50'53	3°01'15
morning rise	10639 Jul 13 14:55	16°  03'16		min. Earth dist.	10640 Jun 21 23:21	3°  20'14	0.64783 AU
desc. node	10639 Jul 16 22:17	14°  04'54			10640 Jun 25 04:53	30°  38'11	
direct	10639 Jul 20 08:04	14°  07'54		morning rise	10640 Jun 25 15:33	29°  37'19	
morning max el	10639 Aug 03 09:05	22°  08'13	27°53'01	direct	10640 Jul 02 05:41	26°  33'32	
	10639 Aug 10 06:00	0° 		desc. node	10640 Jul 02 19:25	26°  36'39	
	10639 Aug 29 17:43	0° 			10640 Jul 10 04:20	0° 	
morning set	10639 Sep 06 15:52	15°  09'24		morning max el	10640 Jul 15 19:26	4°  53'26	27°18'46
asc. node	10639 Sep 09 02:01	20°  08'09			10640 Aug 03 20:51	0° 	
max. Earth dist.	10639 Sep 11 22:07	26°  08'31	1.32187 AU	morning set	10640 Aug 20 05:06	28°  03'03	
	10639 Sep 13 16:58	0° 			10640 Aug 20 21:50	0° 	
superior conj	10639 Sep 14 07:41	1°  20'08	0°49'58	max. Earth dist.	10640 Aug 24 18:25	7°  45'53	1.33305 AU
minimum elong	10639 Sep 14 05:39	1°  09'06	0°49'33	asc. node	10640 Aug 25 22:49	10°  07'48	
evening rise	10639 Sep 21 03:51	16°  15'40		superior conj	10640 Aug 28 11:32	15°  32'15	0°24'47
	10639 Sep 27 21:26	0° 		minimum elong	10640 Aug 28 10:20	15°  25'52	0°24'20
desc. node	10639 Oct 12 19:58	22°  04'58			10640 Sep 04 05:33	0° 	
evening max el	10639 Oct 15 07:30	25°  04'39	23°52'52	evening rise	10640 Sep 04 14:53	0°  49'31	
	10639 Oct 21 07:47	0° 			10640 Sep 21 00:24	0° 	
retrograde	10639 Oct 28 21:35	2°  07'00		evening max el	10640 Sep 25 19:20	5°  29'23	22°12'31
evening set	10639 Nov 02 15:08	1°  21'06		desc. node	10640 Sep 28 17:15	8°  02'18	
	10639 Nov 05 19:30	30°  38'38		retrograde	10640 Oct 08 14:35	11°  05'52	
min. Earth dist.	10639 Nov 08 17:55	28°  22'22	0.55800 AU	evening set	10640 Oct 11 20:35	11°  28'26	
inferior conj	10639 Nov 10 20:13	27°  06'42	-5°44'46	min. Earth dist.	10640 Oct 20 01:06	7°  51'47	0.54789 AU
minimum elong	10639 Nov 10 22:01	27°  04'00	5°44'16	inferior conj	10640 Oct 20 17:36	7°  28'35	-5°28'56
morning rise	10639 Nov 19 06:50	23°  04'50		minimum elong	10640 Oct 20 11:12	7°  37'34	5°27'48
direct	10639 Nov 22 00:21	22°  05'51		morning rise	10640 Oct 29 03:23	3°  41'33	
morning max el	10639 Dec 02 08:27	27°  04'57	20°03'40	direct	10640 Nov 01 12:39	3°  16'02	
	10639 Dec 04 11:46	0° 		morning max el	10640 Nov 13 10:13	8°  53'19	21°31'58
asc. node	10639 Dec 06 02:23	1°  25'35		asc. node	10640 Nov 21 23:19	19°  33'41	
morning set	10639 Dec 20 10:45	26°  27'36			10640 Nov 28 00:09	0° 	
	10639 Dec 21 22:27	0° 		morning set	10640 Dec 03 20:08	11°  24'38	
superior conj	10639 Dec 28 03:27	12°  38'37	1°21'14	superior conj	10640 Dec 11 01:17	26°  25'43	1°33'48

minimum elong	10640 Dec 11 02:55	27° 𐌵 03'05	1°34'14			10641 Nov 03 21:28	0° 𐌹	
	10640 Dec 12 13:03	0° 𐌵		asc. node		10641 Nov 08 20:14	7° 𐌹 57'31	
max. Earth dist.	10640 Dec 15 09:21	5° 𐌵 46'49	1.34960 AU	morning set		10641 Nov 18 07:34	26° 𐌹 30'41	
evening rise	10640 Dec 19 13:39	13° 𐌵 55'48				10641 Nov 19 22:42	0° 𐌵	
desc. node	10640 Dec 25 15:34	25° 𐌵 00'34						
	10640 Dec 28 13:31	0° 𐌹		superior conj		10641 Nov 25 06:01	11° 𐌵 28'38	1°39'22
	10641 Jan 18 12:06	0° 𐌵		minimum elong		10641 Nov 25 06:26	11° 𐌵 30'53	1°39'53
evening max el	10641 Jan 23 19:31	5° 𐌵 40'55	26°40'40	max. Earth dist.		10641 Nov 28 04:14	17° 𐌵 42'27	1.33385 AU
retrograde	10641 Feb 05 21:35	13° 𐌵 01'23		evening rise		10641 Dec 03 00:03	27° 𐌵 35'04	
evening set	10641 Feb 12 08:11	10° 𐌵 28'02				10641 Dec 04 05:31	0° 𐌵	
min. Earth dist.	10641 Feb 16 09:40	6° 𐌵 22'19	0.66206 AU	desc. node		10641 Dec 12 12:35	15° 𐌵 12'20	
asc. node	10641 Feb 17 22:10	4° 𐌵 34'27				10641 Dec 21 19:36	0° 𐌹	
inferior conj	10641 Feb 18 07:40	4° 𐌵 06'12	0°07'47	evening max el		10642 Jan 06 08:33	19° 𐌹 10'34	27°19'38
minimum elong	10641 Feb 18 07:27	4° 𐌵 06'51	0°07'59	retrograde		10642 Jan 19 21:46	26° 𐌹 34'09	
transit middle	10641 Feb 18 07:27	4° 𐌵 06'51	0°07'59	evening set		10642 Jan 26 17:08	24° 𐌹 01'15	
transit begin	10641 Feb 18 04:54	4° 𐌵 14'23		min. Earth dist.		10642 Jan 30 13:46	20° 𐌹 28'01	0.64647 AU
transit end	10641 Feb 18 09:59	3° 𐌵 59'19		inferior conj		10642 Feb 01 23:18	17° 𐌹 52'33	-0°56'24
	10641 Feb 22 03:29	30° 𐌹		minimum elong		10642 Feb 02 01:01	17° 𐌹 47'54	0°55'17
morning rise	10641 Feb 24 07:48	28° 𐌹 26'17		asc. node		10642 Feb 04 19:23	14° 𐌹 58'37	
direct	10641 Feb 27 06:04	27° 𐌹 38'42		morning rise		10642 Feb 08 10:38	12° 𐌹 25'50	
	10641 Mar 04 12:37	0° 𐌵		direct		10642 Feb 11 00:12	11° 𐌹 51'45	
morning max el	10641 Mar 05 17:15	1° 𐌵 05'16	18°18'55	morning max el		10642 Feb 17 09:58	15° 𐌹 12'24	17°54'14
desc. node	10641 Mar 23 16:06	26° 𐌵 59'39				10642 Feb 28 00:37	0° 𐌵	
morning set	10641 Mar 25 08:04	29° 𐌵 39'24		morning set		10642 Mar 06 17:58	11° 𐌵 08'58	
	10641 Mar 25 13:13	0° 𐌹		desc. node		10642 Mar 10 12:50	17° 𐌵 27'00	
						10642 Mar 18 05:05	0° 𐌹	
superior conj	10641 Apr 09 21:18	24° 𐌹 15'11	-1°47'04					
minimum elong	10641 Apr 09 11:55	23° 𐌹 38'29	1°46'27	superior conj		10642 Mar 20 12:09	3° 𐌹 40'54	-1°09'45
max. Earth dist.	10641 Apr 11 01:39	26° 𐌹 06'02	1.45663 AU	minimum elong		10642 Mar 20 04:35	3° 𐌹 10'38	1°08'46
	10641 Apr 13 13:33	0° 𐌵		max. Earth dist.		10642 Mar 24 21:02	10° 𐌹 36'47	1.45238 AU
evening rise	10641 Apr 25 20:39	19° 𐌵 13'10		evening rise		10642 Apr 05 11:47	28° 𐌹 38'52	
	10641 May 02 18:01	0° 𐌹				10642 Apr 06 08:56	0° 𐌵	
greatest brilliancy	10641 May 06 12:14	5° 𐌹 48'46	-0.8m	greatest brilliancy		10642 Apr 20 07:08	20° 𐌵 58'12	-0.6m
asc. node	10641 May 16 20:07	20° 𐌹 19'45				10642 Apr 26 18:22	0° 𐌹	
evening max el	10641 May 18 20:36	22° 𐌹 32'24	19°04'45	evening max el		10642 May 02 01:28	6° 𐌹 14'53	19°58'11
retrograde	10641 May 25 17:24	26° 𐌹 22'04		asc. node		10642 May 03 17:19	7° 𐌹 48'16	
evening set	10641 May 29 04:24	25° 𐌹 12'35		retrograde		10642 May 09 15:43	10° 𐌹 36'20	
inferior conj	10641 Jun 03 16:00	19° 𐌹 26'02	3°16'09	evening set		10642 May 13 11:42	9° 𐌹 11'06	
minimum elong	10641 Jun 03 16:35	19° 𐌹 24'08	3°15'35	inferior conj		10642 May 18 19:33	3° 𐌹 10'52	3°16'17
min. Earth dist.	10641 Jun 05 05:40	17° 𐌹 25'23	0.66424 AU	minimum elong		10642 May 18 19:02	3° 𐌹 12'39	3°15'47
morning rise	10641 Jun 09 04:12	13° 𐌹 04'51		min. Earth dist.		10642 May 19 18:42	1° 𐌹 52'47	0.67628 AU
direct	10641 Jun 15 10:35	10° 𐌹 21'33				10642 May 21 05:14	30° 𐌹	
desc. node	10641 Jun 19 16:29	11° 𐌹 23'37		morning rise		10642 May 24 02:02	26° 𐌹 51'18	
morning max el	10641 Jun 28 06:16	18° 𐌹 00'42	26°16'29	direct		10642 May 29 21:23	24° 𐌹 16'21	
	10641 Jul 08 07:49	0° 𐌹		desc. node		10642 Jun 06 13:28	27° 𐌹 37'16	
	10641 Jul 27 20:22	0° 𐌹				10642 Jun 09 07:15	0° 𐌹	
morning set	10641 Aug 03 06:03	11° 𐌹 30'10		morning max el		10642 Jun 10 16:03	1° 𐌹 20'29	24°55'47
max. Earth dist.	10641 Aug 07 04:09	18° 𐌹 58'59	1.34916 AU			10642 Jul 02 07:47	0° 𐌹	
				morning set		10642 Jul 16 14:22	23° 𐌹 34'29	
superior conj	10641 Aug 12 08:21	29° 𐌹 02'38	-0°04'38	max. Earth dist.		10642 Jul 20 04:26	0° 𐌹 03'23	1.36946 AU
minimum elong	10641 Aug 12 08:38	29° 𐌹 22'05	0°04'54			10642 Jul 20 03:42	0° 𐌹	
behind sun begin	10641 Aug 12 02:55	28° 𐌹 02'50						
behind sun end	10641 Aug 12 14:20	29° 𐌹 05'12		superior conj		10642 Jul 26 19:07	12° 𐌹 37'54	-0°37'00
asc. node	10641 Aug 12 19:39	0° 𐌹 18'38		minimum elong		10642 Jul 26 21:30	12° 𐌹 49'34	0°36'58
	10641 Aug 12 16:01	0° 𐌹		asc. node		10642 Jul 30 16:32	20° 𐌹 21'52	
evening rise	10641 Aug 19 23:37	15° 𐌹 13'50		evening rise		10642 Aug 04 03:45	29° 𐌹 22'32	
	10641 Aug 27 11:36	0° 𐌹				10642 Aug 04 11:12	0° 𐌹	
evening max el	10641 Sep 07 16:53	16° 𐌹 00'27	20°42'45	evening max el		10642 Aug 21 04:18	27° 𐌹 16'27	19°31'57
desc. node	10641 Sep 15 14:33	21° 𐌹 08'20				10642 Aug 24 11:19	0° 𐌹	
retrograde	10641 Sep 19 02:21	21° 𐌹 39'36		retrograde		10642 Aug 30 20:48	2° 𐌹 05'02	
evening set	10641 Sep 21 06:38	21° 𐌹 28'05		evening set		10642 Sep 01 17:04	1° 𐌹 55'21	
inferior conj	10641 Sep 30 09:48	17° 𐌹 32'18	-4°16'28	desc. node		10642 Sep 02 11:51	1° 𐌹 45'38	
minimum elong	10641 Sep 29 23:54	17° 𐌹 46'29	4°13'31			10642 Sep 06 20:48	30° 𐌹	
min. Earth dist.	10641 Oct 01 09:20	16° 𐌹 58'32	0.54673 AU	inferior conj		10642 Sep 10 11:17	27° 𐌹 50'19	-2°27'54
morning rise	10641 Oct 08 17:01	13° 𐌹 34'05		minimum elong		10642 Sep 10 04:41	28° 𐌹 00'49	2°25'29
direct	10641 Oct 12 20:49	12° 𐌹 56'57		min. Earth dist.		10642 Sep 12 20:29	26° 𐌹 19'31	0.55505 AU
morning max el	10641 Oct 26 01:12	19° 𐌹 18'38	23°15'54	morning rise		10642 Sep 18 14:01	23° 𐌹 22'46	

direct	10642 Sep 23 13:37	22° \mathbb{M} 27'09		direct	10643 Sep 04 19:59	2° \mathbb{M} 19'37	
morning max el	10642 Oct 07 12:24	29° \mathbb{M} 26'26	25°02'09	morning max el	10643 Sep 19 03:05	9° \mathbb{M} 47'27	26°33'13
	10642 Oct 08 02:19	0° \mathbb{L}			10643 Oct 04 12:48	0° \mathbb{L}	
asc. node	10642 Oct 26 17:07	26° \mathbb{L} 56'32		asc. node	10643 Oct 13 13:58	16° \mathbb{L} 20'47	
	10642 Oct 28 07:23	0° \mathbb{M}		morning set	10643 Oct 18 05:40	25° \mathbb{L} 56'03	
morning set	10642 Nov 02 19:20	11° \mathbb{M} 17'05			10643 Oct 20 02:56	0° \mathbb{M}	
superior conj	10642 Nov 09 15:09	26° \mathbb{M} 13'12	1°38'36	superior conj	10643 Oct 25 02:30	11° \mathbb{M} 00'42	1°31'57
minimum elong	10642 Nov 09 14:27	26° \mathbb{M} 09'19	1°39'00	minimum elong	10643 Oct 25 00:54	10° \mathbb{M} 51'50	1°32'08
	10642 Nov 11 08:34	0° \mathbb{X}		max. Earth dist.	10643 Oct 25 14:47	12° \mathbb{M} 09'01	1.31615 AU
max. Earth dist.	10642 Nov 11 06:54	29° \mathbb{M} 50'57	1.32264 AU	evening rise	10643 Oct 31 23:43	26° \mathbb{M} 01'58	
evening rise	10642 Nov 16 20:23	11° \mathbb{X} 40'05			10643 Nov 02 21:26	0° \mathbb{X}	
	10642 Nov 26 10:52	0° \mathbb{Z}		desc. node	10643 Nov 16 06:49	24° \mathbb{X} 22'34	
desc. node	10642 Nov 29 09:41	5° \mathbb{Z} 02'55			10643 Nov 19 23:57	0° \mathbb{Z}	
	10642 Dec 17 14:02	0° \mathbb{A}		evening max el	10643 Dec 02 02:02	14° \mathbb{Z} 36'31	27°09'12
evening max el	10642 Dec 19 19:39	2° \mathbb{A} 13'51	27°30'48	retrograde	10643 Dec 15 23:34	21° \mathbb{Z} 48'01	
retrograde	10643 Jan 02 14:50	9° \mathbb{A} 32'51		evening set	10643 Dec 22 22:07	19° \mathbb{Z} 40'44	
evening set	10643 Jan 09 14:57	7° \mathbb{A} 08'18		min. Earth dist.	10643 Dec 26 16:34	16° \mathbb{Z} 57'36	0.60733 AU
min. Earth dist.	10643 Jan 13 08:33	4° \mathbb{A} 03'48	0.62795 AU	inferior conj	10643 Dec 29 19:37	14° \mathbb{Z} 18'03	-3°23'48
inferior conj	10643 Jan 16 04:25	1° \mathbb{A} 19'39	-2°08'05	minimum elong	10643 Dec 30 02:25	14° \mathbb{Z} 03'34	3°20'54
minimum elong	10643 Jan 16 08:39	1° \mathbb{A} 09'23	2°05'54	morning rise	10644 Jan 06 09:19	9° \mathbb{Z} 27'12	
	10643 Jan 17 13:50	30° \mathbb{R} \mathbb{Z}		direct	10644 Jan 08 12:50	9° \mathbb{Z} 08'42	
asc. node	10643 Jan 22 16:34	26° \mathbb{Z} 20'49		asc. node	10644 Jan 09 13:41	9° \mathbb{Z} 13'09	
morning rise	10643 Jan 23 04:39	26° \mathbb{Z} 09'08		morning max el	10644 Jan 15 18:28	12° \mathbb{Z} 46'06	17°58'18
direct	10643 Jan 25 11:45	25° \mathbb{Z} 44'37			10644 Jan 27 08:31	0° \mathbb{A}	
morning max el	10643 Feb 01 03:28	29° \mathbb{Z} 09'03	17°47'00	morning set	10644 Jan 31 09:06	7° \mathbb{A} 20'28	
	10643 Feb 01 23:12	0° \mathbb{A}					
morning set	10643 Feb 17 04:29	23° \mathbb{A} 49'22		superior conj	10644 Feb 10 14:33	25° \mathbb{A} 50'17	0°12'42
	10643 Feb 20 17:19	0° \mathbb{H}		minimum elong	10644 Feb 10 15:38	25° \mathbb{A} 55'00	0°12'52
desc. node	10643 Feb 25 09:36	8° \mathbb{H} 03'01		behind sun begin	10644 Feb 10 10:49	25° \mathbb{A} 33'53	
				behind sun end	10644 Feb 10 20:26	26° \mathbb{A} 16'05	
superior conj	10643 Mar 01 00:52	14° \mathbb{H} 10'07	-0°27'10	desc. node	10644 Feb 12 06:23	28° \mathbb{A} 43'49	
minimum elong	10643 Feb 28 22:07	13° \mathbb{H} 58'42	0°26'32		10644 Feb 13 00:02	0° \mathbb{H}	
max. Earth dist.	10643 Mar 07 14:31	24° \mathbb{H} 54'17	1.44124 AU	max. Earth dist.	10644 Feb 18 04:09	8° \mathbb{H} 43'50	1.42434 AU
	10643 Mar 10 19:20	0° \mathbb{Y}		evening rise	10644 Feb 23 23:37	18° \mathbb{H} 08'54	
evening rise	10643 Mar 15 23:54	8° \mathbb{Y} 05'55			10644 Mar 02 15:15	0° \mathbb{Y}	
	10643 Mar 30 15:07	0° \mathbb{B}			10644 Mar 24 08:56	0° \mathbb{B}	
evening max el	10643 Apr 15 00:45	19° \mathbb{B} 58'34	21°05'02	evening max el	10644 Mar 27 18:55	3° \mathbb{B} 43'27	22°21'20
asc. node	10643 Apr 20 14:32	24° \mathbb{B} 15'58		retrograde	10644 Apr 06 11:29	9° \mathbb{B} 27'15	
retrograde	10643 Apr 23 14:19	24° \mathbb{B} 59'34		asc. node	10644 Apr 06 11:45	9° \mathbb{B} 27'15	
evening set	10643 Apr 27 20:13	23° \mathbb{B} 18'29		evening set	10644 Apr 11 04:16	7° \mathbb{B} 30'53	
inferior conj	10643 May 03 02:53	17° \mathbb{B} 06'19	3°04'43	inferior conj	10644 Apr 16 11:53	1° \mathbb{B} 09'08	2°42'53
minimum elong	10643 May 03 01:28	17° \mathbb{B} 11'16	3°04'09	minimum elong	10644 Apr 16 09:53	1° \mathbb{B} 16'06	2°42'12
min. Earth dist.	10643 May 03 12:23	16° \mathbb{B} 33'24	0.68371 AU	min. Earth dist.	10644 Apr 16 08:35	1° \mathbb{B} 20'37	0.68653 AU
morning rise	10643 May 08 06:30	10° \mathbb{B} 50'38			10644 Apr 17 07:49	30° \mathbb{R} \mathbb{Y}	
direct	10643 May 13 12:58	8° \mathbb{B} 31'34		morning rise	10644 Apr 21 15:23	24° \mathbb{Y} 58'42	
morning max el	10643 May 24 01:42	14° \mathbb{B} 47'51	23°26'39	direct	10644 Apr 26 08:17	22° \mathbb{Y} 59'56	
desc. node	10643 May 24 10:24	15° \mathbb{B} 10'01		morning max el	10644 May 05 14:10	28° \mathbb{Y} 24'07	21°58'27
	10643 Jun 05 11:00	0° \mathbb{I}			10644 May 07 02:53	0° \mathbb{B}	
	10643 Jun 25 06:16	0° \mathbb{E}		desc. node	10644 May 10 07:16	3° \mathbb{B} 40'29	
morning set	10643 Jun 28 00:53	4° \mathbb{E} 37'16			10644 May 29 02:31	0° \mathbb{I}	
max. Earth dist.	10643 Jul 02 01:23	11° \mathbb{E} 30'43	1.39219 AU	morning set	10644 Jun 07 09:25	14° \mathbb{I} 29'09	
				max. Earth dist.	10644 Jun 13 01:35	23° \mathbb{I} 46'04	1.41463 AU
superior conj	10643 Jul 09 16:02	25° \mathbb{E} 14'12	-1°10'19		10644 Jun 16 18:05	0° \mathbb{E}	
minimum elong	10643 Jul 09 20:46	25° \mathbb{E} 36'19	1°10'05	superior conj	10644 Jun 20 18:36	6° \mathbb{E} 59'17	-1°41'09
	10643 Jul 12 04:50	0° \mathbb{O}		minimum elong	10644 Jun 21 00:59	7° \mathbb{E} 27'27	1°40'59
asc. node	10643 Jul 17 13:27	10° \mathbb{O} 18'15		evening rise	10644 Jul 01 09:57	26° \mathbb{E} 19'56	
evening rise	10643 Jul 19 00:24	13° \mathbb{O} 07'34		asc. node	10644 Jul 03 10:24	0° \mathbb{O} 03'41	
	10643 Jul 28 05:21	0° \mathbb{M}			10644 Jul 03 09:36	0° \mathbb{O}	
evening max el	10643 Aug 04 03:55	9° \mathbb{M} 17'21	18°42'17	evening max el	10644 Jul 17 12:02	21° \mathbb{O} 55'53	18°13'24
retrograde	10643 Aug 12 08:19	13° \mathbb{M} 22'48		retrograde	10644 Jul 24 15:02	25° \mathbb{O} 32'09	
evening set	10643 Aug 14 07:42	13° \mathbb{M} 09'21		evening set	10644 Jul 26 21:27	25° \mathbb{O} 10'54	
desc. node	10643 Aug 20 09:08	10° \mathbb{M} 10'20		inferior conj	10644 Aug 03 02:32	20° \mathbb{O} 26'39	0°56'10
inferior conj	10643 Aug 22 08:00	8° \mathbb{M} 45'44	-0°36'18	minimum elong	10644 Aug 03 04:19	20° \mathbb{O} 22'47	0°55'09
minimum elong	10643 Aug 22 06:31	8° \mathbb{M} 48'29	0°35'58				
min. Earth dist.	10643 Aug 25 12:11	6° \mathbb{M} 25'21	0.57125 AU	desc. node	10644 Aug 06 06:21	17° \mathbb{O} 42'50	
morning rise	10643 Aug 30 01:56	3° \mathbb{M} 40'45		min. Earth dist.	10644 Aug 06 10:50	17° \mathbb{O} 33'33	0.59232 AU

morning rise	10644 Aug 10 07:55	14° Ω 47'59		morning rise	10645 Jul 23 08:02	26° \mathfrak{D} 45'48	
direct	10644 Aug 16 16:06	12° Ω 57'23		desc. node	10645 Jul 24 03:32	26° \mathfrak{D} 14'16	
morning max el	10644 Aug 31 00:55	20° Ω 45'59	27°34'01	direct	10645 Jul 29 23:55	24° \mathfrak{D} 28'04	
	10644 Sep 08 00:40	0° \mathfrak{M}			10645 Aug 10 13:23	0° Ω	
	10644 Sep 26 09:52	0° \mathfrak{L}		morning max el	10645 Aug 13 05:21	2° Ω 29'01	27°57'04
asc. node	10644 Sep 29 10:48	6° \mathfrak{L} 03'26			10645 Sep 02 11:03	0° \mathfrak{M}	
morning set	10644 Oct 01 12:52	10° \mathfrak{L} 23'03		morning set	10645 Sep 15 15:01	24° \mathfrak{M} 32'49	
max. Earth dist.	10644 Oct 08 00:15	24° \mathfrak{L} 28'19	1.31447 AU	asc. node	10645 Sep 16 07:36	25° \mathfrak{M} 58'31	
					10645 Sep 18 05:34	0° \mathfrak{L}	
superior conj	10644 Oct 08 14:11	25° \mathfrak{L} 45'45	1°19'47	max. Earth dist.	10645 Sep 21 07:27	6° \mathfrak{L} 38'18	1.31766 AU
minimum elong	10644 Oct 08 12:03	25° \mathfrak{L} 33'54	1°19'41				
	10644 Oct 10 11:52	0° \mathfrak{M}		superior conj	10645 Sep 23 00:24	10° \mathfrak{L} 22'56	1°02'19
evening rise	10644 Oct 15 07:44	10° \mathfrak{M} 34'32		minimum elong	10645 Sep 22 22:11	10° \mathfrak{L} 10'44	1°02'00
	10644 Oct 25 03:41	0° \mathfrak{J}		evening rise	10645 Sep 29 18:25	25° \mathfrak{L} 12'10	
desc. node	10644 Nov 02 03:59	12° \mathfrak{J} 59'19			10645 Oct 02 00:42	0° \mathfrak{M}	
evening max el	10644 Nov 13 00:56	26° \mathfrak{J} 08'20	26°13'31		10645 Oct 19 13:40	0° \mathfrak{J}	
	10644 Nov 17 18:57	0° \mathfrak{Z}		desc. node	10645 Oct 20 01:12	0° \mathfrak{J} 36'44	
retrograde	10644 Nov 26 22:58	3° \mathfrak{Z} 12'49		evening max el	10645 Oct 25 15:46	6° \mathfrak{J} 50'37	24°49'20
evening set	10644 Dec 03 10:20	1° \mathfrak{Z} 32'00		retrograde	10645 Nov 08 11:20	13° \mathfrak{J} 46'41	
	10644 Dec 06 01:21	30° \mathfrak{R} \mathfrak{J}		evening set	10645 Nov 13 23:13	12° \mathfrak{J} 39'03	
min. Earth dist.	10644 Dec 07 14:01	28° \mathfrak{J} 57'06	0.58617 AU	min. Earth dist.	10645 Nov 19 03:20	9° \mathfrak{J} 54'12	0.56693 AU
inferior conj	10644 Dec 10 17:20	26° \mathfrak{J} 37'56	-4°35'52	inferior conj	10645 Nov 21 18:58	8° \mathfrak{J} 11'35	-5°29'54
minimum elong	10644 Dec 11 01:22	26° \mathfrak{J} 23'03	4°33'15	minimum elong	10645 Nov 22 00:31	8° \mathfrak{J} 02'37	5°28'42
morning rise	10644 Dec 18 18:59	22° \mathfrak{J} 09'28		morning rise	10645 Nov 30 04:03	4° \mathfrak{J} 05'06	
direct	10644 Dec 20 23:00	21° \mathfrak{J} 53'41		direct	10645 Dec 02 14:26	3° \mathfrak{J} 48'36	
asc. node	10644 Dec 26 10:46	23° \mathfrak{J} 41'42		morning max el	10645 Dec 12 02:06	8° \mathfrak{J} 20'48	19°22'45
morning max el	10644 Dec 29 03:17	25° \mathfrak{J} 53'33	18°29'38	asc. node	10645 Dec 13 07:48	9° \mathfrak{J} 36'25	
	10645 Jan 01 16:16	0° \mathfrak{Z}			10645 Dec 26 04:36	0° \mathfrak{Z}	
morning set	10645 Jan 14 02:21	21° \mathfrak{Z} 25'45		morning set	10645 Dec 29 04:12	5° \mathfrak{Z} 53'37	
	10645 Jan 18 13:20	0° \mathfrak{M}					
superior conj	10645 Jan 23 01:57	8° \mathfrak{M} 31'28	0°45'41	superior conj	10646 Jan 06 06:12	21° \mathfrak{Z} 59'48	1°10'33
minimum elong	10645 Jan 23 04:48	8° \mathfrak{M} 44'38	0°45'42	minimum elong	10646 Jan 06 09:13	22° \mathfrak{Z} 14'27	1°10'41
desc. node	10645 Jan 29 03:11	19° \mathfrak{M} 25'40			10646 Jan 10 10:42	0° \mathfrak{M}	
max. Earth dist.	10645 Jan 30 12:47	21° \mathfrak{M} 51'51	1.40361 AU	max. Earth dist.	10646 Jan 12 18:38	4° \mathfrak{M} 18'28	1.38152 AU
evening rise	10645 Feb 03 19:15	29° \mathfrak{M} 05'47		desc. node	10646 Jan 16 00:03	10° \mathfrak{M} 05'16	
	10645 Feb 04 08:20	0° \mathfrak{H}		evening rise	10646 Jan 16 12:23	10° \mathfrak{M} 59'24	
	10645 Feb 24 03:09	0° \mathfrak{Y}			10646 Jan 28 02:05	0° \mathfrak{H}	
evening max el	10645 Mar 10 09:36	17° \mathfrak{Y} 30'14	23°41'44		10646 Feb 19 15:22	0° \mathfrak{Y}	
retrograde	10645 Mar 21 05:52	23° \mathfrak{Y} 53'59		evening max el	10646 Feb 20 23:02	1° \mathfrak{Y} 20'13	24°59'46
asc. node	10645 Mar 24 08:58	23° \mathfrak{Y} 07'39		retrograde	10646 Mar 04 20:19	8° \mathfrak{Y} 14'53	
evening set	10645 Mar 26 10:17	21° \mathfrak{Y} 43'40		evening set	10646 Mar 10 12:46	5° \mathfrak{Y} 52'56	
min. Earth dist.	10645 Mar 31 05:12	16° \mathfrak{Y} 08'26	0.68497 AU	asc. node	10646 Mar 11 06:11	5° \mathfrak{Y} 13'40	
inferior conj	10645 Mar 31 20:39	15° \mathfrak{Y} 15'37	2°11'27	min. Earth dist.	10646 Mar 15 00:05	0° \mathfrak{Y} 52'37	0.67924 AU
minimum elong	10645 Mar 31 18:28	15° \mathfrak{Y} 23'07	2°10'44		10646 Mar 15 16:07	30° \mathfrak{R} \mathfrak{H}	
morning rise	10645 Apr 06 02:39	9° \mathfrak{Y} 11'34		inferior conj	10646 Mar 16 03:21	29° \mathfrak{H} 22'59	1°30'45
direct	10645 Apr 10 06:14	7° \mathfrak{Y} 34'37		minimum elong	10646 Mar 16 01:27	29° \mathfrak{H} 29'13	1°30'08
morning max el	10645 Apr 18 08:34	12° \mathfrak{Y} 11'17	20°38'28	morning rise	10646 Mar 21 14:26	23° \mathfrak{H} 26'38	
desc. node	10645 Apr 27 04:04	22° \mathfrak{Y} 52'29		direct	10646 Mar 25 05:38	22° \mathfrak{H} 10'45	
	10645 May 02 05:49	0° \mathfrak{B}		morning max el	10646 Apr 01 10:40	26° \mathfrak{H} 10'18	19°31'40
morning set	10645 May 17 17:36	23° \mathfrak{B} 16'39			10646 Apr 04 21:16	0° \mathfrak{Y}	
	10645 May 22 00:35	0° \mathfrak{I}		greatest brilliancy	10646 Apr 14 03:23	12° \mathfrak{Y} 44'31	-0.7m
max. Earth dist.	10645 May 26 07:53	6° \mathfrak{I} 52'28	1.43405 AU	desc. node	10646 Apr 14 00:51	12° \mathfrak{Y} 35'14	
					10646 Apr 25 13:16	0° \mathfrak{B}	
superior conj	10645 Jun 01 22:24	17° \mathfrak{I} 43'07	-2°04'17	morning set	10646 Apr 26 16:35	1° \mathfrak{B} 45'04	
minimum elong	10645 Jun 02 03:44	18° \mathfrak{I} 05'24	2°04'30	max. Earth dist.	10646 May 08 20:43	20° \mathfrak{B} 42'58	1.44829 AU
	10645 Jun 09 03:19	0° \mathfrak{D}					
evening rise	10645 Jun 14 03:49	8° \mathfrak{D} 47'37		superior conj	10646 May 13 02:07	27° \mathfrak{B} 26'03	-2°13'05
asc. node	10645 Jun 20 07:21	19° \mathfrak{D} 32'33		minimum elong	10646 May 13 01:56	27° \mathfrak{B} 25'20	2°13'31
	10645 Jun 26 21:12	0° Ω			10646 May 14 16:28	0° \mathfrak{I}	
evening max el	10645 Jul 01 00:42	5° Ω 01'39	18°04'16	evening rise	10646 May 27 01:11	20° \mathfrak{I} 20'15	
retrograde	10645 Jul 07 13:31	8° Ω 23'44			10646 Jun 01 19:47	0° \mathfrak{D}	
evening set	10645 Jul 10 03:47	7° Ω 51'25		asc. node	10646 Jun 07 04:22	8° \mathfrak{D} 39'02	
inferior conj	10645 Jul 16 16:22	2° Ω 47'44	2°03'06	evening max el	10646 Jun 14 14:29	18° \mathfrak{D} 26'04	18°13'50
minimum elong	10645 Jul 16 19:08	2° Ω 40'47	2°01'50	retrograde	10646 Jun 20 23:14	21° \mathfrak{D} 48'12	
	10645 Jul 19 11:42	30° \mathfrak{R} \mathfrak{D}		evening set	10646 Jun 23 21:29	21° \mathfrak{D} 02'23	
min. Earth dist.	10645 Jul 19 18:08	29° \mathfrak{D} 44'37	0.61502 AU	inferior conj	10646 Jun 29 21:24	15° \mathfrak{D} 40'56	2°46'19
				minimum elong	10646 Jun 29 23:44	15° \mathfrak{D} 34'21	2°45'19

min. Earth dist.	10646 Jul 02 10:37	12°♄49'53	0.63668 AU	min. Earth dist.	10647 Jun 15 12:03	26°♄37'01	0.65534 AU
morning rise	10646 Jul 06 00:29	9°♄26'06		morning rise	10647 Jun 19 06:36	22°♄38'57	
desc. node	10646 Jul 11 00:42	6°♄59'16		direct	10647 Jun 25 18:05	19°♄55'08	
direct	10646 Jul 12 17:11	6°♄49'44		desc. node	10647 Jun 27 21:48	20°♄11'04	
morning max el	10646 Jul 26 14:05	14°♄52'13	27°42'20	morning max el	10647 Jul 09 00:40	27°♄46'17	26°55'11
	10646 Aug 07 21:36	0°♄			10647 Jul 11 03:17	0°♄	
	10646 Aug 26 02:49	0°♄			10647 Aug 01 15:00	0°♄	
morning set	10646 Aug 30 09:45	8°♄18'29		morning set	10647 Aug 13 18:14	21°♄32'42	
asc. node	10646 Sep 03 04:23	16°♄00'54		max. Earth dist.	10647 Aug 18 00:25	29°♄54'39	1.33931 AU
max. Earth dist.	10646 Sep 04 08:32	18°♄28'35	1.32593 AU		10647 Aug 18 01:28	0°♄	
				asc. node	10647 Aug 21 01:12	6°♄06'39	
superior conj	10646 Sep 07 07:12	24°♄46'10	0°39'51	superior conj	10647 Aug 22 08:26	8°♄49'24	0°12'47
minimum elong	10646 Sep 07 05:27	24°♄36'41	0°39'24	minimum elong	10647 Aug 22 07:46	8°♄45'57	0°12'25
	10646 Sep 09 17:04	0°♄		behind sun begin	10647 Aug 22 04:08	8°♄26'54	
evening rise	10646 Sep 14 05:52	9°♄48'59		behind sun end	10647 Aug 22 11:25	9°♄05'03	
	10646 Sep 24 13:16	0°♄		evening rise	10647 Aug 29 16:12	24°♄19'50	
desc. node	10646 Oct 06 22:28	16°♄51'38			10647 Sep 01 09:49	0°♄	
evening max el	10646 Oct 07 02:28	17°♄01'25	23°09'55	evening max el	10647 Sep 18 17:40	27°♄15'12	21°32'28
retrograde	10646 Oct 20 10:41	23°♄40'09			10647 Sep 21 22:06	0°♄	
evening set	10646 Oct 24 12:44	23°♄03'52		desc. node	10647 Sep 23 19:45	1°♄15'27	
min. Earth dist.	10646 Oct 31 11:53	19°♄50'49	0.55270 AU	retrograde	10647 Sep 30 23:45	3°♄20'30	
inferior conj	10646 Nov 02 01:02	18°♄56'58	-5°45'10	evening set	10647 Oct 03 17:01	3°♄03'38	
minimum elong	10646 Nov 01 23:18	18°♄59'28	5°44'44		10647 Oct 11 04:35	30°♄	
morning rise	10646 Nov 10 11:37	15°♄06'23		inferior conj	10647 Oct 12 18:30	29°♄07'22	-5°04'33
direct	10646 Nov 13 11:17	14°♄45'10		minimum elong	10647 Oct 12 09:40	29°♄19'43	5°02'31
morning max el	10646 Nov 24 11:41	19°♄57'39	20°38'38	min. Earth dist.	10647 Oct 12 19:01	29°♄06'38	0.54626 AU
asc. node	10646 Nov 30 04:47	26°♄40'45		morning rise	10647 Oct 21 03:18	25°♄18'24	
	10646 Dec 02 10:35	0°♄		direct	10647 Oct 24 20:34	24°♄48'25	
morning set	10646 Dec 13 11:32	20°♄34'19			10647 Nov 05 12:27	0°♄	
	10646 Dec 18 00:31	0°♄		morning max el	10647 Nov 06 08:03	0°♄44'32	22°14'47
superior conj	10646 Dec 20 22:42	6°♄01'14	1°27'26	asc. node	10647 Nov 17 01:45	14°♄39'29	
minimum elong	10646 Dec 21 00:57	6°♄12'44	1°27'47		10647 Nov 25 08:06	0°♄	
max. Earth dist.	10646 Dec 26 02:39	16°♄18'07	1.36052 AU	morning set	10647 Nov 27 22:04	5°♄21'33	
evening rise	10646 Dec 30 00:25	23°♄41'17		superior conj	10647 Dec 04 23:49	20°♄25'49	1°36'57
desc. node	10647 Jan 02 20:58	0°♄37'47		minimum elong	10647 Dec 05 00:56	20°♄31'43	1°37'27
	10647 Jan 02 12:23	0°♄		max. Earth dist.	10647 Dec 08 17:14	28°♄11'41	1.34249 AU
	10647 Jan 21 18:13	0°♄			10647 Dec 09 14:31	0°♄	
evening max el	10647 Feb 03 12:33	15°♄09'16	26°08'23	evening rise	10647 Dec 13 03:42	7°♄02'10	
retrograde	10647 Feb 16 05:44	22°♄22'59		desc. node	10647 Dec 20 17:57	20°♄58'43	
evening set	10647 Feb 22 10:00	19°♄52'44			10647 Dec 26 03:44	0°♄	
asc. node	10647 Feb 26 03:26	16°♄01'52		evening max el	10648 Jan 17 02:07	28°♄49'12	27°00'09
min. Earth dist.	10647 Feb 26 14:56	15°♄27'07	0.66947 AU		10648 Jan 18 08:29	0°♄	
inferior conj	10647 Feb 28 06:00	13°♄26'19	0°40'46	retrograde	10648 Jan 30 09:18	6°♄11'06	
minimum elong	10647 Feb 28 04:59	13°♄29'29	0°40'34	evening set	10648 Feb 06 00:05	3°♄37'17	
morning rise	10647 Mar 06 00:39	7°♄39'33			10648 Feb 09 18:18	30°♄	
direct	10647 Mar 09 04:44	6°♄42'26		min. Earth dist.	10648 Feb 09 23:28	29°♄45'39	0.65593 AU
morning max el	10647 Mar 15 20:06	10°♄17'24	18°40'38	inferior conj	10648 Feb 12 02:23	27°♄20'28	-0°18'23
	10647 Mar 30 04:25	0°♄		minimum elong	10648 Feb 12 02:54	27°♄18'59	0°17'50
desc. node	10647 Mar 31 21:38	2°♄40'04		asc. node	10648 Feb 13 00:41	26°♄17'23	
morning set	10647 Apr 06 05:59	11°♄02'00		morning rise	10648 Feb 18 07:01	21°♄45'44	
	10647 Apr 18 08:53	0°♄		direct	10648 Feb 21 01:28	21°♄04'12	
max. Earth dist.	10647 Apr 21 14:41	5°♄04'12	1.45577 AU	morning max el	10648 Feb 27 10:56	24°♄26'36	18°06'16
superior conj	10647 Apr 22 11:55	6°♄27'18	-2°02'15		10648 Mar 03 02:13	0°♄	
minimum elong	10647 Apr 22 04:33	5°♄58'29	2°02'07	morning set	10648 Mar 16 23:22	21°♄43'22	
	10647 May 07 09:24	0°♄		desc. node	10648 Mar 17 18:22	23°♄00'38	
evening rise	10647 May 07 22:48	0°♄53'33			10648 Mar 22 02:00	0°♄	
greatest brilliancy	10647 May 15 09:43	12°♄48'20	-0.9m	superior conj	10648 Mar 31 19:33	15°♄29'34	-1°32'30
asc. node	10647 May 25 01:27	27°♄15'48		minimum elong	10648 Mar 31 10:13	14°♄52'50	1°31'37
	10647 May 27 05:46	0°♄		max. Earth dist.	10648 Apr 03 10:53	19°♄38'10	1.45577 AU
evening max el	10647 May 29 02:28	2°♄01'55	18°41'17		10648 Apr 10 02:21	0°♄	
retrograde	10647 Jun 04 16:21	5°♄37'41		evening rise	10648 Apr 16 22:31	10°♄36'39	
evening set	10647 Jun 07 22:40	4°♄36'54		greatest brilliancy	10648 Apr 29 14:02	29°♄59'46	-0.7m
	10647 Jun 12 17:45	30°♄			10648 Apr 29 14:05	0°♄	
inferior conj	10647 Jun 13 13:44	28°♄59'04	3°09'55	asc. node	10648 May 10 22:36	15°♄12'39	
minimum elong	10647 Jun 13 15:01	28°♄55'08	3°09'14				

evening max el	10648 May 11 10:21	15° Π 42'53	19°25'39	evening set	10649 May 06 12:28	2° Π 31'36	
retrograde	10648 May 18 13:35	19° Π 44'41			10649 May 09 01:44	30° \mathbb{R} 8	
evening set	10648 May 22 04:24	18° Π 28'18		inferior conj	10649 May 11 19:30	26° \mathbb{B} 25'45	3°12'42
inferior conj	10648 May 27 14:02	12° Π 35'35	3°17'45	minimum elong	10649 May 11 18:34	26° \mathbb{B} 28'58	3°12'11
minimum elong	10648 May 27 14:08	12° Π 35'15	3°17'14	min. Earth dist.	10649 May 12 12:39	25° \mathbb{B} 27'00	0.67998 AU
min. Earth dist.	10648 May 28 21:20	10° Π 52'48	0.66992 AU	morning rise	10649 May 17 00:24	20° \mathbb{B} 07'30	
morning rise	10648 Jun 01 23:28	6° Π 14'53		direct	10649 May 22 14:17	17° \mathbb{B} 38'49	
direct	10648 Jun 08 01:24	3° Π 34'23		desc. node	10649 May 31 15:48	22° \mathbb{B} 17'23	
desc. node	10648 Jun 13 18:51	5° Π 26'55		morning max el	10649 Jun 02 20:54	24° \mathbb{B} 24'10	24°18'19
morning max el	10648 Jun 20 11:09	10° Π 59'51	25°43'54		10649 Jun 07 21:19	0° Π	
	10648 Jul 05 14:08	0° \mathbb{B}			10649 Jun 29 00:30	0° \mathbb{B}	
	10648 Jul 24 06:14	0° Ω		morning set	10649 Jul 08 12:18	15° \mathbb{B} 44'59	
morning set	10648 Jul 26 12:37	4° Ω 05'18		max. Earth dist.	10649 Jul 12 04:13	22° \mathbb{B} 13'08	1.37900 AU
max. Earth dist.	10648 Jul 30 06:05	11° Ω 02'27	1.35740 AU		10649 Jul 16 10:00	0° Ω	
superior conj	10648 Aug 05 01:20	22° Ω 25'00	-0°18'04	superior conj	10649 Jul 19 06:39	5° Ω 25'24	-0°51'11
minimum elong	10648 Aug 05 02:27	22° Ω 30'35	0°18'14	minimum elong	10649 Jul 19 10:03	5° Ω 41'41	0°51'04
asc. node	10648 Aug 06 22:02	26° Ω 11'27		asc. node	10649 Jul 24 18:55	16° Ω 11'55	
	10648 Aug 08 18:39	0° \mathbb{P}		evening rise	10649 Jul 28 00:36	22° Ω 37'28	
evening rise	10648 Aug 12 23:16	8° \mathbb{P} 38'05			10649 Jul 31 19:10	0° \mathbb{P}	
	10648 Aug 24 12:26	0° $\underline{\mathbb{A}}$		evening max el	10649 Aug 13 13:40	19° \mathbb{P} 37'40	19°08'08
evening max el	10648 Aug 30 20:48	8° $\underline{\mathbb{A}}$ 02'49	20°10'00	retrograde	10649 Aug 22 14:00	24° \mathbb{P} 06'49	
desc. node	10648 Sep 09 17:03	13° $\underline{\mathbb{A}}$ 18'58		evening set	10649 Aug 24 10:30	23° \mathbb{P} 56'12	
retrograde	10648 Sep 10 12:52	13° $\underline{\mathbb{A}}$ 20'48		desc. node	10649 Aug 27 14:19	22° \mathbb{P} 53'49	
evening set	10648 Sep 12 11:54	13° $\underline{\mathbb{A}}$ 10'51		inferior conj	10649 Sep 01 21:41	19° \mathbb{P} 43'54	-1°39'10
inferior conj	10648 Sep 21 12:49	9° $\underline{\mathbb{A}}$ 12'13	-3°32'48	minimum elong	10649 Sep 01 17:21	19° \mathbb{P} 51'16	1°37'37
minimum elong	10648 Sep 21 03:44	9° $\underline{\mathbb{A}}$ 25'44	3°29'44	min. Earth dist.	10649 Sep 04 16:54	17° \mathbb{P} 50'19	0.56110 AU
min. Earth dist.	10648 Sep 23 03:54	8° $\underline{\mathbb{A}}$ 14'10	0.54916 AU	morning rise	10649 Sep 09 21:11	15° \mathbb{P} 00'09	
morning rise	10648 Sep 29 18:35	5° $\underline{\mathbb{A}}$ 03'36		direct	10649 Sep 15 04:44	13° \mathbb{P} 54'32	
direct	10648 Oct 04 06:38	4° $\underline{\mathbb{A}}$ 19'47		morning max el	10649 Sep 29 08:33	21° \mathbb{P} 07'46	25°43'54
morning max el	10648 Oct 17 20:25	10° $\underline{\mathbb{A}}$ 57'52	24°01'59		10649 Oct 07 01:44	0° $\underline{\mathbb{A}}$	
	10648 Nov 01 01:30	0° \mathbb{M}		asc. node	10649 Oct 20 19:31	22° $\underline{\mathbb{A}}$ 29'13	
asc. node	10648 Nov 02 22:40	3° \mathbb{M} 19'04			10649 Oct 24 13:34	0° \mathbb{M}	
morning set	10648 Nov 11 09:52	20° \mathbb{M} 09'24		morning set	10649 Oct 26 21:11	4° \mathbb{M} 52'43	
	10648 Nov 15 22:50	0° \mathbb{X}		superior conj	10649 Nov 02 16:59	19° \mathbb{M} 51'01	1°36'29
superior conj	10648 Nov 18 06:42	5° \mathbb{X} 04'52	1°39'47	minimum elong	10649 Nov 02 15:52	19° \mathbb{M} 44'50	1°36'48
minimum elong	10648 Nov 18 06:38	5° \mathbb{X} 04'26	1°40'16	max. Earth dist.	10649 Nov 03 20:48	22° \mathbb{M} 24'32	1.31919 AU
max. Earth dist.	10648 Nov 20 15:45	10° \mathbb{X} 12'46	1.32849 AU		10649 Nov 07 08:29	0° \mathbb{X}	
evening rise	10648 Nov 25 18:40	20° \mathbb{X} 52'49		evening rise	10649 Nov 09 18:13	5° \mathbb{X} 05'07	
	10648 Nov 30 10:55	0° \mathbb{Z}			10649 Nov 23 02:12	0° \mathbb{Z}	
desc. node	10648 Dec 06 15:00	11° \mathbb{Z} 02'20		desc. node	10649 Nov 23 12:06	0° \mathbb{Z} 40'40	
	10648 Dec 19 02:36	0° \approx		evening max el	10649 Dec 11 23:41	24° \mathbb{Z} 55'28	27°25'51
evening max el	10648 Dec 29 14:31	12° \approx 08'59	27°28'02		10649 Dec 18 13:43	0° \approx	
retrograde	10649 Jan 12 06:29	19° \approx 31'08		retrograde	10649 Dec 25 20:24	2° \approx 12'27	
evening set	10649 Jan 19 04:43	17° \approx 00'26		evening set	10650 Jan 01 20:49	29° \mathbb{Z} 53'48	
min. Earth dist.	10649 Jan 22 23:39	13° \approx 40'26	0.63896 AU		10650 Jan 01 16:57	30° \mathbb{R} 3	
inferior conj	10649 Jan 25 13:57	10° \approx 59'41	-1°26'01	min. Earth dist.	10650 Jan 05 13:54	26° \mathbb{Z} 59'47	0.61928 AU
minimum elong	10649 Jan 25 16:41	10° \approx 52'37	1°24'26	inferior conj	10650 Jan 08 13:33	24° \mathbb{Z} 15'23	-2°40'06
asc. node	10649 Jan 29 21:54	7° \approx 00'38		minimum elong	10650 Jan 08 18:55	24° \mathbb{Z} 03'01	2°37'31
morning rise	10649 Feb 01 06:38	5° \approx 39'44		morning rise	10650 Jan 15 19:35	19° \mathbb{Z} 13'11	
direct	10649 Feb 03 17:12	5° \approx 10'09		asc. node	10650 Jan 16 19:04	18° \mathbb{Z} 58'30	
morning max el	10649 Feb 10 04:28	8° \approx 30'55	17°49'00	direct	10650 Jan 18 00:37	18° \mathbb{Z} 51'47	
	10649 Feb 24 15:32	0° \mathbb{H}		morning max el	10650 Jan 24 21:24	22° \mathbb{Z} 20'42	17°49'31
morning set	10649 Feb 26 20:34	3° \mathbb{H} 45'52			10650 Jan 30 19:52	0° \approx	
desc. node	10649 Mar 04 15:07	13° \mathbb{H} 32'22		morning set	10650 Feb 09 15:32	16° \approx 49'55	
					10650 Feb 17 01:51	0° \mathbb{H}	
superior conj	10649 Mar 11 18:48	25° \mathbb{H} 20'30	-0°51'46	desc. node	10650 Feb 19 11:52	4° \mathbb{H} 10'45	
minimum elong	10649 Mar 11 13:13	24° \mathbb{H} 57'51	0°50'53	superior conj	10650 Feb 20 18:19	6° \mathbb{H} 20'47	-0°09'38
	10649 Mar 14 16:09	0° \mathbb{Y}		minimum elong	10650 Feb 20 17:26	6° \mathbb{H} 17'02	0°09'13
max. Earth dist.	10649 Mar 17 06:04	4° \mathbb{Y} 06'37	1.44843 AU	behind sun begin	10650 Feb 20 10:17	5° \mathbb{H} 46'32	
evening rise	10649 Mar 27 10:30	19° \mathbb{Y} 58'27		behind sun end	10650 Feb 21 00:36	6° \mathbb{H} 47'27	
	10649 Apr 03 00:47	0° \mathbb{B}		max. Earth dist.	10650 Feb 27 21:36	18° \mathbb{H} 12'10	1.43462 AU
evening max el	10649 Apr 24 12:46	29° \mathbb{B} 25'45	20°25'07	evening rise	10650 Mar 07 01:59	29° \mathbb{H} 37'02	
	10649 Apr 25 02:37	0° Π			10650 Mar 07 07:53	0° \mathbb{Y}	
asc. node	10649 Apr 27 19:49	2° Π 17'21			10650 Mar 27 16:35	0° \mathbb{B}	
retrograde	10649 May 02 12:24	4° Π 03'41					

evening max el	10650 Apr 07 09:37	13° 8 09'18	21°36'35	evening rise	10651 Feb 15 09:41	10° X 02'14	
asc. node	10650 Apr 14 17:02	18° 8 14'19			10651 Feb 28 08:49	0° Y	
retrograde	10650 Apr 16 10:39	18° 8 29'01		evening max el	10651 Mar 21 02:12	26° Y 55'15	22°55'24
evening set	10650 Apr 20 20:57	16° 8 41'30			10651 Mar 24 12:24	0° 8	
inferior conj	10650 Apr 26 03:48	10° 8 24'47	2°56'38	retrograde	10651 Mar 31 06:44	2° 8 56'32	
minimum elong	10650 Apr 26 02:05	10° 8 30'45	2°56'02	asc. node	10651 Apr 01 14:15	2° 8 48'12	
min. Earth dist.	10650 Apr 26 07:48	10° 8 10'50	0.68546 AU	evening set	10651 Apr 05 04:19	0° 8 54'17	
morning rise	10650 May 01 07:00	4° 8 10'53			10651 Apr 06 03:43	30° R Y	
direct	10650 May 06 07:40	2° 8 00'02		min. Earth dist.	10651 Apr 10 04:30	24° Y 58'46	0.68646 AU
morning max el	10650 May 16 07:18	7° 8 54'46	22°48'23	inferior conj	10651 Apr 10 12:56	24° Y 29'32	2°30'41
desc. node	10650 May 18 12:42	10° 8 16'37		minimum elong	10651 Apr 10 10:48	24° Y 36'56	2°29'59
	10650 Jun 02 12:22	0° II		morning rise	10651 Apr 15 17:09	18° Y 21'30	
morning set	10650 Jun 19 12:05	26° II 18'16		direct	10651 Apr 20 04:25	16° Y 31'43	
	10650 Jun 21 17:26	0° 6		morning max el	10651 Apr 28 21:47	21° Y 34'33	21°22'54
max. Earth dist.	10650 Jun 24 01:12	3° 6 56'03	1.40191 AU	desc. node	10651 May 05 09:33	29° Y 06'09	
					10651 May 06 02:14	0° 8	
superior conj	10650 Jul 01 20:17	17° 6 40'54	-1°23'59		10651 May 26 18:31	0° II	
minimum elong	10650 Jul 02 01:55	18° 6 06'30	1°23'44	morning set	10651 May 30 09:18	5° II 39'18	
	10650 Jul 08 11:12	0° Q		max. Earth dist.	10651 Jun 06 03:38	16° II 32'39	1.42346 AU
evening rise	10650 Jul 11 16:59	6° Q 09'29					
asc. node	10650 Jul 11 15:50	6° Q 04'00		superior conj	10651 Jun 13 13:39	29° II 00'52	-1°52'17
	10650 Jul 25 22:51	0° P		minimum elong	10651 Jun 13 20:03	29° II 28'28	1°52'16
evening max el	10650 Jul 27 17:27	1° P 56'09	18°27'35		10651 Jun 14 03:21	0° 6	
retrograde	10650 Aug 04 09:40	5° P 47'05		evening rise	10651 Jun 24 20:24	19° 6 03'42	
evening set	10650 Aug 06 11:47	5° P 30'50		asc. node	10651 Jun 28 12:46	25° 6 42'42	
inferior conj	10650 Aug 14 03:48	0° P 58'49	0°05'55		10651 Jun 30 22:57	0° Q	
minimum elong	10650 Aug 14 04:00	0° P 58'25	0°05'32	evening max el	10651 Jul 11 04:02	14° Q 47'35	18°07'13
transit middle	10650 Aug 14 04:00	0° P 58'25	0°05'32	retrograde	10651 Jul 17 23:27	18° Q 15'37	
transit begin	10650 Aug 14 00:39	1° P 05'03		evening set	10651 Jul 20 09:21	17° Q 49'51	
transit end	10650 Aug 14 07:21	0° P 51'45		inferior conj	10651 Jul 27 06:57	12° Q 57'10	1°27'43
desc. node	10650 Aug 14 11:33	0° P 43'24		minimum elong	10651 Jul 27 09:24	12° Q 51'32	1°26'29
	10650 Aug 15 09:16	30° R Q		min. Earth dist.	10651 Jul 30 13:32	9° Q 57'05	0.60200 AU
min. Earth dist.	10650 Aug 17 11:35	28° Q 21'38	0.57980 AU	desc. node	10651 Aug 01 08:46	8° Q 27'40	
morning rise	10650 Aug 21 16:41	25° Q 38'27		morning rise	10651 Aug 03 06:32	7° Q 07'38	
direct	10650 Aug 27 17:37	24° Q 04'29		direct	10651 Aug 09 19:02	5° Q 04'44	
	10650 Sep 09 05:36	0° P		morning max el	10651 Aug 24 02:36	12° Q 59'01	27°48'36
morning max el	10650 Sep 11 02:01	1° P 42'47	27°03'23		10651 Sep 06 15:17	0° P	
	10650 Oct 01 08:08	0° A			10651 Sep 23 15:34	0° A	
asc. node	10650 Oct 07 16:20	12° A 02'04		asc. node	10651 Sep 24 13:07	1° A 50'17	
morning set	10650 Oct 11 06:23	19° A 27'13		morning set	10651 Sep 25 11:38	3° A 47'03	
	10650 Oct 16 02:37	0° M		max. Earth dist.	10651 Oct 01 14:36	17° A 00'09	1.31525 AU
superior conj	10650 Oct 18 04:42	4° M 38'31	1°27'28	superior conj	10651 Oct 02 15:58	19° A 20'36	1°13'01
minimum elong	10650 Oct 18 02:50	4° M 28'06	1°27'32	minimum elong	10651 Oct 02 13:44	19° A 08'15	1°12'48
max. Earth dist.	10650 Oct 18 05:37	4° M 43'38	1.31478 AU		10651 Oct 07 11:31	0° M	
evening rise	10650 Oct 24 23:49	19° M 32'34		evening rise	10651 Oct 09 09:12	4° M 07'55	
	10650 Oct 30 02:27	0° X			10651 Oct 22 23:19	0° X	
desc. node	10650 Nov 10 09:15	19° X 43'49		desc. node	10651 Oct 28 06:25	7° X 57'17	
	10650 Nov 17 18:44	0° 3		evening max el	10651 Nov 05 22:48	18° X 07'52	25°40'38
evening max el	10650 Nov 24 03:14	6° 3 57'45	26°49'41	retrograde	10651 Nov 19 20:10	25° X 08'16	
retrograde	10650 Dec 08 01:40	14° 3 06'32		evening set	10651 Nov 25 23:08	23° X 41'22	
evening set	10650 Dec 14 20:31	12° 3 09'42		min. Earth dist.	10651 Nov 30 11:14	21° X 04'31	0.57761 AU
min. Earth dist.	10650 Dec 18 17:34	9° 3 31'43	0.59819 AU	inferior conj	10651 Dec 03 11:05	18° X 59'27	-5°02'06
inferior conj	10650 Dec 21 21:44	6° 3 58'47	-3°55'32	minimum elong	10651 Dec 03 18:40	18° X 46'14	5°00'01
minimum elong	10650 Dec 22 05:20	6° 3 43'29	3°52'35	morning rise	10651 Dec 11 16:33	14° X 40'13	
morning rise	10650 Dec 29 16:51	2° 3 17'03		direct	10651 Dec 13 22:35	14° X 24'28	
direct	10650 Dec 31 19:49	2° 3 00'12		asc. node	10651 Dec 21 13:12	17° X 38'06	
asc. node	10651 Jan 03 16:09	2° 3 31'56		morning max el	10651 Dec 22 15:07	18° X 37'01	18°49'28
morning max el	10651 Jan 08 10:14	5° 3 46'28	18°09'03		10651 Dec 30 23:38	0° 3	
	10651 Jan 23 18:11	0° A		morning set	10652 Jan 07 23:28	14° 3 53'09	
morning set	10651 Jan 24 02:09	0° A 37'20			10652 Jan 15 17:54	0° A	
superior conj	10651 Feb 02 17:49	18° A 28'18	0°27'37	superior conj	10652 Jan 16 12:56	1° A 30'28	0°57'13
minimum elong	10651 Feb 02 19:53	18° A 37'34	0°27'41	minimum elong	10652 Jan 16 16:00	1° A 44'58	0°57'16
desc. node	10651 Feb 06 08:41	24° A 52'22		max. Earth dist.	10652 Jan 23 16:09	14° A 34'23	1.39427 AU
	10651 Feb 09 08:14	0° X		desc. node	10652 Jan 24 05:31	15° A 33'19	
max. Earth dist.	10651 Feb 10 08:45	1° X 43'39	1.41588 AU	evening rise	10652 Jan 27 14:35	21° A 23'20	

	10652 Feb 01 19:31	0° H		evening rise	10653 Jan 08 16:05	3° \approx 37'37	
	10652 Feb 22 09:48	0° Y		desc. node	10653 Jan 10 02:24	6° \approx 09'54	
evening max el	10652 Mar 02 16:17	10° Y 44'05	24°15'40		10653 Jan 24 20:30	0° H	
retrograde	10652 Mar 13 23:25	17° Y 21'31		evening max el	10653 Feb 13 05:33	24° H 33'35	25°30'34
asc. node	10652 Mar 18 11:27	15° Y 48'06			10653 Feb 20 02:15	0° Y	
evening set	10652 Mar 19 09:01	15° Y 05'56		retrograde	10653 Feb 25 11:48	1° Y 37'47	
min. Earth dist.	10652 Mar 24 00:35	9° Y 45'45	0.68307 AU		10653 Mar 02 08:10	30° R H	
inferior conj	10652 Mar 24 21:03	8° Y 36'47	1°55'21	evening set	10653 Mar 03 09:31	29° H 11'30	
minimum elong	10652 Mar 24 18:55	8° Y 43'58	1°54'38	asc. node	10653 Mar 05 08:43	27° H 16'59	
morning rise	10652 Mar 30 04:54	2° Y 35'57		min. Earth dist.	10653 Mar 07 17:54	24° H 26'20	0.67553 AU
direct	10652 Apr 03 03:12	1° Y 08'01		inferior conj	10653 Mar 09 02:16	22° H 42'27	1°10'42
morning max el	10652 Apr 10 19:23	5° Y 26'53	20°08'17	minimum elong	10653 Mar 09 00:40	22° H 47'36	1°10'13
desc. node	10652 Apr 21 06:23	18° Y 32'26		morning rise	10653 Mar 14 16:17	16° H 50'15	
	10652 Apr 29 02:49	0° B		direct	10653 Mar 18 02:36	15° H 42'47	
morning set	10652 May 08 11:04	14° B 11'37		morning max el	10653 Mar 25 00:51	19° H 30'08	19°08'05
max. Earth dist.	10652 May 18 13:35	0° II 02'17	1.44091 AU		10653 Apr 02 10:14	0° Y	
	10652 May 18 13:00	0° II		greatest brilliancy	10653 Apr 07 03:51	6° Y 57'20	-0.7m
				desc. node	10653 Apr 08 03:10	8° Y 25'08	
superior conj	10652 May 24 07:10	9° II 18'37	-2°10'10	morning set	10653 Apr 17 13:35	22° Y 53'36	
minimum elong	10652 May 24 10:42	9° II 33'08	2°10'32		10653 Apr 22 03:39	0° B	
	10652 Jun 05 14:01	0° B		max. Earth dist.	10653 May 01 05:12	14° B 08'55	1.45232 AU
evening rise	10652 Jun 06 06:12	1° B 09'43					
asc. node	10652 Jun 14 09:46	15° B 03'03		superior conj	10653 May 04 01:53	18° B 39'34	-2°11'02
evening max el	10652 Jun 23 17:37	28° B 02'33	18°06'02	minimum elong	10653 May 03 22:27	18° B 26'00	2°11'20
	10652 Jun 26 02:03	0° Q			10653 May 11 04:27	0° II	
retrograde	10652 Jun 30 03:25	1° Q 22'56		evening rise	10653 May 18 17:46	12° II 17'35	
evening set	10652 Jul 02 21:09	0° Q 44'58			10653 May 29 15:46	0° B	
	10652 Jul 04 05:32	30° R B		asc. node	10653 Jun 01 06:49	3° B 58'00	
inferior conj	10652 Jul 09 03:49	25° B 33'12	2°24'07	evening max el	10653 Jun 07 06:55	11° B 32'19	18°23'17
minimum elong	10652 Jul 09 06:32	25° B 26'03	2°22'55	retrograde	10653 Jun 13 16:54	14° B 59'02	
min. Earth dist.	10652 Jul 12 00:34	22° B 33'07	0.62453 AU	evening set	10653 Jun 16 18:29	14° B 07'03	
morning rise	10652 Jul 15 13:56	19° B 24'45		inferior conj	10653 Jun 22 14:11	8° B 38'13	2°58'28
desc. node	10652 Jul 18 05:58	17° B 50'50		minimum elong	10653 Jun 22 16:06	8° B 32'34	2°57'36
direct	10652 Jul 22 06:54	16° B 58'13		min. Earth dist.	10653 Jun 24 21:07	5° B 57'51	0.64505 AU
morning max el	10652 Aug 05 09:17	25° B 00'24	27°55'14	morning rise	10653 Jun 28 12:34	2° B 20'05	
	10652 Aug 09 22:40	0° Q			10653 Jul 02 17:27	30° R II	
	10652 Aug 30 02:22	0° P		direct	10653 Jul 05 03:30	29° II 39'20	
morning set	10652 Sep 08 10:57	17° P 47'08		desc. node	10653 Jul 05 03:07	29° II 39'20	
asc. node	10652 Sep 10 09:56	21° P 48'52			10653 Jul 07 16:06	0° B	
max. Earth dist.	10652 Sep 13 19:53	29° P 03'40	1.32064 AU	morning max el	10653 Jul 18 19:25	7° B 39'08	27°25'48
	10652 Sep 14 06:18	0° Q			10653 Aug 05 01:24	0° Q	
					10653 Aug 22 09:16	0° P	
superior conj	10652 Sep 16 00:58	3° Q 52'11	0°53'22	morning set	10653 Aug 23 01:47	1° P 20'37	
minimum elong	10652 Sep 15 22:53	3° Q 40'45	0°52'59	max. Earth dist.	10653 Aug 27 17:32	10° P 44'26	1.33102 AU
evening rise	10652 Sep 22 20:28	18° Q 45'47		asc. node	10653 Aug 28 06:45	11° P 53'04	
	10652 Sep 28 06:57	0° M					
desc. node	10652 Oct 14 03:39	25° M 02'18		superior conj	10653 Aug 31 05:43	18° P 07'27	0°28'53
evening max el	10652 Oct 17 10:57	28° M 32'24	24°07'44	minimum elong	10653 Aug 31 04:20	18° P 00'08	0°28'27
	10652 Oct 19 01:22	0° J			10653 Sep 05 18:10	0° Q	
retrograde	10652 Oct 31 02:42	5° J 22'28		evening rise	10653 Sep 07 07:42	3° Q 20'35	
evening set	10652 Nov 05 01:24	4° J 28'46			10653 Sep 21 19:29	0° M	
min. Earth dist.	10652 Nov 10 21:39	1° J 34'14	0.56014 AU	evening max el	10653 Sep 28 22:14	8° M 39'15	22°27'12
inferior conj	10652 Nov 13 03:57	0° J 11'13	-5°42'23	desc. node	10653 Oct 01 00:55	10° M 33'42	
minimum elong	10652 Nov 13 06:52	0° J 06'44	5°41'45	retrograde	10653 Oct 11 21:32	15° M 06'47	
	10652 Nov 13 11:16	30° R M		evening set	10653 Oct 15 08:26	14° M 40'30	
morning rise	10652 Nov 21 14:23	26° M 13'00		min. Earth dist.	10653 Oct 23 05:12	11° M 10'25	0.54882 AU
direct	10652 Nov 24 05:52	25° M 54'53		inferior conj	10653 Oct 24 03:23	10° M 39'04	-5°35'13
	10652 Dec 03 13:48	0° J		minimum elong	10653 Oct 23 22:07	10° M 46'31	5°34'19
morning max el	10652 Dec 04 08:30	0° J 42'49	19°52'22	morning rise	10653 Nov 01 13:26	6° M 51'41	
asc. node	10652 Dec 07 10:14	4° J 03'54		direct	10653 Nov 04 20:01	6° M 27'28	
morning set	10652 Dec 22 03:57	29° J 27'01		morning max el	10653 Nov 16 12:23	11° M 58'26	21°17'32
	10652 Dec 22 10:27	0° B		asc. node	10653 Nov 24 07:14	21° M 33'18	
					10653 Nov 29 08:29	0° J	
superior conj	10652 Dec 29 22:52	15° B 13'53	1°18'39	morning set	10653 Dec 06 12:55	14° J 11'29	
minimum elong	10652 Dec 30 01:38	15° B 27'37	1°18'53				
max. Earth dist.	10653 Jan 04 22:29	26° B 47'36	1.37230 AU	superior conj	10653 Dec 13 19:29	29° J 26'58	1°32'20
	10653 Jan 06 16:03	0° \approx		minimum elong	10653 Dec 13 21:17	29° J 36'16	1°32'45

	10653 Dec 14 01:52	0°♄		minimum elong	10654 Nov 27 23:59	14°♄01'55	1°39'26
max. Earth dist.	10653 Dec 18 08:41	8°♄41'34	1.35232 AU	max. Earth dist.	10654 Dec 01 02:25	20°♄36'07	1.33596 AU
evening rise	10653 Dec 22 11:06	16°♄37'35		evening rise	10654 Dec 05 19:47	0°♄12'26	
desc. node	10653 Dec 27 23:20	26°♄38'12			10654 Dec 05 17:16	0°♄	
	10653 Dec 29 22:05	0°♄		desc. node	10654 Dec 14 20:19	16°♄52'24	
	10654 Jan 19 06:41	0°♄			10654 Dec 22 23:18	0°♄	
evening max el	10654 Jan 26 18:58	8°♄19'26	26°32'53	evening max el	10655 Jan 09 08:15	21°♄52'16	27°15'23
retrograde	10654 Feb 08 19:02	15°♄38'46		retrograde	10655 Jan 22 20:08	29°♄15'35	
evening set	10654 Feb 15 04:01	13°♄06'02		evening set	10655 Jan 29 14:22	26°♄42'21	
min. Earth dist.	10654 Feb 19 06:21	8°♄55'08	0.66410 AU	min. Earth dist.	10655 Feb 02 11:43	23°♄04'18	0.64905 AU
asc. node	10654 Feb 20 05:58	7°♄44'41		inferior conj	10655 Feb 04 19:32	20°♄31'15	-0°46'06
inferior conj	10654 Feb 21 02:33	6°♄42'40	0°16'48	minimum elong	10655 Feb 04 20:54	20°♄27'28	0°45'09
minimum elong	10654 Feb 21 02:06	6°♄44'02	0°16'52	asc. node	10655 Feb 07 03:12	18°♄04'29	
morning rise	10654 Feb 27 01:12	1°♄00'52		morning rise	10655 Feb 11 05:03	15°♄02'14	
direct	10654 Mar 02 00:52	0°♄10'59		direct	10655 Feb 13 19:49	14°♄26'19	
morning max el	10654 Mar 08 12:58	3°♄39'29	18°23'59	morning max el	10655 Feb 20 05:15	17°♄47'08	17°56'44
desc. node	10654 Mar 25 23:56	28°♄37'17			10655 Mar 01 06:17	0°♄	
	10654 Mar 26 20:45	0°♄		morning set	10655 Mar 09 19:50	14°♄01'38	
morning set	10654 Mar 28 14:05	2°♄44'18		desc. node	10655 Mar 12 20:40	19°♄02'50	
					10655 Mar 19 13:44	0°♄	
superior conj	10654 Apr 13 08:29	27°♄35'14	-1°51'37	superior conj	10655 Mar 23 20:56	6°♄53'16	-1°15'58
minimum elong	10654 Apr 12 23:24	26°♄59'43	1°51'07	minimum elong	10655 Mar 23 12:45	6°♄20'45	1°14'59
max. Earth dist.	10654 Apr 13 23:59	28°♄35'47	1.45664 AU	max. Earth dist.	10655 Mar 27 19:34	13°♄07'24	1.45351 AU
	10654 Apr 14 21:32	0°♄			10655 Apr 07 16:12	0°♄	
evening rise	10654 Apr 29 05:23	22°♄26'54		evening rise	10655 Apr 08 22:17	1°♄55'43	
	10654 May 04 00:30	0°♄		greatest brilliancy	10655 Apr 23 07:12	23°♄40'26	-0.6m
greatest brilliancy	10654 May 09 03:04	7°♄58'37	-0.8m		10655 Apr 27 17:32	0°♄	
asc. node	10654 May 19 03:56	22°♄19'06		evening max el	10655 May 04 23:04	8°♄52'55	19°49'21
evening max el	10654 May 21 17:22	25°♄10'39	18°58'09	asc. node	10655 May 06 01:06	9°♄55'30	
retrograde	10654 May 28 12:09	28°♄56'19		retrograde	10655 May 12 10:13	13°♄08'50	
evening set	10654 May 31 21:54	27°♄49'10		evening set	10655 May 16 04:51	11°♄45'51	
inferior conj	10654 Jun 06 10:18	22°♄04'56	3°14'56	inferior conj	10655 May 21 13:05	5°♄47'38	3°17'01
minimum elong	10654 Jun 06 11:04	22°♄02'28	3°14'20	minimum elong	10655 May 21 12:43	5°♄48'52	3°16'32
min. Earth dist.	10654 Jun 08 02:15	19°♄58'21	0.66208 AU	min. Earth dist.	10655 May 22 14:20	4°♄22'59	0.67477 AU
morning rise	10654 Jun 11 23:37	15°♄43'50			10655 May 26 06:35	30°♄	
direct	10654 Jun 18 07:28	12°♄59'57		morning rise	10655 May 26 20:14	29°♄27'46	
desc. node	10654 Jun 22 00:13	13°♄47'03		direct	10655 Jun 01 17:25	26°♄51'05	
morning max el	10654 Jul 01 06:11	20°♄42'54	26°27'09	desc. node	10655 Jun 08 21:14	29°♄46'28	
	10654 Jul 09 06:12	0°♄			10655 Jun 09 04:28	0°♄	
	10654 Jul 29 05:03	0°♄		morning max el	10655 Jun 13 16:04	4°♄01'00	25°08'39
morning set	10654 Aug 06 04:49	14°♄18'40			10655 Jul 03 13:17	0°♄	
max. Earth dist.	10654 Aug 10 04:44	21°♄59'42	1.34644 AU	morning set	10655 Jul 19 15:55	26°♄30'50	
	10654 Aug 14 04:26	0°♄			10655 Jul 21 14:14	0°♄	
superior conj	10654 Aug 15 03:47	1°♄59'51	0°00'05	max. Earth dist.	10655 Jul 23 06:19	3°♄04'27	1.36624 AU
minimum elong	10654 Aug 15 03:48	1°♄59'54	0°00'13	superior conj	10655 Jul 29 16:17	15°♄22'23	-0°31'56
behind sun begin	10654 Aug 14 21:56	1°♄29'42		minimum elong	10655 Jul 29 18:19	15°♄32'25	0°31'58
behind sun end	10654 Aug 15 09:39	2°♄30'09		asc. node	10655 Aug 02 00:25	22°♄02'32	
asc. node	10654 Aug 15 03:35	1°♄58'46			10655 Aug 05 22:35	0°♄	
evening rise	10654 Aug 22 16:55	17°♄46'34		evening rise	10655 Aug 06 21:55	1°♄58'07	
	10654 Aug 28 19:21	0°♄			10655 Aug 23 21:54	0°♄	
evening max el	10654 Sep 10 18:00	19°♄04'59	20°55'06	evening max el	10655 Aug 24 03:18	0°♄13'33	19°41'06
desc. node	10654 Sep 17 22:13	24°♄00'57		retrograde	10655 Sep 03 01:41	5°♄09'28	
retrograde	10654 Sep 22 09:09	24°♄51'08		evening set	10655 Sep 04 22:20	4°♄59'51	
evening set	10654 Sep 24 16:10	24°♄38'37		desc. node	10655 Sep 04 19:30	5°♄01'01	
inferior conj	10654 Oct 03 19:25	20°♄43'19	-4°30'33	inferior conj	10655 Sep 13 18:39	0°♄56'48	-2°45'16
minimum elong	10654 Oct 03 09:32	20°♄57'20	4°27'46	minimum elong	10655 Sep 13 11:18	1°♄08'17	2°42'37
min. Earth dist.	10654 Oct 04 13:11	20°♄18'04	0.54628 AU		10655 Sep 15 06:59	30°♄	
morning rise	10654 Oct 12 03:03	16°♄48'06		min. Earth dist.	10655 Sep 15 23:35	29°♄34'23	0.55328 AU
direct	10654 Oct 16 04:06	16°♄12'57		morning rise	10655 Sep 21 22:18	26°♄34'38	
morning max el	10654 Oct 29 04:30	22°♄28'22	22°59'50	direct	10655 Sep 26 19:01	25°♄42'18	
	10654 Nov 04 18:13	0°♄			10655 Oct 07 14:51	0°♄	
asc. node	10654 Nov 11 04:10	9°♄50'50		morning max el	10655 Oct 10 15:40	2°♄36'05	24°46'53
morning set	10654 Nov 21 00:12	28°♄59'23		asc. node	10655 Oct 29 01:03	28°♄44'52	
	10654 Nov 21 11:36	0°♄			10655 Oct 29 17:03	0°♄	
superior conj	10654 Nov 27 23:23	13°♄58'41	1°38'56	morning set	10655 Nov 05 12:00	13°♄45'57	

superior conj	10655 Nov 12 07:58	28° \mathbb{M} 41'33	1°39'06	superior conj	10656 Oct 26 19:04	13° \mathbb{M} 28'37	1°33'20
minimum elong	10655 Nov 12 07:25	28° \mathbb{M} 38'33	1°39'31	minimum elong	10656 Oct 26 17:36	13° \mathbb{M} 20'25	1°33'33
	10655 Nov 12 22:18	0° \mathbb{A}		max. Earth dist.	10656 Oct 27 11:24	14° \mathbb{M} 59'14	1.31678 AU
max. Earth dist.	10655 Nov 14 04:07	2° \mathbb{A} 42'34	1.32404 AU	evening rise	10656 Nov 02 17:12	28° \mathbb{M} 32'54	
evening rise	10655 Nov 19 14:47	14° \mathbb{A} 13'34			10656 Nov 03 09:51	0° \mathbb{A}	
	10655 Nov 27 19:41	0° \mathbb{B}		desc. node	10656 Nov 17 14:29	26° \mathbb{A} 11'04	
desc. node	10655 Dec 01 17:22	6° \mathbb{B} 46'13			10656 Nov 20 01:26	0° \mathbb{B}	
	10655 Dec 18 01:43	0° \mathbb{C}		evening max el	10656 Dec 04 02:58	17° \mathbb{B} 29'10	27°14'37
evening max el	10655 Dec 22 19:49	5° \mathbb{C} 00'07	27°31'05	retrograde	10656 Dec 18 00:15	24° \mathbb{B} 42'08	
retrograde	10656 Jan 05 14:09	12° \mathbb{C} 19'41		evening set	10656 Dec 24 23:38	22° \mathbb{B} 31'30	
evening set	10656 Jan 12 14:00	9° \mathbb{C} 53'21		min. Earth dist.	10656 Dec 28 17:28	19° \mathbb{B} 46'02	0.61045 AU
min. Earth dist.	10656 Jan 16 07:54	6° \mathbb{C} 45'02	0.63091 AU	inferior conj	10656 Dec 31 19:53	17° \mathbb{B} 04'42	-3°12'21
inferior conj	10656 Jan 19 02:23	4° \mathbb{C} 01'26	-1°56'52	minimum elong	10657 Jan 01 02:20	16° \mathbb{B} 50'40	3°09'30
minimum elong	10656 Jan 19 06:13	3° \mathbb{C} 52'00	1°54'49	morning rise	10657 Jan 08 07:38	12° \mathbb{B} 10'54	
	10656 Jan 23 17:40	30° \mathbb{R} \mathbb{B}		direct	10657 Jan 10 11:26	11° \mathbb{B} 51'45	
asc. node	10656 Jan 25 00:24	29° \mathbb{B} 14'42		asc. node	10657 Jan 10 21:32	11° \mathbb{B} 52'30	
morning rise	10656 Jan 26 00:38	28° \mathbb{B} 48'19		morning max el	10657 Jan 17 14:28	15° \mathbb{B} 26'31	17°55'26
direct	10656 Jan 28 08:35	28° \mathbb{B} 22'34			10657 Jan 27 16:38	0° \mathbb{C}	
	10656 Feb 01 20:59	0° \mathbb{C}		morning set	10657 Feb 02 05:25	9° \mathbb{C} 57'36	
morning max el	10656 Feb 03 22:50	1° \mathbb{C} 45'38	17°46'55				
morning set	10656 Feb 20 03:04	26° \mathbb{C} 32'41		superior conj	10657 Feb 12 16:07	28° \mathbb{C} 42'26	0°07'02
	10656 Feb 22 02:48	0° \mathbb{H}		minimum elong	10657 Feb 12 16:44	28° \mathbb{C} 45'09	0°07'15
desc. node	10656 Feb 27 17:23	9° \mathbb{H} 37'32		behind sun begin	10657 Feb 12 09:22	28° \mathbb{C} 13'03	
				behind sun end	10657 Feb 13 00:07	29° \mathbb{C} 17'11	
superior conj	10656 Mar 03 05:56	17° \mathbb{H} 11'48	-0°33'34		10657 Feb 13 10:00	0° \mathbb{H}	
minimum elong	10656 Mar 03 02:28	16° \mathbb{H} 57'28	0°32'52	desc. node	10657 Feb 13 14:09	0° \mathbb{H} 17'56	
max. Earth dist.	10656 Mar 09 13:47	27° \mathbb{H} 28'55	1.44332 AU	max. Earth dist.	10657 Feb 20 04:04	11° \mathbb{H} 23'38	1.42715 AU
	10656 Mar 11 03:43	0° \mathbb{Y}		evening rise	10657 Feb 26 07:08	21° \mathbb{H} 16'15	
evening rise	10656 Mar 18 09:49	11° \mathbb{Y} 19'57			10657 Mar 03 22:08	0° \mathbb{Y}	
	10656 Mar 30 19:47	0° \mathbb{B}			10657 Mar 25 03:58	0° \mathbb{B}	
evening max el	10656 Apr 16 23:07	22° \mathbb{B} 36'05	20°54'23	evening max el	10657 Mar 30 17:53	6° \mathbb{B} 20'25	22°09'29
asc. node	10656 Apr 21 22:17	26° \mathbb{B} 33'14		asc. node	10657 Apr 08 19:31	11° \mathbb{B} 57'10	
retrograde	10656 Apr 25 08:52	27° \mathbb{B} 30'50		retrograde	10657 Apr 09 06:23	11° \mathbb{B} 58'10	
evening set	10656 Apr 29 13:16	25° \mathbb{B} 51'59		evening set	10657 Apr 13 21:28	10° \mathbb{B} 03'58	
inferior conj	10656 May 04 19:57	19° \mathbb{B} 41'22	3°07'08	inferior conj	10657 Apr 19 04:50	3° \mathbb{B} 43'20	2°46'49
minimum elong	10656 May 04 18:39	19° \mathbb{B} 45'53	3°06'36	minimum elong	10657 Apr 19 02:54	3° \mathbb{B} 50'05	2°46'09
min. Earth dist.	10656 May 05 07:22	19° \mathbb{B} 01'51	0.68288 AU	min. Earth dist.	10657 Apr 19 03:22	3° \mathbb{B} 48'24	0.68642 AU
morning rise	10656 May 09 23:49	13° \mathbb{B} 25'04			10657 Apr 21 23:46	30° \mathbb{R} \mathbb{Y}	
direct	10656 May 15 08:14	11° \mathbb{B} 03'26		morning rise	10657 Apr 24 08:10	27° \mathbb{Y} 31'57	
desc. node	10656 May 25 18:10	17° \mathbb{B} 08'34		direct	10657 Apr 29 03:02	25° \mathbb{Y} 30'05	
morning max el	10656 May 26 01:38	17° \mathbb{B} 27'18	23°40'07		10657 May 07 11:52	0° \mathbb{B}	
	10656 Jun 05 12:15	0° \mathbb{I}		morning max el	10657 May 08 13:31	1° \mathbb{B} 02'11	22°11'08
	10656 Jun 25 14:33	0° \mathbb{D}		desc. node	10657 May 12 15:02	5° \mathbb{B} 31'20	
morning set	10656 Jun 30 05:56	7° \mathbb{D} 43'04			10657 May 30 08:42	0° \mathbb{I}	
max. Earth dist.	10656 Jul 04 03:29	14° \mathbb{D} 26'58	1.38875 AU	morning set	10657 Jun 10 18:23	17° \mathbb{I} 45'16	
				max. Earth dist.	10657 Jun 16 02:36	26° \mathbb{I} 32'55	1.41142 AU
superior conj	10656 Jul 11 15:26	28° \mathbb{D} 04'51	-1°05'19		10657 Jun 18 03:36	0° \mathbb{D}	
minimum elong	10656 Jul 11 19:51	28° \mathbb{D} 25'32	1°05'07				
	10656 Jul 12 15:53	0° \mathbb{Q}		superior conj	10657 Jun 23 20:56	9° \mathbb{D} 57'25	-1°36'51
asc. node	10656 Jul 18 21:16	11° \mathbb{Q} 59'50		minimum elong	10657 Jun 24 03:11	10° \mathbb{D} 25'15	1°36'39
evening rise	10656 Jul 20 19:50	15° \mathbb{Q} 46'55		evening rise	10657 Jul 04 07:15	29° \mathbb{D} 04'14	
	10656 Jul 28 10:01	0° \mathbb{P}			10657 Jul 04 19:13	0° \mathbb{Q}	
evening max el	10656 Aug 06 01:13	12° \mathbb{P} 07'32	18°48'19	asc. node	10657 Jul 05 18:10	1° \mathbb{Q} 46'45	
retrograde	10656 Aug 14 10:29	16° \mathbb{P} 18'50		evening max el	10657 Jul 20 08:17	24° \mathbb{Q} 40'33	18°16'29
evening set	10656 Aug 16 08:58	16° \mathbb{P} 06'15		retrograde	10657 Jul 27 14:27	28° \mathbb{Q} 20'18	
desc. node	10656 Aug 21 16:47	13° \mathbb{P} 42'06		evening set	10657 Jul 29 19:39	28° \mathbb{Q} 00'30	
inferior conj	10656 Aug 24 12:09	11° \mathbb{P} 45'31	-0°52'20	inferior conj	10657 Aug 06 03:30	23° \mathbb{Q} 19'25	0°43'46
minimum elong	10656 Aug 24 09:58	11° \mathbb{P} 49'28	0°51'41	minimum elong	10657 Aug 06 04:57	23° \mathbb{Q} 16'21	0°42'53
min. Earth dist.	10656 Aug 27 14:25	9° \mathbb{P} 31'43	0.56844 AU	desc. node	10657 Aug 08 14:01	21° \mathbb{Q} 14'53	
morning rise	10656 Sep 01 07:40	6° \mathbb{P} 45'59		min. Earth dist.	10657 Aug 09 12:02	20° \mathbb{Q} 29'40	0.58897 AU
direct	10656 Sep 06 23:04	5° \mathbb{P} 29'08		morning rise	10657 Aug 13 10:51	17° \mathbb{Q} 45'03	
morning max el	10656 Sep 21 05:35	12° \mathbb{P} 53'16	26°21'20	direct	10657 Aug 19 17:17	15° \mathbb{Q} 58'41	
	10656 Oct 04 16:03	0° \mathbb{U}		morning max el	10657 Sep 03 02:17	23° \mathbb{Q} 45'11	27°27'18
asc. node	10656 Oct 14 21:52	18° \mathbb{U} 05'26			10657 Sep 08 17:45	0° \mathbb{P}	
morning set	10656 Oct 19 22:38	28° \mathbb{U} 26'02			10657 Sep 27 20:09	0° \mathbb{U}	
	10656 Oct 20 16:10	0° \mathbb{M}		asc. node	10657 Oct 01 18:40	7° \mathbb{U} 45'26	
				morning set	10657 Oct 04 06:24	12° \mathbb{U} 55'03	

superior conj	10657 Oct 11 06:49	28°♄14'23	1°21'59			10658 Sep 19 18:29	0°♄	
minimum elong	10657 Oct 11 04:44	28°♄02'50	1°21'56	max. Earth dist.		10658 Sep 24 04:32	9°♄30'31	1.31683 AU
max. Earth dist.	10657 Oct 10 20:46	27°♄18'27	1.31436 AU					
	10657 Oct 12 01:47	0°♄		superior conj		10658 Sep 25 17:24	12°♄53'23	1°05'19
evening rise	10657 Oct 18 00:39	13°♄04'06		minimum elong		10658 Sep 25 15:10	12°♄41'02	1°05'02
	10657 Oct 26 11:56	0°♄		evening rise		10658 Oct 02 11:05	27°♄41'35	
desc. node	10657 Nov 04 11:39	14°♄55'14				10658 Oct 03 12:59	0°♄	
evening max el	10657 Nov 16 03:03	29°♄08'39	26°23'55			10658 Oct 20 08:27	0°♄	
	10657 Nov 17 01:21	0°♄		desc. node		10658 Oct 22 08:52	2°♄43'05	
retrograde	10657 Nov 30 01:21	6°♄14'36		evening max el		10658 Oct 28 19:07	9°♄58'14	25°03'20
evening set	10657 Dec 06 15:01	4°♄29'19		retrograde		10658 Nov 11 15:30	16°♄55'34	
min. Earth dist.	10657 Dec 10 16:29	1°♄54'11	0.58921 AU	evening set		10658 Nov 17 07:35	15°♄42'58	
	10657 Dec 13 05:05	30°♄		min. Earth dist.		10658 Nov 22 06:59	13°♄00'42	0.56956 AU
inferior conj	10657 Dec 13 20:24	29°♄30'48	-4°25'44	inferior conj		10658 Nov 25 01:09	11°♄11'52	-5°23'42
minimum elong	10657 Dec 14 04:25	29°♄15'36	4°22'59	minimum elong		10658 Nov 25 07:24	11°♄01'33	5°22'16
morning rise	10657 Dec 21 20:29	24°♄58'59		morning rise		10658 Dec 03 09:29	7°♄02'04	
direct	10657 Dec 23 24:00	24°♄43'05		direct		10658 Dec 05 18:27	6°♄45'53	
asc. node	10657 Dec 28 18:38	26°♄06'44		morning max el		10658 Dec 15 01:01	11°♄12'54	19°13'21
morning max el	10658 Jan 01 00:29	28°♄39'11	18°23'39	asc. node		10658 Dec 15 15:41	11°♄49'14	
	10658 Jan 02 07:25	0°♄				10658 Dec 27 14:36	0°♄	
morning set	10658 Jan 16 21:06	23°♄58'37		morning set		10658 Dec 31 21:52	8°♄23'29	
	10658 Jan 20 00:40	0°♄						
superior conj	10658 Jan 26 00:38	11°♄15'28	0°41'09	superior conj		10659 Jan 09 02:39	24°♄37'10	1°07'16
minimum elong	10658 Jan 26 03:19	11°♄27'50	0°41'11	minimum elong		10659 Jan 09 05:42	24°♄51'56	1°07'23
desc. node	10658 Jan 31 10:57	20°♄59'48				10659 Jan 11 22:14	0°♄	
max. Earth dist.	10658 Feb 02 13:10	24°♄37'18	1.40684 AU	max. Earth dist.		10659 Jan 15 19:11	7°♄09'13	1.38484 AU
	10658 Feb 05 17:30	0°♄		desc. node		10659 Jan 18 07:49	11°♄39'41	
evening rise	10658 Feb 06 23:38	2°♄04'54		evening rise		10659 Jan 19 13:41	13°♄50'10	
	10658 Feb 25 06:21	0°♄				10659 Jan 29 09:10	0°♄	
evening max el	10658 Mar 13 08:59	20°♄07'01	23°29'40	evening max el		10659 Feb 20 05:25	0°♄	
retrograde	10658 Mar 24 01:20	26°♄25'20				10659 Feb 23 22:36	3°♄56'47	24°48'35
asc. node	10658 Mar 26 16:45	25°♄52'05		retrograde		10659 Mar 07 16:23	10°♄47'15	
evening set	10658 Mar 29 03:54	24°♄17'07		evening set		10659 Mar 13 07:02	8°♄26'58	
min. Earth dist.	10658 Apr 03 00:08	18°♄36'31	0.68552 AU	asc. node		10659 Mar 13 14:01	8°♄11'45	
inferior conj	10658 Apr 03 13:46	17°♄49'42	2°16'51	min. Earth dist.		10659 Mar 17 19:27	3°♄21'25	0.68038 AU
minimum elong	10658 Apr 03 11:35	17°♄57'13	2°16'07	inferior conj		10659 Mar 18 20:56	1°♄57'05	1°37'34
morning rise	10658 Apr 08 19:14	11°♄44'28		minimum elong		10659 Mar 18 18:57	2°♄03'38	1°36'54
direct	10658 Apr 13 00:46	10°♄04'13				10659 Mar 20 08:56	30°♄	
morning max el	10658 Apr 21 06:51	14°♄47'30	20°49'31	morning rise		10659 Mar 24 07:05	25°♄59'26	
desc. node	10658 Apr 29 11:53	24°♄37'56		direct		10659 Mar 28 00:06	24°♄40'25	
	10658 May 03 09:18	0°♄		morning max el		10659 Apr 04 07:46	28°♄44'35	19°40'38
morning set	10658 May 21 05:37	26°♄40'27				10659 Apr 05 12:56	0°♄	
	10658 May 23 08:36	0°♄		desc. node		10659 Apr 16 08:41	14°♄16'34	
max. Earth dist.	10658 May 29 07:41	9°♄30'56	1.43147 AU	greatest brilliancy		10659 Apr 17 01:53	15°♄19'24	-0.6m
						10659 Apr 26 20:19	0°♄	
superior conj	10658 Jun 05 04:22	20°♄50'50	-2°01'34	morning set		10659 Apr 30 04:35	5°♄07'41	
minimum elong	10658 Jun 05 10:08	21°♄15'05	2°01'42	max. Earth dist.		10659 May 11 19:52	23°♄16'41	1.44662 AU
	10658 Jun 10 12:51	0°♄						
evening rise	10658 Jun 17 03:46	11°♄39'05		superior conj		10659 May 16 11:37	0°♄42'40	-2°12'56
asc. node	10658 Jun 22 15:09	21°♄18'25		minimum elong		10659 May 16 12:31	0°♄46'20	2°13'23
	10658 Jun 27 21:23	0°♄				10659 May 16 01:00	0°♄	
evening max el	10658 Jul 03 20:33	7°♄42'59	18°04'29	evening rise		10659 May 30 04:32	23°♄20'40	
retrograde	10658 Jul 10 10:45	11°♄06'06				10659 Jun 03 03:10	0°♄	
evening set	10658 Jul 12 23:53	10°♄35'35		asc. node		10659 Jun 09 12:11	10°♄28'49	
inferior conj	10658 Jul 19 14:41	5°♄34'51	1°54'35	evening max el		10659 Jun 17 10:25	21°♄05'21	18°11'14
minimum elong	10658 Jul 19 17:25	5°♄28'08	1°53'18	retrograde		10659 Jun 23 19:05	24°♄26'27	
min. Earth dist.	10658 Jul 22 17:59	2°♄31'39	0.61163 AU	evening set		10659 Jun 26 16:12	23°♄42'41	
	10658 Jul 25 18:29	30°♄		inferior conj		10659 Jul 02 17:44	18°♄23'42	2°41'07
morning rise	10658 Jul 26 08:23	29°♄35'49		minimum elong		10659 Jul 02 20:12	18°♄16'54	2°40'03
desc. node	10658 Jul 26 11:14	29°♄31'04		min. Earth dist.		10659 Jul 05 09:00	15°♄29'47	0.63364 AU
direct	10658 Aug 01 23:40	27°♄21'34		morning rise		10659 Jul 08 22:36	12°♄10'23	
	10658 Aug 09 18:14	0°♄		desc. node		10659 Jul 13 08:27	9°♄53'46	
morning max el	10658 Aug 16 05:46	5°♄21'20	27°56'08	direct		10659 Jul 15 15:37	9°♄36'13	
	10658 Sep 03 16:56	0°♄		morning max el		10659 Jul 29 13:59	17°♄38'47	27°46'47
morning set	10658 Sep 18 09:27	27°♄07'52				10659 Aug 08 21:27	0°♄	
asc. node	10658 Sep 18 15:28	27°♄38'58		morning set		10659 Aug 27 13:07	0°♄	
						10659 Sep 02 05:27	10°♄57'09	

asc. node	10659 Sep 05 12:15	17° \mathbb{M} 40'15			10660 Aug 18 13:41	0° \mathbb{M}	
max. Earth dist.	10659 Sep 07 06:45	21° \mathbb{M} 24'00	1.32438 AU	max. Earth dist.	10660 Aug 20 00:17	2° \mathbb{M} 54'06	1.33705 AU
				asc. node	10660 Aug 22 09:04	7° \mathbb{M} 45'37	
superior conj	10659 Sep 10 00:50	27° \mathbb{M} 18'46	0°43'34	superior conj	10660 Aug 24 03:02	11° \mathbb{M} 25'04	0°17'10
minimum elong	10659 Sep 09 22:59	27° \mathbb{M} 08'39	0°43'09	minimum elong	10660 Aug 24 02:10	11° \mathbb{M} 20'30	0°16'46
	10659 Sep 11 06:31	0° $\underline{\mathbb{A}}$		evening rise	10660 Aug 31 09:09	26° \mathbb{M} 50'35	
evening rise	10659 Sep 16 22:31	12° $\underline{\mathbb{A}}$ 18'40			10660 Sep 01 21:20	0° $\underline{\mathbb{A}}$	
	10659 Sep 25 19:33	0° \mathbb{M}			10660 Sep 20 11:07	0° \mathbb{M}	
desc. node	10659 Oct 09 06:08	19° \mathbb{M} 11'58		evening max el	10660 Sep 20 19:46	0° \mathbb{M} 21'33	21°46'09
evening max el	10659 Oct 10 05:59	20° \mathbb{M} 11'33	23°25'02	desc. node	10660 Sep 25 03:25	3° \mathbb{M} 54'04	
retrograde	10659 Oct 23 16:29	26° \mathbb{M} 53'28		retrograde	10660 Oct 03 06:40	6° \mathbb{M} 33'14	
evening set	10659 Oct 28 00:05	26° \mathbb{M} 12'58		evening set	10660 Oct 06 04:11	6° \mathbb{M} 14'19	
min. Earth dist.	10659 Nov 03 15:52	23° \mathbb{M} 05'20	0.55440 AU	inferior conj	10660 Oct 15 04:20	2° \mathbb{M} 17'04	-5°14'24
inferior conj	10659 Nov 05 09:52	22° \mathbb{M} 03'46	-5°46'15	minimum elong	10660 Oct 14 20:13	2° \mathbb{M} 28'24	5°12'42
minimum elong	10659 Nov 05 09:25	22° \mathbb{M} 04'25	5°45'50	min. Earth dist.	10660 Oct 14 22:48	2° \mathbb{M} 24'47	0.54662 AU
morning rise	10659 Nov 13 20:33	18° \mathbb{M} 11'32			10660 Oct 19 11:56	30° \mathbb{R} $\underline{\mathbb{A}}$	
direct	10659 Nov 16 17:59	17° \mathbb{M} 51'12		morning rise	10660 Oct 23 13:30	28° $\underline{\mathbb{A}}$ 29'20	
morning max el	10659 Nov 27 12:37	22° \mathbb{M} 57'07	20°25'55	direct	10660 Oct 27 03:59	28° $\underline{\mathbb{A}}$ 01'01	
asc. node	10659 Dec 02 12:42	28° \mathbb{M} 43'53			10660 Nov 03 07:36	0° \mathbb{M}	
	10659 Dec 03 10:34	0° \mathbb{X}		morning max el	10660 Nov 08 10:44	3° \mathbb{M} 50'28	21°59'35
morning set	10659 Dec 16 04:34	23° \mathbb{X} 02'45		asc. node	10660 Nov 18 09:39	16° \mathbb{M} 34'57	
	10659 Dec 19 13:21	0° \mathbb{Z}			10660 Nov 25 19:17	0° \mathbb{X}	
superior conj	10659 Dec 23 17:33	8° \mathbb{Z} 34'10	1°25'21	morning set	10660 Nov 29 14:44	7° \mathbb{X} 49'19	
minimum elong	10659 Dec 23 19:57	8° \mathbb{Z} 46'21	1°25'40	superior conj	10660 Dec 06 17:34	22° \mathbb{X} 55'55	1°35'58
max. Earth dist.	10659 Dec 29 02:44	19° \mathbb{Z} 12'14	1.36352 AU	minimum elong	10660 Dec 06 18:52	23° \mathbb{X} 02'44	1°36'25
evening rise	10660 Jan 01 23:06	26° \mathbb{Z} 25'11			10660 Dec 10 03:17	0° \mathbb{Z}	
	10660 Jan 03 22:37	0° \approx		max. Earth dist.	10660 Dec 10 16:10	1° \mathbb{Z} 05'35	1.34487 AU
desc. node	10660 Jan 05 04:44	2° \approx 13'24		evening rise	10660 Dec 15 00:18	9° \mathbb{Z} 40'40	
	10660 Jan 22 20:14	0° \mathbb{X}		desc. node	10660 Dec 22 01:40	22° \mathbb{Z} 36'22	
evening max el	10660 Feb 06 12:07	17° \mathbb{X} 46'31	25°59'05		10660 Dec 26 10:53	0° \approx	
retrograde	10660 Feb 19 02:34	24° \mathbb{X} 57'51			10661 Jan 17 14:09	0° \mathbb{X}	
evening set	10660 Feb 25 05:12	22° \mathbb{X} 28'32		evening max el	10661 Jan 19 01:39	1° \mathbb{X} 28'17	26°53'49
asc. node	10660 Feb 28 11:17	19° \mathbb{X} 09'33		retrograde	10661 Feb 01 07:04	8° \mathbb{X} 49'48	
min. Earth dist.	10660 Feb 29 11:02	17° \mathbb{X} 57'54	0.67117 AU	evening set	10661 Feb 07 20:30	6° \mathbb{X} 15'57	
inferior conj	10660 Mar 02 00:20	16° \mathbb{X} 01'21	0°48'59	min. Earth dist.	10661 Feb 11 20:34	2° \mathbb{X} 19'33	0.65816 AU
minimum elong	10660 Mar 01 23:09	16° \mathbb{X} 05'05	0°48'41	inferior conj	10661 Feb 13 21:49	29° \approx 57'17	-0°08'50
morning rise	10660 Mar 07 17:43	10° \mathbb{X} 13'08		minimum elong	10661 Feb 13 22:03	29° \approx 56'36	0°08'25
direct	10660 Mar 10 23:24	9° \mathbb{X} 13'22		transit middle	10661 Feb 13 22:03	29° \approx 56'36	0°08'25
morning max el	10660 Mar 17 16:14	12° \mathbb{X} 50'59	18°47'14	transit begin	10661 Feb 13 19:31	0° \mathbb{X} 03'55	
	10660 Mar 30 10:10	0° \mathbb{Y}		transit end	10661 Feb 14 00:34	29° \approx 49'18	
desc. node	10660 Apr 02 05:27	4° \mathbb{Y} 18'34			10661 Feb 13 20:52	30° \mathbb{R} \approx	
morning set	10660 Apr 08 14:39	14° \mathbb{Y} 14'29		asc. node	10661 Feb 14 08:33	29° \approx 26'18	
	10660 Apr 18 16:57	0° \mathbb{Z}		morning rise	10661 Feb 20 00:49	24° \approx 20'45	
max. Earth dist.	10660 Apr 23 13:34	7° \mathbb{Z} 35'52	1.45513 AU	direct	10661 Feb 22 20:35	23° \approx 37'10	
superior conj	10660 Apr 24 23:19	9° \mathbb{Z} 48'07	-2°05'13	morning max el	10661 Mar 01 06:28	27° \approx 00'41	18°10'19
minimum elong	10660 Apr 24 16:51	9° \mathbb{Z} 22'45	2°05'13		10661 Mar 03 22:48	0° \mathbb{X}	
	10660 May 07 17:13	0° \mathbb{I}		morning set	10661 Mar 20 03:34	24° \mathbb{X} 42'39	
evening rise	10660 May 10 05:49	4° \mathbb{I} 03'19		desc. node	10661 Mar 20 02:11	24° \mathbb{X} 37'01	
greatest brilliancy	10660 May 16 11:32	14° \mathbb{I} 05'44	-0.9m		10661 Mar 23 10:16	0° \mathbb{Y}	
asc. node	10660 May 26 09:17	29° \mathbb{I} 11'02		superior conj	10661 Apr 04 06:02	18° \mathbb{Y} 46'57	-1°37'58
	10660 May 26 23:50	0° \mathbb{E}		minimum elong	10661 Apr 03 20:32	18° \mathbb{Y} 09'42	1°37'09
evening max el	10660 May 30 22:52	4° \mathbb{E} 40'14	18°36'01	max. Earth dist.	10661 Apr 06 09:34	22° \mathbb{Y} 08'55	1.45623 AU
retrograde	10660 Jun 06 11:25	8° \mathbb{E} 13'11			10661 Apr 11 10:16	0° \mathbb{Z}	
evening set	10660 Jun 09 16:31	7° \mathbb{E} 14'40		evening rise	10661 Apr 20 08:21	13° \mathbb{Z} 52'29	
inferior conj	10660 Jun 15 08:40	1° \mathbb{E} 39'01	3°07'22		10661 Apr 30 18:51	0° \mathbb{I}	
minimum elong	10660 Jun 15 10:08	1° \mathbb{E} 34'35	3°06'38	greatest brilliancy	10661 May 02 07:40	2° \mathbb{I} 19'32	-0.7m
	10660 Jun 16 17:10	30° \mathbb{R} \mathbb{I}		asc. node	10661 May 13 06:27	17° \mathbb{I} 14'47	
min. Earth dist.	10660 Jun 17 09:11	29° \mathbb{I} 11'58	0.65284 AU	evening max el	10661 May 14 07:26	18° \mathbb{I} 20'34	19°17'59
morning rise	10660 Jun 21 02:54	25° \mathbb{I} 19'15		retrograde	10661 May 21 08:16	22° \mathbb{I} 17'58	
direct	10660 Jun 27 15:23	22° \mathbb{I} 36'02		evening set	10661 May 24 21:44	21° \mathbb{I} 03'59	
desc. node	10660 Jun 29 05:34	22° \mathbb{I} 44'42		inferior conj	10661 May 30 07:58	15° \mathbb{I} 13'19	3°17'23
	10660 Jul 10 12:44	0° \mathbb{E}		minimum elong	10661 May 30 08:15	15° \mathbb{I} 12'25	3°16'51
morning max el	10660 Jul 11 00:33	0° \mathbb{E} 29'34	27°03'55	min. Earth dist.	10661 May 31 17:28	13° \mathbb{I} 24'14	0.66804 AU
	10660 Aug 01 21:50	0° \mathbb{Q}		morning rise	10661 Jun 04 18:19	8° \mathbb{I} 52'20	
morning set	10660 Aug 15 15:39	24° \mathbb{Q} 16'23					

direct	10661 Jun 10 21:49	6° Π 10'45		morning rise	10662 May 19 18:11	22° \mathcal{B} 42'43	
desc. node	10661 Jun 16 02:36	7° Π 43'39		direct	10662 May 25 10:00	20° \mathcal{B} 11'42	
morning max el	10661 Jun 23 11:14	13° Π 41'23	25°55'37	desc. node	10662 Jun 02 23:35	24° \mathcal{B} 21'23	
	10661 Jul 06 16:38	0° \mathcal{E}		morning max el	10662 Jun 05 20:57	27° \mathcal{B} 04'03	24°31'30
	10661 Jul 25 15:57	0° Ω			10662 Jun 08 14:34	0° Π	
morning set	10661 Jul 29 12:26	6° Ω 56'13			10662 Jun 30 07:32	0° \mathcal{E}	
max. Earth dist.	10661 Aug 02 07:22	14° Ω 03'38	1.35446 AU	morning set	10662 Jul 11 15:13	18° \mathcal{E} 44'48	
				max. Earth dist.	10662 Jul 15 06:01	25° \mathcal{E} 11'05	1.37561 AU
					10662 Jul 17 20:57	0° Ω	
superior conj	10661 Aug 07 21:23	25° Ω 05'24	-0°13'12				
minimum elong	10661 Aug 07 22:11	25° Ω 09'28	0°13'24	superior conj	10662 Jul 22 04:39	8° Ω 11'47	-0°46'07
behind sun begin	10661 Aug 07 18:46	24° Ω 52'09		minimum elong	10662 Jul 22 07:40	8° Ω 26'27	0°46'02
behind sun end	10661 Aug 08 01:36	25° Ω 26'47		asc. node	10662 Jul 27 02:45	17° Ω 52'26	
asc. node	10661 Aug 09 05:54	27° Ω 50'57		evening rise	10662 Jul 30 19:12	25° Ω 14'00	
	10661 Aug 10 07:03	0° \mathcal{M}			10662 Aug 02 05:03	0° \mathcal{M}	
evening rise	10661 Aug 15 16:52	11° \mathcal{M} 11'16		evening max el	10662 Aug 16 11:51	22° \mathcal{M} 31'30	19°16'02
	10661 Aug 25 14:19	0° \mathcal{L}		retrograde	10662 Aug 25 17:44	27° \mathcal{M} 07'15	
evening max el	10661 Sep 02 20:51	11° \mathcal{L} 03'06	20°20'59	evening set	10662 Aug 27 13:55	26° \mathcal{M} 57'05	
desc. node	10661 Sep 12 00:41	16° \mathcal{L} 20'25		desc. node	10662 Aug 29 21:59	26° \mathcal{M} 17'06	
retrograde	10661 Sep 13 19:10	16° \mathcal{L} 28'41		inferior conj	10662 Sep 05 03:43	22° \mathcal{M} 47'33	-1°56'27
evening set	10661 Sep 15 19:36	16° \mathcal{L} 18'23		minimum elong	10662 Sep 04 22:34	22° \mathcal{M} 56'06	1°54'33
inferior conj	10661 Sep 24 21:36	12° \mathcal{L} 20'58	-3°48'56	min. Earth dist.	10662 Sep 07 19:49	21° \mathcal{M} 01'40	0.55882 AU
minimum elong	10661 Sep 24 12:05	12° \mathcal{L} 34'54	3°45'51	morning rise	10662 Sep 13 04:24	18° \mathcal{M} 09'31	
min. Earth dist.	10661 Sep 26 07:25	11° \mathcal{L} 31'24	0.54809 AU	direct	10662 Sep 18 09:12	17° \mathcal{M} 07'29	
morning rise	10661 Oct 03 03:54	8° \mathcal{L} 16'23		morning max el	10662 Oct 02 11:31	24° \mathcal{M} 16'13	25°29'44
direct	10661 Oct 07 13:00	7° \mathcal{L} 35'04			10662 Oct 07 17:41	0° \mathcal{L}	
morning max el	10661 Oct 20 23:52	14° \mathcal{L} 07'42	23°45'59	asc. node	10662 Oct 23 03:22	24° \mathcal{L} 15'33	
	10661 Nov 02 06:12	0° \mathcal{M}			10662 Oct 26 01:13	0° \mathcal{M}	
asc. node	10661 Nov 05 06:32	5° \mathcal{M} 09'16		morning set	10662 Oct 29 13:54	7° \mathcal{M} 21'56	
morning set	10661 Nov 14 02:27	22° \mathcal{M} 37'39					
	10661 Nov 17 12:24	0° \mathcal{X}		superior conj	10662 Nov 05 09:39	22° \mathcal{M} 19'17	1°37'21
				minimum elong	10662 Nov 05 08:40	22° \mathcal{M} 13'54	1°37'43
superior conj	10661 Nov 20 23:45	7° \mathcal{X} 33'40	1°39'46	max. Earth dist.	10662 Nov 06 17:32	25° \mathcal{M} 14'54	1.32027 AU
minimum elong	10661 Nov 20 23:51	7° \mathcal{X} 34'12	1°40'15		10662 Nov 08 21:50	0° \mathcal{X}	
max. Earth dist.	10661 Nov 23 13:23	13° \mathcal{X} 04'47	1.33023 AU	evening rise	10662 Nov 12 12:10	7° \mathcal{X} 37'30	
evening rise	10661 Nov 28 13:44	23° \mathcal{X} 27'47			10662 Nov 24 08:49	0° \mathcal{Z}	
	10661 Dec 01 21:50	0° \mathcal{Z}		desc. node	10662 Nov 25 19:45	2° \mathcal{Z} 25'49	
desc. node	10661 Dec 08 22:40	12° \mathcal{Z} 43'08		evening max el	10662 Dec 15 00:04	27° \mathcal{Z} 44'17	27°28'19
	10661 Dec 20 02:19	0° \mathcal{A}			10662 Dec 17 13:32	0° \mathcal{A}	
evening max el	10662 Jan 01 14:13	14° \mathcal{A} 51'48	27°25'41	retrograde	10662 Dec 28 20:26	5° \mathcal{A} 02'11	
retrograde	10662 Jan 15 05:21	22° \mathcal{A} 14'50		evening set	10663 Jan 04 20:48	2° \mathcal{A} 41'20	
evening set	10662 Jan 22 02:41	19° \mathcal{A} 43'07			10663 Jan 08 06:45	30° \mathcal{R} 3	
min. Earth dist.	10662 Jan 25 22:08	16° \mathcal{A} 18'37	0.64166 AU	min. Earth dist.	10663 Jan 08 13:59	29° \mathcal{Z} 43'47	0.62233 AU
inferior conj	10662 Jan 28 10:50	13° \mathcal{A} 39'22	-1°15'16	inferior conj	10663 Jan 11 12:23	26° \mathcal{Z} 59'08	-2°28'37
minimum elong	10662 Jan 28 13:11	13° \mathcal{A} 33'10	1°13'51	minimum elong	10663 Jan 11 17:21	26° \mathcal{Z} 47'29	2°26'10
asc. node	10662 Feb 01 05:44	10° \mathcal{A} 01'49		morning rise	10663 Jan 18 16:23	21° \mathcal{Z} 53'56	
morning rise	10662 Feb 04 01:37	8° \mathcal{A} 17'05		asc. node	10663 Jan 19 02:53	21° \mathcal{Z} 46'07	
direct	10662 Feb 06 13:11	7° \mathcal{A} 46'01		direct	10663 Jan 20 22:02	21° \mathcal{Z} 31'33	
morning max el	10662 Feb 12 23:47	11° \mathcal{A} 06'31	17°50'27	morning max el	10663 Jan 27 16:57	24° \mathcal{Z} 58'50	17°48'15
	10662 Feb 25 23:35	0° \mathcal{H}			10663 Jan 31 20:34	0° \mathcal{A}	
morning set	10662 Mar 01 20:56	6° \mathcal{H} 34'09		morning set	10663 Feb 12 13:04	19° \mathcal{A} 30'23	
desc. node	10662 Mar 06 22:55	15° \mathcal{H} 07'25			10663 Feb 18 11:46	0° \mathcal{H}	
				desc. node	10663 Feb 21 19:39	5° \mathcal{H} 44'58	
superior conj	10662 Mar 15 02:08	28° \mathcal{H} 28'47	-0°58'14				
minimum elong	10662 Mar 14 19:49	28° \mathcal{H} 03'17	0°57'19	superior conj	10663 Feb 23 21:52	9° \mathcal{H} 18'19	-0°15'48
	10662 Mar 16 00:48	0° \mathcal{Y}		minimum elong	10663 Feb 23 20:21	9° \mathcal{H} 11'56	0°15'19
max. Earth dist.	10662 Mar 20 04:42	6° \mathcal{Y} 38'00	1.44998 AU	behind sun begin	10663 Feb 23 17:45	9° \mathcal{H} 00'57	
evening rise	10662 Mar 30 21:04	23° \mathcal{Y} 14'44		behind sun end	10663 Feb 23 22:57	9° \mathcal{H} 22'54	
	10662 Apr 04 07:20	0° \mathcal{B}		max. Earth dist.	10663 Mar 02 20:51	20° \mathcal{H} 47'47	1.43706 AU
	10662 Apr 25 13:01	0° Π			10663 Mar 08 15:45	0° \mathcal{Y}	
evening max el	10662 Apr 27 10:39	2° Π 03'03	20°15'24	evening rise	10663 Mar 10 11:05	2° \mathcal{Y} 48'48	
asc. node	10662 Apr 30 03:37	4° Π 28'09			10663 Mar 28 18:49	0° \mathcal{B}	
retrograde	10662 May 05 06:56	6° Π 35'11		evening max el	10663 Apr 10 08:21	15° \mathcal{B} 47'02	21°25'23
evening set	10662 May 09 05:32	5° Π 05'31		asc. node	10663 Apr 17 00:48	20° \mathcal{B} 36'45	
	10662 May 13 19:35	30° \mathcal{R} 8		retrograde	10663 Apr 19 05:18	21° \mathcal{B} 00'06	
inferior conj	10662 May 14 12:47	29° \mathcal{B} 01'35	3°14'11	evening set	10663 Apr 23 14:03	19° \mathcal{B} 14'53	
minimum elong	10662 May 14 12:00	29° \mathcal{B} 04'17	3°13'40	inferior conj	10663 Apr 28 20:48	12° \mathcal{B} 59'46	2°59'46
min. Earth dist.	10662 May 15 08:02	27° \mathcal{B} 55'56	0.67879 AU				

minimum elong	10663 Apr 28 19:11	13° ♁ 05'24	2°59'10	asc. node	10664 Apr 02 22:03	5° ♁ 24'29	
min. Earth dist.	10663 Apr 29 02:44	12° ♁ 39'07	0.68495 AU	evening set	10664 Apr 06 21:41	3° ♁ 27'42	
morning rise	10663 May 04 00:05	6° ♁ 45'11			10664 Apr 10 02:02	30° ♁	
direct	10663 May 09 02:49	4° ♁ 31'19		inferior conj	10664 Apr 12 05:56	27° ♁ 04'00	2°35'17
morning max el	10663 May 19 07:00	10° ♁ 33'39	23°01'41	minimum elong	10664 Apr 12 03:50	27° ♁ 11'17	2°34'34
desc. node	10663 May 20 20:31	12° ♁ 11'53		min. Earth dist.	10664 Apr 11 23:17	27° ♁ 27'04	0.68659 AU
	10663 Jun 03 16:16	0° ♁		morning rise	10664 Apr 17 09:51	20° ♁ 55'10	
morning set	10663 Jun 22 18:50	29° ♁ 28'54		direct	10664 Apr 21 23:06	19° ♁ 02'11	
	10663 Jun 23 02:19	0° ♁		morning max el	10664 Apr 30 20:42	24° ♁ 12'11	21°35'07
max. Earth dist.	10663 Jun 27 02:49	6° ♁ 48'18	1.39853 AU		10664 May 05 23:45	0° ♁	
				desc. node	10664 May 06 17:22	0° ♁ 54'58	
superior conj	10663 Jul 04 20:55	20° ♁ 35'08	-1°19'11		10664 May 27 01:32	0° ♁	
minimum elong	10663 Jul 05 02:15	20° ♁ 59'37	1°18'56	morning set	10664 Jun 01 19:56	9° ♁ 00'25	
	10663 Jul 09 21:56	0° ♁		max. Earth dist.	10664 Jun 08 04:31	19° ♁ 17'50	1.42048 AU
asc. node	10663 Jul 13 23:38	7° ♁ 46'16			10664 Jun 14 12:52	0° ♁	
evening rise	10663 Jul 14 13:09	8° ♁ 50'58					
	10663 Jul 26 15:45	0° ♁		superior conj	10664 Jun 15 17:35	2° ♁ 04'07	-1°48'31
evening max el	10663 Jul 30 14:19	4° ♁ 44'28	18°32'20	minimum elong	10664 Jun 16 00:03	2° ♁ 32'13	1°48'26
retrograde	10663 Aug 07 10:29	8° ♁ 40'05		evening rise	10664 Jun 26 18:49	21° ♁ 51'48	
evening set	10663 Aug 09 11:39	8° ♁ 24'51		asc. node	10664 Jun 29 20:35	27° ♁ 27'31	
desc. node	10663 Aug 16 19:16	4° ♁ 17'39			10664 Jul 01 06:29	0° ♁	
inferior conj	10663 Aug 17 06:34	3° ♁ 55'51	-0°08'41	evening max el	10664 Jul 13 00:07	17° ♁ 31'31	18°08'59
minimum elong	10663 Aug 17 06:13	3° ♁ 56'31	0°08'50	retrograde	10664 Jul 19 21:56	21° ♁ 02'07	
transit middle	10663 Aug 17 06:13	3° ♁ 56'31	0°08'50	evening set	10664 Jul 22 06:37	20° ♁ 37'59	
transit begin	10663 Aug 17 03:12	4° ♁ 02'21		inferior conj	10664 Jul 29 06:46	15° ♁ 48'06	1°17'00
transit end	10663 Aug 17 09:14	3° ♁ 50'41		minimum elong	10664 Jul 29 09:01	15° ♁ 43'01	1°15'48
min. Earth dist.	10663 Aug 20 13:24	1° ♁ 24'11	0.57674 AU	min. Earth dist.	10664 Aug 01 14:06	12° ♁ 50'05	0.59861 AU
	10663 Aug 22 13:51	30° ♁		desc. node	10664 Aug 02 16:32	11° ♁ 55'15	
morning rise	10663 Aug 24 21:17	28° ♁ 40'48		morning rise	10664 Aug 05 08:23	10° ♁ 02'13	
direct	10663 Aug 30 20:00	27° ♁ 11'20		direct	10664 Aug 11 19:32	8° ♁ 03'35	
	10663 Sep 08 06:40	0° ♁		morning max el	10664 Aug 26 03:34	15° ♁ 55'48	27°44'19
morning max el	10663 Sep 14 03:57	4° ♁ 46'01	26°53'29		10664 Sep 06 15:45	0° ♁	
	10663 Oct 02 15:11	0° ♁			10664 Sep 24 03:13	0° ♁	
asc. node	10663 Oct 10 00:11	13° ♁ 45'28		asc. node	10664 Sep 25 20:59	3° ♁ 31'45	
morning set	10663 Oct 13 23:31	21° ♁ 57'59		morning set	10664 Sep 27 05:31	6° ♁ 20'28	
	10663 Oct 17 16:22	0° ♁		max. Earth dist.	10664 Oct 03 11:23	19° ♁ 51'44	1.31488 AU
superior conj	10663 Oct 20 21:15	7° ♁ 06'50	1°29'10	superior conj	10664 Oct 04 08:43	21° ♁ 50'05	1°15'32
minimum elong	10663 Oct 20 19:29	6° ♁ 56'56	1°29'18	minimum elong	10664 Oct 04 06:31	21° ♁ 37'51	1°15'23
max. Earth dist.	10663 Oct 21 02:06	7° ♁ 33'48	1.31518 AU		10664 Oct 08 01:01	0° ♁	
evening rise	10663 Oct 27 17:01	22° ♁ 03'08		evening rise	10664 Oct 11 02:00	6° ♁ 37'44	
	10663 Oct 31 13:31	0° ♁			10664 Oct 23 03:59	0° ♁	
desc. node	10663 Nov 12 16:53	21° ♁ 34'59		desc. node	10664 Oct 29 14:06	9° ♁ 57'21	
	10663 Nov 18 13:02	0° ♁		evening max el	10664 Nov 08 01:31	21° ♁ 11'46	25°52'43
evening max el	10663 Nov 27 04:43	9° ♁ 53'51	26°57'14	retrograde	10664 Nov 21 23:05	28° ♁ 13'30	
retrograde	10663 Dec 11 02:52	17° ♁ 03'25		evening set	10664 Nov 28 05:19	26° ♁ 41'36	
evening set	10663 Dec 17 23:11	15° ♁ 02'52		min. Earth dist.	10664 Dec 02 14:07	24° ♁ 05'53	0.58053 AU
min. Earth dist.	10663 Dec 21 19:12	12° ♁ 23'16	0.60138 AU	inferior conj	10664 Dec 05 15:27	21° ♁ 55'37	-4°53'18
inferior conj	10663 Dec 24 23:05	9° ♁ 47'49	-3°44'23	minimum elong	10664 Dec 05 23:17	21° ♁ 41'39	4°50'59
minimum elong	10663 Dec 25 06:26	9° ♁ 32'41	3°41'26	morning rise	10664 Dec 13 19:42	17° ♁ 33'11	
morning rise	10664 Jan 01 16:21	5° ♁ 02'45		direct	10664 Dec 16 00:55	17° ♁ 17'28	
direct	10664 Jan 03 19:25	4° ♁ 45'23		asc. node	10664 Dec 22 21:05	19° ♁ 57'53	
asc. node	10664 Jan 06 00:00	5° ♁ 04'36		morning max el	10664 Dec 24 12:57	21° ♁ 25'20	18°42'06
morning max el	10664 Jan 11 06:34	8° ♁ 28'25	18°04'53		10664 Dec 31 03:49	0° ♁	
	10664 Jan 25 04:17	0° ♁		morning set	10665 Jan 09 17:42	17° ♁ 32'50	
morning set	10664 Jan 26 21:40	3° ♁ 12'19			10665 Jan 16 05:25	0° ♁	
superior conj	10664 Feb 05 17:58	21° ♁ 16'17	0°22'26	superior conj	10665 Jan 18 10:33	4° ♁ 11'48	0°53'14
minimum elong	10664 Feb 05 19:44	21° ♁ 24'06	0°22'32	minimum elong	10665 Jan 18 13:34	4° ♁ 25'57	0°53'17
desc. node	10664 Feb 08 16:24	26° ♁ 26'08		max. Earth dist.	10665 Jan 25 16:52	17° ♁ 23'36	1.39754 AU
	10664 Feb 10 18:01	0° ♁		desc. node	10665 Jan 25 13:14	17° ♁ 07'39	
max. Earth dist.	10664 Feb 13 08:56	4° ♁ 26'03	1.41891 AU	evening rise	10665 Jan 29 17:34	24° ♁ 19'01	
evening rise	10664 Feb 18 15:51	13° ♁ 05'58			10665 Feb 02 03:53	0° ♁	
	10664 Feb 29 14:30	0° ♁			10665 Feb 22 09:41	0° ♁	
evening max el	10664 Mar 23 01:28	29° ♁ 32'50	22°43'27	evening max el	10665 Mar 05 15:46	13° ♁ 21'18	24°03'50
	10664 Mar 23 12:26	0° ♁		retrograde	10665 Mar 16 19:06	19° ♁ 54'07	
retrograde	10664 Apr 02 01:46	5° ♁ 27'56		asc. node	10665 Mar 20 19:19	18° ♁ 39'19	

evening set	10665 Mar 22 02:55	17° Υ 40'16		retrograde	10666 Feb 28 08:17	4° Υ 12'08	
min. Earth dist.	10665 Mar 26 19:36	12° Υ 14'54	0.68384 AU	evening set	10666 Mar 06 04:09	1° Υ 47'13	
inferior conj	10665 Mar 27 14:20	11° Υ 11'25	2°01'20	asc. node	10666 Mar 07 16:35	0° Υ 20'51	
minimum elong	10665 Mar 27 12:11	11° Υ 18'45	2°00'36		10666 Mar 08 00:25	30° \Re \mathfrak{H}	
morning rise	10665 Apr 01 21:30	5° Υ 09'30		min. Earth dist.	10666 Mar 10 13:30	26° \mathfrak{H} 56'48	0.67691 AU
direct	10665 Apr 05 21:38	3° Υ 38'28		inferior conj	10666 Mar 11 20:07	25° \mathfrak{H} 17'40	1°18'04
morning max el	10665 Apr 13 17:13	8° Υ 03'14	20°18'35	minimum elong	10666 Mar 11 18:24	25° \mathfrak{H} 23'15	1°17'33
desc. node	10665 Apr 23 14:11	20° Υ 16'34		morning rise	10666 Mar 17 09:03	19° \mathfrak{H} 24'02	
	10665 Apr 30 08:06	0° \mathfrak{B}		direct	10666 Mar 20 21:02	18° \mathfrak{H} 13'42	
morning set	10665 May 11 23:39	17° \mathfrak{B} 37'31		morning max el	10666 Mar 27 21:33	22° \mathfrak{H} 05'10	19°16'00
	10665 May 19 21:11	0° Π			10666 Apr 03 11:10	0° Υ	
max. Earth dist.	10665 May 21 13:22	2° Π 40'26	1.43867 AU	greatest brilliancy	10666 Apr 09 18:43	9° Υ 05'08	-0.7m
				desc. node	10666 Apr 10 10:56	10° Υ 05'43	
superior conj	10665 May 27 14:47	12° Π 31'19	-2°08'23	morning set	10666 Apr 21 00:25	26° Υ 13'22	
minimum elong	10665 May 27 19:04	12° Π 49'00	2°08'44		10666 Apr 23 11:04	0° \mathfrak{B}	
	10665 Jun 06 22:49	0° \mathfrak{B}		max. Earth dist.	10666 May 04 03:58	16° \mathfrak{B} 41'29	1.45105 AU
evening rise	10665 Jun 09 07:37	4° \mathfrak{B} 06'05					
asc. node	10665 Jun 16 17:36	16° \mathfrak{B} 51'21		superior conj	10666 May 07 12:29	21° \mathfrak{B} 59'35	-2°12'12
	10665 Jun 25 20:34	0° Ω		minimum elong	10666 May 07 10:12	21° \mathfrak{B} 50'34	2°12'34
evening max el	10665 Jun 26 13:27	0° Ω 43'29	18°04'58		10666 May 12 12:41	0° Π	
retrograde	10665 Jul 03 00:07	4° Ω 04'14		evening rise	10666 May 21 22:41	15° Π 22'54	
evening set	10665 Jul 05 16:37	3° Ω 28'18			10666 May 30 20:17	0° \mathfrak{B}	
	10665 Jul 10 09:18	30° \Re \mathfrak{B}		asc. node	10666 Jun 03 14:40	5° \mathfrak{B} 50'58	
inferior conj	10665 Jul 12 01:16	28° \mathfrak{B} 19'15	2°17'03	evening max el	10666 Jun 10 02:59	14° \mathfrak{B} 11'48	18°19'35
minimum elong	10665 Jul 12 04:01	28° \mathfrak{B} 12'07	2°15'49	retrograde	10666 Jun 16 12:24	17° \mathfrak{B} 36'41	
min. Earth dist.	10665 Jul 14 23:51	25° \mathfrak{B} 17'40	0.62126 AU	evening set	10666 Jun 19 12:46	16° \mathfrak{B} 46'57	
morning rise	10665 Jul 18 13:17	22° \mathfrak{B} 12'47		inferior conj	10666 Jun 25 09:52	11° \mathfrak{B} 20'43	2°54'26
desc. node	10665 Jul 20 13:45	20° \mathfrak{B} 58'53		minimum elong	10666 Jun 25 11:57	11° \mathfrak{B} 14'41	2°53'31
direct	10665 Jul 25 05:57	19° \mathfrak{B} 49'12		min. Earth dist.	10666 Jun 27 19:03	8° \mathfrak{B} 36'12	0.64218 AU
morning max el	10665 Aug 08 09:36	27° \mathfrak{B} 51'12	27°56'39	morning rise	10666 Jul 01 09:51	5° \mathfrak{B} 03'31	
	10665 Aug 10 10:58	0° Ω		desc. node	10666 Jul 07 10:54	2° \mathfrak{B} 25'17	
	10665 Aug 31 10:25	0° \mathfrak{M}		direct	10666 Jul 08 01:31	2° \mathfrak{B} 24'01	
morning set	10665 Sep 11 05:54	20° \mathfrak{M} 24'11		morning max el	10666 Jul 21 19:22	10° \mathfrak{B} 25'18	27°32'13
asc. node	10665 Sep 12 17:48	23° \mathfrak{M} 29'08			10666 Aug 06 04:52	0° Ω	
	10665 Sep 15 19:38	0° \mathfrak{L}			10666 Aug 23 20:20	0° \mathfrak{M}	
max. Earth dist.	10665 Sep 16 17:28	1° \mathfrak{L} 57'55	1.31948 AU	morning set	10666 Aug 25 22:12	4° \mathfrak{M} 02'38	
				max. Earth dist.	10666 Aug 30 16:22	13° \mathfrak{M} 42'20	1.32912 AU
superior conj	10665 Sep 18 18:13	6° \mathfrak{L} 23'46	0°56'41	asc. node	10666 Aug 30 14:36	13° \mathfrak{M} 33'08	
minimum elong	10665 Sep 18 16:04	6° \mathfrak{L} 11'59	0°56'19				
evening rise	10665 Sep 25 13:07	21° \mathfrak{L} 15'38		superior conj	10666 Sep 02 23:45	20° \mathfrak{M} 42'24	0°32'55
	10665 Sep 29 17:28	0° \mathfrak{M}		minimum elong	10666 Sep 02 22:14	20° \mathfrak{M} 34'15	0°32'28
desc. node	10665 Oct 16 11:22	27° \mathfrak{M} 14'35			10666 Sep 07 07:03	0° \mathfrak{L}	
	10665 Oct 18 22:03	0° \mathfrak{J}		evening rise	10666 Sep 10 00:28	5° \mathfrak{L} 51'37	
evening max el	10665 Oct 20 14:27	1° \mathfrak{J} 41'52	24°22'31		10666 Sep 22 18:56	0° \mathfrak{M}	
retrograde	10665 Nov 03 07:44	8° \mathfrak{J} 34'24		evening max el	10666 Oct 02 01:20	11° \mathfrak{M} 49'38	22°42'02
evening set	10665 Nov 08 11:17	7° \mathfrak{J} 35'50		desc. node	10666 Oct 03 08:39	13° \mathfrak{M} 02'28	
min. Earth dist.	10665 Nov 14 01:25	4° \mathfrak{J} 45'07	0.56236 AU	retrograde	10666 Oct 15 04:12	18° \mathfrak{M} 21'33	
inferior conj	10665 Nov 16 11:21	3° \mathfrak{J} 14'58	-5°38'58	evening set	10666 Oct 18 20:13	17° \mathfrak{M} 52'05	
minimum elong	10665 Nov 16 15:18	3° \mathfrak{J} 08'47	5°38'08	min. Earth dist.	10666 Oct 26 09:21	14° \mathfrak{M} 28'13	0.54999 AU
	10665 Nov 22 11:08	30° \Re \mathfrak{M}		inferior conj	10666 Oct 27 12:56	13° \mathfrak{M} 48'55	-5°40'01
morning rise	10665 Nov 24 21:28	29° \mathfrak{M} 14'07		minimum elong	10666 Oct 27 08:53	13° \mathfrak{M} 54'43	5°39'21
direct	10665 Nov 27 10:59	28° \mathfrak{M} 56'42		morning rise	10666 Nov 04 23:14	10° \mathfrak{M} 00'44	
	10665 Dec 02 04:09	0° \mathfrak{J}		direct	10666 Nov 08 03:15	9° \mathfrak{M} 37'40	
morning max el	10665 Dec 07 08:20	3° \mathfrak{J} 38'56	19°41'35	morning max el	10666 Nov 19 14:13	15° \mathfrak{M} 02'16	21°03'30
asc. node	10665 Dec 09 18:08	6° \mathfrak{J} 12'59		asc. node	10666 Nov 26 15:06	23° \mathfrak{M} 33'51	
	10665 Dec 23 22:03	0° \mathfrak{B}			10666 Nov 30 15:14	0° \mathfrak{J}	
morning set	10665 Dec 24 21:19	1° \mathfrak{B} 56'59		morning set	10666 Dec 09 05:45	16° \mathfrak{J} 40'17	
					10666 Dec 15 14:43	0° \mathfrak{B}	
superior conj	10666 Jan 01 18:35	17° \mathfrak{B} 50'13	1°15'54				
minimum elong	10666 Jan 01 21:27	18° \mathfrak{B} 04'22	1°16'06	superior conj	10666 Dec 16 13:49	1° \mathfrak{B} 59'28	1°30'43
max. Earth dist.	10666 Jan 07 22:55	29° \mathfrak{B} 41'01	1.37546 AU	minimum elong	10666 Dec 16 15:47	2° \mathfrak{B} 09'36	1°31'06
	10666 Jan 08 03:01	0° \approx		max. Earth dist.	10666 Dec 21 08:07	11° \mathfrak{B} 35'59	1.35512 AU
evening rise	10666 Jan 11 16:11	6° \approx 26'05		evening rise	10666 Dec 25 08:49	19° \mathfrak{B} 19'58	
desc. node	10666 Jan 12 10:06	7° \approx 45'16		desc. node	10666 Dec 30 07:02	28° \mathfrak{B} 15'13	
	10666 Jan 26 01:45	0° \mathfrak{H}			10666 Dec 31 07:06	0° \approx	
evening max el	10666 Feb 16 05:00	27° \mathfrak{H} 10'49	25°20'01		10667 Jan 20 03:56	0° \mathfrak{H}	
	10666 Feb 19 07:42	0° Υ		evening max el	10667 Jan 29 18:25	10° \mathfrak{H} 57'41	26°24'43

retrograde	10667 Feb 11 16:18	18° H 15'26			10667 Dec 24 04:04	0° \approx	
evening set	10667 Feb 17 23:38	15° H 43'30		evening max el	10668 Jan 12 07:54	24° \approx 33'38	27°10'38
min. Earth dist.	10667 Feb 22 02:51	11° H 27'24	0.66605 AU		10668 Jan 19 07:55	0° H	
asc. node	10667 Feb 22 13:50	10° H 54'28		retrograde	10668 Jan 25 18:16	1° H 56'28	
inferior conj	10667 Feb 23 21:16	9° H 18'50	0°25'32		10668 Jan 31 14:47	30° R \approx	
minimum elong	10667 Feb 23 20:36	9° H 20'53	0°25'31	evening set	10668 Feb 01 11:20	29° \approx 22'59	
morning rise	10667 Mar 01 18:27	3° H 35'13		min. Earth dist.	10668 Feb 05 09:23	25° \approx 40'12	0.65152 AU
direct	10667 Mar 04 19:37	2° H 42'54		inferior conj	10668 Feb 07 15:29	23° \approx 09'45	-0°36'01
morning max el	10667 Mar 11 08:43	6° H 13'27	18°29'24	minimum elong	10668 Feb 07 16:32	23° \approx 06'48	0°35'12
desc. node	10667 Mar 28 07:39	0° Y 15'00		asc. node	10668 Feb 09 11:02	21° \approx 11'42	
	10667 Mar 28 03:51	0° Y		morning rise	10668 Feb 13 23:15	17° \approx 38'36	
morning set	10667 Mar 31 20:43	5° Y 51'08		direct	10668 Feb 16 15:16	17° \approx 00'46	
	10667 Apr 16 05:28	0° B		morning max el	10668 Feb 23 00:32	20° \approx 21'55	17°59'41
					10668 Mar 01 10:23	0° H	
superior conj	10667 Apr 16 19:43	0° B 55'46	-1°55'47	morning set	10668 Mar 11 22:14	16° H 56'27	
minimum elong	10667 Apr 16 11:06	0° B 22'04	1°55'24	desc. node	10668 Mar 14 04:23	20° H 39'00	
max. Earth dist.	10667 Apr 16 22:16	1° B 05'44	1.45648 AU		10668 Mar 19 22:10	0° Y	
evening rise	10667 May 02 13:37	25° B 39'48					
	10667 May 05 07:21	0° II		superior conj	10668 Mar 26 06:09	10° Y 07'32	-1°22'01
greatest brilliancy	10667 May 11 16:30	10° II 03'26	-0.8m	minimum elong	10668 Mar 25 21:28	9° Y 33'07	1°21'04
asc. node	10667 May 21 11:47	24° II 17'57		max. Earth dist.	10668 Mar 29 18:15	15° Y 39'07	1.45445 AU
evening max el	10667 May 24 13:59	27° II 49'21	18°51'57		10668 Apr 07 23:29	0° B	
	10667 May 27 03:00	0° B		evening rise	10668 Apr 11 08:38	5° B 13'04	
retrograde	10667 May 31 06:54	1° B 31'17		greatest brilliancy	10668 Apr 25 04:26	26° B 13'22	-0.7m
evening set	10667 Jun 03 15:26	0° B 26'24			10668 Apr 27 18:43	0° II	
	10667 Jun 04 06:36	30° R II		evening max el	10668 May 06 20:30	11° II 31'26	19°40'47
inferior conj	10667 Jun 09 04:43	24° II 44'28	3°13'23	asc. node	10668 May 07 08:56	12° II 02'06	
minimum elong	10667 Jun 09 05:40	24° II 41'27	3°12'46	retrograde	10668 May 14 04:41	15° II 42'05	
min. Earth dist.	10667 Jun 10 22:54	22° II 32'13	0.65980 AU	evening set	10668 May 17 22:00	14° II 21'23	
morning rise	10667 Jun 14 19:13	18° II 23'38		inferior conj	10668 May 23 06:39	8° II 25'04	3°17'30
direct	10667 Jun 21 04:26	15° II 39'30		minimum elong	10668 May 23 06:27	8° II 25'45	3°17'00
desc. node	10667 Jun 24 07:58	16° II 13'37		min. Earth dist.	10668 May 24 10:00	6° II 54'03	0.67317 AU
morning max el	10667 Jul 04 06:00	23° II 25'40	26°37'25	morning rise	10668 May 28 14:33	2° II 04'56	
	10667 Jul 10 02:07	0° B			10668 May 31 18:43	30° R B	
	10667 Jul 30 13:09	0° B		direct	10668 Jun 03 13:28	29° B 26'47	
morning set	10667 Aug 09 03:11	17° B 06'32			10668 Jun 06 12:40	0° II	
max. Earth dist.	10667 Aug 13 05:08	25° B 01'01	1.34385 AU	desc. node	10668 Jun 10 04:57	1° II 58'06	
	10667 Aug 15 16:40	0° B		morning max el	10668 Jun 15 16:03	6° II 42'16	25°21'14
asc. node	10667 Aug 17 11:24	3° B 39'01			10668 Jul 03 17:54	0° B	
				morning set	10668 Jul 21 16:53	29° B 25'58	
superior conj	10667 Aug 17 22:58	4° B 38'50	0°04'45		10668 Jul 22 00:26	0° B	
minimum elong	10667 Aug 17 22:43	4° B 37'35	0°04'24	max. Earth dist.	10668 Jul 25 08:06	6° B 06'33	1.36311 AU
behind sun begin	10667 Aug 17 17:06	4° B 08'28					
behind sun end	10667 Aug 18 04:20	5° B 06'45		superior conj	10668 Jul 31 13:03	18° B 06'09	-0°26'56
evening rise	10667 Aug 25 10:06	20° B 19'25		minimum elong	10668 Jul 31 14:44	18° B 14'33	0°27'00
	10667 Aug 30 04:19	0° B		asc. node	10668 Aug 03 08:14	23° B 43'25	
evening max el	10667 Sep 13 19:22	22° B 10'44	21°07'48		10668 Aug 06 10:12	0° B	
desc. node	10667 Sep 20 05:56	26° B 50'32		evening rise	10668 Aug 08 15:51	4° B 33'31	
retrograde	10667 Sep 25 15:55	28° B 03'40			10668 Aug 23 06:21	0° B	
evening set	10667 Sep 28 02:11	27° B 49'52		evening max el	10668 Aug 26 02:30	3° B 11'48	19°50'44
inferior conj	10667 Oct 07 05:09	23° B 54'37	-4°43'37	retrograde	10668 Sep 05 06:56	8° B 15'18	
minimum elong	10667 Oct 06 19:28	24° B 08'15	4°41'05	desc. node	10668 Sep 06 03:13	8° B 13'20	
min. Earth dist.	10667 Oct 07 17:00	23° B 37'54	0.54609 AU	evening set	10668 Sep 07 04:12	8° B 05'40	
morning rise	10667 Oct 15 13:11	20° B 02'00		inferior conj	10668 Sep 16 02:22	4° B 04'20	-3°02'28
direct	10667 Oct 19 11:34	19° B 28'43		minimum elong	10668 Sep 15 18:19	4° B 16'39	2°59'36
morning max el	10667 Nov 01 07:38	25° B 37'31	22°43'53	min. Earth dist.	10668 Sep 18 02:41	2° B 50'25	0.55170 AU
	10667 Nov 05 09:39	0° B			10668 Sep 23 16:30	30° R B	
asc. node	10667 Nov 13 12:00	11° B 44'48		morning rise	10668 Sep 24 06:50	29° B 47'15	
	10667 Nov 23 00:06	0° B		direct	10668 Sep 29 00:36	28° B 58'02	
morning set	10667 Nov 23 16:47	1° B 28'00			10668 Oct 04 06:30	0° B	
				morning max el	10668 Oct 12 18:58	5° B 46'16	24°31'23
superior conj	10667 Nov 30 16:47	16° B 28'48	1°38'21	asc. node	10668 Oct 30 08:52	0° B 33'45	
minimum elong	10667 Nov 30 17:34	16° B 32'59	1°38'51		10668 Oct 30 01:31	0° B	
max. Earth dist.	10667 Dec 04 00:44	23° B 29'58	1.33816 AU	morning set	10668 Nov 07 04:37	16° B 15'04	
	10667 Dec 07 05:17	0° B			10668 Nov 13 11:57	0° B	
evening rise	10667 Dec 08 15:41	2° B 50'11					
desc. node	10667 Dec 17 04:02	18° B 32'06		superior conj	10668 Nov 14 00:48	1° B 10'19	1°39'27

minimum elong	10668 Nov 14 00:25	1°♊08'14	1°39'55	max. Earth dist.	10669 Oct 30 08:03	17°♌50'31	1.31752 AU
max. Earth dist.	10668 Nov 16 01:25	5°♊34'48	1.32551 AU		10669 Nov 04 22:26	0°♊	
evening rise	10668 Nov 21 09:20	16°♊47'45		evening rise	10669 Nov 05 10:49	1°♊05'09	
	10668 Nov 28 05:04	0°♊		desc. node	10669 Nov 19 22:12	27°♊59'47	
desc. node	10668 Dec 03 01:05	8°♊29'36			10669 Nov 21 04:27	0°♊	
	10668 Dec 17 18:00	0°♊		evening max el	10669 Dec 07 03:43	20°♊21'33	27°19'13
evening max el	10668 Dec 24 19:48	7°♊45'55	27°30'40	retrograde	10669 Dec 21 00:50	27°♊36'02	
retrograde	10669 Jan 07 13:18	15°♊06'20		evening set	10669 Dec 28 00:45	25°♊22'19	
evening set	10669 Jan 14 12:44	12°♊38'19		min. Earth dist.	10669 Dec 31 18:09	22°♊34'09	0.61357 AU
min. Earth dist.	10669 Jan 18 06:58	9°♊26'04	0.63377 AU	inferior conj	10670 Jan 03 19:46	19°♊51'21	-3°00'49
inferior conj	10669 Jan 21 00:02	6°♊43'16	-1°45'42	minimum elong	10670 Jan 04 01:50	19°♊37'52	2°58'04
minimum elong	10669 Jan 21 03:28	6°♊34'39	1°43'50	morning rise	10670 Jan 11 05:33	14°♊54'39	
asc. node	10669 Jan 26 08:13	2°♊11'22		direct	10670 Jan 13 09:42	14°♊34'47	
morning rise	10669 Jan 27 20:18	1°♊27'41		asc. node	10670 Jan 13 05:21	14°♊34'56	
direct	10669 Jan 30 05:09	1°♊00'38		morning max el	10670 Jan 20 10:22	18°♊07'16	17°52'59
morning max el	10669 Feb 05 18:09	4°♊22'36	17°47'18		10670 Jan 28 23:22	0°♊	
morning set	10669 Feb 22 02:08	29°♊18'04		morning set	10670 Feb 05 02:03	12°♊36'19	
	10669 Feb 22 11:50	0°♊			10670 Feb 14 19:51	0°♊	
desc. node	10669 Mar 01 01:07	11°♊12'47		superior conj	10670 Feb 15 18:13	1°♊36'47	0°01'11
superior conj	10669 Mar 06 11:38	20°♊16'10	-0°40'02	minimum elong	10670 Feb 15 18:21	1°♊37'21	0°01'29
minimum elong	10669 Mar 06 07:26	19°♊58'52	0°39'16	behind sun begin	10670 Feb 15 10:01	1°♊01'20	
max. Earth dist.	10669 Mar 12 13:00	0°♊03'54	1.44525 AU	behind sun end	10670 Feb 16 02:41	2°♊13'15	
	10669 Mar 12 12:01	0°♊		desc. node	10670 Feb 15 21:55	1°♊52'44	
evening rise	10669 Mar 21 20:01	14°♊35'41		max. Earth dist.	10670 Feb 23 03:45	14°♊02'42	1.42987 AU
	10669 Apr 01 00:51	0°♊		evening rise	10670 Mar 01 15:08	24°♊25'32	
evening max el	10669 Apr 19 21:20	25°♊14'14	20°43'53		10670 Mar 05 05:12	0°♊	
asc. node	10669 Apr 24 06:08	28°♊49'36			10670 Mar 26 01:37	0°♊	
	10669 Apr 27 09:24	0°♊		evening max el	10670 Apr 02 16:48	8°♊58'12	21°57'47
retrograde	10669 Apr 28 03:25	0°♊02'59		asc. node	10670 Apr 11 03:20	14°♊25'40	
	10669 Apr 28 21:08	30°♊		retrograde	10670 Apr 12 01:17	14°♊29'45	
evening set	10669 May 02 06:19	28°♊26'24		evening set	10670 Apr 16 14:41	12°♊37'51	
inferior conj	10669 May 07 13:04	22°♊17'23	3°09'21	inferior conj	10670 Apr 21 21:48	6°♊18'26	2°50'34
minimum elong	10669 May 07 11:53	22°♊21'26	3°08'48	minimum elong	10670 Apr 21 19:57	6°♊24'56	2°49'54
min. Earth dist.	10669 May 08 02:27	21°♊31'12	0.68197 AU	min. Earth dist.	10670 Apr 21 22:14	6°♊16'55	0.68620 AU
morning rise	10669 May 12 17:15	16°♊00'22		morning rise	10670 Apr 27 01:03	0°♊06'06	
direct	10669 May 18 03:34	13°♊36'15			10670 Apr 27 03:54	30°♊	
desc. node	10669 May 28 01:54	19°♊09'10		direct	10670 May 01 21:55	28°♊01'05	
morning max el	10669 May 29 01:40	20°♊07'43	23°53'31		10670 May 07 05:50	0°♊	
	10669 Jun 06 11:49	0°♊		morning max el	10670 May 11 13:01	3°♊41'09	22°23'59
	10669 Jun 26 22:22	0°♊		desc. node	10670 May 14 22:49	7°♊23'55	
morning set	10669 Jul 03 10:22	10°♊47'45			10670 May 31 14:15	0°♊	
max. Earth dist.	10669 Jul 07 05:28	17°♊24'08	1.38532 AU	morning set	10670 Jun 14 02:49	21°♊00'41	
	10669 Jul 14 02:49	0°♊		max. Earth dist.	10670 Jun 19 03:42	29°♊21'20	1.40813 AU
superior conj	10669 Jul 14 14:25	0°♊54'44	-1°00'19		10670 Jun 19 12:51	0°♊	
minimum elong	10669 Jul 14 18:28	1°♊13'55	1°00'07	superior conj	10670 Jun 26 22:50	12°♊55'09	-1°32'24
asc. node	10669 Jul 21 05:07	13°♊41'53		minimum elong	10670 Jun 27 04:55	13°♊22'24	1°32'10
evening rise	10669 Jul 23 15:01	18°♊26'01			10670 Jul 06 05:10	0°♊	
	10669 Jul 29 16:34	0°♊		evening rise	10670 Jul 07 04:16	1°♊48'23	
evening max el	10669 Aug 08 22:41	14°♊59'04	18°54'51	asc. node	10670 Jul 08 02:03	3°♊30'32	
retrograde	10669 Aug 17 13:06	19°♊16'31		evening max el	10670 Jul 23 04:41	27°♊26'53	18°20'00
evening set	10669 Aug 19 10:44	19°♊04'45			10670 Jul 26 10:58	0°♊	
desc. node	10669 Aug 24 00:29	17°♊12'41		retrograde	10670 Jul 30 14:12	1°♊10'20	
inferior conj	10669 Aug 27 16:46	14°♊46'59	-1°08'45	evening set	10670 Aug 01 18:15	0°♊51'53	
minimum elong	10669 Aug 27 13:51	14°♊52'09	1°07'47		10670 Aug 03 21:52	30°♊	
min. Earth dist.	10669 Aug 30 16:51	12°♊40'01	0.56571 AU	inferior conj	10670 Aug 09 04:56	26°♊14'03	0°30'47
morning rise	10669 Sep 04 13:45	9°♊52'58		minimum elong	10670 Aug 09 05:59	26°♊11'51	0°30'03
direct	10669 Sep 10 02:24	8°♊40'13		desc. node	10670 Aug 10 21:46	24°♊48'51	
morning max el	10669 Sep 24 08:14	16°♊00'44	26°08'51	min. Earth dist.	10670 Aug 12 13:30	23°♊28'10	0.58565 AU
	10669 Oct 05 16:57	0°♊		morning rise	10670 Aug 16 14:14	20°♊44'20	
asc. node	10669 Oct 17 05:42	19°♊51'06		direct	10670 Aug 22 18:50	19°♊02'16	
	10669 Oct 22 04:52	0°♊		morning max el	10670 Sep 06 03:50	26°♊46'22	27°19'46
morning set	10669 Oct 22 15:33	0°♊56'53			10670 Sep 09 05:38	0°♊	
					10670 Sep 29 05:33	0°♊	
superior conj	10669 Oct 29 11:41	15°♊57'41	1°34'34	asc. node	10670 Oct 04 02:32	9°♊28'36	
minimum elong	10669 Oct 29 10:20	15°♊50'10	1°34'51	morning set	10670 Oct 06 23:52	15°♊27'49	

superior conj	10670 Oct 13 23:28	0° \mathbb{M} 44'04	1°24'03	superior conj	10671 Sep 28 10:19	15° \mathfrak{L} 23'59	1°08'11
minimum elong	10670 Oct 13 21:27	0° \mathbb{M} 32'53	1°24'04	minimum elong	10671 Sep 28 08:05	15° \mathfrak{L} 11'34	1°07'56
max. Earth dist.	10670 Oct 13 17:17	0° \mathbb{M} 09'40	1.31436 AU	evening rise	10671 Oct 05 03:45	0° \mathbb{M} 11'29	
	10670 Oct 13 15:33	0° \mathbb{M}			10671 Oct 05 01:37	0° \mathbb{M}	
evening rise	10670 Oct 20 17:39	15° \mathbb{M} 35'01			10671 Oct 21 06:55	0° \mathfrak{A}	
	10670 Oct 27 20:58	0° \mathfrak{A}		desc. node	10671 Oct 24 16:36	4° \mathfrak{A} 48'11	
desc. node	10670 Nov 06 19:23	16° \mathfrak{A} 51'05		evening max el	10671 Oct 31 22:20	13° \mathfrak{A} 05'24	25°16'53
	10670 Nov 17 01:24	0° \mathfrak{B}		retrograde	10671 Nov 14 19:13	20° \mathfrak{A} 03'49	
evening max el	10670 Nov 19 05:03	2° \mathfrak{B} 09'04	26°33'38	evening set	10671 Nov 20 15:21	18° \mathfrak{A} 46'15	
retrograde	10670 Dec 03 03:32	9° \mathfrak{B} 16'12		min. Earth dist.	10671 Nov 25 10:27	16° \mathfrak{A} 06'14	0.57229 AU
evening set	10670 Dec 09 19:12	7° \mathfrak{B} 26'40		inferior conj	10671 Nov 28 06:51	14° \mathfrak{A} 11'29	-5°16'45
min. Earth dist.	10670 Dec 13 18:51	4° \mathfrak{B} 50'50	0.59234 AU	minimum elong	10671 Nov 28 13:41	14° \mathfrak{A} 00'00	5°15'03
inferior conj	10670 Dec 16 23:04	2° \mathfrak{B} 23'43	-4°15'15	morning rise	10671 Dec 06 14:19	9° \mathfrak{A} 58'21	
minimum elong	10670 Dec 17 07:00	2° \mathfrak{B} 08'21	4°12'24	direct	10671 Dec 08 22:05	9° \mathfrak{A} 42'25	
	10670 Dec 20 05:51	30° \mathfrak{R} \mathfrak{A}		asc. node	10671 Dec 17 23:32	14° \mathfrak{A} 04'06	
morning rise	10670 Dec 24 21:31	27° \mathfrak{A} 48'24		morning max el	10671 Dec 17 23:36	14° \mathfrak{A} 04'16	19°04'28
direct	10670 Dec 27 00:39	27° \mathfrak{A} 32'17			10671 Dec 28 23:25	0° \mathfrak{B}	
asc. node	10670 Dec 31 02:28	28° \mathfrak{A} 34'37		morning set	10672 Jan 03 15:40	10° \mathfrak{B} 54'18	
	10671 Jan 02 07:00	0° \mathfrak{B}		superior conj	10672 Jan 11 23:20	27° \mathfrak{B} 15'47	1°03'50
morning max el	10671 Jan 03 21:30	1° \mathfrak{B} 24'48	18°18'04	minimum elong	10672 Jan 12 02:25	27° \mathfrak{B} 30'34	1°03'55
morning set	10671 Jan 19 16:02	26° \mathfrak{B} 32'37			10672 Jan 13 09:45	0° \mathfrak{B}	
	10671 Jan 21 11:40	0° \mathfrak{C}		max. Earth dist.	10672 Jan 18 19:49	10° \mathfrak{C} 00'11	1.38817 AU
superior conj	10671 Jan 28 23:40	14° \mathfrak{C} 01'01	0°36'27	desc. node	10672 Jan 20 15:33	13° \mathfrak{C} 14'29	
minimum elong	10671 Jan 29 02:10	14° \mathfrak{C} 12'26	0°36'30	evening rise	10672 Jan 22 15:22	16° \mathfrak{C} 42'32	
desc. node	10671 Feb 02 18:43	22° \mathfrak{C} 34'24			10672 Jan 30 16:31	0° \mathfrak{H}	
max. Earth dist.	10671 Feb 05 13:25	27° \mathfrak{C} 22'06	1.41007 AU		10672 Feb 20 23:17	0° \mathfrak{Y}	
	10671 Feb 07 02:44	0° \mathfrak{H}		evening max el	10672 Feb 26 22:11	6° \mathfrak{Y} 34'08	24°37'14
evening rise	10671 Feb 10 04:30	5° \mathfrak{H} 05'47		retrograde	10672 Mar 09 12:20	13° \mathfrak{Y} 20'09	
	10671 Feb 26 10:16	0° \mathfrak{Y}		asc. node	10672 Mar 14 21:52	11° \mathfrak{Y} 08'32	
evening max el	10671 Mar 16 08:24	22° \mathfrak{Y} 44'41	23°17'41	evening set	10672 Mar 15 01:13	11° \mathfrak{Y} 01'30	
retrograde	10671 Mar 26 20:43	28° \mathfrak{Y} 57'18		min. Earth dist.	10672 Mar 19 14:44	5° \mathfrak{Y} 50'49	0.68142 AU
asc. node	10671 Mar 29 00:36	28° \mathfrak{Y} 34'56		inferior conj	10672 Mar 20 14:26	4° \mathfrak{Y} 31'50	1°44'07
evening set	10671 Mar 31 21:30	26° \mathfrak{Y} 51'11		minimum elong	10672 Mar 20 12:23	4° \mathfrak{Y} 38'39	1°43'27
inferior conj	10671 Apr 06 06:54	20° \mathfrak{Y} 24'35	2°22'02		10672 Mar 24 07:49	30° \mathfrak{R} \mathfrak{H}	
minimum elong	10671 Apr 06 04:43	20° \mathfrak{Y} 32'06	2°21'18	morning rise	10672 Mar 25 23:43	28° \mathfrak{H} 33'00	
min. Earth dist.	10671 Apr 05 19:06	21° \mathfrak{Y} 05'18	0.68594 AU	direct	10672 Mar 29 18:35	27° \mathfrak{H} 10'50	
morning rise	10671 Apr 11 11:52	14° \mathfrak{Y} 18'17			10672 Apr 04 18:26	0° \mathfrak{Y}	
direct	10671 Apr 15 19:23	12° \mathfrak{Y} 34'40		morning max el	10672 Apr 06 05:01	1° \mathfrak{Y} 19'49	19°49'58
morning max el	10671 Apr 24 05:20	17° \mathfrak{Y} 24'43	21°00'56	desc. node	10672 Apr 17 16:26	15° \mathfrak{Y} 58'56	
desc. node	10671 May 01 19:40	26° \mathfrak{Y} 24'49		greatest brilliancy	10672 Apr 19 06:42	18° \mathfrak{Y} 17'45	-0.6m
	10671 May 04 11:26	0° \mathfrak{B}			10672 Apr 27 02:48	0° \mathfrak{B}	
morning set	10671 May 24 17:26	0° \mathbb{I} 04'46		morning set	10672 May 02 16:52	8° \mathfrak{B} 32'10	
	10671 May 24 16:13	0° \mathbb{I}		max. Earth dist.	10672 May 13 19:16	25° \mathfrak{B} 52'29	1.44478 AU
max. Earth dist.	10671 Jun 01 07:49	12° \mathbb{I} 12'04	1.42878 AU		10672 May 16 09:19	0° \mathbb{I}	
superior conj	10671 Jun 08 09:54	23° \mathbb{I} 58'27	-1°58'30	superior conj	10672 May 18 20:41	3° \mathbb{I} 59'08	-2°12'20
minimum elong	10671 Jun 08 15:58	24° \mathbb{I} 24'15	1°58'36	minimum elong	10672 May 18 22:37	4° \mathbb{I} 06'57	2°12'47
	10671 Jun 11 22:14	0° \mathfrak{E}		evening rise	10672 Jun 01 07:23	26° \mathbb{I} 20'48	
evening rise	10671 Jun 20 03:22	14° \mathfrak{E} 30'33			10672 Jun 03 10:56	0° \mathfrak{E}	
asc. node	10671 Jun 24 23:02	23° \mathfrak{E} 04'57		asc. node	10672 Jun 10 20:04	12° \mathfrak{E} 19'01	
	10671 Jun 29 00:31	0° \mathfrak{Q}		evening max el	10672 Jun 19 06:20	23° \mathfrak{E} 45'47	18°08'59
evening max el	10671 Jul 06 16:30	10° \mathfrak{Q} 25'54	18°05'03	retrograde	10672 Jun 25 15:09	27° \mathfrak{E} 06'15	
retrograde	10671 Jul 13 08:16	13° \mathfrak{Q} 50'19		evening set	10672 Jun 28 11:06	26° \mathfrak{E} 24'30	
evening set	10671 Jul 15 20:17	13° \mathfrak{Q} 21'31		inferior conj	10672 Jul 04 14:21	21° \mathfrak{E} 07'57	2°35'25
inferior conj	10671 Jul 22 13:24	8° \mathfrak{Q} 23'38	1°45'28	minimum elong	10672 Jul 04 16:55	21° \mathfrak{E} 00'58	2°34'18
minimum elong	10671 Jul 22 16:04	8° \mathfrak{Q} 17'14	1°44'10	min. Earth dist.	10672 Jul 07 07:35	18° \mathfrak{E} 11'34	0.63055 AU
min. Earth dist.	10671 Jul 25 18:02	5° \mathfrak{Q} 21'01	0.60828 AU	morning rise	10672 Jul 10 21:01	14° \mathfrak{E} 56'13	
desc. node	10671 Jul 28 19:00	2° \mathfrak{Q} 51'46		desc. node	10672 Jul 14 16:11	12° \mathfrak{E} 52'31	
morning rise	10671 Jul 29 09:09	2° \mathfrak{Q} 27'44		direct	10672 Jul 17 14:10	12° \mathfrak{E} 24'32	
direct	10671 Aug 04 23:41	0° \mathfrak{Q} 17'14		morning max el	10672 Jul 31 13:58	20° \mathfrak{E} 26'54	27°50'26
morning max el	10671 Aug 19 06:18	8° \mathfrak{Q} 15'16	27°54'18		10672 Aug 08 19:02	0° \mathfrak{Q}	
	10671 Sep 04 21:31	0° \mathfrak{N}			10672 Aug 27 22:48	0° \mathfrak{N}	
asc. node	10671 Sep 20 23:21	29° \mathfrak{N} 20'06		morning set	10672 Sep 04 00:55	13° \mathfrak{N} 35'35	
morning set	10671 Sep 21 03:43	29° \mathfrak{N} 42'48		asc. node	10672 Sep 06 20:09	19° \mathfrak{N} 20'15	
	10671 Sep 21 07:02	0° \mathfrak{L}		max. Earth dist.	10672 Sep 09 04:49	24° \mathfrak{N} 19'29	1.32297 AU
max. Earth dist.	10671 Sep 27 01:28	12° \mathfrak{L} 22'42	1.31615 AU				

superior conj	10672 Sep 11 18:21	29° \mathbb{M} 51'17	0°47'12	max. Earth dist.	10673 Aug 22 23:53	5° \mathbb{M} 53'26	1.33486 AU
minimum elong	10672 Sep 11 16:23	29° \mathbb{M} 40'38	0°46'46	asc. node	10673 Aug 24 16:57	9° \mathbb{M} 25'06	
	10672 Sep 11 19:57	0° \mathbb{L}					
evening rise	10672 Sep 18 15:10	14° \mathbb{L} 48'40		superior conj	10673 Aug 26 21:28	14° \mathbb{M} 00'36	0°21'27
	10672 Sep 26 03:16	0° \mathbb{M}		minimum elong	10673 Aug 26 20:24	13° \mathbb{M} 54'59	0°21'01
desc. node	10672 Oct 10 13:51	21° \mathbb{M} 30'06		evening rise	10673 Sep 03 02:02	29° \mathbb{M} 21'30	
evening max el	10672 Oct 12 09:29	23° \mathbb{M} 21'36	23°40'03		10673 Sep 03 09:19	0° \mathbb{L}	
	10672 Oct 24 05:21	0° \mathbb{X}			10673 Sep 20 17:44	0° \mathbb{M}	
retrograde	10672 Oct 25 22:01	0° \mathbb{X} 06'31		evening max el	10673 Sep 23 22:06	3° \mathbb{M} 29'10	22°00'12
	10672 Oct 27 15:00	30° \mathbb{R} \mathbb{M}		desc. node	10673 Sep 27 11:07	6° \mathbb{M} 30'06	
evening set	10672 Oct 30 11:02	29° \mathbb{M} 21'36		retrograde	10673 Oct 06 13:38	9° \mathbb{M} 46'52	
min. Earth dist.	10672 Nov 05 19:41	26° \mathbb{M} 18'58	0.55623 AU	evening set	10673 Oct 09 15:36	9° \mathbb{M} 25'38	
inferior conj	10672 Nov 07 18:15	25° \mathbb{M} 09'48	-5°46'02	min. Earth dist.	10673 Oct 18 02:39	5° \mathbb{M} 43'11	0.54717 AU
minimum elong	10672 Nov 07 19:04	25° \mathbb{M} 08'35	5°45'36	inferior conj	10673 Oct 18 14:08	5° \mathbb{M} 27'06	-5°23'02
morning rise	10672 Nov 16 04:58	21° \mathbb{M} 15'46		minimum elong	10673 Oct 18 06:54	5° \mathbb{M} 37'14	5°21'39
direct	10672 Nov 19 00:15	20° \mathbb{M} 56'15		morning rise	10673 Oct 26 23:38	1° \mathbb{M} 40'01	
morning max el	10672 Nov 29 13:13	25° \mathbb{M} 55'46	20°13'47	direct	10673 Oct 30 11:17	1° \mathbb{M} 13'16	
	10672 Dec 03 05:27	0° \mathbb{X}		morning max el	10673 Nov 11 13:13	6° \mathbb{M} 56'13	21°44'40
asc. node	10672 Dec 03 20:31	0° \mathbb{X} 48'29		asc. node	10673 Nov 20 17:28	18° \mathbb{M} 31'42	
morning set	10672 Dec 17 21:39	25° \mathbb{X} 32'00			10673 Nov 27 05:30	0° \mathbb{X}	
	10672 Dec 20 01:51	0° \mathbb{Z}		morning set	10673 Dec 02 07:25	10° \mathbb{X} 17'37	
superior conj	10672 Dec 25 12:35	11° \mathbb{Z} 08'23	1°23'06	superior conj	10673 Dec 09 11:26	25° \mathbb{X} 26'55	1°34'47
minimum elong	10672 Dec 25 15:07	11° \mathbb{Z} 21'11	1°23'23	minimum elong	10673 Dec 09 12:55	25° \mathbb{X} 34'39	1°35'15
max. Earth dist.	10672 Dec 31 03:00	22° \mathbb{Z} 07'13	1.36653 AU		10673 Dec 11 16:02	0° \mathbb{Z}	
evening rise	10673 Jan 03 22:05	29° \mathbb{Z} 10'38		max. Earth dist.	10673 Dec 13 15:11	3° \mathbb{Z} 59'58	1.34734 AU
	10673 Jan 04 08:59	0° \mathbb{X}		evening rise	10673 Dec 17 21:08	12° \mathbb{Z} 20'23	
desc. node	10673 Jan 06 12:27	3° \mathbb{X} 49'24		desc. node	10673 Dec 24 09:23	24° \mathbb{Z} 14'09	
	10673 Jan 22 23:11	0° \mathbb{X}			10673 Dec 27 18:34	0° \mathbb{X}	
evening max el	10673 Feb 08 11:38	20° \mathbb{X} 24'12	25°49'22		10674 Jan 18 02:24	0° \mathbb{X}	
retrograde	10673 Feb 20 23:15	27° \mathbb{X} 33'05		evening max el	10674 Jan 22 01:02	4° \mathbb{X} 07'08	26°46'56
evening set	10673 Feb 27 00:13	25° \mathbb{X} 04'43		retrograde	10674 Feb 04 04:42	11° \mathbb{X} 28'15	
asc. node	10673 Mar 01 19:06	22° \mathbb{X} 16'52		evening set	10674 Feb 10 16:39	8° \mathbb{X} 54'34	
min. Earth dist.	10673 Mar 03 06:55	20° \mathbb{X} 29'05	0.67282 AU	min. Earth dist.	10674 Feb 14 17:27	4° \mathbb{X} 53'13	0.66032 AU
inferior conj	10673 Mar 04 18:31	18° \mathbb{X} 36'48	0°56'57	inferior conj	10674 Feb 16 16:59	2° \mathbb{X} 34'07	0°00'33
minimum elong	10673 Mar 04 17:09	18° \mathbb{X} 41'05	0°56'36	minimum elong	10674 Feb 16 16:57	2° \mathbb{X} 34'12	0°00'50
morning rise	10673 Mar 10 10:39	12° \mathbb{X} 47'12		transit middle	10674 Feb 16 16:57	2° \mathbb{X} 34'12	0°00'50
direct	10673 Mar 13 17:58	11° \mathbb{X} 44'46		transit begin	10674 Feb 16 14:01	2° \mathbb{X} 42'50	
morning max el	10673 Mar 20 12:29	15° \mathbb{X} 25'23	18°54'10	transit end	10674 Feb 16 19:54	2° \mathbb{X} 25'35	
	10673 Mar 31 14:55	0° \mathbb{Y}		asc. node	10674 Feb 16 16:19	2° \mathbb{X} 36'04	
greatest brilliancy	10673 Apr 03 13:12	4° \mathbb{Y} 25'51	-0.8m		10674 Feb 18 23:45	30° \mathbb{R} \mathbb{X}	
desc. node	10673 Apr 04 13:11	5° \mathbb{Y} 57'36		morning rise	10674 Feb 22 18:26	26° \mathbb{X} 55'46	
morning set	10673 Apr 11 23:54	17° \mathbb{Y} 29'15		direct	10674 Feb 25 15:31	26° \mathbb{X} 10'05	
	10673 Apr 20 00:47	0° \mathbb{Z}		morning max el	10674 Mar 04 02:01	29° \mathbb{X} 35'04	18°14'45
max. Earth dist.	10673 Apr 26 12:28	10° \mathbb{Z} 08'10	1.45434 AU		10674 Mar 04 11:58	0° \mathbb{X}	
superior conj	10673 Apr 28 10:32	13° \mathbb{Z} 09'01	-2°07'43	desc. node	10674 Mar 22 09:54	26° \mathbb{X} 13'42	
minimum elong	10673 Apr 28 05:05	12° \mathbb{Z} 47'34	2°07'50	morning set	10674 Mar 23 08:22	27° \mathbb{X} 44'00	
	10673 May 09 01:08	0° \mathbb{I}			10674 Mar 24 18:15	0° \mathbb{Y}	
evening rise	10673 May 13 12:16	7° \mathbb{I} 12'07		superior conj	10674 Apr 07 16:47	22° \mathbb{Y} 05'32	-1°43'07
	10673 May 27 22:34	0° \mathbb{L}		minimum elong	10674 Apr 07 07:17	21° \mathbb{Y} 28'20	1°42'24
asc. node	10673 May 28 17:09	1° \mathbb{L} 05'50		max. Earth dist.	10674 Apr 09 08:00	24° \mathbb{Y} 39'03	1.45656 AU
evening max el	10673 Jun 02 19:07	7° \mathbb{L} 18'49	18°31'09		10674 Apr 12 18:12	0° \mathbb{Z}	
retrograde	10673 Jun 09 06:34	10° \mathbb{L} 49'18		evening rise	10674 Apr 23 17:46	17° \mathbb{Z} 07'38	
evening set	10673 Jun 12 10:26	9° \mathbb{L} 53'03			10674 May 02 00:19	0° \mathbb{I}	
inferior conj	10673 Jun 18 03:45	4° \mathbb{L} 19'41	3°04'29	greatest brilliancy	10674 May 05 00:17	4° \mathbb{I} 35'51	-0.7m
minimum elong	10673 Jun 18 05:23	4° \mathbb{L} 14'47	3°03'42	asc. node	10674 May 15 14:16	19° \mathbb{I} 15'52	
min. Earth dist.	10673 Jun 20 06:29	1° \mathbb{L} 47'47	0.65021 AU	evening max el	10674 May 17 04:19	20° \mathbb{I} 58'14	19°10'43
	10673 Jun 21 21:03	30° \mathbb{R} \mathbb{I}		retrograde	10674 May 24 02:56	24° \mathbb{I} 51'26	
morning rise	10673 Jun 23 23:23	28° \mathbb{I} 00'19		evening set	10674 May 27 15:04	23° \mathbb{I} 39'53	
direct	10673 Jun 30 12:47	25° \mathbb{I} 17'51		inferior conj	10674 Jun 02 02:00	17° \mathbb{I} 51'24	3°16'46
desc. node	10673 Jul 01 13:17	25° \mathbb{I} 21'25		minimum elong	10674 Jun 02 02:27	17° \mathbb{I} 49'55	3°16'13
	10673 Jul 10 12:56	0° \mathbb{L}		min. Earth dist.	10674 Jun 03 13:44	15° \mathbb{I} 56'00	0.66603 AU
morning max el	10673 Jul 14 00:29	3° \mathbb{L} 13'46	27°12'06	morning rise	10674 Jun 07 13:19	11° \mathbb{I} 30'13	
	10673 Aug 03 03:51	0° \mathbb{O}		direct	10674 Jun 13 18:22	8° \mathbb{I} 47'38	
morning set	10673 Aug 18 12:46	26° \mathbb{O} 59'44		desc. node	10674 Jun 18 10:18	10° \mathbb{I} 02'33	
	10673 Aug 20 01:36	0° \mathbb{M}		morning max el	10674 Jun 26 11:16	16° \mathbb{I} 23'08	26°07'01

	10674 Jul 07 17:47	0°☿		desc. node	10675 Jun 05 07:18	26°☿26'56	
	10674 Jul 27 01:15	0°♊		morning max el	10675 Jun 08 20:59	29°☿44'05	24°44'36
morning set	10674 Aug 01 11:51	9°♊46'30			10675 Jun 09 03:14	0°♊	
max. Earth dist.	10674 Aug 05 08:25	17°♊05'00	1.35154 AU		10675 Jul 01 14:03	0°☿	
				morning set	10675 Jul 14 17:37	21°☿43'20	
superior conj	10674 Aug 10 17:10	27°♊45'30	-0°08'24	max. Earth dist.	10675 Jul 18 07:50	28°☿10'10	1.37227 AU
minimum elong	10674 Aug 10 17:40	27°♊48'04	0°08'38		10675 Jul 19 07:45	0°♊	
behind sun begin	10674 Aug 10 12:32	27°♊21'56					
behind sun end	10674 Aug 10 22:48	28°♊14'15		superior conj	10675 Jul 25 02:20	10°♊57'30	-0°41'03
asc. node	10674 Aug 11 13:47	29°♊30'53		minimum elong	10675 Jul 25 05:00	11°♊10'30	0°40'59
	10674 Aug 11 19:27	0°♎		asc. node	10675 Jul 29 10:38	19°♊33'08	
evening rise	10674 Aug 18 10:19	13°♎44'26		evening rise	10675 Aug 02 13:38	27°♊50'06	
	10674 Aug 26 18:57	0°♏			10675 Aug 03 15:39	0°♎	
evening max el	10674 Sep 05 21:17	14°♏05'12	20°32'32	evening max el	10675 Aug 19 10:21	25°♎26'38	19°24'24
desc. node	10674 Sep 14 08:25	19°♏18'59			10675 Aug 27 04:12	0°♏	
retrograde	10674 Sep 17 01:41	19°♏38'13		retrograde	10675 Aug 28 21:52	0°♏09'11	
evening set	10674 Sep 19 04:01	19°♏27'20		evening set	10675 Aug 30 18:02	29°♎59'19	
inferior conj	10674 Sep 28 06:45	15°♏30'54	-4°04'29		10675 Aug 30 16:26	30°♎	
minimum elong	10674 Sep 27 20:58	15°♏45'05	4°01'26	desc. node	10675 Sep 01 05:42	29°♎37'44	
min. Earth dist.	10674 Sep 29 11:07	14°♏49'50	0.54725 AU	inferior conj	10675 Sep 08 10:17	25°♎52'19	-2°13'48
morning rise	10674 Oct 06 13:31	11°♏29'54		minimum elong	10675 Sep 08 04:19	26°♎01'58	2°11'37
direct	10674 Oct 10 19:46	10°♏50'54		min. Earth dist.	10675 Sep 10 22:49	24°♎14'27	0.55673 AU
morning max el	10674 Oct 24 03:19	17°♏17'46	23°29'49	morning rise	10675 Sep 16 12:04	21°♎19'58	
	10674 Nov 03 08:32	0°♐		direct	10675 Sep 21 14:09	20°♎21'23	
asc. node	10674 Nov 07 14:21	7°♐00'14		morning max el	10675 Oct 05 14:38	27°♎25'09	25°15'04
morning set	10674 Nov 16 19:00	25°♐05'47			10675 Oct 08 03:24	0°♏	
	10674 Nov 19 01:47	0°♑		asc. node	10675 Oct 25 11:14	26°♏02'11	
					10675 Oct 27 12:15	0°♐	
superior conj	10674 Nov 23 16:53	10°♑02'41	1°39'35	morning set	10675 Nov 01 06:37	9°♐50'44	
minimum elong	10674 Nov 23 17:09	10°♑04'11	1°40'05				
max. Earth dist.	10674 Nov 26 11:05	15°♑56'45	1.33212 AU	superior conj	10675 Nov 08 02:22	24°♐47'20	1°38'05
evening rise	10674 Dec 01 08:59	26°♑03'17		minimum elong	10675 Nov 08 01:33	24°♐42'47	1°38'29
	10674 Dec 03 09:08	0°♒		max. Earth dist.	10675 Nov 09 14:27	28°♐05'27	1.32150 AU
desc. node	10674 Dec 11 06:25	14°♒23'38			10675 Nov 10 11:26	0°♑	
	10674 Dec 21 03:53	0°♓		evening rise	10675 Nov 15 06:18	10°♑10'05	
evening max el	10675 Jan 04 13:51	17°♓33'45	27°22'40		10675 Nov 25 16:29	0°♒	
retrograde	10675 Jan 18 04:02	24°♓57'15		desc. node	10675 Nov 28 03:31	4°♒10'22	
evening set	10675 Jan 25 00:20	22°♓24'50			10675 Dec 17 11:08	0°♓	
min. Earth dist.	10675 Jan 28 20:22	18°♓55'41	0.64429 AU	evening max el	10675 Dec 18 00:26	0°♓31'55	27°30'00
inferior conj	10675 Jan 31 07:25	16°♓18'16	-1°04'40	retrograde	10675 Dec 31 20:13	7°♓50'27	
minimum elong	10675 Jan 31 09:25	16°♓12'56	1°03'26	evening set	10676 Jan 07 20:28	5°♓27'35	
asc. node	10675 Feb 03 13:30	13°♓04'21		min. Earth dist.	10676 Jan 11 13:52	2°♓26'19	0.62534 AU
morning rise	10675 Feb 06 20:20	10°♓53'36		inferior conj	10676 Jan 14 10:55	29°♒41'50	-2°17'12
direct	10675 Feb 09 08:57	10°♓20'57		minimum elong	10676 Jan 14 15:29	29°♒30'56	2°14'54
morning max el	10675 Feb 15 19:01	13°♓41'26	17°52'17		10676 Jan 14 03:21	30°♒	
	10675 Feb 27 06:57	0°♈		asc. node	10676 Jan 21 10:40	24°♒35'38	
morning set	10675 Mar 04 21:46	9°♈23'37		morning rise	10676 Jan 21 12:53	24°♒33'43	
desc. node	10675 Mar 09 06:38	16°♈42'16		direct	10676 Jan 23 19:16	24°♒10'14	
	10675 Mar 17 09:30	0°♉		morning max el	10676 Jan 30 12:25	27°♒35'58	17°47'26
					10676 Feb 01 16:23	0°♓	
superior conj	10675 Mar 18 09:57	1°♉38'19	-1°04'38	morning set	10676 Feb 15 10:59	22°♓11'39	
minimum elong	10675 Mar 18 02:56	1°♉10'06	1°03'41		10676 Feb 19 21:39	0°♈	
max. Earth dist.	10675 Mar 23 03:12	9°♉08'37	1.45136 AU	desc. node	10676 Feb 24 03:26	7°♈19'03	
evening rise	10675 Apr 03 07:37	26°♉31'08					
	10675 Apr 05 14:12	0°♊		superior conj	10676 Feb 27 01:57	12°♈17'07	-0°22'05
greatest brilliancy	10675 Apr 18 08:15	19°♊06'56	-0.6m	minimum elong	10676 Feb 26 23:46	12°♈07'59	0°21'31
	10675 Apr 26 06:24	0°♋		max. Earth dist.	10676 Mar 04 20:11	23°♈23'08	1.43935 AU
evening max el	10675 Apr 30 08:25	4°♋40'37	20°06'02		10676 Mar 08 23:53	0°♉	
asc. node	10675 May 02 11:25	6°♋37'41		evening rise	10676 Mar 12 20:33	6°♉01'28	
retrograde	10675 May 08 01:25	9°♋06'56			10676 Mar 28 22:12	0°♊	
evening set	10675 May 11 22:36	7°♋39'39		evening max el	10676 Apr 12 07:00	18°♊24'48	21°14'20
inferior conj	10675 May 17 06:09	1°♋37'44	3°15'25	asc. node	10676 Apr 18 08:37	22°♊57'20	
minimum elong	10675 May 17 05:31	1°♋39'55	3°14'55	retrograde	10676 Apr 20 23:56	23°♊31'17	
min. Earth dist.	10675 May 18 03:31	0°♋25'18	0.67749 AU	evening set	10676 Apr 25 07:09	21°♊48'17	
	10675 May 18 11:02	30°♋		inferior conj	10676 Apr 30 13:50	15°♊34'46	3°02'36
morning rise	10675 May 22 12:07	25°♊18'25		minimum elong	10676 Apr 30 12:19	15°♊40'00	3°02'01
direct	10675 May 28 05:50	22°♊45'13		min. Earth dist.	10676 Apr 30 21:41	15°♊07'29	0.68435 AU

morning rise	10676 May 05 17:17	9°♄19'34	direct	10677 Apr 24 17:49	21°♄32'26	
direct	10676 May 10 22:03	7°♄02'49	morning max el	10677 May 03 19:49	26°♄49'54	21°47'34
morning max el	10676 May 21 06:49	13°♄12'41 23°15'04		10677 May 06 18:13	0°♄	
desc. node	10676 May 22 04:14	14°♄07'56	desc. node	10677 May 09 01:06	2°♄44'01	
	10676 Jun 03 19:19	0°♄		10677 May 28 08:19	0°♄	
	10676 Jun 23 11:05	0°♄	morning set	10677 Jun 05 06:04	12°♄19'51	
morning set	10676 Jun 25 01:00	2°♄37'33	max. Earth dist.	10677 Jun 11 05:34	22°♄03'43	1.41742 AU
max. Earth dist.	10676 Jun 29 04:39	9°♄41'48 1.39517 AU		10677 Jun 15 22:30	0°♄	
superior conj	10676 Jul 06 21:09	23°♄27'53 -1°14'18	superior conj	10677 Jun 18 21:01	5°♄05'28 -1°44'31	
minimum elong	10676 Jul 07 02:10	23°♄51'07 1°14'03	minimum elong	10677 Jun 19 03:28	5°♄33'44 1°44'24	
	10676 Jul 10 08:53	0°♄	evening rise	10677 Jun 29 16:53	24°♄38'25	
asc. node	10676 Jul 15 07:33	9°♄28'23	asc. node	10677 Jul 02 04:29	29°♄11'49	
evening rise	10676 Jul 16 09:05	11°♄31'25		10677 Jul 02 15:03	0°♄	
	10676 Jul 26 15:06	0°♄	evening max el	10677 Jul 15 20:14	20°♄15'17 18°11'09	
evening max el	10676 Aug 01 11:20	7°♄33'01 18°37'28	retrograde	10677 Jul 22 20:45	23°♄48'49	
retrograde	10676 Aug 09 11:47	11°♄33'43	evening set	10677 Jul 25 04:11	23°♄26'17	
evening set	10676 Aug 11 11:59	11°♄19'29	inferior conj	10677 Aug 01 06:59	18°♄39'21 1°05'38	
desc. node	10676 Aug 18 02:58	7°♄50'49	minimum elong	10677 Aug 01 08:59	18°♄34'55 1°04'32	
inferior conj	10676 Aug 19 09:48	6°♄53'21 -0°23'48	min. Earth dist.	10677 Aug 04 14:55	15°♄43'47 0.59521 AU	
minimum elong	10676 Aug 19 08:51	6°♄55'09 0°23'41	desc. node	10677 Aug 05 00:13	15°♄24'30	
min. Earth dist.	10676 Aug 22 15:20	4°♄27'37 0.57377 AU	morning rise	10677 Aug 08 10:37	12°♄57'17	
morning rise	10676 Aug 27 02:16	1°♄43'43	direct	10677 Aug 14 20:13	11°♄02'57	
direct	10676 Sep 01 22:35	0°♄18'43	morning max el	10677 Aug 29 04:44	18°♄53'15 27°39'14	
morning max el	10676 Sep 16 06:03	7°♄49'38 26°42'55		10677 Sep 07 14:07	0°♄	
	10676 Oct 02 21:04	0°♄		10677 Sep 25 14:27	0°♄	
asc. node	10676 Oct 11 08:06	15°♄28'57	asc. node	10677 Sep 28 04:56	5°♄13'26	
morning set	10676 Oct 15 16:39	24°♄28'10	morning set	10677 Sep 29 23:20	8°♄53'22	
	10676 Oct 18 06:03	0°♄	max. Earth dist.	10677 Oct 06 08:10	22°♄42'58 1.31456 AU	
superior conj	10676 Oct 22 13:51	9°♄34'41 1°30'46	superior conj	10677 Oct 07 01:28	24°♄19'10 1°17'58	
minimum elong	10676 Oct 22 12:11	9°♄25'21 1°30'56	minimum elong	10677 Oct 06 23:18	24°♄07'07 1°17'51	
max. Earth dist.	10676 Oct 22 22:40	10°♄23'43 1.31565 AU		10677 Oct 09 14:47	0°♄	
evening rise	10676 Oct 29 10:22	24°♄33'34	evening rise	10677 Oct 13 18:52	9°♄07'21	
	10676 Nov 01 01:15	0°♄		10677 Oct 24 10:15	0°♄	
desc. node	10676 Nov 14 00:40	23°♄25'17	desc. node	10677 Oct 31 21:51	11°♄56'00	
	10676 Nov 18 10:48	0°♄	evening max el	10677 Nov 11 04:03	24°♄14'27 26°04'16	
evening max el	10676 Nov 29 06:04	12°♄48'35 27°04'03		10677 Nov 19 07:53	0°♄	
retrograde	10676 Dec 13 03:52	19°♄59'08	retrograde	10677 Nov 25 01:53	1°♄17'40	
evening set	10676 Dec 20 01:29	17°♄54'57		10677 Nov 30 18:40	30°♄17'40	
min. Earth dist.	10676 Dec 23 20:36	15°♄13'33 0.60454 AU	evening set	10677 Dec 01 11:01	29°♄40'53	
inferior conj	10676 Dec 27 00:05	12°♄35'47 -3°33'07	min. Earth dist.	10677 Dec 05 16:52	27°♄05'50 0.58352 AU	
minimum elong	10676 Dec 27 07:09	12°♄20'58 3°30'10	inferior conj	10677 Dec 08 19:26	24°♄50'35 -4°43'55	
morning rise	10677 Jan 03 15:28	7°♄47'33	minimum elong	10677 Dec 09 03:25	24°♄36'04 4°41'25	
direct	10677 Jan 05 18:44	7°♄29'37	morning rise	10677 Dec 16 22:20	20°♄24'56	
asc. node	10677 Jan 07 07:50	7°♄39'22	direct	10677 Dec 19 02:50	20°♄09'14	
morning max el	10677 Jan 13 02:49	11°♄09'31 18°01'11	asc. node	10677 Dec 25 04:56	22°♄19'21	
	10677 Jan 25 13:53	0°♄	morning max el	10677 Dec 27 10:36	24°♄12'40 18°35'10	
morning set	10677 Jan 28 17:31	5°♄47'52		10678 Jan 01 04:51	0°♄	
superior conj	10677 Feb 07 18:39	24°♄05'31 0°17'04	morning set	10678 Jan 12 12:06	19°♄56'57	
minimum elong	10677 Feb 07 20:03	24°♄11'40 0°17'12		10678 Jan 17 16:59	0°♄	
desc. node	10677 Feb 10 00:13	27°♄59'55	superior conj	10678 Jan 21 08:31	6°♄53'41 0°49'04	
	10677 Feb 11 04:01	0°♄	minimum elong	10678 Jan 21 11:27	7°♄07'20 0°49'06	
max. Earth dist.	10677 Feb 15 09:09	7°♄07'37 1.42185 AU	desc. node	10678 Jan 27 21:02	18°♄41'44	
evening rise	10677 Feb 20 22:33	16°♄10'50	max. Earth dist.	10678 Jan 28 17:30	20°♄11'09 1.40083 AU	
	10677 Mar 01 20:47	0°♄	evening rise	10678 Feb 01 21:01	27°♄15'21	
	10677 Mar 23 23:29	0°♄		10678 Feb 03 12:43	0°♄	
evening max el	10677 Mar 26 00:42	2°♄10'05 22°31'28		10678 Feb 23 11:10	0°♄	
retrograde	10677 Apr 04 20:48	7°♄59'04	evening max el	10678 Mar 08 15:11	15°♄57'41 23°51'55	
asc. node	10677 Apr 05 05:52	7°♄58'23	retrograde	10678 Mar 19 14:44	22°♄25'41	
evening set	10677 Apr 09 15:02	6°♄00'52	asc. node	10678 Mar 23 03:06	21°♄27'37	
inferior conj	10677 Apr 14 22:56	29°♄38'13 2°39'36	evening set	10678 Mar 24 20:44	20°♄13'39	
minimum elong	10677 Apr 14 20:53	29°♄45'20 2°38'55	min. Earth dist.	10678 Mar 29 14:35	14°♄43'01 0.68453 AU	
	10677 Apr 14 16:40	30°♄	inferior conj	10678 Mar 30 07:34	13°♄45'10 2°07'05	
min. Earth dist.	10677 Apr 14 18:05	29°♄55'05 0.68664 AU	minimum elong	10678 Mar 30 05:23	13°♄52'36 2°06'21	
morning rise	10677 Apr 20 02:36	23°♄28'32	morning rise	10678 Apr 04 14:04	7°♄42'06	

direct	10678 Apr 08 16:03	6° Υ 07'55		morning rise	10679 Mar 20 01:45	21° X 56'42	
morning max el	10678 Apr 16 15:13	10° Υ 38'57	20°29'06	direct	10679 Mar 23 15:26	20° X 43'25	
desc. node	10678 Apr 25 21:55	22° Υ 00'21		morning max el	10679 Mar 30 18:20	24° X 39'09	19°24'16
	10678 May 01 12:59	0° B			10679 Apr 04 09:52	0° Υ	
morning set	10678 May 15 12:03	21° B 02'14		greatest brilliancy	10679 Apr 12 11:55	11° Υ 20'47	-0.7m
	10678 May 21 05:26	0° II		desc. node	10679 Apr 12 18:41	11° Υ 45'52	
max. Earth dist.	10678 May 24 13:07	5° II 17'59	1.43627 AU	morning set	10679 Apr 24 11:39	29° Υ 33'34	
					10679 Apr 24 18:31	0° B	
superior conj	10678 May 30 21:47	15° II 41'41	-2°06'16	max. Earth dist.	10679 May 07 02:43	19° B 13'22	1.44961 AU
minimum elong	10678 May 31 02:42	16° II 02'05	2°06'33				
	10678 Jun 08 08:02	0° B		superior conj	10679 May 10 22:41	25° B 17'55	-2°12'54
evening rise	10678 Jun 12 08:29	7° B 00'11		minimum elong	10679 May 10 21:35	25° B 13'32	2°13'19
asc. node	10678 Jun 19 01:27	18° B 38'32			10679 May 13 21:08	0° II	
	10678 Jun 26 10:30	0° Ω		evening rise	10679 May 25 03:00	18° II 25'56	
evening max el	10678 Jun 29 09:15	3° Ω 24'03	18°04'22		10679 Jun 01 02:13	0° B	
retrograde	10678 Jul 05 20:59	6° Ω 45'25		asc. node	10679 Jun 05 22:29	7° B 42'24	
evening set	10678 Jul 08 12:16	6° Ω 11'28		evening max el	10679 Jun 12 22:58	16° B 50'50	18°16'17
inferior conj	10678 Jul 14 23:00	1° Ω 05'17	2°09'27	retrograde	10679 Jun 19 07:58	20° B 14'06	
minimum elong	10678 Jul 15 01:46	0° Ω 58'14	2°08'12	evening set	10679 Jun 22 07:09	19° B 26'32	
	10678 Jul 16 00:32	30° R B		inferior conj	10679 Jun 28 05:45	14° B 02'52	2°50'01
min. Earth dist.	10678 Jul 17 23:20	28° B 02'39	0.61792 AU	minimum elong	10679 Jun 28 07:58	13° B 56'32	2°49'03
morning rise	10678 Jul 21 12:58	25° B 01'07		min. Earth dist.	10679 Jun 30 17:08	11° B 14'40	0.63925 AU
desc. node	10678 Jul 22 21:25	24° B 09'52		morning rise	10679 Jul 04 07:23	7° B 46'52	
direct	10678 Jul 28 05:15	22° B 40'36		desc. node	10679 Jul 09 18:33	5° B 13'53	
	10678 Aug 10 16:44	0° Ω		direct	10679 Jul 10 23:40	5° B 08'56	
morning max el	10678 Aug 11 09:58	0° Ω 42'16	27°57'16	morning max el	10679 Jul 24 19:12	13° B 11'01	27°37'57
	10678 Sep 01 17:48	0° B			10679 Aug 07 07:13	0° Ω	
morning set	10678 Sep 14 00:40	23° B 00'15			10679 Aug 25 07:12	0° B	
asc. node	10678 Sep 15 01:42	25° B 09'30		morning set	10679 Aug 28 18:18	6° B 42'49	
	10678 Sep 17 08:51	0° B		asc. node	10679 Sep 01 22:29	15° B 12'48	
max. Earth dist.	10678 Sep 19 14:51	4° B 51'04	1.31842 AU	max. Earth dist.	10679 Sep 02 14:54	16° B 38'38	1.32737 AU
superior conj	10678 Sep 21 11:21	8° B 54'38	0°59'53	superior conj	10679 Sep 05 17:36	23° B 15'57	0°36'50
minimum elong	10678 Sep 21 09:10	8° B 42'35	0°59'32	minimum elong	10679 Sep 05 15:56	23° B 07'01	0°36'24
evening rise	10678 Sep 28 05:44	23° B 44'58			10679 Sep 08 20:15	0° B	
	10678 Oct 01 04:49	0° B		evening rise	10679 Sep 12 17:09	8° B 21'32	
desc. node	10678 Oct 18 19:04	29° B 24'29			10679 Sep 23 21:43	0° B	
	10678 Oct 19 06:42	0° X		evening max el	10679 Oct 05 04:33	14° B 59'17	22°56'57
evening max el	10678 Oct 23 17:54	4° X 50'33	24°37'08	desc. node	10679 Oct 05 16:19	15° B 27'24	
retrograde	10678 Nov 06 12:32	11° X 45'09		retrograde	10679 Oct 18 10:26	21° B 35'00	
evening set	10678 Nov 11 20:41	10° X 41'41		evening set	10679 Oct 22 07:50	21° B 01'59	
min. Earth dist.	10678 Nov 17 05:13	7° X 54'20	0.56475 AU	min. Earth dist.	10679 Oct 29 13:26	17° B 44'03	0.55138 AU
inferior conj	10678 Nov 19 18:22	6° X 17'21	-5°34'26	inferior conj	10679 Oct 30 22:12	16° B 56'57	-5°43'31
minimum elong	10678 Nov 19 23:15	6° X 09'35	5°33'25	minimum elong	10679 Oct 30 19:25	17° B 00'59	5°42'58
morning rise	10678 Nov 28 04:01	2° X 13'33		morning rise	10679 Nov 08 08:41	13° B 07'36	
direct	10678 Nov 30 15:42	1° X 56'42		direct	10679 Nov 11 10:19	12° B 45'34	
morning max el	10678 Dec 10 07:51	6° X 33'28	19°31'12	morning max el	10679 Nov 22 15:40	18° B 03'45	20°49'56
asc. node	10678 Dec 12 01:58	8° X 23'01		asc. node	10679 Nov 28 22:57	25° B 34'38	
	10678 Dec 25 09:14	0° B			10679 Dec 01 20:08	0° X	
morning set	10678 Dec 27 14:45	4° B 26'25		morning set	10679 Dec 11 22:36	19° X 08'11	
					10679 Dec 17 03:43	0° B	
superior conj	10679 Jan 04 14:31	20° B 26'27	1°12'57	superior conj	10679 Dec 19 08:17	4° B 31'25	1°28'55
minimum elong	10679 Jan 04 17:28	20° B 40'54	1°13'08	minimum elong	10679 Dec 19 10:25	4° B 42'19	1°29'18
	10679 Jan 09 14:18	0° \approx		max. Earth dist.	10679 Dec 24 07:44	14° B 29'36	1.35800 AU
max. Earth dist.	10679 Jan 10 23:18	2° \approx 32'47	1.37872 AU	evening rise	10679 Dec 28 06:51	22° B 02'16	
evening rise	10679 Jan 14 16:40	9° \approx 14'53		desc. node	10680 Jan 01 14:47	29° B 51'29	
desc. node	10679 Jan 14 17:53	9° \approx 20'14			10680 Jan 01 16:44	0° \approx	
	10679 Jan 27 07:54	0° X			10680 Jan 21 03:28	0° X	
evening max el	10679 Feb 19 04:27	29° X 47'03	25°09'14	evening max el	10680 Feb 01 17:56	13° X 35'10	26°16'09
	10679 Feb 19 09:45	0° Υ		retrograde	10680 Feb 14 13:23	20° X 50'54	
retrograde	10679 Mar 03 04:36	6° Υ 45'03		evening set	10680 Feb 20 19:04	18° X 19'52	
evening set	10679 Mar 08 22:38	4° Υ 21'40		asc. node	10680 Feb 24 21:36	14° X 03'27	
asc. node	10679 Mar 10 00:21	3° Υ 22'21		min. Earth dist.	10680 Feb 24 23:12	13° X 58'39	0.66791 AU
	10679 Mar 12 22:26	30° R X		inferior conj	10680 Feb 26 15:49	11° X 54'09	0°34'09
min. Earth dist.	10679 Mar 13 09:02	29° X 25'54	0.67819 AU	minimum elong	10680 Feb 26 14:56	11° X 56'50	0°34'01
inferior conj	10679 Mar 14 13:51	27° X 51'49	1°25'16	morning rise	10680 Mar 03 11:36	6° X 08'48	
minimum elong	10679 Mar 14 12:01	27° X 57'46	1°24'41				

direct	10680 Mar 06 14:19	5° H 13'55			10681 Feb 05 15:04	30° R	
morning max el	10680 Mar 13 04:33	8° H 46'44	18°35'16	min. Earth dist.	10681 Feb 07 06:51	28° R 15'09	0.65391 AU
	10680 Mar 28 10:38	0° Y		inferior conj	10681 Feb 09 11:15	25° R 47'26	-0°26'04
desc. node	10680 Mar 29 15:26	1° Y 52'40		minimum elong	10681 Feb 09 12:00	25° R 45'19	0°25'25
morning set	10680 Apr 03 04:05	8° Y 59'35		asc. node	10681 Feb 10 18:49	24° R 19'43	
	10680 Apr 16 13:35	0° B		morning rise	10681 Feb 15 17:18	20° R 14'19	
				direct	10681 Feb 18 10:38	19° R 34'30	
superior conj	10680 Apr 19 07:05	4° B 16'08	-1°59'31	morning max el	10681 Feb 24 19:55	22° R 56'11	18°03'04
minimum elong	10680 Apr 18 23:06	3° B 44'52	1°59'18		10681 Mar 02 12:36	0° H	
max. Earth dist.	10680 Apr 18 20:48	3° B 35'54	1.45615 AU	morning set	10681 Mar 15 01:19	19° H 52'40	
evening rise	10680 May 04 21:26	28° B 51'12		desc. node	10681 Mar 16 12:11	22° H 15'09	
	10680 May 05 14:43	0° II			10681 Mar 21 06:41	0° Y	
greatest brilliancy	10680 May 13 04:02	12° II 00'02	-0.8m				
asc. node	10680 May 22 19:35	26° II 14'55		superior conj	10681 Mar 29 15:53	13° Y 22'45	-1°27'55
	10680 May 25 23:48	0° E		minimum elong	10681 Mar 29 06:48	12° Y 46'52	1°26'59
evening max el	10680 May 26 10:32	0° E 27'29	18°46'04	max. Earth dist.	10681 Apr 01 17:03	18° Y 10'26	1.45526 AU
retrograde	10680 Jun 02 01:43	4° E 05'56			10681 Apr 09 07:09	0° B	
evening set	10680 Jun 05 09:04	3° E 03'15		evening rise	10681 Apr 14 18:54	8° B 29'42	
	10680 Jun 08 18:53	30° R II		greatest brilliancy	10681 Apr 27 23:46	28° B 38'48	-0.7m
inferior conj	10680 Jun 10 23:16	27° II 23'34	3°11'32		10681 Apr 28 21:43	0° II	
minimum elong	10680 Jun 11 00:25	27° II 20'01	3°10'51	evening max el	10681 May 09 17:48	14° II 09'03	19°32'30
min. Earth dist.	10680 Jun 12 19:41	25° II 05'56	0.65744 AU	asc. node	10681 May 09 16:44	14° II 06'20	
morning rise	10680 Jun 16 15:02	21° II 03'04		retrograde	10681 May 16 23:14	18° II 14'46	
direct	10680 Jun 23 01:30	18° II 19'02		evening set	10681 May 20 15:13	16° II 56'21	
desc. node	10680 Jun 25 15:38	18° II 42'05		inferior conj	10681 May 26 00:21	11° II 01'57	3°17'41
morning max el	10680 Jul 06 05:47	26° II 07'57	26°47'10	minimum elong	10681 May 26 00:20	11° II 02'03	3°17'11
	10680 Jul 09 19:20	0° E		min. Earth dist.	10681 May 27 05:49	9° II 24'35	0.67149 AU
	10680 Jul 30 20:54	0° O		morning rise	10681 May 31 09:04	4° II 41'30	
morning set	10680 Aug 11 01:10	19° O 52'17		direct	10681 Jun 06 09:38	2° II 02'03	
max. Earth dist.	10680 Aug 15 05:21	28° O 01'14	1.34140 AU	desc. node	10681 Jun 12 12:41	4° II 10'52	
	10680 Aug 16 04:59	0° np		morning max el	10681 Jun 18 16:05	9° II 22'57	25°33'31
asc. node	10680 Aug 18 19:17	5° np 18'38			10681 Jul 04 22:00	0° E	
					10681 Jul 23 10:37	0° O	
superior conj	10680 Aug 19 17:54	7° np 16'07	0°09'16	morning set	10681 Jul 24 17:26	2° O 18'51	
minimum elong	10680 Aug 19 17:26	7° np 13'36	0°08'55	max. Earth dist.	10681 Jul 28 09:43	9° O 07'44	1.36001 AU
behind sun begin	10680 Aug 19 12:36	6° np 48'29					
behind sun end	10680 Aug 19 22:15	7° np 38'45		superior conj	10681 Aug 03 09:33	20° O 47'59	-0°21'59
evening rise	10680 Aug 27 03:10	22° np 50'58		minimum elong	10681 Aug 03 10:54	20° O 54'48	0°22'06
	10680 Aug 30 14:32	0° A		asc. node	10681 Aug 05 16:07	25° O 23'20	
evening max el	10680 Sep 15 20:58	25° A 16'07	21°20'49		10681 Aug 07 22:17	0° np	
desc. node	10680 Sep 21 13:35	29° A 35'30		evening rise	10681 Aug 11 09:40	7° np 07'29	
	10680 Sep 22 09:28	0° ml			10681 Aug 24 00:31	0° A	
retrograde	10680 Sep 27 22:43	1° ml 15'40		evening max el	10681 Aug 29 01:59	6° A 10'12	20°00'54
evening set	10680 Sep 30 12:36	1° ml 00'21		desc. node	10681 Sep 08 10:53	11° A 21'29	
	10680 Oct 03 20:16	30° R II		retrograde	10681 Sep 08 12:40	11° A 21'30	
inferior conj	10680 Oct 09 14:54	27° A 04'43	-4°55'39	evening set	10681 Sep 10 10:45	11° A 11'45	
minimum elong	10680 Oct 09 05:36	27° A 17'44	4°53'22	inferior conj	10681 Sep 19 10:30	7° A 11'55	-3°19'21
min. Earth dist.	10680 Oct 09 20:43	26° A 56'33	0.54611 AU	minimum elong	10681 Sep 19 01:50	7° A 24'58	3°16'22
morning rise	10680 Oct 17 23:20	23° A 14'17		min. Earth dist.	10681 Sep 21 05:56	6° A 06'34	0.55025 AU
direct	10680 Oct 21 19:03	22° A 42'46		morning rise	10681 Sep 27 15:40	2° A 59'35	
morning max el	10680 Nov 03 10:34	28° A 44'50	22°28'13	direct	10681 Oct 02 06:23	2° A 13'20	
	10680 Nov 04 17:13	0° ml		morning max el	10681 Oct 15 22:23	8° A 56'05	24°15'40
asc. node	10680 Nov 14 19:52	13° ml 38'53			10681 Oct 31 08:52	0° ml	
	10680 Nov 23 12:15	0° A		asc. node	10681 Nov 01 16:45	2° ml 23'03	
morning set	10680 Nov 25 09:24	3° A 55'50		morning set	10681 Nov 09 21:13	18° ml 43'36	
					10681 Nov 15 01:41	0° A	
superior conj	10680 Dec 02 10:17	18° A 58'23	1°37'36				
minimum elong	10680 Dec 02 11:16	19° A 03'32	1°38'07	superior conj	10681 Nov 16 17:43	3° A 38'49	1°39'41
max. Earth dist.	10680 Dec 05 23:18	26° A 23'41	1.34041 AU	minimum elong	10681 Nov 16 17:30	3° A 37'39	1°40'09
	10680 Dec 07 17:44	0° B		max. Earth dist.	10681 Nov 18 22:52	8° A 26'46	1.32707 AU
evening rise	10680 Dec 10 11:50	5° B 27'48		evening rise	10681 Nov 24 04:03	19° A 21'51	
desc. node	10680 Dec 18 11:47	20° B 10'52			10681 Nov 29 15:11	0° B	
	10680 Dec 24 09:55	0° R		desc. node	10681 Dec 05 08:50	10° B 11'53	
evening max el	10681 Jan 14 07:32	27° R 13'58	27°05'17		10681 Dec 18 13:53	0° R	
	10681 Jan 17 10:29	0° H		evening max el	10681 Dec 27 19:42	10° R 30'19	27°29'33
retrograde	10681 Jan 27 16:14	4° H 36'20		retrograde	10682 Jan 10 12:23	17° R 51'44	
evening set	10681 Feb 03 08:05	2° H 02'40		evening set	10682 Jan 17 11:14	15° R 22'14	

min. Earth dist.	10682 Jan 21 05:49	12°≈05'53	0.63659 AU	evening set	10682 Dec 31 01:28	28°≈11'25	
inferior conj	10682 Jan 23 21:26	9°≈24'03	-1°34'42	min. Earth dist.	10683 Jan 03 18:39	25°≈20'10	0.61669 AU
minimum elong	10682 Jan 24 00:28	9°≈16'18	1°32'59	inferior conj	10683 Jan 06 19:16	22°≈36'20	-2°49'21
asc. node	10682 Jan 28 16:02	5°≈09'37		minimum elong	10683 Jan 07 00:58	22°≈23'27	2°46'40
morning rise	10682 Jan 30 15:46	4°≈06'08		morning rise	10683 Jan 14 03:03	17°≈36'40	
direct	10682 Feb 02 01:31	3°≈37'45		asc. node	10683 Jan 15 13:11	17°≈18'37	
morning max el	10682 Feb 08 13:30	6°≈58'55	17°48'04	direct	10683 Jan 16 07:38	17°≈16'02	
	10682 Feb 23 20:41	0°≈		morning max el	10683 Jan 23 06:09	20°≈46'30	17°50'55
morning set	10682 Feb 25 01:39	2°≈04'12			10683 Jan 30 04:33	0°≈	
desc. node	10682 Mar 03 08:57	12°≈47'55		morning set	10683 Feb 07 22:56	15°≈14'49	
					10683 Feb 16 05:53	0°≈	
superior conj	10682 Mar 09 17:59	23°≈21'48	-0°46'33	desc. node	10683 Feb 18 05:44	3°≈27'01	
minimum elong	10682 Mar 09 13:00	23°≈01'32	0°45'42				
	10682 Mar 13 20:34	0°≈		superior conj	10683 Feb 18 20:45	4°≈31'28	-0°04'47
max. Earth dist.	10682 Mar 15 12:03	2°≈37'23	1.44705 AU	minimum elong	10683 Feb 18 20:21	4°≈29'43	0°04'26
evening rise	10682 Mar 25 06:27	17°≈51'34		behind sun begin	10683 Feb 18 12:06	3°≈54'22	
	10682 Apr 02 06:37	0°≈		behind sun end	10683 Feb 19 04:35	5°≈04'58	
evening max el	10682 Apr 22 19:28	27°≈51'48	20°33'39	max. Earth dist.	10683 Feb 26 03:11	16°≈39'42	1.43248 AU
	10682 Apr 25 03:22	0°≈		evening rise	10683 Mar 04 23:29	27°≈35'03	
asc. node	10682 Apr 26 13:55	1°≈03'35			10683 Mar 06 12:44	0°≈	
retrograde	10682 Apr 30 22:01	2°≈34'41			10683 Mar 27 01:29	0°≈	
evening set	10682 May 04 23:24	1°≈00'28		evening max el	10683 Apr 05 15:40	11°≈35'42	21°46'19
	10682 May 06 02:49	30°≈		asc. node	10683 Apr 13 11:09	16°≈51'42	
inferior conj	10682 May 10 06:17	24°≈53'06	3°11'16	retrograde	10683 Apr 14 20:09	17°≈00'56	
minimum elong	10682 May 10 05:14	24°≈56'42	3°10'45	evening set	10683 Apr 19 07:52	15°≈11'23	
min. Earth dist.	10682 May 10 21:41	24°≈00'09	0.68097 AU	inferior conj	10683 Apr 24 14:49	8°≈53'22	2°54'02
morning rise	10682 May 15 10:50	18°≈35'23		minimum elong	10683 Apr 24 13:02	8°≈59'35	2°53'24
direct	10682 May 20 23:03	16°≈08'49		min. Earth dist.	10683 Apr 24 17:09	8°≈45'11	0.68585 AU
desc. node	10682 May 30 09:39	21°≈10'40		morning rise	10683 Apr 29 18:01	2°≈40'09	
morning max el	10682 Jun 01 01:47	22°≈47'50	24°06'52	direct	10683 May 04 16:55	0°≈31'59	
	10682 Jun 07 09:38	0°≈		morning max el	10683 May 14 12:37	6°≈20'02	22°37'02
	10682 Jun 28 06:00	0°≈		desc. node	10683 May 17 06:35	9°≈17'15	
morning set	10682 Jul 06 14:19	13°≈50'34			10683 Jun 01 19:17	0°≈	
max. Earth dist.	10682 Jul 10 07:28	20°≈21'32	1.38187 AU	morning set	10683 Jun 17 10:44	24°≈14'36	
	10682 Jul 15 13:53	0°≈			10683 Jun 20 21:59	0°≈	
superior conj	10682 Jul 17 13:05	3°≈43'11	-0°55'15	max. Earth dist.	10683 Jun 22 04:59	2°≈10'59	1.40480 AU
minimum elong	10682 Jul 17 16:47	4°≈00'47	0°55'06				
asc. node	10682 Jul 23 13:01	15°≈23'11		superior conj	10683 Jun 30 00:21	15°≈51'48	-1°27'47
evening rise	10682 Jul 26 10:02	21°≈04'02		minimum elong	10683 Jun 30 06:12	16°≈18'13	1°27'33
	10682 Jul 31 00:45	0°≈			10683 Jul 07 15:32	0°≈	
evening max el	10682 Aug 11 20:27	17°≈51'16	19°01'53	evening rise	10683 Jul 10 01:02	4°≈31'41	
retrograde	10682 Aug 20 16:11	22°≈15'04		asc. node	10683 Jul 10 09:55	5°≈13'42	
evening set	10682 Aug 22 13:07	22°≈03'58			10683 Jul 25 19:44	0°≈	
desc. node	10682 Aug 26 08:10	20°≈40'57		evening max el	10683 Jul 26 01:16	0°≈13'52	18°23'54
inferior conj	10682 Aug 30 21:58	17°≈49'12	-1°25'33	retrograde	10683 Aug 02 14:18	4°≈01'13	
minimum elong	10682 Aug 30 18:16	17°≈55'36	1°24'15	evening set	10683 Aug 04 17:16	3°≈44'00	
min. Earth dist.	10682 Sep 02 19:33	15°≈49'22	0.56312 AU		10683 Aug 11 05:29	30°≈	
morning rise	10682 Sep 07 20:18	13°≈00'44		inferior conj	10683 Aug 12 06:49	29°≈09'21	0°17'11
direct	10682 Sep 13 06:12	11°≈51'54		minimum elong	10683 Aug 12 07:25	29°≈08'07	0°16'38
morning max el	10682 Sep 27 11:05	19°≈08'38	25°55'40	desc. node	10683 Aug 13 05:26	28°≈23'15	
	10682 Oct 06 15:19	0°≈		min. Earth dist.	10683 Aug 15 15:05	26°≈27'56	0.58245 AU
asc. node	10682 Oct 19 13:37	21°≈36'59		morning rise	10683 Aug 19 18:02	23°≈44'35	
	10682 Oct 23 17:17	0°≈		direct	10683 Aug 25 20:46	22°≈06'49	
morning set	10682 Oct 25 08:25	3°≈26'53		morning max el	10683 Sep 09 05:30	29°≈48'01	27°11'22
					10683 Sep 09 10:23	0°≈	
superior conj	10682 Nov 01 04:20	18°≈26'09	1°35'41		10683 Sep 30 14:13	0°≈	
minimum elong	10682 Nov 01 03:06	18°≈19'23	1°35'59	asc. node	10683 Oct 06 10:27	11°≈11'46	
max. Earth dist.	10682 Nov 02 04:44	20°≈41'09	1.31838 AU	morning set	10683 Oct 09 17:13	17°≈59'34	
	10682 Nov 06 11:26	0°≈			10683 Oct 15 05:24	0°≈	
evening rise	10682 Nov 08 04:34	3°≈37'06		superior conj	10683 Oct 16 16:05	3°≈13'01	1°26'01
desc. node	10682 Nov 22 05:56	29°≈46'58		minimum elong	10683 Oct 16 14:09	3°≈02'14	1°26'03
	10682 Nov 22 09:09	0°≈		max. Earth dist.	10683 Oct 16 13:43	2°≈59'53	1.31451 AU
evening max el	10682 Dec 10 04:18	23°≈12'02	27°23'02	evening rise	10683 Oct 23 10:43	18°≈05'27	
	10682 Dec 20 18:53	0°≈			10683 Oct 29 06:57	0°≈	
retrograde	10682 Dec 24 01:14	0°≈27'53		desc. node	10683 Nov 09 03:05	18°≈44'51	
	10682 Dec 27 05:22	30°≈			10683 Nov 17 11:02	0°≈	

evening max el	10683 Nov 22 06:50	5° Z 07'31	26°42'35	retrograde	10684 Nov 16 22:34	23° Z 10'51	
retrograde	10683 Dec 06 05:21	12° Z 15'36		evening set	10684 Nov 22 22:29	21° Z 48'18	
evening set	10683 Dec 12 22:48	10° Z 22'05		min. Earth dist.	10684 Nov 27 13:39	19° Z 10'11	0.57507 AU
min. Earth dist.	10683 Dec 16 20:58	7° Z 45'10	0.59549 AU	inferior conj	10684 Nov 30 12:02	17° Z 09'47	-5°09'01
inferior conj	10683 Dec 20 01:14	5° Z 14'47	-4°04'29	minimum elong	10684 Nov 30 19:20	16° Z 57'16	5°07'06
minimum elong	10683 Dec 20 09:01	4° Z 59'24	4°01'34	morning rise	10684 Dec 08 18:29	12° Z 53'23	
morning rise	10683 Dec 27 21:56	0° Z 35'59		direct	10684 Dec 11 01:15	12° Z 37'35	
direct	10683 Dec 30 00:53	0° Z 19'32		asc. node	10684 Dec 19 07:23	16° Z 20'37	
asc. node	10684 Jan 02 10:18	1° Z 03'44		morning max el	10684 Dec 19 21:52	16° Z 54'26	18°56'10
morning max el	10684 Jan 06 18:13	4° Z 08'38	18°12'59		10684 Dec 29 06:48	0° Z	
morning set	10684 Jan 22 11:08	29° Z 06'33		morning set	10685 Jan 05 09:35	13° Z 25'36	
	10684 Jan 22 22:28	0° \approx					
superior conj	10684 Jan 31 23:01	16° \approx 46'55	0°31'36	superior conj	10685 Jan 13 20:17	29° Z 55'21	1°00'11
minimum elong	10684 Feb 01 01:18	16° \approx 57'12	0°31'39	minimum elong	10685 Jan 13 23:22	0° \approx 10'02	1°00'16
desc. node	10684 Feb 05 02:31	24° \approx 08'47			10685 Jan 13 21:16	0° \approx	
max. Earth dist.	10684 Feb 08 13:33	0° X 05'32	1.41322 AU	max. Earth dist.	10685 Jan 20 20:32	12° \approx 51'02	1.39145 AU
	10684 Feb 08 12:14	0° X		desc. node	10685 Jan 21 23:19	14° \approx 49'30	
evening rise	10684 Feb 13 09:45	8° X 07'18		evening rise	10685 Jan 24 17:26	19° \approx 36'04	
	10684 Feb 27 15:00	0° Y			10685 Jan 31 00:13	0° X	
evening max el	10684 Mar 18 07:46	25° Y 22'10	23°05'43	evening max el	10685 Feb 20 19:57	0° Y	
	10684 Mar 23 23:44	0° B		retrograde	10685 Feb 28 21:43	9° Y 11'34	24°25'40
retrograde	10684 Mar 28 15:56	1° B 28'48		asc. node	10685 Mar 12 08:07	15° Y 52'58	
asc. node	10684 Mar 30 08:23	1° B 15'09		evening set	10685 Mar 17 05:38	14° Y 03'27	
	10684 Apr 01 21:01	30° R Y		min. Earth dist.	10685 Mar 17 19:14	13° Y 35'57	
evening set	10684 Apr 02 14:59	29° Y 24'46		inferior conj	10685 Mar 22 09:50	8° Y 20'11	0.68238 AU
inferior conj	10684 Apr 07 23:56	22° Y 59'11	2°26'58	minimum elong	10685 Mar 23 07:48	7° Y 06'32	1°50'30
minimum elong	10684 Apr 07 21:47	23° Y 06'38	2°26'15	morning rise	10685 Mar 23 05:42	7° Y 13'34	1°49'48
min. Earth dist.	10684 Apr 07 13:58	23° Y 33'41	0.68626 AU		10685 Mar 28 16:17	1° Y 06'38	
morning rise	10684 Apr 13 04:29	16° Y 51'54		direct	10685 Mar 30 17:19	30° R X	
direct	10684 Apr 17 14:00	15° Y 04'56			10685 Apr 01 13:01	29° X 41'20	
morning max el	10684 Apr 26 03:54	20° Y 01'49	21°12'38	morning max el	10685 Apr 03 10:19	0° Y	
desc. node	10684 May 03 03:26	28° Y 12'15		desc. node	10685 Apr 09 02:26	3° Y 55'27	19°59'38
	10684 May 04 12:10	0° B			10685 Apr 20 00:12	17° Y 42'02	
	10684 May 24 23:38	0° II		morning set	10685 Apr 28 08:50	0° B	
morning set	10684 May 27 04:52	3° II 28'02		max. Earth dist.	10685 May 06 05:16	11° B 57'19	
max. Earth dist.	10684 Jun 03 08:10	14° II 54'28	1.42599 AU		10685 May 16 18:51	28° B 29'25	1.44279 AU
					10685 May 17 17:33	0° II	
superior conj	10684 Jun 10 14:51	27° II 04'34	-1°55'11	superior conj	10685 May 22 05:11	7° II 14'14	-2°11'18
minimum elong	10684 Jun 10 21:10	27° II 31'32	1°55'12	minimum elong	10685 May 22 08:03	7° II 25'54	2°11'43
	10684 Jun 12 07:41	0° D		evening rise	10685 Jun 04 09:39	29° II 19'33	
evening rise	10684 Jun 22 02:32	17° D 20'47			10685 Jun 04 19:06	0° D	
asc. node	10684 Jun 26 06:53	24° D 50'48		asc. node	10685 Jun 13 03:52	14° D 08'29	
	10684 Jun 29 05:47	0° Q		evening max el	10685 Jun 22 02:11	26° D 26'28	18°07'12
evening max el	10684 Jul 08 12:28	13° Q 09'04	18°05'59	retrograde	10685 Jun 28 11:25	29° D 46'44	
retrograde	10684 Jul 15 06:04	16° Q 35'14		evening set	10685 Jul 01 06:10	29° D 07'02	
evening set	10684 Jul 17 16:56	16° Q 08'06		inferior conj	10685 Jul 07 11:14	23° D 53'00	2°29'16
inferior conj	10684 Jul 24 12:27	11° Q 12'58	1°35'47	minimum elong	10685 Jul 07 13:53	23° D 45'53	2°28'06
minimum elong	10684 Jul 24 15:00	11° Q 06'57	1°34'31	min. Earth dist.	10685 Jul 10 06:23	20° D 54'28	0.62735 AU
min. Earth dist.	10684 Jul 27 18:13	8° Q 11'30	0.60493 AU	morning rise	10685 Jul 13 19:44	17° D 42'56	
desc. node	10684 Jul 30 02:39	6° Q 15'06		desc. node	10685 Jul 16 23:50	15° D 54'50	
morning rise	10684 Jul 31 10:14	5° Q 20'26		direct	10685 Jul 20 12:50	15° D 13'59	
direct	10684 Aug 06 23:48	3° Q 13'54		morning max el	10685 Aug 03 14:04	23° D 16'15	27°53'23
morning max el	10684 Aug 21 06:54	11° Q 09'53	27°51'37		10685 Aug 09 13:50	0° Q	
	10684 Sep 05 00:45	0° P			10685 Aug 29 07:48	0° P	
	10684 Sep 21 19:19	0° L		morning set	10685 Sep 06 20:11	16° P 13'57	
asc. node	10684 Sep 22 07:15	1° L 01'26		asc. node	10685 Sep 09 04:03	21° P 00'54	
morning set	10684 Sep 22 21:50	2° L 16'59		max. Earth dist.	10685 Sep 12 02:46	27° P 15'17	1.32163 AU
max. Earth dist.	10684 Sep 28 22:18	15° L 14'24	1.31558 AU		10685 Sep 13 09:17	0° L	
superior conj	10684 Sep 30 03:10	17° L 54'01	1°10'55	superior conj	10685 Sep 14 11:45	2° L 23'54	0°50'41
minimum elong	10684 Sep 30 00:56	17° L 41'36	1°10'42	minimum elong	10685 Sep 14 09:42	2° L 12'46	0°50'18
	10684 Oct 05 14:38	0° M		evening rise	10685 Sep 21 07:48	17° L 19'08	
evening rise	10684 Oct 06 20:26	2° M 41'14			10685 Sep 27 12:07	0° M	
	10684 Oct 21 08:16	0° Z		desc. node	10685 Oct 12 21:29	23° M 46'25	
desc. node	10684 Oct 26 00:16	6° Z 51'09		evening max el	10685 Oct 15 13:02	26° M 32'15	23°55'06
evening max el	10684 Nov 03 01:22	16° Z 11'23	25°29'57		10685 Oct 19 17:05	0° Z	

retrograde	10685 Oct 29 03:23	3°♄20'03		evening rise	10686 Sep 05 18:52	1°♄53'05	
evening set	10685 Nov 02 21:44	2°♄30'26			10686 Sep 21 09:00	0°♄	
	10685 Nov 08 04:38	30°♄		evening max el	10686 Sep 27 00:46	6°♄38'43	22°14'38
min. Earth dist.	10685 Nov 08 23:29	29°♄32'25	0.55822 AU	desc. node	10686 Sep 29 18:46	9°♄04'04	
inferior conj	10685 Nov 11 02:22	28°♄15'43	-5°44'38	retrograde	10686 Oct 09 20:38	13°♄01'58	
minimum elong	10685 Nov 11 04:23	28°♄12'40	5°44'06	evening set	10686 Oct 13 03:21	12°♄38'07	
morning rise	10685 Nov 19 12:59	24°♄19'34		inferior conj	10686 Oct 21 23:59	8°♄38'07	-5°30'24
direct	10685 Nov 22 06:10	24°♄00'52		minimum elong	10686 Oct 21 17:47	8°♄46'51	5°29'17
morning max el	10685 Dec 02 13:32	28°♄54'06	20°02'04	min. Earth dist.	10686 Oct 21 06:42	9°♄02'26	0.54795 AU
	10685 Dec 03 15:54	0°♄		morning rise	10686 Oct 30 09:47	4°♄51'05	
asc. node	10685 Dec 06 04:24	2°♄55'10		direct	10686 Nov 02 18:39	4°♄25'45	
morning set	10685 Dec 20 14:49	28°♄01'53		morning max el	10686 Nov 14 15:35	10°♄02'17	21°29'58
	10685 Dec 21 13:58	0°♄		asc. node	10686 Nov 23 01:21	20°♄30'33	
					10686 Nov 28 14:32	0°♄	
superior conj	10685 Dec 28 07:50	13°♄43'44	1°20'39	morning set	10686 Dec 05 00:10	12°♄46'41	
minimum elong	10685 Dec 28 10:30	13°♄57'04	1°20'55				
max. Earth dist.	10686 Jan 03 03:22	25°♄02'15	1.36961 AU	superior conj	10686 Dec 12 05:30	27°♄59'08	1°33'27
	10686 Jan 05 19:33	0°♄		minimum elong	10686 Dec 12 07:10	28°♄07'46	1°33'54
evening rise	10686 Jan 06 21:27	1°♄57'27			10686 Dec 13 04:48	0°♄	
desc. node	10686 Jan 08 20:11	5°♄25'40		max. Earth dist.	10686 Dec 16 14:21	6°♄54'47	1.34997 AU
	10686 Jan 24 03:01	0°♄		evening rise	10686 Dec 20 18:20	15°♄01'42	
evening max el	10686 Feb 11 11:04	23°♄01'46	25°39'18	desc. node	10686 Dec 26 17:08	25°♄52'11	
	10686 Feb 22 07:56	0°♄			10686 Dec 29 02:46	0°♄	
retrograde	10686 Feb 23 19:48	0°♄08'09			10687 Jan 18 18:54	0°♄	
	10686 Feb 25 06:32	30°♄		evening max el	10687 Jan 25 00:27	6°♄46'06	26°39'32
evening set	10686 Mar 01 19:03	27°♄40'49		retrograde	10687 Feb 07 02:15	14°♄06'28	
asc. node	10686 Mar 04 02:52	25°♄23'17		evening set	10687 Feb 13 12:37	11°♄33'13	
min. Earth dist.	10686 Mar 06 02:38	23°♄00'06	0.67439 AU	min. Earth dist.	10687 Feb 17 14:13	7°♄26'45	0.66240 AU
inferior conj	10686 Mar 07 12:31	21°♄12'15	1°04'45	inferior conj	10687 Feb 19 11:59	5°♄11'04	0°09'43
minimum elong	10686 Mar 07 11:01	21°♄17'01	1°04'19	minimum elong	10687 Feb 19 11:43	5°♄11'53	0°09'53
morning rise	10686 Mar 13 03:30	15°♄21'14		transit middle	10687 Feb 19 11:43	5°♄11'53	0°09'53
direct	10686 Mar 16 12:25	14°♄16'07		transit begin	10687 Feb 19 09:25	5°♄18'44	
morning max el	10686 Mar 23 08:51	18°♄00'08	19°01'25	transit end	10687 Feb 19 14:01	5°♄05'02	
	10686 Apr 01 18:29	0°♄		asc. node	10687 Feb 19 00:07	5°♄46'29	
greatest brilliancy	10686 Apr 05 19:18	6°♄00'12	-0.7m		10687 Feb 24 16:45	30°♄	
desc. node	10686 Apr 06 20:59	7°♄37'36		morning rise	10687 Feb 25 11:54	29°♄30'53	
morning set	10686 Apr 15 09:39	20°♄45'45		direct	10687 Feb 28 10:22	28°♄42'59	
	10686 Apr 21 08:25	0°♄			10687 Mar 04 06:24	0°♄	
max. Earth dist.	10686 Apr 29 11:12	12°♄40'23	1.45337 AU	morning max el	10687 Mar 06 21:40	2°♄09'43	18°19'32
				desc. node	10687 Mar 24 17:44	27°♄51'35	
superior conj	10686 May 01 21:29	16°♄29'35	-2°09'44		10687 Mar 26 01:54	0°♄	
minimum elong	10686 May 01 17:07	16°♄12'21	2°09'58	morning set	10687 Mar 26 13:51	0°♄47'44	
	10686 May 10 09:08	0°♄					
evening rise	10686 May 16 18:05	10°♄19'37		superior conj	10687 Apr 11 03:49	25°♄25'34	-1°47'57
	10686 May 29 00:09	0°♄		minimum elong	10687 Apr 10 18:28	24°♄49'02	1°47'21
asc. node	10686 May 31 00:55	2°♄59'52		max. Earth dist.	10687 Apr 12 06:20	27°♄09'16	1.45668 AU
evening max el	10686 Jun 05 15:14	9°♄57'42	18°26'45		10687 Apr 14 02:02	0°♄	
retrograde	10686 Jun 12 01:50	13°♄26'04		evening rise	10687 Apr 27 02:51	20°♄22'40	
evening set	10686 Jun 15 04:27	12°♄32'08			10687 May 03 06:17	0°♄	
inferior conj	10686 Jun 20 23:01	7°♄01'09	3°01'13	greatest brilliancy	10687 May 07 16:03	6°♄49'49	-0.8m
minimum elong	10686 Jun 21 00:49	6°♄55'49	3°00'24	asc. node	10687 May 17 22:02	21°♄16'28	
min. Earth dist.	10686 Jun 23 04:00	4°♄24'36	0.64747 AU	evening max el	10687 May 20 01:08	23°♄36'52	19°03'49
morning rise	10686 Jun 26 20:07	0°♄42'21		retrograde	10687 May 26 21:39	27°♄25'58	
	10686 Jun 27 18:09	30°♄		evening set	10687 May 30 08:29	26°♄16'48	
direct	10686 Jul 03 10:21	28°♄00'46		inferior conj	10687 Jun 04 20:10	20°♄30'36	3°15'48
desc. node	10686 Jul 03 20:59	28°♄01'26		minimum elong	10687 Jun 04 20:48	20°♄28'34	3°15'14
	10686 Jul 09 17:00	0°♄		min. Earth dist.	10687 Jun 06 10:11	18°♄29'03	0.66393 AU
morning max el	10686 Jul 17 00:25	5°♄58'59	27°19'45	morning rise	10687 Jun 10 08:33	14°♄09'23	
	10686 Aug 04 08:53	0°♄		direct	10687 Jun 16 15:06	11°♄26'02	
morning set	10686 Aug 21 09:38	29°♄43'11		desc. node	10687 Jun 20 18:04	12°♄24'39	
	10686 Aug 21 13:05	0°♄		morning max el	10687 Jun 29 11:14	19°♄05'48	26°18'01
max. Earth dist.	10686 Aug 25 23:14	8°♄52'59	1.33273 AU		10687 Jul 08 17:07	0°♄	
asc. node	10686 Aug 27 00:50	11°♄05'25			10687 Jul 28 10:00	0°♄	
				morning set	10687 Aug 04 10:54	12°♄36'25	
superior conj	10686 Aug 29 15:44	16°♄36'27	0°25'38	max. Earth dist.	10687 Aug 08 09:14	20°♄06'48	1.34875 AU
minimum elong	10686 Aug 29 14:30	16°♄29'51	0°25'13		10687 Aug 13 07:45	0°♄	
	10686 Sep 04 21:37	0°♄					

superior conj	10687 Aug 13 12:45	0° \mathbb{M} 25'42	-0°03'38	max. Earth dist.	10688 Jul 20 09:40	1° Ω 10'47	1.36903 AU
minimum elong	10687 Aug 13 12:59	0° \mathbb{M} 26'50	0°03'55				
behind sun begin	10687 Aug 13 07:11	29° Ω 57'08		superior conj	10688 Jul 26 23:43	13° Ω 43'06	-0°35'58
behind sun end	10687 Aug 13 18:47	0° \mathbb{M} 56'36		minimum elong	10688 Jul 27 02:02	13° Ω 54'27	0°35'59
asc. node	10687 Aug 13 21:39	1° \mathbb{M} 11'24		asc. node	10688 Jul 30 18:28	21° Ω 14'12	
evening rise	10687 Aug 21 03:42	16° \mathbb{M} 17'55		evening rise	10688 Aug 04 07:55	0° \mathbb{M} 26'25	
	10687 Aug 28 01:34	0° $\underline{\mathbf{A}}$			10688 Aug 04 02:40	0° \mathbb{M}	
evening max el	10687 Sep 08 22:04	17° $\underline{\mathbf{A}}$ 09'06	20°44'28	evening max el	10688 Aug 21 09:07	28° \mathbb{M} 23'18	19°33'11
desc. node	10687 Sep 16 16:04	22° $\underline{\mathbf{A}}$ 14'38			10688 Aug 23 03:50	0° $\underline{\mathbf{A}}$	
retrograde	10687 Sep 20 08:19	22° $\underline{\mathbf{A}}$ 49'15		retrograde	10688 Aug 31 02:25	3° $\underline{\mathbf{A}}$ 12'53	
evening set	10687 Sep 22 13:01	22° $\underline{\mathbf{A}}$ 37'34		evening set	10688 Sep 01 22:44	3° $\underline{\mathbf{A}}$ 03'12	
inferior conj	10687 Oct 01 16:10	18° $\underline{\mathbf{A}}$ 41'53	-4°19'14	desc. node	10688 Sep 02 13:23	2° $\underline{\mathbf{A}}$ 55'55	
minimum elong	10687 Oct 01 06:15	18° $\underline{\mathbf{A}}$ 56'05	4°16'18		10688 Sep 09 01:51	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	10687 Oct 02 14:55	18° $\underline{\mathbf{A}}$ 09'17	0.54665 AU	inferior conj	10688 Sep 10 17:15	28° \mathbb{M} 58'26	-2°31'12
morning rise	10687 Oct 09 23:22	14° $\underline{\mathbf{A}}$ 44'08		minimum elong	10688 Sep 10 10:31	29° \mathbb{M} 09'08	2°28'44
direct	10687 Oct 14 02:52	14° $\underline{\mathbf{A}}$ 07'14		min. Earth dist.	10688 Sep 13 01:51	27° \mathbb{M} 28'48	0.55482 AU
morning max el	10687 Oct 27 06:42	20° $\underline{\mathbf{A}}$ 28'04	23°13'40	morning rise	10688 Sep 18 20:03	24° \mathbb{M} 31'41	
	10687 Nov 04 07:40	0° \mathbb{M}		direct	10688 Sep 23 19:22	23° \mathbb{M} 36'27	
asc. node	10687 Nov 09 22:17	8° \mathbb{M} 53'01			10688 Oct 07 02:48	0° $\underline{\mathbf{A}}$	
morning set	10687 Nov 19 11:35	27° \mathbb{M} 34'29		morning max el	10688 Oct 07 17:49	0° $\underline{\mathbf{A}}$ 34'55	25°00'06
	10687 Nov 20 14:51	0° \mathbb{A}		asc. node	10688 Oct 26 19:10	27° $\underline{\mathbf{A}}$ 50'30	
					10688 Oct 27 22:22	0° \mathbb{M}	
superior conj	10687 Nov 26 10:08	12° \mathbb{A} 32'35	1°39'16	morning set	10688 Nov 02 23:19	12° \mathbb{M} 20'14	
minimum elong	10687 Nov 26 10:36	12° \mathbb{A} 35'03	1°39'46				
max. Earth dist.	10687 Nov 29 09:01	18° \mathbb{A} 49'45	1.33414 AU	superior conj	10688 Nov 09 19:09	27° \mathbb{M} 16'12	1°38'42
evening rise	10687 Dec 04 04:30	28° \mathbb{A} 40'06		minimum elong	10688 Nov 09 18:29	27° \mathbb{M} 12'31	1°39'07
	10687 Dec 04 20:42	0° \mathbb{B}			10688 Nov 11 01:02	0° \mathbb{A}	
desc. node	10687 Dec 13 14:08	16° \mathbb{B} 04'03		max. Earth dist.	10688 Nov 11 11:31	0° \mathbb{A} 57'15	1.32279 AU
	10687 Dec 22 06:47	0° \approx		evening rise	10688 Nov 17 00:35	12° \mathbb{A} 43'52	
evening max el	10688 Jan 07 13:33	20° \approx 16'06	27°19'03		10688 Nov 26 00:46	0° \mathbb{B}	
retrograde	10688 Jan 21 02:36	27° \approx 39'40		desc. node	10688 Nov 29 11:12	5° \mathbb{B} 54'49	
evening set	10688 Jan 27 21:46	25° \approx 06'46			10688 Dec 16 18:26	0° \approx	
min. Earth dist.	10688 Jan 31 18:30	21° \approx 32'51	0.64685 AU	evening max el	10688 Dec 20 00:44	3° \approx 19'52	27°31'00
inferior conj	10688 Feb 03 03:50	18° \approx 57'38	-0°54'17	retrograde	10689 Jan 02 19:48	10° \approx 39'02	
minimum elong	10688 Feb 03 05:28	18° \approx 53'10	0°53'11	evening set	10689 Jan 09 19:52	8° \approx 14'18	
asc. node	10688 Feb 05 21:22	16° \approx 09'16		min. Earth dist.	10689 Jan 13 13:31	5° \approx 09'16	0.62831 AU
morning rise	10688 Feb 09 14:54	13° \approx 30'36		inferior conj	10689 Jan 16 09:13	2° \approx 25'09	-2°05'52
direct	10688 Feb 12 04:38	12° \approx 56'15		minimum elong	10689 Jan 16 13:22	2° \approx 15'03	2°03'42
morning max el	10688 Feb 18 14:19	16° \approx 16'52	17°54'32		10689 Jan 18 23:49	30° \mathbb{R} \mathbb{B}	
	10688 Feb 28 13:13	0° \mathbb{H}		asc. node	10689 Jan 22 18:34	27° \mathbb{B} 28'43	
morning set	10688 Mar 06 23:12	12° \mathbb{H} 15'40		morning rise	10689 Jan 23 09:09	27° \mathbb{B} 14'17	
desc. node	10688 Mar 10 14:29	18° \mathbb{H} 18'29		direct	10689 Jan 25 16:21	26° \mathbb{B} 49'37	
	10688 Mar 17 18:02	0° \mathbb{Y}			10689 Feb 01 02:09	0° \approx	
				morning max el	10689 Feb 01 07:52	0° \approx 13'50	17°47'00
superior conj	10688 Mar 20 18:22	4° \mathbb{Y} 50'21	-1°10'57	morning set	10689 Feb 17 09:19	24° \approx 55'07	
minimum elong	10688 Mar 20 10:41	4° \mathbb{Y} 19'39	1°09'59		10689 Feb 20 07:07	0° \mathbb{H}	
max. Earth dist.	10688 Mar 25 01:50	11° \mathbb{Y} 40'24	1.45258 AU	desc. node	10689 Feb 25 11:13	8° \mathbb{H} 54'13	
evening rise	10688 Apr 05 18:14	29° \mathbb{Y} 48'50					
	10688 Apr 05 21:08	0° \mathbb{B}		superior conj	10689 Mar 01 06:38	15° \mathbb{H} 18'33	-0°28'26
greatest brilliancy	10688 Apr 20 12:20	22° \mathbb{B} 04'01	-0.6m	minimum elong	10689 Mar 01 03:45	15° \mathbb{H} 06'34	0°27'49
	10688 Apr 26 03:36	0° \mathbb{H}		max. Earth dist.	10689 Mar 07 19:32	25° \mathbb{H} 59'10	1.44155 AU
evening max el	10688 May 02 06:08	7° \mathbb{H} 19'21	19°56'54		10689 Mar 10 07:59	0° \mathbb{Y}	
asc. node	10688 May 03 19:12	8° \mathbb{H} 46'42		evening rise	10689 Mar 16 06:21	9° \mathbb{Y} 16'02	
retrograde	10688 May 09 19:55	11° \mathbb{H} 39'55			10689 Mar 30 02:13	0° \mathbb{B}	
evening set	10688 May 13 15:44	10° \mathbb{H} 14'59		evening max el	10689 Apr 15 05:33	21° \mathbb{B} 03'21	21°03'26
inferior conj	10688 May 18 23:37	4° \mathbb{H} 15'04	3°16'22	asc. node	10689 Apr 20 16:26	25° \mathbb{B} 16'56	
minimum elong	10688 May 18 23:08	4° \mathbb{H} 16'43	3°15'52	retrograde	10689 Apr 23 18:32	26° \mathbb{B} 03'22	
min. Earth dist.	10688 May 19 23:05	2° \mathbb{H} 56'00	0.67609 AU	evening set	10689 Apr 28 00:15	24° \mathbb{B} 22'34	
	10688 May 22 06:27	30° \mathbb{R} \mathbb{B}		inferior conj	10689 May 03 06:55	18° \mathbb{B} 10'37	3°05'12
morning rise	10688 May 24 06:12	27° \mathbb{B} 55'24		minimum elong	10689 May 03 05:31	18° \mathbb{B} 15'27	3°04'38
direct	10688 May 30 01:49	25° \mathbb{B} 20'15		min. Earth dist.	10689 May 03 16:41	17° \mathbb{B} 36'44	0.68366 AU
desc. node	10688 Jun 06 15:06	28° \mathbb{B} 35'24		morning rise	10689 May 08 10:34	11° \mathbb{B} 54'48	
	10688 Jun 08 07:57	0° \mathbb{H}		direct	10689 May 13 17:19	9° \mathbb{B} 35'23	
morning max el	10688 Jun 10 21:02	2° \mathbb{H} 25'11	24°57'33	morning max el	10689 May 24 06:42	15° \mathbb{B} 52'40	23°28'28
	10688 Jul 01 19:48	0° \mathbb{B}		desc. node	10689 May 24 12:03	16° \mathbb{B} 06'14	
morning set	10688 Jul 16 19:33	24° \mathbb{B} 41'13			10689 Jun 04 21:08	0° \mathbb{H}	
	10688 Jul 19 18:15	0° Ω			10689 Jun 24 19:25	0° \mathbb{B}	

morning set	10689 Jun 28 06:32	5°♄45'11			10690 May 29 14:33	0°♄		
max. Earth dist.	10689 Jul 02 06:35	12°♄37'10	1.39177 AU		morning set	10690 Jun 08 15:38	15°♄38'26	
					max. Earth dist.	10690 Jun 14 06:39	24°♄51'04	1.41423 AU
superior conj	10689 Jul 09 20:55	26°♄20'01	-1°09'20			10690 Jun 17 07:52	0°♄	
minimum elong	10689 Jul 10 01:36	26°♄41'53	1°09'08					
	10689 Jul 11 19:46	0°♄			superior conj	10690 Jun 21 23:54	8°♄06'01	-1°40'21
asc. node	10689 Jul 17 15:21	11°♄10'32			minimum elong	10690 Jun 22 06:16	8°♄34'10	1°40'11
evening rise	10689 Jul 19 04:44	14°♄11'46			evening rise	10690 Jul 02 14:33	27°♄24'45	
	10689 Jul 27 18:02	0°♄				10690 Jul 04 00:07	0°♄	
evening max el	10689 Aug 04 08:28	10°♄22'52	18°43'05		asc. node	10690 Jul 04 12:17	0°♄56'11	
retrograde	10689 Aug 12 13:33	14°♄29'08			evening max el	10690 Jul 18 16:26	23°♄00'29	18°13'47
evening set	10689 Aug 14 12:46	14°♄15'49			retrograde	10690 Jul 25 19:53	26°♄37'16	
desc. node	10689 Aug 20 10:40	11°♄23'43			evening set	10690 Jul 28 02:05	26°♄16'15	
inferior conj	10689 Aug 22 13:29	9°♄52'34	-0°39'24		inferior conj	10690 Aug 04 07:35	21°♄32'26	0°53'43
minimum elong	10689 Aug 22 11:53	9°♄55'33	0°39'00		minimum elong	10690 Aug 04 09:18	21°♄28'44	0°52'43
min. Earth dist.	10689 Aug 25 17:25	7°♄33'06	0.57086 AU		desc. node	10690 Aug 07 07:54	18°♄56'23	
morning rise	10689 Aug 30 07:36	4°♄48'23			min. Earth dist.	10690 Aug 07 15:56	18°♄39'47	0.59182 AU
direct	10689 Sep 05 01:20	3°♄27'48			morning rise	10690 Aug 11 13:13	15°♄54'24	
morning max el	10689 Sep 19 08:21	10°♄55'03	26°31'41		direct	10690 Aug 17 21:09	14°♄04'21	
	10689 Oct 04 01:14	0°♄			morning max el	10690 Sep 01 06:02	21°♄52'44	27°33'15
asc. node	10689 Oct 13 15:59	17°♄13'50				10690 Sep 08 09:15	0°♄	
morning set	10689 Oct 18 09:41	26°♄59'07				10690 Sep 27 00:55	0°♄	
	10689 Oct 19 19:19	0°♄			asc. node	10690 Sep 30 12:46	6°♄55'55	
					morning set	10690 Oct 02 16:59	11°♄26'37	
superior conj	10689 Oct 25 06:26	12°♄03'26	1°32'15		max. Earth dist.	10690 Oct 09 04:47	25°♄34'31	1.31438 AU
minimum elong	10689 Oct 25 04:52	11°♄54'43	1°32'27					
max. Earth dist.	10689 Oct 25 19:17	13°♄14'54	1.31618 AU		superior conj	10690 Oct 09 18:08	26°♄48'46	1°20'15
evening rise	10689 Nov 01 03:46	27°♄05'10			minimum elong	10690 Oct 09 16:01	26°♄36'59	1°20'11
	10689 Nov 02 13:15	0°♄				10690 Oct 11 04:29	0°♄	
desc. node	10689 Nov 16 08:20	25°♄15'19			evening rise	10690 Oct 16 11:43	11°♄37'42	
	10689 Nov 19 10:47	0°♄				10690 Oct 25 17:39	0°♄	
evening max el	10689 Dec 02 07:13	15°♄43'13	27°10'07		desc. node	10690 Nov 03 05:30	13°♄53'42	
retrograde	10689 Dec 16 04:44	22°♄55'01			evening max el	10690 Nov 14 06:18	27°♄16'18	26°15'08
evening set	10689 Dec 23 03:23	20°♄47'18				10690 Nov 17 10:34	0°♄	
min. Earth dist.	10689 Dec 26 21:44	18°♄03'52	0.60771 AU		retrograde	10690 Nov 28 04:23	4°♄21'00	
inferior conj	10689 Dec 30 00:44	15°♄24'01	-3°21'40		evening set	10690 Dec 04 16:06	2°♄39'32	
minimum elong	10689 Dec 30 07:28	15°♄09'36	3°18'45			10690 Dec 08 22:01	30°♄	
morning rise	10690 Jan 06 14:10	10°♄32'46			min. Earth dist.	10690 Dec 08 19:26	0°♄04'37	0.58658 AU
direct	10690 Jan 08 17:42	10°♄14'12			inferior conj	10690 Dec 11 22:51	27°♄44'49	-4°34'04
asc. node	10690 Jan 09 15:43	10°♄17'43			minimum elong	10690 Dec 12 06:54	27°♄29'52	4°31'25
morning max el	10690 Jan 15 22:57	13°♄51'14	17°57'53		morning rise	10690 Dec 20 00:19	23°♄15'52	
	10690 Jan 26 22:28	0°♄			direct	10690 Dec 22 04:12	23°♄00'06	
morning set	10690 Jan 31 13:36	8°♄25'03			asc. node	10690 Dec 27 12:47	24°♄43'17	
					morning max el	10690 Dec 30 07:58	26°♄59'27	18°28'44
superior conj	10690 Feb 10 19:48	26°♄57'04	0°11'32			10691 Jan 02 00:36	0°♄	
minimum elong	10690 Feb 10 20:47	27°♄01'24	0°11'43		morning set	10691 Jan 15 06:37	22°♄29'33	
behind sun begin	10690 Feb 10 15:15	26°♄37'08				10691 Jan 19 04:21	0°♄	
behind sun end	10690 Feb 11 02:19	27°♄25'37						
desc. node	10690 Feb 12 07:58	29°♄34'30			superior conj	10691 Jan 24 06:48	9°♄36'53	0°44'42
	10690 Feb 12 13:51	0°♄			minimum elong	10691 Jan 24 09:36	9°♄49'52	0°44'45
max. Earth dist.	10690 Feb 18 09:14	9°♄49'06	1.42475 AU		desc. node	10691 Jan 30 04:45	20°♄16'04	
evening rise	10690 Feb 24 05:42	19°♄17'46			max. Earth dist.	10691 Jan 31 17:54	22°♄57'34	1.40410 AU
	10690 Mar 03 03:16	0°♄				10691 Feb 04 21:42	0°♄	
	10690 Mar 24 15:59	0°♄			evening rise	10691 Feb 05 00:53	0°♄13'16	
evening max el	10690 Mar 28 23:48	4°♄47'53	22°19'33			10691 Feb 24 13:40	0°♄	
retrograde	10690 Apr 07 15:46	10°♄30'46			evening max el	10691 Mar 11 14:32	18°♄34'24	23°39'59
asc. node	10690 Apr 07 13:41	10°♄30'44			retrograde	10691 Mar 22 10:15	24°♄57'24	
evening set	10690 Apr 12 08:19	8°♄34'40			asc. node	10691 Mar 25 10:56	24°♄13'59	
inferior conj	10690 Apr 17 15:54	2°♄13'03	2°43'44		evening set	10691 Mar 27 14:25	22°♄47'20	
minimum elong	10690 Apr 17 13:55	2°♄19'58	2°43'02		min. Earth dist.	10691 Apr 01 09:31	17°♄11'21	0.68510 AU
min. Earth dist.	10690 Apr 17 12:52	2°♄23'38	0.68660 AU		inferior conj	10691 Apr 02 00:42	16°♄19'22	2°12'39
	10690 Apr 19 06:41	30°♄			minimum elong	10691 Apr 01 22:31	16°♄26'51	2°11'54
morning rise	10690 Apr 22 19:22	26°♄02'27			morning rise	10691 Apr 07 06:37	10°♄15'08	
direct	10690 Apr 27 12:33	24°♄03'15			direct	10691 Apr 11 10:29	8°♄37'41	
morning max el	10690 May 06 19:04	29°♄28'30	22°00'08		morning max el	10691 Apr 19 13:20	13°♄15'17	20°39'58
	10690 May 07 07:28	0°♄			desc. node	10691 Apr 28 05:42	23°♄45'33	
desc. node	10690 May 11 08:54	4°♄34'51				10691 May 02 16:55	0°♄	

morning set	10691 May 19 00:18	24°♄27'14		desc. node	10692 Apr 14 02:29	13°♄27'14	
	10691 May 22 13:21	0°♄		greatest brilliancy	10692 Apr 14 07:45	13°♄46'33	-0.7m
max. Earth dist.	10691 May 27 12:51	7°♄56'34	1.43372 AU		10692 Apr 25 01:37	0°♄	
				morning set	10692 Apr 26 23:20	2°♄55'40	
superior conj	10691 Jun 03 04:15	18°♄51'22	-2°03'48	max. Earth dist.	10692 May 09 01:38	21°♄46'37	1.44805 AU
minimum elong	10691 Jun 03 09:41	19°♄14'06	2°04'01				
	10691 Jun 09 17:16	0°♄		superior conj	10692 May 13 08:31	28°♄35'51	-2°13'06
evening rise	10691 Jun 15 08:52	9°♄53'40		minimum elong	10692 May 13 08:33	28°♄35'58	2°13'34
asc. node	10691 Jun 21 09:16	20°♄25'42			10692 May 14 05:30	0°♄	
	10691 Jun 27 07:41	0°♄		evening rise	10692 May 27 06:47	21°♄27'56	
evening max el	10691 Jul 02 05:05	6°♄05'53	18°04'13		10692 Jun 01 08:58	0°♄	
retrograde	10691 Jul 08 18:04	9°♄28'04		asc. node	10692 Jun 07 06:19	9°♄33'23	
evening set	10691 Jul 11 08:09	8°♄56'02		evening max el	10692 Jun 14 18:57	19°♄30'29	18°13'24
inferior conj	10691 Jul 17 21:03	3°♄52'46	2°01'21	retrograde	10692 Jun 21 03:40	22°♄52'26	
minimum elong	10691 Jul 17 23:49	3°♄45'52	2°00'03	evening set	10692 Jun 24 01:44	22°♄06'55	
min. Earth dist.	10691 Jul 20 23:02	0°♄49'37	0.61455 AU	inferior conj	10692 Jun 30 01:53	16°♄45'48	2°45'08
	10691 Jul 21 20:29	30°♄		minimum elong	10692 Jun 30 04:15	16°♄39'10	2°44'07
morning rise	10691 Jul 24 13:01	27°♄51'13		min. Earth dist.	10692 Jul 02 15:24	13°♄54'20	0.63627 AU
desc. node	10691 Jul 25 05:08	27°♄24'58		morning rise	10692 Jul 06 05:15	10°♄31'09	
direct	10691 Jul 31 04:50	25°♄33'57		desc. node	10692 Jul 11 02:18	8°♄06'13	
	10691 Aug 10 10:38	0°♄		direct	10692 Jul 12 21:59	7°♄55'08	
morning max el	10691 Aug 14 10:21	3°♄34'45	27°57'02	morning max el	10692 Jul 26 19:04	15°♄57'31	27°42'57
	10691 Sep 03 00:08	0°♄			10692 Aug 07 08:00	0°♄	
morning set	10691 Sep 16 19:14	25°♄36'20			10692 Aug 25 17:39	0°♄	
asc. node	10691 Sep 17 09:32	26°♄50'16		morning set	10692 Aug 30 14:10	9°♄22'29	
	10691 Sep 18 21:46	0°♄		asc. node	10692 Sep 03 06:20	16°♄52'27	
max. Earth dist.	10691 Sep 22 12:00	7°♄44'04	1.31751 AU	max. Earth dist.	10692 Sep 04 13:16	19°♄34'46	1.32573 AU
superior conj	10691 Sep 24 04:24	11°♄25'47	1°02'58	superior conj	10692 Sep 07 11:20	25°♄49'17	0°40'39
minimum elong	10691 Sep 24 02:10	11°♄13'32	1°02'39	minimum elong	10692 Sep 07 09:33	25°♄39'41	0°40'13
evening rise	10691 Sep 30 22:21	26°♄14'47			10692 Sep 09 09:34	0°♄	
	10691 Oct 02 16:41	0°♄		evening rise	10692 Sep 14 09:50	10°♄51'36	
	10691 Oct 19 22:12	0°♄			10692 Sep 24 02:46	0°♄	
desc. node	10691 Oct 21 02:43	1°♄32'40		desc. node	10692 Oct 06 23:59	17°♄50'03	
evening max el	10691 Oct 26 21:14	7°♄58'48	24°51'21	evening max el	10692 Oct 07 07:57	18°♄09'35	23°12'00
retrograde	10691 Nov 09 16:54	14°♄55'00		retrograde	10692 Oct 20 16:27	24°♄48'39	
evening set	10691 Nov 15 05:26	13°♄46'38		evening set	10692 Oct 24 19:20	24°♄11'45	
min. Earth dist.	10691 Nov 20 08:53	11°♄02'10	0.56728 AU	min. Earth dist.	10692 Oct 31 17:27	20°♄59'28	0.55292 AU
inferior conj	10691 Nov 23 00:51	9°♄18'44	-5°29'00	inferior conj	10692 Nov 02 07:14	20°♄04'37	-5°45'39
minimum elong	10691 Nov 23 06:32	9°♄09'30	5°27'44	minimum elong	10692 Nov 02 05:43	20°♄06'48	5°45'12
morning rise	10691 Dec 01 09:53	5°♄11'46		morning rise	10692 Nov 10 17:51	16°♄13'49	
direct	10691 Dec 03 19:59	4°♄55'21		direct	10692 Nov 13 17:12	15°♄52'43	
morning max el	10691 Dec 13 06:59	9°♄26'52	19°21'24	morning max el	10692 Nov 24 16:50	21°♄04'24	20°36'52
asc. node	10691 Dec 14 09:49	10°♄34'51		asc. node	10692 Nov 30 06:48	27°♄36'57	
	10691 Dec 26 19:40	0°♄			10692 Dec 01 22:12	0°♄	
morning set	10691 Dec 30 08:17	6°♄56'24		morning set	10692 Dec 13 15:33	21°♄36'48	
					10692 Dec 17 16:34	0°♄	
superior conj	10692 Jan 07 10:41	23°♄03'37	1°09'50	superior conj	10692 Dec 21 02:57	7°♄04'19	1°26'59
minimum elong	10692 Jan 07 13:42	23°♄18'17	1°09'59	minimum elong	10692 Dec 21 05:14	7°♄15'57	1°27'19
	10692 Jan 11 01:40	0°♄		max. Earth dist.	10692 Dec 26 07:39	17°♄24'14	1.36091 AU
max. Earth dist.	10692 Jan 13 23:41	5°♄24'05	1.38199 AU	evening rise	10692 Dec 30 05:13	24°♄45'56	
desc. node	10692 Jan 17 01:36	10°♄55'11			10693 Jan 02 02:39	0°♄	
evening rise	10692 Jan 17 17:33	12°♄05'05			10693 Jan 02 22:30	1°♄27'43	
	10692 Jan 28 14:32	0°♄		desc. node	10693 Jan 21 04:29	0°♄	
	10692 Feb 19 20:15	0°♄			10693 Jan 21 04:29	0°♄	
evening max el	10692 Feb 22 03:58	2°♄24'02	24°58'15	evening max el	10693 Feb 03 17:30	16°♄13'12	26°07'09
retrograde	10692 Mar 05 00:48	9°♄18'11		retrograde	10693 Feb 16 10:20	23°♄26'38	
evening set	10692 Mar 10 17:00	6°♄56'28		evening set	10693 Feb 22 14:22	20°♄56'30	
asc. node	10692 Mar 11 08:11	6°♄22'30		asc. node	10693 Feb 26 05:27	17°♄12'24	
min. Earth dist.	10692 Mar 15 04:28	1°♄55'26	0.67939 AU	min. Earth dist.	10693 Feb 26 19:25	16°♄30'14	0.66971 AU
inferior conj	10692 Mar 16 07:29	0°♄26'31	1°32'15	inferior conj	10693 Feb 28 10:15	14°♄29'56	0°42'32
minimum elong	10692 Mar 16 05:34	0°♄32'49	1°31'37	minimum elong	10693 Feb 28 09:12	14°♄33'14	0°42'19
	10692 Mar 16 15:33	30°♄		morning rise	10693 Mar 06 04:43	8°♄43'00	
morning rise	10692 Mar 21 18:25	24°♄30'00		direct	10693 Mar 09 09:02	7°♄45'29	
direct	10692 Mar 25 09:53	23°♄13'39		morning max el	10693 Mar 16 00:35	11°♄20'45	18°41'31
morning max el	10692 Apr 01 15:16	27°♄13'50	19°32'55		10693 Mar 29 16:44	0°♄	
	10692 Apr 04 04:38	0°♄		desc. node	10693 Mar 31 23:14	3°♄31'11	

morning set	10693 Apr 06 12:11	12° Υ 10'40		transit middle	10694 Feb 12 07:17	28° \approx 23'30	0°15'49
	10693 Apr 17 21:37	0° \mathcal{B}		transit begin	10694 Feb 12 06:48	28° \approx 24'51	
max. Earth dist.	10693 Apr 21 19:35	6° \mathcal{B} 07'23	1.45570 AU	transit end	10694 Feb 12 07:45	28° \approx 22'09	
				asc. node	10694 Feb 13 02:40	27° \approx 28'28	
superior conj	10693 Apr 22 18:30	7° \mathcal{B} 37'05	-2°02'52	morning rise	10694 Feb 18 11:13	22° \approx 49'49	
minimum elong	10693 Apr 22 11:18	7° \mathcal{B} 08'51	2°02'45	direct	10694 Feb 21 05:51	22° \approx 07'59	
	10693 May 06 22:20	0° Π		morning max el	10694 Feb 27 15:22	25° \approx 30'27	18°06'48
evening rise	10693 May 08 04:50	2° Π 01'57			10694 Mar 03 11:45	0° \mathcal{H}	
greatest brilliancy	10693 May 15 12:21	13° Π 43'50	-0.9m	morning set	10694 Mar 18 04:59	22° \mathcal{H} 50'32	
asc. node	10693 May 25 03:25	28° Π 11'03		desc. node	10694 Mar 18 20:00	23° \mathcal{H} 51'30	
	10693 May 26 13:11	0° \mathcal{E}			10694 Mar 22 15:03	0° Υ	
evening max el	10693 May 29 07:00	3° \mathcal{E} 05'49	18°40'31				
retrograde	10693 Jun 04 20:40	6° \mathcal{E} 41'06		superior conj	10694 Apr 02 02:04	16° Υ 39'11	-1°33'34
evening set	10693 Jun 08 02:49	5° \mathcal{E} 40'39		minimum elong	10694 Apr 01 16:42	16° Υ 02'20	1°32'42
inferior conj	10693 Jun 13 18:03	0° \mathcal{E} 03'07	3°09'15	max. Earth dist.	10694 Apr 04 15:46	20° Υ 41'18	1.45591 AU
minimum elong	10693 Jun 13 19:22	29° Π 59'04	3°08'34		10694 Apr 10 15:00	0° \mathcal{B}	
	10693 Jun 13 19:03	30° $\mathcal{R}\Pi$		evening rise	10694 Apr 18 04:57	11° \mathcal{B} 45'56	
min. Earth dist.	10693 Jun 15 16:40	27° Π 40'20	0.65501 AU		10694 Apr 30 01:55	0° Π	
morning rise	10693 Jun 19 11:07	23° Π 42'59		greatest brilliancy	10694 Apr 30 18:08	1° Π 00'52	-0.7m
direct	10693 Jun 25 22:43	20° Π 59'20		asc. node	10694 May 12 00:34	16° Π 09'11	
desc. node	10693 Jun 27 23:25	21° Π 13'28		evening max el	10694 May 12 14:58	16° Π 46'25	19°24'30
morning max el	10693 Jul 09 05:40	28° Π 50'48	26°56'23	retrograde	10694 May 19 17:50	20° Π 47'33	
	10693 Jul 10 08:23	0° \mathcal{E}		evening set	10694 May 23 08:29	19° Π 31'29	
	10693 Aug 01 04:05	0° Ω		inferior conj	10694 May 28 18:11	13° Π 39'03	3°17'35
morning set	10693 Aug 13 22:52	22° Ω 37'08		minimum elong	10694 May 28 18:19	13° Π 38'35	3°17'04
	10693 Aug 17 17:12	0° \mathcal{M}		min. Earth dist.	10694 May 30 01:48	11° Π 55'19	0.66970 AU
max. Earth dist.	10693 Aug 18 05:23	1° \mathcal{M} 01'10	1.33899 AU	morning rise	10694 Jun 03 03:46	7° Π 18'15	
asc. node	10693 Aug 21 03:10	6° \mathcal{M} 58'00		direct	10694 Jun 09 05:54	4° Π 37'38	
				desc. node	10694 Jun 14 20:29	6° Π 25'41	
superior conj	10693 Aug 22 12:42	9° \mathcal{M} 52'49	0°13'43	morning max el	10694 Jun 21 16:10	12° Π 03'52	25°45'31
minimum elong	10693 Aug 22 12:00	9° \mathcal{M} 49'07	0°13'20		10694 Jul 06 01:14	0° \mathcal{E}	
behind sun begin	10693 Aug 22 08:48	9° \mathcal{M} 32'23			10694 Jul 24 20:33	0° Ω	
behind sun end	10693 Aug 22 15:11	10° \mathcal{M} 05'53		morning set	10694 Jul 27 17:36	5° Ω 10'37	
evening rise	10693 Aug 29 20:12	25° \mathcal{M} 22'28		max. Earth dist.	10694 Jul 31 11:12	12° Ω 08'55	1.35696 AU
	10693 Sep 01 01:33	0° \mathcal{L}					
evening max el	10693 Sep 18 22:58	28° \mathcal{L} 22'55	21°34'22	superior conj	10694 Aug 06 05:49	23° Ω 29'00	-0°17'04
	10693 Sep 20 17:16	0° \mathcal{M}		minimum elong	10694 Aug 06 06:51	23° Ω 34'15	0°17'14
desc. node	10693 Sep 23 21:16	2° \mathcal{M} 17'44		asc. node	10694 Aug 07 24:00	27° Ω 02'51	
retrograde	10693 Oct 01 05:43	4° \mathcal{M} 29'05			10694 Aug 09 10:36	0° \mathcal{M}	
evening set	10693 Oct 03 23:38	4° \mathcal{M} 11'55		evening rise	10694 Aug 14 03:22	9° \mathcal{M} 41'02	
inferior conj	10693 Oct 13 00:51	0° \mathcal{M} 15'34	-5°06'34		10694 Aug 25 00:05	0° \mathcal{L}	
minimum elong	10693 Oct 12 16:08	0° \mathcal{M} 27'45	5°04'36	evening max el	10694 Sep 01 01:49	9° \mathcal{L} 09'46	20°11'34
min. Earth dist.	10693 Oct 13 00:33	0° \mathcal{M} 15'59	0.54628 AU	desc. node	10694 Sep 10 18:35	14° \mathcal{L} 26'11	
	10693 Oct 13 11:59	30° $\mathcal{R}\mathcal{L}$		retrograde	10694 Sep 11 18:47	14° \mathcal{L} 28'54	
morning rise	10693 Oct 21 09:40	26° \mathcal{L} 26'50		evening set	10694 Sep 13 18:01	14° \mathcal{L} 18'54	
direct	10693 Oct 25 02:36	25° \mathcal{L} 57'04		inferior conj	10694 Sep 22 19:04	10° \mathcal{L} 20'28	-3°35'59
	10693 Nov 04 09:12	0° \mathcal{M}		minimum elong	10694 Sep 22 09:53	10° \mathcal{L} 34'05	3°32'53
morning max el	10693 Nov 06 13:27	1° \mathcal{M} 52'18	22°12'42	min. Earth dist.	10694 Sep 24 09:24	9° \mathcal{L} 23'38	0.54897 AU
asc. node	10693 Nov 17 03:45	15° \mathcal{M} 34'18		morning rise	10694 Oct 01 00:50	6° \mathcal{L} 12'30	
	10693 Nov 24 23:44	0° \mathcal{X}		direct	10694 Oct 05 12:31	5° \mathcal{L} 29'00	
morning set	10693 Nov 28 02:05	6° \mathcal{X} 24'17		morning max el	10694 Oct 19 01:54	12° \mathcal{L} 06'20	23°59'45
					10694 Nov 01 14:40	0° \mathcal{M}	
superior conj	10693 Dec 05 03:58	21° \mathcal{X} 28'50	1°36'44	asc. node	10694 Nov 04 00:39	4° \mathcal{M} 12'54	
minimum elong	10693 Dec 05 05:07	21° \mathcal{X} 34'57	1°37'13	morning set	10694 Nov 12 13:51	21° \mathcal{M} 12'13	
max. Earth dist.	10693 Dec 08 22:10	29° \mathcal{X} 18'22	1.34278 AU		10694 Nov 16 15:20	0° \mathcal{X}	
	10693 Dec 09 06:20	0° \mathcal{Z}					
evening rise	10693 Dec 13 08:16	8° \mathcal{Z} 06'30		superior conj	10694 Nov 19 10:44	6° \mathcal{X} 07'41	1°39'46
desc. node	10693 Dec 20 19:29	21° \mathcal{Z} 49'14		minimum elong	10694 Nov 19 10:42	6° \mathcal{X} 07'28	1°40'15
	10693 Dec 25 16:32	0° \approx		max. Earth dist.	10694 Nov 21 20:28	11° \mathcal{X} 19'03	1.32873 AU
	10694 Jan 17 09:41	0° \mathcal{H}		evening rise	10694 Nov 26 23:00	21° \mathcal{X} 56'33	
evening max el	10694 Jan 17 07:06	29° \approx 53'49	26°59'17		10694 Dec 01 01:50	0° \mathcal{Z}	
retrograde	10694 Jan 30 14:03	7° \mathcal{H} 15'45		desc. node	10694 Dec 07 16:31	11° \mathcal{Z} 53'14	
evening set	10694 Feb 06 04:38	4° \mathcal{H} 41'57			10694 Dec 19 12:20	0° \approx	
min. Earth dist.	10694 Feb 10 04:07	0° \mathcal{H} 49'40	0.65626 AU	evening max el	10694 Dec 30 19:29	13° \approx 13'42	27°27'42
	10694 Feb 10 21:41	30° $\mathcal{R}\approx$		retrograde	10695 Jan 13 11:22	20° \approx 36'01	
inferior conj	10694 Feb 12 06:49	28° \approx 24'48	-0°16'21	evening set	10695 Jan 20 09:26	18° \approx 05'13	
minimum elong	10694 Feb 12 07:17	28° \approx 23'30	0°15'49	min. Earth dist.	10695 Jan 24 04:26	14° \approx 44'34	0.63937 AU

inferior conj	10695 Jan 26 18:33	12° \approx 03'57	-1°23'49	min. Earth dist.	10696 Jan 06 18:56	28° \approx 04'38	0.61973 AU
minimum elong	10695 Jan 26 21:12	11° \approx 57'04	1°22'16	inferior conj	10696 Jan 09 18:25	25° \approx 20'10	-2°37'50
asc. node	10695 Jan 30 23:52	8° \approx 09'15		minimum elong	10696 Jan 09 23:43	25° \approx 07'57	2°35'17
morning rise	10695 Feb 02 10:57	6° \approx 43'42		morning rise	10696 Jan 17 00:10	20° \approx 17'31	
direct	10695 Feb 04 21:40	6° \approx 13'54		asc. node	10696 Jan 17 21:03	20° \approx 04'01	
morning max el	10695 Feb 11 08:49	9° \approx 34'35	17°49'10	direct	10696 Jan 19 05:16	19° \approx 56'01	
	10695 Feb 25 05:09	0° \approx		morning max el	10696 Jan 26 01:46	23° \approx 24'39	17°49'16
morning set	10695 Feb 28 01:36	4° \approx 51'05			10696 Jan 31 07:22	0° \approx	
desc. node	10695 Mar 05 16:43	14° \approx 22'38		morning set	10696 Feb 10 20:08	17° \approx 53'51	
					10696 Feb 17 15:58	0° \approx	
superior conj	10695 Mar 13 00:50	26° \approx 28'35	-0°53'01	desc. node	10696 Feb 20 13:26	5° \approx 00'37	
minimum elong	10695 Mar 12 19:07	26° \approx 05'23	0°52'09				
	10695 Mar 15 05:15	0° \approx		superior conj	10696 Feb 21 23:46	7° \approx 27'10	-0°10'51
max. Earth dist.	10695 Mar 18 10:51	5° \approx 09'23	1.44868 AU	minimum elong	10696 Feb 21 22:46	7° \approx 22'54	0°10'26
evening rise	10695 Mar 28 16:58	21° \approx 07'31		behind sun begin	10696 Feb 21 16:06	6° \approx 54'33	
	10695 Apr 03 12:56	0° \approx		behind sun end	10696 Feb 22 05:26	7° \approx 51'12	
	10695 Apr 25 06:07	0° \approx		max. Earth dist.	10696 Feb 29 02:27	19° \approx 15'26	1.43498 AU
evening max el	10695 Apr 25 17:28	0° \approx 29'14	20°23'42		10696 Mar 06 20:34	0° \approx	
asc. node	10695 Apr 28 21:44	3° \approx 15'47		evening rise	10696 Mar 07 08:11	0° \approx 45'17	
retrograde	10695 May 03 16:37	5° \approx 06'17			10696 Mar 27 03:00	0° \approx	
evening set	10695 May 07 16:29	3° \approx 34'31		evening max el	10696 Apr 07 14:26	14° \approx 12'57	21°35'00
	10695 May 11 02:18	30° \approx 8'8		asc. node	10696 Apr 14 18:58	19° \approx 15'21	
inferior conj	10695 May 12 23:32	27° \approx 28'58	3°12'59	retrograde	10696 Apr 16 14:53	19° \approx 31'42	
minimum elong	10695 May 12 22:38	27° \approx 32'04	3°12'28	evening set	10696 Apr 21 00:59	17° \approx 44'29	
min. Earth dist.	10695 May 13 17:00	26° \approx 29'09	0.67984 AU	inferior conj	10696 Apr 26 07:47	11° \approx 28'01	2°57'20
morning rise	10695 May 18 04:32	21° \approx 10'34		minimum elong	10696 Apr 26 06:06	11° \approx 33'55	2°56'42
direct	10695 May 23 18:40	18° \approx 41'35		min. Earth dist.	10696 Apr 26 12:04	11° \approx 13'06	0.68541 AU
desc. node	10695 Jun 01 17:28	23° \approx 13'42		morning rise	10696 May 01 11:00	5° \approx 14'01	
morning max el	10695 Jun 04 01:54	25° \approx 27'58	24°20'10	direct	10696 May 06 11:58	3° \approx 02'43	
	10695 Jun 08 04:52	0° \approx		morning max el	10696 May 16 12:14	8° \approx 58'33	22°50'13
	10695 Jun 29 13:18	0° \approx		desc. node	10696 May 18 14:21	11° \approx 11'18	
morning set	10695 Jul 09 17:44	16° \approx 51'41			10696 Jun 01 23:43	0° \approx	
max. Earth dist.	10695 Jul 13 09:26	23° \approx 19'22	1.37849 AU	morning set	10696 Jun 19 18:00	27° \approx 12'20	
	10695 Jul 17 00:56	0° \approx			10696 Jun 21 07:02	0° \approx	
superior conj	10695 Jul 20 11:24	6° \approx 30'20	-0°50'10	max. Earth dist.	10696 Jun 24 06:24	5° \approx 01'31	1.40148 AU
minimum elong	10695 Jul 20 14:44	6° \approx 46'19	0°50'03				
asc. node	10695 Jul 25 20:51	17° \approx 03'37		superior conj	10696 Jul 02 01:22	18° \approx 46'42	-1°23'04
evening rise	10695 Jul 29 04:51	23° \approx 41'00		minimum elong	10696 Jul 02 06:57	19° \approx 12'07	1°22'49
	10695 Aug 01 10:08	0° \approx			10696 Jul 08 02:13	0° \approx	
evening max el	10695 Aug 14 18:24	20° \approx 43'45	19°09'16	evening rise	10696 Jul 11 21:27	7° \approx 13'29	
retrograde	10695 Aug 23 19:33	25° \approx 13'56		asc. node	10696 Jul 11 17:44	6° \approx 55'51	
evening set	10695 Aug 25 15:59	25° \approx 03'23			10696 Jul 25 06:22	0° \approx	
desc. node	10695 Aug 28 15:53	24° \approx 05'42		evening max el	10696 Jul 27 21:58	3° \approx 00'53	18°28'11
inferior conj	10695 Sep 03 03:33	20° \approx 51'32	-1°42'34	retrograde	10696 Aug 04 14:43	6° \approx 52'28	
minimum elong	10695 Sep 02 23:04	20° \approx 59'08	1°40'56	evening set	10696 Aug 06 16:40	6° \approx 36'22	
min. Earth dist.	10695 Sep 05 22:20	18° \approx 59'04	0.56073 AU	inferior conj	10696 Aug 14 09:07	2° \approx 04'46	0°03'06
morning rise	10695 Sep 11 03:09	16° \approx 08'41		minimum elong	10696 Aug 14 09:13	2° \approx 04'34	0°02'45
direct	10695 Sep 16 10:22	15° \approx 03'32		transit middle	10696 Aug 14 09:13	2° \approx 04'34	0°02'45
morning max el	10695 Sep 30 13:59	22° \approx 16'09	25°41'58	transit begin	10696 Aug 14 05:42	2° \approx 11'31	
	10695 Oct 07 10:21	0° \approx		transit end	10696 Aug 14 12:44	1° \approx 57'36	
asc. node	10695 Oct 21 21:30	23° \approx 22'23		desc. node	10696 Aug 14 13:10	1° \approx 56'44	
	10695 Oct 25 05:22	0° \approx			10696 Aug 17 00:11	30° \approx 8'8	
morning set	10695 Oct 28 01:12	5° \approx 55'46		min. Earth dist.	10696 Aug 17 16:46	29° \approx 28'22	0.57938 AU
superior conj	10695 Nov 03 20:58	20° \approx 53'50	1°36'39	morning rise	10696 Aug 21 22:13	26° \approx 45'10	
minimum elong	10695 Nov 03 19:53	20° \approx 47'50	1°37'00	direct	10696 Aug 27 22:55	25° \approx 11'47	
max. Earth dist.	10695 Nov 05 01:24	23° \approx 30'43	1.31933 AU		10696 Sep 08 03:00	0° \approx	
	10695 Nov 08 00:48	0° \approx		morning max el	10696 Sep 11 07:14	2° \approx 49'33	27°02'07
evening rise	10695 Nov 10 22:23	6° \approx 08'32			10696 Sep 30 22:06	0° \approx	
	10695 Nov 23 15:15	0° \approx		asc. node	10696 Oct 07 18:18	12° \approx 54'07	
desc. node	10695 Nov 24 13:35	1° \approx 32'21		morning set	10696 Oct 11 10:26	20° \approx 29'52	
evening max el	10695 Dec 13 04:45	26° \approx 01'03	27°26'13		10696 Oct 15 19:19	0° \approx	
	10695 Dec 18 01:13	0° \approx		superior conj	10696 Oct 18 08:38	5° \approx 40'46	1°27'49
retrograde	10695 Dec 27 01:26	3° \approx 18'08		minimum elong	10696 Oct 18 06:48	5° \approx 30'28	1°27'55
evening set	10696 Jan 03 01:48	0° \approx 59'12		max. Earth dist.	10696 Oct 18 10:06	5° \approx 48'53	1.31477 AU
	10696 Jan 04 11:18	30° \approx 8'8		evening rise	10696 Oct 25 03:50	20° \approx 35'08	
					10696 Oct 29 17:47	0° \approx	

desc. node	10696 Nov 10 10:45	20°♊36'34		desc. node	10697 Oct 28 07:58	8°♊51'54	
	10696 Nov 17 02:45	0°♊		evening max el	10697 Nov 06 04:15	19°♊15'41	25°42'30
evening max el	10696 Nov 24 08:28	8°♊04'21	26°50'54	retrograde	10697 Nov 20 01:40	26°♊16'19	
retrograde	10696 Dec 08 06:54	15°♊13'19		evening set	10697 Nov 26 05:06	24°♊48'43	
evening set	10696 Dec 15 01:56	13°♊16'00		min. Earth dist.	10697 Nov 30 16:40	22°♊12'07	0.57794 AU
min. Earth dist.	10696 Dec 18 22:51	10°♊37'47	0.59860 AU	inferior conj	10697 Dec 03 16:46	20°♊06'19	-5°00'42
inferior conj	10696 Dec 22 02:59	8°♊04'30	-3°53'30	minimum elong	10697 Dec 04 00:25	19°♊52'56	4°58'32
minimum elong	10696 Dec 22 10:33	7°♊49'13	3°50'32	morning rise	10697 Dec 11 22:06	15°♊46'40	
morning rise	10696 Dec 29 21:52	3°♊22'18		direct	10697 Dec 14 03:57	15°♊30'58	
direct	10697 Jan 01 00:49	3°♊05'24		asc. node	10697 Dec 21 15:13	18°♊38'13	
asc. node	10697 Jan 03 18:09	3°♊34'32		morning max el	10697 Dec 22 19:53	19°♊42'56	18°48'25
morning max el	10697 Jan 08 14:45	6°♊51'14	18°08'25		10697 Dec 30 12:32	0°♊	
	10697 Jan 23 08:55	0°♊		morning set	10698 Jan 08 03:41	15°♊56'43	
morning set	10697 Jan 24 06:29	1°♊40'57			10698 Jan 15 08:57	0°♊	
superior conj	10697 Feb 02 22:50	19°♋33'48	0°26'32	superior conj	10698 Jan 16 17:38	2°♋35'23	0°56'22
minimum elong	10697 Feb 03 00:50	19°♋42'46	0°26'38	minimum elong	10698 Jan 16 20:41	2°♋49'48	0°56'25
desc. node	10697 Feb 06 10:12	25°♋42'14		max. Earth dist.	10698 Jan 23 21:22	15°♋40'47	1.39474 AU
	10697 Feb 08 22:00	0°♋		desc. node	10698 Jan 24 07:01	16°♋23'20	
max. Earth dist.	10697 Feb 10 13:48	2°♋48'29	1.41631 AU	evening rise	10698 Jan 27 20:02	22°♋30'16	
evening rise	10697 Feb 15 15:32	11°♋09'55			10698 Feb 01 08:32	0°♋	
	10697 Feb 27 20:27	0°♋			10698 Feb 21 18:59	0°♋	
evening max el	10697 Mar 21 07:06	27°♋59'22	22°53'41	evening max el	10698 Mar 03 21:14	11°♋48'16	24°13'56
	10697 Mar 23 10:23	0°♋		retrograde	10698 Mar 15 03:49	18°♋25'00	
retrograde	10697 Mar 31 11:02	3°♋59'45		asc. node	10698 Mar 19 13:28	16°♋55'35	
asc. node	10697 Apr 01 16:12	3°♋52'37		evening set	10698 Mar 20 13:11	16°♋09'38	
evening set	10697 Apr 05 08:24	1°♋57'45		min. Earth dist.	10698 Mar 25 04:53	10°♋48'44	0.68327 AU
	10697 Apr 07 07:19	30°♋		inferior conj	10698 Mar 26 01:08	9°♋40'30	1°56'38
inferior conj	10697 Apr 10 16:57	25°♋33'10	2°31'42	minimum elong	10698 Mar 25 23:00	9°♋47'42	1°55'55
minimum elong	10697 Apr 10 14:49	25°♋40'33	2°30'59	morning rise	10698 Mar 31 08:53	3°♋39'31	
min. Earth dist.	10697 Apr 10 08:46	26°♋01'31	0.68652 AU	direct	10698 Apr 04 07:27	2°♋11'07	
morning rise	10697 Apr 15 21:07	19°♋25'01		morning max el	10698 Apr 12 00:04	6°♋30'45	20°09'37
direct	10697 Apr 20 08:40	17°♋34'46		desc. node	10698 Apr 22 07:58	19°♋24'49	
morning max el	10697 Apr 29 02:37	22°♋38'34	21°24'35		10698 Apr 29 14:38	0°♋	
desc. node	10697 May 05 11:10	29°♋59'43		morning set	10698 May 09 17:46	15°♋22'05	
	10697 May 05 11:16	0°♋			10698 May 19 01:57	0°♋	
	10697 May 26 06:58	0°♋		max. Earth dist.	10698 May 19 18:31	1°♋06'06	1.44065 AU
morning set	10697 May 30 15:48	6°♋49'17		superior conj	10698 May 25 13:11	10°♋27'11	-2°09'52
max. Earth dist.	10697 Jun 06 08:46	17°♋37'34	1.42311 AU	minimum elong	10698 May 25 16:53	10°♋42'19	2°10'15
superior conj	10697 Jun 13 19:12	0°♌08'16	-1°51'35		10698 Jun 06 03:49	0°♌	
minimum elong	10697 Jun 14 01:38	0°♌36'02	1°51'34	evening rise	10698 Jun 07 11:25	2°♌16'09	
	10697 Jun 13 17:17	0°♌		asc. node	10698 Jun 15 11:43	15°♌56'41	
evening rise	10697 Jun 25 01:13	20°♌08'59		evening max el	10698 Jun 24 22:00	29°♌06'37	18°05'51
asc. node	10697 Jun 28 14:42	26°♌35'23			10698 Jun 25 21:02	0°♌	
	10697 Jun 30 12:44	0°♌		retrograde	10698 Jul 01 07:55	2°♌27'02	
evening max el	10697 Jul 11 08:27	15°♌51'53	18°07'23	evening set	10698 Jul 04 01:27	1°♌49'23	
retrograde	10697 Jul 18 04:11	19°♌20'15			10698 Jul 06 20:42	30°♌	
evening set	10697 Jul 20 13:53	18°♌54'44		inferior conj	10698 Jul 10 08:24	26°♌37'59	2°22'35
inferior conj	10697 Jul 27 11:52	14°♌02'23	1°25'33	minimum elong	10698 Jul 10 11:07	26°♌30'50	2°21'23
minimum elong	10697 Jul 27 14:16	13°♌56'51	1°24'19	min. Earth dist.	10698 Jul 13 05:25	23°♌37'40	0.62406 AU
min. Earth dist.	10697 Jul 30 18:33	11°♌02'35	0.60156 AU	morning rise	10698 Jul 16 18:47	20°♌29'45	
desc. node	10697 Aug 01 10:24	9°♌39'58		desc. node	10698 Jul 19 07:35	18°♌59'43	
morning rise	10697 Aug 03 11:43	8°♌13'20		direct	10698 Jul 23 11:42	18°♌03'41	
direct	10697 Aug 10 00:03	6°♌11'00		morning max el	10698 Aug 06 14:17	26°♌05'55	27°55'32
morning max el	10697 Aug 24 07:40	14°♌04'55	27°48'05		10698 Aug 10 05:14	0°♌	
	10697 Sep 06 02:33	0°♌			10698 Aug 30 16:19	0°♌	
	10697 Sep 23 07:19	0°♌		morning set	10698 Sep 09 15:17	18°♌51'06	
asc. node	10697 Sep 24 15:05	2°♌41'55		asc. node	10698 Sep 11 11:53	22°♌40'37	
morning set	10697 Sep 25 15:48	4°♌50'02			10698 Sep 14 22:43	0°♌	
max. Earth dist.	10697 Oct 01 19:07	18°♌05'29	1.31514 AU	max. Earth dist.	10698 Sep 15 00:33	0°♌09'56	1.32042 AU
superior conj	10697 Oct 02 19:57	20°♌23'02	1°13'33	superior conj	10698 Sep 17 05:04	4°♌55'26	0°54'06
minimum elong	10697 Oct 02 17:43	20°♌10'42	1°13'22	minimum elong	10698 Sep 17 02:57	4°♌43'54	0°53'43
	10697 Oct 07 04:05	0°♌		evening rise	10698 Sep 24 00:27	19°♌48'44	
evening rise	10697 Oct 09 13:11	5°♌10'23			10698 Sep 28 22:11	0°♌	
	10697 Oct 22 11:58	0°♌		desc. node	10698 Oct 15 05:14	25°♌59'49	

evening max el	10698 Oct 18 16:31	29° \mathbb{M} 41'22	24°09'55	evening rise	10699 Sep 08 11:40	4° \mathbb{Q} 23'41	
	10698 Oct 19 00:21	0° \mathbb{X}			10699 Sep 22 06:05	0° \mathbb{M}	
retrograde	10698 Nov 01 08:29	6° \mathbb{X} 31'48		evening max el	10699 Sep 30 03:39	9° \mathbb{M} 47'57	22°29'17
evening set	10698 Nov 06 07:56	5° \mathbb{X} 37'23		desc. node	10699 Oct 02 02:32	11° \mathbb{M} 34'26	
min. Earth dist.	10698 Nov 12 03:16	2° \mathbb{X} 43'27	0.56040 AU	retrograde	10699 Oct 13 03:27	16° \mathbb{M} 16'05	
inferior conj	10698 Nov 14 10:04	1° \mathbb{X} 19'28	-5°42'02	evening set	10699 Oct 16 15:08	15° \mathbb{M} 49'19	
minimum elong	10698 Nov 14 13:11	1° \mathbb{X} 14'39	5°41'21	min. Earth dist.	10699 Oct 24 10:49	12° \mathbb{M} 20'05	0.54898 AU
	10698 Nov 16 15:01	30° \mathbb{R} \mathbb{M}		inferior conj	10699 Oct 25 09:42	11° \mathbb{M} 47'41	-5°36'18
morning rise	10698 Nov 22 20:30	27° \mathbb{M} 20'54		minimum elong	10699 Oct 25 04:38	11° \mathbb{M} 54'52	5°35'28
direct	10698 Nov 25 11:38	27° \mathbb{M} 02'56		morning rise	10699 Nov 02 19:47	8° \mathbb{M} 00'12	
	10698 Dec 03 09:52	0° \mathbb{X}		direct	10699 Nov 06 02:01	7° \mathbb{M} 36'08	
morning max el	10698 Dec 05 13:34	1° \mathbb{X} 50'09	19°50'51	morning max el	10699 Nov 17 17:40	13° \mathbb{M} 06'19	21°15'35
asc. node	10698 Dec 08 12:14	5° \mathbb{X} 02'00		asc. node	10699 Nov 25 09:12	22° \mathbb{M} 29'17	
morning set	10698 Dec 23 08:05	0° \mathbb{Z} 30'40			10699 Nov 29 22:27	0° \mathbb{X}	
	10698 Dec 23 02:01	0° \mathbb{Z}		morning set	10699 Dec 07 16:57	15° \mathbb{X} 14'33	
superior conj	10698 Dec 31 03:20	16° \mathbb{Z} 18'26	1°18'03	superior conj	10699 Dec 14 23:42	0° \mathbb{Z} 30'30	1°31'58
minimum elong	10698 Dec 31 06:07	16° \mathbb{Z} 32'15	1°18'16	minimum elong	10699 Dec 15 01:32	0° \mathbb{Z} 39'59	1°32'23
max. Earth dist.	10699 Jan 06 03:40	27° \mathbb{Z} 54'50	1.37276 AU		10699 Dec 14 17:49	0° \mathbb{Z}	
	10699 Jan 07 06:39	0° \approx		max. Earth dist.	10699 Dec 19 13:36	9° \mathbb{Z} 48'05	1.35269 AU
evening rise	10699 Jan 09 21:11	4° \approx 43'54		evening rise	10699 Dec 23 15:48	17° \mathbb{Z} 42'34	
desc. node	10699 Jan 11 03:56	7° \approx 00'22		desc. node	10699 Dec 29 00:53	27° \mathbb{Z} 28'51	
	10699 Jan 25 08:05	0° \mathbb{H}			10699 Dec 30 11:45	0° \approx	
evening max el	10699 Feb 14 10:29	25° \mathbb{H} 37'56	25°29'01		10700 Jan 19 14:52	0° \mathbb{H}	
	10699 Feb 19 14:14	0° \mathbb{Y}		evening max el	10700 Jan 27 23:54	9° \mathbb{H} 23'58	26°31'48
retrograde	10699 Feb 26 16:19	2° \mathbb{Y} 41'45		retrograde	10700 Feb 09 23:43	16° \mathbb{H} 43'11	
evening set	10699 Mar 04 13:47	0° \mathbb{Y} 15'39		evening set	10700 Feb 16 08:26	14° \mathbb{H} 10'36	
	10699 Mar 04 21:02	30° \mathbb{R} \mathbb{H}		min. Earth dist.	10700 Feb 20 10:53	9° \mathbb{H} 59'01	0.66437 AU
asc. node	10699 Mar 06 10:43	28° \mathbb{H} 27'12		asc. node	10700 Feb 21 07:58	8° \mathbb{H} 56'05	
min. Earth dist.	10699 Mar 08 22:18	25° \mathbb{H} 29'45	0.67580 AU	inferior conj	10700 Feb 22 06:52	7° \mathbb{H} 46'59	0°18'40
inferior conj	10699 Mar 10 06:27	23° \mathbb{H} 46'28	1°12'17	minimum elong	10700 Feb 22 06:22	7° \mathbb{H} 48'30	0°18'43
minimum elong	10699 Mar 10 04:49	23° \mathbb{H} 51'43	1°11'48	morning rise	10700 Feb 28 05:17	2° \mathbb{H} 04'58	
morning rise	10699 Mar 15 20:18	17° \mathbb{H} 54'04		direct	10700 Mar 03 05:11	1° \mathbb{H} 14'44	
direct	10699 Mar 19 06:51	16° \mathbb{H} 46'11		morning max el	10700 Mar 09 17:23	4° \mathbb{H} 43'28	18°24'42
morning max el	10699 Mar 26 05:24	20° \mathbb{H} 34'02	19°09'05	desc. node	10700 Mar 27 01:29	29° \mathbb{H} 28'39	
	10699 Apr 02 20:51	0° \mathbb{Y}			10700 Mar 27 09:23	0° \mathbb{Y}	
greatest brilliancy	10699 Apr 08 07:35	7° \mathbb{Y} 57'14	-0.7m	morning set	10700 Mar 29 20:01	3° \mathbb{Y} 52'49	
desc. node	10699 Apr 09 04:44	9° \mathbb{Y} 16'51		superior conj	10700 Apr 14 15:04	28° \mathbb{Y} 45'41	-1°52'26
morning set	10699 Apr 18 20:02	24° \mathbb{Y} 03'20		minimum elong	10700 Apr 14 06:03	28° \mathbb{Y} 10'28	1°51'58
	10699 Apr 22 16:09	0° \mathbb{B}		max. Earth dist.	10700 Apr 15 04:45	29° \mathbb{Y} 39'10	1.45664 AU
max. Earth dist.	10699 May 02 09:58	15° \mathbb{B} 11'56	1.45219 AU		10700 Apr 15 10:05	0° \mathbb{B}	
superior conj	10699 May 05 08:18	19° \mathbb{B} 49'12	-2°11'18	evening rise	10700 Apr 30 11:34	23° \mathbb{B} 36'20	
minimum elong	10699 May 05 05:04	19° \mathbb{B} 36'27	2°11'37		10700 May 04 12:57	0° \mathbb{I}	
	10699 May 11 17:29	0° \mathbb{I}		greatest brilliancy	10700 May 10 06:43	8° \mathbb{I} 58'54	-0.8m
evening rise	10699 May 19 23:27	13° \mathbb{I} 25'18		asc. node	10700 May 20 05:55	23° \mathbb{I} 15'45	
	10699 May 30 03:55	0° \mathbb{Q}		evening max el	10700 May 22 21:54	26° \mathbb{I} 15'09	18°57'15
asc. node	10699 Jun 02 08:47	4° \mathbb{Q} 52'49			10700 May 29 11:41	0° \mathbb{Q}	
evening max el	10699 Jun 08 11:20	12° \mathbb{Q} 36'16	18°22'45	retrograde	10700 May 29 16:24	0° \mathbb{Q} 00'13	
retrograde	10699 Jun 14 21:15	16° \mathbb{Q} 02'43			10700 May 29 21:05	30° \mathbb{R} \mathbb{I}	
evening set	10699 Jun 17 22:38	15° \mathbb{Q} 11'04		evening set	10700 Jun 02 01:59	28° \mathbb{I} 53'23	
inferior conj	10699 Jun 23 18:32	9° \mathbb{Q} 42'36	2°57'32	inferior conj	10700 Jun 07 14:30	23° \mathbb{I} 09'31	3°14'31
minimum elong	10699 Jun 23 20:29	9° \mathbb{Q} 36'52	2°56'40	minimum elong	10700 Jun 07 15:19	23° \mathbb{I} 06'55	3°13'55
min. Earth dist.	10699 Jun 26 01:47	7° \mathbb{Q} 01'37	0.64463 AU	min. Earth dist.	10700 Jun 09 06:46	21° \mathbb{I} 02'04	0.66177 AU
morning rise	10699 Jun 29 17:09	3° \mathbb{Q} 24'34		morning rise	10700 Jun 13 04:00	16° \mathbb{I} 48'24	
direct	10699 Jul 06 08:09	0° \mathbb{Q} 44'01		direct	10700 Jun 19 12:01	14° \mathbb{I} 04'32	
desc. node	10699 Jul 06 04:44	0° \mathbb{Q} 44'05		desc. node	10700 Jun 23 01:49	14° \mathbb{I} 48'35	
morning max el	10699 Jul 20 00:22	8° \mathbb{Q} 44'06	27°26'45	morning max el	10700 Jul 02 11:09	21° \mathbb{I} 47'57	26°28'35
	10699 Aug 05 13:10	0° \mathbb{Q}			10700 Jul 09 14:43	0° \mathbb{Q}	
	10699 Aug 23 00:26	0° \mathbb{P}			10700 Jul 29 18:32	0° \mathbb{Q}	
morning set	10699 Aug 24 06:16	2° \mathbb{P} 25'16		morning set	10700 Aug 07 09:34	15° \mathbb{Q} 24'20	
max. Earth dist.	10699 Aug 28 22:21	11° \mathbb{P} 51'12	1.33073 AU	max. Earth dist.	10700 Aug 11 09:46	23° \mathbb{Q} 07'15	1.34608 AU
asc. node	10699 Aug 29 08:41	12° \mathbb{P} 44'53			10700 Aug 14 20:08	0° \mathbb{P}	
superior conj	10699 Sep 01 09:53	19° \mathbb{P} 11'09	0°29'45	superior conj	10700 Aug 16 08:06	3° \mathbb{P} 04'21	0°01'04
minimum elong	10699 Sep 01 08:29	19° \mathbb{P} 03'39	0°29'18	minimum elong	10700 Aug 16 08:03	3° \mathbb{P} 04'08	0°00'45
	10699 Sep 06 10:25	0° \mathbb{Q}		behind sun begin	10700 Aug 16 02:12	2° \mathbb{P} 33'54	

behind sun end	10700 Aug 16 13:55	3° \mathbb{M} 34'25		superior conj	10701 Jul 30 20:46	16° Ω 27'11	-0°30'57
asc. node	10700 Aug 16 05:31	2° \mathbb{M} 51'00		minimum elong	10701 Jul 30 22:44	16° Ω 36'53	0°30'59
evening rise	10700 Aug 23 20:57	18° \mathbb{M} 50'07		asc. node	10701 Aug 03 02:22	22° Ω 54'52	
	10700 Aug 29 09:56	0° \mathbb{L}			10701 Aug 06 14:11	0° \mathbb{M}	
evening max el	10700 Sep 11 23:09	20° \mathbb{L} 13'10	20°56'51	evening rise	10701 Aug 08 02:00	3° \mathbb{M} 01'41	
desc. node	10700 Sep 18 23:49	25° \mathbb{L} 06'01			10701 Aug 24 01:38	0° \mathbb{L}	
retrograde	10700 Sep 23 15:03	26° \mathbb{L} 00'13		evening max el	10701 Aug 25 08:06	1° \mathbb{L} 20'21	19°42'26
evening set	10700 Sep 25 22:34	25° \mathbb{L} 47'30		retrograde	10701 Sep 04 07:20	6° \mathbb{L} 17'23	
inferior conj	10700 Oct 05 01:45	21° \mathbb{L} 52'13	-4°33'08	desc. node	10701 Sep 05 21:04	6° \mathbb{L} 10'31	
minimum elong	10700 Oct 04 15:53	22° \mathbb{L} 06'12	4°30'22	evening set	10701 Sep 06 04:04	6° \mathbb{L} 07'47	
min. Earth dist.	10700 Oct 05 18:42	21° \mathbb{L} 28'09	0.54626 AU	inferior conj	10701 Sep 15 00:38	2° \mathbb{L} 05'00	-2°48'33
morning rise	10700 Oct 13 09:22	17° \mathbb{L} 57'24		minimum elong	10701 Sep 14 17:08	2° \mathbb{L} 16'38	2°45'50
direct	10700 Oct 17 10:09	17° \mathbb{L} 22'27		min. Earth dist.	10701 Sep 17 04:56	0° \mathbb{L} 43'46	0.55302 AU
morning max el	10700 Oct 30 09:55	23° \mathbb{L} 36'57	22°57'38		10701 Sep 18 10:15	30° \mathbb{R} \mathbb{M}	
	10700 Nov 05 02:49	0° \mathbb{M}		morning rise	10701 Sep 23 04:19	27° \mathbb{M} 43'39	
asc. node	10700 Nov 12 06:07	10° \mathbb{M} 45'34		direct	10701 Sep 28 00:42	26° \mathbb{M} 51'42	
morning set	10700 Nov 22 04:10	0° \mathbb{X} 02'26			10701 Oct 07 05:45	0° \mathbb{L}	
	10700 Nov 22 03:42	0° \mathbb{X}		morning max el	10701 Oct 11 21:02	3° \mathbb{L} 44'43	24°44'51
				asc. node	10701 Oct 30 02:59	29° \mathbb{L} 38'53	
superior conj	10700 Nov 29 03:26	15° \mathbb{X} 01'54	1°38'47		10701 Oct 30 07:31	0° \mathbb{M}	
minimum elong	10700 Nov 29 04:05	15° \mathbb{X} 05'20	1°39'18	morning set	10701 Nov 06 15:58	14° \mathbb{M} 49'29	
max. Earth dist.	10700 Dec 02 07:09	21° \mathbb{X} 42'41	1.33624 AU				
	10700 Dec 06 08:41	0° \mathbb{Z}		superior conj	10701 Nov 13 11:57	29° \mathbb{M} 44'58	1°39'09
evening rise	10700 Dec 07 00:13	1° \mathbb{Z} 16'48		minimum elong	10701 Nov 13 11:26	29° \mathbb{M} 42'10	1°39'37
desc. node	10700 Dec 15 21:53	17° \mathbb{Z} 43'42			10701 Nov 13 14:41	0° \mathbb{X}	
	10700 Dec 23 11:03	0° \mathbb{Z}		max. Earth dist.	10701 Nov 15 08:45	3° \mathbb{X} 49'29	1.32418 AU
evening max el	10701 Jan 10 13:14	22° \mathbb{Z} 57'27	27°14'50	evening rise	10701 Nov 20 19:01	15° \mathbb{X} 17'51	
	10701 Jan 21 09:45	0° \mathbb{X}			10701 Nov 28 09:46	0° \mathbb{Z}	
retrograde	10701 Jan 24 00:56	0° \mathbb{X} 20'48		desc. node	10701 Dec 02 18:56	7° \mathbb{Z} 38'41	
	10701 Jan 26 13:35	30° \mathbb{R} \mathbb{Z}			10701 Dec 18 08:02	0° \mathbb{Z}	
evening set	10701 Jan 30 18:58	27° \mathbb{Z} 47'34		evening max el	10701 Dec 24 00:52	6° \mathbb{Z} 06'27	27°31'09
min. Earth dist.	10701 Feb 03 16:25	24° \mathbb{Z} 08'53	0.64936 AU	retrograde	10702 Jan 06 19:07	13° \mathbb{Z} 26'15	
inferior conj	10701 Feb 06 00:00	21° \mathbb{Z} 36'08	-0°44'00	evening set	10702 Jan 13 18:53	10° \mathbb{Z} 59'44	
minimum elong	10701 Feb 06 01:19	21° \mathbb{Z} 32'31	0°43'04	min. Earth dist.	10702 Jan 17 12:49	7° \mathbb{Z} 50'52	0.63129 AU
asc. node	10701 Feb 08 05:11	19° \mathbb{Z} 15'15		inferior conj	10702 Jan 20 07:08	5° \mathbb{Z} 07'19	-1°54'35
morning rise	10701 Feb 12 09:16	16° \mathbb{Z} 06'50		minimum elong	10702 Jan 20 10:53	4° \mathbb{Z} 58'02	1°52'35
direct	10701 Feb 15 00:12	15° \mathbb{Z} 30'39		asc. node	10702 Jan 26 02:21	0° \mathbb{Z} 23'36	
morning max el	10701 Feb 21 09:36	18° \mathbb{Z} 51'29	17°57'09		10702 Jan 26 22:42	30° \mathbb{R} \mathbb{Z}	
	10701 Mar 01 18:22	0° \mathbb{X}		morning rise	10702 Jan 27 05:05	29° \mathbb{Z} 53'52	
morning set	10701 Mar 11 01:10	15° \mathbb{X} 08'47		direct	10702 Jan 29 13:10	29° \mathbb{Z} 27'56	
desc. node	10701 Mar 13 22:13	19° \mathbb{X} 54'02			10702 Feb 01 02:56	0° \mathbb{Z}	
	10701 Mar 20 02:39	0° \mathbb{Y}		morning max el	10702 Feb 05 03:13	2° \mathbb{Z} 50'48	17°46'58
				morning set	10702 Feb 21 07:59	27° \mathbb{Z} 39'00	
superior conj	10701 Mar 25 03:15	8° \mathbb{Y} 03'12	-1°17'09	desc. node	10702 Feb 22 16:27	0° \mathbb{X}	
minimum elong	10701 Mar 24 18:59	7° \mathbb{Y} 30'19	1°16'10		10702 Feb 28 18:58	10° \mathbb{X} 28'55	
max. Earth dist.	10701 Mar 29 00:29	14° \mathbb{Y} 11'39	1.45367 AU				
	10701 Apr 08 04:26	0° \mathbb{Z}		superior conj	10702 Mar 05 11:49	18° \mathbb{X} 20'55	-0°34'52
evening rise	10701 Apr 10 04:47	3° \mathbb{Z} 06'05		minimum elong	10702 Mar 05 08:12	18° \mathbb{X} 06'00	0°34'09
greatest brilliancy	10701 Apr 24 11:50	24° \mathbb{Z} 44'23	-0.6m	max. Earth dist.	10702 Mar 11 18:46	28° \mathbb{X} 33'57	1.44363 AU
	10701 Apr 28 03:41	0° \mathbb{H}			10702 Mar 12 16:21	0° \mathbb{Y}	
evening max el	10701 May 06 03:43	9° \mathbb{H} 57'31	19°48'02	evening rise	10702 Mar 20 16:20	12° \mathbb{Y} 30'36	
asc. node	10701 May 07 03:05	10° \mathbb{H} 53'58			10702 Apr 01 07:04	0° \mathbb{Z}	
retrograde	10701 May 13 14:24	14° \mathbb{H} 12'35		evening max el	10702 Apr 19 03:54	23° \mathbb{Z} 41'04	20°52'45
evening set	10701 May 17 08:52	12° \mathbb{H} 49'55		asc. node	10702 Apr 24 00:16	27° \mathbb{Z} 34'09	
inferior conj	10701 May 22 17:09	6° \mathbb{H} 51'57	3°17'04	retrograde	10702 Apr 27 13:05	28° \mathbb{Z} 34'53	
minimum elong	10701 May 22 16:49	6° \mathbb{H} 53'03	3°16'33	evening set	10702 May 01 17:18	26° \mathbb{Z} 56'19	
min. Earth dist.	10701 May 23 18:42	5° \mathbb{H} 26'23	0.67462 AU	inferior conj	10702 May 06 23:59	20° \mathbb{Z} 45'56	3°07'36
morning rise	10701 May 28 00:26	0° \mathbb{H} 32'01		minimum elong	10702 May 06 22:42	20° \mathbb{Z} 50'20	3°07'02
	10701 May 28 15:24	30° \mathbb{R} \mathbb{Z}		min. Earth dist.	10702 May 07 11:41	20° \mathbb{Z} 05'25	0.68284 AU
direct	10701 Jun 02 21:50	27° \mathbb{Z} 55'09		morning rise	10702 May 12 03:54	14° \mathbb{Z} 29'28	
	10701 Jun 08 20:35	0° \mathbb{H}		direct	10702 May 17 12:35	12° \mathbb{Z} 07'31	
desc. node	10701 Jun 09 22:49	0° \mathbb{H} 45'00		desc. node	10702 May 27 19:45	18° \mathbb{Z} 05'13	
morning max el	10701 Jun 14 21:02	5° \mathbb{H} 05'47	25°10'18	morning max el	10702 May 28 06:38	18° \mathbb{Z} 32'23	23°41'55
	10701 Jul 04 01:01	0° \mathbb{Z}			10702 Jun 06 21:46	0° \mathbb{H}	
morning set	10701 Jul 20 20:58	27° \mathbb{Z} 37'04			10702 Jun 27 03:30	0° \mathbb{Z}	
	10701 Jul 22 04:41	0° \mathbb{L}		morning set	10702 Jul 02 11:30	8° \mathbb{Z} 51'05	
max. Earth dist.	10701 Jul 24 11:24	4° \mathbb{L} 11'18	1.36583 AU	max. Earth dist.	10702 Jul 06 08:39	15° \mathbb{Z} 33'38	1.38832 AU

superior conj	10702 Jul 13 20:17	29°☿10'51	-1°04'21		10703 Jun 19 17:07	0°☿	
minimum elong	10702 Jul 14 00:37	29°☿31'16	1°04'08				
	10702 Jul 14 06:43	0°♌		superior conj	10703 Jun 26 02:16	11°☿05'16	-1°35'59
asc. node	10702 Jul 20 23:14	12°♌52'43		minimum elong	10703 Jun 26 08:30	11°☿33'02	1°35'48
evening rise	10702 Jul 23 00:08	16°♌51'22		evening rise	10703 Jul 06 11:54	0°♌10'10	
	10702 Jul 29 23:29	0°♍			10703 Jul 06 09:43	0°♌	
evening max el	10702 Aug 08 05:47	13°♍13'32	18°49'10	asc. node	10703 Jul 07 20:10	2°♌40'31	
retrograde	10702 Aug 16 15:47	17°♍25'46		evening max el	10703 Jul 22 12:46	25°♌46'31	18°16'54
evening set	10702 Aug 18 14:06	17°♍13'19		retrograde	10703 Jul 29 19:23	29°♌26'46	
desc. node	10702 Aug 23 18:22	14°♍55'30		evening set	10703 Aug 01 00:23	29°♌07'12	
inferior conj	10702 Aug 26 17:42	12°♍53'00	-0°55'28	inferior conj	10703 Aug 08 08:40	24°♌26'35	0°41'10
minimum elong	10702 Aug 26 15:23	12°♍57'11	0°54'46	minimum elong	10703 Aug 08 10:02	24°♌23'41	0°40'18
min. Earth dist.	10702 Aug 29 19:41	10°♍40'07	0.56802 AU	desc. node	10703 Aug 10 15:37	22°♌29'55	
morning rise	10702 Sep 03 13:21	7°♍54'18		min. Earth dist.	10703 Aug 11 17:13	21°♌37'23	0.58850 AU
direct	10702 Sep 09 04:24	6°♍37'59		morning rise	10703 Aug 15 16:16	18°♌52'53	
morning max el	10702 Sep 23 10:52	14°♍01'40	26°19'46	direct	10703 Aug 21 22:29	17°♌07'06	
	10702 Oct 06 03:32	0°♎		morning max el	10703 Sep 05 07:30	24°♌53'16	27°26'20
asc. node	10702 Oct 16 23:49	18°♎59'02			10703 Sep 10 00:26	0°♍	
morning set	10702 Oct 22 02:39	29°♎29'59			10703 Sep 29 10:45	0°♎	
	10702 Oct 22 08:16	0°♏		asc. node	10703 Oct 03 20:38	8°♎38'45	
				morning set	10703 Oct 06 10:30	13°♎59'22	
superior conj	10702 Oct 28 23:01	14°♏32'14	1°33'35	superior conj	10703 Oct 13 10:47	29°♎18'10	1°22'25
minimum elong	10702 Oct 28 21:34	14°♏24'11	1°33'50	minimum elong	10703 Oct 13 08:43	29°♎06'42	1°22'24
max. Earth dist.	10702 Oct 29 15:57	16°♏06'13	1.31682 AU	max. Earth dist.	10703 Oct 13 01:17	28°♎25'20	1.31432 AU
evening rise	10702 Nov 04 21:16	29°♏37'00			10703 Oct 13 18:18	0°♏	
	10702 Nov 05 01:39	0°♐		evening rise	10703 Oct 20 04:39	14°♏08'02	
desc. node	10702 Nov 19 16:02	27°♐04'39			10703 Oct 28 02:11	0°♐	
	10702 Nov 21 12:47	0°♑		desc. node	10703 Nov 06 13:13	15°♐50'09	
evening max el	10702 Dec 06 08:06	18°♑36'23	27°15'22		10703 Nov 18 01:15	0°♑	
retrograde	10702 Dec 20 05:23	25°♑49'35		evening max el	10703 Nov 18 08:21	0°♑16'54	26°25'22
evening set	10702 Dec 27 04:49	23°♑38'31		retrograde	10703 Dec 02 06:41	7°♑23'01	
min. Earth dist.	10702 Dec 30 22:35	20°♑52'41	0.61089 AU	evening set	10703 Dec 08 20:38	5°♑37'09	
inferior conj	10703 Jan 03 00:55	18°♑11'06	-3°10'09	min. Earth dist.	10703 Dec 12 21:52	3°♑01'54	0.58964 AU
minimum elong	10703 Jan 03 07:18	17°♑57'09	3°07'19	inferior conj	10703 Dec 16 01:49	0°♑37'59	-4°23'54
morning rise	10703 Jan 10 12:24	13°♑16'53		minimum elong	10703 Dec 16 09:50	0°♑22'44	4°21'06
direct	10703 Jan 12 16:14	12°♑57'39			10703 Dec 16 21:55	30°♒♐	
asc. node	10703 Jan 12 23:29	12°♑58'02		morning rise	10703 Dec 24 01:43	26°♐05'40	
morning max el	10703 Jan 19 18:55	16°♑32'04	17°55'02	direct	10703 Dec 26 05:07	25°♐49'46	
	10703 Jan 29 06:03	0°♒		asc. node	10703 Dec 30 20:35	27°♐09'06	
morning set	10703 Feb 04 09:55	11°♒02'34		morning max el	10704 Jan 03 05:06	29°♐45'21	18°22'48
					10704 Jan 03 11:02	0°♑	
superior conj	10703 Feb 14 21:24	29°♒49'38	0°05'51	morning set	10704 Jan 19 01:20	25°♑02'48	
minimum elong	10703 Feb 14 21:56	29°♒51'57	0°06'05		10704 Jan 21 15:32	0°♒	
behind sun begin	10703 Feb 14 14:16	29°♒18'38		superior conj	10704 Jan 28 05:27	12°♒21'17	0°40'11
behind sun end	10703 Feb 15 05:36	0°♒25'12		minimum elong	10704 Jan 28 08:06	12°♒33'27	0°40'13
	10703 Feb 14 23:47	0°♒		desc. node	10704 Feb 02 12:30	21°♒50'40	
desc. node	10703 Feb 15 15:42	1°♒08'56		max. Earth dist.	10704 Feb 04 18:09	25°♒42'55	1.40732 AU
max. Earth dist.	10703 Feb 22 09:02	12°♒28'43	1.42756 AU		10704 Feb 07 06:50	0°♒	
evening rise	10703 Feb 28 13:14	22°♒25'26		evening rise	10704 Feb 09 05:15	3°♒12'45	
	10703 Mar 05 10:12	0°♓			10704 Feb 26 17:04	0°♓	
	10703 Mar 26 12:08	0°♓		evening max el	10704 Mar 14 13:54	21°♓11'46	23°28'02
evening max el	10703 Apr 01 22:45	7°♓25'20	22°07'49	retrograde	10704 Mar 25 05:42	27°♓29'23	
asc. node	10703 Apr 10 21:29	13°♓00'45		asc. node	10704 Mar 27 18:44	26°♓58'35	
retrograde	10703 Apr 11 10:42	13°♓02'13		evening set	10704 Mar 30 08:03	25°♓21'24	
evening set	10703 Apr 16 01:33	11°♓08'19		min. Earth dist.	10704 Apr 04 04:28	19°♓40'05	0.68558 AU
inferior conj	10703 Apr 21 08:51	4°♓47'51	2°47'38	inferior conj	10704 Apr 04 17:50	18°♓54'06	2°17'59
minimum elong	10703 Apr 21 06:56	4°♓54'33	2°46'57	minimum elong	10704 Apr 04 15:39	19°♓01'38	2°17'14
min. Earth dist.	10703 Apr 21 07:40	4°♓52'00	0.68641 AU	morning rise	10704 Apr 09 23:12	12°♓48'44	
	10703 Apr 25 02:03	30°♓♓		direct	10704 Apr 14 05:01	11°♓07'59	
morning rise	10703 Apr 26 12:11	28°♓36'20		morning max el	10704 Apr 22 11:39	15°♓52'14	20°51'06
direct	10703 May 01 07:19	26°♓34'01		desc. node	10704 Apr 30 13:27	25°♓31'44	
	10703 May 08 11:43	0°♓			10704 May 03 19:46	0°♓	
morning max el	10703 May 10 18:29	2°♓07'19	22°12'56	morning set	10704 May 22 12:19	27°♓52'02	
desc. node	10703 May 14 16:38	6°♓26'28			10704 May 23 21:03	0°♓	
	10703 May 31 20:21	0°♓		max. Earth dist.	10704 May 30 12:44	10°♓36'26	1.43110 AU
morning set	10703 Jun 13 00:38	18°♓55'37					
max. Earth dist.	10703 Jun 18 07:48	27°♓39'25	1.41097 AU				

superior conj	10704 Jun 06 10:12	22° Π 00'03	-2°01'00		max. Earth dist.	10705 May 13 00:50	24° \mathcal{B} 21'33	1.44639 AU
minimum elong	10704 Jun 06 16:02	22° Π 24'40	2°01'10			10705 May 16 13:46	0° Π	
	10704 Jun 11 02:34	0° \mathcal{E}						
evening rise	10704 Jun 18 08:48	12° \mathcal{E} 46'10			superior conj	10705 May 17 17:56	1° Π 53'10	-2°12'52
asc. node	10704 Jun 23 17:09	22° \mathcal{E} 12'50			minimum elong	10705 May 17 19:03	1° Π 57'38	2°13'20
	10704 Jun 28 09:01	0° Ω			evening rise	10705 May 31 10:02	24° Π 29'00	
evening max el	10704 Jul 05 01:00	8° Ω 48'33	18°04'29			10705 Jun 03 16:22	0° \mathcal{E}	
retrograde	10704 Jul 11 15:24	12° Ω 11'49			asc. node	10705 Jun 10 14:11	11° \mathcal{E} 24'05	
evening set	10704 Jul 14 04:21	11° Ω 41'35			evening max el	10705 Jun 18 14:53	22° \mathcal{E} 10'38	18°10'52
inferior conj	10704 Jul 20 19:30	6° Ω 41'12	1°52'38		retrograde	10705 Jun 24 23:32	25° \mathcal{E} 31'36	
minimum elong	10704 Jul 20 22:13	6° Ω 34'33	1°51'21		evening set	10705 Jun 27 20:29	24° \mathcal{E} 48'07	
min. Earth dist.	10704 Jul 23 22:59	3° Ω 38'08	0.61120 AU		inferior conj	10705 Jul 03 22:16	19° \mathcal{E} 29'28	2°39'50
morning rise	10704 Jul 27 13:29	0° Ω 42'36			minimum elong	10705 Jul 04 00:45	19° \mathcal{E} 22'38	2°38'45
desc. node	10704 Jul 27 12:51	0° Ω 43'40			min. Earth dist.	10705 Jul 06 13:49	16° \mathcal{E} 35'13	0.63322 AU
	10704 Jul 28 17:17	30° \mathcal{R} \mathcal{E}			morning rise	10705 Jul 10 03:24	13° \mathcal{E} 16'20	
direct	10704 Aug 03 04:41	28° \mathcal{E} 28'51			desc. node	10705 Jul 14 10:01	11° \mathcal{E} 02'13	
	10704 Aug 09 00:06	0° Ω			direct	10705 Jul 16 20:26	10° \mathcal{E} 42'34	
morning max el	10704 Aug 17 10:49	6° Ω 28'16	27°55'52		morning max el	10705 Jul 30 18:59	18° \mathcal{E} 45'02	27°47'17
	10704 Sep 04 05:24	0° \mathcal{M}				10705 Aug 09 06:52	0° Ω	
morning set	10704 Sep 19 13:39	28° \mathcal{M} 12'01				10705 Aug 28 03:33	0° \mathcal{M}	
asc. node	10704 Sep 19 17:27	28° \mathcal{M} 31'39			morning set	10705 Sep 03 09:50	12° \mathcal{M} 01'57	
	10704 Sep 20 10:26	0° \mathcal{L}			asc. node	10705 Sep 06 14:15	18° \mathcal{M} 32'54	
max. Earth dist.	10704 Sep 25 09:03	10° \mathcal{L} 36'47	1.31674 AU		max. Earth dist.	10705 Sep 08 11:29	22° \mathcal{M} 31'02	1.32419 AU
superior conj	10704 Sep 26 21:24	13° \mathcal{L} 56'54	1°05'56		superior conj	10705 Sep 11 04:58	28° \mathcal{M} 22'46	0°44'21
minimum elong	10704 Sep 26 19:10	13° \mathcal{L} 44'32	1°05'39		minimum elong	10705 Sep 11 03:05	28° \mathcal{M} 12'32	0°43'55
evening rise	10704 Oct 03 15:02	28° \mathcal{L} 44'56				10705 Sep 11 22:52	0° \mathcal{L}	
	10704 Oct 04 05:02	0° \mathcal{M}			evening rise	10705 Sep 18 02:30	13° \mathcal{L} 22'14	
	10704 Oct 20 18:22	0° \mathcal{J}				10705 Sep 26 09:29	0° \mathcal{M}	
desc. node	10704 Oct 23 10:27	3° \mathcal{J} 39'29			desc. node	10705 Oct 10 07:43	20° \mathcal{M} 11'00	
evening max el	10704 Oct 30 00:34	11° \mathcal{J} 06'56	25°05'16		evening max el	10705 Oct 11 11:30	21° \mathcal{M} 20'45	23°27'07
retrograde	10704 Nov 12 21:02	18° \mathcal{J} 04'24			retrograde	10705 Oct 24 22:15	28° \mathcal{M} 02'59	
evening set	10704 Nov 18 13:42	16° \mathcal{J} 51'08			evening set	10705 Oct 29 06:40	27° \mathcal{M} 21'51	
min. Earth dist.	10704 Nov 23 12:30	14° \mathcal{J} 09'12	0.56988 AU		min. Earth dist.	10705 Nov 04 21:25	24° \mathcal{M} 14'55	0.55462 AU
inferior conj	10704 Nov 26 06:57	12° \mathcal{J} 19'38	-5°22'41		inferior conj	10705 Nov 06 16:01	23° \mathcal{M} 12'22	-5°46'28
minimum elong	10704 Nov 26 13:19	12° \mathcal{J} 09'05	5°21'10		minimum elong	10705 Nov 06 15:48	23° \mathcal{M} 12'41	5°46'03
morning rise	10704 Dec 04 15:12	8° \mathcal{J} 09'23			morning rise	10705 Nov 15 02:44	19° \mathcal{M} 19'54	
direct	10704 Dec 06 23:57	7° \mathcal{J} 53'16			direct	10705 Nov 17 23:51	18° \mathcal{M} 59'42	
morning max el	10704 Dec 16 05:51	12° \mathcal{J} 19'42	19°12'08		morning max el	10705 Nov 28 17:44	24° \mathcal{M} 04'49	20°24'15
asc. node	10704 Dec 16 17:38	12° \mathcal{J} 48'46			asc. node	10705 Dec 03 14:39	29° \mathcal{M} 41'17	
	10704 Dec 28 05:04	0° \mathcal{Z}				10705 Dec 03 20:10	0° \mathcal{J}	
morning set	10705 Jan 02 02:01	9° \mathcal{Z} 27'30			morning set	10705 Dec 17 08:37	24° \mathcal{J} 06'31	
						10705 Dec 20 05:07	0° \mathcal{Z}	
superior conj	10705 Jan 10 07:11	25° \mathcal{Z} 42'17	1°06'32		superior conj	10705 Dec 24 21:51	9° \mathcal{Z} 38'37	1°24'50
minimum elong	10705 Jan 10 10:15	25° \mathcal{Z} 57'04	1°06'39		minimum elong	10705 Dec 25 00:17	9° \mathcal{Z} 50'56	1°25'10
	10705 Jan 12 13:03	0° \approx				10705 Dec 30 07:50	20° \mathcal{Z} 19'55	1.36391 AU
max. Earth dist.	10705 Jan 17 00:19	8° \approx 16'16	1.38528 AU		max. Earth dist.	10706 Jan 03 03:58	27° \mathcal{Z} 31'18	
desc. node	10705 Jan 19 09:22	12° \approx 30'45			evening rise	10706 Jan 04 12:46	0° \approx	
evening rise	10705 Jan 20 18:55	14° \approx 57'16				10706 Jan 06 06:17	3° \approx 04'35	
	10705 Jan 29 21:30	0° \mathcal{H}			desc. node	10706 Jan 23 06:40	0° \mathcal{H}	
	10705 Feb 20 11:40	0° \mathcal{Y}			evening max el	10706 Feb 07 17:04	18° \mathcal{H} 51'37	25°57'43
evening max el	10705 Feb 25 03:34	5° \mathcal{Y} 01'57	24°47'00		retrograde	10706 Feb 20 07:07	26° \mathcal{H} 02'38	
retrograde	10705 Mar 08 20:52	11° \mathcal{Y} 51'49			evening set	10706 Feb 26 09:31	23° \mathcal{H} 33'27	
evening set	10705 Mar 14 11:16	9° \mathcal{Y} 31'45			asc. node	10706 Mar 01 13:14	20° \mathcal{H} 21'12	
asc. node	10705 Mar 14 15:59	9° \mathcal{Y} 21'33			min. Earth dist.	10706 Mar 02 15:27	19° \mathcal{H} 02'08	0.67145 AU
min. Earth dist.	10705 Mar 18 23:50	4° \mathcal{Y} 25'30	0.68055 AU		inferior conj	10706 Mar 04 04:33	17° \mathcal{H} 06'07	0°50'42
inferior conj	10705 Mar 20 01:03	3° \mathcal{Y} 01'53	1°38'59		minimum elong	10706 Mar 04 03:19	17° \mathcal{H} 09'59	0°50'24
minimum elong	10705 Mar 19 23:04	3° \mathcal{Y} 08'29	1°38'21		morning rise	10706 Mar 09 21:44	11° \mathcal{H} 17'42	
	10705 Mar 22 10:13	30° \mathcal{R} \mathcal{H}			direct	10706 Mar 13 03:40	10° \mathcal{H} 17'32	
morning rise	10705 Mar 25 11:04	27° \mathcal{H} 04'03			morning max el	10706 Mar 19 20:42	13° \mathcal{H} 55'29	18°48'08
direct	10705 Mar 29 04:23	25° \mathcal{H} 44'33				10706 Mar 31 21:55	0° \mathcal{Y}	
morning max el	10705 Apr 05 12:24	29° \mathcal{H} 49'21	19°41'55		desc. node	10706 Apr 04 07:00	5° \mathcal{Y} 10'35	
	10705 Apr 05 16:42	0° \mathcal{Y}			morning set	10706 Apr 10 20:55	15° \mathcal{Y} 24'21	
desc. node	10705 Apr 17 10:15	15° \mathcal{Y} 09'32				10706 Apr 20 05:25	0° \mathcal{B}	
greatest brilliancy	10705 Apr 18 06:55	16° \mathcal{Y} 24'56	-0.6m		max. Earth dist.	10706 Apr 25 18:24	8° \mathcal{B} 39'43	1.45508 AU
	10705 Apr 27 08:17	0° \mathcal{B}						
morning set	10705 May 01 11:21	6° \mathcal{B} 19'23						

superior conj	10706 Apr 27 05:51	10°♄58'38	-2°05'44	morning max el	10707 Mar 03 10:50	28°♄05'01	18°10'53
minimum elong	10706 Apr 26 23:34	10°♄33'57	2°05'45		10707 Mar 05 05:42	0°♄	
	10706 May 09 06:00	0°♄		morning set	10707 Mar 22 09:12	25°♄50'30	
evening rise	10706 May 12 11:43	5°♄12'11		desc. node	10707 Mar 22 03:44	25°♄28'26	
greatest brilliancy	10706 May 18 10:49	14°♄48'30	-0.9m		10707 Mar 24 23:05	0°♄	
asc. node	10706 May 28 11:15	0°♄06'52					
	10706 May 28 09:15	0°♄		superior conj	10707 Apr 06 12:30	19°♄57'10	-1°38'57
evening max el	10706 Jun 02 03:20	5°♄44'41	18°35'20	minimum elong	10707 Apr 06 03:00	19°♄19'53	1°38'10
retrograde	10706 Jun 08 15:43	9°♄17'15		max. Earth dist.	10707 Apr 08 14:19	23°♄12'19	1.45633 AU
evening set	10706 Jun 11 20:38	8°♄19'03			10707 Apr 12 22:45	0°♄	
inferior conj	10706 Jun 17 12:57	2°♄43'44	3°06'42	evening rise	10707 Apr 22 14:39	15°♄02'10	
minimum elong	10706 Jun 17 14:27	2°♄39'11	3°05'57		10707 May 02 06:45	0°♄	
min. Earth dist.	10706 Jun 19 13:47	0°♄15'57	0.65245 AU	greatest brilliancy	10707 May 04 11:39	3°♄21'00	-0.7m
	10706 Jun 19 19:12	30°♄		asc. node	10707 May 15 08:22	18°♄11'47	
morning rise	10706 Jun 23 07:23	26°♄23'58		evening max el	10707 May 16 11:57	19°♄24'44	19°16'55
direct	10706 Jun 29 19:59	23°♄40'55		retrograde	10707 May 23 12:28	23°♄21'30	
desc. node	10706 Jul 01 07:08	23°♄48'16		evening set	10707 May 27 01:45	22°♄07'50	
	10706 Jul 11 14:35	0°♄		inferior conj	10707 Jun 01 12:05	16°♄17'30	3°17'13
morning max el	10706 Jul 13 05:32	1°♄34'53	27°05'09	minimum elong	10707 Jun 01 12:24	16°♄16'28	3°16'40
	10706 Aug 03 10:24	0°♄		min. Earth dist.	10707 Jun 02 21:55	14°♄27'25	0.66777 AU
morning set	10706 Aug 17 20:17	25°♄21'59		morning rise	10707 Jun 06 22:35	9°♄56'24	
	10706 Aug 20 05:05	0°♄		direct	10707 Jun 13 02:16	7°♄14'42	
max. Earth dist.	10706 Aug 22 05:15	4°♄01'49	1.33668 AU	desc. node	10707 Jun 18 04:11	8°♄43'30	
asc. node	10706 Aug 24 11:04	8°♄38'17		morning max el	10707 Jun 25 16:12	14°♄46'05	25°57'14
					10707 Jul 08 03:01	0°♄	
superior conj	10706 Aug 26 07:18	12°♄29'40	0°18'05		10707 Jul 27 05:55	0°♄	
minimum elong	10706 Aug 26 06:23	12°♄24'51	0°17'41	morning set	10707 Jul 31 17:20	8°♄02'16	
evening rise	10706 Sep 02 13:10	27°♄54'28		max. Earth dist.	10707 Aug 04 12:29	15°♄11'09	1.35400 AU
	10706 Sep 03 13:04	0°♄					
	10706 Sep 21 14:04	0°♄		superior conj	10707 Aug 10 01:47	26°♄10'08	-0°12'13
evening max el	10706 Sep 23 01:09	1°♄30'59	21°48'12	minimum elong	10707 Aug 10 02:32	26°♄13'53	0°12'25
desc. node	10706 Sep 27 05:00	4°♄57'18		behind sun begin	10707 Aug 09 22:37	25°♄54'01	
retrograde	10706 Oct 05 12:44	7°♄43'33		behind sun end	10707 Aug 10 06:27	26°♄33'45	
evening set	10706 Oct 08 10:56	7°♄24'17		asc. node	10707 Aug 11 07:52	28°♄43'21	
inferior conj	10706 Oct 17 10:48	3°♄26'53	-5°16'17		10707 Aug 11 22:50	0°♄	
minimum elong	10706 Oct 17 02:50	3°♄38'02	5°14'37	evening rise	10707 Aug 17 20:55	12°♄14'59	
min. Earth dist.	10706 Oct 17 04:25	3°♄35'49	0.54668 AU		10707 Aug 27 02:59	0°♄	
	10706 Oct 24 15:35	30°♄		evening max el	10707 Sep 05 01:54	12°♄11'06	20°22'39
morning rise	10706 Oct 25 19:59	29°♄39'17		desc. node	10707 Sep 14 02:18	17°♄27'48	
direct	10706 Oct 29 10:04	29°♄11'12		retrograde	10707 Sep 16 01:06	17°♄37'49	
	10706 Nov 03 00:06	0°♄		evening set	10707 Sep 18 01:49	17°♄27'26	
morning max el	10706 Nov 10 16:10	4°♄59'44	21°57'25	inferior conj	10707 Sep 27 03:55	13°♄30'11	-3°51'58
asc. node	10706 Nov 20 11:36	17°♄31'08		minimum elong	10707 Sep 26 18:20	13°♄44'12	3°48'53
	10706 Nov 27 10:21	0°♄		min. Earth dist.	10707 Sep 28 12:57	12°♄41'51	0.54794 AU
morning set	10706 Dec 01 18:45	8°♄53'12		morning rise	10707 Oct 05 10:12	9°♄26'10	
				direct	10707 Oct 09 18:58	8°♄45'09	
superior conj	10706 Dec 08 21:44	24°♄00'05	1°35'40	morning max el	10707 Oct 23 05:23	15°♄16'59	23°43'41
minimum elong	10706 Dec 08 23:04	24°♄07'07	1°36'09		10707 Nov 03 18:22	0°♄	
	10706 Dec 11 18:57	0°♄		asc. node	10707 Nov 07 08:30	6°♄03'54	
max. Earth dist.	10706 Dec 12 21:05	2°♄13'15	1.34524 AU	morning set	10707 Nov 16 06:25	23°♄40'59	
evening rise	10706 Dec 17 04:54	10°♄46'08			10707 Nov 19 04:44	0°♄	
desc. node	10706 Dec 24 03:15	23°♄27'56					
	10706 Dec 27 23:46	0°♄		superior conj	10707 Nov 23 03:47	8°♄37'02	1°39'42
	10707 Jan 18 18:12	0°♄		minimum elong	10707 Nov 23 03:55	8°♄37'47	1°40'12
evening max el	10707 Jan 21 06:33	2°♄33'20	26°52'48	max. Earth dist.	10707 Nov 25 18:05	14°♄11'32	1.33050 AU
retrograde	10707 Feb 03 11:45	9°♄54'50		evening rise	10707 Nov 30 18:04	24°♄32'05	
evening set	10707 Feb 10 00:57	7°♄21'02			10707 Dec 03 12:49	0°♄	
min. Earth dist.	10707 Feb 14 01:08	3°♄23'56	0.65851 AU	desc. node	10707 Dec 11 00:16	13°♄34'50	
inferior conj	10707 Feb 16 02:09	1°♄02'03	-0°06'50		10707 Dec 21 12:40	0°♄	
minimum elong	10707 Feb 16 02:20	1°♄01'31	0°06'27	evening max el	10708 Jan 03 19:10	15°♄56'50	27°25'17
transit middle	10707 Feb 16 02:20	1°♄01'31	0°06'27	retrograde	10708 Jan 17 10:12	23°♄19'58	
transit begin	10707 Feb 15 23:37	1°♄09'24		evening set	10708 Jan 24 07:20	20°♄48'12	
transit end	10707 Feb 16 05:03	0°♄53'39		min. Earth dist.	10708 Jan 28 02:53	17°♄23'02	0.64204 AU
asc. node	10707 Feb 16 10:27	0°♄38'00		inferior conj	10708 Jan 30 15:23	14°♄43'58	-1°13'06
	10707 Feb 16 23:45	30°♄		minimum elong	10708 Jan 30 17:40	14°♄37'57	1°11'43
morning rise	10707 Feb 22 04:56	25°♄25'16		asc. node	10708 Feb 03 07:40	11°♄11'15	
direct	10707 Feb 25 00:53	24°♄41'23		morning rise	10708 Feb 06 05:53	9°♄21'22	

direct	10708 Feb 08 17:35	8° \approx 50'05		asc. node	10709 Jan 20 04:50	22° \approx 52'39	
morning max el	10708 Feb 15 04:06	12° \approx 10'33	17°50'39	direct	10709 Jan 22 02:41	22° \approx 36'11	
	10708 Feb 27 12:49	0° \approx		morning max el	10709 Jan 28 21:20	26° \approx 03'11	17°48'05
morning set	10708 Mar 03 01:59	7° \approx 40'01			10709 Feb 01 06:12	0° \approx	
desc. node	10708 Mar 08 00:28	15° \approx 58'12		morning set	10709 Feb 13 17:44	20° \approx 35'04	
					10709 Feb 19 01:46	0° \approx	
superior conj	10708 Mar 16 08:11	29° \approx 37'34	-0°59'29	desc. node	10709 Feb 22 21:13	6° \approx 35'26	
minimum elong	10708 Mar 16 01:44	29° \approx 11'33	0°58'33				
	10708 Mar 16 13:46	0° \approx		superior conj	10709 Feb 25 03:25	10° \approx 25'30	-0°17'03
max. Earth dist.	10708 Mar 21 09:29	7° \approx 41'25	1.45017 AU	minimum elong	10709 Feb 25 01:46	10° \approx 18'35	0°16'33
evening rise	10708 Apr 01 03:30	24° \approx 24'29		max. Earth dist.	10709 Mar 04 01:45	21° \approx 51'45	1.43740 AU
	10708 Apr 04 19:24	0° \approx			10709 Mar 09 04:24	0° \approx	
	10708 Apr 25 19:36	0° \approx		evening rise	10709 Mar 11 17:22	3° \approx 57'50	
evening max el	10708 Apr 28 15:20	3° \approx 07'30	20°14'03		10709 Mar 29 05:33	0° \approx	
asc. node	10708 May 01 05:32	5° \approx 27'12		evening max el	10709 Apr 11 13:09	16° \approx 51'13	21°23'47
retrograde	10708 May 06 11:09	7° \approx 38'44		asc. node	10709 Apr 18 02:45	21° \approx 37'54	
evening set	10708 May 10 09:32	6° \approx 09'24		retrograde	10709 Apr 20 09:32	22° \approx 03'19	
inferior conj	10708 May 15 16:50	0° \approx 05'46	3°14'24	evening set	10709 Apr 24 18:05	20° \approx 18'22	
minimum elong	10708 May 15 16:04	0° \approx 08'22	3°13'53	inferior conj	10709 Apr 30 00:48	14° \approx 03'31	3°00'19
	10708 May 15 18:31	30° \approx 08'00		minimum elong	10709 Apr 29 23:13	14° \approx 09'02	2°59'44
min. Earth dist.	10708 May 16 12:23	28° \approx 59'07	0.67863 AU	min. Earth dist.	10709 Apr 30 07:01	13° \approx 41'53	0.68492 AU
morning rise	10708 May 20 22:19	23° \approx 46'48		morning rise	10709 May 05 04:07	7° \approx 48'48	
direct	10708 May 26 14:23	21° \approx 15'29		direct	10709 May 10 07:08	5° \approx 34'31	
desc. node	10708 Jun 04 01:08	25° \approx 18'43		morning max el	10709 May 20 11:57	11° \approx 37'53	23°03'30
morning max el	10708 Jun 07 01:57	28° \approx 08'49	24°33'20	desc. node	10709 May 21 22:03	13° \approx 06'54	
	10708 Jun 08 20:12	0° \approx			10709 Jun 04 03:10	0° \approx	
	10708 Jun 30 19:55	0° \approx			10709 Jun 23 15:44	0° \approx	
morning set	10708 Jul 12 20:32	19° \approx 51'57		morning set	10709 Jun 24 00:39	0° \approx 36'56	
max. Earth dist.	10708 Jul 16 11:14	26° \approx 18'12	1.37517 AU	max. Earth dist.	10709 Jun 28 07:59	7° \approx 54'01	1.39812 AU
	10708 Jul 18 11:39	0° \approx					
superior conj	10708 Jul 23 09:20	9° \approx 17'12	-0°45'06	superior conj	10709 Jul 06 01:56	21° \approx 41'01	-1°18'14
minimum elong	10708 Jul 23 12:17	9° \approx 31'32	0°45'01	minimum elong	10709 Jul 06 07:13	22° \approx 05'18	1°18'00
asc. node	10708 Jul 28 04:44	18° \approx 04'56			10709 Jul 10 12:55	0° \approx	
evening rise	10708 Jul 31 23:25	26° \approx 01'59		asc. node	10709 Jul 15 01:38	8° \approx 038'44	
	10708 Aug 02 20:12	0° \approx		evening rise	10709 Jul 15 17:34	9° \approx 055'05	
evening max el	10708 Aug 17 16:36	23° \approx 38'02	19°17'09		10709 Jul 27 02:07	0° \approx	
retrograde	10708 Aug 26 23:16	28° \approx 14'43		evening max el	10709 Jul 31 18:49	5° \approx 49'27	18°32'59
evening set	10708 Aug 28 19:26	28° \approx 04'36		retrograde	10709 Aug 08 15:35	9° \approx 45'47	
desc. node	10708 Aug 30 23:33	27° \approx 28'29		evening set	10709 Aug 10 16:34	9° \approx 30'42	
inferior conj	10708 Sep 06 09:35	23° \approx 55'26	-1°59'44	desc. node	10709 Aug 17 20:48	5° \approx 31'04	
minimum elong	10708 Sep 06 04:17	24° \approx 04'11	1°57'48	inferior conj	10709 Aug 18 11:54	5° \approx 02'04	-0°11'37
min. Earth dist.	10708 Sep 09 01:11	22° \approx 10'39	0.55853 AU	minimum elong	10709 Aug 18 11:27	5° \approx 02'57	0°11'43
morning rise	10708 Sep 14 10:22	19° \approx 18'15		transit middle	10709 Aug 18 11:27	5° \approx 02'57	0°11'43
direct	10708 Sep 19 14:54	18° \approx 16'36		transit begin	10709 Aug 18 08:58	5° \approx 07'44	
morning max el	10708 Oct 03 16:55	25° \approx 24'38	25°27'47	transit end	10709 Aug 18 13:56	4° \approx 58'10	
	10708 Oct 08 00:15	0° \approx		min. Earth dist.	10709 Aug 21 18:35	2° \approx 31'11	0.57631 AU
asc. node	10708 Oct 24 05:22	25° \approx 08'59			10709 Aug 25 17:10	30° \approx 00'00	
	10708 Oct 26 16:43	0° \approx		morning rise	10709 Aug 26 02:50	29° \approx 047'49	
morning set	10708 Oct 30 17:55	8° \approx 25'03		direct	10709 Sep 01 01:16	28° \approx 018'54	
					10709 Sep 07 12:43	0° \approx	
superior conj	10708 Nov 06 13:38	23° \approx 22'13	1°37'30	morning max el	10709 Sep 15 09:09	5° \approx 53'02	26°52'13
minimum elong	10708 Nov 06 12:41	23° \approx 17'01	1°37'53		10709 Oct 03 04:36	0° \approx	
max. Earth dist.	10708 Nov 07 22:07	26° \approx 21'03	1.32041 AU	asc. node	10709 Oct 11 02:12	14° \approx 038'08	
	10708 Nov 09 14:13	0° \approx		morning set	10709 Oct 15 03:37	23° \approx 01'08	
evening rise	10708 Nov 13 16:21	8° \approx 41'06			10709 Oct 18 08:57	0° \approx	
	10708 Nov 24 22:13	0° \approx		superior conj	10709 Oct 22 01:15	8° \approx 09'38	1°29'32
desc. node	10708 Nov 26 21:21	3° \approx 18'06		minimum elong	10709 Oct 21 23:29	7° \approx 59'52	1°29'40
evening max el	10708 Dec 16 05:09	28° \approx 50'07	27°28'39	max. Earth dist.	10709 Oct 22 06:38	8° \approx 39'40	1.31515 AU
	10708 Dec 17 11:40	0° \approx		evening rise	10709 Oct 28 21:06	23° \approx 06'20	
retrograde	10708 Dec 30 01:27	6° \approx 08'09			10709 Nov 01 05:02	0° \approx	
evening set	10709 Jan 06 01:47	3° \approx 47'04		desc. node	10709 Nov 13 18:29	22° \approx 28'23	
min. Earth dist.	10709 Jan 09 19:01	0° \approx 48'58	0.62273 AU		10709 Nov 18 22:16	0° \approx	
	10709 Jan 10 16:17	30° \approx 00'00		evening max el	10709 Nov 28 10:01	11° \approx 01'07	26°58'23
inferior conj	10709 Jan 12 17:14	28° \approx 04'18	-2°26'23	retrograde	10709 Dec 12 08:09	18° \approx 10'53	
minimum elong	10709 Jan 12 22:08	27° \approx 52'48	2°23'57	evening set	10709 Dec 19 04:37	16° \approx 09'50	
morning rise	10709 Jan 19 20:58	22° \approx 58'42		min. Earth dist.	10709 Dec 23 00:29	13° \approx 30'03	0.60178 AU

inferior conj	10709 Dec 26 04:21	10° ☿ 54'11	-3°42'18	minimum elong	10710 Dec 08 04:59	22° ☿ 48'26	4°49'20
minimum elong	10709 Dec 26 11:40	10° ☿ 39'07	3°39'19	morning rise	10710 Dec 16 01:12	18° ☿ 39'38	
morning rise	10710 Jan 02 21:22	6° ☿ 08'41		direct	10710 Dec 18 06:16	18° ☿ 23'58	
direct	10710 Jan 05 00:26	5° ☿ 51'15		asc. node	10710 Dec 24 23:04	20° ☿ 58'22	
asc. node	10710 Jan 07 01:58	6° ☿ 08'21		morning max el	10710 Dec 26 17:42	22° ☿ 31'13	18°41'06
morning max el	10710 Jan 12 11:08	9° ☿ 33'51	18°04'19		10711 Jan 01 15:35	0° ☿	
	10710 Jan 25 18:45	0° \approx		morning set	10711 Jan 11 21:57	18° ☿ 28'36	
morning set	10710 Jan 28 02:08	4° \approx 16'45			10711 Jan 17 20:32	0° \approx	
superior conj	10710 Feb 06 23:09	22° \approx 22'41	0°21'19	superior conj	10711 Jan 20 15:19	5° \approx 16'45	0°52'21
minimum elong	10710 Feb 07 00:49	22° \approx 30'09	0°21'25	minimum elong	10711 Jan 20 18:18	5° \approx 30'47	0°52'23
desc. node	10710 Feb 09 18:02	27° \approx 16'46		desc. node	10711 Jan 27 14:52	17° \approx 57'57	
	10710 Feb 11 07:49	0° ☿		max. Earth dist.	10711 Jan 27 22:04	18° \approx 29'32	1.39804 AU
max. Earth dist.	10710 Feb 14 14:06	5° ☿ 31'33	1.41937 AU	evening rise	10711 Jan 31 23:05	25° \approx 25'54	
evening rise	10710 Feb 19 21:51	14° ☿ 14'28			10711 Feb 03 17:07	0° ☿	
	10710 Mar 02 02:18	0° ☿			10711 Feb 23 19:33	0° ☿	
	10710 Mar 24 15:52	0° ☿		evening max el	10711 Mar 07 20:42	14° ☿ 25'06	24°02'07
evening max el	10710 Mar 25 06:24	0° ☿ 37'04	22°41'39	retrograde	10711 Mar 18 23:30	20° ☿ 57'14	
retrograde	10710 Apr 04 06:05	6° ☿ 31'11		asc. node	10711 Mar 22 21:14	19° ☿ 46'09	
asc. node	10710 Apr 04 23:59	6° ☿ 28'30		evening set	10711 Mar 24 07:06	18° ☿ 43'35	
evening set	10710 Apr 09 01:47	4° ☿ 31'12		min. Earth dist.	10711 Mar 28 23:56	13° ☿ 17'30	0.68401 AU
	10710 Apr 13 01:20	30° ☿		inferior conj	10711 Mar 29 18:25	12° ☿ 14'46	2°02'36
inferior conj	10710 Apr 14 09:58	28° ☿ 07'38	2°36'11	minimum elong	10711 Mar 29 16:16	12° ☿ 22'07	2°01'51
minimum elong	10710 Apr 14 07:53	28° ☿ 14'53	2°35'29	morning rise	10711 Apr 04 01:29	6° ☿ 12'41	
min. Earth dist.	10710 Apr 14 03:35	28° ☿ 29'50	0.68669 AU	direct	10711 Apr 08 01:53	4° ☿ 41'11	
morning rise	10710 Apr 19 13:51	21° ☿ 58'40		morning max el	10711 Apr 15 21:57	9° ☿ 06'48	20°19'57
direct	10710 Apr 24 03:24	20° ☿ 05'14		desc. node	10711 Apr 25 15:46	21° ☿ 08'47	
morning max el	10710 May 03 01:35	25° ☿ 16'12	21°36'45		10711 May 01 19:48	0° ☿	
	10710 May 07 07:42	0° ☿		morning set	10711 May 14 06:20	18° ☿ 47'40	
desc. node	10710 May 08 18:56	1° ☿ 48'27			10711 May 21 10:09	0° ☿	
	10710 May 28 13:53	0° ☿		max. Earth dist.	10711 May 23 18:17	3° ☿ 43'55	1.43836 AU
morning set	10710 Jun 04 02:18	10° ☿ 09'52		superior conj	10711 May 29 20:43	13° ☿ 39'24	-2°08'02
max. Earth dist.	10710 Jun 10 09:37	20° ☿ 22'33	1.42010 AU	minimum elong	10711 May 30 01:08	13° ☿ 57'38	2°08'22
	10710 Jun 16 02:48	0° ☿			10711 Jun 08 12:45	0° ☿	
superior conj	10710 Jun 17 23:03	3° ☿ 11'03	-1°47'47	evening rise	10711 Jun 11 12:45	5° ☿ 12'04	
minimum elong	10710 Jun 18 05:32	3° ☿ 39'14	1°47'42	asc. node	10711 Jun 18 19:34	17° ☿ 44'42	
evening rise	10710 Jun 28 23:33	22° ☿ 56'43			10711 Jun 27 02:13	0° ☿	
asc. node	10710 Jul 01 22:34	28° ☿ 20'19		evening max el	10711 Jun 28 17:50	1° ☿ 47'27	18°04'53
	10710 Jul 02 20:39	0° ☿		retrograde	10711 Jul 05 04:40	5° ☿ 08'19	
evening max el	10710 Jul 15 04:32	18° ☿ 35'49	18°09'14	evening set	10711 Jul 07 20:58	4° ☿ 32'42	
retrograde	10710 Jul 22 02:43	22° ☿ 06'50			10711 Jul 13 15:55	30° ☿	
evening set	10710 Jul 24 11:12	21° ☿ 42'57		inferior conj	10711 Jul 14 05:55	29° ☿ 24'03	2°15'26
inferior conj	10710 Jul 31 11:44	16° ☿ 53'27	1°14'40	minimum elong	10711 Jul 14 08:41	29° ☿ 16'55	2°14'11
minimum elong	10710 Jul 31 13:56	16° ☿ 48'29	1°13'31	min. Earth dist.	10711 Jul 17 04:44	26° ☿ 22'20	0.62076 AU
min. Earth dist.	10710 Aug 03 19:09	13° ☿ 55'46	0.59812 AU	morning rise	10711 Jul 20 18:13	23° ☿ 17'53	
desc. node	10710 Aug 04 18:04	13° ☿ 08'08		desc. node	10711 Jul 22 15:16	22° ☿ 08'32	
morning rise	10710 Aug 07 13:36	11° ☿ 08'05		direct	10711 Jul 27 10:49	20° ☿ 54'45	
direct	10710 Aug 14 00:33	9° ☿ 10'02		morning max el	10711 Aug 10 14:37	28° ☿ 56'46	27°56'50
morning max el	10710 Aug 28 08:40	17° ☿ 02'00	27°43'45		10711 Aug 11 15:23	0° ☿	
	10710 Sep 08 02:11	0° ☿			10711 Sep 02 00:05	0° ☿	
	10710 Sep 25 18:43	0° ☿		morning set	10711 Sep 13 10:11	21° ☿ 27'51	
asc. node	10710 Sep 27 23:01	4° ☿ 23'57		asc. node	10711 Sep 14 19:49	24° ☿ 21'09	
morning set	10710 Sep 29 09:41	7° ☿ 23'45			10711 Sep 17 11:59	0° ☿	
max. Earth dist.	10710 Oct 05 15:57	20° ☿ 57'35	1.31477 AU	max. Earth dist.	10711 Sep 18 22:06	3° ☿ 03'57	1.31930 AU
superior conj	10710 Oct 06 12:43	22° ☿ 52'48	1°16'04	superior conj	10711 Sep 20 22:16	7° ☿ 26'42	0°57'22
minimum elong	10710 Oct 06 10:31	22° ☿ 40'37	1°15'56	minimum elong	10711 Sep 20 20:06	7° ☿ 14'51	0°57'01
	10710 Oct 09 17:38	0° ☿		evening rise	10711 Sep 27 17:04	22° ☿ 18'18	
evening rise	10710 Oct 13 06:00	7° ☿ 40'32			10711 Oct 01 09:04	0° ☿	
	10710 Oct 24 17:13	0° ☿		desc. node	10711 Oct 18 12:54	28° ☿ 11'10	
desc. node	10710 Oct 31 15:41	10° ☿ 52'02			10711 Oct 20 02:25	0° ☿	
evening max el	10710 Nov 10 06:57	22° ☿ 19'43	25°54'29	evening max el	10711 Oct 22 19:57	2° ☿ 50'12	24°24'37
retrograde	10710 Nov 24 04:34	29° ☿ 21'40		retrograde	10711 Nov 05 13:25	9° ☿ 43'00	
evening set	10710 Nov 30 11:13	27° ☿ 49'04		evening set	10711 Nov 10 17:41	8° ☿ 43'42	
min. Earth dist.	10710 Dec 04 19:34	25° ☿ 13'29	0.58091 AU	min. Earth dist.	10711 Nov 16 07:01	5° ☿ 53'26	0.56268 AU
inferior conj	10710 Dec 07 21:06	23° ☿ 02'31	-4°51'42	inferior conj	10711 Nov 18 17:21	4° ☿ 22'23	-5°38'22

minimum elong	10711 Nov 18 21:30	4° ♊ 15'54	5°37'30	minimum elong	10712 Oct 28 15:19	15° ♍ 01'52	5°40'17
morning rise	10711 Nov 27 03:27	0° ♊ 21'06		morning rise	10712 Nov 06 05:28	11° ♍ 08'02	
direct	10711 Nov 29 16:40	0° ♊ 03'47		direct	10712 Nov 09 09:10	10° ♍ 45'06	
morning max el	10711 Dec 09 13:19	4° ♊ 45'20	19°40'06	morning max el	10712 Nov 20 19:23	16° ♍ 08'57	21°01'40
asc. node	10711 Dec 11 20:06	7° ♊ 10'41		asc. node	10712 Nov 27 17:05	24° ♍ 29'22	
	10711 Dec 25 13:34	0° ♋			10712 Dec 01 04:37	0° ♊	
morning set	10711 Dec 27 01:24	2° ♋ 59'46		morning set	10712 Dec 10 09:44	17° ♊ 42'32	
					10712 Dec 16 06:48	0° ♋	
superior conj	10712 Jan 03 23:02	18° ♋ 53'58	1°15'15	superior conj	10712 Dec 17 18:01	3° ♋ 02'19	1°30'18
minimum elong	10712 Jan 04 01:54	19° ♋ 08'10	1°15'27	minimum elong	10712 Dec 17 20:01	3° ♋ 12'37	1°30'43
	10712 Jan 09 17:52	0° ♌			10712 Dec 22 13:04	12° ♋ 41'59	1.35547 AU
max. Earth dist.	10712 Jan 10 03:58	0° ♌ 46'53	1.37592 AU	max. Earth dist.	10712 Dec 26 13:32	20° ♋ 24'22	
evening rise	10712 Jan 13 21:16	7° ♌ 31'36		evening rise	10712 Dec 31 08:37	29° ♋ 05'29	
desc. node	10712 Jan 14 11:43	8° ♌ 35'28		desc. node	10712 Dec 31 21:06	0° ♌	
	10712 Jan 27 13:49	0° ♍			10713 Jan 20 13:08	0° ♍	
evening max el	10712 Feb 18 09:56	28° ♍ 14'28	25°18'30	evening max el	10713 Jan 30 23:23	12° ♍ 01'51	26°23'36
	10712 Feb 20 06:55	0° ♎		retrograde	10713 Feb 12 20:57	19° ♍ 19'26	
retrograde	10712 Mar 01 12:48	5° ♎ 15'23		evening set	10713 Feb 19 04:02	16° ♍ 47'38	
evening set	10712 Mar 07 08:25	2° ♎ 50'41		min. Earth dist.	10713 Feb 23 07:23	12° ♍ 30'52	0.66629 AU
asc. node	10712 Mar 08 18:30	1° ♎ 30'21		asc. node	10713 Feb 23 15:45	12° ♍ 05'44	
	10712 Mar 10 03:02	30° ♎		inferior conj	10713 Feb 25 01:33	10° ♍ 22'48	0°27'26
min. Earth dist.	10712 Mar 11 17:54	27° ♎ 59'31	0.67712 AU	minimum elong	10713 Feb 25 00:50	10° ♍ 24'59	0°27'23
inferior conj	10712 Mar 13 00:16	26° ♎ 21'03	1°19'40	morning rise	10713 Mar 02 22:31	4° ♎ 38'55	
minimum elong	10712 Mar 12 22:32	26° ♎ 26'42	1°19'07	direct	10713 Mar 05 23:55	3° ♎ 46'13	
morning rise	10712 Mar 18 13:03	20° ♎ 27'12		morning max el	10713 Mar 12 13:10	7° ♎ 17'05	18°30'15
direct	10712 Mar 22 01:17	19° ♎ 16'27			10713 Mar 28 16:28	0° ♎	
morning max el	10712 Mar 29 02:06	23° ♎ 08'26	19°17'06	desc. node	10713 Mar 29 09:18	1° ♎ 06'18	
	10712 Apr 03 21:03	0° ♏		morning set	10713 Apr 02 02:50	6° ♎ 59'48	
greatest brilliancy	10712 Apr 10 22:36	10° ♎ 05'06	-0.7m		10713 Apr 16 18:10	0° ♏	
desc. node	10712 Apr 11 12:33	10° ♎ 57'11					
morning set	10712 Apr 22 06:58	27° ♎ 22'56		superior conj	10713 Apr 18 02:25	2° ♏ 06'05	-1°56'31
	10712 Apr 23 23:39	0° ♐		minimum elong	10713 Apr 17 17:54	1° ♏ 32'47	1°56'11
max. Earth dist.	10712 May 05 08:47	17° ♏ 44'15	1.45089 AU	max. Earth dist.	10713 Apr 18 03:12	2° ♏ 09'07	1.45648 AU
				evening rise	10713 May 03 19:50	26° ♏ 48'50	
superior conj	10712 May 08 18:53	23° ♏ 08'47	-2°12'22		10713 May 05 20:06	0° ♐	
minimum elong	10712 May 08 16:50	23° ♏ 00'38	2°12'46	greatest brilliancy	10713 May 12 19:46	11° ♐ 01'33	-0.8m
	10712 May 13 01:49	0° ♑		asc. node	10713 May 22 13:42	25° ♐ 13'25	
evening rise	10712 May 23 04:19	16° ♐ 30'06		evening max el	10713 May 25 18:32	28° ♐ 53'06	18°51'00
	10712 May 31 09:03	0° ♒			10713 May 26 23:05	0° ♒	
asc. node	10712 Jun 04 16:36	6° ♒ 45'01		retrograde	10713 Jun 01 11:08	2° ♒ 34'24	
evening max el	10712 Jun 11 07:24	15° ♒ 15'19	18°19'04	evening set	10713 Jun 04 19:31	1° ♒ 29'50	
retrograde	10712 Jun 17 16:44	18° ♒ 39'56			10713 Jun 06 16:33	30° ♒	
evening set	10712 Jun 20 16:55	17° ♒ 50'31		inferior conj	10713 Jun 10 08:55	25° ♒ 48'13	3°12'55
inferior conj	10712 Jun 26 14:14	12° ♒ 24'39	2°53'27	minimum elong	10713 Jun 10 09:55	25° ♒ 45'05	3°12'16
minimum elong	10712 Jun 26 16:21	12° ♒ 18'33	2°52'31	min. Earth dist.	10713 Jun 12 03:26	23° ♒ 35'10	0.65954 AU
min. Earth dist.	10712 Jun 28 23:45	9° ♒ 39'34	0.64180 AU	morning rise	10713 Jun 15 23:38	19° ♒ 27'22	
morning rise	10712 Jul 02 14:29	6° ♒ 07'34		direct	10713 Jun 22 09:01	16° ♒ 43'17	
desc. node	10712 Jul 08 12:26	3° ♒ 30'10		desc. node	10713 Jun 25 09:32	17° ♒ 14'45	
direct	10712 Jul 09 06:11	3° ♒ 28'19		morning max el	10713 Jul 05 10:57	24° ♒ 29'46	26°38'42
morning max el	10712 Jul 23 00:16	11° ♒ 29'42	27°33'00		10713 Jul 10 09:55	0° ♓	
	10712 Aug 06 16:20	0° ♓			10713 Jul 31 02:40	0° ♓	
	10712 Aug 24 11:30	0° ♑		morning set	10713 Aug 10 07:51	18° ♓ 10'42	
morning set	10712 Aug 27 02:36	5° ♑ 06'11		max. Earth dist.	10713 Aug 14 10:02	26° ♓ 06'51	1.34352 AU
asc. node	10712 Aug 31 16:36	14° ♑ 24'34			10713 Aug 16 08:32	0° ♑	
max. Earth dist.	10712 Aug 31 21:06	14° ♑ 48'01	1.32887 AU	asc. node	10713 Aug 18 13:23	4° ♑ 30'20	
				superior conj	10713 Aug 19 03:13	5° ♑ 41'56	0°05'40
superior conj	10712 Sep 04 03:51	21° ♑ 45'04	0°33'44	minimum elong	10713 Aug 19 02:56	5° ♑ 40'24	0°05'20
minimum elong	10712 Sep 04 02:18	21° ♑ 36'44	0°33'18	behind sun begin	10713 Aug 18 21:25	5° ♑ 11'50	
	10712 Sep 07 23:31	0° ♒		behind sun end	10713 Aug 19 08:26	6° ♑ 09'00	
evening rise	10712 Sep 11 04:24	6° ♒ 53'42		evening rise	10713 Aug 26 14:04	21° ♑ 21'36	
	10712 Sep 23 07:03	0° ♓			10713 Aug 30 19:36	0° ♒	
evening max el	10712 Oct 03 06:43	12° ♓ 57'18	22°44'06	evening max el	10713 Sep 15 00:31	23° ♒ 17'41	21°09'35
desc. node	10712 Oct 04 10:09	14° ♓ 01'28		desc. node	10713 Sep 21 07:27	27° ♒ 53'32	
retrograde	10712 Oct 16 10:00	19° ♓ 29'42		retrograde	10713 Sep 26 21:48	29° ♒ 11'31	
evening set	10712 Oct 20 02:50	18° ♓ 59'43		evening set	10713 Sep 29 08:35	28° ♒ 57'31	
min. Earth dist.	10712 Oct 27 14:54	15° ♓ 36'41	0.55015 AU				
inferior conj	10712 Oct 28 19:09	14° ♓ 56'23	-5°40'58				

inferior conj	10713 Oct 08 11:25	25° Ω 02'15	-4°46'01	evening set	10714 Sep 09 10:05	9° Ω 13'12	
minimum elong	10713 Oct 08 01:47	25° Ω 15'49	4°43'30	inferior conj	10714 Sep 18 08:28	5° Ω 12'07	-3°05'42
min. Earth dist.	10713 Oct 08 22:27	24° Ω 46'43	0.54606 AU	minimum elong	10714 Sep 18 00:18	5° Ω 24'36	3°02'49
morning rise	10713 Oct 16 19:27	21° Ω 10'01		min. Earth dist.	10714 Sep 20 08:07	3° Ω 59'25	0.55145 AU
direct	10713 Oct 20 17:31	20° Ω 36'57		morning rise	10714 Sep 26 12:58	0° Ω 55'48	
morning max el	10713 Nov 02 12:59	26° Ω 44'52	22°41'46	direct	10714 Oct 01 06:20	0° Ω 07'00	
	10713 Nov 05 15:59	0° \mathbb{M}		morning max el	10714 Oct 15 00:26	6° Ω 54'29	24°29'15
asc. node	10713 Nov 14 14:00	12° \mathbb{M} 39'06			10714 Oct 31 15:41	0° \mathbb{M}	
	10713 Nov 23 16:09	0° \mathcal{A}		asc. node	10714 Nov 01 10:53	1° \mathbb{M} 27'32	
morning set	10713 Nov 24 20:44	2° \mathcal{A} 30'13		morning set	10714 Nov 09 08:35	17° \mathbb{M} 17'52	
					10714 Nov 15 04:30	0° \mathcal{A}	
superior conj	10713 Dec 01 20:49	17° \mathcal{A} 31'12	1°38'10	superior conj	10714 Nov 16 04:48	2° \mathcal{A} 13'02	1°39'30
minimum elong	10713 Dec 01 21:39	17° \mathcal{A} 35'36	1°38'41	minimum elong	10714 Nov 16 04:27	2° \mathcal{A} 11'09	1°39'57
max. Earth dist.	10713 Dec 05 05:31	24° \mathcal{A} 35'58	1.33843 AU	max. Earth dist.	10714 Nov 18 06:06	6° \mathcal{A} 41'06	1.32570 AU
	10713 Dec 07 20:58	0° \mathcal{B}		evening rise	10714 Nov 23 13:35	17° \mathcal{A} 51'19	
evening rise	10713 Dec 09 20:06	3° \mathcal{B} 53'50			10714 Nov 29 19:37	0° \mathcal{B}	
desc. node	10713 Dec 18 05:35	19° \mathcal{B} 22'37		desc. node	10714 Dec 05 02:38	9° \mathcal{B} 20'58	
	10713 Dec 24 16:24	0° \approx			10714 Dec 19 02:07	0° \approx	
evening max el	10714 Jan 13 12:51	25° \approx 37'58	27°09'58	evening max el	10714 Dec 27 00:49	8° \approx 50'59	27°30'33
	10714 Jan 18 19:31	0° \mathcal{H}		retrograde	10715 Jan 09 18:12	16° \approx 11'33	
retrograde	10714 Jan 26 23:01	3° \mathcal{H} 00'51		evening set	10715 Jan 16 17:32	13° \approx 43'21	
evening set	10714 Feb 02 15:53	0° \mathcal{H} 27'23		min. Earth dist.	10715 Jan 20 11:49	10° \approx 30'31	0.63419 AU
	10714 Feb 03 05:35	30° \mathcal{R} \approx		inferior conj	10715 Jan 23 04:43	7° \approx 47'47	-1°43'31
min. Earth dist.	10714 Feb 06 14:03	26° \approx 43'57	0.65184 AU	minimum elong	10715 Jan 23 08:04	7° \approx 39'21	1°41'39
inferior conj	10714 Feb 08 19:55	24° \approx 13'48	-0°33'56	asc. node	10715 Jan 28 10:11	3° \approx 19'23	
minimum elong	10714 Feb 08 20:55	24° \approx 11'02	0°33'09	morning rise	10715 Jan 30 00:42	2° \approx 31'53	
asc. node	10714 Feb 10 12:58	22° \approx 22'02		direct	10715 Feb 01 09:41	2° \approx 04'39	
morning rise	10714 Feb 15 03:25	18° \approx 42'24		morning max el	10715 Feb 07 22:30	5° \approx 26'26	17°47'20
direct	10714 Feb 17 19:39	18° \approx 04'16		morning set	10715 Feb 24 07:01	0° \mathcal{H} 22'59	
morning max el	10714 Feb 24 04:53	21° \approx 25'25	18°00'09		10715 Feb 24 01:41	0° \mathcal{H}	
	10714 Mar 02 21:57	0° \mathcal{H}		desc. node	10715 Mar 03 02:44	12° \mathcal{H} 03'10	
morning set	10714 Mar 14 03:40	18° \mathcal{H} 03'01					
desc. node	10714 Mar 16 06:00	21° \mathcal{H} 29'43		superior conj	10715 Mar 08 17:30	21° \mathcal{H} 23'53	-0°41'18
	10714 Mar 21 11:18	0° \mathcal{Y}		minimum elong	10715 Mar 08 13:09	21° \mathcal{H} 06'01	0°40'32
superior conj	10714 Mar 28 12:32	11° \mathcal{Y} 16'47	-1°23'11		10715 Mar 14 01:02	0° \mathcal{Y}	
minimum elong	10714 Mar 28 03:47	10° \mathcal{Y} 42'04	1°22'13	max. Earth dist.	10715 Mar 14 17:52	1° \mathcal{Y} 07'09	1.44553 AU
max. Earth dist.	10714 Mar 31 23:08	16° \mathcal{Y} 42'14	1.45461 AU	evening rise	10715 Mar 24 02:27	15° \mathcal{Y} 44'45	
	10714 Apr 09 12:02	0° \mathcal{B}			10715 Apr 02 12:40	0° \mathcal{B}	
evening rise	10714 Apr 13 15:07	6° \mathcal{B} 22'28		evening max el	10715 Apr 22 02:06	26° \mathcal{B} 18'04	20°42'26
greatest brilliancy	10714 Apr 27 08:47	27° \mathcal{B} 15'21	-0.7m	asc. node	10715 Apr 26 08:03	29° \mathcal{B} 48'58	
	10714 Apr 29 05:48	0° \mathbb{I}			10715 Apr 26 15:34	0° \mathbb{I}	
evening max el	10714 May 09 01:08	12° \mathbb{I} 35'03	19°39'32	retrograde	10715 Apr 30 07:40	1° \mathbb{I} 05'57	
asc. node	10714 May 09 10:51	12° \mathbb{I} 59'06			10715 May 03 17:31	30° \mathcal{R} \mathcal{B}	
retrograde	10714 May 16 08:54	16° \mathbb{I} 44'55		evening set	10715 May 04 10:22	29° \mathcal{B} 29'40	
evening set	10714 May 20 02:02	15° \mathbb{I} 24'31		inferior conj	10715 May 09 17:07	23° \mathcal{B} 20'53	3°09'42
inferior conj	10714 May 25 10:45	9° \mathbb{I} 28'29	3°17'28	minimum elong	10715 May 09 15:58	23° \mathcal{B} 24'51	3°09'10
minimum elong	10714 May 25 10:35	9° \mathbb{I} 29'01	3°16'57	min. Earth dist.	10715 May 10 06:48	22° \mathcal{B} 33'43	0.68185 AU
min. Earth dist.	10714 May 26 14:24	7° \mathbb{I} 56'30	0.67299 AU	morning rise	10715 May 14 21:22	17° \mathcal{B} 03'44	
morning rise	10714 May 30 18:47	3° \mathbb{I} 08'15		direct	10715 May 20 07:56	14° \mathcal{B} 39'19	
direct	10714 Jun 05 17:55	0° \mathbb{I} 29'56		desc. node	10715 May 30 03:31	20° \mathcal{B} 05'09	
desc. node	10714 Jun 12 06:33	2° \mathbb{I} 56'06		morning max el	10715 May 31 06:42	21° \mathcal{B} 11'54	23°55'23
morning max el	10714 Jun 17 21:02	7° \mathbb{I} 46'09	25°22'55		10715 Jun 07 20:55	0° \mathbb{I}	
	10714 Jul 05 05:35	0° \mathcal{E}			10715 Jun 28 11:22	0° \mathcal{E}	
morning set	10714 Jul 23 21:57	0° \mathcal{O} 31'24		morning set	10715 Jul 05 15:57	11° \mathcal{E} 55'04	
	10714 Jul 23 14:58	0° \mathcal{O}		max. Earth dist.	10715 Jul 09 10:47	18° \mathcal{E} 30'45	1.38485 AU
max. Earth dist.	10714 Jul 27 13:14	7° \mathcal{O} 12'49	1.36267 AU		10715 Jul 15 17:48	0° \mathcal{O}	
superior conj	10714 Aug 02 17:34	19° \mathcal{O} 10'09	-0°25'55	superior conj	10715 Jul 16 19:17	2° \mathcal{O} 00'08	-0°59'17
minimum elong	10714 Aug 02 19:11	19° \mathcal{O} 18'15	0°26'01	minimum elong	10715 Jul 16 23:16	2° \mathcal{O} 19'01	0°59'08
asc. node	10714 Aug 05 10:13	24° \mathcal{O} 34'54		asc. node	10715 Jul 23 07:05	14° \mathcal{O} 33'51	
	10714 Aug 08 02:04	0° \mathbb{N}		evening rise	10715 Jul 25 19:22	19° \mathcal{O} 29'54	
evening rise	10714 Aug 10 19:58	5° \mathbb{N} 36'22			10715 Jul 31 06:50	0° \mathbb{N}	
	10714 Aug 24 14:40	0° \mathcal{E}		evening max el	10715 Aug 11 03:21	16° \mathbb{N} 04'45	18°55'45
evening max el	10714 Aug 28 07:23	4° \mathcal{E} 18'08	19°52'09	retrograde	10715 Aug 19 18:30	20° \mathbb{N} 23'06	
retrograde	10714 Sep 07 12:43	9° \mathcal{E} 22'51		evening set	10715 Aug 21 16:01	20° \mathbb{N} 11'26	
desc. node	10714 Sep 08 04:44	9° \mathcal{E} 21'37		desc. node	10715 Aug 26 02:02	18° \mathbb{N} 25'17	


































































































































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minimum elong	10715 Aug 29 19:24	15° \mathbb{M} 59'30	1°10'58		10716 Aug 06 23:07	30° \mathbb{R} \mathcal{O}	
min. Earth dist.	10715 Sep 01 22:11	13° \mathbb{M} 48'08	0.56536 AU	inferior conj	10716 Aug 10 10:12	27° \mathcal{O} 20'35	0°28'02
morning rise	10715 Sep 06 19:35	11° \mathbb{M} 00'53		minimum elong	10716 Aug 10 11:10	27° \mathcal{O} 18'35	0°27'20
direct	10715 Sep 12 07:55	9° \mathbb{M} 48'38		desc. node	10716 Aug 11 23:18	26° \mathcal{O} 03'24	
morning max el	10715 Sep 26 13:37	17° \mathbb{M} 08'36	26°07'04	min. Earth dist.	10716 Aug 13 18:42	24° \mathcal{O} 35'22	0.58524 AU
	10715 Oct 07 03:48	0° \mathcal{A}		morning rise	10716 Aug 17 19:45	21° \mathcal{O} 51'36	
asc. node	10715 Oct 19 07:44	20° \mathcal{A} 44'00		direct	10716 Aug 24 00:08	20° \mathcal{O} 10'03	
	10715 Oct 23 21:02	0° \mathbb{M}		morning max el	10716 Sep 07 09:04	27° \mathcal{O} 53'38	27°18'37
morning set	10715 Oct 24 19:34	1° \mathbb{M} 59'38			10716 Sep 09 10:21	0° \mathbb{M}	
					10716 Sep 29 20:03	0° \mathcal{A}	
superior conj	10715 Oct 31 15:39	17° \mathbb{M} 00'07	1°34'49	asc. node	10716 Oct 05 04:34	10° \mathcal{A} 21'04	
minimum elong	10715 Oct 31 14:19	16° \mathbb{M} 52'46	1°35'05	morning set	10716 Oct 08 03:58	16° \mathcal{A} 30'54	
max. Earth dist.	10715 Nov 01 12:36	18° \mathbb{M} 56'11	1.31762 AU		10716 Oct 14 08:17	0° \mathbb{M}	
	10715 Nov 06 14:38	0° \mathcal{A}					
evening rise	10715 Nov 07 14:56	2° \mathcal{A} 08'05		superior conj	10716 Oct 15 03:27	1° \mathbb{M} 46'42	1°24'29
desc. node	10715 Nov 21 23:45	28° \mathcal{A} 51'49		minimum elong	10716 Oct 15 01:27	1° \mathbb{M} 35'36	1°24'30
	10715 Nov 22 16:46	0° \mathcal{B}		max. Earth dist.	10716 Oct 14 21:46	1° \mathbb{M} 15'04	1.31437 AU
evening max el	10715 Dec 09 08:47	21° \mathcal{B} 27'05	27°19'49	evening rise	10716 Oct 21 21:41	16° \mathbb{M} 37'48	
retrograde	10715 Dec 23 05:54	28° \mathcal{B} 41'49			10716 Oct 28 11:50	0° \mathcal{A}	
evening set	10715 Dec 30 05:50	26° \mathcal{B} 27'46		desc. node	10716 Nov 07 20:55	17° \mathcal{A} 44'20	
min. Earth dist.	10716 Jan 02 23:14	23° \mathcal{B} 39'08	0.61400 AU		10716 Nov 17 05:52	0° \mathcal{B}	
inferior conj	10716 Jan 06 00:43	20° \mathcal{B} 56'10	-2°58'39	evening max el	10716 Nov 20 10:18	3° \mathcal{B} 15'49	26°34'56
minimum elong	10716 Jan 06 06:44	20° \mathcal{B} 42'47	2°55'54	retrograde	10716 Dec 04 08:49	10° \mathcal{B} 23'06	
morning rise	10716 Jan 13 10:14	15° \mathcal{B} 59'04		evening set	10716 Dec 11 00:42	8° \mathcal{B} 33'04	
asc. node	10716 Jan 15 07:20	15° \mathcal{B} 39'30		min. Earth dist.	10716 Dec 15 00:10	5° \mathcal{B} 57'05	0.59273 AU
direct	10716 Jan 15 14:25	15° \mathcal{B} 39'08		inferior conj	10716 Dec 18 04:23	3° \mathcal{B} 29'31	-4°13'20
morning max el	10716 Jan 22 14:47	19° \mathcal{B} 11'18	17°52'39	minimum elong	10716 Dec 18 12:18	3° \mathcal{B} 14'08	4°10'28
	10716 Jan 30 12:27	0° \approx			10716 Dec 23 07:09	30° \mathbb{R} \mathcal{A}	
morning set	10716 Feb 07 06:33	13° \approx 39'59		morning rise	10716 Dec 26 02:37	28° \mathcal{A} 53'44	
	10716 Feb 16 09:57	0° \mathcal{H}		direct	10716 Dec 28 05:41	28° \mathcal{A} 37'36	
				asc. node	10717 Jan 01 04:28	29° \mathcal{A} 36'19	
superior conj	10716 Feb 17 23:31	2° \mathcal{H} 42'46	0°00'00		10717 Jan 01 21:52	0° \mathcal{B}	
minimum elong	10716 Feb 17 23:33	2° \mathcal{H} 42'54	0°00'18	morning max el	10717 Jan 05 02:03	2° \mathcal{B} 29'43	18°17'21
behind sun begin	10716 Feb 17 15:11	2° \mathcal{H} 06'48		morning set	10717 Jan 20 20:20	27° \mathcal{B} 36'03	
behind sun end	10716 Feb 18 07:54	3° \mathcal{H} 18'54			10717 Jan 22 02:39	0° \approx	
desc. node	10716 Feb 17 23:32	2° \mathcal{H} 42'50					
max. Earth dist.	10716 Feb 25 08:37	15° \mathcal{H} 06'16	1.43023 AU	superior conj	10717 Jan 30 04:33	15° \approx 06'10	0°35'27
evening rise	10716 Mar 02 21:13	25° \mathcal{H} 33'30		minimum elong	10717 Jan 30 07:01	15° \approx 17'21	0°35'30
	10716 Mar 05 17:41	0° \mathcal{Y}		desc. node	10717 Feb 03 20:19	23° \approx 24'39	
	10716 Mar 26 10:59	0° \mathcal{B}		max. Earth dist.	10717 Feb 06 18:25	28° \approx 26'57	1.41050 AU
evening max el	10716 Apr 03 21:39	10° \mathcal{B} 02'08	21°56'13		10717 Feb 07 16:22	0° \mathcal{H}	
asc. node	10716 Apr 12 05:16	15° \mathcal{B} 27'51		evening rise	10717 Feb 11 10:11	6° \mathcal{H} 13'03	
retrograde	10716 Apr 13 05:35	15° \mathcal{B} 32'52			10717 Feb 26 21:30	0° \mathcal{Y}	
evening set	10716 Apr 17 18:45	13° \mathcal{B} 41'15		evening max el	10717 Mar 17 13:18	23° \mathcal{Y} 48'42	23°16'00
inferior conj	10716 Apr 23 01:50	7° \mathcal{B} 22'04	2°51'17		10717 Mar 27 17:18	0° \mathcal{B}	
minimum elong	10716 Apr 22 24:00	7° \mathcal{B} 28'30	2°50'39	retrograde	10717 Mar 28 01:02	0° \mathcal{B} 00'28	
min. Earth dist.	10716 Apr 23 02:33	7° \mathcal{B} 19'35	0.68614 AU		10717 Mar 28 08:42	30° \mathbb{R} \mathcal{Y}	
morning rise	10716 Apr 28 05:04	1° \mathcal{B} 09'35		asc. node	10717 Mar 30 02:31	29° \mathcal{Y} 40'08	
	10716 Apr 29 19:24	30° \mathbb{R} \mathcal{Y}		evening set	10717 Apr 02 01:36	27° \mathcal{Y} 54'37	
direct	10716 May 03 02:13	29° \mathcal{Y} 04'06		inferior conj	10717 Apr 07 10:55	21° \mathcal{Y} 28'11	2°23'07
	10716 May 06 15:40	0° \mathcal{B}		minimum elong	10717 Apr 07 08:45	21° \mathcal{Y} 35'41	2°22'22
morning max el	10716 May 12 17:59	4° \mathcal{B} 45'25	22°25'51	min. Earth dist.	10717 Apr 06 23:23	22° \mathcal{Y} 08'01	0.68601 AU
desc. node	10716 May 16 00:25	8° \mathcal{B} 18'25		morning rise	10717 Apr 12 15:49	15° \mathcal{Y} 21'43	
	10716 Jun 01 01:54	0° \mathbb{I}		direct	10717 Apr 16 23:38	13° \mathcal{Y} 37'37	
morning set	10716 Jun 15 09:01	22° \mathbb{I} 10'10		morning max el	10717 Apr 25 10:07	18° \mathcal{Y} 28'35	21°02'31
	10716 Jun 20 02:28	0° \mathcal{E}		desc. node	10717 May 02 21:16	27° \mathcal{Y} 18'03	
max. Earth dist.	10716 Jun 20 08:57	0° \mathcal{E} 27'22	1.40767 AU		10717 May 04 21:37	0° \mathcal{B}	
					10717 May 25 04:48	0° \mathbb{I}	
superior conj	10716 Jun 28 04:09	14° \mathcal{E} 02'13	-1°31'30	morning set	10717 May 26 00:01	1° \mathbb{I} 15'06	
minimum elong	10716 Jun 28 10:11	14° \mathcal{E} 29'20	1°31'17	max. Earth dist.	10717 Jun 02 12:50	13° \mathbb{I} 16'36	1.42841 AU
	10716 Jul 06 19:57	0° \mathcal{O}					
evening rise	10716 Jul 08 08:54	2° \mathcal{O} 53'36		superior conj	10717 Jun 09 15:35	25° \mathbb{I} 06'21	-1°57'55
asc. node	10716 Jul 09 04:01	4° \mathcal{O} 23'20		minimum elong	10717 Jun 09 21:43	25° \mathbb{I} 32'27	1°58'00
evening max el	10716 Jul 24 09:14	28° \mathcal{O} 32'17	18°20'28		10717 Jun 12 12:08	0° \mathcal{E}	
	10716 Jul 26 00:48	0° \mathbb{M}		evening rise	10717 Jun 21 08:16	15° \mathcal{E} 36'20	
retrograde	10716 Jul 31 19:13	2° \mathbb{M} 16'16		asc. node	10717 Jun 26 00:58	23° \mathcal{E} 58'12	

	10717 Jun 29 13:17	0°♎		evening max el	10718 Jun 21 10:43	24°♊50'02	18°08'44
evening max el	10717 Jul 07 20:55	11°♎30'36	18°05'10	retrograde	10718 Jun 27 19:35	28°♊10'28	
retrograde	10717 Jul 14 12:57	14°♎55'17		evening set	10718 Jun 30 15:21	27°♊29'01	
evening set	10717 Jul 17 00:47	14°♎26'44		inferior conj	10718 Jul 06 18:52	22°♊12'48	2°34'06
inferior conj	10717 Jul 23 18:15	9°♎29'14	1°43'27	minimum elong	10718 Jul 06 21:26	22°♊05'48	2°32'58
minimum elong	10717 Jul 23 20:54	9°♎22'54	1°42'10	min. Earth dist.	10718 Jul 09 12:22	19°♊16'07	0.63007 AU
min. Earth dist.	10717 Jul 26 23:03	6°♎26'47	0.60779 AU	morning rise	10718 Jul 13 01:47	16°♊01'18	
desc. node	10717 Jul 29 20:32	4°♎04'07		desc. node	10718 Jul 16 17:44	14°♊00'36	
morning rise	10717 Jul 30 14:16	3°♎33'49		direct	10718 Jul 19 18:56	13°♊30'02	
direct	10717 Aug 06 04:41	1°♎23'52		morning max el	10718 Aug 02 18:56	21°♊32'28	27°50'59
morning max el	10717 Aug 20 11:22	9°♎21'36	27°54'02		10718 Aug 10 03:41	0°♎	
	10717 Sep 05 09:36	0°♎			10718 Aug 29 13:03	0°♎	
	10717 Sep 21 22:56	0°♎		morning set	10718 Sep 06 05:17	14°♎40'08	
morning set	10717 Sep 22 07:57	0°♎46'40		asc. node	10718 Sep 08 22:08	20°♎12'40	
asc. node	10717 Sep 22 01:22	0°♎12'34		max. Earth dist.	10718 Sep 11 09:32	25°♎26'27	1.32271 AU
max. Earth dist.	10717 Sep 28 06:03	13°♎28'57	1.31602 AU				
				superior conj	10718 Sep 13 22:26	0°♎55'05	0°47'56
superior conj	10717 Sep 29 14:21	16°♎27'15	1°08'46	minimum elong	10718 Sep 13 20:27	0°♎44'19	0°47'32
minimum elong	10717 Sep 29 12:07	16°♎14'50	1°08'33		10718 Sep 13 12:18	0°♎	
	10717 Oct 05 17:54	0°♎		evening rise	10718 Sep 20 19:07	15°♎52'08	
evening rise	10717 Oct 06 07:45	1°♎14'41			10718 Sep 27 17:43	0°♎	
	10717 Oct 21 18:04	0°♎		desc. node	10718 Oct 12 15:22	22°♎28'47	
desc. node	10717 Oct 25 18:07	5°♎43'48		evening max el	10718 Oct 14 15:04	24°♎31'16	23°42'18
evening max el	10717 Nov 02 03:51	14°♎14'05	25°18'50		10718 Oct 22 08:37	0°♎	
retrograde	10717 Nov 16 00:47	21°♎12'36		retrograde	10718 Oct 28 03:50	1°♎16'35	
evening set	10717 Nov 21 21:28	19°♎54'20		evening set	10718 Nov 01 17:43	0°♎30'55	
min. Earth dist.	10717 Nov 26 15:59	17°♎14'37	0.57264 AU		10718 Nov 03 03:33	30°♎	
inferior conj	10717 Nov 29 12:40	15°♎19'08	-5°15'30	min. Earth dist.	10718 Nov 08 01:18	27°♎29'00	0.55650 AU
minimum elong	10717 Nov 29 19:36	15°♎07'25	5°13'45	inferior conj	10718 Nov 10 00:30	26°♎18'46	-5°46'04
morning rise	10717 Dec 07 20:02	11°♎05'32		minimum elong	10718 Nov 10 01:32	26°♎17'13	5°45'36
direct	10717 Dec 10 03:35	10°♎49'38		morning rise	10718 Nov 18 11:14	22°♎24'26	
morning max el	10717 Dec 19 04:26	15°♎10'53	19°03'17	direct	10718 Nov 21 06:10	22°♎05'04	
asc. node	10717 Dec 19 01:32	15°♎03'55		morning max el	10718 Dec 01 18:20	27°♎03'42	20°12'02
	10717 Dec 29 13:25	0°♎			10718 Dec 04 12:20	0°♎	
morning set	10718 Jan 04 19:51	11°♎58'11		asc. node	10718 Dec 05 22:32	1°♎46'28	
				morning set	10718 Dec 20 01:42	26°♎35'39	
superior conj	10718 Jan 13 03:57	28°♎20'53	1°03'02		10718 Dec 21 17:33	0°♎	
minimum elong	10718 Jan 13 07:01	28°♎35'38	1°03'08				
	10718 Jan 14 00:41	0°♎		superior conj	10718 Dec 27 16:55	12°♎12'46	1°22'33
max. Earth dist.	10718 Jan 20 01:02	11°♎07'12	1.38864 AU	minimum elong	10718 Dec 27 19:29	12°♎25'41	1°22'50
desc. node	10718 Jan 21 17:09	14°♎05'19		max. Earth dist.	10719 Jan 02 08:06	23°♎14'32	1.36700 AU
evening rise	10718 Jan 23 20:42	17°♎49'38			10719 Jan 05 23:21	0°♎	
	10718 Jan 31 05:09	0°♎		evening rise	10719 Jan 06 03:02	0°♎16'41	
	10718 Feb 21 06:58	0°♎		desc. node	10719 Jan 08 14:01	4°♎40'17	
evening max el	10718 Feb 28 03:09	7°♎38'47	24°35'31		10719 Jan 24 10:09	0°♎	
retrograde	10718 Mar 11 16:45	14°♎24'06		evening max el	10719 Feb 10 16:33	21°♎28'39	25°47'55
asc. node	10718 Mar 16 23:46	12°♎17'22		retrograde	10719 Feb 23 03:46	28°♎37'13	
evening set	10718 Mar 17 05:23	12°♎05'39		evening set	10719 Mar 01 04:29	26°♎09'01	
min. Earth dist.	10718 Mar 21 19:03	6°♎54'16	0.68164 AU	asc. node	10719 Mar 03 21:02	23°♎27'43	
inferior conj	10718 Mar 22 18:31	5°♎36'00	1°45'33	min. Earth dist.	10719 Mar 05 11:18	21°♎32'40	0.67309 AU
minimum elong	10718 Mar 22 16:28	5°♎42'52	1°44'51	inferior conj	10719 Mar 06 22:40	19°♎40'58	0°58'40
	10718 Mar 27 15:47	30°♎		minimum elong	10719 Mar 06 21:17	19°♎45'22	0°58'16
morning rise	10718 Mar 28 03:41	29°♎37'01		morning rise	10719 Mar 12 14:39	13°♎51'11	
direct	10718 Mar 31 22:50	28°♎14'23		direct	10719 Mar 15 22:11	12°♎48'22	
	10718 Apr 05 14:18	0°♎		morning max el	10719 Mar 22 16:57	16°♎29'23	18°55'06
morning max el	10718 Apr 08 09:39	2°♎24'00	19°51'13		10719 Apr 02 02:22	0°♎	
desc. node	10718 Apr 19 18:04	16°♎51'40		greatest brilliancy	10719 Apr 05 14:34	5°♎17'03	-0.8m
	10718 Apr 28 14:48	0°♎		desc. node	10719 Apr 06 14:49	6°♎49'46	
morning set	10718 May 04 23:33	9°♎42'53		morning set	10719 Apr 14 06:13	18°♎38'58	
max. Earth dist.	10718 May 16 00:10	26°♎56'20	1.44456 AU		10719 Apr 21 13:17	0°♎	
	10718 May 17 22:14	0°♎		max. Earth dist.	10719 Apr 28 17:14	11°♎11'36	1.45424 AU
superior conj	10718 May 21 02:49	5°♎08'16	-2°12'11	superior conj	10719 Apr 30 17:02	14°♎19'14	-2°08'08
minimum elong	10718 May 21 04:56	5°♎16'50	2°12'38	minimum elong	10719 Apr 30 11:46	13°♎58'31	2°08'18
evening rise	10718 Jun 03 12:41	27°♎27'44			10719 May 10 13:59	0°♎	
	10718 Jun 05 00:28	0°♎		evening rise	10719 May 15 18:05	8°♎20'39	
asc. node	10718 Jun 12 21:58	13°♎12'59			10719 May 29 09:21	0°♎	

asc. node	10719 May 30 19:01	2°☿01'04		max. Earth dist.	10720 Apr 10 12:47	25°♄42'35	1.45659 AU
evening max el	10719 Jun 04 23:32	8°☿23'05	18°30'30		10720 Apr 13 06:41	0°♄	
retrograde	10719 Jun 11 10:51	11°☿53'15		evening rise	10720 Apr 25 00:03	18°♄17'26	
evening set	10719 Jun 14 14:32	10°☿57'21			10720 May 02 12:25	0°♄	
inferior conj	10719 Jun 20 08:01	5°☿24'19	3°03'44	greatest brilliancy	10720 May 06 04:16	5°♄37'36	-0.8m
minimum elong	10719 Jun 20 09:41	5°☿19'19	3°02'56	asc. node	10720 May 16 16:10	20°♄12'49	
min. Earth dist.	10719 Jun 22 11:05	2°☿51'42	0.64981 AU	evening max el	10720 May 18 08:52	22°♄02'47	19°09'40
	10719 Jun 25 03:13	30°♄		retrograde	10720 May 25 07:09	25°♄55'20	
morning rise	10719 Jun 26 03:52	29°♄04'59		evening set	10720 May 28 19:06	24°♄44'07	
direct	10719 Jul 02 17:21	26°♄22'41		inferior conj	10720 Jun 03 06:08	18°♄55'58	3°16'29
desc. node	10719 Jul 03 14:52	26°♄25'26		minimum elong	10720 Jun 03 06:37	18°♄54'22	3°15'55
	10719 Jul 11 09:11	0°☿		min. Earth dist.	10720 Jun 04 18:12	16°♄59'39	0.66577 AU
morning max el	10719 Jul 16 05:25	4°☿19'01	27°13'16	morning rise	10720 Jun 08 17:37	12°♄34'43	
	10719 Aug 04 16:06	0°♄		direct	10720 Jun 14 22:51	9°♄52'04	
morning set	10719 Aug 20 17:21	28°♄05'09		desc. node	10720 Jun 19 11:56	11°♄03'17	
	10719 Aug 21 16:52	0°♄		morning max el	10720 Jun 27 16:13	17°♄28'12	26°08'32
max. Earth dist.	10719 Aug 25 04:48	7°♄01'05	1.33450 AU		10720 Jul 08 03:30	0°☿	
asc. node	10719 Aug 26 18:54	10°♄17'35			10720 Jul 27 15:00	0°♄	
				morning set	10720 Aug 02 16:40	10°♄52'21	
superior conj	10719 Aug 29 01:40	15°♄05'00	0°22'20	max. Earth dist.	10720 Aug 06 13:27	18°♄12'19	1.35117 AU
minimum elong	10719 Aug 29 00:34	14°♄59'10	0°21'55				
evening rise	10719 Sep 05 06:00	0°♄25'17		superior conj	10720 Aug 11 21:31	28°♄50'04	-0°07'25
	10719 Sep 05 01:14	0°♄		minimum elong	10720 Aug 11 21:58	28°♄52'21	0°07'40
	10719 Sep 22 00:40	0°♄		behind sun begin	10720 Aug 11 16:38	28°♄25'10	
evening max el	10719 Sep 26 03:31	4°♄38'41	22°02'19	behind sun end	10720 Aug 12 03:18	29°♄19'35	
desc. node	10719 Sep 29 12:38	7°♄32'34			10720 Aug 12 11:12	0°♄	
retrograde	10719 Oct 08 19:41	10°♄57'14		asc. node	10720 Aug 12 15:42	0°♄23'03	
evening set	10719 Oct 11 22:25	10°♄35'36		evening rise	10720 Aug 19 14:21	14°♄47'59	
inferior conj	10719 Oct 20 20:36	6°♄36'54	-5°24'40		10720 Aug 27 08:32	0°♄	
minimum elong	10719 Oct 20 13:32	6°♄46'48	5°23'19	evening max el	10720 Sep 07 02:19	15°♄12'59	20°34'09
min. Earth dist.	10719 Oct 20 08:17	6°♄54'10	0.54726 AU	desc. node	10720 Sep 15 09:56	20°♄25'10	
morning rise	10719 Oct 29 06:07	2°♄49'52		retrograde	10720 Sep 18 07:33	20°♄46'59	
direct	10719 Nov 01 17:24	2°♄23'19		evening set	10720 Sep 20 10:12	20°♄36'01	
morning max el	10719 Nov 13 18:38	8°♄05'23	21°42'31	inferior conj	10720 Sep 29 12:59	16°♄39'45	-4°07'19
asc. node	10719 Nov 22 19:29	19°♄28'17		minimum elong	10720 Sep 29 03:09	16°♄53'57	4°04'17
	10719 Nov 28 20:11	0°♄		min. Earth dist.	10720 Sep 30 16:36	15°♄59'48	0.54713 AU
morning set	10719 Dec 04 11:25	11°♄21'22		morning rise	10720 Oct 07 19:45	12°♄39'16	
				direct	10720 Oct 12 01:41	12°♄00'30	
superior conj	10719 Dec 11 15:37	26°♄31'04	1°34'28	morning max el	10720 Oct 25 08:45	18°♄26'39	23°27'41
minimum elong	10719 Dec 11 17:08	26°♄39'00	1°34'56		10720 Nov 03 19:39	0°♄	
	10719 Dec 13 07:49	0°♄		asc. node	10720 Nov 08 16:23	7°♄55'17	
max. Earth dist.	10719 Dec 15 20:07	5°♄07'24	1.34774 AU	morning set	10720 Nov 17 23:00	26°♄09'22	
evening rise	10719 Dec 20 01:47	13°♄25'51			10720 Nov 19 18:01	0°♄	
desc. node	10719 Dec 26 10:56	25°♄05'23					
	10719 Dec 29 07:46	0°♄		superior conj	10720 Nov 24 20:56	11°♄06'23	1°39'30
	10720 Jan 19 08:28	0°♄		minimum elong	10720 Nov 24 21:15	11°♄08'06	1°40'00
evening max el	10720 Jan 24 05:58	5°♄11'59	26°45'52	max. Earth dist.	10720 Nov 27 15:50	17°♄03'52	1.33235 AU
retrograde	10720 Feb 06 09:23	12°♄33'00		evening rise	10720 Dec 02 13:22	27°♄08'02	
evening set	10720 Feb 12 21:05	9°♄59'24			10720 Dec 04 00:14	0°♄	
min. Earth dist.	10720 Feb 16 22:00	5°♄57'20	0.66065 AU	desc. node	10720 Dec 12 07:56	15°♄15'21	
inferior conj	10720 Feb 18 21:18	3°♄38'38	0°02'28		10720 Dec 21 14:43	0°♄	
minimum elong	10720 Feb 18 21:14	3°♄38'52	0°02'45	evening max el	10721 Jan 05 18:51	18°♄39'35	27°22'16
transit middle	10720 Feb 18 21:14	3°♄38'52	0°02'45	retrograde	10721 Jan 19 08:55	26°♄03'14	
transit begin	10720 Feb 18 18:20	3°♄47'24		evening set	10721 Jan 26 05:02	23°♄30'48	
transit end	10720 Feb 19 00:07	3°♄30'22		min. Earth dist.	10721 Jan 30 01:11	20°♄00'58	0.64464 AU
asc. node	10720 Feb 18 18:18	3°♄47'31		inferior conj	10721 Feb 01 12:00	17°♄23'47	-1°02'32
	10720 Feb 22 05:54	30°♄		minimum elong	10721 Feb 01 13:56	17°♄18'38	1°01'18
morning rise	10720 Feb 24 22:31	28°♄00'03		asc. node	10721 Feb 04 15:31	14°♄15'04	
direct	10720 Feb 27 19:48	27°♄14'02		morning rise	10721 Feb 08 00:39	11°♄58'48	
	10720 Mar 04 13:43	0°♄		direct	10721 Feb 10 13:24	11°♄25'55	
morning max el	10720 Mar 05 06:24	0°♄39'13	18°15'21	morning max el	10721 Feb 16 23:25	14°♄46'22	17°52'34
desc. node	10720 Mar 23 11:32	27°♄05'28			10721 Feb 27 19:43	0°♄	
morning set	10720 Mar 24 14:05	28°♄52'02		morning set	10721 Mar 06 02:59	10°♄30'43	
	10720 Mar 25 07:02	0°♄		desc. node	10721 Mar 10 08:16	17°♄33'58	
					10721 Mar 17 22:21	0°♄	
superior conj	10720 Apr 08 23:17	23°♄15'54	-1°44'04				
minimum elong	10720 Apr 08 13:49	22°♄38'48	1°43'22	superior conj	10721 Mar 19 16:11	2°♄48'16	-1°05'52

minimum elong	10721 Mar 19 09:01	2°♄19'35	1°04'55			10722 Feb 20 11:25	0°♄	
max. Earth dist.	10721 Mar 24 08:04	10°♄13'00	1.45156 AU	desc. node		10722 Feb 25 05:00	8°♄10'21	
evening rise	10721 Apr 04 14:09	27°♄41'50						
	10721 Apr 06 02:14	0°♄		superior conj		10722 Feb 28 07:39	13°♄25'38	-0°23'21
greatest brilliancy	10721 Apr 19 14:24	20°♄16'35	-0.6m	minimum elong		10722 Feb 28 05:20	13°♄15'57	0°22'47
	10721 Apr 26 14:43	0°♄		max. Earth dist.		10722 Mar 07 01:10	24°♄28'10	1.43972 AU
evening max el	10721 May 01 13:08	5°♄45'39	20°04'39			10722 Mar 10 12:25	0°♄	
asc. node	10721 May 03 13:21	7°♄36'55		evening rise		10722 Mar 15 02:56	7°♄11'39	
retrograde	10721 May 09 05:39	10°♄11'04				10722 Mar 30 09:05	0°♄	
evening set	10721 May 13 02:39	8°♄44'07		evening max el		10722 Apr 14 11:50	19°♄29'41	21°12'44
inferior conj	10721 May 18 10:14	2°♄42'29	3°15'33	asc. node		10722 Apr 20 10:36	23°♄58'47	
minimum elong	10721 May 18 09:38	2°♄44'33	3°15'03	retrograde		10722 Apr 23 04:11	24°♄35'09	
min. Earth dist.	10721 May 19 07:54	1°♄29'04	0.67736 AU	evening set		10722 Apr 27 11:12	22°♄52'25	
	10721 May 20 10:48	30°♄8		inferior conj		10722 May 02 17:53	16°♄39'08	3°03'07
morning rise	10721 May 23 16:18	26°♄23'04		minimum elong		10722 May 02 16:24	16°♄44'18	3°02'32
direct	10721 May 29 10:16	23°♄49'37		min. Earth dist.		10722 May 03 02:00	16°♄10'53	0.68433 AU
desc. node	10721 Jun 06 08:57	27°♄25'20		morning rise		10722 May 07 21:22	10°♄23'49	
	10721 Jun 09 06:09	0°♄		direct		10722 May 13 02:24	8°♄06'43	
morning max el	10721 Jun 10 01:59	0°♄49'19	24°46'20	morning max el		10722 May 23 11:47	14°♄17'34	23°16'51
	10721 Jul 02 02:07	0°♄		desc. node		10722 May 24 05:52	15°♄04'04	
morning set	10721 Jul 15 22:51	22°♄50'27				10722 Jun 05 05:40	0°♄	
max. Earth dist.	10721 Jul 19 12:59	29°♄17'19	1.37187 AU			10722 Jun 25 00:13	0°♄	
	10721 Jul 19 22:18	0°♄		morning set		10722 Jun 27 06:44	3°♄46'05	
				max. Earth dist.		10722 Jul 01 09:51	10°♄48'28	1.39471 AU
superior conj	10721 Jul 26 06:57	12°♄02'59	-0°40'01					
minimum elong	10721 Jul 26 09:33	12°♄15'40	0°40'00	superior conj		10722 Jul 09 02:06	24°♄34'25	-1°13'20
asc. node	10721 Jul 30 12:33	20°♄25'35		minimum elong		10722 Jul 09 07:04	24°♄57'25	1°13'06
evening rise	10721 Aug 03 17:49	28°♄54'13				10722 Jul 11 23:42	0°♄	
	10721 Aug 04 06:58	0°♄		asc. node		10722 Jul 17 09:28	10°♄21'16	
evening max el	10721 Aug 20 15:06	26°♄33'22	19°25'32	evening rise		10722 Jul 18 13:28	12°♄36'18	
	10721 Aug 25 03:54	0°♄				10722 Jul 28 02:55	0°♄	
retrograde	10721 Aug 30 03:25	1°♄16'52		evening max el		10722 Aug 03 15:53	8°♄39'10	18°38'14
evening set	10721 Aug 31 23:34	1°♄07'02		retrograde		10722 Aug 11 16:59	12°♄40'43	
desc. node	10721 Sep 02 07:15	0°♄48'30		evening set		10722 Aug 13 17:01	12°♄26'37	
	10721 Sep 04 11:06	30°♄8		desc. node		10722 Aug 20 04:33	9°♄05'14	
inferior conj	10721 Sep 09 16:08	27°♄00'21	-2°17'06	inferior conj		10722 Aug 21 15:16	8°♄00'53	-0°26'50
minimum elong	10721 Sep 09 10:02	27°♄10'13	2°14'51	minimum elong		10722 Aug 21 14:11	8°♄02'55	0°26'41
min. Earth dist.	10721 Sep 12 04:11	25°♄23'34	0.55645 AU	min. Earth dist.		10722 Aug 24 20:34	5°♄36'03	0.57333 AU
morning rise	10721 Sep 17 18:00	22°♄28'51		morning rise		10722 Aug 29 07:54	2°♄52'04	
direct	10721 Sep 22 19:47	21°♄30'39		direct		10722 Sep 04 03:54	1°♄27'40	
morning max el	10721 Oct 06 19:59	28°♄33'42	25°13'10	morning max el		10722 Sep 18 11:20	8°♄58'05	26°41'30
	10721 Oct 08 06:51	0°♄				10722 Oct 04 09:40	0°♄	
asc. node	10721 Oct 26 13:15	26°♄56'19		asc. node		10722 Oct 13 10:04	16°♄22'36	
	10721 Oct 28 03:22	0°♄		morning set		10722 Oct 17 20:42	25°♄32'22	
morning set	10721 Nov 02 10:37	10°♄54'24				10722 Oct 19 22:21	0°♄	
superior conj	10721 Nov 09 06:21	25°♄50'53	1°38'13	superior conj		10722 Oct 24 17:50	10°♄38'30	1°31'05
minimum elong	10721 Nov 09 05:34	25°♄46'32	1°38'37	minimum elong		10722 Oct 24 16:11	10°♄29'18	1°31'16
max. Earth dist.	10721 Nov 10 19:02	29°♄12'16	1.32159 AU	max. Earth dist.		10722 Oct 25 03:15	11°♄30'52	1.31566 AU
	10721 Nov 11 03:46	0°♄		evening rise		10722 Oct 31 14:27	25°♄37'51	
evening rise	10721 Nov 16 10:29	11°♄14'22				10722 Nov 02 16:46	0°♄	
	10721 Nov 26 06:04	0°♄		desc. node		10722 Nov 16 02:10	24°♄19'06	
desc. node	10721 Nov 29 05:01	5°♄02'55				10722 Nov 19 20:50	0°♄	
	10721 Dec 17 13:28	0°♄		evening max el		10722 Dec 01 11:18	13°♄56'30	27°05'01
evening max el	10721 Dec 19 05:32	1°♄38'46	27°30'18	retrograde		10722 Dec 15 09:05	21°♄07'14	
retrograde	10722 Jan 02 01:17	8°♄57'30		evening set		10722 Dec 22 06:49	19°♄02'34	
evening set	10722 Jan 09 01:28	6°♄34'26		min. Earth dist.		10722 Dec 26 01:50	16°♄20'54	0.60497 AU
min. Earth dist.	10722 Jan 12 18:53	3°♄32'40	0.62573 AU	inferior conj		10722 Dec 29 05:16	13°♄42'48	-3°30'55
inferior conj	10722 Jan 15 15:48	0°♄48'08	-2°14'57	minimum elong		10722 Dec 29 12:17	13°♄28'03	3°27'59
minimum elong	10722 Jan 15 20:17	0°♄37'23	2°12'40	morning rise		10723 Jan 05 20:24	8°♄54'09	
	10722 Jan 16 12:03	30°♄8		direct		10723 Jan 07 23:40	8°♄36'08	
morning rise	10722 Jan 22 17:28	25°♄39'38		asc. node		10723 Jan 09 09:50	8°♄44'26	
asc. node	10722 Jan 22 12:43	25°♄43'52		morning max el		10723 Jan 15 07:20	12°♄15'37	18°00'41
direct	10722 Jan 24 23:57	25°♄16'00				10723 Jan 27 03:54	0°♄	
morning max el	10722 Jan 31 16:51	28°♄41'28	17°47'19	morning set		10723 Jan 30 21:59	6°♄53'04	
	10722 Feb 01 22:34	0°♄						
morning set	10722 Feb 16 15:47	23°♄17'39		superior conj		10723 Feb 09 23:52	25°♄12'47	0°15'55

minimum elong	10723 Feb 10 01:11	25° \approx 18'34	0°16'05	superior conj	10724 Jan 23 13:16	7° \approx 59'19	0°48'09
desc. node	10723 Feb 12 01:47	28° \approx 51'05		minimum elong	10724 Jan 23 16:10	8° \approx 12'49	0°48'12
	10723 Feb 12 17:42	0° \mathbb{H}		desc. node	10724 Jan 29 22:35	19° \approx 32'34	
max. Earth dist.	10723 Feb 17 14:16	8° \mathbb{H} 13'36	1.42232 AU	max. Earth dist.	10724 Jan 30 22:34	21° \approx 17'15	1.40127 AU
evening rise	10723 Feb 23 04:35	17° \mathbb{H} 20'06		evening rise	10724 Feb 04 02:33	28° \approx 23'01	
	10723 Mar 03 08:34	0° \mathbb{Y}			10724 Feb 05 01:53	0° \mathbb{H}	
	10723 Mar 25 05:19	0° \mathbb{B}			10724 Feb 24 21:14	0° \mathbb{Y}	
evening max el	10723 Mar 28 05:35	3° \mathbb{B} 14'58	22°29'44	evening max el	10724 Mar 09 20:06	17° \mathbb{Y} 02'30	23°50'14
retrograde	10723 Apr 07 01:05	9° \mathbb{B} 03'01		retrograde	10724 Mar 20 19:07	23° \mathbb{Y} 29'52	
asc. node	10723 Apr 07 07:50	9° \mathbb{B} 02'38		asc. node	10724 Mar 24 05:04	22° \mathbb{Y} 35'03	
evening set	10723 Apr 11 19:07	7° \mathbb{B} 05'03		evening set	10724 Mar 26 00:52	21° \mathbb{Y} 18'05	
inferior conj	10723 Apr 17 02:58	0° \mathbb{B} 42'32	2°40'30	inferior conj	10724 Mar 31 11:37	14° \mathbb{Y} 49'40	2°08'20
minimum elong	10723 Apr 17 00:56	0° \mathbb{B} 49'36	2°39'47	minimum elong	10724 Mar 31 09:26	14° \mathbb{Y} 57'06	2°07'35
min. Earth dist.	10723 Apr 16 22:22	0° \mathbb{B} 58'31	0.68671 AU	min. Earth dist.	10724 Mar 30 18:53	15° \mathbb{Y} 46'42	0.68463 AU
	10723 Apr 17 15:12	30° \mathbb{R} \mathbb{Y}		morning rise	10724 Apr 05 18:02	8° \mathbb{Y} 46'26	
morning rise	10723 Apr 22 06:36	24° \mathbb{Y} 32'42		direct	10724 Apr 09 20:17	7° \mathbb{Y} 11'46	
direct	10723 Apr 26 22:06	22° \mathbb{Y} 36'09		morning max el	10724 Apr 17 19:58	11° \mathbb{Y} 43'42	20°30'37
morning max el	10723 May 06 00:43	27° \mathbb{Y} 54'41	21°49'13	desc. node	10724 Apr 26 23:33	22° \mathbb{Y} 54'02	
	10723 May 08 00:11	0° \mathbb{B}			10724 May 02 00:04	0° \mathbb{B}	
desc. node	10723 May 11 02:45	3° \mathbb{B} 38'40		morning set	10724 May 16 18:49	22° \mathbb{B} 13'49	
	10723 May 29 20:18	0° \mathbb{II}			10724 May 21 18:01	0° \mathbb{II}	
morning set	10723 Jun 07 12:22	13° \mathbb{II} 29'55		max. Earth dist.	10724 May 25 18:05	6° \mathbb{II} 22'54	1.43595 AU
max. Earth dist.	10723 Jun 13 10:40	23° \mathbb{II} 09'23	1.41699 AU				
	10723 Jun 17 12:09	0° \mathbb{E}		superior conj	10724 Jun 01 03:43	16° \mathbb{II} 50'58	-2°05'50
superior conj	10723 Jun 21 02:24	6° \mathbb{E} 13'05	-1°43'45	minimum elong	10724 Jun 01 08:45	17° \mathbb{II} 11'53	2°06'07
minimum elong	10723 Jun 21 08:52	6° \mathbb{E} 41'24	1°43'37		10724 Jun 08 21:44	0° \mathbb{E}	
evening rise	10723 Jul 01 21:34	25° \mathbb{E} 44'10		evening rise	10724 Jun 13 13:35	8° \mathbb{E} 07'17	
asc. node	10723 Jul 04 06:24	0° \mathbb{O} 05'13		asc. node	10724 Jun 20 03:24	19° \mathbb{E} 32'47	
	10723 Jul 04 05:16	0° \mathbb{O}			10724 Jun 26 19:27	0° \mathbb{O}	
evening max el	10723 Jul 18 00:40	21° \mathbb{O} 20'45	18°11'29	evening max el	10724 Jun 30 13:39	4° \mathbb{O} 29'10	18°04'18
retrograde	10723 Jul 25 01:36	24° \mathbb{O} 54'46		retrograde	10724 Jul 07 01:33	7° \mathbb{O} 50'39	
evening set	10723 Jul 27 08:50	24° \mathbb{O} 32'29		evening set	10724 Jul 09 16:38	7° \mathbb{O} 17'00	
inferior conj	10723 Aug 03 12:00	19° \mathbb{O} 45'58	1°03'16	inferior conj	10724 Jul 16 03:42	2° \mathbb{O} 11'12	2°07'44
minimum elong	10723 Aug 03 13:57	19° \mathbb{O} 41'40	1°02'10	minimum elong	10724 Jul 16 06:28	2° \mathbb{O} 04'11	2°06'27
min. Earth dist.	10723 Aug 06 19:59	16° \mathbb{O} 50'50	0.59472 AU		10724 Jul 18 07:20	30° \mathbb{R} \mathbb{E}	
desc. node	10723 Aug 07 01:49	16° \mathbb{O} 38'44		min. Earth dist.	10724 Jul 19 04:16	29° \mathbb{E} 08'29	0.61746 AU
morning rise	10723 Aug 10 15:54	14° \mathbb{O} 04'28		morning rise	10724 Jul 22 17:57	26° \mathbb{E} 07'23	
direct	10723 Aug 17 01:17	12° \mathbb{O} 10'43		desc. node	10724 Jul 23 23:01	25° \mathbb{E} 21'05	
morning max el	10723 Aug 31 09:51	20° \mathbb{O} 00'44	27°38'30	direct	10724 Jul 29 10:09	23° \mathbb{E} 47'19	
	10723 Sep 08 23:14	0° \mathbb{P}			10724 Aug 10 17:15	0° \mathbb{O}	
	10723 Sep 27 05:30	0° \mathbb{A}		morning max el	10724 Aug 12 14:59	1° \mathbb{O} 48'49	27°57'16
asc. node	10723 Sep 30 06:52	6° \mathbb{A} 06'18			10724 Sep 02 06:55	0° \mathbb{P}	
morning set	10723 Oct 02 03:26	9° \mathbb{A} 57'25		morning set	10724 Sep 15 04:53	24° \mathbb{P} 04'32	
max. Earth dist.	10723 Oct 08 12:40	23° \mathbb{A} 49'31	1.31452 AU	asc. node	10724 Sep 16 03:39	26° \mathbb{P} 01'59	
					10724 Sep 18 00:58	0° \mathbb{A}	
superior conj	10723 Oct 09 05:25	25° \mathbb{A} 22'40	1°18'27	max. Earth dist.	10724 Sep 20 19:25	5° \mathbb{A} 57'37	1.31828 AU
minimum elong	10723 Oct 09 03:16	25° \mathbb{A} 10'40	1°18'22				
	10723 Oct 11 07:17	0° \mathbb{M}		superior conj	10724 Sep 22 15:21	9° \mathbb{A} 58'11	1°00'32
evening rise	10723 Oct 15 22:50	10° \mathbb{M} 10'56		minimum elong	10724 Sep 22 13:09	9° \mathbb{A} 46'05	1°00'13
	10723 Oct 25 23:51	0° \mathbb{X}		evening rise	10724 Sep 29 09:40	24° \mathbb{A} 48'16	
desc. node	10723 Nov 02 23:21	12° \mathbb{X} 50'53			10724 Oct 01 20:32	0° \mathbb{M}	
evening max el	10723 Nov 13 09:21	25° \mathbb{X} 22'28	26°05'50	desc. node	10724 Oct 19 20:35	0° \mathbb{X} 21'16	
	10723 Nov 19 08:31	0° \mathbb{Z}			10724 Oct 19 13:46	0° \mathbb{X}	
retrograde	10723 Nov 27 07:12	2° \mathbb{Z} 25'54		evening max el	10724 Oct 24 23:20	5° \mathbb{X} 59'15	24°39'08
evening set	10723 Dec 03 16:43	0° \mathbb{Z} 48'28		retrograde	10724 Nov 07 18:07	12° \mathbb{X} 54'01	
	10723 Dec 05 04:37	30° \mathbb{R} \mathbb{X}		evening set	10724 Nov 13 02:55	11° \mathbb{X} 49'51	
min. Earth dist.	10723 Dec 07 22:14	28° \mathbb{X} 13'25	0.58392 AU	min. Earth dist.	10724 Nov 18 10:42	9° \mathbb{X} 02'54	0.56507 AU
inferior conj	10723 Dec 11 00:53	25° \mathbb{X} 57'35	-4°42'14	inferior conj	10724 Nov 21 00:13	7° \mathbb{X} 25'04	-5°33'43
minimum elong	10723 Dec 11 08:54	25° \mathbb{X} 42'57	4°39'42	minimum elong	10724 Nov 21 05:16	7° \mathbb{X} 17'01	5°32'38
morning rise	10723 Dec 19 03:39	21° \mathbb{X} 31'29		morning rise	10724 Nov 29 09:50	3° \mathbb{X} 20'49	
direct	10723 Dec 21 08:01	21° \mathbb{X} 15'48		direct	10724 Dec 01 21:15	3° \mathbb{X} 04'03	
asc. node	10723 Dec 27 06:54	23° \mathbb{X} 20'41		morning max el	10724 Dec 11 12:43	7° \mathbb{X} 40'13	19°29'51
morning max el	10723 Dec 29 15:14	25° \mathbb{X} 18'43	18°34'17	asc. node	10724 Dec 13 03:56	9° \mathbb{X} 21'43	
	10724 Jan 02 14:40	0° \mathbb{Z}			10724 Dec 26 00:19	0° \mathbb{Z}	
morning set	10724 Jan 14 16:19	21° \mathbb{Z} 01'01		morning set	10724 Dec 28 18:49	5° \mathbb{Z} 29'54	
	10724 Jan 19 07:57	0° $\mathbb{\approx}$		superior conj	10725 Jan 05 18:56	21° \mathbb{Z} 30'59	1°12'17

minimum elong	10725 Jan 05 21:54	21°  45'28	1°12'27	superior conj	10725 Dec 20 12:32	5°  35'40	1°28'29
	10725 Jan 10 05:02	0° 		minimum elong	10725 Dec 20 14:41	5°  46'44	1°28'51
max. Earth dist.	10725 Jan 12 04:19	3°  39'22	1.37914 AU	max. Earth dist.	10725 Dec 25 12:47	15°  37'16	1.35838 AU
evening rise	10725 Jan 15 21:45	10°  21'16		evening rise	10725 Dec 29 11:38	23°  08'10	
desc. node	10725 Jan 15 19:24	10°  10'57			10726 Jan 02 06:38	0° 	
	10725 Jan 27 19:57	0° 		desc. node	10726 Jan 02 16:19	0°  42'35	
	10725 Feb 19 12:41	0° 			10726 Jan 21 13:03	0° 	
evening max el	10725 Feb 20 09:23	0°  51'54	25°07'44	evening max el	10726 Feb 02 22:54	14°  40'21	26°14'53
retrograde	10725 Mar 04 09:06	7°  49'26		retrograde	10726 Feb 15 18:00	21°  45'49	
evening set	10725 Mar 10 02:52	5°  26'17		evening set	10726 Feb 21 23:26	19°  42'55	
asc. node	10725 Mar 11 02:19	4°  32'30		asc. node	10726 Feb 25 23:34	15°  41'52	
min. Earth dist.	10725 Mar 14 13:23	0°  29'49	0.67837 AU	min. Earth dist.	10726 Feb 26 03:42	15°  40'59	0.66820 AU
	10725 Mar 14 22:33	30°  48'48		inferior conj	10726 Feb 27 20:04	12°  49'02	0°35'58
inferior conj	10725 Mar 15 17:58	28°  56'23	1°26'48	minimum elong	10726 Feb 27 19:09	13°  48'52	0°35'49
minimum elong	10725 Mar 15 16:07	29°  40'25	1°26'12	morning rise	10726 Mar 05 15:39	7°  43'27	
morning rise	10725 Mar 21 05:43	23°  40'04		direct	10726 Mar 08 18:37	6°  41'11	
direct	10725 Mar 24 19:40	21°  47'20		morning max el	10726 Mar 15 09:01	9°  51'16	18°36'06
morning max el	10725 Mar 31 22:55	25°  43'40	19°25'28		10726 Mar 29 22:50	0° 	
	10725 Apr 04 18:03	0° 		desc. node	10726 Mar 31 17:02	2°  44'47	
greatest brilliancy	10725 Apr 13 16:15	12°  23'38	-0.7m	morning set	10726 Apr 05 10:15	10°  09'14	
desc. node	10725 Apr 13 20:18	12°  38'38			10726 Apr 18 02:05	0° 	
	10725 Apr 25 06:43	0° 		max. Earth dist.	10726 Apr 21 01:40	4°  39'54	1.45616 AU
morning set	10725 Apr 25 18:19	0°  44'41					
max. Earth dist.	10725 May 08 07:37	20°  17'40	1.44945 AU	superior conj	10726 Apr 21 13:44	5°  27'05	-2°00'12
				minimum elong	10726 Apr 21 05:53	4°  56'21	1°59'59
superior conj	10725 May 12 05:04	26°  28'16	-2°12'59	evening rise	10726 May 07 03:33	0°  00'42	
minimum elong	10725 May 12 04:11	26°  24'43	2°13'25		10726 May 07 03:22	0° 	
	10725 May 14 09:59	0° 		greatest brilliancy	10726 May 15 06:55	12°  57'18	-0.8m
evening rise	10725 May 26 08:35	19°  34'04		asc. node	10726 May 24 21:32	27°  10'59	
	10725 Jun 01 15:05	0° 			10726 May 27 04:42	0° 	
asc. node	10725 Jun 07 00:26	8°  37'17		evening max el	10726 May 28 15:03	1°  31'56	18°45'12
evening max el	10725 Jun 14 03:23	17°  55'20	18°15'49	retrograde	10726 Jun 04 05:58	5°  09'49	
retrograde	10725 Jun 20 12:18	21°  18'20		evening set	10726 Jun 07 13:09	4°  07'27	
evening set	10725 Jun 23 11:20	20°  31'04			10726 Jun 11 21:22	30°  48'48	
inferior conj	10725 Jun 29 10:10	15°  07'45	2°48'54	inferior conj	10726 Jun 13 03:31	28°  28'02	3°10'57
minimum elong	10725 Jun 29 12:25	15°  01'21	2°47'55	minimum elong	10726 Jun 13 04:41	28°  24'23	3°10'16
min. Earth dist.	10725 Jul 01 21:51	12°  19'03	0.63888 AU	min. Earth dist.	10726 Jun 15 00:15	26°  20'39	0.65716 AU
morning rise	10725 Jul 05 12:04	8°  51'52		morning rise	10726 Jun 18 19:29	22°  27'33	
desc. node	10725 Jul 10 20:11	6°  20'18		direct	10726 Jun 25 06:06	19°  23'35	
direct	10725 Jul 12 04:24	6°  14'14		desc. node	10726 Jun 27 17:17	19°  24'32	
morning max el	10725 Jul 26 00:09	14°  16'22	27°38'38	morning max el	10726 Jul 08 10:45	27°  12'48	26°48'25
	10725 Aug 07 17:55	0° 			10726 Jul 11 01:26	0° 	
	10725 Aug 25 22:01	0° 			10726 Aug 01 10:01	0° 	
morning set	10725 Aug 29 22:42	7°  47'14		morning set	10726 Aug 13 05:50	20°  57'18	
asc. node	10725 Sep 03 00:26	16°  40'52		max. Earth dist.	10726 Aug 17 10:16	29°  07'59	1.34103 AU
max. Earth dist.	10725 Sep 03 19:36	17°  45'05	1.32709 AU		10726 Aug 17 20:38	0° 	
				asc. node	10726 Aug 20 21:15	6°  41'32	
superior conj	10725 Sep 06 21:42	24°  49'33	0°37'39				
minimum elong	10725 Sep 06 20:01	24°  40'28	0°37'12	superior conj	10726 Aug 21 22:11	8°  40'05	0°10'12
	10725 Sep 09 12:36	0° 		minimum elong	10726 Aug 21 21:39	8°  41'20	0°09'50
evening rise	10725 Sep 13 21:05	9°  24'36		behind sun begin	10726 Aug 21 17:05	7°  53'28	
	10725 Sep 24 10:32	0° 		behind sun end	10726 Aug 22 02:14	8°  41'14	
evening max el	10725 Oct 06 10:02	16°  08'30	22°59'10	evening rise	10726 Aug 29 07:11	23°  41'10	
desc. node	10725 Oct 06 17:51	16°  27'15			10726 Sep 01 05:59	0° 	
retrograde	10725 Oct 19 16:20	22°  44'42		evening max el	10726 Sep 18 02:15	26°  42'32	21°22'46
evening set	10725 Oct 23 14:34	22°  11'06			10726 Sep 22 12:27	0° 	
min. Earth dist.	10725 Oct 30 19:02	18°  54'03	0.55153 AU	desc. node	10726 Sep 23 15:10	0°  39'12	
inferior conj	10725 Nov 01 04:30	18°  55'53	-5°44'12	retrograde	10726 Sep 30 04:42	2°  25'05	
minimum elong	10725 Nov 01 01:56	18°  09'35	5°43'41	evening set	10726 Oct 02 19:13	2°  09'28	
morning rise	10725 Nov 09 15:00	14°  16'21			10726 Oct 08 14:58	30°  48'48	
direct	10725 Nov 12 16:17	13°  54'28		inferior conj	10726 Oct 11 21:18	28°  41'49	-4°57'53
morning max el	10725 Nov 23 20:52	19°  11'50	20°48'06	minimum elong	10726 Oct 11 12:06	28°  42'43	4°55'39
asc. node	10725 Nov 30 00:55	26°  31'42		min. Earth dist.	10726 Oct 12 02:16	28°  46'51	0.54608 AU
	10725 Dec 02 08:12	0° 		morning rise	10726 Oct 20 05:45	24°  23'43	
morning set	10725 Dec 13 02:37	20°  41'51		direct	10726 Oct 24 01:06	23°  42'26	
	10725 Dec 17 19:33	0° 		morning max el	10726 Nov 05 16:00	29°  43'35	22°26'03
					10726 Nov 05 18:43	0° 	

asc. node	10726 Nov 16 21:51	14°♍34'21			10727 Nov 01 22:23	0°♍	
	10726 Nov 25 03:54	0°♊		asc. node	10727 Nov 03 18:46	3°♍17'09	
morning set	10726 Nov 27 13:23	4°♊59'16		morning set	10727 Nov 12 01:14	19°♍46'49	
					10727 Nov 16 18:11	0°♊	
superior conj	10726 Dec 04 14:24	20°♊02'01	1°37'24	superior conj	10727 Nov 18 21:46	4°♊41'58	1°39'40
minimum elong	10726 Dec 04 15:25	20°♊07'22	1°37'54	minimum elong	10727 Nov 18 21:35	4°♊41'01	1°40'10
max. Earth dist.	10726 Dec 08 04:12	27°♊31'00	1.34074 AU	max. Earth dist.	10727 Nov 21 03:35	9°♊33'24	1.32728 AU
	10726 Dec 09 09:21	0°♊		evening rise	10727 Nov 26 08:22	20°♊25'52	
evening rise	10726 Dec 12 16:20	6°♊32'39			10727 Dec 01 05:55	0°♊	
desc. node	10726 Dec 20 13:18	21°♊01'59		desc. node	10727 Dec 07 10:21	11°♊03'15	
	10726 Dec 25 22:25	0°♋			10727 Dec 19 23:00	0°♋	
evening max el	10727 Jan 16 12:29	28°♋18'50	27°04'26	evening max el	10727 Dec 30 00:41	11°♋35'27	27°29'20
	10727 Jan 18 08:34	0°♋		retrograde	10728 Jan 12 17:16	18°♋57'01	
retrograde	10727 Jan 29 20:57	5°♋41'09		evening set	10728 Jan 19 15:59	16°♋27'21	
evening set	10727 Feb 05 12:36	3°♋07'29		min. Earth dist.	10728 Jan 23 10:38	13°♋10'24	0.63699 AU
	10727 Feb 08 20:31	30°♋		inferior conj	10728 Jan 26 02:04	10°♋28'40	-1°32'30
min. Earth dist.	10727 Feb 09 11:29	29°♋19'18	0.65428 AU	minimum elong	10728 Jan 26 05:02	10°♋21'05	1°30'49
inferior conj	10727 Feb 11 15:39	26°♋51'55	-0°24'03	asc. node	10728 Jan 30 18:02	6°♋18'09	
minimum elong	10727 Feb 11 16:21	26°♋49'58	0°23'25	morning rise	10728 Feb 01 20:08	5°♋10'26	
asc. node	10727 Feb 12 20:49	25°♋30'37		direct	10728 Feb 04 06:01	4°♋41'51	
morning rise	10727 Feb 17 21:28	21°♋18'33		morning max el	10728 Feb 10 17:51	8°♋02'53	17°48'09
direct	10727 Feb 20 15:00	20°♋38'26			10728 Feb 25 10:21	0°♋	
morning max el	10727 Feb 27 00:16	24°♋00'08	18°03'31	morning set	10728 Feb 27 06:35	3°♋09'24	
	10727 Mar 03 22:57	0°♋		desc. node	10728 Mar 04 10:30	13°♋38'16	
morning set	10727 Mar 17 06:47	20°♋59'45					
desc. node	10727 Mar 18 13:46	23°♋06'14		superior conj	10728 Mar 10 23:53	24°♋29'49	-0°47'48
	10727 Mar 22 19:40	0°♌		minimum elong	10728 Mar 10 18:46	24°♋08'59	0°46'58
superior conj	10727 Mar 31 22:18	14°♌32'29	-1°29'00		10728 Mar 14 09:34	0°♌	
minimum elong	10727 Mar 31 13:09	13°♌56'24	1°28'06	max. Earth dist.	10728 Mar 16 16:52	3°♌40'38	1.44728 AU
max. Earth dist.	10727 Apr 03 21:52	19°♌13'49	1.45536 AU	evening rise	10728 Mar 26 12:51	19°♌00'46	
	10727 Apr 10 19:37	0°♌			10728 Apr 02 18:33	0°♌	
evening rise	10727 Apr 17 01:19	9°♌39'31		evening max el	10728 Apr 24 00:12	28°♌55'54	20°32'15
greatest brilliancy	10727 Apr 30 04:11	29°♌41'46	-0.7m		10728 Apr 25 02:39	0°♍	
	10727 Apr 30 09:06	0°♍		asc. node	10728 Apr 27 15:53	2°♍02'57	
asc. node	10727 May 11 18:41	15°♍03'55		retrograde	10728 May 02 02:16	3°♍37'57	
evening max el	10727 May 11 22:26	15°♍13'26	19°31'20	evening set	10728 May 06 03:27	2°♍04'04	
retrograde	10727 May 19 03:28	19°♍18'27			10728 May 08 06:54	30°♍	
evening set	10727 May 22 19:16	18°♍00'21		inferior conj	10728 May 11 10:20	25°♍56'58	3°11'38
inferior conj	10727 May 28 04:29	12°♍06'15	3°17'37	minimum elong	10728 May 11 09:19	26°♍00'27	3°11'05
minimum elong	10727 May 28 04:29	12°♍06'13	3°17'05	min. Earth dist.	10728 May 12 02:02	25°♍03'01	0.68081 AU
min. Earth dist.	10727 May 29 10:15	10°♍27'55	0.67124 AU	morning rise	10728 May 16 14:57	19°♍39'07	
morning rise	10727 Jun 02 13:20	5°♍45'41		direct	10728 May 22 03:25	17°♍12'13	
direct	10727 Jun 08 14:05	3°♍06'07		desc. node	10728 May 31 11:17	22°♍07'22	
desc. node	10727 Jun 14 14:19	5°♍10'13		morning max el	10728 Jun 02 06:49	23°♍52'23	24°08'45
morning max el	10727 Jun 20 21:07	10°♍27'50	25°35'15		10728 Jun 07 17:41	0°♍	
	10727 Jul 06 09:06	0°♎			10728 Jun 28 18:45	0°♎	
	10727 Jul 25 00:51	0°♎		morning set	10728 Jul 07 19:48	14°♎57'58	
morning set	10727 Jul 26 22:30	3°♎25'16		max. Earth dist.	10728 Jul 11 12:47	21°♎28'33	1.38143 AU
max. Earth dist.	10727 Jul 30 14:59	10°♎15'29	1.35959 AU		10728 Jul 16 04:44	0°♎	
superior conj	10727 Aug 05 14:05	21°♎52'59	-0°20'57	superior conj	10728 Jul 18 17:53	4°♎48'40	-0°54'14
minimum elong	10727 Aug 05 15:23	21°♎59'29	0°21'05	minimum elong	10728 Jul 18 21:30	5°♎05'57	0°54'05
asc. node	10727 Aug 07 18:06	26°♎15'30		asc. node	10728 Jul 24 14:57	16°♎15'15	
	10727 Aug 09 14:04	0°♏		evening rise	10728 Jul 27 14:21	22°♎08'02	
evening rise	10727 Aug 13 13:49	8°♏11'20			10728 Jul 31 15:26	0°♏	
	10727 Aug 25 11:01	0°♏		evening max el	10728 Aug 13 01:07	18°♏57'07	19°02'49
evening max el	10727 Aug 31 06:57	7°♏17'33	20°02'19	retrograde	10728 Aug 21 21:36	23°♏21'46	
retrograde	10727 Sep 10 18:31	12°♏29'58		evening set	10728 Aug 23 18:27	23°♏10'46	
desc. node	10727 Sep 10 12:28	12°♏29'47		desc. node	10728 Aug 27 09:47	21°♏52'51	
evening set	10727 Sep 12 16:46	12°♏20'11		inferior conj	10728 Sep 01 03:41	18°♏56'22	-1°28'48
inferior conj	10727 Sep 21 16:42	8°♏20'32	-3°22'36	minimum elong	10728 Aug 31 23:51	19°♏03'00	1°27'26
minimum elong	10727 Sep 21 07:56	8°♏33'43	3°19'34	min. Earth dist.	10728 Sep 04 00:53	16°♏57'32	0.56283 AU
min. Earth dist.	10727 Sep 23 11:25	7°♏16'23	0.55007 AU	morning rise	10728 Sep 09 02:08	14°♏08'42	
morning rise	10727 Sep 29 21:53	4°♏08'53		direct	10728 Sep 14 11:46	13°♏00'16	
direct	10727 Oct 04 12:15	3°♏22'58		morning max el	10728 Sep 28 16:27	20°♏16'22	25°53'50
morning max el	10727 Oct 18 03:54	10°♏04'57	24°13'29		10728 Oct 07 01:00	0°♏	

asc. node	10728 Oct 20 15:36	22°♄29'38		desc. node	10729 Aug 14 07:03	29°♄37'04	
	10728 Oct 24 09:17	0°♄		min. Earth dist.	10729 Aug 16 20:17	27°♄34'49	0.58203 AU
morning set	10728 Oct 26 12:26	4°♄29'30		morning rise	10729 Aug 20 23:33	24°♄51'31	
				direct	10729 Aug 27 02:02	23°♄14'19	
superior conj	10728 Nov 02 08:18	19°♄28'32	1°35'52		10729 Sep 09 11:34	0°♄	
minimum elong	10728 Nov 02 07:06	19°♄21'56	1°36'13	morning max el	10729 Sep 10 10:41	0°♄54'56	27°10'08
max. Earth dist.	10728 Nov 03 09:14	21°♄46'25	1.31846 AU		10729 Oct 01 04:23	0°♄	
	10728 Nov 07 03:47	0°♄		asc. node	10729 Oct 07 12:24	12°♄03'48	
evening rise	10728 Nov 09 08:41	4°♄40'00		morning set	10729 Oct 10 21:16	19°♄02'20	
	10728 Nov 22 21:58	0°♄			10729 Oct 15 22:06	0°♄	
desc. node	10728 Nov 23 07:28	0°♄38'48					
evening max el	10728 Dec 11 09:23	24°♄17'47	27°23'39	superior conj	10729 Oct 17 20:02	4°♄15'24	1°26'23
	10728 Dec 19 03:58	0°♄		minimum elong	10729 Oct 17 18:07	4°♄04'44	1°26'28
retrograde	10728 Dec 25 06:20	1°♄33'59		max. Earth dist.	10729 Oct 17 18:12	4°♄05'10	1.31452 AU
	10728 Dec 31 01:35	30°♄		evening rise	10729 Oct 24 14:45	19°♄08'07	
evening set	10729 Jan 01 06:34	29°♄17'13			10729 Oct 29 22:08	0°♄	
min. Earth dist.	10729 Jan 04 23:44	26°♄25'32	0.61705 AU	desc. node	10729 Nov 10 04:38	19°♄37'54	
inferior conj	10729 Jan 08 00:13	23°♄41'33	-2°47'07		10729 Nov 17 17:56	0°♄	
minimum elong	10729 Jan 08 05:50	23°♄28'47	2°44'27	evening max el	10729 Nov 23 12:07	6°♄14'20	26°43'52
morning rise	10729 Jan 15 07:43	18°♄41'31		retrograde	10729 Dec 07 10:39	13°♄22'32	
asc. node	10729 Jan 16 15:11	18°♄24'11		evening set	10729 Dec 14 04:17	11°♄28'31	
direct	10729 Jan 17 12:21	18°♄20'46		min. Earth dist.	10729 Dec 18 02:17	8°♄51'26	0.59587 AU
morning max el	10729 Jan 24 10:34	21°♄50'59	17°50'41	inferior conj	10729 Dec 21 06:32	6°♄20'39	-4°02'31
	10729 Jan 30 16:40	0°♄		minimum elong	10729 Dec 21 14:17	6°♄05'15	3°59'34
morning set	10729 Feb 09 03:33	16°♄19'19		morning rise	10729 Dec 29 03:00	1°♄41'21	
	10729 Feb 16 19:55	0°♄		direct	10729 Dec 31 05:54	1°♄24'52	
desc. node	10729 Feb 19 07:15	4°♄17'10		asc. node	10730 Jan 03 12:18	2°♄05'58	
				morning max el	10730 Jan 07 22:46	5°♄13'35	18°12'21
superior conj	10729 Feb 20 02:12	5°♄38'25	-0°06'01	morning set	10730 Jan 23 15:30	0°♄10'16	
minimum elong	10729 Feb 20 01:40	5°♄36'08	0°05'39		10730 Jan 23 13:19	0°♄	
behind sun begin	10729 Feb 19 17:36	5°♄01'36					
behind sun end	10729 Feb 20 09:44	6°♄10'35		superior conj	10730 Feb 02 04:01	17°♄52'28	0°30'32
max. Earth dist.	10729 Feb 27 08:07	17°♄43'54	1.43284 AU	minimum elong	10730 Feb 02 06:14	18°♄02'28	0°30'37
evening rise	10729 Mar 06 05:42	28°♄43'52		desc. node	10730 Feb 06 04:02	24°♄58'37	
	10729 Mar 07 01:14	0°♄			10730 Feb 09 01:59	0°♄	
	10729 Mar 27 11:26	0°♄		max. Earth dist.	10730 Feb 09 18:41	1°♄10'47	1.41367 AU
evening max el	10729 Apr 06 20:30	12°♄39'50	21°44'40	evening rise	10730 Feb 14 15:35	9°♄15'01	
asc. node	10729 Apr 14 13:06	17°♄53'33			10730 Feb 28 02:32	0°♄	
retrograde	10729 Apr 16 00:24	18°♄04'06		evening max el	10730 Mar 20 12:41	26°♄26'06	23°03'56
evening set	10729 Apr 20 11:55	16°♄14'51			10730 Mar 24 14:11	0°♄	
inferior conj	10729 Apr 25 18:50	9°♄57'04	2°54'45	retrograde	10730 Mar 30 20:14	2°♄31'46	
minimum elong	10729 Apr 25 17:04	10°♄03'13	2°54'06	asc. node	10730 Apr 01 10:21	2°♄19'38	
min. Earth dist.	10729 Apr 25 21:28	9°♄47'53	0.68584 AU	evening set	10730 Apr 04 19:04	0°♄27'58	
morning rise	10729 Apr 30 22:02	3°♄43'42			10730 Apr 05 07:36	30°♄	
direct	10729 May 05 21:13	1°♄35'05		inferior conj	10730 Apr 10 03:57	24°♄02'31	2°28'00
morning max el	10729 May 15 17:33	7°♄24'12	22°38'49	minimum elong	10730 Apr 10 01:48	24°♄09'57	2°27'15
desc. node	10729 May 18 08:10	10°♄11'55		min. Earth dist.	10730 Apr 09 18:14	24°♄36'10	0.68638 AU
	10729 Jun 02 06:42	0°♄		morning rise	10730 Apr 15 08:26	17°♄55'06	
morning set	10729 Jun 18 16:44	25°♄23'13		direct	10730 Apr 19 18:16	16°♄07'38	
	10729 Jun 21 11:33	0°♄		morning max el	10730 Apr 28 08:42	21°♄05'25	21°14'13
max. Earth dist.	10729 Jun 23 10:07	3°♄16'28	1.40437 AU	desc. node	10730 May 05 05:00	29°♄05'11	
					10730 May 05 21:49	0°♄	
superior conj	10729 Jul 01 05:29	16°♄58'03	-1°26'53		10730 May 26 12:14	0°♄	
minimum elong	10729 Jul 01 11:18	17°♄24'20	1°26'39	morning set	10730 May 29 11:20	4°♄37'31	
	10729 Jul 08 06:26	0°♄		max. Earth dist.	10730 Jun 05 13:09	15°♄58'26	1.42562 AU
evening rise	10729 Jul 11 05:31	5°♄36'06					
asc. node	10729 Jul 11 11:51	6°♄06'01		superior conj	10730 Jun 12 20:25	28°♄11'35	-1°54'31
	10729 Jul 26 00:02	0°♄		minimum elong	10730 Jun 13 02:46	28°♄38'46	1°54'34
evening max el	10729 Jul 27 05:46	1°♄18'52	18°24'28		10730 Jun 13 21:40	0°♄	
retrograde	10729 Aug 03 19:19	5°♄06'49		evening rise	10730 Jun 24 07:19	18°♄25'43	
evening set	10729 Aug 05 22:07	4°♄49'47		asc. node	10730 Jun 28 08:49	25°♄43'27	
inferior conj	10729 Aug 13 12:06	0°♄15'32	0°14'25		10730 Jun 30 19:18	0°♄	
minimum elong	10729 Aug 13 12:36	0°♄14'30	0°13'53	evening max el	10730 Jul 10 16:51	14°♄13'14	18°06'12
transit middle	10729 Aug 13 12:36	0°♄14'30	0°13'53	retrograde	10730 Jul 17 10:45	17°♄39'44	
transit begin	10729 Aug 13 10:48	0°♄18'08		evening set	10730 Jul 19 21:26	17°♄12'51	
transit end	10729 Aug 13 14:25	0°♄10'51		inferior conj	10730 Jul 26 17:18	12°♄18'07	1°33'41
	10729 Aug 13 19:46	30°♄		minimum elong	10730 Jul 26 19:50	12°♄12'13	1°32'25

min. Earth dist.	10730 Jul 29 23:12	9°Ω16'54	0.60441 AU	morning rise	10731 Jul 16 00:32	18°Ω47'23	
desc. node	10730 Aug 01 04:15	7°Ω27'11		desc. node	10731 Jul 19 01:27	17°Ω02'43	
morning rise	10730 Aug 02 15:23	6°Ω26'06		direct	10731 Jul 22 17:35	16°Ω18'51	
direct	10730 Aug 09 04:46	4°Ω20'11		morning max el	10731 Aug 05 19:01	24°Ω21'09	27°53'48
morning max el	10730 Aug 23 11:57	12°Ω15'56	27°51'17		10731 Aug 10 21:30	0°Ω	
	10730 Sep 06 12:19	0°Π			10731 Aug 30 21:58	0°Π	
	10730 Sep 23 11:04	0°Ω		morning set	10731 Sep 09 00:30	17°Π17'29	
asc. node	10730 Sep 24 09:11	1°Ω53'17		asc. node	10731 Sep 11 05:58	21°Π52'14	
morning set	10730 Sep 25 02:01	3°Ω20'29		max. Earth dist.	10731 Sep 14 07:26	28°Π21'16	1.32142 AU
max. Earth dist.	10730 Oct 01 02:54	16°Ω20'33	1.31548 AU		10731 Sep 15 01:45	0°Ω	
superior conj	10730 Oct 02 07:10	18°Ω56'56	1°11'30	superior conj	10731 Sep 16 15:47	3°Ω26'39	0°51'26
minimum elong	10730 Oct 02 04:55	18°Ω44'32	1°11'18	minimum elong	10731 Sep 16 13:44	3°Ω15'25	0°51'02
	10730 Oct 07 07:05	0°Π		evening rise	10731 Sep 23 11:43	18°Ω21'34	
evening rise	10730 Oct 09 00:25	3°Π44'10			10731 Sep 29 03:11	0°Π	
	10730 Oct 22 20:24	0°♄		desc. node	10731 Oct 14 23:05	24°Π43'45	
desc. node	10730 Oct 28 01:50	7°♄46'20		evening max el	10731 Oct 17 18:31	27°Π40'27	23°57'14
evening max el	10730 Nov 05 06:51	17°♄19'36	25°31'49		10731 Oct 20 09:57	0°♄	
retrograde	10730 Nov 19 04:03	24°♄19'08		retrograde	10731 Oct 31 09:05	4°♄28'37	
evening set	10730 Nov 25 04:31	22°♄55'50		evening set	10731 Nov 05 04:14	3°♄38'16	
min. Earth dist.	10730 Nov 29 19:10	20°♄17'56	0.57549 AU	min. Earth dist.	10731 Nov 11 05:01	0°♄40'51	0.55852 AU
inferior conj	10730 Dec 02 17:47	18°♄16'48	-5°07'40		10731 Nov 12 08:11	30°♄	
minimum elong	10730 Dec 03 01:10	18°♄04'06	5°05'40	inferior conj	10731 Nov 13 08:28	29°Π23'08	-5°44'23
morning rise	10730 Dec 11 00:08	13°♄59'53		minimum elong	10731 Nov 13 10:41	29°Π19'46	5°43'50
direct	10730 Dec 13 06:42	13°♄44'08		morning rise	10731 Nov 21 19:07	25°Π26'40	
asc. node	10730 Dec 21 09:20	17°♄20'07		direct	10731 Nov 24 11:58	25°Π08'05	
morning max el	10730 Dec 22 02:39	18°♄00'16	18°55'00		10731 Dec 04 18:22	0°♄	
	10730 Dec 30 20:17	0°♄		morning max el	10731 Dec 04 18:35	0°♄00'31	20°00'26
morning set	10731 Jan 07 13:45	14°♄28'43		asc. node	10731 Dec 08 06:20	3°♄52'00	
	10731 Jan 15 12:25	0°♄		morning set	10731 Dec 22 18:51	29°♄04'18	
					10731 Dec 23 05:48	0°♄	
superior conj	10731 Jan 16 00:56	0°♄59'45	0°59'22	superior conj	10731 Dec 30 12:11	14°♄46'56	1°20'05
minimum elong	10731 Jan 16 04:01	1°♄14'21	0°59'27	minimum elong	10731 Dec 30 14:53	15°♄00'22	1°20'20
max. Earth dist.	10731 Jan 23 01:41	13°♄56'47	1.39196 AU	max. Earth dist.	10732 Jan 05 08:23	26°♄07'53	1.37007 AU
desc. node	10731 Jan 24 00:51	15°♄39'15			10732 Jan 07 10:18	0°♄	
evening rise	10731 Jan 26 22:50	20°♄42'27		evening rise	10732 Jan 09 02:24	3°♄02'17	
	10731 Feb 01 13:16	0°♄		desc. node	10732 Jan 10 21:45	6°♄15'21	
	10731 Feb 22 04:50	0°♄			10732 Jan 25 14:40	0°♄	
evening max el	10731 Mar 03 02:39	10°♄15'13	24°23'58	evening max el	10732 Feb 13 16:00	24°♄05'14	25°37'54
retrograde	10731 Mar 14 12:30	16°♄55'56			10732 Feb 21 10:17	0°♄	
asc. node	10731 Mar 19 07:36	15°♄10'46		retrograde	10732 Feb 26 00:20	1°♄11'20	
evening set	10731 Mar 19 23:23	14°♄39'08			10732 Mar 01 04:45	30°♄	
min. Earth dist.	10731 Mar 24 14:09	9°♄22'39	0.68257 AU	evening set	10732 Mar 02 23:20	28°♄44'10	
inferior conj	10731 Mar 25 11:52	8°♄09'45	1°51'49	asc. node	10732 Mar 05 04:51	26°♄32'54	
minimum elong	10731 Mar 25 09:46	8°♄16'49	1°51'07	min. Earth dist.	10732 Mar 07 07:02	24°♄02'46	0.67458 AU
morning rise	10731 Mar 30 20:14	2°♄09'41		inferior conj	10732 Mar 08 16:42	22°♄15'28	1°06'22
direct	10731 Apr 03 17:15	0°♄43'56		minimum elong	10732 Mar 08 15:10	22°♄20'21	1°05'56
morning max el	10731 Apr 11 07:05	4°♄58'45	20°00'58	morning rise	10732 Mar 14 07:30	16°♄24'18	
desc. node	10731 Apr 22 01:47	18°♄33'53		direct	10732 Mar 17 16:39	15°♄18'46	
	10731 Apr 29 20:52	0°♄		morning max el	10732 Mar 24 13:22	19°♄03'19	19°02'29
morning set	10731 May 08 11:59	13°♄07'23			10732 Apr 02 05:40	0°♄	
max. Earth dist.	10731 May 18 23:45	29°♄32'36	1.44253 AU	greatest brilliancy	10732 Apr 06 22:04	6°♄55'57	-0.7m
	10731 May 19 06:38	0°♄		desc. node	10732 Apr 07 22:33	8°♄28'42	
superior conj	10731 May 24 11:17	8°♄22'32	-2°11'05	morning set	10732 Apr 16 16:08	21°♄55'15	
minimum elong	10731 May 24 14:18	8°♄34'52	2°11'31		10732 Apr 21 21:04	0°♄	
	10731 Jun 06 08:55	0°♄		max. Earth dist.	10732 Apr 30 16:06	13°♄43'34	1.45320 AU
evening rise	10731 Jun 06 14:54	0°♄25'39		superior conj	10732 May 03 04:03	17°♄39'22	-2°10'05
asc. node	10731 Jun 15 05:49	15°♄01'48		minimum elong	10732 May 02 23:53	17°♄22'58	2°10'20
evening max el	10731 Jun 24 06:33	27°♄29'59	18°06'58		10732 May 10 22:12	0°♄	
	10731 Jun 27 12:42	0°Ω		evening rise	10732 May 17 23:56	11°♄27'38	
retrograde	10731 Jun 30 15:52	0°Ω50'16			10732 May 29 11:58	0°♄	
evening set	10731 Jul 03 10:26	0°Ω10'53		asc. node	10732 Jun 01 02:54	3°♄54'40	
	10731 Jul 03 19:14	30°♄		evening max el	10732 Jun 06 19:42	11°♄01'33	18°26'07
inferior conj	10731 Jul 09 15:45	24°♄57'11	2°27'50	retrograde	10732 Jun 13 06:11	14°♄29'36	
minimum elong	10731 Jul 09 18:25	24°♄50'05	2°26'39	evening set	10732 Jun 16 08:37	13°♄36'00	
min. Earth dist.	10731 Jul 12 11:10	21°♄58'24	0.62687 AU				

inferior conj	10732 Jun 22 03:22	8°☿05'23	3°00'21	greatest brilliancy	10733 May 08 19:53	7°♄49'57	-0.8m
minimum elong	10732 Jun 22 05:12	7°☿59'57	2°59'31	asc. node	10733 May 19 00:03	22°♄12'33	
min. Earth dist.	10732 Jun 24 08:41	5°☿28'09	0.64709 AU	evening max el	10733 May 21 05:42	24°♄40'31	19°02'49
morning rise	10732 Jun 28 00:42	1°☿46'37		retrograde	10733 May 28 01:55	28°♄28'58	
	10732 Jun 30 17:52	30°♄12'00		evening set	10733 May 31 12:34	27°♄20'09	
direct	10732 Jul 04 15:01	29°♄05'12		inferior conj	10733 Jun 06 00:22	21°♄34'16	3°15'27
desc. node	10732 Jul 04 22:35	29°♄05'33		minimum elong	10733 Jun 06 01:02	21°♄32'07	3°14'52
	10732 Jul 08 18:57	0°☿		min. Earth dist.	10733 Jun 07 14:42	19°♄31'51	0.66368 AU
morning max el	10732 Jul 18 05:24	7°☿03'42	27°20'44	morning rise	10733 Jun 11 12:55	15°♄13'00	
	10732 Aug 04 21:01	0°♄		direct	10733 Jun 17 19:40	12°♄29'36	
	10732 Aug 22 04:27	0°♄		desc. node	10733 Jun 21 19:39	13°♄24'48	
morning set	10732 Aug 22 14:10	0°♄47'20		morning max el	10733 Jun 30 16:12	20°♄09'53	26°19'27
max. Earth dist.	10732 Aug 27 04:06	9°♄59'16	1.33245 AU		10733 Jul 09 02:28	0°☿	
asc. node	10732 Aug 28 02:47	11°♄56'46			10733 Jul 28 23:50	0°♄	
				morning set	10733 Aug 05 15:41	13°♄41'04	
superior conj	10732 Aug 30 19:55	17°♄39'35	0°26'31	max. Earth dist.	10733 Aug 09 14:11	21°♄12'45	1.34838 AU
minimum elong	10732 Aug 30 18:38	17°♄32'47	0°26'05		10733 Aug 13 23:41	0°♄	
	10732 Sep 05 13:55	0°♄					
evening rise	10732 Sep 06 22:50	2°♄55'32		superior conj	10733 Aug 14 17:06	1°♄29'09	-0°02'41
	10732 Sep 21 18:44	0°♄		minimum elong	10733 Aug 14 17:16	1°♄30'00	0°02'57
evening max el	10732 Sep 28 06:09	7°♄46'40	22°16'41	behind sun begin	10733 Aug 14 11:25	0°♄59'58	
desc. node	10732 Sep 30 20:22	10°♄04'34		behind sun end	10733 Aug 14 23:07	2°♄00'06	
retrograde	10732 Oct 11 02:36	14°♄10'35		asc. node	10733 Aug 14 23:38	2°♄02'44	
evening set	10732 Oct 14 10:03	13°♄46'19		evening rise	10733 Aug 22 07:44	17°♄20'24	
min. Earth dist.	10732 Oct 22 12:17	10°♄11'35	0.54807 AU		10733 Aug 28 16:03	0°♄	
inferior conj	10732 Oct 23 06:20	9°♄46'09	-5°31'43	evening max el	10733 Sep 10 03:10	18°♄16'08	20°46'12
minimum elong	10732 Oct 23 00:19	9°♄54'37	5°30'39	desc. node	10733 Sep 17 17:39	23°♄19'15	
morning rise	10732 Oct 31 16:10	5°♄59'06		retrograde	10733 Sep 21 14:14	23°♄57'17	
direct	10732 Nov 04 00:40	5°♄33'56		evening set	10733 Sep 23 19:20	23°♄45'28	
morning max el	10732 Nov 15 20:54	11°♄09'41	21°27'57	inferior conj	10733 Oct 02 22:27	19°♄49'56	-4°22'00
asc. node	10732 Nov 24 03:18	21°♄25'43		minimum elong	10733 Oct 02 12:32	20°♄04'07	4°19'04
	10732 Nov 29 04:59	0°♄		min. Earth dist.	10733 Oct 03 20:27	19°♄18'28	0.54653 AU
morning set	10732 Dec 06 04:09	13°♄49'04		morning rise	10733 Oct 11 05:39	15°♄52'40	
				direct	10733 Oct 15 08:48	15°♄16'01	
superior conj	10732 Dec 13 09:41	29°♄01'58	1°33'07	morning max el	10733 Oct 28 12:08	21°♄36'06	23°11'32
minimum elong	10732 Dec 13 11:22	29°♄10'47	1°33'34		10733 Nov 04 17:35	0°♄	
	10732 Dec 13 20:51	0°♄		asc. node	10733 Nov 11 00:14	9°♄47'06	
max. Earth dist.	10732 Dec 17 19:16	8°♄00'53	1.35033 AU	morning set	10733 Nov 20 15:35	28°♄37'21	
evening rise	10732 Dec 21 22:58	16°♄05'55			10733 Nov 21 07:07	0°♄	
desc. node	10732 Dec 27 18:42	26°♄42'22					
	10732 Dec 29 16:28	0°♄		superior conj	10733 Nov 27 14:13	13°♄35'36	1°39'08
	10733 Jan 19 02:39	0°♄		minimum elong	10733 Nov 27 14:43	13°♄38'16	1°39'40
evening max el	10733 Jan 26 05:23	7°♄50'01	26°38'31	max. Earth dist.	10733 Nov 30 13:49	19°♄56'20	1.33437 AU
retrograde	10733 Feb 08 06:57	15°♄10'20		evening rise	10733 Dec 05 08:56	29°♄44'16	
evening set	10733 Feb 14 17:04	12°♄37'12			10733 Dec 05 12:07	0°♄	
min. Earth dist.	10733 Feb 18 18:47	8°♄30'02	0.66269 AU	desc. node	10733 Dec 14 15:43	16°♄55'15	
asc. node	10733 Feb 20 02:06	6°♄57'16			10733 Dec 22 18:20	0°♄	
inferior conj	10733 Feb 20 16:20	6°♄14'47	0°11'37	evening max el	10734 Jan 08 18:33	21°♄21'08	27°18'30
minimum elong	10733 Feb 20 16:01	6°♄15'44	0°11'46	retrograde	10734 Jan 22 07:27	28°♄44'45	
transit middle	10733 Feb 20 16:01	6°♄15'44	0°11'46	evening set	10734 Jan 29 02:27	26°♄11'52	
transit begin	10733 Feb 20 14:01	6°♄21'39		min. Earth dist.	10734 Feb 01 23:16	22°♄37'17	0.64723 AU
transit end	10733 Feb 20 18:00	6°♄09'50		inferior conj	10734 Feb 04 08:23	20°♄02'19	-0°52'05
morning rise	10733 Feb 26 16:01	0°♄34'21		minimum elong	10734 Feb 04 09:57	19°♄58'02	0°51'02
	10733 Feb 28 00:49	30°♄		asc. node	10734 Feb 06 23:18	17°♄19'44	
direct	10733 Mar 01 14:41	29°♄46'07		morning rise	10734 Feb 10 19:11	14°♄34'58	
	10733 Mar 03 05:01	0°♄		direct	10734 Feb 13 09:06	14°♄00'20	
morning max el	10733 Mar 08 02:05	3°♄13'05	18°20'12	morning max el	10734 Feb 19 18:42	17°♄20'54	17°54'49
desc. node	10733 Mar 25 19:17	28°♄42'06			10734 Mar 01 01:46	0°♄	
	10733 Mar 26 14:48	0°♄		morning set	10734 Mar 09 04:29	13°♄21'58	
morning set	10733 Mar 27 19:41	1°♄55'16		desc. node	10734 Mar 12 16:03	19°♄09'01	
					10734 Mar 19 07:09	0°♄	
superior conj	10733 Apr 12 10:22	26°♄35'11	-1°48'50				
minimum elong	10733 Apr 12 01:05	25°♄58'52	1°48'16	superior conj	10734 Mar 23 00:38	5°♄59'23	-1°12'10
max. Earth dist.	10733 Apr 13 11:09	28°♄12'04	1.45671 AU	minimum elong	10734 Mar 22 16:50	5°♄28'15	1°11'12
	10733 Apr 14 14:47	0°♄		max. Earth dist.	10734 Mar 27 06:39	12°♄43'30	1.45281 AU
evening rise	10733 Apr 28 09:06	21°♄31'30			10734 Apr 07 09:33	0°♄	
	10733 May 03 18:50	0°♄		evening rise	10734 Apr 08 00:44	0°♄58'20	

greatest brilliancy	10734 Apr 22 17:31	23°♄09'04	-0.6m	minimum elong	10735 Mar 03 09:20	16°♄13'30	0°29'04
	10734 Apr 27 13:29	0°♄		max. Earth dist.	10735 Mar 10 00:27	27°♄02'50	1.44189 AU
evening max el	10734 May 04 10:49	8°♄23'06	19°55'35		10735 Mar 11 20:52	0°♄	
asc. node	10734 May 05 21:12	9°♄44'31		evening rise	10735 Mar 18 12:43	10°♄25'04	
retrograde	10734 May 12 00:08	12°♄42'47			10735 Mar 31 13:39	0°♄	
evening set	10734 May 15 19:46	11°♄18'08		evening max el	10735 Apr 17 10:19	22°♄07'11	21°01'54
inferior conj	10734 May 21 03:43	5°♄18'31	3°16'28	asc. node	10735 Apr 22 18:23	26°♄17'00	
minimum elong	10734 May 21 03:15	5°♄20'03	3°15'57	retrograde	10735 Apr 25 22:45	27°♄06'16	
min. Earth dist.	10734 May 22 03:29	3°♄58'28	0.67595 AU	evening set	10735 Apr 30 04:16	25°♄25'44	
	10734 May 25 09:24	30°♄		inferior conj	10735 May 05 10:56	19°♄14'01	3°05'42
morning rise	10734 May 26 10:24	28°♄58'45		minimum elong	10735 May 05 09:34	19°♄18'46	3°05'07
direct	10734 Jun 01 06:15	26°♄23'23		min. Earth dist.	10735 May 05 20:59	18°♄39'11	0.68358 AU
desc. node	10734 Jun 08 16:39	29°♄32'42		morning rise	10735 May 10 14:38	12°♄58'07	
	10734 Jun 09 06:36	0°♄		direct	10735 May 15 21:39	10°♄38'21	
morning max el	10734 Jun 13 02:00	3°♄29'06	24°59'16	morning max el	10735 May 26 11:41	16°♄56'44	23°30'20
	10734 Jul 03 07:54	0°♄		desc. node	10735 May 26 13:36	17°♄01'36	
morning set	10734 Jul 19 00:43	25°♄47'09			10735 Jun 06 07:14	0°♄	
	10734 Jul 21 08:55	0°♄			10735 Jun 26 08:36	0°♄	
max. Earth dist.	10734 Jul 22 14:49	2°♄17'05	1.36858 AU	morning set	10735 Jun 30 12:14	6°♄52'57	
				max. Earth dist.	10735 Jul 04 11:52	13°♄43'34	1.39128 AU
superior conj	10734 Jul 29 04:19	14°♄47'33	-0°34'58				
minimum elong	10734 Jul 29 06:34	14°♄58'35	0°34'58	superior conj	10735 Jul 12 01:51	27°♄25'50	-1°08'22
asc. node	10734 Aug 01 20:29	22°♄06'05		minimum elong	10735 Jul 12 06:29	27°♄47'27	1°08'09
	10734 Aug 05 18:19	0°♄			10735 Jul 13 10:43	0°♄	
evening rise	10734 Aug 06 12:05	1°♄29'34		asc. node	10735 Jul 19 17:22	12°♄03'07	
evening max el	10734 Aug 23 13:55	29°♄29'30	19°34'26	evening rise	10735 Jul 21 09:06	15°♄16'01	
	10734 Aug 24 02:31	0°♄			10735 Jul 29 07:06	0°♄	
retrograde	10734 Sep 02 08:02	4°♄20'11		evening max el	10735 Aug 06 13:04	11°♄28'39	18°43'55
evening set	10734 Sep 04 04:25	4°♄10'31		retrograde	10735 Aug 14 18:51	15°♄35'48	
desc. node	10734 Sep 04 14:57	4°♄05'29		evening set	10735 Aug 16 17:55	15°♄22'38	
inferior conj	10734 Sep 12 23:13	0°♄06'03	-2°34'31	desc. node	10735 Aug 22 12:13	12°♄37'27	
minimum elong	10734 Sep 12 16:20	0°♄16'57	2°32'00	inferior conj	10735 Aug 24 19:04	10°♄59'46	-0°42'32
	10734 Sep 13 03:02	30°♄		minimum elong	10735 Aug 24 17:19	11°♄02'59	0°42'05
min. Earth dist.	10734 Sep 15 07:15	28°♄37'35	0.55452 AU	min. Earth dist.	10735 Aug 27 22:41	8°♄41'17	0.57044 AU
morning rise	10734 Sep 21 02:04	25°♄40'09		morning rise	10735 Sep 01 13:21	5°♄56'26	
direct	10734 Sep 26 01:03	24°♄45'19		direct	10735 Sep 07 06:46	4°♄36'23	
	10734 Oct 08 01:03	0°♄		morning max el	10735 Sep 21 13:40	12°♄03'05	26°30'06
morning max el	10734 Oct 09 23:12	1°♄43'03	24°58'06		10735 Oct 05 13:21	0°♄	
asc. node	10734 Oct 28 21:07	28°♄43'50		asc. node	10735 Oct 15 17:58	18°♄06'50	
	10734 Oct 29 13:14	0°♄		morning set	10735 Oct 20 13:43	28°♄02'23	
morning set	10734 Nov 05 03:19	13°♄23'15			10735 Oct 21 11:39	0°♄	
superior conj	10734 Nov 11 23:09	28°♄19'05	1°38'47	superior conj	10735 Oct 27 10:23	13°♄06'19	1°32'31
minimum elong	10734 Nov 11 22:31	28°♄15'36	1°39'13	minimum elong	10735 Oct 27 08:51	12°♄57'45	1°32'45
	10734 Nov 12 17:32	0°♄		max. Earth dist.	10735 Oct 27 23:50	14°♄21'03	1.31625 AU
max. Earth dist.	10734 Nov 13 16:10	2°♄03'39	1.32294 AU	evening rise	10735 Nov 03 07:51	28°♄08'29	
evening rise	10734 Nov 19 04:49	13°♄47'34			10735 Nov 04 05:08	0°♄	
	10734 Nov 27 14:50	0°♄		desc. node	10735 Nov 18 09:53	26°♄08'10	
desc. node	10734 Dec 01 12:47	6°♄46'43			10735 Nov 20 21:56	0°♄	
	10734 Dec 17 23:51	0°♄		evening max el	10735 Dec 04 12:20	16°♄49'35	27°10'55
evening max el	10734 Dec 22 05:47	4°♄25'29	27°31'04	retrograde	10735 Dec 18 09:49	24°♄01'36	
retrograde	10735 Jan 05 00:45	11°♄44'44		evening set	10735 Dec 25 08:34	21°♄53'27	
evening set	10735 Jan 12 00:44	9°♄19'48		min. Earth dist.	10735 Dec 29 02:52	19°♄09'39	0.60814 AU
min. Earth dist.	10735 Jan 15 18:26	6°♄14'14	0.62875 AU	inferior conj	10736 Jan 01 05:46	16°♄29'33	-3°19'31
inferior conj	10735 Jan 18 13:58	3°♄30'08	-2°03'36	minimum elong	10736 Jan 01 12:27	16°♄15'13	3°16'36
minimum elong	10735 Jan 18 18:02	3°♄20'12	2°01'28	morning rise	10736 Jan 08 18:57	11°♄37'54	
	10735 Jan 22 12:56	30°♄		direct	10736 Jan 10 22:29	11°♄19'16	
asc. node	10735 Jan 24 20:29	28°♄36'16		asc. node	10736 Jan 11 17:38	11°♄21'55	
morning rise	10735 Jan 25 13:38	28°♄18'54		morning max el	10736 Jan 18 03:22	14°♄55'54	17°57'28
direct	10735 Jan 27 20:56	27°♄54'03			10736 Jan 28 12:20	0°♄	
	10735 Feb 02 01:07	0°♄		morning set	10736 Feb 02 18:02	9°♄29'06	
morning max el	10735 Feb 03 12:13	1°♄18'02	17°46'57				
morning set	10735 Feb 19 14:06	26°♄00'00		superior conj	10736 Feb 13 01:00	28°♄03'18	0°10'23
	10735 Feb 21 21:05	0°♄		minimum elong	10736 Feb 13 01:54	28°♄07'13	0°10'35
desc. node	10735 Feb 27 12:47	9°♄44'32		behind sun begin	10736 Feb 12 19:47	27°♄40'26	
				behind sun end	10736 Feb 13 08:01	28°♄33'58	
superior conj	10735 Mar 03 12:21	16°♄26'03	-0°29'43	desc. node	10736 Feb 14 09:32	0°♄24'51	

	10736 Feb 14 03:48	0° H		minimum elong	10737 Jan 25 14:23	10° \approx 55'17	0°43'48
max. Earth dist.	10736 Feb 20 14:12	10° H 53'33	1.42516 AU	desc. node	10737 Jan 31 06:20	21° \approx 06'48	
evening rise	10736 Feb 26 11:42	20° H 25'59		max. Earth dist.	10737 Feb 01 23:00	24° \approx 03'32	1.40452 AU
	10736 Mar 03 15:26	0° Y			10737 Feb 05 11:02	0° H	
	10736 Mar 24 23:41	0° B		evening rise	10737 Feb 06 06:31	1° H 21'01	
evening max el	10736 Mar 30 04:37	5° B 51'54	22°17'53		10737 Feb 25 00:12	0° Y	
retrograde	10736 Apr 08 20:01	11° B 33'58		evening max el	10737 Mar 12 19:28	19° Y 39'12	23°38'14
asc. node	10736 Apr 08 15:35	11° B 33'48		retrograde	10737 Mar 23 14:38	26° Y 01'27	
evening set	10736 Apr 13 12:22	9° B 38'08		asc. node	10737 Mar 26 12:50	25° Y 20'57	
inferior conj	10736 Apr 18 19:54	3° B 16'41	2°44'34	evening set	10737 Mar 28 18:33	23° Y 51'41	
minimum elong	10736 Apr 18 17:55	3° B 23'34	2°43'52	min. Earth dist.	10737 Apr 02 13:49	18° Y 14'57	0.68522 AU
min. Earth dist.	10736 Apr 18 17:07	3° B 26'21	0.68661 AU	inferior conj	10737 Apr 03 04:45	17° Y 23'47	2°13'49
	10736 Apr 21 06:19	30° R Y		minimum elong	10737 Apr 03 02:34	17° Y 31'17	2°13'04
morning rise	10736 Apr 23 23:20	27° Y 05'57		morning rise	10737 Apr 08 10:35	11° Y 19'23	
direct	10736 Apr 28 16:47	25° Y 06'19		direct	10737 Apr 12 14:45	9° Y 41'27	
	10736 May 07 10:42	0° B		morning max el	10737 Apr 20 18:07	14° Y 19'58	20°41'29
morning max el	10736 May 07 23:58	0° B 32'41	22°01'53	desc. node	10737 Apr 29 07:17	24° Y 39'03	
desc. node	10736 May 12 10:28	5° B 28'57			10737 May 03 03:42	0° B	
	10736 May 30 02:30	0° II		morning set	10737 May 20 07:01	25° B 38'25	
morning set	10736 Jun 09 21:50	16° II 47'45			10737 May 23 01:57	0° II	
max. Earth dist.	10736 Jun 15 11:45	25° II 56'20	1.41382 AU	max. Earth dist.	10737 May 28 17:51	9° II 01'24	1.43344 AU
	10736 Jun 17 21:36	0° E					
				superior conj	10737 Jun 04 10:06	20° II 00'04	-2°03'18
superior conj	10736 Jun 23 05:11	9° E 12'48	-1°39'31	minimum elong	10737 Jun 04 15:37	20° II 23'13	2°03'31
minimum elong	10736 Jun 23 11:33	9° E 40'56	1°39'22		10737 Jun 10 07:05	0° E	
evening rise	10736 Jul 03 19:10	28° E 29'40		evening rise	10737 Jun 16 13:53	11° E 00'06	
	10736 Jul 04 14:40	0° O		asc. node	10737 Jun 22 11:13	21° E 19'28	
asc. node	10736 Jul 05 14:15	1° O 49'05			10737 Jun 27 18:42	0° O	
evening max el	10736 Jul 19 20:52	24° O 05'17	18°14'11	evening max el	10737 Jul 03 09:28	7° O 10'29	18°04'11
retrograde	10736 Jul 27 00:46	27° O 42'35		retrograde	10737 Jul 09 22:38	10° O 32'46	
evening set	10736 Jul 29 06:46	27° O 21'48		evening set	10737 Jul 12 12:33	10° O 01'01	
inferior conj	10736 Aug 05 12:41	22° O 38'24	0°51'12	inferior conj	10737 Jul 19 01:47	4° O 58'08	1°59'31
minimum elong	10736 Aug 05 14:19	22° O 34'51	0°50'14	minimum elong	10737 Jul 19 04:32	4° O 51'17	1°58'13
desc. node	10736 Aug 08 09:29	20° O 10'09		min. Earth dist.	10737 Jul 22 03:59	1° O 54'57	0.61412 AU
min. Earth dist.	10736 Aug 08 21:03	19° O 46'14	0.59137 AU		10737 Jul 24 08:10	30° R E	
morning rise	10736 Aug 12 18:34	17° O 00'58		morning rise	10737 Jul 25 18:02	28° E 56'58	
direct	10736 Aug 19 02:16	15° O 11'29		desc. node	10737 Jul 26 06:42	28° E 36'10	
morning max el	10736 Sep 02 11:10	22° O 59'31	27°32'22	direct	10737 Aug 01 09:47	26° E 40'11	
	10736 Sep 08 17:19	0° M			10737 Aug 10 04:20	0° O	
	10736 Sep 27 15:52	0° E		morning max el	10737 Aug 15 15:22	4° O 40'47	27°56'54
asc. node	10736 Oct 01 14:46	7° E 48'20			10737 Sep 03 13:00	0° M	
morning set	10736 Oct 03 21:04	12° E 29'47		morning set	10737 Sep 17 23:27	26° M 40'03	
				asc. node	10737 Sep 18 11:33	27° M 42'37	
superior conj	10736 Oct 10 22:04	27° E 51'26	1°20'43		10737 Sep 19 13:52	0° E	
minimum elong	10736 Oct 10 19:58	27° E 39'42	1°20'40	max. Earth dist.	10737 Sep 23 16:33	8° E 49'59	1.31735 AU
max. Earth dist.	10736 Oct 10 09:15	26° E 40'04	1.31433 AU				
	10736 Oct 11 21:10	0° M		superior conj	10737 Sep 25 08:24	12° E 28'53	1°03'36
evening rise	10736 Oct 17 15:41	12° M 40'28		minimum elong	10737 Sep 25 06:10	12° E 16'36	1°03'18
	10736 Oct 26 07:51	0° A		evening rise	10737 Oct 02 02:17	27° E 17'43	
desc. node	10736 Nov 04 07:04	14° A 47'54			10737 Oct 03 08:42	0° M	
evening max el	10736 Nov 15 11:36	28° A 23'42	26°16'42		10737 Oct 20 07:16	0° A	
	10736 Nov 17 06:30	0° B		desc. node	10737 Oct 22 04:18	2° A 29'08	
retrograde	10736 Nov 29 09:45	5° B 28'41		evening max el	10737 Oct 28 02:44	9° A 07'33	24°53'27
evening set	10736 Dec 05 21:46	3° B 46'37		retrograde	10737 Nov 10 22:33	16° A 03'57	
min. Earth dist.	10736 Dec 10 00:47	1° B 11'41	0.58694 AU	evening set	10737 Nov 16 11:41	14° A 54'52	
	10736 Dec 11 15:43	30° R A		min. Earth dist.	10737 Nov 21 14:26	12° A 10'48	0.56757 AU
inferior conj	10736 Dec 13 04:17	28° A 51'18	-4°32'21	inferior conj	10737 Nov 24 06:44	10° A 26'33	-5°28'05
minimum elong	10736 Dec 13 12:21	28° A 36'16	4°29'39	minimum elong	10737 Nov 24 12:34	10° A 17'03	5°26'46
morning rise	10736 Dec 21 05:34	24° A 21'55		morning rise	10737 Dec 02 15:42	6° A 19'06	
direct	10736 Dec 23 09:20	24° A 06'10		direct	10737 Dec 05 01:32	6° A 02'46	
asc. node	10736 Dec 28 14:44	25° A 44'36		morning max el	10737 Dec 14 11:52	10° A 33'41	19°20'06
morning max el	10736 Dec 31 12:35	28° A 05'04	18°27'55	asc. node	10737 Dec 15 11:47	11° A 33'59	
	10737 Jan 02 07:31	0° B			10737 Dec 27 10:25	0° B	
morning set	10737 Jan 16 10:52	23° B 33'27		morning set	10737 Dec 31 12:25	8° B 00'08	
	10737 Jan 19 19:20	0° \approx					
				superior conj	10738 Jan 08 15:12	24° B 08'29	1°09'07
superior conj	10737 Jan 25 11:37	10° \approx 42'28	0°43'46	minimum elong	10738 Jan 08 18:13	24° B 23'09	1°09'16

	10738 Jan 11 16:30	0°≈		minimum elong	10738 Dec 23 09:35	8°≈20'38	1°26'50
max. Earth dist.	10738 Jan 15 04:50	6°≈31'09	1.38244 AU	max. Earth dist.	10738 Dec 28 12:44	18°≈31'56	1.36135 AU
desc. node	10738 Jan 18 03:11	11°≈46'07		evening rise	10739 Jan 01 10:05	25°≈52'05	
evening rise	10738 Jan 18 22:45	13°≈11'54			10739 Jan 03 16:44	0°≈	
	10738 Jan 29 02:49	0°≈		desc. node	10739 Jan 05 00:06	2°≈19'05	
	10738 Feb 20 01:35	0°≈			10739 Jan 22 14:40	0°≈	
evening max el	10738 Feb 23 08:55	3°≈28'53	24°56'39	evening max el	10739 Feb 05 22:28	17°≈18'11	26°05'49
retrograde	10738 Mar 07 05:16	10°≈22'30		retrograde	10739 Feb 18 14:55	24°≈31'16	
evening set	10738 Mar 12 21:13	8°≈00'59		evening set	10739 Feb 24 18:43	22°≈01'17	
asc. node	10738 Mar 13 10:07	7°≈32'21		asc. node	10739 Feb 28 07:23	18°≈24'04	
min. Earth dist.	10738 Mar 17 08:50	2°≈59'14	0.67960 AU	min. Earth dist.	10739 Feb 28 23:53	17°≈34'19	0.67000 AU
inferior conj	10738 Mar 18 11:36	1°≈31'02	1°33'43	inferior conj	10739 Mar 02 14:30	15°≈34'34	0°44'18
minimum elong	10738 Mar 18 09:40	1°≈37'24	1°33'05	minimum elong	10739 Mar 02 13:24	15°≈37'59	0°44'04
	10738 Mar 19 15:33	30°≈		morning rise	10739 Mar 08 08:45	9°≈47'26	
morning rise	10738 Mar 23 22:23	25°≈34'19		direct	10739 Mar 11 13:19	8°≈49'30	
direct	10738 Mar 27 14:08	24°≈17'30		morning max el	10739 Mar 18 05:01	12°≈25'04	18°42'23
morning max el	10738 Apr 03 19:52	28°≈18'17	19°34'07		10739 Mar 31 04:41	0°≈	
	10738 Apr 05 10:38	0°≈		desc. node	10739 Apr 03 00:49	4°≈23'14	
desc. node	10738 Apr 16 04:04	14°≈19'54		morning set	10739 Apr 08 18:23	13°≈20'21	
greatest brilliancy	10738 Apr 16 12:27	14°≈50'40	-0.7m		10739 Apr 19 10:05	0°≈	
	10738 Apr 26 13:44	0°≈		max. Earth dist.	10739 Apr 24 00:25	7°≈11'16	1.45563 AU
morning set	10738 Apr 29 06:02	4°≈06'47					
max. Earth dist.	10738 May 11 06:31	22°≈50'46	1.44788 AU	superior conj	10739 Apr 25 01:05	8°≈47'53	-2°03'26
				minimum elong	10739 Apr 24 18:02	8°≈20'16	2°03'22
superior conj	10738 May 15 14:51	29°≈45'58	-2°13'07		10739 May 08 11:00	0°≈	
minimum elong	10738 May 15 15:06	29°≈46'55	2°13'34	evening rise	10739 May 10 10:51	3°≈11'20	
	10738 May 15 18:21	0°≈		greatest brilliancy	10739 May 17 14:55	14°≈40'06	-0.9m
evening rise	10738 May 29 12:17	22°≈35'51		asc. node	10739 May 27 05:22	29°≈07'14	
	10738 Jun 02 22:07	0°≈			10739 May 27 21:20	0°≈	
asc. node	10738 Jun 09 08:16	10°≈28'11		evening max el	10739 May 31 11:30	4°≈10'37	18°39'44
evening max el	10738 Jun 16 23:21	20°≈35'03	18°12'59	retrograde	10739 Jun 07 00:57	7°≈45'29	
retrograde	10738 Jun 23 08:03	23°≈56'48		evening set	10739 Jun 10 06:56	6°≈45'20	
evening set	10738 Jun 26 05:56	23°≈11'36		inferior conj	10739 Jun 15 22:18	1°≈08'08	3°08'40
inferior conj	10738 Jul 02 06:20	17°≈50'49	2°43'58	minimum elong	10739 Jun 15 23:39	1°≈03'58	3°07'56
minimum elong	10738 Jul 02 08:43	17°≈44'09	2°42'56		10739 Jun 16 20:27	30°≈	
min. Earth dist.	10738 Jul 04 20:08	14°≈58'57	0.63586 AU	min. Earth dist.	10739 Jun 17 21:15	28°≈44'36	0.65466 AU
morning rise	10738 Jul 08 09:58	11°≈36'22		morning rise	10739 Jun 21 15:35	24°≈48'00	
desc. node	10738 Jul 13 03:52	9°≈13'26		direct	10739 Jun 28 03:18	22°≈04'29	
direct	10738 Jul 15 02:44	9°≈00'41		desc. node	10739 Jun 30 00:59	22°≈16'56	
morning max el	10738 Jul 29 00:01	17°≈03'07	27°43'37	morning max el	10739 Jul 11 10:37	29°≈56'19	26°57'39
	10738 Aug 08 18:00	0°≈			10739 Jul 11 12:04	0°≈	
	10738 Aug 27 08:14	0°≈		morning set	10739 Aug 02 16:46	0°≈	
morning set	10738 Sep 01 18:36	10°≈27'14			10739 Aug 16 03:31	23°≈42'46	
asc. node	10738 Sep 05 08:21	17°≈45'02			10739 Aug 19 08:39	0°≈	
max. Earth dist.	10738 Sep 06 17:59	20°≈41'37	1.32547 AU	max. Earth dist.	10739 Aug 20 10:22	2°≈09'00	1.33868 AU
				asc. node	10739 Aug 23 05:09	7°≈50'38	
superior conj	10738 Sep 09 15:28	26°≈53'17	0°41'27				
minimum elong	10738 Sep 09 13:39	26°≈43'32	0°41'01	superior conj	10739 Aug 24 16:58	10°≈57'23	0°14'38
	10738 Sep 11 01:54	0°≈		minimum elong	10739 Aug 24 16:13	10°≈53'27	0°14'15
evening rise	10738 Sep 16 13:48	11°≈55'07		behind sun begin	10739 Aug 24 13:34	10°≈39'37	
	10738 Sep 25 16:18	0°≈		behind sun end	10739 Aug 24 18:51	11°≈07'17	
desc. node	10738 Oct 09 01:34	18°≈49'50		evening rise	10739 Sep 01 00:13	26°≈26'15	
evening max el	10738 Oct 09 13:30	19°≈19'14	23°14'13		10739 Sep 02 17:10	0°≈	
retrograde	10738 Oct 22 22:19	25°≈58'46		evening max el	10739 Sep 21 04:14	29°≈31'39	21°36'14
evening set	10738 Oct 27 02:05	25°≈21'14			10739 Sep 21 15:58	0°≈	
min. Earth dist.	10738 Nov 02 23:05	22°≈09'48	0.55311 AU	desc. node	10739 Sep 25 22:52	3°≈21'01	
inferior conj	10738 Nov 04 13:32	21°≈13'54	-5°46'05	retrograde	10739 Oct 03 11:40	5°≈38'42	
minimum elong	10738 Nov 04 12:16	21°≈15'44	5°45'38	evening set	10739 Oct 06 06:13	5°≈21'14	
morning rise	10738 Nov 13 00:12	17°≈22'53		inferior conj	10739 Oct 15 07:13	1°≈24'46	-5°08'33
direct	10738 Nov 15 23:12	17°≈01'56		minimum elong	10739 Oct 14 22:37	1°≈36'48	5°06'38
morning max el	10738 Nov 26 22:03	22°≈12'46	20°35'03	min. Earth dist.	10739 Oct 15 06:05	1°≈26'21	0.54634 AU
asc. node	10738 Dec 02 08:48	28°≈34'34			10739 Oct 17 20:59	30°≈	
	10738 Dec 03 08:51	0°≈		morning rise	10739 Oct 23 16:04	27°≈36'15	
morning set	10738 Dec 15 19:37	22°≈40'45		direct	10739 Oct 27 08:38	27°≈06'42	
	10738 Dec 19 08:22	0°≈			10739 Nov 05 00:33	0°≈	
				morning max el	10739 Nov 08 18:51	3°≈01'04	22°10'35
superior conj	10738 Dec 23 07:16	8°≈08'51	1°26'29	asc. node	10739 Nov 19 05:45	16°≈30'04	

	10739 Nov 26 15:05	0°♊	direct	10740 Oct 06 18:24	6°♊38'55	
morning set	10739 Nov 30 06:04	7°♊27'46	morning max el	10740 Oct 20 07:22	13°♊15'27	23°57'32
				10740 Nov 02 03:22	0°♋	
superior conj	10739 Dec 07 08:05	22°♊32'34 1°36'28	asc. node	10740 Nov 05 02:38	5°♋07'31	
minimum elong	10739 Dec 07 09:17	22°♊38'52 1°36'58	morning set	10740 Nov 13 17:49	22°♋15'39	
	10739 Dec 10 22:02	0°♌		10740 Nov 17 07:42	0°♊	
max. Earth dist.	10739 Dec 11 03:01	0°♌25'30 1.34310 AU				
evening rise	10739 Dec 15 12:47	9°♌11'26	superior conj	10740 Nov 20 14:45	7°♊11'07 1°39'44	
desc. node	10739 Dec 22 21:06	22°♌40'48	minimum elong	10740 Nov 20 14:45	7°♊11'07 1°40'14	
	10739 Dec 27 05:19	0°♍	max. Earth dist.	10740 Nov 23 01:06	12°♊25'41 1.32895 AU	
	10740 Jan 18 12:06	0°♍	evening rise	10740 Nov 28 03:18	23°♊00'54	
evening max el	10740 Jan 19 12:03	0°♍58'52 26°58'28		10740 Dec 01 16:41	0°♌	
retrograde	10740 Feb 01 18:46	8°♍20'49	desc. node	10740 Dec 08 18:07	12°♌45'21	
evening set	10740 Feb 08 09:09	5°♍47'01		10740 Dec 19 22:08	0°♍	
min. Earth dist.	10740 Feb 12 08:43	1°♍54'07 0.65657 AU	evening max el	10741 Jan 01 00:27	14°♍19'20 27°27'28	
inferior conj	10740 Feb 14 11:13	29°♍29'35 -0°14'20	retrograde	10741 Jan 14 16:15	21°♍41'56	
minimum elong	10740 Feb 14 11:37	29°♍28'26 0°13'50	evening set	10741 Jan 21 14:10	19°♍11'03	
transit middle	10740 Feb 14 11:37	29°♍28'26 0°13'50	min. Earth dist.	10741 Jan 25 09:14	15°♍49'48 0.63970 AU	
transit begin	10740 Feb 14 10:07	29°♍32'45	inferior conj	10741 Jan 27 23:09	13°♍09'19 -1°21'39	
transit end	10740 Feb 14 13:07	29°♍24'08	minimum elong	10741 Jan 28 01:44	13°♍02'36 1°20'07	
	10740 Feb 14 00:39	30°♎	asc. node	10741 Feb 01 01:49	9°♎19'06	
asc. node	10740 Feb 15 04:37	28°♎40'00	morning rise	10741 Feb 03 15:17	7°♎48'46	
morning rise	10740 Feb 20 15:22	23°♎54'23	direct	10741 Feb 06 02:08	7°♎18'46	
direct	10740 Feb 23 10:12	23°♎12'15	morning max el	10741 Feb 12 13:10	10°♎39'23 17°49'21	
morning max el	10740 Feb 29 19:44	26°♎34'50 18°07'19		10741 Feb 25 18:25	0°♏	
	10740 Mar 03 20:15	0°♏	morning set	10741 Mar 01 06:38	5°♏57'32	
morning set	10740 Mar 19 10:32	23°♏58'21	desc. node	10741 Mar 06 18:18	15°♏14'04	
desc. node	10740 Mar 19 21:34	24°♏43'06				
	10740 Mar 23 03:52	0°♐	superior conj	10741 Mar 14 06:51	27°♏37'52 -0°54'18	
			minimum elong	10741 Mar 14 00:59	27°♏14'07 0°53'24	
superior conj	10740 Apr 03 08:29	17°♐49'34 -1°34'37		10741 Mar 15 18:04	0°♐	
minimum elong	10740 Apr 02 23:05	17°♐12'36 1°33'46	max. Earth dist.	10741 Mar 19 15:41	6°♐13'35 1.44891 AU	
max. Earth dist.	10740 Apr 05 20:36	21°♐45'24 1.45595 AU	evening rise	10741 Mar 29 23:25	22°♐17'47	
	10740 Apr 11 03:21	0°♑		10741 Apr 04 00:46	0°♑	
evening rise	10740 Apr 19 11:19	12°♑56'14		10741 Apr 25 10:48	0°♒	
	10740 Apr 30 13:28	0°♒	evening max el	10741 Apr 26 22:10	1°♒34'01 20°22'18	
greatest brilliancy	10740 May 01 22:24	2°♒04'01 -0.7m	asc. node	10741 Apr 29 23:41	4°♒15'29	
asc. node	10740 May 13 02:31	17°♒07'15	retrograde	10741 May 04 20:50	6°♒10'14	
evening max el	10740 May 13 19:35	17°♒51'35 19°23'25	evening set	10741 May 08 20:30	4°♒38'46	
retrograde	10740 May 20 22:06	21°♒52'03		10741 May 13 02:04	30°♓	
evening set	10740 May 24 12:33	20°♒36'19	inferior conj	10741 May 14 03:35	28°♓33'30 3°13'13	
inferior conj	10740 May 29 22:19	14°♒44'12 3°17'26	minimum elong	10741 May 14 02:42	28°♓36'29 3°12'42	
minimum elong	10740 May 29 22:30	14°♒43'36 3°16'54	min. Earth dist.	10741 May 14 21:21	27°♓32'40 0.67971 AU	
min. Earth dist.	10740 May 31 06:16	12°♒59'33 0.66942 AU	morning rise	10741 May 19 08:39	22°♓14'58	
morning rise	10740 Jun 04 08:03	8°♒23'19	direct	10741 May 24 23:02	19°♓45'40	
direct	10740 Jun 10 10:23	5°♒42'35	desc. node	10741 Jun 02 18:59	24°♓11'07	
desc. node	10740 Jun 15 22:01	7°♒26'06	morning max el	10741 Jun 05 06:53	26°♓33'03 24°21'58	
morning max el	10740 Jun 22 21:12	13°♒09'38 25°47'12		10741 Jun 08 11:25	0°♓	
	10740 Jul 06 11:40	0°♔		10741 Jun 30 01:40	0°♔	
	10740 Jul 25 10:26	0°♕	morning set	10741 Jul 10 23:04	17°♔59'21	
morning set	10740 Jul 28 22:35	6°♕17'34	max. Earth dist.	10741 Jul 14 14:35	24°♔26'35 1.37803 AU	
max. Earth dist.	10740 Aug 01 16:25	13°♕17'27 1.35658 AU		10741 Jul 17 15:32	0°♖	
superior conj	10740 Aug 07 10:17	24°♖34'31 -0°16'04	superior conj	10741 Jul 21 16:06	7°♖36'14 -0°49'10	
minimum elong	10740 Aug 07 11:15	24°♖39'28 0°16'14	minimum elong	10741 Jul 21 19:21	7°♖51'54 0°49'03	
asc. node	10740 Aug 09 01:59	27°♖55'54	asc. node	10741 Jul 26 22:50	17°♖56'42	
	10740 Aug 10 02:14	0°♗	evening rise	10741 Jul 30 09:04	24°♖45'30	
evening rise	10740 Aug 15 07:29	10°♗45'27		10741 Aug 02 00:59	0°♘	
	10740 Aug 25 11:58	0°♘	evening max el	10741 Aug 15 23:06	21°♘50'43 19°10'22	
evening max el	10740 Sep 02 06:47	10°♘17'45 20°13'01	retrograde	10741 Aug 25 01:02	26°♘21'53	
desc. node	10740 Sep 11 20:08	15°♘34'07	evening set	10741 Aug 26 21:25	26°♘11'25	
retrograde	10740 Sep 13 00:38	15°♘37'53	desc. node	10741 Aug 29 17:23	25°♘18'16	
evening set	10740 Sep 15 00:03	15°♘27'51	inferior conj	10741 Sep 04 09:22	21°♘59'57 -1°45'53	
inferior conj	10740 Sep 24 01:15	11°♘29'32 -3°39'00	minimum elong	10741 Sep 04 04:43	22°♘07'47 1°44'12	
minimum elong	10740 Sep 23 15:59	11°♘43'15 3°35'55	min. Earth dist.	10741 Sep 07 03:42	20°♘08'34 0.56040 AU	
min. Earth dist.	10740 Sep 25 14:52	10°♘33'52 0.54886 AU	morning rise	10741 Sep 12 09:03	17°♘17'57	
morning rise	10740 Oct 02 07:02	7°♘22'08	direct	10741 Sep 17 15:57	16°♘13'14	

morning max el	10741 Oct 01 19:21	23° \mathbb{M} 25'13	25°40'04	transit end	10742 Aug 16 18:01	3° \mathbb{M} 05'03	
	10741 Oct 07 18:01	0° \mathbb{A}		desc. node	10742 Aug 16 14:40	3° \mathbb{M} 11'40	
asc. node	10741 Oct 22 23:29	24° \mathbb{A} 16'32		min. Earth dist.	10742 Aug 19 21:58	0° \mathbb{M} 36'29	0.57888 AU
	10741 Oct 25 20:51	0° \mathbb{M}			10742 Aug 20 17:52	30° \mathbb{R} \mathbb{Q}	
morning set	10741 Oct 29 05:12	6° \mathbb{M} 59'44		morning rise	10742 Aug 24 03:46	27° \mathbb{Q} 53'20	
				direct	10742 Aug 30 04:12	26° \mathbb{Q} 20'33	
superior conj	10741 Nov 05 00:56	21° \mathbb{M} 57'38	1°36'50		10742 Sep 08 20:13	0° \mathbb{M}	
minimum elong	10741 Nov 04 23:53	21° \mathbb{M} 51'48	1°37'12	morning max el	10742 Sep 13 12:27	3° \mathbb{M} 57'50	27°00'54
max. Earth dist.	10741 Nov 06 05:57	24° \mathbb{M} 37'40	1.31945 AU		10742 Oct 02 11:31	0° \mathbb{A}	
	10741 Nov 08 16:59	0° \mathbb{A}		asc. node	10742 Oct 09 20:18	13° \mathbb{A} 47'54	
evening rise	10741 Nov 12 02:33	7° \mathbb{A} 12'58		morning set	10742 Oct 13 14:29	21° \mathbb{A} 34'10	
	10741 Nov 24 04:12	0° \mathbb{B}			10742 Oct 17 11:43	0° \mathbb{M}	
desc. node	10741 Nov 25 15:11	2° \mathbb{B} 25'34					
evening max el	10741 Dec 14 09:52	27° \mathbb{B} 08'03	27°26'38	superior conj	10742 Oct 20 12:36	6° \mathbb{M} 44'41	1°28'12
	10741 Dec 17 17:36	0° \mathbb{A}		minimum elong	10742 Oct 20 10:46	6° \mathbb{M} 34'30	1°28'18
retrograde	10741 Dec 28 06:32	4° \mathbb{A} 25'19		max. Earth dist.	10742 Oct 20 14:39	6° \mathbb{M} 56'09	1.31479 AU
evening set	10742 Jan 04 06:50	2° \mathbb{A} 06'09		evening rise	10742 Oct 27 07:53	21° \mathbb{M} 39'24	
	10742 Jan 07 01:30	30° \mathbb{R} \mathbb{B}			10742 Oct 31 08:56	0° \mathbb{A}	
min. Earth dist.	10742 Jan 07 24:00	29° \mathbb{B} 11'05	0.62014 AU	desc. node	10742 Nov 12 12:18	21° \mathbb{A} 30'51	
inferior conj	10742 Jan 10 23:19	26° \mathbb{B} 26'33	-2°35'36		10742 Nov 18 10:55	0° \mathbb{B}	
minimum elong	10742 Jan 11 04:33	26° \mathbb{B} 14'27	2°33'03	evening max el	10742 Nov 26 13:44	9° \mathbb{B} 12'19	26°52'01
morning rise	10742 Jan 18 04:47	21° \mathbb{B} 23'28		retrograde	10742 Dec 10 12:05	16° \mathbb{B} 21'19	
asc. node	10742 Jan 18 22:58	21° \mathbb{B} 11'18		evening set	10742 Dec 17 07:20	14° \mathbb{B} 23'31	
direct	10742 Jan 20 09:57	21° \mathbb{B} 01'50		min. Earth dist.	10742 Dec 21 04:08	11° \mathbb{B} 45'01	0.59907 AU
morning max el	10742 Jan 27 06:12	24° \mathbb{B} 30'16	17°49'05	inferior conj	10742 Dec 24 08:14	9° \mathbb{B} 11'23	-3°51'26
	10742 Jan 31 17:51	0° \mathbb{A}		minimum elong	10742 Dec 24 15:46	8° \mathbb{B} 56'08	3°48'27
morning set	10742 Feb 12 00:50	18° \mathbb{A} 59'42		morning rise	10743 Jan 01 02:53	4° \mathbb{B} 28'41	
	10742 Feb 18 05:46	0° \mathbb{H}		direct	10743 Jan 03 05:48	4° \mathbb{B} 11'44	
desc. node	10742 Feb 21 15:04	5° \mathbb{H} 52'15		asc. node	10743 Jan 05 20:06	4° \mathbb{B} 38'17	
				morning max el	10743 Jan 10 19:16	7° \mathbb{B} 57'04	18°07'47
superior conj	10742 Feb 23 05:21	8° \mathbb{H} 35'32	-0°12'06		10743 Jan 24 23:25	0° \mathbb{A}	
minimum elong	10742 Feb 23 04:14	8° \mathbb{H} 30'44	0°11'41	morning set	10743 Jan 26 10:52	2° \mathbb{A} 45'30	
behind sun begin	10742 Feb 22 22:12	8° \mathbb{H} 05'08					
behind sun end	10742 Feb 23 10:15	8° \mathbb{H} 56'19		superior conj	10743 Feb 05 03:53	20° \mathbb{A} 40'15	0°25'29
max. Earth dist.	10742 Mar 02 07:26	20° \mathbb{H} 20'42	1.43537 AU	minimum elong	10743 Feb 05 05:49	20° \mathbb{A} 48'54	0°25'34
	10742 Mar 08 08:56	0° \mathbb{Y}		desc. node	10743 Feb 08 11:50	26° \mathbb{A} 33'25	
evening rise	10742 Mar 09 14:32	1° \mathbb{Y} 55'30			10743 Feb 10 11:40	0° \mathbb{H}	
	10742 Mar 28 13:13	0° \mathbb{B}		max. Earth dist.	10743 Feb 12 18:50	3° \mathbb{H} 54'00	1.41679 AU
evening max el	10742 Apr 09 19:16	15° \mathbb{B} 17'57	21°33'18	evening rise	10743 Feb 17 21:24	12° \mathbb{H} 18'27	
asc. node	10742 Apr 16 20:52	20° \mathbb{B} 17'31			10743 Mar 01 08:00	0° \mathbb{Y}	
retrograde	10742 Apr 18 19:07	20° \mathbb{B} 35'37		evening max el	10743 Mar 23 12:00	29° \mathbb{Y} 04'06	22°51'58
evening set	10742 Apr 23 05:00	18° \mathbb{B} 48'42			10743 Mar 24 10:54	0° \mathbb{B}	
inferior conj	10742 Apr 28 11:48	12° \mathbb{B} 32'28	2°57'55	retrograde	10743 Apr 02 15:20	5° \mathbb{B} 03'36	
minimum elong	10742 Apr 28 10:08	12° \mathbb{B} 38'16	2°57'19	asc. node	10743 Apr 03 18:06	4° \mathbb{B} 57'36	
min. Earth dist.	10742 Apr 28 16:21	12° \mathbb{B} 16'33	0.68542 AU	evening set	10743 Apr 07 12:29	3° \mathbb{B} 01'50	
morning rise	10742 May 03 15:02	6° \mathbb{B} 18'18			10743 Apr 10 08:41	30° \mathbb{R} \mathbb{Y}	
direct	10742 May 08 16:18	4° \mathbb{B} 06'35		inferior conj	10743 Apr 12 20:58	26° \mathbb{Y} 37'25	2°32'41
morning max el	10742 May 18 17:11	10° \mathbb{B} 03'26	22°52'00	minimum elong	10743 Apr 12 18:51	26° \mathbb{Y} 44'46	2°31'57
desc. node	10742 May 20 15:55	12° \mathbb{B} 06'51		min. Earth dist.	10743 Apr 12 13:03	27° \mathbb{Y} 04'53	0.68658 AU
	10742 Jun 03 10:39	0° \mathbb{I}		morning rise	10743 Apr 18 01:06	20° \mathbb{Y} 29'09	
morning set	10742 Jun 21 23:52	28° \mathbb{I} 35'15		direct	10743 Apr 22 12:56	18° \mathbb{Y} 38'26	
	10742 Jun 22 20:20	0° \mathbb{E}		morning max el	10743 May 01 07:29	23° \mathbb{Y} 43'13	21°26'15
max. Earth dist.	10742 Jun 26 11:30	6° \mathbb{E} 07'36	1.40102 AU		10743 May 06 19:42	0° \mathbb{B}	
				desc. node	10743 May 07 12:48	0° \mathbb{B} 53'57	
superior conj	10742 Jul 04 06:25	19° \mathbb{E} 53'25	-1°22'08		10743 May 27 19:10	0° \mathbb{I}	
minimum elong	10742 Jul 04 11:57	20° \mathbb{E} 18'40	1°21'55	morning set	10743 Jun 01 22:17	7° \mathbb{I} 59'57	
	10742 Jul 09 16:59	0° \mathbb{Q}		max. Earth dist.	10743 Jun 08 13:51	18° \mathbb{I} 43'02	1.42270 AU
asc. node	10742 Jul 13 19:42	7° \mathbb{Q} 49'05			10743 Jun 15 07:00	0° \mathbb{E}	
evening rise	10742 Jul 14 01:52	8° \mathbb{Q} 18'26					
	10742 Jul 26 14:53	0° \mathbb{M}		superior conj	10743 Jun 16 00:46	1° \mathbb{E} 16'25	-1°50'53
evening max el	10742 Jul 30 02:28	4° \mathbb{M} 06'54	18°28'53	minimum elong	10743 Jun 16 07:13	1° \mathbb{E} 44'19	1°50'52
retrograde	10742 Aug 06 19:47	7° \mathbb{M} 59'12		evening rise	10743 Jun 27 06:01	21° \mathbb{E} 15'04	
evening set	10742 Aug 08 21:35	7° \mathbb{M} 43'16		asc. node	10743 Jun 30 16:39	27° \mathbb{E} 29'03	
inferior conj	10742 Aug 16 14:27	3° \mathbb{M} 12'06	0°00'10		10743 Jul 02 02:27	0° \mathbb{Q}	
minimum elong	10742 Aug 16 14:27	3° \mathbb{M} 12'06	0°00'07	evening max el	10743 Jul 13 12:53	16° \mathbb{Q} 57'17	18°07'37
transit middle	10742 Aug 16 14:27	3° \mathbb{M} 12'06	0°00'07	retrograde	10743 Jul 20 08:58	20° \mathbb{Q} 26'03	
transit begin	10742 Aug 16 10:52	3° \mathbb{M} 19'09		evening set	10743 Jul 22 18:27	20° \mathbb{Q} 00'48	

inferior conj	10743 Jul 29 16:49	15°♍08'49	1°23'19	minimum elong	10744 Jul 11 15:44	27°♊36'11	2°19'51
minimum elong	10743 Jul 29 19:10	15°♍03'24	1°22'06	min. Earth dist.	10744 Jul 14 10:17	24°♊42'48	0.62363 AU
min. Earth dist.	10743 Aug 01 23:35	12°♍09'20	0.60104 AU	morning rise	10744 Jul 17 23:41	21°♊35'20	
desc. node	10743 Aug 03 11:56	10°♍53'51		desc. node	10744 Jul 20 09:09	20°♊09'22	
morning rise	10743 Aug 05 16:56	9°♍20'20		direct	10744 Jul 24 16:31	19°♊09'41	
direct	10743 Aug 12 05:06	7°♍18'35		morning max el	10744 Aug 07 19:18	27°♊11'52	27°55'45
morning max el	10743 Aug 26 12:46	15°♍12'13	27°47'37		10744 Aug 10 10:56	0°♍	
	10743 Sep 07 13:10	0°♎			10744 Aug 31 06:03	0°♎	
	10743 Sep 24 22:43	0°♎		morning set	10744 Sep 10 19:34	19°♎55'07	
asc. node	10743 Sep 26 17:07	3°♎35'15		asc. node	10744 Sep 12 13:54	23°♎33'00	
morning set	10743 Sep 27 19:58	5°♎54'30			10744 Sep 15 15:02	0°♎	
max. Earth dist.	10743 Oct 03 23:43	19°♎12'36	1.31504 AU	max. Earth dist.	10744 Sep 16 05:10	1°♎16'11	1.32022 AU
superior conj	10743 Oct 04 23:56	21°♎26'53	1°14'06	superior conj	10744 Sep 18 09:05	5°♎58'40	0°54'47
minimum elong	10743 Oct 04 21:43	21°♎14'35	1°13'56	minimum elong	10744 Sep 18 06:58	5°♎47'04	0°54'26
	10743 Oct 08 20:28	0°♏		evening rise	10744 Sep 25 04:22	20°♎51'42	
evening rise	10743 Oct 11 17:10	6°♏14'16			10744 Sep 29 13:30	0°♏	
	10743 Oct 24 00:35	0°♐		desc. node	10744 Oct 16 06:45	26°♏57'08	
desc. node	10743 Oct 30 09:30	9°♐47'35			10744 Oct 19 01:40	0°♐	
evening max el	10743 Nov 08 09:41	20°♐24'34	25°44'16	evening max el	10744 Oct 19 22:01	0°♐50'12	24°12'05
retrograde	10743 Nov 22 07:06	27°♐25'19		retrograde	10744 Nov 02 14:14	7°♐41'00	
evening set	10743 Nov 28 11:02	25°♐56'59		evening set	10744 Nov 07 14:24	6°♐45'52	
min. Earth dist.	10743 Dec 02 22:08	23°♐20'32	0.57837 AU	min. Earth dist.	10744 Nov 13 08:48	3°♐52'31	0.56065 AU
inferior conj	10743 Dec 05 22:27	21°♐13'59	-4°59'09	inferior conj	10744 Nov 15 16:06	2°♐27'34	-5°41'39
minimum elong	10743 Dec 06 06:09	21°♐00'27	4°56'57	minimum elong	10744 Nov 15 19:26	2°♐22'26	5°40'56
morning rise	10743 Dec 14 03:39	16°♐53'52			10744 Nov 19 23:25	30°♑♏	
direct	10743 Dec 16 09:21	16°♐38'11		morning rise	10744 Nov 24 02:32	28°♏28'39	
asc. node	10743 Dec 23 17:12	19°♐39'01		direct	10744 Nov 26 17:20	28°♏10'49	
morning max el	10743 Dec 25 00:37	20°♐49'28	18°47'17		10744 Dec 02 22:49	0°♐	
	10744 Jan 01 00:52	0°♑		morning max el	10744 Dec 06 18:35	2°♐57'22	19°49'21
morning set	10744 Jan 10 07:51	17°♑00'34		asc. node	10744 Dec 09 14:15	6°♐00'17	
	10744 Jan 16 23:57	0°♒			10744 Dec 23 17:29	0°♑	
				morning set	10744 Dec 24 12:09	1°♑34'16	
superior conj	10744 Jan 18 22:17	3°♒40'32	0°55'30	superior conj	10745 Jan 01 07:44	17°♑22'58	1°17'25
minimum elong	10744 Jan 19 01:19	3°♒54'53	0°55'35	minimum elong	10745 Jan 01 10:32	17°♑36'51	1°17'40
max. Earth dist.	10744 Jan 26 02:25	16°♒46'53	1.39525 AU	max. Earth dist.	10745 Jan 07 08:48	29°♑02'02	1.37318 AU
desc. node	10744 Jan 26 08:39	17°♒14'16			10745 Jan 07 21:16	0°♒	
evening rise	10744 Jan 30 01:26	23°♒37'22		evening rise	10745 Jan 11 02:12	5°♒50'11	
	10744 Feb 02 21:32	0°♓		desc. node	10745 Jan 12 05:31	7°♒51'20	
	10744 Feb 23 04:19	0°♓			10745 Jan 25 19:43	0°♓	
evening max el	10744 Mar 05 02:09	12°♓52'41	24°12'17	evening max el	10745 Feb 15 15:26	26°♓42'43	25°27'32
retrograde	10744 Mar 16 08:14	19°♓28'49			10745 Feb 19 08:10	0°♓	
asc. node	10744 Mar 20 15:23	18°♓03'28		retrograde	10745 Feb 27 20:52	3°♓46'12	
evening set	10744 Mar 21 17:22	17°♓13'39		evening set	10745 Mar 05 18:05	1°♓20'15	
min. Earth dist.	10744 Mar 26 09:12	11°♓52'03	0.68339 AU		10745 Mar 07 04:18	30°♓♓	
inferior conj	10744 Mar 27 05:12	10°♓44'32	1°57'57	asc. node	10745 Mar 07 12:39	29°♓38'04	
minimum elong	10744 Mar 27 03:04	10°♓51'47	1°57'13	min. Earth dist.	10745 Mar 10 02:43	26°♓33'39	0.67603 AU
morning rise	10744 Apr 01 12:51	4°♓43'26		inferior conj	10745 Mar 11 10:38	24°♓50'59	1°13'56
direct	10744 Apr 05 11:41	3°♓14'36		minimum elong	10745 Mar 11 08:58	24°♓56'19	1°13'25
morning max el	10744 Apr 13 04:46	7°♓35'01	20°11'02	morning rise	10745 Mar 17 00:19	18°♓58'22	
desc. node	10744 Apr 23 09:36	20°♓17'57		direct	10745 Mar 20 11:07	17°♓50'03	
	10744 Apr 30 02:14	0°♔		morning max el	10745 Mar 27 09:58	21°♓38'27	19°10'09
morning set	10744 May 11 00:33	16°♔33'21			10745 Apr 03 07:01	0°♓	
	10744 May 19 14:43	0°♕		greatest brilliancy	10745 Apr 09 11:08	8°♓57'01	-0.7m
max. Earth dist.	10744 May 20 23:32	2°♕10'48	1.44036 AU	desc. node	10745 Apr 10 06:23	10°♓09'20	
superior conj	10744 May 26 19:15	11°♕36'30	-2°09'34	morning set	10745 Apr 20 02:36	25°♓13'56	
minimum elong	10744 May 26 23:06	11°♕52'17	2°09'57		10745 Apr 23 04:31	0°♔	
	10744 Jun 06 17:30	0°♕		max. Earth dist.	10745 May 03 14:52	16°♔16'01	1.45207 AU
evening rise	10744 Jun 08 16:40	3°♕23'20		superior conj	10745 May 06 14:49	20°♔59'44	-2°11'32
asc. node	10744 Jun 16 13:39	16°♕50'48		minimum elong	10745 May 06 11:49	20°♔47'49	2°11'54
	10744 Jun 25 21:54	0°♌			10745 May 12 06:22	0°♕	
evening max el	10744 Jun 26 02:25	0°♌11'16	18°05'38	evening rise	10745 May 21 05:14	14°♕33'53	
retrograde	10744 Jul 02 12:26	3°♌31'44			10745 May 30 16:10	0°♕	
evening set	10744 Jul 05 05:47	2°♌54'23		asc. node	10745 Jun 03 10:43	5°♕47'49	
	10744 Jul 09 06:39	30°♌♕		evening max el	10745 Jun 09 15:48	13°♕40'43	18°22'08
inferior conj	10744 Jul 11 13:01	27°♕43'20	2°21'05				

retrograde	10745 Jun 16 01:37	17°☿06'49		evening set	10746 Jun 03 06:03	29°♄56'56	
evening set	10745 Jun 19 02:49	16°☿15'31			10746 Jun 03 04:08	30°♄11	
inferior conj	10745 Jun 24 22:54	10°☿47'24	2°56'36	inferior conj	10746 Jun 08 18:41	24°♄13'23	3°14'06
minimum elong	10745 Jun 25 00:54	10°☿41'35	2°55'42	minimum elong	10746 Jun 08 19:32	24°♄10'41	3°13'29
min. Earth dist.	10745 Jun 27 06:29	8°☿05'48	0.64429 AU	min. Earth dist.	10746 Jun 10 11:17	22°♄05'06	0.66148 AU
morning rise	10745 Jun 30 21:47	4°☿29'25		morning rise	10746 Jun 14 08:22	17°♄52'16	
desc. node	10745 Jul 07 06:19	1°☿49'19		direct	10746 Jun 20 16:33	15°♄08'24	
direct	10745 Jul 07 12:53	1°☿49'04		desc. node	10746 Jun 24 03:24	15°♄49'32	
morning max el	10745 Jul 21 05:20	9°☿49'19	27°27'36	morning max el	10746 Jul 03 16:05	22°♄52'17	26°30'01
	10745 Aug 06 00:46	0°♊			10746 Jul 09 23:02	0°☿	
	10745 Aug 23 15:35	0°♊			10746 Jul 30 08:03	0°♊	
morning set	10745 Aug 25 10:45	3°♊29'36		morning set	10746 Aug 08 14:20	16°♊29'30	
max. Earth dist.	10745 Aug 30 03:05	12°♊57'20	1.33046 AU	max. Earth dist.	10746 Aug 12 14:45	24°♊13'59	1.34569 AU
asc. node	10745 Aug 30 10:42	13°♊36'52			10746 Aug 15 11:55	0°♊	
				asc. node	10746 Aug 17 07:29	3°♊42'49	
superior conj	10745 Sep 02 14:03	20°♊14'33	0°30'35	superior conj	10746 Aug 17 12:27	4°♊08'25	0°02'02
minimum elong	10745 Sep 02 12:36	20°♊06'52	0°30'09	minimum elong	10746 Aug 17 12:21	4°♊07'54	0°01'43
	10745 Sep 07 02:45	0°♊		behind sun begin	10746 Aug 17 06:30	3°♊37'47	
evening rise	10745 Sep 09 15:38	5°♊26'27		behind sun end	10746 Aug 17 18:11	4°♊38'04	
	10745 Sep 22 17:18	0°♊		evening rise	10746 Aug 25 00:59	19°♊53'14	
evening max el	10745 Oct 01 09:03	10°♊56'20	22°31'21		10746 Aug 30 00:49	0°♊	
desc. node	10745 Oct 03 04:01	12°♊34'32		evening max el	10746 Sep 13 04:20	21°♊21'05	20°58'38
retrograde	10745 Oct 14 09:21	17°♊25'04		desc. node	10746 Sep 20 01:19	26°♊10'36	
evening set	10745 Oct 17 21:48	16°♊57'51		retrograde	10746 Sep 24 20:59	27°♊09'06	
min. Earth dist.	10745 Oct 25 16:23	13°♊29'31	0.54906 AU	evening set	10746 Sep 27 05:00	26°♊56'11	
inferior conj	10745 Oct 26 15:58	12°♊56'06	-5°37'29	inferior conj	10746 Oct 06 08:05	23°♊00'59	-4°35'41
minimum elong	10745 Oct 26 11:07	13°♊02'59	5°36'39	minimum elong	10746 Oct 05 22:15	23°♊14'55	4°32'58
morning rise	10745 Nov 04 02:04	9°♊08'31		min. Earth dist.	10746 Oct 07 00:15	22°♊38'04	0.54619 AU
direct	10745 Nov 07 07:55	8°♊44'38		morning rise	10746 Oct 14 15:43	19°♊06'35	
morning max el	10745 Nov 18 22:55	14°♊14'06	21°13'42	direct	10746 Oct 18 16:11	18°♊31'52	
asc. node	10745 Nov 26 11:13	23°♊25'37		morning max el	10746 Oct 31 15:22	24°♊45'32	22°55'27
	10745 Nov 30 12:07	0°♊			10746 Nov 05 10:36	0°♊	
morning set	10745 Dec 08 20:57	16°♊17'49		asc. node	10746 Nov 13 08:08	11°♊40'35	
	10745 Dec 15 09:44	0°♊			10746 Nov 22 19:44	0°♊	
superior conj	10745 Dec 16 03:54	1°♊34'17	1°31'35	morning set	10746 Nov 23 08:09	1°♊05'37	
minimum elong	10745 Dec 16 05:46	1°♊43'56	1°32'01	superior conj	10746 Nov 30 07:31	16°♊05'14	1°38'38
max. Earth dist.	10745 Dec 20 18:34	10°♊55'17	1.35303 AU	minimum elong	10746 Nov 30 08:12	16°♊08'53	1°39'09
evening rise	10745 Dec 24 20:29	18°♊47'49		max. Earth dist.	10746 Dec 03 11:58	22°♊49'36	1.33652 AU
desc. node	10745 Dec 30 02:26	28°♊19'45			10746 Dec 07 00:11	0°♊	
	10745 Dec 31 01:27	0°♊		evening rise	10746 Dec 08 04:39	2°♊21'17	
	10746 Jan 19 23:20	0°♊		desc. node	10746 Dec 16 23:24	18°♊34'48	
evening max el	10746 Jan 29 04:50	10°♊28'39	26°30'39		10746 Dec 23 23:01	0°♊	
retrograde	10746 Feb 11 04:21	17°♊47'43		evening max el	10747 Jan 11 18:12	24°♊02'24	27°14'10
evening set	10746 Feb 17 12:50	15°♊15'15			10747 Jan 19 18:04	0°♊	
min. Earth dist.	10746 Feb 21 15:24	11°♊02'57	0.66469 AU	retrograde	10747 Jan 25 05:42	1°♊25'40	
asc. node	10746 Feb 22 09:54	10°♊07'40			10747 Jan 30 07:09	30°♊	
inferior conj	10746 Feb 23 11:09	8°♊51'24	0°20'33	evening set	10747 Jan 31 23:33	28°♊52'26	
minimum elong	10746 Feb 23 10:36	8°♊53'03	0°20'35	min. Earth dist.	10747 Feb 04 21:06	25°♊13'05	0.64975 AU
morning rise	10746 Mar 01 09:21	3°♊09'06		inferior conj	10747 Feb 07 04:28	22°♊40'37	-0°41'55
direct	10746 Mar 04 09:29	2°♊18'30		minimum elong	10747 Feb 07 05:43	22°♊37'11	0°41'00
morning max el	10746 Mar 10 21:48	5°♊47'26	18°25'23	asc. node	10747 Feb 09 07:08	20°♊25'44	
	10746 Mar 27 22:02	0°♊		morning rise	10747 Feb 13 13:28	17°♊11'01	
desc. node	10746 Mar 28 03:07	0°♊20'08		direct	10747 Feb 16 04:36	16°♊34'32	
morning set	10746 Mar 31 01:55	5°♊01'02		morning max el	10747 Feb 22 13:56	19°♊55'20	17°57'29
					10747 Mar 02 06:19	0°♊	
superior conj	10746 Apr 15 21:36	29°♊55'38	-1°53'14	morning set	10747 Mar 12 06:28	16°♊15'08	
minimum elong	10746 Apr 15 12:40	29°♊20'44	1°52'47	desc. node	10747 Mar 14 23:50	20°♊44'55	
	10746 Apr 15 22:43	0°♊			10747 Mar 20 15:45	0°♊	
max. Earth dist.	10746 Apr 16 09:27	0°♊41'58	1.45669 AU	superior conj	10747 Mar 26 09:30	9°♊12'10	-1°18'19
evening rise	10746 May 01 17:42	24°♊45'11		minimum elong	10747 Mar 26 01:08	8°♊38'56	1°17'20
	10746 May 05 01:34	0°♊		max. Earth dist.	10747 Mar 30 05:16	15°♊14'38	1.45386 AU
greatest brilliancy	10746 May 11 10:16	9°♊58'18	-0.8m		10747 Apr 08 16:53	0°♊	
asc. node	10746 May 21 07:49	24°♊11'33		evening rise	10747 Apr 11 11:10	4°♊15'17	
evening max el	10746 May 24 02:24	27°♊18'57	18°56'20	greatest brilliancy	10747 Apr 25 16:23	25°♊47'16	-0.6m
retrograde	10746 May 27 09:57	0°☿					
	10746 May 30 20:37	1°☿03'27					

	10747 Apr 28 14:19	0°♂		evening rise	10748 Mar 20 22:43	13°♂39'40	
evening max el	10747 May 07 08:20	11°♂01'13	19°46'49		10748 Mar 31 18:43	0°♂	
asc. node	10747 May 08 04:57	11°♂51'18		evening max el	10748 Apr 19 08:38	24°♂44'57	20°51'15
retrograde	10747 May 14 18:35	15°♂15'27		asc. node	10748 Apr 24 02:09	28°♂33'53	
evening set	10747 May 18 12:53	13°♂53'05		retrograde	10748 Apr 27 17:18	29°♂37'53	
inferior conj	10747 May 23 21:12	7°♂55'24	3°17'04	evening set	10748 May 01 21:19	27°♂59'36	
minimum elong	10747 May 23 20:55	7°♂56'22	3°16'34	inferior conj	10748 May 07 03:59	21°♂49'27	3°08'00
min. Earth dist.	10747 May 24 23:04	6°♂28'53	0.67442 AU	minimum elong	10748 May 07 02:45	21°♂53'45	3°07'27
morning rise	10747 May 29 04:37	1°♂35'22		min. Earth dist.	10748 May 07 15:59	21°♂07'58	0.68274 AU
	10747 May 31 08:30	30°♂♂		morning rise	10748 May 12 07:58	15°♂32'51	
direct	10747 Jun 04 02:15	28°♂58'21		direct	10748 May 17 16:54	13°♂10'34	
	10747 Jun 08 04:11	0°♂		desc. node	10748 May 27 21:22	19°♂01'01	
desc. node	10747 Jun 11 00:25	1°♂42'51		morning max el	10748 May 28 11:38	19°♂36'31	23°43'47
morning max el	10747 Jun 16 01:59	6°♂09'48	25°12'03		10748 Jun 06 07:16	0°♂	
	10747 Jul 04 12:46	0°♂			10748 Jun 26 16:33	0°♂	
morning set	10747 Jul 22 02:04	28°♂43'01		morning set	10748 Jul 02 17:05	9°♂58'21	
	10747 Jul 22 19:11	0°♂		max. Earth dist.	10748 Jul 06 13:54	16°♂39'55	1.38787 AU
max. Earth dist.	10747 Jul 25 16:38	5°♂18'19	1.36538 AU		10748 Jul 13 21:41	0°♂	
superior conj	10747 Aug 01 01:19	17°♂31'43	-0°29'55	superior conj	10748 Jul 14 01:07	0°♂16'07	-1°03'21
minimum elong	10747 Aug 01 03:13	17°♂41'07	0°29'59	minimum elong	10748 Jul 14 05:24	0°♂36'16	1°03'10
asc. node	10747 Aug 04 04:18	23°♂46'35		asc. node	10748 Jul 21 01:09	13°♂44'32	
	10747 Aug 07 05:53	0°♂		evening rise	10748 Jul 23 04:27	17°♂55'07	
evening rise	10747 Aug 09 06:08	4°♂05'02			10748 Jul 29 13:23	0°♂	
	10747 Aug 24 07:31	0°♂		evening max el	10748 Aug 08 10:23	14°♂18'54	18°50'03
evening max el	10747 Aug 26 12:58	2°♂26'58	19°43'46	retrograde	10748 Aug 16 21:07	18°♂32'01	
retrograde	10747 Sep 05 13:03	7°♂25'05		evening set	10748 Aug 18 19:18	18°♂19'42	
desc. node	10747 Sep 06 22:37	7°♂19'39		desc. node	10748 Aug 23 19:54	16°♂08'15	
evening set	10747 Sep 07 09:52	7°♂15'28		inferior conj	10748 Aug 26 23:19	13°♂59'45	-0°58'40
inferior conj	10747 Sep 16 06:41	3°♂12'54	-2°51'49	minimum elong	10748 Aug 26 20:51	14°♂04'11	0°57'54
minimum elong	10747 Sep 15 23:04	3°♂24'43	2°49'04	min. Earth dist.	10748 Aug 30 00:58	11°♂47'52	0.56766 AU
min. Earth dist.	10747 Sep 18 10:20	1°♂52'54	0.55281 AU	morning rise	10748 Sep 03 19:07	9°♂01'51	
	10747 Sep 21 18:45	30°♂♂		direct	10748 Sep 09 09:51	7°♂46'02	
morning rise	10747 Sep 24 10:26	28°♂52'19		morning max el	10748 Sep 23 16:11	15°♂09'07	26°18'03
direct	10747 Sep 29 06:29	28°♂00'45			10748 Oct 05 15:02	0°♂	
	10747 Oct 06 13:33	0°♂		asc. node	10748 Oct 17 01:50	19°♂51'35	
morning max el	10747 Oct 13 02:29	4°♂52'55	24°42'42	morning set	10748 Oct 22 06:39	0°♂32'27	
	10747 Oct 30 22:00	0°♂			10748 Oct 22 00:34	0°♂	
asc. node	10747 Oct 31 05:00	0°♂32'23					
morning set	10747 Nov 07 19:56	15°♂52'02		superior conj	10748 Oct 29 02:58	15°♂34'23	1°33'51
	10747 Nov 14 07:17	0°♂		minimum elong	10748 Oct 29 01:32	15°♂26'29	1°34'06
				max. Earth dist.	10748 Oct 29 20:27	17°♂11'25	1.31691 AU
superior conj	10747 Nov 14 15:55	0°♂47'22	1°39'13		10748 Nov 04 17:51	0°♂	
minimum elong	10747 Nov 14 15:27	0°♂44'46	1°39'41	evening rise	10748 Nov 05 01:22	0°♂39'36	
max. Earth dist.	10747 Nov 16 13:22	4°♂55'15	1.32438 AU	desc. node	10748 Nov 19 17:34	27°♂56'30	
evening rise	10747 Nov 21 23:14	16°♂21'03			10748 Nov 21 00:48	0°♂	
	10747 Nov 29 00:13	0°♂		evening max el	10748 Dec 06 13:12	19°♂41'55	27°16'05
desc. node	10747 Dec 03 20:28	8°♂29'51		retrograde	10748 Dec 20 10:29	26°♂55'24	
	10747 Dec 18 15:24	0°♂		evening set	10748 Dec 27 09:58	24°♂43'58	
evening max el	10747 Dec 25 05:51	7°♂11'19	27°31'09	min. Earth dist.	10748 Dec 31 03:41	21°♂57'44	0.61127 AU
retrograde	10748 Jan 07 23:59	14°♂31'17		inferior conj	10749 Jan 03 05:54	19°♂15'55	-3°08'00
evening set	10748 Jan 14 23:40	12°♂04'36		minimum elong	10749 Jan 03 12:14	19°♂02'05	3°05'10
min. Earth dist.	10748 Jan 18 17:41	8°♂55'10	0.63166 AU	morning rise	10749 Jan 10 17:08	14°♂21'20	
inferior conj	10748 Jan 21 11:48	6°♂11'42	-1°52'24	direct	10749 Jan 12 20:59	14°♂02'01	
minimum elong	10748 Jan 21 15:29	6°♂02'35	1°50'25	asc. node	10749 Jan 13 01:29	14°♂02'10	
asc. node	10748 Jan 27 04:19	1°♂31'00		morning max el	10749 Jan 19 23:20	17°♂36'08	17°54'43
morning rise	10748 Jan 28 09:28	0°♂57'55			10749 Jan 28 19:32	0°♂	
direct	10748 Jan 30 17:40	0°♂31'49		morning set	10749 Feb 04 14:26	12°♂06'24	
morning max el	10748 Feb 06 07:32	3°♂54'29	17°47'01		10749 Feb 14 13:52	0°♂	
morning set	10748 Feb 22 12:49	28°♂43'49					
	10748 Feb 23 06:22	0°♂		superior conj	10749 Feb 15 02:42	0°♂55'49	0°04'40
desc. node	10748 Feb 29 20:34	11°♂19'18		minimum elong	10749 Feb 15 03:08	0°♂57'40	0°04'55
				behind sun begin	10749 Feb 14 19:14	0°♂23'21	
superior conj	10748 Mar 05 17:36	19°♂28'29	-0°36'07	behind sun end	10749 Feb 15 11:02	1°♂31'54	
minimum elong	10748 Mar 05 13:51	19°♂13'00	0°35'25	desc. node	10749 Feb 15 17:18	1°♂59'00	
max. Earth dist.	10748 Mar 11 23:41	29°♂37'32	1.44390 AU	max. Earth dist.	10749 Feb 22 14:02	13°♂32'52	1.42791 AU
	10748 Mar 12 05:19	0°♂		evening rise	10749 Feb 28 19:21	23°♂33'38	

	10749 Mar 04 22:36	0°♿		desc. node	10750 Feb 02 14:06	22°≈40'50	
	10749 Mar 25 21:01	0°♿		max. Earth dist.	10750 Feb 04 23:17	26°≈48'18	1.40778 AU
evening max el	10749 Apr 02 03:36	8°♿29'11	22°06'07		10750 Feb 06 20:27	0°♿	
asc. node	10749 Apr 10 23:24	14°♿03'07		evening rise	10750 Feb 09 11:00	4°♿20'14	
retrograde	10749 Apr 11 14:58	14°♿05'10			10750 Feb 26 04:10	0°♿	
evening set	10749 Apr 16 05:36	12°♿11'33		evening max el	10750 Mar 15 18:51	22°♿15'48	23°26'16
inferior conj	10749 Apr 21 12:52	5°♿51'16	2°48'25	retrograde	10750 Mar 26 10:05	28°♿32'34	
minimum elong	10749 Apr 21 10:58	5°♿57'53	2°47'44	asc. node	10750 Mar 28 20:40	28°♿04'11	
min. Earth dist.	10749 Apr 21 11:57	5°♿54'27	0.68643 AU	evening set	10750 Mar 31 12:11	26°♿24'52	
	10749 Apr 26 07:03	30°♿♿		inferior conj	10750 Apr 05 21:53	19°♿57'41	2°19'07
morning rise	10749 Apr 26 16:10	29°♿39'34		minimum elong	10750 Apr 05 19:42	20°♿05'12	2°18'22
direct	10749 May 01 11:36	27°♿36'48		min. Earth dist.	10750 Apr 05 08:47	20°♿42'47	0.68571 AU
	10749 May 07 08:34	0°♿		morning rise	10750 Apr 11 03:11	13°♿52'07	
morning max el	10749 May 10 23:24	3°♿11'11	22°14'41	direct	10750 Apr 15 09:18	12°♿10'52	
desc. node	10749 May 14 18:16	7°♿20'34		morning max el	10750 Apr 23 16:28	16°♿56'04	20°52'39
	10749 May 31 08:15	0°♿		desc. node	10750 May 01 15:06	26°♿24'45	
morning set	10749 Jun 13 06:45	20°♿04'09			10750 May 04 06:22	0°♿	
max. Earth dist.	10749 Jun 18 12:54	28°♿44'07	1.41057 AU	morning set	10750 May 23 18:59	29°♿02'10	
	10749 Jun 19 06:55	0°♿			10750 May 24 09:47	0°♿	
				max. Earth dist.	10750 May 31 17:44	11°♿40'23	1.43079 AU
superior conj	10749 Jun 26 07:30	12°♿11'17	-1°35'09				
minimum elong	10749 Jun 26 13:42	12°♿38'58	1°34'57	superior conj	10750 Jun 07 15:58	23°♿07'43	-2°00'27
	10749 Jul 06 00:33	0°♿		minimum elong	10750 Jun 07 21:53	23°♿32'40	2°00'36
evening rise	10749 Jul 06 16:27	1°♿14'17			10750 Jun 11 16:35	0°♿	
asc. node	10749 Jul 07 22:05	3°♿32'27		evening rise	10750 Jun 19 13:46	13°♿51'34	
evening max el	10749 Jul 22 17:11	26°♿50'41	18°17'21	asc. node	10750 Jun 24 19:04	23°♿05'27	
	10749 Jul 27 06:23	0°♿			10750 Jun 28 21:25	0°♿	
retrograde	10749 Jul 30 00:17	0°♿31'29		evening max el	10750 Jul 06 05:23	9°♿52'24	18°04'31
evening set	10749 Aug 01 05:05	0°♿12'07		retrograde	10750 Jul 12 20:00	13°♿15'50	
	10749 Aug 01 19:57	30°♿♿		evening set	10750 Jul 15 08:45	12°♿45'51	
inferior conj	10749 Aug 08 13:48	25°♿31'57	0°38'35	inferior conj	10750 Jul 22 00:15	7°♿45'52	1°50'46
minimum elong	10749 Aug 08 15:05	25°♿29'14	0°37'44	minimum elong	10750 Jul 22 02:57	7°♿39'16	1°49'27
desc. node	10749 Aug 10 17:10	23°♿43'08		min. Earth dist.	10750 Jul 25 03:55	4°♿42'51	0.61073 AU
min. Earth dist.	10749 Aug 11 22:21	22°♿43'16	0.58803 AU	morning rise	10750 Jul 28 18:31	1°♿47'42	
morning rise	10749 Aug 15 21:38	19°♿58'56		desc. node	10750 Jul 28 14:26	1°♿54'36	
direct	10749 Aug 22 03:38	18°♿13'42			10750 Aug 01 11:38	30°♿♿	
morning max el	10749 Sep 05 12:40	25°♿59'35	27°25'25	direct	10750 Aug 04 09:39	29°♿34'28	
	10749 Sep 09 06:54	0°♿			10750 Aug 07 09:59	0°♿	
	10749 Sep 29 01:31	0°♿		morning max el	10750 Aug 18 15:51	7°♿33'40	27°55'44
asc. node	10749 Oct 03 22:39	9°♿30'48			10750 Sep 04 17:58	0°♿	
morning set	10749 Oct 06 14:38	15°♿02'18		morning set	10750 Sep 20 17:52	29°♿15'14	
max. Earth dist.	10749 Oct 13 05:49	29°♿30'51	1.31425 AU	asc. node	10750 Sep 20 19:26	29°♿23'17	
	10749 Oct 13 11:03	0°♿			10750 Sep 21 02:31	0°♿	
				max. Earth dist.	10750 Sep 26 13:36	11°♿42'19	1.31657 AU
superior conj	10749 Oct 13 14:46	0°♿20'38	1°22'52				
minimum elong	10749 Oct 13 12:43	0°♿09'15	1°22'52	superior conj	10750 Sep 28 01:25	14°♿59'31	1°06'33
evening rise	10749 Oct 20 08:40	15°♿10'42		minimum elong	10750 Sep 27 23:10	14°♿47'09	1°06'17
	10749 Oct 27 16:52	0°♿		evening rise	10750 Oct 04 18:59	29°♿47'26	
desc. node	10749 Nov 06 14:44	16°♿43'40			10750 Oct 04 21:20	0°♿	
	10749 Nov 17 03:25	0°♿			10750 Oct 21 04:59	0°♿	
evening max el	10749 Nov 18 13:43	1°♿24'13	26°26'53	desc. node	10750 Oct 24 11:58	4°♿34'54	
retrograde	10749 Dec 02 12:06	8°♿30'33		evening max el	10750 Oct 31 06:05	12°♿15'11	25°07'20
evening set	10749 Dec 09 02:19	6°♿44'05		retrograde	10750 Nov 14 02:37	19°♿12'48	
min. Earth dist.	10749 Dec 13 03:16	4°♿08'45	0.59004 AU	evening set	10750 Nov 19 19:55	17°♿58'49	
inferior conj	10749 Dec 16 07:17	1°♿44'18	-4°21'59	min. Earth dist.	10750 Nov 24 18:05	15°♿17'14	0.57025 AU
minimum elong	10749 Dec 16 15:18	1°♿29'01	4°19'11	inferior conj	10750 Nov 27 12:50	13°♿26'51	-5°21'34
	10749 Dec 18 15:53	30°♿♿		minimum elong	10750 Nov 27 19:20	13°♿16'04	5°20'00
morning rise	10749 Dec 24 06:59	27°♿11'29		morning rise	10750 Dec 05 21:02	9°♿16'07	
direct	10749 Dec 26 10:16	26°♿55'35		direct	10750 Dec 08 05:33	9°♿00'05	
asc. node	10749 Dec 30 22:37	28°♿10'47		morning max el	10750 Dec 17 10:44	13°♿25'49	19°10'48
	10750 Jan 02 11:44	0°♿		asc. node	10750 Dec 17 19:41	13°♿47'45	
morning max el	10750 Jan 03 09:45	0°♿50'43	18°22'00		10750 Dec 28 19:34	0°♿	
morning set	10750 Jan 19 05:40	26°♿06'25		morning set	10751 Jan 03 06:09	10°♿30'24	
	10750 Jan 21 06:35	0°♿					
				superior conj	10751 Jan 11 11:44	26°♿46'15	1°05'46
superior conj	10750 Jan 28 10:23	13°≈26'37	0°39'10	minimum elong	10751 Jan 11 14:47	27°♿01'01	1°05'53
minimum elong	10750 Jan 28 12:59	13°≈38'34	0°39'13		10751 Jan 13 04:10	0°≈	

max. Earth dist.	10751 Jan 18 05:25	9° \approx 21'57	1.38579 AU	max. Earth dist.	10751 Dec 31 12:54	21° \approx 26'14	1.36436 AU
desc. node	10751 Jan 20 10:56	13° \approx 20'34		evening rise	10752 Jan 04 08:50	28° \approx 36'14	
evening rise	10751 Jan 22 00:10	16° \approx 03'08			10752 Jan 05 03:16	0° \approx	
	10751 Jan 30 10:17	0° \approx		desc. node	10752 Jan 07 07:49	3° \approx 54'30	
	10751 Feb 20 18:59	0° \approx			10752 Jan 23 17:39	0° \approx	
evening max el	10751 Feb 26 08:31	6° \approx 05'34	24°45'24	evening max el	10752 Feb 08 22:00	19° \approx 55'19	25°56'22
retrograde	10751 Mar 10 01:19	12° \approx 05'49		retrograde	10752 Feb 21 11:40	27° \approx 05'59	
evening set	10751 Mar 15 15:29	10° \approx 03'45		evening set	10752 Feb 27 13:50	24° \approx 36'55	
asc. node	10751 Mar 15 17:57	10° \approx 02'39		asc. node	10752 Mar 01 15:13	21° \approx 31'16	
min. Earth dist.	10751 Mar 20 04:11	5° \approx 02'00	0.68073 AU	min. Earth dist.	10752 Mar 02 19:53	20° \approx 04'56	0.67171 AU
inferior conj	10751 Mar 21 05:10	4° \approx 05'06	1°40'27	inferior conj	10752 Mar 04 08:46	18° \approx 09'26	0°52'25
minimum elong	10751 Mar 21 03:10	4° \approx 01'46	1°39'46	minimum elong	10752 Mar 04 07:30	18° \approx 13'25	0°52'06
	10751 Mar 24 12:45	30° \approx 00'00		morning rise	10752 Mar 10 01:45	12° \approx 20'52	
morning rise	10751 Mar 26 15:03	28° \approx 07'08		direct	10752 Mar 13 07:56	11° \approx 20'18	
direct	10751 Mar 30 08:38	26° \approx 47'10		morning max el	10752 Mar 20 01:10	14° \approx 58'37	18°49'03
	10751 Apr 05 18:45	0° \approx			10752 Mar 31 09:51	0° \approx	
morning max el	10751 Apr 06 17:00	0° \approx 52'35	19°43'10	desc. node	10752 Apr 04 08:38	6° \approx 01'47	
desc. node	10751 Apr 18 11:53	16° \approx 01'28		morning set	10752 Apr 11 03:10	16° \approx 33'04	
greatest brilliancy	10751 Apr 19 11:43	17° \approx 02'15	-0.6m		10752 Apr 19 18:08	0° \approx	
	10751 Apr 27 20:33	0° \approx		max. Earth dist.	10752 Apr 25 23:16	9° \approx 42'43	1.45496 AU
morning set	10751 May 02 18:05	7° \approx 29'36					
max. Earth dist.	10751 May 14 05:44	25° \approx 24'50	1.44613 AU	superior conj	10752 Apr 27 12:23	12° \approx 08'13	-2°06'14
	10751 May 17 02:49	0° \approx		minimum elong	10752 Apr 27 06:16	11° \approx 44'13	2°06'17
					10752 May 08 18:58	0° \approx	
superior conj	10751 May 19 00:13	3° \approx 02'16	-2°12'47	evening rise	10752 May 12 17:39	6° \approx 02'20	
minimum elong	10751 May 19 01:31	3° \approx 07'32	2°13'16		10752 May 27 19:29	0° \approx	
evening rise	10751 Jun 01 15:28	25° \approx 03'59		asc. node	10752 May 28 13:11	1° \approx 01'47	
	10751 Jun 04 05:54	0° \approx		evening max el	10752 Jun 02 07:49	6° \approx 48'33	18°34'37
asc. node	10751 Jun 11 16:06	12° \approx 17'52		retrograde	10752 Jun 08 20:01	10° \approx 20'44	
evening max el	10751 Jun 19 19:19	23° \approx 14'41	18°10'32	evening set	10752 Jun 12 00:46	9° \approx 22'52	
retrograde	10751 Jun 26 03:58	26° \approx 35'33		inferior conj	10752 Jun 17 17:14	3° \approx 47'52	3°05'58
evening set	10751 Jun 29 00:44	25° \approx 52'23		minimum elong	10752 Jun 17 18:46	3° \approx 43'13	3°05'13
inferior conj	10751 Jul 05 02:46	20° \approx 34'03	2°38'33	min. Earth dist.	10752 Jun 19 18:23	1° \approx 19'23	0.65209 AU
minimum elong	10751 Jul 05 05:16	20° \approx 27'10	2°37'27		10752 Jun 20 22:04	30° \approx 00'00	
min. Earth dist.	10751 Jul 07 18:36	17° \approx 39'27	0.63277 AU	morning rise	10752 Jun 23 11:53	27° \approx 02'06	
morning rise	10751 Jul 11 08:10	14° \approx 21'08		direct	10752 Jun 30 00:35	24° \approx 05'13	
desc. node	10751 Jul 15 11:36	12° \approx 09'34		desc. node	10752 Jul 01 08:44	24° \approx 05'12	
direct	10751 Jul 18 01:11	11° \approx 47'45			10752 Jul 10 14:59	0° \approx	
morning max el	10751 Jul 31 23:57	19° \approx 50'09	27°47'52	morning max el	10752 Jul 13 10:30	2° \approx 39'33	27°06'18
	10751 Aug 09 16:14	0° \approx			10752 Aug 02 23:01	0° \approx	
	10751 Aug 28 18:04	0° \approx		morning set	10752 Aug 18 00:51	26° \approx 02'19	
morning set	10751 Sep 04 14:13	13° \approx 05'53			10752 Aug 19 20:37	0° \approx	
asc. node	10751 Sep 07 16:13	19° \approx 04'30		max. Earth dist.	10752 Aug 22 10:09	5° \approx 08'22	1.33640 AU
max. Earth dist.	10751 Sep 09 16:13	23° \approx 03'19	1.32397 AU	asc. node	10752 Aug 24 13:00	9° \approx 02'37	
superior conj	10751 Sep 12 09:04	29° \approx 02'52	0°45'08	superior conj	10752 Aug 26 11:30	13° \approx 02'58	0°18'59
minimum elong	10751 Sep 12 07:09	29° \approx 01'53	0°44'43	minimum elong	10752 Aug 26 10:33	13° \approx 02'56	0°18'34
	10751 Sep 12 15:21	0° \approx		evening rise	10752 Sep 02 17:08	28° \approx 05'02	
evening rise	10751 Sep 19 06:28	14° \approx 24'56			10752 Sep 03 05:05	0° \approx	
	10751 Sep 26 23:48	0° \approx			10752 Sep 20 19:19	0° \approx	
desc. node	10751 Oct 11 09:13	21° \approx 09'02		evening max el	10752 Sep 23 06:25	2° \approx 38'34	21°50'06
evening max el	10751 Oct 12 17:01	22° \approx 29'15	23°29'16	desc. node	10752 Sep 27 06:30	5° \approx 05'35	
retrograde	10751 Oct 26 04:03	29° \approx 01'11		retrograde	10752 Oct 05 18:38	8° \approx 01'56	
evening set	10751 Oct 30 13:18	28° \approx 30'03		evening set	10752 Oct 08 17:30	8° \approx 32'19	
min. Earth dist.	10751 Nov 06 02:59	25° \approx 02'52	0.55488 AU	inferior conj	10752 Oct 17 17:04	4° \approx 34'47	-5°18'00
inferior conj	10751 Nov 07 22:13	24° \approx 02'16	-5°46'41	minimum elong	10752 Oct 17 09:15	4° \approx 45'43	5°16'24
minimum elong	10751 Nov 07 22:14	24° \approx 02'15	5°46'14	min. Earth dist.	10752 Oct 17 09:54	4° \approx 44'48	0.54675 AU
morning rise	10751 Nov 16 08:59	20° \approx 02'34		morning rise	10752 Oct 26 02:17	0° \approx 47'18	
direct	10751 Nov 19 05:46	20° \approx 07'30		direct	10752 Oct 29 16:00	0° \approx 19'24	
morning max el	10751 Nov 29 22:52	25° \approx 01'47	20°22'29	morning max el	10752 Nov 10 21:29	6° \approx 07'08	21°55'24
	10751 Dec 04 05:09	0° \approx		asc. node	10752 Nov 20 13:35	18° \approx 02'04	
asc. node	10751 Dec 04 16:40	0° \approx 38'03			10752 Nov 27 01:31	0° \approx	
morning set	10751 Dec 18 12:39	25° \approx 09'11		morning set	10752 Dec 01 22:43	9° \approx 55'44	
	10751 Dec 20 21:05	0° \approx					
				superior conj	10752 Dec 09 01:52	25° \approx 03'00	1°35'24
superior conj	10751 Dec 26 02:10	10° \approx 34'57	1°24'20	minimum elong	10752 Dec 09 03:14	25° \approx 01'04	1°35'53
minimum elong	10751 Dec 26 04:37	10° \approx 35'42	1°24'39		10752 Dec 11 10:54	0° \approx	

max. Earth dist.	10752 Dec 13 01:57	3° Z 19'35	1.34553 AU	morning set	10753 Nov 16 10:22	24° M 43'48	
evening rise	10752 Dec 17 09:28	11° Z 50'23			10753 Nov 18 21:08	0° X	
desc. node	10752 Dec 24 04:45	24° Z 18'15					
	10752 Dec 27 13:00	0° \approx		superior conj	10753 Nov 23 07:48	9° Z 39'57	1°39'38
	10753 Jan 17 23:23	0° X		minimum elong	10753 Nov 23 07:59	9° Z 40'54	1°40'09
evening max el	10753 Jan 21 11:29	3° X 37'45	26°51'54	max. Earth dist.	10753 Nov 25 22:45	15° Z 17'45	1.33072 AU
retrograde	10753 Feb 03 16:28	10° X 59'22		evening rise	10753 Nov 30 22:24	25° Z 35'59	
evening set	10753 Feb 10 05:27	8° X 25'36			10753 Dec 03 03:58	0° Z	
min. Earth dist.	10753 Feb 14 05:43	4° X 27'50	0.65881 AU	desc. node	10753 Dec 11 01:45	14° Z 25'49	
inferior conj	10753 Feb 16 06:32	2° X 06'18	-0°04'51		10753 Dec 20 23:20	0° \approx	
minimum elong	10753 Feb 16 06:39	2° X 05'56	0°04'29	evening max el	10754 Jan 04 00:08	17° \approx 01'55	27°24'55
transit middle	10753 Feb 16 06:39	2° X 05'56	0°04'29	retrograde	10754 Jan 17 15:05	24° \approx 25'14	
transit begin	10753 Feb 16 03:49	2° X 14'12		evening set	10754 Jan 24 12:02	21° \approx 53'25	
transit end	10753 Feb 16 09:29	1° X 57'41		min. Earth dist.	10754 Jan 28 07:39	18° \approx 27'37	0.64240 AU
asc. node	10753 Feb 16 12:26	1° X 49'10		inferior conj	10754 Jan 30 19:57	15° \approx 48'44	-1°10'56
	10753 Feb 18 03:18	30° R \approx		minimum elong	10754 Jan 30 22:09	15° \approx 42'54	1°09'34
morning rise	10753 Feb 22 09:04	26° \approx 29'18		asc. node	10754 Feb 03 09:39	12° \approx 20'52	
direct	10753 Feb 25 05:13	25° \approx 45'06		morning rise	10754 Feb 06 10:11	10° \approx 25'49	
morning max el	10753 Mar 03 15:14	29° \approx 08'54	18°11'29	direct	10754 Feb 08 22:02	9° \approx 54'19	
	10753 Mar 04 11:11	0° X		morning max el	10754 Feb 15 08:27	13° \approx 14'45	17°50'54
desc. node	10753 Mar 22 05:21	26° X 19'32			10754 Feb 27 01:59	0° X	
morning set	10753 Mar 22 14:55	26° X 58'06		morning set	10754 Mar 04 07:08	8° X 46'09	
	10753 Mar 24 12:03	0° Y		desc. node	10754 Mar 09 02:03	16° X 48'56	
					10754 Mar 17 02:48	0° Y	
superior conj	10753 Apr 06 19:03	21° Y 07'08	-1°39'57				
minimum elong	10753 Apr 06 09:33	20° Y 29'51	1°39'12	superior conj	10754 Mar 17 14:20	0° Y 46'32	-1°00'43
max. Earth dist.	10753 Apr 08 19:09	24° Y 15'32	1.45641 AU	minimum elong	10754 Mar 17 07:45	0° Y 19'59	0°59'48
	10753 Apr 12 11:23	0° Z		max. Earth dist.	10754 Mar 22 14:19	8° Y 44'51	1.45043 AU
evening rise	10753 Apr 22 21:01	16° Z 11'36		evening rise	10754 Apr 02 10:01	25° Y 34'11	
	10753 May 01 18:52	0° II			10754 Apr 05 07:35	0° Z	
greatest brilliancy	10753 May 04 15:39	4° II 22'04	-0.7m	greatest brilliancy	10754 Apr 17 05:14	17° Z 48'14	-0.6m
asc. node	10753 May 15 10:18	19° II 08'20			10754 Apr 26 03:14	0° II	
evening max el	10753 May 16 16:32	20° II 28'37	19°15'50	evening max el	10754 Apr 29 20:01	4° II 11'23	20°12'39
retrograde	10753 May 23 16:43	24° II 24'44		asc. node	10754 May 02 07:29	6° II 25'38	
evening set	10753 May 27 05:49	23° II 11'25		retrograde	10754 May 07 15:21	8° II 41'42	
inferior conj	10753 Jun 01 16:14	17° II 21'23	3°16'58	evening set	10754 May 11 13:33	7° II 12'42	
minimum elong	10753 Jun 01 16:35	17° II 20'13	3°16'25	inferior conj	10754 May 16 20:53	1° II 09'22	3°14'36
min. Earth dist.	10753 Jun 03 02:23	15° II 30'23	0.66753 AU	minimum elong	10754 May 16 20:10	1° II 11'50	3°14'05
morning rise	10753 Jun 07 02:53	11° II 00'13		min. Earth dist.	10754 May 17 16:46	0° II 01'41	0.67850 AU
direct	10753 Jun 13 06:46	8° II 18'24			10754 May 17 17:15	30° R Z	
desc. node	10753 Jun 18 05:48	9° II 43'12		morning rise	10754 May 22 02:28	24° Z 50'17	
morning max el	10753 Jun 25 21:12	15° II 50'30	25°58'47	direct	10754 May 27 18:48	22° Z 18'41	
	10753 Jul 07 13:19	0° Z		desc. node	10754 Jun 05 02:47	26° Z 15'45	
	10753 Jul 26 19:54	0° Q		morning max el	10754 Jun 08 06:57	29° Z 12'56	24°35'06
morning set	10753 Jul 31 22:13	9° Q 07'40			10754 Jun 09 01:12	0° II	
max. Earth dist.	10753 Aug 04 17:33	16° Q 17'51	1.35360 AU		10754 Jul 01 08:21	0° Z	
				morning set	10754 Jul 14 01:50	20° Z 58'35	
superior conj	10753 Aug 10 06:11	27° Q 14'11	-0°11'13	max. Earth dist.	10754 Jul 17 16:23	27° Z 24'36	1.37467 AU
minimum elong	10753 Aug 10 06:52	27° Q 17'37	0°11'26		10754 Jul 19 02:22	0° Q	
behind sun begin	10753 Aug 10 02:32	26° Q 55'42					
behind sun end	10753 Aug 10 11:11	27° Q 39'34		superior conj	10754 Jul 24 14:00	10° Q 22'12	-0°44'05
asc. node	10753 Aug 11 09:48	29° Q 34'54		minimum elong	10754 Jul 24 16:53	10° Q 36'13	0°44'01
	10753 Aug 11 14:42	0° P		asc. node	10754 Jul 29 06:39	19° Q 36'51	
evening rise	10753 Aug 18 00:58	13° P 18'00		evening rise	10754 Aug 02 03:37	27° Q 21'37	
	10753 Aug 26 16:12	0° Z			10754 Aug 03 11:28	0° P	
evening max el	10753 Sep 05 06:54	13° Z 18'11	20°24'15	evening max el	10754 Aug 18 21:22	24° P 44'40	19°18'23
desc. node	10753 Sep 14 03:49	18° Z 34'01		retrograde	10754 Aug 28 04:52	29° P 22'24	
retrograde	10753 Sep 16 06:58	18° Z 45'58		evening set	10754 Aug 30 01:01	29° P 12'20	
evening set	10753 Sep 18 07:58	18° Z 35'29		desc. node	10754 Sep 01 01:08	28° P 39'59	
inferior conj	10753 Sep 27 10:08	14° Z 38'25	-3°54'58	inferior conj	10754 Sep 07 15:31	25° P 03'35	-2°03'09
minimum elong	10753 Sep 27 00:30	14° Z 52'29	3°51'52	minimum elong	10754 Sep 07 10:04	25° P 12'34	2°01'09
min. Earth dist.	10753 Sep 28 18:26	13° Z 51'12	0.54780 AU	min. Earth dist.	10754 Sep 10 06:37	23° P 19'59	0.55816 AU
morning rise	10753 Oct 05 16:25	10° Z 34'55		morning rise	10754 Sep 15 16:23	20° P 27'19	
direct	10753 Oct 10 00:50	9° Z 54'11		direct	10754 Sep 20 20:35	19° P 26'07	
morning max el	10753 Oct 23 10:49	16° Z 25'15	23°41'31	morning max el	10754 Oct 04 22:22	26° P 33'30	25°25'48
	10753 Nov 03 06:19	0° M			10754 Oct 08 05:46	0° Z	
asc. node	10753 Nov 07 10:29	6° M 57'58		asc. node	10754 Oct 25 07:20	26° Z 02'43	

	10754 Oct 27 08:02	0°♌		direct	10755 Sep 02 06:37	29°♏27'16	
morning set	10754 Oct 31 21:55	9°♌28'38			10755 Sep 05 22:00	0°♐	
				morning max el	10755 Sep 16 14:24	7°♐00'51	26°50'50
superior conj	10754 Nov 07 17:37	24°♌25'38	1°37'38		10755 Oct 03 17:41	0°♑	
minimum elong	10754 Nov 07 16:43	24°♌20'37	1°38'03	asc. node	10755 Oct 12 04:09	15°♑30'59	
max. Earth dist.	10754 Nov 09 02:45	27°♌27'59	1.32056 AU	morning set	10755 Oct 16 07:40	24°♑04'38	
	10754 Nov 10 06:34	0°♒			10755 Oct 19 01:25	0°♌	
evening rise	10754 Nov 14 20:33	9°♒45'14					
	10754 Nov 25 11:42	0°♓		superior conj	10755 Oct 23 05:12	9°♌12'44	1°29'51
desc. node	10754 Nov 27 22:51	4°♓10'19		minimum elong	10755 Oct 23 03:28	9°♌03'05	1°30'01
	10754 Dec 17 11:47	0°♊		max. Earth dist.	10755 Oct 23 11:10	9°♌45'59	1.31519 AU
evening max el	10754 Dec 17 10:15	29°♓56'23	27°28'54	evening rise	10755 Oct 30 01:09	24°♌09'49	
retrograde	10754 Dec 31 06:28	7°♊14'29			10755 Nov 01 20:34	0°♒	
evening set	10755 Jan 07 06:46	4°♊53'10		desc. node	10755 Nov 14 20:01	23°♒21'39	
min. Earth dist.	10755 Jan 11 00:03	1°♊54'30	0.62319 AU		10755 Nov 19 07:56	0°♓	
	10755 Jan 13 00:58	30°♒♓		evening max el	10755 Nov 29 15:13	12°♓08'05	26°59'23
inferior conj	10755 Jan 13 22:05	29°♓09'49	-2°24'07	retrograde	10755 Dec 13 13:18	19°♓17'58	
minimum elong	10755 Jan 14 02:54	28°♓58'28	2°21'43	evening set	10755 Dec 20 09:57	17°♓16'29	
morning rise	10755 Jan 21 01:31	24°♓03'46		min. Earth dist.	10755 Dec 24 05:43	14°♓36'24	0.60222 AU
asc. node	10755 Jan 21 06:50	23°♓59'35		inferior conj	10755 Dec 27 09:31	12°♓00'13	-3°40'10
direct	10755 Jan 23 07:20	23°♓41'07		minimum elong	10755 Dec 27 16:47	11°♓45'12	3°37'12
morning max el	10755 Jan 30 01:43	27°♓07'51	17°47'54	morning rise	10756 Jan 04 02:18	7°♓14'16	
	10755 Feb 01 14:44	0°♊		direct	10756 Jan 06 05:22	6°♓56'47	
morning set	10755 Feb 14 22:26	21°♊40'01		asc. node	10756 Jan 08 03:58	7°♓11'57	
	10755 Feb 19 15:45	0°♈		morning max el	10756 Jan 13 15:37	10°♓38'55	18°03'46
desc. node	10755 Feb 23 22:47	7°♈25'58			10756 Jan 26 09:07	0°♊	
				morning set	10756 Jan 29 06:31	5°♊20'51	
superior conj	10755 Feb 26 09:00	11°♈32'59	-0°18'18				
minimum elong	10755 Feb 26 07:14	11°♈25'32	0°17'47	superior conj	10756 Feb 08 04:13	23°♊28'46	0°20'13
max. Earth dist.	10755 Mar 05 06:40	22°♈55'50	1.43777 AU	minimum elong	10756 Feb 08 05:49	23°♊35'54	0°20'21
	10755 Mar 09 17:04	0°♐		desc. node	10756 Feb 10 19:34	28°♊07'09	
evening rise	10755 Mar 12 23:41	5°♐07'06			10756 Feb 11 21:38	0°♈	
	10755 Mar 29 16:24	0°♄		max. Earth dist.	10756 Feb 15 19:06	6°♈36'30	1.41979 AU
evening max el	10755 Apr 12 17:58	17°♄55'29	21°22'11	evening rise	10756 Feb 21 03:45	15°♈22'40	
asc. node	10755 Apr 19 04:43	22°♄39'03			10756 Mar 01 14:07	0°♐	
retrograde	10755 Apr 21 13:46	23°♄06'35			10756 Mar 23 20:24	0°♄	
evening set	10755 Apr 25 22:07	21°♄21'55		evening max el	10756 Mar 25 11:18	1°♄41'38	22°39'58
inferior conj	10755 May 01 04:49	15°♄07'17	3°00'55	retrograde	10756 Apr 04 10:24	7°♄34'56	
minimum elong	10755 May 01 03:16	15°♄12'44	3°00'18	asc. node	10756 Apr 05 01:58	7°♄32'53	
min. Earth dist.	10755 May 01 11:19	14°♄44'42	0.68489 AU	evening set	10756 Apr 09 05:52	5°♄35'11	
morning rise	10755 May 06 08:10	8°♄52'29			10756 Apr 14 00:06	30°♒♐	
direct	10755 May 11 11:28	6°♄37'48		inferior conj	10756 Apr 14 13:59	29°♐11'48	2°37'09
morning max el	10755 May 21 16:55	12°♄42'13	23°05'18	minimum elong	10756 Apr 14 11:55	29°♐19'00	2°36'25
desc. node	10755 May 22 23:43	14°♄02'20		min. Earth dist.	10756 Apr 14 07:52	29°♐33'06	0.68671 AU
	10755 Jun 04 13:54	0°♑		morning rise	10756 Apr 19 17:50	23°♐02'42	
	10755 Jun 24 05:04	0°♅		direct	10756 Apr 24 07:39	21°♐08'50	
morning set	10755 Jun 25 06:28	1°♅45'12		morning max el	10756 May 03 06:28	26°♐20'52	21°38'30
max. Earth dist.	10755 Jun 29 13:11	9°♅00'03	1.39766 AU		10756 May 06 14:50	0°♄	
				desc. node	10756 May 08 20:34	2°♄42'48	
superior conj	10755 Jul 07 06:58	22°♅47'12	-1°17'18		10756 May 28 01:58	0°♑	
minimum elong	10755 Jul 07 12:12	23°♅11'16	1°17'04	morning set	10756 Jun 04 08:46	11°♑20'30	
	10755 Jul 11 03:50	0°♏		max. Earth dist.	10756 Jun 10 14:49	21°♑28'31	1.41971 AU
asc. node	10755 Jul 16 03:33	9°♏31'07			10756 Jun 15 16:30	0°♅	
evening rise	10755 Jul 16 22:00	10°♏59'34					
	10755 Jul 27 13:07	0°♐		superior conj	10756 Jun 18 04:35	4°♅19'06	-1°47'01
evening max el	10755 Aug 01 23:23	6°♐55'05	18°33'41	minimum elong	10756 Jun 18 11:05	4°♅47'23	1°46'56
retrograde	10755 Aug 09 20:45	10°♐52'10		evening rise	10756 Jun 29 04:21	24°♅02'45	
evening set	10755 Aug 11 21:35	10°♐37'15		asc. node	10756 Jul 02 00:32	29°♅13'43	
desc. node	10755 Aug 18 22:26	6°♐45'06			10756 Jul 02 10:44	0°♏	
inferior conj	10755 Aug 19 17:20	6°♐09'00	-0°14'33	evening max el	10756 Jul 15 08:59	19°♏41'02	18°09'27
minimum elong	10755 Aug 19 16:46	6°♐10'07	0°14'37	retrograde	10756 Jul 22 07:32	23°♏12'29	
transit middle	10755 Aug 19 16:46	6°♐10'07	0°14'37	evening set	10756 Jul 24 15:48	22°♏48'51	
transit begin	10755 Aug 19 15:14	6°♐13'03		inferior conj	10756 Jul 31 16:44	17°♏59'43	1°12'22
transit end	10755 Aug 19 18:17	6°♐07'11		minimum elong	10756 Jul 31 18:53	17°♏54'53	1°11'12
min. Earth dist.	10755 Aug 22 23:49	3°♐39'01	0.57587 AU	min. Earth dist.	10756 Aug 04 00:13	15°♏02'22	0.59768 AU
morning rise	10755 Aug 27 08:27	0°♐55'36		desc. node	10756 Aug 04 19:41	14°♏21'51	
	10755 Aug 29 16:28	30°♒♏		morning rise	10756 Aug 07 18:53	12°♏14'53	

direct	10756 Aug 14 05:37	10°♎17'24		desc. node	10757 Jul 22 16:53	23°♊18'46	
morning max el	10756 Aug 28 13:48	18°♎09'02	27°43'06	direct	10757 Jul 27 15:40	22°♊00'54	
	10756 Sep 07 12:06	0°♎			10757 Aug 10 18:29	0°♎	
	10756 Sep 25 10:01	0°♎		morning max el	10757 Aug 10 19:39	0°♎02'55	27°56'58
asc. node	10756 Sep 28 00:58	5°♎16'23			10757 Sep 01 13:28	0°♎	
morning set	10756 Sep 29 13:50	8°♎27'31		morning set	10757 Sep 13 14:28	22°♎32'08	
max. Earth dist.	10756 Oct 05 20:29	22°♎03'45	1.31469 AU	asc. node	10757 Sep 14 21:46	25°♎13'29	
					10757 Sep 17 04:10	0°♎	
superior conj	10756 Oct 06 16:42	23°♎55'59	1°16'35	max. Earth dist.	10757 Sep 19 02:42	4°♎10'22	1.31909 AU
minimum elong	10756 Oct 06 14:31	23°♎43'49	1°16'27				
	10756 Oct 09 10:12	0°♎		superior conj	10757 Sep 21 02:18	8°♎30'17	0°58'04
evening rise	10756 Oct 13 09:58	8°♎43'46		minimum elong	10757 Sep 21 00:08	8°♎18'22	0°57'43
	10756 Oct 24 06:35	0°♎		evening rise	10757 Sep 27 21:01	23°♎21'37	
desc. node	10756 Oct 31 17:14	11°♎46'57			10757 Oct 01 00:38	0°♎	
evening max el	10756 Nov 10 12:19	23°♎27'48	25°56'11	desc. node	10757 Oct 18 14:28	29°♎08'41	
	10756 Nov 20 20:40	0°♎			10757 Oct 19 07:40	0°♎	
retrograde	10756 Nov 24 09:58	0°♎29'58		evening max el	10757 Oct 23 01:30	3°♎59'35	24°26'48
	10756 Nov 27 22:49	30°♎		retrograde	10757 Nov 05 19:10	10°♎52'44	
evening set	10756 Nov 30 17:02	28°♎56'40		evening set	10757 Nov 11 00:07	9°♎52'43	
min. Earth dist.	10756 Dec 05 00:57	26°♎21'13	0.58128 AU	min. Earth dist.	10757 Nov 16 12:36	7°♎03'01	0.56293 AU
inferior conj	10756 Dec 08 02:40	24°♎09'34	-4°50'07	inferior conj	10757 Nov 18 23:23	5°♎31'02	-5°37'47
minimum elong	10756 Dec 08 10:35	23°♎55'22	4°47'42	minimum elong	10757 Nov 19 03:43	5°♎24'14	5°36'53
morning rise	10756 Dec 16 06:37	19°♎46'15		morning rise	10757 Nov 27 09:28	1°♎29'22	
direct	10756 Dec 18 11:31	19°♎30'37		direct	10757 Nov 29 22:20	1°♎12'11	
asc. node	10756 Dec 25 01:03	21°♎59'18		morning max el	10757 Dec 09 18:19	5°♎53'05	19°38'39
morning max el	10756 Dec 26 22:23	23°♎37'20	18°40'07	asc. node	10757 Dec 11 22:04	8°♎09'46	
	10757 Jan 01 02:35	0°♎			10757 Dec 25 04:42	0°♎	
morning set	10757 Jan 12 02:09	19°♎32'30		morning set	10757 Dec 27 05:31	4°♎04'04	
	10757 Jan 17 11:32	0°♎					
superior conj	10757 Jan 20 20:01	6°♎22'07	0°51'28	superior conj	10758 Jan 04 03:29	19°♎59'15	1°14'36
minimum elong	10757 Jan 20 22:59	6°♎36'02	0°51'31	minimum elong	10758 Jan 04 06:23	20°♎13'30	1°14'47
desc. node	10757 Jan 27 16:22	18°♎48'30			10758 Jan 09 08:28	0°♎	
max. Earth dist.	10757 Jan 28 03:11	19°♎35'56	1.39848 AU	max. Earth dist.	10758 Jan 10 09:08	1°♎54'43	1.37637 AU
evening rise	10757 Feb 01 04:33	26°♎33'16		evening rise	10758 Jan 14 02:23	8°♎38'43	
	10757 Feb 03 06:14	0°♎		desc. node	10758 Jan 14 13:14	9°♎26'39	
	10757 Feb 23 05:22	0°♎			10758 Jan 27 01:36	0°♎	
evening max el	10757 Mar 08 01:37	15°♎29'47	24°00'25	evening max el	10758 Feb 18 14:51	29°♎19'37	25°16'55
retrograde	10757 Mar 19 03:53	22°♎01'15			10758 Feb 19 07:34	0°♎	
asc. node	10757 Mar 22 23:14	20°♎53'43		retrograde	10758 Mar 02 17:17	6°♎20'05	
evening set	10757 Mar 24 11:14	19°♎47'50		evening set	10758 Mar 08 12:39	3°♎55'35	
min. Earth dist.	10757 Mar 29 04:13	14°♎21'02	0.68414 AU	asc. node	10758 Mar 09 20:28	2°♎41'05	
inferior conj	10757 Mar 29 22:28	13°♎19'03	2°03'50		10758 Mar 12 04:32	30°♎	
minimum elong	10757 Mar 29 20:18	13°♎26'25	2°03'06	min. Earth dist.	10758 Mar 12 22:17	29°♎03'40	0.67738 AU
morning rise	10757 Apr 04 05:26	7°♎16'49		inferior conj	10758 Mar 14 04:25	27°♎25'51	1°21'13
direct	10757 Apr 08 06:06	5°♎44'51		minimum elong	10758 Mar 14 02:39	27°♎31'35	1°20'39
morning max el	10757 Apr 16 02:40	10°♎11'20	20°21'23	morning rise	10758 Mar 19 17:02	21°♎31'47	
desc. node	10757 Apr 25 17:21	22°♎02'01		direct	10758 Mar 23 05:31	20°♎20'35	
	10757 May 01 07:07	0°♎		morning max el	10758 Mar 30 06:39	24°♎13'06	19°18'10
morning set	10757 May 14 13:04	19°♎58'55			10758 Apr 04 06:04	0°♎	
	10757 May 20 22:49	0°♎		greatest brilliancy	10758 Apr 12 02:45	11°♎07'26	-0.7m
max. Earth dist.	10757 May 23 23:17	4°♎48'41	1.43808 AU	desc. node	10758 Apr 12 14:07	11°♎49'47	
				morning set	10758 Apr 23 13:30	28°♎33'40	
superior conj	10757 May 30 02:41	14°♎48'30	-2°07'40		10758 Apr 24 11:52	0°♎	
minimum elong	10757 May 30 07:14	15°♎07'18	2°08'00	max. Earth dist.	10758 May 06 13:32	18°♎48'01	1.45076 AU
	10757 Jun 08 02:27	0°♎					
evening rise	10757 Jun 11 17:54	6°♎19'01		superior conj	10758 May 10 01:15	24°♎19'02	-2°12'32
asc. node	10757 Jun 18 21:31	18°♎38'52		minimum elong	10758 May 09 23:24	24°♎11'43	2°12'56
	10757 Jun 26 09:24	0°♎			10758 May 13 14:38	0°♎	
evening max el	10757 Jun 28 22:13	2°♎52'08	18°04'44	evening rise	10758 May 24 09:54	17°♎38'16	
retrograde	10757 Jul 05 09:11	6°♎13'03			10758 May 31 21:40	0°♎	
evening set	10757 Jul 08 01:17	5°♎37'45		asc. node	10758 Jun 05 18:33	7°♎40'13	
inferior conj	10757 Jul 14 10:33	0°♎29'29	2°13'46	evening max el	10758 Jun 12 11:48	16°♎19'53	18°18'35
minimum elong	10757 Jul 14 13:19	0°♎22'23	2°12'32	retrograde	10758 Jun 18 21:04	19°♎44'15	
	10757 Jul 14 21:57	30°♎		evening set	10758 Jun 21 21:05	18°♎55'09	
min. Earth dist.	10757 Jul 17 09:37	27°♎27'36	0.62032 AU	inferior conj	10758 Jun 27 18:37	13°♎29'37	2°52'24
morning rise	10757 Jul 20 23:08	24°♎23'36		minimum elong	10758 Jun 27 20:45	13°♎23'27	2°51'28
				min. Earth dist.	10758 Jun 30 04:26	10°♎44'00	0.64140 AU

morning rise	10758 Jul 03 19:06	7°☿12'41		morning rise	10759 Jun 17 04:01	20°♊32'11	
desc. node	10758 Jul 09 14:02	4°☿36'13		direct	10759 Jun 23 13:33	17°♊48'11	
direct	10758 Jul 10 10:53	4°☿33'40		desc. node	10759 Jun 26 11:07	18°♊17'10	
morning max el	10758 Jul 24 05:12	12°☿35'11	27°33'50	morning max el	10759 Jul 06 15:53	25°♊35'05	26°40'06
	10758 Aug 07 03:17	0°♊			10759 Jul 10 16:44	0°☿	
	10758 Aug 25 02:20	0°♊			10759 Jul 31 15:43	0°♊	
morning set	10758 Aug 28 07:03	6°♊11'08		morning set	10759 Aug 11 12:33	19°♊16'41	
asc. node	10758 Sep 01 18:32	15°♊16'58		max. Earth dist.	10759 Aug 15 15:04	27°♊14'53	1.34316 AU
max. Earth dist.	10758 Sep 02 01:50	15°♊55'01	1.32858 AU		10759 Aug 17 00:03	0°♊	
				asc. node	10759 Aug 19 15:20	5°♊23'04	
superior conj	10758 Sep 05 07:59	22°♊49'11	0°34'35	superior conj	10759 Aug 20 07:31	6°♊46'50	0°06'38
minimum elong	10758 Sep 05 06:24	22°♊40'41	0°34'08	minimum elong	10759 Aug 20 07:10	6°♊45'03	0°06'17
	10758 Sep 08 15:46	0°♊		behind sun begin	10759 Aug 20 01:48	6°♊17'11	
evening rise	10758 Sep 12 08:21	7°♊57'16		behind sun end	10759 Aug 20 12:33	7°♊12'58	
	10758 Sep 23 19:13	0°♊		evening rise	10759 Aug 27 18:06	22°♊25'40	
evening max el	10758 Oct 04 12:12	14°♊06'51	22°46'16		10759 Aug 31 10:41	0°♊	
desc. node	10758 Oct 05 11:44	15°♊02'12		evening max el	10759 Sep 16 05:45	24°♊26'42	21°11'26
retrograde	10758 Oct 17 15:55	20°♊39'47		desc. node	10759 Sep 22 09:01	28°♊58'26	
evening set	10758 Oct 21 09:35	20°♊09'17			10759 Sep 25 04:49	0°♊	
min. Earth dist.	10758 Oct 28 20:31	16°♊47'08	0.55030 AU	retrograde	10759 Sep 28 03:45	0°♊21'26	
inferior conj	10758 Oct 30 01:29	16°♊05'46	-5°41'48	evening set	10759 Sep 30 15:07	0°♊07'11	
minimum elong	10758 Oct 29 21:52	16°♊10'57	5°41'10		10759 Oct 01 04:51	30°♊	
morning rise	10758 Nov 07 11:50	12°♊17'17		inferior conj	10759 Oct 09 17:48	26°♊11'52	-4°48'25
direct	10758 Nov 10 15:11	11°♊54'31		minimum elong	10759 Oct 09 08:13	26°♊25'20	4°45'56
morning max el	10758 Nov 22 00:39	17°♊17'35	20°59'45	min. Earth dist.	10759 Oct 10 03:59	25°♊57'32	0.54607 AU
asc. node	10758 Nov 28 19:02	25°♊26'27		morning rise	10759 Oct 18 01:51	22°♊19'59	
	10758 Dec 01 17:17	0°♊		direct	10759 Oct 21 23:37	21°♊47'06	
morning set	10758 Dec 11 13:46	18°♊46'28		morning max el	10759 Nov 03 18:25	27°♊54'04	22°39'34
	10758 Dec 16 22:38	0°♊			10759 Nov 05 20:26	0°♊	
superior conj	10758 Dec 18 22:16	4°♊06'47	1°29'54	asc. node	10759 Nov 15 15:58	13°♊34'40	
minimum elong	10758 Dec 19 00:18	4°♊17'15	1°30'18		10759 Nov 24 07:52	0°♊	
max. Earth dist.	10758 Dec 23 18:03	13°♊49'39	1.35588 AU	morning set	10759 Nov 26 00:43	3°♊33'56	
evening rise	10758 Dec 27 18:18	21°♊30'23		superior conj	10759 Dec 03 00:56	18°♊35'06	1°37'59
desc. node	10759 Jan 01 10:09	29°♊56'48		minimum elong	10759 Dec 03 01:48	18°♊39'43	1°38'30
	10759 Jan 01 10:53	0°♊		max. Earth dist.	10759 Dec 06 10:21	25°♊43'23	1.33875 AU
	10759 Jan 20 22:17	0°♊			10759 Dec 08 12:30	0°♊	
evening max el	10759 Feb 01 04:19	13°♊06'58	26°22'22	evening rise	10759 Dec 11 00:36	4°♊58'57	
retrograde	10759 Feb 14 01:34	20°♊24'16		desc. node	10759 Dec 19 07:08	20°♊14'15	
evening set	10759 Feb 20 08:24	17°♊52'37			10759 Dec 25 04:37	0°♊	
min. Earth dist.	10759 Feb 24 11:52	13°♊35'08	0.66660 AU	evening max el	10760 Jan 14 17:49	26°♊43'24	27°09'14
asc. node	10759 Feb 24 17:42	13°♊17'37			10760 Jan 18 12:23	0°♊	
inferior conj	10759 Feb 26 05:48	11°♊27'34	0°29'16	retrograde	10760 Jan 28 03:45	4°♊06'14	
minimum elong	10759 Feb 26 05:02	11°♊29'54	0°29'11	evening set	10760 Feb 03 20:26	1°♊32'46	
morning rise	10759 Mar 04 02:33	5°♊43'28			10760 Feb 05 15:30	30°♊	
direct	10759 Mar 07 04:12	4°♊50'23		min. Earth dist.	10760 Feb 07 18:42	27°♊48'41	0.65218 AU
morning max el	10759 Mar 13 17:34	8°♊21'29	18°30'59	inferior conj	10760 Feb 10 00:21	25°♊18'53	-0°31'52
	10759 Mar 29 04:47	0°♊		minimum elong	10760 Feb 10 01:17	25°♊16'17	0°31'07
desc. node	10759 Mar 30 10:51	1°♊58'14		asc. node	10760 Feb 11 14:56	23°♊33'23	
morning set	10759 Apr 03 08:49	8°♊08'53		morning rise	10760 Feb 16 07:36	19°♊47'12	
	10759 Apr 17 06:37	0°♊		direct	10760 Feb 19 00:01	19°♊08'47	
superior conj	10759 Apr 19 08:56	3°♊16'42	-1°57'15	morning max el	10760 Feb 25 09:14	22°♊29'58	18°00'36
minimum elong	10759 Apr 19 00:32	2°♊43'51	1°56'57		10760 Mar 02 08:52	0°♊	
max. Earth dist.	10759 Apr 19 07:56	3°♊12'45	1.45647 AU	morning set	10760 Mar 14 09:06	19°♊10'34	
evening rise	10759 May 05 01:53	27°♊58'14		desc. node	10760 Mar 16 07:35	22°♊21'18	
	10759 May 06 08:37	0°♊			10760 Mar 21 00:11	0°♊	
greatest brilliancy	10759 May 13 23:07	12°♊00'59	-0.8m	superior conj	10760 Mar 28 18:54	12°♊27'00	-1°24'18
asc. node	10759 May 23 15:38	26°♊10'00		minimum elong	10760 Mar 28 10:04	11°♊52'01	1°23'22
	10759 May 26 23:53	0°♊		max. Earth dist.	10760 Apr 01 04:00	17°♊46'27	1.45474 AU
evening max el	10759 May 26 23:01	29°♊57'49	18°50'10		10760 Apr 09 00:18	0°♊	
retrograde	10759 Jun 02 15:22	3°♊38'35		evening rise	10760 Apr 13 21:34	7°♊32'53	
evening set	10759 Jun 05 23:35	2°♊34'19		greatest brilliancy	10760 Apr 27 13:07	28°♊18'30	-0.7m
	10759 Jun 08 22:08	30°♊			10760 Apr 28 16:44	0°♊	
inferior conj	10759 Jun 11 13:07	26°♊53'02	3°12'25	evening max el	10760 May 09 05:45	13°♊39'50	19°38'18
minimum elong	10759 Jun 11 14:09	26°♊49'47	3°11'46	asc. node	10760 May 09 12:47	13°♊57'23	
min. Earth dist.	10759 Jun 13 07:57	24°♊39'11	0.65920 AU				

retrograde	10760 May 16 13:06	17° Π 48'57			10761 May 05 06:35	30° \mathbb{R} 8	
evening set	10760 May 20 06:03	16° Π 28'50		inferior conj	10761 May 09 21:10	24° \mathbb{B} 25'41	3°10'06
inferior conj	10760 May 25 14:50	10° Π 33'04	3°17'27	minimum elong	10761 May 09 20:03	24° \mathbb{B} 29'32	3°09'32
minimum elong	10760 May 25 14:42	10° Π 33'29	3°16'55	min. Earth dist.	10761 May 10 11:09	23° \mathbb{B} 37'30	0.68178 AU
min. Earth dist.	10760 May 26 18:47	9° Π 00'11	0.67279 AU	morning rise	10761 May 15 01:29	18° \mathbb{B} 08'22	
morning rise	10760 May 30 23:00	4° Π 12'46		direct	10761 May 20 12:18	15° \mathbb{B} 43'37	
direct	10760 Jun 05 22:21	1° Π 34'18		desc. node	10761 May 30 05:07	21° \mathbb{B} 02'22	
desc. node	10760 Jun 12 08:09	3° Π 55'27		morning max el	10761 May 31 11:43	22° \mathbb{B} 17'12	23°57'11
morning max el	10760 Jun 18 02:01	8° Π 51'16	25°24'35		10761 Jun 07 05:20	0° Π	
	10760 Jul 04 16:46	0° \mathbb{E}			10761 Jun 28 00:04	0° \mathbb{E}	
	10760 Jul 23 05:10	0° Ω		morning set	10761 Jul 05 21:26	13° \mathbb{E} 02'54	
morning set	10760 Jul 24 02:57	1° Ω 37'51		max. Earth dist.	10761 Jul 09 15:59	19° \mathbb{E} 37'41	1.38443 AU
max. Earth dist.	10760 Jul 27 18:23	8° Ω 20'21	1.36227 AU		10761 Jul 15 08:34	0° Ω	
superior conj	10760 Aug 02 22:02	20° Ω 15'10	-0°24'56	superior conj	10761 Jul 17 00:04	3° Ω 05'58	-0°58'18
minimum elong	10760 Aug 02 23:35	20° Ω 22'57	0°25'01	minimum elong	10761 Jul 17 03:59	3° Ω 24'33	0°58'08
asc. node	10760 Aug 05 12:10	25° Ω 27'26		asc. node	10761 Jul 23 09:03	15° Ω 26'34	
	10760 Aug 07 17:42	0° \mathbb{P}		evening rise	10761 Jul 25 23:38	20° Ω 34'12	
evening rise	10760 Aug 11 00:03	6° \mathbb{P} 40'13			10761 Jul 30 21:08	0° \mathbb{P}	
	10760 Aug 23 23:45	0° $\underline{\mathbf{a}}$		evening max el	10761 Aug 11 07:57	17° \mathbb{P} 10'47	18°56'41
evening max el	10760 Aug 28 12:14	5° $\underline{\mathbf{a}}$ 25'19	19°53'31	retrograde	10761 Aug 19 23:51	21° \mathbb{P} 30'03	
retrograde	10760 Sep 07 18:26	10° $\underline{\mathbf{a}}$ 31'07		evening set	10761 Aug 21 21:14	21° \mathbb{P} 18'30	
desc. node	10760 Sep 08 06:20	10° $\underline{\mathbf{a}}$ 30'26		desc. node	10761 Aug 26 03:38	19° \mathbb{P} 37'56	
evening set	10760 Sep 09 15:56	10° $\underline{\mathbf{a}}$ 21'27		inferior conj	10761 Aug 30 04:06	17° \mathbb{P} 01'33	-1°15'10
inferior conj	10760 Sep 18 14:31	6° $\underline{\mathbf{a}}$ 20'33	-3°08'56	minimum elong	10761 Aug 30 00:53	17° \mathbb{P} 07'12	1°14'05
minimum elong	10760 Sep 18 06:14	6° $\underline{\mathbf{a}}$ 33'11	3°05'59	min. Earth dist.	10761 Sep 02 03:30	14° \mathbb{P} 56'32	0.56499 AU
min. Earth dist.	10760 Sep 20 13:30	5° $\underline{\mathbf{a}}$ 09'02	0.55125 AU	morning rise	10761 Sep 07 01:20	12° \mathbb{P} 09'09	
morning rise	10760 Sep 26 19:02	2° $\underline{\mathbf{a}}$ 04'57		direct	10761 Sep 12 13:21	10° \mathbb{P} 57'22	
direct	10760 Oct 01 12:04	1° $\underline{\mathbf{a}}$ 16'29		morning max el	10761 Sep 26 18:56	18° \mathbb{P} 16'50	26°05'22
morning max el	10760 Oct 15 05:50	8° $\underline{\mathbf{a}}$ 03'12	24°27'10		10761 Oct 06 14:02	0° $\underline{\mathbf{a}}$	
	10760 Oct 31 05:29	0° \mathbb{M}		asc. node	10761 Oct 19 09:42	21° $\underline{\mathbf{a}}$ 37'27	
asc. node	10760 Nov 01 12:51	2° \mathbb{M} 21'44			10761 Oct 23 12:58	0° \mathbb{M}	
morning set	10760 Nov 09 12:34	18° \mathbb{M} 21'17		morning set	10761 Oct 24 23:34	3° \mathbb{M} 03'09	
	10760 Nov 14 20:56	0° \mathbb{X}		superior conj	10761 Oct 31 19:35	18° \mathbb{M} 03'22	1°35'01
superior conj	10760 Nov 16 08:48	3° \mathbb{X} 16'24	1°39'30	minimum elong	10761 Oct 31 18:18	17° \mathbb{M} 56'11	1°35'20
minimum elong	10760 Nov 16 08:29	3° \mathbb{X} 14'44	1°40'00	max. Earth dist.	10761 Nov 01 17:07	20° \mathbb{M} 02'38	1.31766 AU
max. Earth dist.	10760 Nov 18 10:44	7° \mathbb{X} 47'46	1.32586 AU		10761 Nov 06 06:44	0° \mathbb{X}	
evening rise	10760 Nov 23 17:51	18° \mathbb{X} 55'32		evening rise	10761 Nov 07 19:01	3° \mathbb{X} 11'52	
	10760 Nov 29 10:07	0° \mathbb{Z}		desc. node	10761 Nov 22 01:19	29° \mathbb{X} 44'55	
desc. node	10760 Dec 05 04:11	10° \mathbb{Z} 13'07			10761 Nov 22 05:03	0° \mathbb{Z}	
	10760 Dec 18 10:25	0° \approx		evening max el	10761 Dec 09 13:55	22° \mathbb{Z} 33'59	27°20'31
evening max el	10760 Dec 27 05:50	9° \approx 57'03	27°30'31	retrograde	10761 Dec 23 11:03	29° \mathbb{Z} 49'02	
retrograde	10761 Jan 09 23:09	17° \approx 17'54		evening set	10761 Dec 30 11:00	27° \mathbb{Z} 34'36	
evening set	10761 Jan 16 22:22	14° \approx 49'33		min. Earth dist.	10762 Jan 03 04:21	24° \mathbb{Z} 45'35	0.61439 AU
min. Earth dist.	10761 Jan 20 16:41	11° \approx 36'11	0.63453 AU	inferior conj	10762 Jan 06 05:44	22° \mathbb{Z} 02'24	-2°56'27
inferior conj	10761 Jan 23 09:25	8° \approx 53'30	-1°41'16	minimum elong	10762 Jan 06 11:40	21° \mathbb{Z} 49'08	2°53'41
minimum elong	10761 Jan 23 12:41	8° \approx 45'14	1°39'27	morning rise	10762 Jan 13 14:58	17° \mathbb{Z} 04'54	
asc. node	10761 Jan 28 12:09	4° \approx 28'45		asc. node	10762 Jan 15 09:20	16° \mathbb{Z} 45'35	
morning rise	10761 Jan 30 05:07	3° \approx 37'19		direct	10762 Jan 15 19:11	16° \mathbb{Z} 44'52	
direct	10761 Feb 01 14:13	3° \approx 09'54		morning max el	10762 Jan 22 19:14	20° \mathbb{Z} 16'45	17°52'20
morning max el	10761 Feb 08 02:53	6° \approx 31'33	17°47'29		10762 Jan 30 00:56	0° \approx	
	10761 Feb 23 15:13	0° \mathbb{H}		morning set	10762 Feb 07 11:08	14° \approx 45'11	
morning set	10761 Feb 24 12:00	1° \mathbb{H} 29'34			10762 Feb 15 23:48	0° \mathbb{H}	
desc. node	10761 Mar 03 04:19	12° \mathbb{H} 54'38		superior conj	10762 Feb 18 04:55	3° \mathbb{H} 50'23	-0°01'14
superior conj	10761 Mar 08 23:29	22° \mathbb{H} 33'21	-0°42'36	minimum elong	10762 Feb 18 04:50	3° \mathbb{H} 50'01	0°00'55
minimum elong	10761 Mar 08 18:59	22° \mathbb{H} 14'55	0°41'49	behind sun begin	10762 Feb 17 20:27	3° \mathbb{H} 13'50	
	10761 Mar 13 13:45	0° \mathbb{Y}		behind sun end	10762 Feb 18 13:14	4° \mathbb{H} 26'06	
max. Earth dist.	10761 Mar 14 22:51	2° \mathbb{Y} 12'11	1.44579 AU	desc. node	10762 Feb 18 01:04	3° \mathbb{H} 33'44	
evening rise	10761 Mar 24 09:00	16° \mathbb{Y} 55'36		max. Earth dist.	10762 Feb 25 13:39	16° \mathbb{H} 11'33	1.43062 AU
	10761 Apr 02 00:12	0° \mathbb{B}		evening rise	10762 Mar 04 03:25	26° \mathbb{H} 43'03	
evening max el	10761 Apr 22 06:53	27° \mathbb{B} 23'14	20°40'51		10762 Mar 06 05:57	0° \mathbb{Y}	
	10761 Apr 25 05:11	0° Π			10762 Mar 26 20:20	0° \mathbb{B}	
asc. node	10761 Apr 26 10:00	0° Π 49'36		evening max el	10762 Apr 05 02:31	11° \mathbb{B} 07'04	21°54'31
retrograde	10761 Apr 30 11:54	2° Π 10'11		asc. node	10762 Apr 13 07:16	16° \mathbb{B} 30'50	
evening set	10761 May 04 14:24	0° Π 34'14		retrograde	10762 Apr 14 09:53	16° \mathbb{B} 36'50	

evening set	10762 Apr 18 22:50	14°♄45'32		retrograde	10763 Mar 29 05:22	1°♄04'08	
inferior conj	10762 Apr 24 05:52	8°♄26'32	2°52'02	asc. node	10763 Mar 31 04:31	0°♄45'40	
minimum elong	10762 Apr 24 04:03	8°♄32'54	2°51'22		10763 Apr 01 20:01	30°♄	
min. Earth dist.	10762 Apr 24 06:51	8°♄23'06	0.68615 AU	evening set	10763 Apr 03 05:43	28°♄58'32	
morning rise	10762 Apr 29 09:06	2°♄13'55		min. Earth dist.	10763 Apr 08 03:41	23°♄11'11	0.68610 AU
direct	10762 May 04 06:32	0°♄07'59		inferior conj	10763 Apr 08 14:58	22°♄32'15	2°24'09
morning max el	10762 May 13 22:57	5°♄50'25	22°27'37	minimum elong	10763 Apr 08 12:48	22°♄39'44	2°23'25
desc. node	10762 May 17 02:00	9°♄13'38		morning rise	10763 Apr 13 19:47	16°♄25'38	
	10762 Jun 01 13:17	0°♄		direct	10763 Apr 18 03:53	14°♄41'02	
morning set	10762 Jun 16 15:06	23°♄19'45		morning max el	10763 Apr 26 14:54	19°♄32'56	21°04'06
	10762 Jun 20 15:54	0°♄		desc. node	10763 May 03 22:49	28°♄11'37	
max. Earth dist.	10762 Jun 21 14:05	1°♄33'24	1.40724 AU		10763 May 05 07:27	0°♄	
					10763 May 25 17:14	0°♄	
superior conj	10762 Jun 29 09:21	15°♄09'22	-1°30'37	morning set	10763 May 27 06:37	2°♄25'55	
minimum elong	10762 Jun 29 15:22	15°♄36'23	1°30'24	max. Earth dist.	10763 Jun 03 17:50	14°♄21'32	1.42803 AU
	10762 Jul 07 10:39	0°♄					
evening rise	10762 Jul 09 13:27	3°♄58'52		superior conj	10763 Jun 10 21:18	26°♄14'49	-1°57'17
asc. node	10762 Jul 10 05:59	5°♄16'32		minimum elong	10763 Jun 11 03:29	26°♄41'11	1°57'23
evening max el	10762 Jul 25 13:42	29°♄37'53	18°20'58		10763 Jun 13 01:55	0°♄	
	10762 Jul 25 22:52	0°♄		evening rise	10763 Jun 22 13:12	16°♄42'40	
retrograde	10762 Aug 02 00:11	3°♄22'24		asc. node	10763 Jun 27 02:57	24°♄51'58	
evening set	10762 Aug 04 03:51	3°♄04'21			10763 Jun 30 02:13	0°♄	
	10762 Aug 09 17:05	30°♄		evening max el	10763 Jul 09 01:20	12°♄35'39	18°05'14
inferior conj	10762 Aug 11 15:24	28°♄27'23	0°25'21	retrograde	10763 Jul 15 17:36	16°♄00'34	
minimum elong	10762 Aug 11 16:17	28°♄25'35	0°24'40	evening set	10763 Jul 18 05:14	15°♄32'17	
desc. node	10762 Aug 13 00:54	27°♄17'54		inferior conj	10763 Jul 24 23:04	10°♄35'08	1°41'25
min. Earth dist.	10762 Aug 14 23:52	25°♄42'47	0.58477 AU	minimum elong	10763 Jul 25 01:41	10°♄28'53	1°40'07
morning rise	10762 Aug 19 01:11	22°♄59'07		min. Earth dist.	10763 Jul 28 04:00	7°♄32'52	0.60734 AU
direct	10762 Aug 25 05:22	21°♄18'08		desc. node	10763 Jul 30 22:08	5°♄16'42	
morning max el	10762 Sep 08 14:15	29°♄01'20	27°17'34	morning rise	10763 Jul 31 19:22	4°♄40'12	
	10762 Sep 09 13:43	0°♄		direct	10763 Aug 07 09:39	2°♄30'48	
	10762 Sep 30 10:14	0°♄		morning max el	10763 Aug 21 16:22	10°♄28'09	27°53'42
asc. node	10762 Oct 06 06:31	11°♄14'05			10763 Sep 05 21:24	0°♄	
morning set	10762 Oct 09 08:03	17°♄34'52			10763 Sep 22 14:43	0°♄	
	10762 Oct 15 00:49	0°♄		asc. node	10763 Sep 23 03:18	1°♄04'47	
				morning set	10763 Sep 23 12:06	1°♄50'23	
superior conj	10762 Oct 16 07:24	2°♄50'13	1°24'54	max. Earth dist.	10763 Sep 29 10:34	14°♄35'01	1.31594 AU
minimum elong	10762 Oct 16 05:25	2°♄39'13	1°24'56				
max. Earth dist.	10762 Oct 16 02:17	2°♄21'40	1.31434 AU	superior conj	10763 Sep 30 18:19	17°♄30'22	1°09'23
evening rise	10762 Oct 23 01:42	17°♄41'32		minimum elong	10763 Sep 30 16:05	17°♄17'57	1°09'08
	10762 Oct 29 02:37	0°♄			10763 Oct 06 10:12	0°♄	
desc. node	10762 Nov 08 22:29	18°♄38'50		evening rise	10763 Oct 07 11:41	2°♄17'42	
	10762 Nov 17 10:58	0°♄			10763 Oct 22 05:38	0°♄	
evening max el	10762 Nov 21 15:36	4°♄23'50	26°36'19	desc. node	10763 Oct 26 19:42	6°♄39'27	
retrograde	10762 Dec 05 14:08	11°♄31'15		evening max el	10763 Nov 03 09:15	15°♄22'10	25°20'41
evening set	10762 Dec 12 06:16	9°♄40'41		retrograde	10763 Nov 17 06:12	22°♄20'44	
min. Earth dist.	10762 Dec 16 05:32	7°♄04'31	0.59317 AU	evening set	10763 Nov 23 03:26	21°♄01'47	
inferior conj	10762 Dec 19 09:46	4°♄36'28	-4°11'24	min. Earth dist.	10763 Nov 27 21:25	18°♄22'20	0.57301 AU
minimum elong	10762 Dec 19 17:40	4°♄21'04	4°08'29	inferior conj	10763 Nov 30 18:21	16°♄26'06	-5°14'16
morning rise	10762 Dec 27 07:47	0°♄00'10		minimum elong	10763 Dec 01 01:23	16°♄14'12	5°12'28
	10762 Dec 27 08:04	30°♄		morning rise	10763 Dec 09 01:37	12°♄12'02	
direct	10762 Dec 29 10:47	29°♄44'01		direct	10763 Dec 11 09:00	11°♄56'12	
	10762 Dec 31 12:21	0°♄		asc. node	10763 Dec 20 03:28	16°♄03'12	
asc. node	10763 Jan 02 06:26	0°♄39'06		morning max el	10763 Dec 20 09:11	16°♄16'49	19°02'07
morning max el	10763 Jan 06 06:38	3°♄35'38	18°16'34		10763 Dec 30 03:15	0°♄	
morning set	10763 Jan 22 00:38	28°♄40'14		morning set	10764 Jan 05 23:57	13°♄01'26	
	10763 Jan 22 17:27	0°♄					
superior conj	10763 Jan 31 09:28	16°♄12'04	0°34'26	superior conj	10764 Jan 14 08:29	29°♄25'18	1°02'16
minimum elong	10763 Jan 31 11:53	16°♄23'00	0°34'29	minimum elong	10764 Jan 14 11:34	29°♄40'01	1°02'21
desc. node	10763 Feb 04 21:51	24°♄15'15			10764 Jan 14 15:44	0°♄	
max. Earth dist.	10763 Feb 07 23:25	29°♄32'24	1.41099 AU	max. Earth dist.	10764 Jan 21 06:05	12°♄13'09	1.38909 AU
	10763 Feb 08 05:55	0°♄		desc. node	10764 Jan 22 18:42	14°♄55'39	
evening rise	10763 Feb 12 15:55	7°♄21'03		evening rise	10764 Jan 25 01:57	18°♄55'59	
	10763 Feb 27 08:44	0°♄			10764 Jan 31 17:57	0°♄	
evening max el	10763 Mar 18 18:13	24°♄53'12	23°14'18		10764 Feb 21 15:08	0°♄	
	10763 Mar 25 06:35	0°♄		evening max el	10764 Feb 29 08:04	8°♄43'04	24°33'57
				retrograde	10764 Mar 11 21:10	15°♄27'45	

evening set	10764 Mar 17 09:34	13° Υ 09'31		retrograde	10765 Feb 23 08:16	29° H 41'12	
asc. node	10764 Mar 17 01:44	13° Υ 25'43		evening set	10765 Mar 01 08:46	27° H 13'07	
min. Earth dist.	10764 Mar 21 23:22	7° Υ 57'27	0.68177 AU	asc. node	10765 Mar 03 22:58	24° H 38'21	
inferior conj	10764 Mar 22 22:36	6° Υ 39'54	1°46'54	min. Earth dist.	10765 Mar 05 15:42	22° H 36'07	0.67332 AU
minimum elong	10764 Mar 22 20:32	6° Υ 46'48	1°46'13	inferior conj	10765 Mar 07 02:51	20° H 44'57	1°00'20
morning rise	10764 Mar 28 07:38	0° Υ 40'47		minimum elong	10765 Mar 07 01:26	20° H 49'27	0°59'56
	10764 Mar 29 09:39	30° R H		morning rise	10765 Mar 12 18:39	14° H 54'59	
direct	10764 Apr 01 03:05	29° H 17'40		direct	10765 Mar 16 02:26	13° H 51'45	
	10764 Apr 03 23:58	0° Υ		morning max el	10765 Mar 22 21:26	17° H 33'12	18°56'07
morning max el	10764 Apr 08 14:18	3° Υ 28'00	19°52'35		10765 Apr 01 13:44	0° Υ	
desc. node	10764 Apr 19 19:37	17° Υ 44'03		greatest brilliancy	10765 Apr 05 16:50	6° Υ 11'28	-0.8m
	10764 Apr 28 02:43	0° B		desc. node	10765 Apr 06 16:21	7° Υ 41'14	
morning set	10764 May 05 06:21	10° B 54'08		morning set	10765 Apr 14 12:35	19° Υ 48'33	
max. Earth dist.	10764 May 16 05:10	28° B 00'55	1.44427 AU		10765 Apr 21 01:50	0° B	
	10764 May 17 11:04	0° II		max. Earth dist.	10765 Apr 28 22:06	12° B 15'03	1.45414 AU
superior conj	10764 May 21 09:04	6° II 18'05	-2°12'02	superior conj	10765 Apr 30 23:32	15° B 29'11	-2°08'33
minimum elong	10764 May 21 11:21	6° II 27'24	2°12'29	minimum elong	10765 Apr 30 18:28	15° B 09'15	2°08'44
evening rise	10764 Jun 03 18:06	28° II 35'26			10765 May 10 02:55	0° II	
	10764 Jun 04 13:57	0° B		evening rise	10765 May 15 23:55	9° II 28'52	
asc. node	10764 Jun 12 23:57	14° B 07'40			10765 May 28 20:35	0° B	
evening max el	10764 Jun 21 15:10	25° B 54'58	18°08'27	asc. node	10765 May 30 21:00	2° B 56'14	
retrograde	10764 Jun 28 00:04	29° B 15'21		evening max el	10765 Jun 05 03:59	9° B 27'05	18°29'52
evening set	10764 Jun 30 19:39	28° B 34'13		retrograde	10765 Jun 11 15:11	12° B 56'56	
inferior conj	10764 Jul 06 23:25	23° B 18'21	2°32'41	evening set	10765 Jun 14 18:41	12° B 01'22	
minimum elong	10764 Jul 07 02:01	23° B 11'19	2°31'33	inferior conj	10765 Jun 20 12:21	6° B 28'39	3°02'57
min. Earth dist.	10764 Jul 09 17:12	20° B 21'22	0.62962 AU	minimum elong	10765 Jun 20 14:03	6° B 23'33	3°02'08
morning rise	10764 Jul 13 06:38	17° B 07'02		min. Earth dist.	10765 Jun 22 15:44	3° B 55'21	0.64944 AU
desc. node	10764 Jul 16 19:18	15° B 09'31		morning rise	10765 Jun 26 08:26	0° B 09'21	
direct	10764 Jul 19 23:44	14° B 36'13			10765 Jun 26 12:59	30° R II	
morning max el	10764 Aug 02 23:57	22° B 38'33	27°51'23	direct	10765 Jul 02 22:00	27° II 27'12	
	10764 Aug 09 11:49	0° Ω		desc. node	10765 Jul 03 16:25	27° II 29'13	
	10764 Aug 29 03:11	0° M			10765 Jul 10 01:31	0° B	
morning set	10764 Sep 06 09:37	15° M 44'24		morning max el	10765 Jul 16 10:25	5° B 23'55	27°14'21
asc. node	10764 Sep 09 00:05	21° M 04'48			10765 Aug 04 04:21	0° Ω	
max. Earth dist.	10764 Sep 11 14:15	26° M 33'06	1.32255 AU	morning set	10765 Aug 20 21:55	29° Ω 09'50	
	10764 Sep 13 04:41	0° B			10765 Aug 21 08:13	0° M	
superior conj	10764 Sep 14 02:31	1° B 58'32	0°48'42	max. Earth dist.	10765 Aug 25 09:41	8° M 07'51	1.33417 AU
minimum elong	10764 Sep 14 00:31	1° B 47'39	0°48'18	asc. node	10765 Aug 26 20:54	11° M 09'36	
evening rise	10764 Sep 20 23:04	16° B 55'11		superior conj	10765 Aug 29 05:52	16° M 08'42	0°23'13
	10764 Sep 27 08:27	0° M		minimum elong	10765 Aug 29 04:44	16° M 02'38	0°22'49
desc. node	10764 Oct 12 16:56	23° M 26'42			10765 Sep 04 17:21	0° B	
evening max el	10764 Oct 14 20:32	25° M 39'43	23°44'21	evening rise	10765 Sep 05 09:59	1° B 28'18	
	10764 Oct 20 09:14	0° A			10765 Sep 21 08:52	0° M	
retrograde	10764 Oct 28 09:30	2° A 25'18		evening max el	10765 Sep 26 08:54	5° M 47'18	22°04'24
evening set	10764 Nov 02 00:11	1° A 38'57		desc. node	10765 Sep 29 14:12	8° M 34'10	
	10764 Nov 05 19:54	30° R M		retrograde	10765 Oct 09 01:42	12° M 06'39	
min. Earth dist.	10764 Nov 08 06:48	28° M 37'38	0.55677 AU	evening set	10765 Oct 12 05:10	11° M 44'37	
inferior conj	10764 Nov 10 06:33	27° M 26'27	-5°45'59	min. Earth dist.	10765 Oct 20 13:53	8° M 04'10	0.54734 AU
minimum elong	10764 Nov 10 07:48	27° M 24'34	5°45'31	inferior conj	10765 Oct 21 03:00	7° M 45'46	-5°26'15
morning rise	10764 Nov 18 17:18	23° M 31'48		minimum elong	10765 Oct 20 20:08	7° M 55'25	5°24'56
direct	10764 Nov 21 11:56	23° M 12'34		morning rise	10765 Oct 29 12:33	3° M 58'45	
morning max el	10764 Dec 01 23:21	28° M 10'24	20°10'26	direct	10765 Nov 01 23:26	3° M 32'24	
	10764 Dec 03 18:02	0° A		morning max el	10765 Nov 14 00:01	9° M 13'39	21°40'26
asc. node	10764 Dec 06 00:28	2° A 43'22		asc. node	10765 Nov 22 21:26	20° M 23'52	
morning set	10764 Dec 20 05:43	27° A 38'33			10765 Nov 28 10:48	0° A	
	10764 Dec 21 09:21	0° B		morning set	10765 Dec 04 15:25	12° A 24'30	
superior conj	10764 Dec 27 21:13	13° B 16'25	1°22'00	superior conj	10765 Dec 11 19:48	27° A 34'36	1°34'09
minimum elong	10764 Dec 27 23:49	13° B 29'26	1°22'18	minimum elong	10765 Dec 11 21:21	27° A 42'44	1°34'38
max. Earth dist.	10765 Jan 02 13:08	24° B 21'04	1.36739 AU		10765 Dec 12 23:44	0° B	
	10765 Jan 05 13:54	0° \approx		max. Earth dist.	10765 Dec 16 01:02	6° B 14'18	1.34810 AU
evening rise	10765 Jan 06 07:54	1° \approx 21'59		evening rise	10765 Dec 20 06:25	14° B 30'46	
desc. node	10765 Jan 08 15:34	5° \approx 30'43		desc. node	10765 Dec 26 12:32	25° B 56'21	
	10765 Jan 23 21:22	0° H			10765 Dec 28 21:12	0° \approx	
evening max el	10765 Feb 10 21:27	22° H 32'54	25°46'33		10766 Jan 18 15:15	0° H	

evening max el	10766 Jan 24 10:54	6° X 16'33	26°44'50	max. Earth dist.	10766 Nov 28 20:37	18° X 10'35	1.33265 AU
retrograde	10766 Feb 06 14:05	13° X 37'34		evening rise	10766 Dec 03 17:47	28° X 12'15	
evening set	10766 Feb 13 01:33	11° X 04'03			10766 Dec 04 15:34	0° Z	
min. Earth dist.	10766 Feb 17 02:34	7° X 01'17	0.66097 AU	desc. node	10766 Dec 13 09:32	16° Z 06'35	
asc. node	10766 Feb 18 20:12	4° X 59'03			10766 Dec 22 02:01	0° \approx	
inferior conj	10766 Feb 19 01:39	4° X 42'58	0°04'28	evening max el	10767 Jan 06 23:50	19° \approx 44'14	27°21'42
minimum elong	10766 Feb 19 01:31	4° X 43'21	0°04'41	retrograde	10767 Jan 20 13:44	27° \approx 07'50	
transit middle	10766 Feb 19 01:31	4° X 43'21	0°04'41	evening set	10767 Jan 27 09:40	24° \approx 35'22	
transit begin	10766 Feb 18 22:42	4° X 51'38		min. Earth dist.	10767 Jan 31 05:56	21° \approx 04'51	0.64505 AU
transit end	10766 Feb 19 04:19	4° X 35'05		inferior conj	10767 Feb 02 16:31	18° \approx 27'56	-1°00'22
	10766 Feb 23 16:12	30° $\text{R}\approx$		minimum elong	10767 Feb 02 18:22	18° \approx 22'57	0°59'11
morning rise	10766 Feb 25 02:37	29° \approx 04'08		asc. node	10767 Feb 05 17:26	15° \approx 24'35	
direct	10766 Feb 28 00:08	28° \approx 17'48		morning rise	10767 Feb 09 04:54	13° \approx 02'35	
	10766 Mar 04 10:50	0° X		direct	10767 Feb 11 17:49	12° \approx 29'28	
morning max el	10766 Mar 06 10:48	1° X 43'09	18°15'59	morning max el	10767 Feb 18 03:45	15° \approx 49'52	17°52'49
desc. node	10766 Mar 24 13:07	27° X 56'31			10767 Feb 28 08:39	0° X	
morning set	10766 Mar 25 19:52	29° X 59'52		morning set	10767 Mar 07 08:09	11° X 36'18	
	10766 Mar 25 19:54	0° Y		desc. node	10767 Mar 11 09:52	18° X 24'20	
					10767 Mar 18 11:31	0° Y	
superior conj	10766 Apr 10 05:51	24° Y 25'54	-1°44'59	superior conj	10767 Mar 20 22:20	3° Y 56'42	-1°07'06
minimum elong	10766 Apr 09 20:24	23° Y 48'54	1°44'20	minimum elong	10767 Mar 20 15:04	3° Y 27'33	1°06'08
max. Earth dist.	10766 Apr 11 17:33	26° Y 45'32	1.45667 AU	max. Earth dist.	10767 Mar 25 12:51	11° Y 15'44	1.45176 AU
	10766 Apr 13 19:20	0° Z		evening rise	10767 Apr 05 20:37	28° Y 50'59	
evening rise	10766 Apr 26 06:21	19° Z 26'36			10767 Apr 06 14:37	0° Z	
	10766 May 03 00:47	0° II		greatest brilliancy	10767 Apr 20 20:18	21° Z 24'07	-0.6m
greatest brilliancy	10766 May 07 08:06	6° II 37'57	-0.8m		10767 Apr 26 23:56	0° II	
asc. node	10766 May 17 18:07	21° II 09'03		evening max el	10767 May 02 17:49	6° II 49'24	20°03'21
evening max el	10766 May 19 13:25	23° II 06'28	19°08'39	asc. node	10767 May 04 15:17	8° II 34'52	
retrograde	10766 May 26 11:23	26° II 58'22		retrograde	10767 May 10 09:52	11° II 13'56	
evening set	10766 May 29 23:10	25° II 47'29		evening set	10767 May 14 06:40	9° II 47'17	
inferior conj	10766 Jun 04 10:18	19° II 59'39	3°16'13	inferior conj	10767 May 19 14:18	3° II 45'58	3°15'43
minimum elong	10766 Jun 04 10:50	19° II 57'56	3°15'37	minimum elong	10767 May 19 13:43	3° II 47'55	3°15'11
min. Earth dist.	10766 Jun 05 22:42	18° II 02'23	0.66551 AU	min. Earth dist.	10767 May 20 12:16	2° II 31'33	0.67717 AU
morning rise	10766 Jun 09 21:57	13° II 38'19			10767 May 22 11:07	30° RZ	
direct	10766 Jun 16 03:23	10° II 55'36		morning rise	10767 May 24 20:28	27° Z 26'28	
desc. node	10766 Jun 20 13:30	12° II 03'06		direct	10767 May 30 14:41	24° Z 52'45	
morning max el	10766 Jun 28 21:12	18° II 32'22	26°10'03	desc. node	10767 Jun 07 10:31	28° Z 22'25	
	10766 Jul 08 13:15	0° Z			10767 Jun 09 08:03	0° II	
	10766 Jul 28 04:52	0° Q		morning max el	10767 Jun 11 07:00	1° II 53'22	24°48'10
morning set	10766 Aug 03 21:32	11° Q 57'37			10767 Jul 02 14:21	0° Z	
max. Earth dist.	10766 Aug 07 18:30	19° Q 19'00	1.35072 AU	morning set	10767 Jul 17 04:08	23° Z 56'56	
					10767 Jul 20 12:58	0° Q	
superior conj	10766 Aug 13 01:55	29° Q 54'07	-0°06'26	max. Earth dist.	10767 Jul 20 18:13	0° Q 23'59	1.37140 AU
minimum elong	10766 Aug 13 02:19	29° Q 56'06	0°06'41				
behind sun begin	10766 Aug 12 20:48	29° Q 28'01		superior conj	10767 Jul 27 11:38	13° Q 07'52	-0°39'00
behind sun end	10766 Aug 13 07:49	0° R 24'13		minimum elong	10767 Jul 27 14:10	13° Q 20'14	0°38'58
	10766 Aug 13 03:04	0° R		asc. node	10767 Jul 31 14:35	21° Q 17'40	
asc. node	10766 Aug 13 17:43	1° R 14'58		evening rise	10767 Aug 04 22:02	29° Q 57'44	
evening rise	10766 Aug 20 18:25	15° R 51'02			10767 Aug 04 22:30	0° R	
	10766 Aug 27 22:32	0° Q		evening max el	10767 Aug 21 19:56	27° R 39'52	19°26'47
evening max el	10766 Sep 08 07:27	16° Q 20'45	20°35'55		10767 Aug 24 13:31	0° Q	
desc. node	10766 Sep 16 11:31	21° Q 31'14		retrograde	10767 Aug 31 09:04	2° Q 24'24	
retrograde	10766 Sep 19 13:33	21° Q 55'52		evening set	10767 Sep 02 05:14	2° Q 14'36	
evening set	10766 Sep 21 16:34	21° Q 44'45		desc. node	10767 Sep 03 08:49	1° Q 59'02	
inferior conj	10766 Sep 30 19:22	17° Q 48'40	-4°10'15		10767 Sep 07 21:35	30° RR	
minimum elong	10766 Sep 30 09:30	18° Q 02'54	4°07'13	inferior conj	10767 Sep 10 22:08	28° R 08'14	-2°20'28
min. Earth dist.	10766 Oct 01 22:11	17° Q 09'57	0.54699 AU	minimum elong	10767 Sep 10 15:53	28° R 18'19	2°18'10
morning rise	10766 Oct 09 02:08	13° Q 48'44		min. Earth dist.	10767 Sep 13 09:37	26° R 32'40	0.55615 AU
direct	10766 Oct 13 07:43	13° Q 10'14		morning rise	10767 Sep 19 00:04	23° R 37'39	
morning max el	10766 Oct 26 14:17	19° Q 35'35	23°25'23	direct	10767 Sep 24 01:33	22° R 39'50	
	10766 Nov 04 06:21	0° R		morning max el	10767 Oct 08 01:27	29° R 42'07	25°11'07
asc. node	10766 Nov 09 18:22	8° R 49'44			10767 Oct 08 08:55	0° Q	
morning set	10766 Nov 19 02:59	27° R 12'25		asc. node	10767 Oct 27 15:16	27° Q 49'46	
	10766 Nov 20 10:18	0° X			10767 Oct 28 18:28	0° R	
superior conj	10766 Nov 26 01:01	12° X 09'33	1°39'23	morning set	10767 Nov 03 14:39	11° R 57'23	
minimum elong	10766 Nov 26 01:22	12° X 11'29	1°39'55				

superior conj	10767 Nov 10 10:22	26° \mathbb{M} 53'39	1°38'19	superior conj	10768 Oct 24 21:47	11° \mathbb{M} 40'41	1°31'24
minimum elong	10767 Nov 10 09:37	26° \mathbb{M} 49'30	1°38'45	minimum elong	10768 Oct 24 20:09	11° \mathbb{M} 31'37	1°31'36
	10767 Nov 11 20:18	0° \mathbb{X}		max. Earth dist.	10768 Oct 25 07:46	12° \mathbb{M} 36'10	1.31566 AU
max. Earth dist.	10767 Nov 11 23:41	0° \mathbb{X} 18'29	1.32177 AU	evening rise	10768 Oct 31 18:30	26° \mathbb{M} 40'26	
evening rise	10767 Nov 17 14:43	12° \mathbb{X} 17'54			10768 Nov 02 08:41	0° \mathbb{X}	
	10767 Nov 26 20:02	0° \mathbb{Z}		desc. node	10768 Nov 16 03:44	25° \mathbb{X} 11'38	
desc. node	10767 Nov 30 06:36	5° \mathbb{Z} 54'37			10768 Nov 19 07:38	0° \mathbb{Z}	
	10767 Dec 17 17:34	0° \approx		evening max el	10768 Dec 01 16:31	15° \mathbb{Z} 02'50	27°06'02
evening max el	10767 Dec 20 10:35	2° \approx 44'01	27°30'26	retrograde	10768 Dec 15 14:17	22° \mathbb{Z} 13'50	
retrograde	10768 Jan 03 06:14	10° \approx 02'48		evening set	10768 Dec 22 12:09	20° \mathbb{Z} 08'42	
evening set	10768 Jan 10 06:22	7° \approx 39'32		min. Earth dist.	10768 Dec 26 07:02	17° \mathbb{Z} 26'48	0.60537 AU
min. Earth dist.	10768 Jan 13 23:51	4° \approx 37'11	0.62618 AU	inferior conj	10768 Dec 29 10:26	14° \mathbb{Z} 48'21	-3°28'49
inferior conj	10768 Jan 16 20:35	1° \approx 52'41	-2°12'43	minimum elong	10768 Dec 29 17:24	14° \mathbb{Z} 33'40	3°25'50
minimum elong	10768 Jan 17 00:59	1° \approx 42'05	2°10'27	morning rise	10769 Jan 06 01:18	9° \mathbb{Z} 59'18	
	10768 Jan 18 21:00	30° \mathbb{R} \mathbb{Z}		direct	10769 Jan 08 04:34	9° \mathbb{Z} 41'13	
morning rise	10768 Jan 23 21:59	26° \mathbb{Z} 43'47		asc. node	10769 Jan 09 11:48	9° \mathbb{Z} 48'10	
asc. node	10768 Jan 23 14:39	26° \mathbb{Z} 50'29		morning max el	10769 Jan 15 11:50	13° \mathbb{Z} 20'18	18°00'11
direct	10768 Jan 26 04:34	26° \mathbb{Z} 19'59			10769 Jan 26 18:04	0° \approx	
morning max el	10768 Feb 01 21:12	29° \mathbb{Z} 45'10	17°47'11	morning set	10769 Jan 31 02:26	7° \approx 56'57	
	10768 Feb 02 03:08	0° \approx					
morning set	10768 Feb 17 20:28	24° \approx 21'49		superior conj	10769 Feb 10 05:02	26° \approx 18'45	0°14'47
	10768 Feb 21 01:31	0° \mathbb{X}		minimum elong	10769 Feb 10 06:16	26° \approx 24'09	0°14'57
desc. node	10768 Feb 26 06:36	9° \mathbb{X} 00'22		behind sun begin	10769 Feb 10 03:26	26° \approx 11'41	
				behind sun end	10769 Feb 10 09:06	26° \approx 36'38	
superior conj	10768 Feb 29 13:15	14° \mathbb{X} 32'20	-0°24'36	desc. node	10769 Feb 12 03:22	29° \approx 41'14	
minimum elong	10768 Feb 29 10:48	14° \mathbb{X} 22'06	0°24'01		10769 Feb 12 07:41	0° \mathbb{X}	
max. Earth dist.	10768 Mar 07 05:59	25° \mathbb{X} 31'10	1.44005 AU	max. Earth dist.	10769 Feb 17 19:21	9° \mathbb{X} 18'21	1.42274 AU
	10768 Mar 10 01:21	0° \mathbb{Y}		evening rise	10769 Feb 23 10:35	18° \mathbb{X} 28'09	
evening rise	10768 Mar 15 09:13	8° \mathbb{Y} 20'03			10769 Mar 02 20:42	0° \mathbb{Y}	
	10768 Mar 29 20:26	0° \mathbb{B}			10769 Mar 24 12:15	0° \mathbb{B}	
evening max el	10768 Apr 14 16:36	20° \mathbb{B} 33'16	21°11'11	evening max el	10769 Mar 28 10:28	4° \mathbb{B} 18'50	22°27'59
asc. node	10768 Apr 20 12:30	24° \mathbb{B} 58'53		retrograde	10769 Apr 07 05:22	10° \mathbb{B} 05'58	
retrograde	10768 Apr 23 08:23	25° \mathbb{B} 37'49		asc. node	10769 Apr 07 09:44	10° \mathbb{B} 05'49	
evening set	10768 Apr 27 15:13	23° \mathbb{B} 55'21		evening set	10769 Apr 11 23:11	8° \mathbb{B} 08'16	
inferior conj	10768 May 02 21:52	17° \mathbb{B} 42'19	3°03'39	inferior conj	10769 Apr 17 06:58	1° \mathbb{B} 45'53	2°41'21
minimum elong	10768 May 02 20:25	17° \mathbb{B} 47'23	3°03'03	minimum elong	10769 Apr 17 04:57	1° \mathbb{B} 52'55	2°40'39
min. Earth dist.	10768 May 03 06:17	17° \mathbb{B} 13'06	0.68424 AU	min. Earth dist.	10769 Apr 17 02:38	2° \mathbb{B} 01'00	0.68676 AU
morning rise	10768 May 08 01:23	11° \mathbb{B} 26'54			10769 Apr 18 13:42	30° \mathbb{R} \mathbb{Y}	
direct	10768 May 13 06:42	9° \mathbb{B} 09'26		morning rise	10769 Apr 22 10:35	25° \mathbb{Y} 35'55	
morning max el	10768 May 23 16:44	15° \mathbb{B} 21'19	23°18'43	direct	10769 Apr 27 02:22	23° \mathbb{Y} 38'56	
desc. node	10768 May 24 07:27	15° \mathbb{B} 59'00		morning max el	10769 May 06 05:36	28° \mathbb{Y} 58'32	21°50'55
	10768 Jun 04 16:08	0° \mathbb{I}			10769 May 07 05:29	0° \mathbb{B}	
	10768 Jun 24 13:33	0° \mathbb{E}		desc. node	10769 May 11 04:18	4° \mathbb{B} 32'12	
morning set	10768 Jun 27 12:28	4° \mathbb{E} 53'35			10769 May 29 08:28	0° \mathbb{I}	
max. Earth dist.	10768 Jul 01 15:06	11° \mathbb{E} 54'16	1.39428 AU	morning set	10769 Jun 07 18:39	14° \mathbb{I} 39'01	
				max. Earth dist.	10769 Jun 13 15:48	24° \mathbb{I} 14'15	1.41661 AU
superior conj	10768 Jul 09 07:04	25° \mathbb{E} 39'48	-1°12'22		10769 Jun 17 02:01	0° \mathbb{E}	
minimum elong	10768 Jul 09 11:59	26° \mathbb{E} 02'34	1°12'09				
	10768 Jul 11 14:45	0° \mathbb{Q}		superior conj	10769 Jun 21 07:46	7° \mathbb{E} 19'36	-1°42'57
asc. node	10768 Jul 17 11:27	11° \mathbb{Q} 13'15		minimum elong	10769 Jun 21 14:13	7° \mathbb{E} 47'56	1°42'50
evening rise	10768 Jul 18 17:52	13° \mathbb{Q} 40'00		evening rise	10769 Jul 02 02:14	26° \mathbb{E} 48'43	
	10768 Jul 27 15:31	0° \mathbb{P}			10769 Jul 03 19:48	0° \mathbb{Q}	
evening max el	10768 Aug 03 20:26	9° \mathbb{P} 43'57	18°38'56	asc. node	10769 Jul 04 08:21	0° \mathbb{Q} 57'35	
retrograde	10768 Aug 11 22:10	13° \mathbb{P} 46'17		evening max el	10769 Jul 18 05:05	22° \mathbb{Q} 24'51	18°11'48
evening set	10768 Aug 13 22:02	13° \mathbb{P} 32'19		retrograde	10769 Jul 25 06:24	25° \mathbb{Q} 59'19	
desc. node	10768 Aug 20 06:06	10° \mathbb{P} 18'03		evening set	10769 Jul 27 13:26	25° \mathbb{Q} 37'15	
inferior conj	10768 Aug 21 20:42	9° \mathbb{P} 06'56	-0°29'52	inferior conj	10769 Aug 03 17:01	20° \mathbb{Q} 51'09	1°00'49
minimum elong	10768 Aug 21 19:30	9° \mathbb{P} 09'12	0°29'39	minimum elong	10769 Aug 03 18:54	20° \mathbb{Q} 46'59	0°59'45
min. Earth dist.	10768 Aug 25 01:48	6° \mathbb{P} 42'57	0.57294 AU	min. Earth dist.	10769 Aug 07 01:03	17° \mathbb{Q} 56'24	0.59427 AU
morning rise	10768 Aug 29 13:32	3° \mathbb{P} 58'55		desc. node	10769 Aug 07 03:20	17° \mathbb{Q} 51'38	
direct	10768 Sep 04 09:14	2° \mathbb{P} 35'03		morning rise	10769 Aug 10 21:10	15° \mathbb{Q} 10'10	
morning max el	10768 Sep 18 16:35	10° \mathbb{P} 04'54	26°40'04	direct	10769 Aug 17 06:21	13° \mathbb{Q} 16'59	
	10768 Oct 03 22:25	0° \mathbb{A}		morning max el	10769 Aug 31 14:58	21° \mathbb{Q} 06'44	27°37'45
asc. node	10768 Oct 13 12:06	17° \mathbb{A} 14'55			10769 Sep 08 08:21	0° \mathbb{P}	
morning set	10768 Oct 18 00:46	26° \mathbb{A} 34'54			10769 Sep 26 20:44	0° \mathbb{A}	
	10768 Oct 19 14:53	0° \mathbb{M}		asc. node	10769 Sep 30 08:52	6° \mathbb{A} 58'09	
				morning set	10769 Oct 02 07:33	11° \mathbb{A} 00'08	

max. Earth dist.	10769 Oct 08 17:10	24° Ω 54'40	1.31442 AU	asc. node	10770 Sep 17 05:38	26° Π 53'51	
					10770 Sep 18 17:11	0° Ω	
superior conj	10769 Oct 09 09:23	26° Ω 24'51	1°18'57	max. Earth dist.	10770 Sep 21 24:00	7° Ω 03'22	1.31810 AU
minimum elong	10769 Oct 09 07:14	26° Ω 12'55	1°18'52				
	10769 Oct 11 00:03	0° Π		superior conj	10770 Sep 23 19:23	11° Ω 01'02	1°01'13
evening rise	10769 Oct 16 02:48	11° Π 13'14		minimum elong	10770 Sep 23 17:11	10° Ω 48'53	1°00'54
	10769 Oct 25 13:54	0° \mathcal{A}		evening rise	10770 Sep 30 13:37	25° Ω 50'54	
desc. node	10769 Nov 03 00:55	13° \mathcal{A} 44'52			10770 Oct 02 12:29	0° Π	
evening max el	10769 Nov 13 14:44	26° \mathcal{A} 29'50	26°07'32		10770 Oct 19 21:49	0° \mathcal{A}	
	10769 Nov 17 20:16	0° \mathcal{B}		desc. node	10770 Oct 20 22:08	1° \mathcal{A} 17'35	
retrograde	10769 Nov 27 12:39	3° \mathcal{B} 33'35		evening max el	10770 Oct 26 04:52	7° \mathcal{A} 07'44	24°41'15
evening set	10769 Dec 03 22:31	1° \mathcal{B} 55'29		retrograde	10770 Nov 08 23:48	14° \mathcal{A} 02'44	
	10769 Dec 07 04:43	30° \mathcal{R} \mathcal{A}		evening set	10770 Nov 14 09:16	12° \mathcal{A} 57'51	
min. Earth dist.	10769 Dec 08 03:39	29° \mathcal{A} 20'31	0.58427 AU	min. Earth dist.	10770 Nov 19 16:18	10° \mathcal{A} 11'19	0.56539 AU
inferior conj	10769 Dec 11 06:27	27° \mathcal{A} 04'02	-4°40'33	inferior conj	10770 Nov 22 06:11	8° \mathcal{A} 32'38	-5°32'53
minimum elong	10769 Dec 11 14:29	26° \mathcal{A} 49'18	4°37'57	minimum elong	10770 Nov 22 11:24	8° \mathcal{A} 24'18	5°31'46
morning rise	10769 Dec 19 09:02	22° \mathcal{A} 37'30		morning rise	10770 Nov 30 15:46	4° \mathcal{A} 27'55	
direct	10769 Dec 21 13:14	22° \mathcal{A} 21'51		direct	10770 Dec 03 02:54	4° \mathcal{A} 11'15	
asc. node	10769 Dec 27 08:53	24° \mathcal{A} 21'29		morning max el	10770 Dec 12 17:41	8° \mathcal{A} 46'46	19°28'27
morning max el	10769 Dec 29 19:56	26° \mathcal{A} 24'15	18°33'22	asc. node	10770 Dec 14 05:55	10° \mathcal{A} 20'05	
	10770 Jan 01 23:42	0° \mathcal{B}			10770 Dec 26 15:25	0° \mathcal{B}	
morning set	10770 Jan 14 20:34	22° \mathcal{B} 04'28		morning set	10770 Dec 29 22:57	6° \mathcal{B} 33'07	
	10770 Jan 18 23:05	0° \approx					
superior conj	10770 Jan 23 18:04	9° \approx 04'20	0°47'13	superior conj	10771 Jan 06 23:28	22° \mathcal{B} 35'15	1°11'35
minimum elong	10770 Jan 23 20:57	9° \approx 17'40	0°47'16	minimum elong	10771 Jan 07 02:26	22° \mathcal{B} 49'46	1°11'46
desc. node	10770 Jan 30 00:09	20° \approx 22'42			10771 Jan 10 20:00	0° \approx	
max. Earth dist.	10770 Jan 31 03:44	22° \approx 23'02	1.40176 AU	max. Earth dist.	10771 Jan 13 09:27	4° \approx 45'39	1.37963 AU
evening rise	10770 Feb 04 08:08	29° \approx 30'03		desc. node	10771 Jan 16 21:01	11° \approx 01'17	
	10770 Feb 04 15:19	0° \mathcal{H}		evening rise	10771 Jan 17 02:57	11° \approx 27'25	
	10770 Feb 24 07:46	0° \mathcal{Y}			10771 Jan 28 08:20	0° \mathcal{H}	
evening max el	10770 Mar 11 01:00	18° \mathcal{Y} 06'11	23°48'27	evening max el	10771 Feb 19 17:06	0° \mathcal{Y}	
retrograde	10770 Mar 21 23:28	24° \mathcal{Y} 32'49		retrograde	10771 Feb 21 14:20	1° \mathcal{Y} 55'48	25°06'06
asc. node	10770 Mar 25 06:59	23° \mathcal{Y} 41'12		asc. node	10771 Mar 05 13:34	8° \mathcal{Y} 52'46	
evening set	10770 Mar 27 04:59	22° \mathcal{Y} 21'16		evening set	10771 Mar 11 07:05	6° \mathcal{Y} 29'51	
min. Earth dist.	10770 Mar 31 23:10	16° \mathcal{Y} 49'08	0.68481 AU	min. Earth dist.	10771 Mar 12 04:14	5° \mathcal{Y} 41'42	
inferior conj	10770 Apr 01 15:39	15° \mathcal{Y} 52'53	2°09'30	inferior conj	10771 Mar 15 17:46	1° \mathcal{Y} 32'38	0.67862 AU
minimum elong	10770 Apr 01 13:28	16° \mathcal{Y} 00'21	2°08'46	minimum elong	10771 Mar 16 22:06	29° \mathcal{H} 59'53	1°28'19
morning rise	10770 Apr 06 21:59	9° \mathcal{Y} 49'28			10771 Mar 16 20:14	0° \mathcal{Y} 06'00	1°27'42
direct	10770 Apr 11 00:31	8° \mathcal{Y} 14'20			10771 Mar 16 22:04	30° \mathcal{R} \mathcal{H}	
morning max el	10770 Apr 19 00:41	12° \mathcal{Y} 47'09	20°32'00	morning rise	10771 Mar 22 09:42	24° \mathcal{H} 04'23	
desc. node	10770 Apr 28 01:07	23° \mathcal{Y} 46'17		direct	10771 Mar 25 23:55	22° \mathcal{H} 50'11	
	10770 May 02 11:23	0° \mathcal{B}		morning max el	10771 Apr 02 03:29	26° \mathcal{H} 47'03	19°26'35
morning set	10770 May 18 01:26	23° \mathcal{B} 23'36			10771 Apr 05 01:50	0° \mathcal{Y}	
	10770 May 22 06:54	0° Π		desc. node	10771 Apr 14 21:54	13° \mathcal{Y} 30'16	
max. Earth dist.	10770 May 26 22:56	7° Π 26'04	1.43564 AU	greatest brilliancy	10771 Apr 14 20:40	13° \mathcal{Y} 25'45	-0.7m
					10771 Apr 25 19:10	0° \mathcal{B}	
superior conj	10770 Jun 02 09:32	17° Π 58'32	-2°05'25	morning set	10771 Apr 27 00:54	1° \mathcal{B} 54'22	
minimum elong	10770 Jun 02 14:40	18° Π 19'55	2°05'41	max. Earth dist.	10771 May 09 12:22	21° \mathcal{B} 20'19	1.44928 AU
	10770 Jun 09 11:43	0° \mathcal{B}					
evening rise	10770 Jun 14 18:36	9° \mathcal{B} 12'45		superior conj	10771 May 13 11:23	27° \mathcal{B} 37'14	-2°13'03
asc. node	10770 Jun 21 05:20	20° \mathcal{B} 25'44		minimum elong	10771 May 13 10:42	27° \mathcal{B} 34'31	2°13'30
	10770 Jun 27 05:39	0° Ω			10771 May 14 23:04	0° Π	
evening max el	10770 Jul 01 18:00	5° Ω 32'54	18°04'16	evening rise	10771 May 27 14:05	20° Π 40'55	
retrograde	10770 Jul 08 06:06	8° Ω 54'31			10771 Jun 02 04:16	0° \mathcal{B}	
evening set	10770 Jul 10 20:59	8° Ω 21'10		asc. node	10771 Jun 08 02:21	9° \mathcal{B} 31'11	
inferior conj	10770 Jul 17 08:21	3° Ω 15'47	2°06'00	evening max el	10771 Jun 15 07:47	18° \mathcal{B} 58'56	18°15'24
minimum elong	10770 Jul 17 11:07	3° Ω 08'47	2°04'43	retrograde	10771 Jun 21 16:39	22° \mathcal{B} 21'44	
min. Earth dist.	10770 Jul 20 09:09	0° Ω 12'59	0.61696 AU	evening set	10771 Jun 24 15:31	21° \mathcal{B} 34'46	
	10770 Jul 20 14:35	30° \mathcal{R} \mathcal{B}		inferior conj	10771 Jun 30 14:33	16° \mathcal{B} 11'50	2°47'50
morning rise	10770 Jul 23 22:53	27° \mathcal{B} 12'20		minimum elong	10771 Jun 30 16:50	16° \mathcal{B} 05'22	2°46'49
desc. node	10770 Jul 25 00:32	26° \mathcal{B} 31'08		min. Earth dist.	10771 Jul 03 02:33	13° \mathcal{B} 22'39	0.63845 AU
direct	10770 Jul 30 15:02	24° \mathcal{B} 52'42		morning rise	10771 Jul 06 16:43	9° \mathcal{B} 56'07	
	10770 Aug 10 16:17	0° Ω		desc. node	10771 Jul 11 21:43	7° \mathcal{B} 26'06	
morning max el	10770 Aug 13 19:58	2° Ω 54'10	27°57'20	direct	10771 Jul 13 09:05	7° \mathcal{B} 18'48	
	10770 Sep 02 20:07	0° Π		morning max el	10771 Jul 27 05:04	15° \mathcal{B} 21'00	27°39'23
morning set	10770 Sep 16 09:08	25° Π 08'03			10771 Aug 08 04:32	0° Ω	
					10771 Aug 26 12:52	0° Π	

morning set	10771 Aug 31 03:06	8° \mathbb{M} 51'08		morning set	10772 Aug 13 10:28	22° \mathcal{Q} 02'00	
asc. node	10771 Sep 04 02:25	16° \mathbb{M} 56'32		max. Earth dist.	10772 Aug 17 15:13	0° \mathbb{M} 14'41	1.34072 AU
max. Earth dist.	10771 Sep 05 00:20	18° \mathbb{M} 51'16	1.32685 AU		10772 Aug 17 12:17	0° \mathbb{M}	
				asc. node	10772 Aug 20 23:14	7° \mathbb{M} 02'22	
superior conj	10771 Sep 08 01:48	25° \mathbb{M} 22'37	0°38'27	superior conj	10772 Aug 22 02:26	9° \mathbb{M} 23'44	0°11'07
minimum elong	10771 Sep 08 00:05	25° \mathbb{M} 13'23	0°38'01	minimum elong	10772 Aug 22 01:51	9° \mathbb{M} 20'43	0°10'45
	10771 Sep 10 05:04	0° \mathcal{A}		behind sun begin	10772 Aug 21 21:34	8° \mathbb{M} 58'19	
evening rise	10771 Sep 15 01:01	10° \mathcal{A} 27'08		behind sun end	10772 Aug 22 06:09	9° \mathbb{M} 43'08	
	10771 Sep 24 23:50	0° \mathbb{M}		evening rise	10772 Aug 29 11:10	24° \mathbb{M} 56'58	
evening max el	10771 Oct 07 15:30	17° \mathbb{M} 16'46	23°01'16		10772 Aug 31 21:36	0° \mathcal{A}	
desc. node	10771 Oct 07 19:24	17° \mathbb{M} 26'10		evening max el	10772 Sep 18 07:29	27° \mathcal{A} 32'17	21°24'38
retrograde	10771 Oct 20 22:07	23° \mathbb{M} 53'19			10772 Sep 21 02:54	0° \mathbb{M}	
evening set	10771 Oct 24 21:12	23° \mathbb{M} 19'09		desc. node	10772 Sep 23 16:42	1° \mathbb{M} 42'03	
min. Earth dist.	10771 Nov 01 00:35	20° \mathbb{M} 02'52	0.55174 AU	retrograde	10772 Sep 30 10:37	3° \mathbb{M} 33'42	
inferior conj	10771 Nov 02 10:42	19° \mathbb{M} 13'42	-5°44'49	evening set	10772 Oct 03 01:45	3° \mathbb{M} 17'49	
minimum elong	10771 Nov 02 08:22	19° \mathbb{M} 17'04	5°44'18		10772 Oct 11 00:26	30° \mathbb{R} \mathcal{A}	
morning rise	10771 Nov 10 21:15	15° \mathbb{M} 23'56		inferior conj	10772 Oct 12 03:38	29° \mathcal{A} 22'04	-5°00'02
direct	10771 Nov 13 22:13	15° \mathbb{M} 02'11		minimum elong	10772 Oct 11 18:30	29° \mathcal{A} 34'50	4°57'51
morning max el	10771 Nov 25 02:02	20° \mathbb{M} 18'45	20°46'18	min. Earth dist.	10772 Oct 12 07:46	29° \mathcal{A} 16'16	0.54611 AU
asc. node	10771 Dec 01 02:54	27° \mathbb{M} 27'45		morning rise	10772 Oct 20 12:05	25° \mathcal{A} 32'14	
	10771 Dec 02 20:05	0° \mathcal{A}		direct	10772 Oct 24 07:06	25° \mathcal{A} 01'10	
morning set	10771 Dec 14 06:38	21° \mathcal{A} 14'25			10772 Nov 04 18:01	0° \mathbb{M}	
	10771 Dec 18 11:38	0° \mathcal{B}		morning max el	10772 Nov 05 21:21	1° \mathbb{M} 01'22	22°23'55
superior conj	10771 Dec 21 16:47	6° \mathcal{B} 38'49	1°28'02	asc. node	10772 Nov 16 23:51	15° \mathbb{M} 29'11	
minimum elong	10771 Dec 21 18:59	6° \mathcal{B} 50'02	1°28'25		10772 Nov 24 19:34	0° \mathcal{A}	
max. Earth dist.	10771 Dec 26 17:46	16° \mathcal{B} 43'26	1.35877 AU	morning set	10772 Nov 27 17:21	6° \mathcal{A} 01'50	
evening rise	10771 Dec 30 16:25	24° \mathcal{B} 12'54					
	10772 Jan 02 20:54	0° \approx		superior conj	10772 Dec 04 18:29	21° \mathcal{A} 04'48	1°37'11
desc. node	10772 Jan 03 17:56	1° \approx 32'58		minimum elong	10772 Dec 04 19:32	21° \mathcal{A} 10'22	1°37'42
	10772 Jan 21 23:11	0° \mathcal{H}		max. Earth dist.	10772 Dec 08 09:01	28° \mathcal{A} 37'14	1.34103 AU
evening max el	10772 Feb 04 03:52	15° \mathcal{H} 44'32	26°13'41		10772 Dec 09 01:10	0° \mathcal{B}	
retrograde	10772 Feb 16 22:37	22° \mathcal{H} 59'46		evening rise	10772 Dec 12 20:49	7° \mathcal{B} 36'42	
evening set	10772 Feb 23 03:49	20° \mathcal{H} 29'00		desc. node	10772 Dec 20 14:54	21° \mathcal{B} 52'50	
asc. node	10772 Feb 27 01:30	16° \mathcal{H} 26'35			10772 Dec 25 11:11	0° \approx	
min. Earth dist.	10772 Feb 27 08:12	16° \mathcal{H} 06'25	0.66844 AU	evening max el	10773 Jan 16 17:27	29° \approx 23'28	27°03'43
inferior conj	10772 Feb 29 00:20	14° \mathcal{H} 03'00	0°37'48		10773 Jan 17 08:54	0° \mathcal{H}	
minimum elong	10772 Feb 28 23:23	14° \mathcal{H} 05'57	0°37'37	retrograde	10773 Jan 30 01:42	6° \mathcal{H} 45'53	
morning rise	10772 Mar 05 19:43	8° \mathcal{H} 17'12		evening set	10773 Feb 05 17:10	4° \mathcal{H} 12'14	
direct	10772 Mar 08 22:55	7° \mathcal{H} 21'32		min. Earth dist.	10773 Feb 09 16:07	0° \mathcal{H} 23'26	0.65456 AU
morning max el	10772 Mar 15 13:29	10° \mathcal{H} 54'57	18°36'59		10773 Feb 10 00:33	30° \mathbb{R} \approx	
	10772 Mar 29 11:09	0° \mathcal{Y}		inferior conj	10773 Feb 11 20:06	27° \approx 56'21	-0°22'00
desc. node	10772 Mar 31 18:40	3° \mathcal{Y} 36'14		minimum elong	10773 Feb 11 20:43	27° \approx 54'35	0°21'23
morning set	10772 Apr 05 16:27	11° \mathcal{Y} 18'15		asc. node	10773 Feb 12 22:46	26° \approx 41'41	
	10772 Apr 17 14:44	0° \mathcal{B}		morning rise	10773 Feb 18 01:38	22° \approx 22'46	
superior conj	10772 Apr 21 20:23	6° \mathcal{B} 37'26	-2°00'51	direct	10773 Feb 20 19:22	21° \approx 42'22	
minimum elong	10772 Apr 21 12:40	6° \mathcal{B} 07'14	2°00'41	morning max el	10773 Feb 27 04:39	25° \approx 04'08	18°04'04
max. Earth dist.	10772 Apr 21 06:36	5° \mathcal{B} 43'30	1.45611 AU		10773 Mar 03 08:44	0° \mathcal{H}	
	10772 May 06 16:10	0° \mathbb{I}		morning set	10773 Mar 17 12:21	22° \mathcal{H} 07'10	
evening rise	10772 May 07 09:40	1° \mathbb{I} 09'42		desc. node	10773 Mar 18 15:24	23° \mathcal{H} 57'29	
greatest brilliancy	10772 May 15 09:48	13° \mathbb{I} 54'08	-0.9m		10773 Mar 22 08:39	0° \mathcal{Y}	
asc. node	10772 May 24 23:27	28° \mathbb{I} 06'34		superior conj	10773 Apr 01 04:47	15° \mathcal{Y} 42'33	-1°30'07
	10772 May 26 11:23	0° \mathcal{B}		minimum elong	10773 Mar 31 19:35	15° \mathcal{Y} 06'16	1°29'12
evening max el	10772 May 28 19:34	2° \mathcal{B} 36'03	18°44'21	max. Earth dist.	10773 Apr 04 02:48	20° \mathcal{Y} 17'41	1.45548 AU
retrograde	10772 Jun 04 10:15	6° \mathcal{B} 13'25			10773 Apr 10 08:06	0° \mathcal{B}	
evening set	10772 Jun 07 17:16	5° \mathcal{B} 11'23		evening rise	10773 Apr 17 07:49	10° \mathcal{B} 49'33	
	10772 Jun 12 22:47	30° \mathbb{R} \mathbb{I}			10773 Apr 29 20:38	0° \mathbb{I}	
inferior conj	10772 Jun 13 07:46	29° \mathbb{I} 32'16	3°10'23	greatest brilliancy	10773 Apr 30 08:24	0° \mathbb{I} 43'52	-0.7m
minimum elong	10772 Jun 13 08:59	29° \mathbb{I} 28'30	3°09'41	asc. node	10773 May 11 20:37	16° \mathbb{I} 01'13	
min. Earth dist.	10772 Jun 15 04:49	27° \mathbb{I} 13'08	0.65685 AU	evening max el	10773 May 12 03:03	16° \mathbb{I} 17'37	19°30'06
morning rise	10772 Jun 18 23:57	23° \mathbb{I} 11'47		retrograde	10773 May 19 07:42	20° \mathbb{I} 21'55	
direct	10772 Jun 25 10:42	20° \mathbb{I} 27'57		evening set	10773 May 22 23:19	19° \mathbb{I} 04'08	
desc. node	10772 Jun 27 18:50	20° \mathbb{I} 46'48		inferior conj	10773 May 28 08:36	13° \mathbb{I} 10'18	3°17'29
morning max el	10772 Jul 08 15:43	28° \mathbb{I} 17'30	26°49'41	minimum elong	10773 May 28 08:39	13° \mathbb{I} 10'09	3°16'57
	10772 Jul 10 06:52	0° \mathcal{B}		min. Earth dist.	10773 May 29 14:42	11° \mathbb{I} 31'02	0.67106 AU
	10772 Jul 31 23:03	0° \mathcal{Q}		morning rise	10773 Jun 02 17:36	6° \mathbb{I} 49'37	































































































































direct	10773 Jun 08 18:33	4° Π 09'57		desc. node	10774 Jun 01 12:52	23° \mathcal{B} 04'19	
desc. node	10773 Jun 14 15:53	6° Π 09'15		morning max el	10774 Jun 03 11:50	24° \mathcal{B} 57'13	24°10'32
morning max el	10773 Jun 21 02:07	11° Π 32'21	25°36'50		10774 Jun 08 01:11	0° Π	
	10773 Jul 05 20:07	0° \mathcal{E}			10774 Jun 29 07:22	0° \mathcal{E}	
	10773 Jul 24 15:04	0° Ω		morning set	10774 Jul 09 01:15	16° \mathcal{E} 05'22	
morning set	10773 Jul 27 03:28	4° Ω 30'50		max. Earth dist.	10774 Jul 12 17:59	22° \mathcal{E} 35'16	1.38098 AU
max. Earth dist.	10773 Jul 30 20:04	11° Ω 22'04	1.35918 AU		10774 Jul 16 19:30	0° Ω	
superior conj	10773 Aug 05 18:32	22° Ω 57'10	-0°19'58	superior conj	10774 Jul 19 22:39	5° Ω 54'13	-0°53'13
minimum elong	10773 Aug 05 19:46	23° Ω 03'21	0°20'06	minimum elong	10774 Jul 20 02:13	6° Ω 11'13	0°53'06
asc. node	10773 Aug 07 20:05	27° Ω 07'27		asc. node	10774 Jul 25 16:56	17° Ω 07'42	
	10773 Aug 09 05:53	0° \mathcal{N}		evening rise	10774 Jul 28 18:37	23° Ω 12'07	
evening rise	10773 Aug 13 17:53	9° \mathcal{N} 14'26			10774 Aug 01 06:12	0° \mathcal{N}	
	10773 Aug 24 22:16	0° \mathcal{L}		evening max el	10774 Aug 14 05:47	20° \mathcal{N} 03'16	19°03'48
evening max el	10773 Aug 31 11:52	8° \mathcal{L} 24'22	20°03'49	retrograde	10774 Aug 23 03:01	24° \mathcal{N} 28'51	
desc. node	10773 Sep 10 13:59	13° \mathcal{L} 37'28		evening set	10774 Aug 24 23:45	24° \mathcal{N} 17'57	
retrograde	10773 Sep 11 00:20	13° \mathcal{L} 37'58		desc. node	10774 Aug 28 11:17	23° \mathcal{N} 05'09	
evening set	10773 Sep 12 22:44	13° \mathcal{L} 28'09		inferior conj	10774 Sep 02 09:24	20° \mathcal{N} 04'00	-1°32'05
inferior conj	10773 Sep 21 22:50	9° \mathcal{L} 28'46	-3°25'44	minimum elong	10774 Sep 02 05:24	20° \mathcal{N} 10'52	1°30'39
minimum elong	10773 Sep 21 13:58	9° \mathcal{L} 42'04	3°22'41	min. Earth dist.	10774 Sep 05 06:13	18° \mathcal{N} 06'11	0.56246 AU
min. Earth dist.	10773 Sep 23 16:52	8° \mathcal{L} 25'46	0.54984 AU	morning rise	10774 Sep 10 07:58	15° \mathcal{N} 17'12	
morning rise	10773 Sep 30 04:01	5° \mathcal{L} 17'48		direct	10774 Sep 15 17:17	14° \mathcal{N} 09'14	
direct	10773 Oct 04 18:01	4° \mathcal{L} 32'14		morning max el	10774 Sep 29 21:48	21° \mathcal{N} 24'50	25°52'03
morning max el	10773 Oct 18 09:21	11° \mathcal{L} 13'34	24°11'22		10774 Oct 07 09:54	0° \mathcal{L}	
	10773 Nov 01 11:36	0° \mathcal{M}		asc. node	10774 Oct 21 17:36	23° \mathcal{L} 23'22	
asc. node	10773 Nov 03 20:46	4° \mathcal{M} 11'27			10774 Oct 25 01:00	0° \mathcal{M}	
morning set	10773 Nov 12 05:13	20° \mathcal{M} 50'06		morning set	10774 Oct 27 16:26	5° \mathcal{M} 33'04	
	10773 Nov 16 10:37	0° \mathcal{X}		superior conj	10774 Nov 03 12:15	20° \mathcal{M} 31'50	1°36'05
superior conj	10773 Nov 19 01:46	5° \mathcal{X} 45'13	1°39'41	minimum elong	10774 Nov 03 11:05	20° \mathcal{M} 25'25	1°36'25
minimum elong	10773 Nov 19 01:38	5° \mathcal{X} 44'29	1°40'11	max. Earth dist.	10774 Nov 04 13:47	22° \mathcal{M} 53'03	1.31856 AU
max. Earth dist.	10773 Nov 21 08:16	10° \mathcal{X} 40'12	1.32746 AU		10774 Nov 07 19:59	0° \mathcal{X}	
evening rise	10773 Nov 26 12:39	21° \mathcal{X} 30'01		evening rise	10774 Nov 10 12:48	5° \mathcal{X} 43'53	
	10773 Nov 30 20:41	0° \mathcal{Z}			10774 Nov 23 10:46	0° \mathcal{Z}	
desc. node	10773 Dec 07 11:55	11° \mathcal{Z} 55'12		desc. node	10774 Nov 24 09:00	1° \mathcal{Z} 31'34	
	10773 Dec 19 08:21	0° \approx		evening max el	10774 Dec 12 14:27	25° \mathcal{Z} 24'11	27°24'08
evening max el	10773 Dec 30 05:42	12° \approx 41'10	27°29'09		10774 Dec 18 09:33	0° \approx	
retrograde	10774 Jan 12 22:12	20° \approx 02'58		retrograde	10774 Dec 26 11:23	2° \approx 40'35	
evening set	10774 Jan 19 20:47	17° \approx 33'08		evening set	10775 Jan 02 11:36	0° \approx 23'32	
min. Earth dist.	10774 Jan 23 15:29	14° \approx 15'37	0.63737 AU		10775 Jan 03 01:43	30° \mathcal{R} \mathcal{Z}	
inferior conj	10774 Jan 26 06:44	11° \approx 33'57	-1°30'17	min. Earth dist.	10775 Jan 06 04:47	27° \mathcal{Z} 31'20	0.61750 AU
minimum elong	10774 Jan 26 09:37	11° \approx 26'33	1°28'37	inferior conj	10775 Jan 09 05:07	24° \mathcal{Z} 47'13	-2°44'54
asc. node	10774 Jan 30 19:58	7° \approx 27'37		minimum elong	10775 Jan 09 10:40	24° \mathcal{Z} 34'35	2°42'15
morning rise	10774 Feb 02 00:31	6° \approx 15'24		morning rise	10775 Jan 16 12:21	19° \mathcal{Z} 46'45	
direct	10774 Feb 04 10:32	5° \approx 46'38		asc. node	10775 Jan 17 17:08	19° \mathcal{Z} 30'15	
morning max el	10774 Feb 10 22:14	9° \approx 07'33	17°48'17	direct	10775 Jan 18 17:02	19° \mathcal{Z} 25'54	
	10774 Feb 24 23:50	0° \mathcal{H}		morning max el	10775 Jan 25 14:57	22° \mathcal{Z} 55'49	17°50'23
morning set	10774 Feb 27 11:36	4° \mathcal{H} 15'32			10775 Jan 31 04:11	0° \approx	
desc. node	10774 Mar 05 12:09	14° \mathcal{H} 29'34		morning set	10775 Feb 10 08:06	17° \approx 23'58	
superior conj	10774 Mar 12 05:55	25° \mathcal{H} 38'52	-0°49'05	desc. node	10775 Feb 20 08:53	5° \mathcal{H} 08'06	
minimum elong	10774 Mar 12 00:40	25° \mathcal{H} 17'29	0°48'14	superior conj	10775 Feb 21 07:36	6° \mathcal{H} 45'27	-0°07'13
	10774 Mar 14 22:28	0° \mathcal{Y}		minimum elong	10775 Feb 21 06:57	6° \mathcal{H} 42'41	0°06'51
max. Earth dist.	10774 Mar 17 21:47	4° \mathcal{Y} 44'51	1.44755 AU	behind sun begin	10775 Feb 20 23:08	6° \mathcal{H} 09'16	
evening rise	10774 Mar 27 19:23	20° \mathcal{Y} 11'01		behind sun end	10775 Feb 21 14:46	7° \mathcal{H} 16'03	
	10774 Apr 03 06:24	0° \mathcal{B}		max. Earth dist.	10775 Feb 28 12:57	18° \mathcal{H} 47'58	1.43321 AU
evening max el	10774 Apr 25 04:57	0° Π 00'28	20°30'45	evening rise	10775 Mar 07 11:52	29° \mathcal{H} 52'48	
	10774 Apr 25 04:46	0° Π			10775 Mar 07 13:42	0° \mathcal{Y}	
asc. node	10774 Apr 28 17:49	3° Π 02'35			10775 Mar 27 21:28	0° \mathcal{B}	
retrograde	10774 May 03 06:31	4° Π 41'37		evening max el	10775 Apr 08 01:20	13° \mathcal{B} 44'23	21°43'05
evening set	10774 May 07 07:30	3° Π 08'03		asc. node	10775 Apr 15 15:01	18° \mathcal{B} 55'46	
	10774 May 10 08:30	30° \mathcal{R} \mathcal{B}		retrograde	10775 Apr 17 04:40	19° \mathcal{B} 07'46	
inferior conj	10774 May 12 14:23	27° \mathcal{B} 01'13	3°11'54	evening set	10775 Apr 21 15:58	17° \mathcal{B} 18'49	
minimum elong	10774 May 12 13:24	27° \mathcal{B} 04'35	3°11'22	inferior conj	10775 Apr 26 22:50	11° \mathcal{B} 01'17	2°55'25
min. Earth dist.	10774 May 13 06:23	26° \mathcal{B} 06'15	0.68071 AU	minimum elong	10775 Apr 26 21:06	11° \mathcal{B} 07'21	2°54'46
morning rise	10774 May 17 19:05	20° \mathcal{B} 43'13		min. Earth dist.	10775 Apr 27 01:46	10° \mathcal{B} 51'06	0.68577 AU
direct	10774 May 23 07:49	18° \mathcal{B} 16'00					

morning rise	10775 May 02 02:03	4°♄47'47			10776 Apr 06 12:49	30°♄♂	
direct	10775 May 07 01:31	2°♄38'43		inferior conj	10776 Apr 10 07:58	25°♄06'37	2°29'02
morning max el	10775 May 16 22:31	8°♄29'02	22°40'42	minimum elong	10776 Apr 10 05:49	25°♄14'02	2°28'17
desc. node	10775 May 19 09:47	11°♄07'19		min. Earth dist.	10776 Apr 09 22:30	25°♄39'24	0.68641 AU
	10775 Jun 02 17:49	0°♄		morning rise	10776 Apr 15 12:23	18°♄59'05	
morning set	10775 Jun 19 22:48	26°♄32'57		direct	10776 Apr 19 22:31	17°♄11'09	
	10775 Jun 22 00:52	0°♄		morning max el	10776 Apr 28 13:30	22°♄09'54	21°15'53
max. Earth dist.	10775 Jun 24 15:20	4°♄23'05	1.40390 AU	desc. node	10776 May 05 06:38	29°♄59'18	
					10776 May 05 06:51	0°♄	
superior conj	10775 Jul 02 10:42	18°♄05'29	-1°25'57		10776 May 26 00:29	0°♄	
minimum elong	10775 Jul 02 16:28	18°♄31'36	1°25'44	morning set	10776 May 29 17:52	5°♄48'27	
	10775 Jul 08 21:09	0°♄		max. Earth dist.	10776 Jun 05 18:16	17°♄04'09	1.42521 AU
evening rise	10775 Jul 12 10:05	6°♄41'41					
asc. node	10775 Jul 12 13:49	6°♄59'20		superior conj	10776 Jun 13 02:02	29°♄20'04	-1°53'52
	10775 Jul 26 06:11	0°♄		minimum elong	10776 Jun 13 08:25	29°♄47'27	1°53'53
evening max el	10775 Jul 28 10:18	2°♄25'00	18°25'01		10776 Jun 13 11:20	0°♄	
retrograde	10775 Aug 05 00:22	6°♄13'34		evening rise	10776 Jun 24 12:10	19°♄32'08	
evening set	10775 Aug 07 03:00	5°♄56'42		asc. node	10776 Jun 28 10:44	26°♄37'13	
inferior conj	10775 Aug 14 17:25	1°♄22'52	0°11'32		10776 Jun 30 08:43	0°♄	
minimum elong	10775 Aug 14 17:49	1°♄22'02	0°11'04	evening max el	10776 Jul 10 21:18	15°♄18'46	18°06'22
transit middle	10775 Aug 14 17:49	1°♄22'02	0°11'04	retrograde	10776 Jul 17 15:29	18°♄45'35	
transit begin	10775 Aug 14 15:14	1°♄27'14		evening set	10776 Jul 20 01:59	18°♄18'57	
transit end	10775 Aug 14 20:24	1°♄16'51		inferior conj	10776 Jul 26 22:14	13°♄24'35	1°31'32
desc. node	10775 Aug 15 08:33	0°♄52'16		minimum elong	10776 Jul 27 00:43	13°♄18'46	1°30'16
	10775 Aug 16 10:22	30°♄♄		min. Earth dist.	10776 Jul 30 04:13	10°♄23'39	0.60395 AU
min. Earth dist.	10775 Aug 18 01:30	28°♄42'54	0.58161 AU	desc. node	10776 Aug 01 05:48	8°♄40'50	
morning rise	10775 Aug 22 05:06	25°♄59'39		morning rise	10776 Aug 02 20:35	7°♄33'03	
direct	10775 Aug 28 07:21	24°♄23'00		direct	10776 Aug 09 09:48	5°♄27'44	
	10775 Sep 09 10:14	0°♄		morning max el	10776 Aug 23 17:03	13°♄23'05	27°50'47
morning max el	10775 Sep 11 15:54	2°♄03'03	27°08'52		10776 Sep 05 23:25	0°♄	
	10775 Oct 01 18:09	0°♄			10776 Sep 23 02:38	0°♄	
asc. node	10775 Oct 08 14:25	12°♄57'12		asc. node	10776 Sep 24 11:12	2°♄46'11	
morning set	10775 Oct 12 01:20	20°♄06'12		morning set	10776 Sep 25 06:10	4°♄24'31	
	10775 Oct 16 14:37	0°♄		max. Earth dist.	10776 Oct 01 07:26	17°♄26'59	1.31541 AU
superior conj	10775 Oct 18 23:59	5°♄18'50	1°26'47	superior conj	10776 Oct 02 11:09	20°♄00'22	1°12'03
minimum elong	10775 Oct 18 22:05	5°♄08'17	1°26'52	minimum elong	10776 Oct 02 08:55	19°♄47'59	1°11'53
max. Earth dist.	10775 Oct 18 22:41	5°♄11'34	1.31455 AU		10776 Oct 06 23:28	0°♄	
evening rise	10775 Oct 25 18:46	20°♄11'48		evening rise	10776 Oct 09 04:23	4°♄47'36	
	10775 Oct 30 13:14	0°♄			10776 Oct 22 08:41	0°♄	
desc. node	10775 Nov 11 06:08	20°♄31'42		desc. node	10776 Oct 28 03:20	8°♄41'46	
	10775 Nov 18 01:16	0°♄		evening max el	10776 Nov 05 12:17	18°♄28'09	25°33'38
evening max el	10775 Nov 24 17:20	7°♄21'48	26°45'04	retrograde	10776 Nov 19 09:30	25°♄27'49	
retrograde	10775 Dec 08 15:52	14°♄30'05		evening set	10776 Nov 25 10:28	24°♄03'48	
evening set	10775 Dec 15 09:42	12°♄35'37		min. Earth dist.	10776 Nov 30 00:37	21°♄26'08	0.57584 AU
min. Earth dist.	10775 Dec 19 07:33	9°♄58'19	0.59630 AU	inferior conj	10776 Dec 02 23:27	19°♄24'19	-5°06'16
inferior conj	10775 Dec 22 11:47	7°♄27'08	-4°00'30	minimum elong	10776 Dec 03 06:54	19°♄11'26	5°04'14
minimum elong	10775 Dec 22 19:30	7°♄11'45	3°57'33	morning rise	10776 Dec 11 05:40	15°♄06'58	
morning rise	10775 Dec 30 08:02	2°♄47'21		direct	10776 Dec 13 12:04	14°♄51'15	
direct	10776 Jan 01 10:53	2°♄30'49		asc. node	10776 Dec 21 11:20	18°♄20'35	
asc. node	10776 Jan 04 14:15	3°♄08'56		morning max el	10776 Dec 22 07:23	19°♄06'49	18°53'57
morning max el	10776 Jan 09 03:17	6°♄19'05	18°11'39		10776 Dec 30 09:11	0°♄	
	10776 Jan 24 03:59	0°♄		morning set	10777 Jan 07 17:56	15°♄32'56	
morning set	10776 Jan 24 19:47	1°♄14'21			10777 Jan 15 03:21	0°♄	
superior conj	10776 Feb 03 08:57	18°♄58'18	0°29'30	superior conj	10777 Jan 16 05:34	2°♄05'16	0°58'32
minimum elong	10776 Feb 03 11:06	19°♄08'02	0°29'35	minimum elong	10777 Jan 16 08:38	2°♄19'49	0°58'37
desc. node	10776 Feb 07 05:38	25°♄49'31		max. Earth dist.	10777 Jan 23 06:52	15°♄04'01	1.39240 AU
	10776 Feb 09 15:38	0°♄		desc. node	10777 Jan 24 02:26	16°♄30'29	
max. Earth dist.	10776 Feb 10 23:37	2°♄15'55	1.41412 AU	evening rise	10777 Jan 27 04:13	21°♄50'00	
evening rise	10776 Feb 15 21:18	10°♄22'55			10777 Feb 01 02:03	0°♄	
	10776 Feb 28 13:58	0°♄			10777 Feb 21 13:34	0°♄	
evening max el	10776 Mar 20 17:34	27°♄30'39	23°02'18	evening max el	10777 Mar 03 07:36	11°♄20'25	24°22'17
	10776 Mar 23 10:15	0°♄		retrograde	10777 Mar 14 16:54	18°♄00'29	
retrograde	10776 Mar 31 00:31	3°♄35'27		asc. node	10777 Mar 19 09:30	16°♄19'43	
asc. node	10776 Apr 01 12:14	3°♄24'48		evening set	10777 Mar 20 03:34	15°♄43'52	
evening set	10776 Apr 04 23:09	1°♄31'55		min. Earth dist.	10777 Mar 24 18:27	10°♄26'41	0.68274 AU

inferior conj	10777 Mar 25 15:57	9° Υ 14'30	1°53'12	evening set	10778 Mar 04 03:36	29° H 49'02	
minimum elong	10777 Mar 25 13:50	9° Υ 21'37	1°52'28	asc. node	10778 Mar 06 06:47	27° H 44'03	
morning rise	10777 Mar 31 00:13	3° Υ 14'18		min. Earth dist.	10778 Mar 08 11:26	25° H 06'54	0.67485 AU
direct	10777 Apr 03 21:29	1° Υ 48'05		inferior conj	10778 Mar 09 20:51	23° H 20'11	1°08'02
morning max el	10777 Apr 11 11:46	6° Υ 03'38	20°02'20	minimum elong	10778 Mar 09 19:18	23° H 25'11	1°07'33
desc. node	10777 Apr 22 03:26	19° Υ 27'26		morning rise	10778 Mar 15 11:29	17° H 28'50	
	10777 Apr 29 08:28	0° B		direct	10778 Mar 18 20:53	16° H 22'54	
morning set	10777 May 08 18:45	14° B 19'02		morning max el	10778 Mar 25 17:53	20° H 07'54	19°03'29
	10777 May 18 19:19	0° II			10778 Apr 02 16:14	0° Υ	
max. Earth dist.	10777 May 19 04:44	0° II 37'33	1.44228 AU	greatest brilliancy	10778 Apr 08 01:25	7° Υ 55'12	-0.7m
				desc. node	10778 Apr 09 00:12	9° Υ 21'23	
superior conj	10777 May 24 17:23	9° II 32'20	-2°10'50	morning set	10778 Apr 17 22:34	23° Υ 05'40	
minimum elong	10777 May 24 20:35	9° II 45'22	2°11'16		10778 Apr 22 09:25	0° B	
	10777 Jun 05 22:25	0° B		max. Earth dist.	10778 May 01 20:52	14° B 47'18	1.45311 AU
evening rise	10777 Jun 06 20:11	1° B 33'16					
asc. node	10777 Jun 15 07:43	15° B 56'16		superior conj	10778 May 04 10:31	18° B 49'51	-2°10'24
evening max el	10777 Jun 24 10:58	28° B 35'05	18°06'46	minimum elong	10778 May 04 06:34	18° B 34'15	2°10'41
	10777 Jun 26 01:20	0° Ω			10778 May 11 11:01	0° II	
retrograde	10777 Jun 30 20:22	1° Ω 55'22		evening rise	10778 May 19 05:41	12° II 36'14	
evening set	10777 Jul 03 14:45	1° Ω 16'18			10778 May 29 23:47	0° B	
	10777 Jul 05 16:19	30° R B		asc. node	10778 Jun 02 04:48	4° B 49'56	
inferior conj	10777 Jul 09 20:21	26° B 02'57	2°26'23	evening max el	10778 Jun 08 00:07	12° B 06'04	18°25'32
minimum elong	10777 Jul 09 23:01	25° B 55'49	2°25'11	retrograde	10778 Jun 14 10:30	15° B 33'50	
min. Earth dist.	10777 Jul 12 16:01	23° B 03'55	0.62642 AU	evening set	10778 Jun 17 12:45	14° B 40'34	
morning rise	10777 Jul 16 05:24	19° B 53'21		inferior conj	10778 Jun 23 07:41	9° B 10'18	2°59'31
desc. node	10777 Jul 19 03:02	18° B 12'23		minimum elong	10778 Jun 23 09:33	9° B 04'48	2°58'39
direct	10777 Jul 22 22:25	17° B 25'15		min. Earth dist.	10778 Jun 25 13:20	6° B 32'23	0.64668 AU
morning max el	10777 Aug 06 00:03	25° B 27'33	27°54'07	morning rise	10778 Jun 29 05:15	2° B 51'36	
	10777 Aug 10 04:10	0° Ω		direct	10778 Jul 05 19:38	0° B 10'22	
	10777 Aug 30 11:44	0° H		desc. node	10778 Jul 06 00:11	0° B 10'29	
morning set	10777 Sep 09 04:49	18° H 22'14		morning max el	10778 Jul 19 10:22	8° B 09'13	27°21'49
asc. node	10777 Sep 11 07:58	22° H 45'03			10778 Aug 05 08:42	0° Ω	
max. Earth dist.	10777 Sep 14 12:07	29° H 28'20	1.32122 AU		10778 Aug 22 19:29	0° H	
	10777 Sep 14 18:00	0° $\underline{\text{A}}$		morning set	10778 Aug 23 18:44	1° H 52'56	
				max. Earth dist.	10778 Aug 28 08:59	11° H 07'00	1.33208 AU
superior conj	10777 Sep 16 19:52	4° $\underline{\text{A}}$ 30'39	0°52'09	asc. node	10778 Aug 29 04:46	12° H 49'31	
minimum elong	10777 Sep 16 17:47	4° $\underline{\text{A}}$ 19'19	0°51'47				
evening rise	10777 Sep 23 15:42	19° $\underline{\text{A}}$ 25'15		superior conj	10778 Sep 01 00:08	18° H 44'13	0°27'23
	10777 Sep 28 18:12	0° H		minimum elong	10778 Aug 31 22:49	18° H 37'13	0°26'58
desc. node	10777 Oct 15 00:35	25° H 41'55			10778 Sep 06 05:59	0° $\underline{\text{A}}$	
evening max el	10777 Oct 18 00:04	28° H 49'59	23°59'23	evening rise	10778 Sep 08 02:50	3° $\underline{\text{A}}$ 59'34	
	10777 Oct 19 06:23	0° A			10778 Sep 22 04:40	0° H	
retrograde	10777 Oct 31 14:51	5° A 38'30		evening max el	10778 Sep 29 11:37	8° H 56'38	22°18'52
evening set	10777 Nov 05 10:47	4° A 47'27		desc. node	10778 Oct 01 21:53	11° H 06'37	
min. Earth dist.	10777 Nov 11 10:37	1° A 50'38	0.55879 AU	retrograde	10778 Oct 12 08:40	15° H 21'18	
inferior conj	10777 Nov 13 14:34	0° A 31'57	-5°44'11	evening set	10778 Oct 15 16:53	14° H 56'35	
minimum elong	10777 Nov 13 17:01	0° A 28'15	5°43'34	min. Earth dist.	10778 Oct 23 17:56	11° H 22'50	0.54818 AU
	10777 Nov 14 11:43	30° R H		inferior conj	10778 Oct 24 12:47	10° H 56'16	-5°33'05
morning rise	10777 Nov 22 01:14	26° H 35'08		minimum elong	10778 Oct 24 06:59	11° H 04'27	5°32'02
direct	10777 Nov 24 17:45	26° H 16'42		morning rise	10778 Nov 01 22:39	7° H 09'09	
	10777 Dec 03 17:02	0° A		direct	10778 Nov 05 06:47	6° H 44'12	
morning max el	10777 Dec 04 23:38	1° A 08'21	19°58'51	morning max el	10778 Nov 17 02:18	12° H 19'07	21°25'51
asc. node	10777 Dec 08 08:22	4° A 50'35		asc. node	10778 Nov 25 05:21	22° H 22'58	
morning set	10777 Dec 22 22:56	0° B 08'19			10778 Nov 29 18:51	0° A	
	10777 Dec 22 21:17	0° B		morning set	10778 Dec 07 08:11	14° A 53'14	
superior conj	10777 Dec 30 16:34	15° B 51'49	1°19'29	superior conj	10778 Dec 14 13:54	0° B 06'35	1°32'45
minimum elong	10777 Dec 30 19:17	16° B 05'20	1°19'45	minimum elong	10778 Dec 14 15:38	0° B 15'35	1°33'12
max. Earth dist.	10778 Jan 05 13:29	27° B 15'30	1.37051 AU		10778 Dec 14 12:38	0° B	
	10778 Jan 07 00:47	0° \approx		max. Earth dist.	10778 Dec 19 00:14	9° B 08'46	1.35075 AU
evening rise	10778 Jan 09 07:24	4° \approx 08'54		evening rise	10778 Dec 23 03:41	17° B 11'55	
desc. node	10778 Jan 10 23:18	7° \approx 06'34		desc. node	10778 Dec 28 20:14	27° B 33'48	
	10778 Jan 25 02:01	0° H			10778 Dec 30 05:56	0° \approx	
evening max el	10778 Feb 13 20:54	25° H 10'13	25°36'24		10779 Jan 19 10:25	0° H	
	10778 Feb 19 17:21	0° Υ		evening max el	10779 Jan 27 10:19	8° H 55'10	26°37'21
retrograde	10778 Feb 26 04:51	2° Υ 16'02		retrograde	10779 Feb 09 11:37	16° H 15'17	
	10778 Mar 03 22:16	30° R H		evening set	10779 Feb 15 21:29	13° H 42'15	

min. Earth dist.	10779 Feb 19 23:19	9° H 34'22	0.66302 AU	evening max el	10780 Jan 09 23:31	22° \approx 26'33	27°17'58
asc. node	10779 Feb 21 04:05	8° H 09'05		retrograde	10780 Jan 23 12:15	29° \approx 50'12	
inferior conj	10779 Feb 21 20:38	7° H 19'34	0°13'31	evening set	10780 Jan 30 07:04	27° \approx 17'18	
minimum elong	10779 Feb 21 20:15	7° H 20'41	0°13'38	min. Earth dist.	10780 Feb 03 04:00	23° \approx 42'03	0.64759 AU
transit middle	10779 Feb 21 20:15	7° H 20'41	0°13'38	inferior conj	10780 Feb 05 12:53	21° \approx 07'23	-0°50'00
transit begin	10779 Feb 21 18:43	7° H 25'16		minimum elong	10780 Feb 05 14:23	21° \approx 03'16	0°48'58
transit end	10779 Feb 21 21:48	7° H 16'05		asc. node	10780 Feb 08 01:19	18° \approx 30'22	
morning rise	10779 Feb 27 20:05	1° H 38'53		morning rise	10780 Feb 11 23:25	15° \approx 39'43	
direct	10779 Mar 02 18:58	0° H 50'18		direct	10780 Feb 14 13:30	15° \approx 04'50	
morning max el	10779 Mar 09 06:28	4° H 17'29	18°20'51	morning max el	10780 Feb 20 23:02	18° \approx 25'21	17°55'08
desc. node	10779 Mar 26 20:55	29° H 34'08			10780 Feb 29 13:57	0° H	
	10779 Mar 27 03:24	0° Y		morning set	10780 Mar 09 09:43	14° H 28'49	
morning set	10779 Mar 29 01:30	3° Y 03'48		desc. node	10780 Mar 12 17:38	20° H 00'30	
					10780 Mar 18 20:04	0° Y	
superior conj	10779 Apr 13 16:54	27° Y 45'47	-1°49'42	superior conj	10780 Mar 23 06:51	7° Y 09'02	-1°13'21
minimum elong	10779 Apr 13 07:40	27° Y 09'41	1°49'09	minimum elong	10780 Mar 22 22:56	6° Y 37'31	1°12'23
max. Earth dist.	10779 Apr 14 15:53	29° Y 15'37	1.45674 AU	max. Earth dist.	10780 Mar 27 11:27	13° Y 47'24	1.45297 AU
	10779 Apr 15 03:14	0° Z			10780 Apr 06 21:43	0° Z	
evening rise	10779 Apr 29 15:19	22° Z 41'12		evening rise	10780 Apr 08 07:11	2° Z 08'38	
	10779 May 04 07:09	0° II		greatest brilliancy	10780 Apr 22 22:41	24° Z 15'10	-0.6m
greatest brilliancy	10779 May 09 23:39	8° II 50'57	-0.8m		10780 Apr 26 23:20	0° II	
asc. node	10779 May 20 01:56	23° II 09'17		evening max el	10780 May 04 15:29	9° II 28'00	19°54'18
evening max el	10779 May 22 10:13	25° II 45'08	19°01'52	asc. node	10780 May 05 23:07	10° II 43'18	
retrograde	10779 May 29 06:07	29° II 32'57		retrograde	10780 May 12 04:20	13° II 46'52	
evening set	10779 Jun 01 16:36	28° II 24'28		evening set	10780 May 15 23:47	12° II 22'30	
inferior conj	10779 Jun 07 04:31	22° II 38'55	3°15'06	inferior conj	10780 May 21 07:46	6° II 23'11	3°16'31
minimum elong	10779 Jun 07 05:13	22° II 36'39	3°14'29	minimum elong	10780 May 21 07:21	6° II 24'35	3°16'00
min. Earth dist.	10779 Jun 08 19:11	20° II 35'37	0.66338 AU	min. Earth dist.	10780 May 22 07:51	5° II 02'10	0.67577 AU
morning rise	10779 Jun 12 17:15	16° II 17'37		morning rise	10780 May 26 14:35	0° II 03'21	
direct	10779 Jun 19 00:11	13° II 34'11			10780 May 26 16:04	30° R Z	
desc. node	10779 Jun 22 21:17	14° II 26'11		direct	10780 Jun 01 10:39	27° Z 27'46	
morning max el	10779 Jul 01 21:09	21° II 15'03	26°20'57		10780 Jun 08 00:58	0° II	
	10779 Jul 09 11:06	0° Z		desc. node	10780 Jun 08 18:16	0° II 31'28	
	10779 Jul 29 13:17	0° Q		morning max el	10780 Jun 13 06:58	4° II 34'16	25°01'02
morning set	10779 Aug 06 20:29	14° Q 47'08		morning set	10780 Jul 02 19:34	0° Z	
max. Earth dist.	10779 Aug 10 19:13	22° Q 20'26	1.34798 AU		10780 Jul 19 05:52	26° Z 54'10	
	10779 Aug 14 15:19	0° R			10780 Jul 20 23:16	0° Q	
superior conj	10779 Aug 15 21:27	2° R 34'00	-0°01'41	max. Earth dist.	10780 Jul 22 20:00	3° Q 24'39	1.36818 AU
minimum elong	10779 Aug 15 21:34	2° R 34'36	0°02'00	superior conj	10780 Jul 29 08:53	15° Q 53'00	-0°33'56
behind sun begin	10779 Aug 15 15:40	2° R 04'21		minimum elong	10780 Jul 29 11:04	16° Q 03'42	0°33'58
behind sun end	10779 Aug 16 03:27	3° R 04'54		asc. node	10780 Aug 01 22:24	22° Q 58'31	
asc. node	10779 Aug 16 01:34	2° R 55'10			10780 Aug 05 09:48	0° R	
evening rise	10779 Aug 23 11:45	18° R 24'16		evening rise	10780 Aug 06 16:14	2° R 33'43	
	10779 Aug 29 06:28	0° Q			10780 Aug 23 04:27	0° Q	
evening max el	10779 Sep 11 08:19	19° Q 24'42	20°47'57	evening max el	10780 Aug 23 18:43	0° Q 36'31	19°35'40
desc. node	10779 Sep 18 19:13	24° Q 25'11		retrograde	10780 Sep 02 13:38	5° Q 28'12	
retrograde	10779 Sep 22 20:11	25° Q 06'49		evening set	10780 Sep 04 10:05	5° Q 18'33	
evening set	10779 Sep 25 01:42	24° Q 54'51		desc. node	10780 Sep 04 16:30	5° Q 15'36	
inferior conj	10779 Oct 04 04:48	20° Q 59'24	-4°24'39	inferior conj	10780 Sep 13 05:10	1° Q 14'19	-2°37'48
minimum elong	10779 Oct 03 18:52	21° Q 13'34	4°21'47	minimum elong	10780 Sep 12 22:08	1° Q 25'24	2°35'14
min. Earth dist.	10779 Oct 05 01:59	20° Q 29'08	0.54646 AU		10780 Sep 15 04:14	30° R R	
morning rise	10779 Oct 12 12:00	17° Q 02'36		min. Earth dist.	10780 Sep 15 12:37	29° R 47'00	0.55428 AU
direct	10779 Oct 16 14:51	16° Q 26'10		morning rise	10780 Sep 21 08:04	26° R 49'13	
morning max el	10779 Oct 29 17:36	22° Q 45'24	23°09'17	direct	10780 Sep 26 06:44	25° R 54'46	
	10779 Nov 05 02:31	0° R			10780 Oct 06 19:45	0° Q	
asc. node	10779 Nov 12 02:16	10° R 42'34		morning max el	10780 Oct 10 04:35	2° Q 51'40	24°56'05
morning set	10779 Nov 21 19:34	29° R 40'59		asc. node	10780 Oct 28 23:06	29° Q 37'54	
	10779 Nov 21 23:09	0° Z			10780 Oct 29 03:49	0° R	
superior conj	10779 Nov 28 18:16	14° Z 39'20	1°39'01	morning set	10780 Nov 05 07:18	14° R 26'38	
minimum elong	10779 Nov 28 18:49	14° Z 42'13	1°39'32	superior conj	10780 Nov 12 03:07	29° R 22'20	1°38'52
max. Earth dist.	10779 Dec 01 18:35	21° Z 03'32	1.33466 AU	minimum elong	10780 Nov 12 02:31	29° R 19'03	1°39'19
	10779 Dec 06 03:26	0° Z			10780 Nov 12 09:58	0° Z	
evening rise	10779 Dec 06 13:20	0° Z 49'05		max. Earth dist.	10780 Nov 13 20:46	3° Z 10'12	1.32308 AU
desc. node	10779 Dec 15 17:14	17° Z 46'49		evening rise	10780 Nov 19 09:01	14° Z 51'36	
	10779 Dec 23 05:56	0° \approx					

	10780 Nov 27 04:56	0°♄		desc. node	10781 Nov 18 11:24	27°♄01'30	
desc. node	10780 Dec 01 14:18	7°♄38'51			10781 Nov 20 09:12	0°♄	
	10780 Dec 17 05:52	0°♄		evening max el	10781 Dec 04 17:33	17°♄57'01	27°11'49
evening max el	10780 Dec 22 10:50	5°♄31'37	27°31'13	retrograde	10781 Dec 18 15:01	25°♄09'19	
retrograde	10781 Jan 05 05:43	12°♄51'03		evening set	10781 Dec 25 13:51	23°♄00'42	
evening set	10781 Jan 12 05:38	10°♄25'55		min. Earth dist.	10781 Dec 29 08:03	20°♄16'36	0.60855 AU
min. Earth dist.	10781 Jan 15 23:22	7°♄19'50	0.62913 AU	inferior conj	10782 Jan 01 10:53	17°♄36'12	-3°17'17
inferior conj	10781 Jan 18 18:44	4°♄35'44	-2°01'22	minimum elong	10782 Jan 01 17:31	17°♄21'57	3°14'23
minimum elong	10781 Jan 18 22:44	4°♄25'58	1°59'15	morning rise	10782 Jan 08 23:49	12°♄44'08	
	10781 Jan 24 10:14	30°♄♄		direct	10782 Jan 11 03:22	12°♄25'26	
asc. node	10781 Jan 24 22:30	29°♄44'29		asc. node	10782 Jan 11 19:37	12°♄27'21	
morning rise	10781 Jan 25 18:07	29°♄24'10		morning max el	10782 Jan 18 07:53	16°♄01'41	17°57'03
direct	10781 Jan 28 01:32	28°♄59'09			10782 Jan 28 01:51	0°♄	
	10781 Jan 31 15:16	0°♄		morning set	10782 Feb 02 22:34	10°♄34'15	
morning max el	10781 Feb 03 16:35	2°♄22'54	17°46'54				
morning set	10781 Feb 19 18:54	27°♄05'39		superior conj	10782 Feb 13 06:19	29°♄10'40	0°09'12
	10781 Feb 21 10:51	0°♄		minimum elong	10782 Feb 13 07:07	29°♄14'10	0°09'25
desc. node	10781 Feb 27 14:21	10°♄35'36		behind sun begin	10782 Feb 13 00:30	28°♄45'14	
				behind sun end	10782 Feb 13 13:44	29°♄43'02	
superior conj	10781 Mar 03 18:04	17°♄34'19	-0°30'59		10782 Feb 13 17:38	0°♄	
minimum elong	10781 Mar 03 14:55	17°♄21'12	0°30'19	desc. node	10782 Feb 14 11:07	1°♄15'54	
max. Earth dist.	10781 Mar 10 05:23	28°♄07'26	1.44221 AU	max. Earth dist.	10782 Feb 20 19:18	11°♄59'12	1.42561 AU
	10781 Mar 11 09:34	0°♄		evening rise	10782 Feb 26 17:50	21°♄35'19	
evening rise	10781 Mar 18 19:05	11°♄34'56			10782 Mar 04 03:31	0°♄	
	10781 Mar 31 00:57	0°♄			10782 Mar 25 07:43	0°♄	
evening max el	10781 Apr 17 15:05	23°♄11'46	21°00'19	evening max el	10782 Mar 31 09:29	6°♄56'28	22°16'06
asc. node	10781 Apr 22 20:20	27°♄17'45		asc. node	10782 Apr 09 17:33	12°♄37'12	
retrograde	10781 Apr 26 02:57	28°♄09'53		retrograde	10782 Apr 10 00:18	12°♄37'36	
evening set	10781 Apr 30 08:17	26°♄29'38		evening set	10782 Apr 14 16:26	10°♄42'01	
inferior conj	10781 May 05 14:56	20°♄18'09	3°06'08	inferior conj	10782 Apr 19 23:54	4°♄20'44	2°45'23
minimum elong	10781 May 05 13:35	20°♄22'47	3°05'33	minimum elong	10782 Apr 19 21:57	4°♄27'32	2°44'41
min. Earth dist.	10781 May 06 01:16	19°♄42'21	0.68353 AU	min. Earth dist.	10782 Apr 19 21:24	4°♄29'28	0.68668 AU
morning rise	10781 May 10 18:41	14°♄02'05			10782 Apr 23 07:35	30°♄♄	
direct	10781 May 16 01:57	11°♄42'01		morning rise	10782 Apr 25 03:21	28°♄09'49	
morning max el	10781 May 26 16:38	18°♄01'25	23°32'07	direct	10782 Apr 29 21:04	26°♄09'44	
desc. node	10781 May 26 15:12	17°♄57'49			10782 May 07 11:50	0°♄	
	10781 Jun 05 16:56	0°♄		morning max el	10782 May 09 04:53	1°♄37'12	22°03'33
	10781 Jun 25 21:35	0°♄		desc. node	10782 May 13 12:05	6°♄23'28	
morning set	10781 Jun 30 17:49	8°♄00'50			10782 May 30 14:20	0°♄	
max. Earth dist.	10781 Jul 04 17:03	14°♄50'07	1.39085 AU	morning set	10782 Jun 11 04:01	17°♄57'06	
				max. Earth dist.	10782 Jun 16 16:49	27°♄01'31	1.41340 AU
superior conj	10781 Jul 12 06:42	28°♄31'44	-1°07'24		10782 Jun 18 11:15	0°♄	
minimum elong	10781 Jul 12 11:17	28°♄53'05	1°07'11				
	10781 Jul 13 01:33	0°♄		superior conj	10782 Jun 24 10:28	10°♄19'40	-1°38'43
asc. node	10781 Jul 19 19:16	12°♄55'35		minimum elong	10782 Jun 24 16:49	10°♄47'47	1°38'33
evening rise	10781 Jul 21 13:25	16°♄20'20		evening rise	10782 Jul 04 23:46	29°♄34'41	
	10781 Jul 28 20:26	0°♄			10782 Jul 05 05:14	0°♄	
evening max el	10781 Aug 06 17:36	12°♄34'22	18°44'43	asc. node	10782 Jul 06 16:11	2°♄41'54	
retrograde	10781 Aug 15 00:04	16°♄42'24		evening max el	10782 Jul 21 01:17	25°♄10'16	18°14'36
evening set	10781 Aug 16 22:59	16°♄29'22		retrograde	10782 Jul 28 05:39	28°♄48'05	
desc. node	10781 Aug 22 13:46	13°♄50'53		evening set	10782 Jul 30 11:26	28°♄27'32	
inferior conj	10781 Aug 25 00:32	12°♄06'54	-0°45'39	inferior conj	10782 Aug 06 17:45	23°♄44'35	0°48'42
minimum elong	10781 Aug 24 22:40	12°♄10'21	0°45'08	minimum elong	10782 Aug 06 19:20	23°♄41'11	0°47'44
min. Earth dist.	10781 Aug 28 03:54	9°♄49'18	0.57002 AU	desc. node	10782 Aug 09 11:03	21°♄24'08	
morning rise	10781 Sep 01 18:59	7°♄04'21		min. Earth dist.	10782 Aug 10 02:09	20°♄52'54	0.59087 AU
direct	10781 Sep 07 12:05	5°♄44'51		morning rise	10782 Aug 13 23:53	18°♄07'47	
morning max el	10781 Sep 21 18:56	13°♄11'05	26°28'37	direct	10782 Aug 20 07:23	16°♄18'51	
	10781 Oct 05 01:06	0°♄		morning max el	10782 Sep 03 16:18	24°♄06'37	27°31'33
asc. node	10781 Oct 15 19:55	19°♄00'06			10782 Sep 09 00:41	0°♄	
morning set	10781 Oct 20 17:45	29°♄06'07			10782 Sep 28 06:37	0°♄	
	10781 Oct 21 03:50	0°♄		asc. node	10782 Oct 02 16:42	8°♄40'56	
				morning set	10782 Oct 05 01:10	13°♄33'31	
superior conj	10781 Oct 27 14:21	14°♄09'42	1°32'48	max. Earth dist.	10782 Oct 11 13:45	27°♄46'20	1.31426 AU
minimum elong	10781 Oct 27 12:50	14°♄01'16	1°33'03				
max. Earth dist.	10781 Oct 28 04:24	15°♄27'44	1.31626 AU	superior conj	10782 Oct 12 02:02	28°♄54'39	1°21'11
evening rise	10781 Nov 03 11:56	29°♄12'22		minimum elong	10782 Oct 11 23:57	28°♄43'00	1°21'09
	10781 Nov 03 21:00	0°♄			10782 Oct 12 13:46	0°♄	

evening rise	10782 Oct 18 19:41	13°  43'50		minimum elong	10783 Sep 26 10:11	13°  19'50	1°03'58
	10782 Oct 26 22:09	0° 		evening rise	10783 Oct 03 06:15	28°  20'48	
desc. node	10782 Nov 05 08:35	15°  42'17			10783 Oct 04 00:46	0° 	
evening max el	10782 Nov 16 16:55	29°  31'34	26°18'14		10783 Oct 20 16:57	0° 	
	10782 Nov 17 05:07	0° 		desc. node	10783 Oct 23 05:49	3°  25'11	
retrograde	10782 Nov 30 15:07	6°  36'46		evening max el	10783 Oct 29 08:14	10°  16'05	24°55'26
evening set	10782 Dec 07 03:26	4°  54'06		retrograde	10783 Nov 12 04:09	17°  12'32	
min. Earth dist.	10782 Dec 11 06:10	2°  19'05	0.58734 AU	evening set	10783 Nov 17 17:54	16°  02'45	
inferior conj	10782 Dec 14 09:45	29°  58'08	-4°30'31	min. Earth dist.	10783 Nov 22 19:59	13°  19'01	0.56794 AU
minimum elong	10782 Dec 14 17:49	29°  43'02	4°27'47	inferior conj	10783 Nov 25 12:36	11°  33'57	-5°27'08
	10782 Dec 14 08:45	30°  R 		minimum elong	10783 Nov 25 18:35	11°  24'12	5°25'45
morning rise	10782 Dec 22 10:51	25°  12'28'17		morning rise	10783 Dec 03 21:30	7°  26'00	
direct	10782 Dec 24 14:30	25°  12'32		direct	10783 Dec 06 07:07	7°  09'44	
asc. node	10782 Dec 29 16:43	26°  46'21		morning max el	10783 Dec 15 16:44	11°  40'01	19°18'46
morning max el	10783 Jan 01 17:14	29°  10'57	18°27'04	asc. node	10783 Dec 16 13:46	12°  32'46	
	10783 Jan 02 12:31	0° 			10783 Dec 28 01:07	0° 	
morning set	10783 Jan 17 15:09	24°  37'23		morning set	10784 Jan 01 16:31	9°  03'17	
	10783 Jan 20 10:21	0° 					
superior conj	10783 Jan 26 16:28	11°  48'01	0°42'47	superior conj	10784 Jan 09 19:42	25°  12'42	1°08'24
minimum elong	10783 Jan 26 19:13	12°  00'39	0°42'50	minimum elong	10784 Jan 09 22:44	25°  27'24	1°08'33
desc. node	10783 Feb 01 07:54	21°  57'17			10784 Jan 12 07:31	0° 	
max. Earth dist.	10783 Feb 03 04:02	25°  09'02	1.40500 AU	max. Earth dist.	10784 Jan 16 09:55	7°  37'14	1.38290 AU
	10783 Feb 06 00:30	0° 		desc. node	10784 Jan 19 04:44	12°  36'18	
evening rise	10783 Feb 07 12:09	2°  18'34		evening rise	10784 Jan 20 03:57	14°  18'02	
	10783 Feb 25 10:59	0° 			10784 Jan 29 15:23	0° 	
evening max el	10783 Mar 14 00:23	20°  43'26	23°36'32	evening max el	10784 Feb 24 13:53	4°  33'07	24°55'06
retrograde	10783 Mar 24 19:00	27°  04'56		retrograde	10784 Mar 07 09:45	11°  26'08	
asc. node	10783 Mar 27 14:48	26°  07'27'09		evening set	10784 Mar 13 01:27	9°  04'50	
evening set	10783 Mar 29 22:41	24°  05'55'25		asc. node	10784 Mar 13 12:05	8°  41'23	
inferior conj	10783 Apr 04 08:49	18°  07'27'36	2°15'00	min. Earth dist.	10784 Mar 17 13:12	4°  02'23	0.67978 AU
minimum elong	10783 Apr 04 06:37	18°  07'35'07	2°14'14	inferior conj	10784 Mar 18 15:44	2°  34'52	1°35'12
min. Earth dist.	10783 Apr 03 18:08	19°  07'17'56	0.68533 AU	minimum elong	10784 Mar 18 13:47	2°  41'18	1°34'33
morning rise	10783 Apr 09 14:33	12°  07'23'02			10784 Mar 20 16:09	30°  R 	
direct	10783 Apr 13 19:00	10°  07'44'37		morning rise	10784 Mar 24 02:22	26°  18'37'59	
morning max el	10783 Apr 21 22:54	15°  07'24'02	20°42'59	direct	10784 Mar 27 18:24	25°  18'20'41	
desc. node	10783 Apr 30 08:56	25°  07'32'18		morning max el	10784 Apr 04 00:30	29°  18'22'05	19°35'21
	10783 May 03 14:30	0° 			10784 Apr 04 15:29	0° 	
morning set	10783 May 21 13:41	26°  08'49'01		desc. node	10784 Apr 16 05:42	15°  07'12'10	
	10783 May 23 14:36	0° 		greatest brilliancy	10784 Apr 16 17:05	15°  07'53'54	-0.7m
max. Earth dist.	10783 May 29 22:47	10°  08'05'31	1.43309 AU		10784 Apr 26 01:59	0° 	
				morning set	10784 Apr 29 12:45	5°  08'17'19	
superior conj	10783 Jun 05 15:55	21°  08'08'22	-2°02'48	max. Earth dist.	10784 May 11 11:28	23°  08'54'34	1.44768 AU
minimum elong	10783 Jun 05 21:32	21°  08'31'55	2°03'01		10784 May 15 07:20	0° 	
	10783 Jun 10 20:56	0° 					
evening rise	10783 Jun 17 18:54	12°  06'15		superior conj	10784 May 15 21:11	0°  08'55'28	-2°13'05
asc. node	10783 Jun 23 13:09	22°  06'12'56		minimum elong	10784 May 15 21:37	0°  08'57'14	2°13'35
	10783 Jun 28 06:16	0° 		evening rise	10784 May 29 17:47	23°  08'43'09	
evening max el	10783 Jul 04 13:53	8°  08'15'07	18°04'13		10784 Jun 02 11:28	0° 	
retrograde	10783 Jul 11 03:15	11°  08'37'36		asc. node	10784 Jun 09 10:12	11°  08'22'15	
evening set	10783 Jul 13 16:58	11°  08'06'07		evening max el	10784 Jun 17 03:47	21°  08'39'04	18°12'34
inferior conj	10783 Jul 20 06:33	6°  08'03'38	1°57'41	retrograde	10784 Jun 23 12:26	25°  08'00'37	
minimum elong	10783 Jul 20 09:17	5°  08'56'50	1°56'22	evening set	10784 Jun 26 10:10	24°  08'15'43	
min. Earth dist.	10783 Jul 23 08:58	3°  08'00'29	0.61363 AU	inferior conj	10784 Jul 02 10:48	18°  08'55'16	2°42'45
morning rise	10783 Jul 26 23:04	0°  08'02'54		minimum elong	10784 Jul 02 13:12	18°  08'48'33	2°41'42
desc. node	10783 Jul 27 08:18	29°  08'47'40		min. Earth dist.	10784 Jul 05 00:52	16°  08'03'01	0.63547 AU
	10783 Jul 27 00:47	30°  R 		morning rise	10784 Jul 08 14:42	12°  08'40'58	
direct	10783 Aug 02 14:43	27°  08'46'37		desc. node	10784 Jul 13 05:30	10°  08'20'09	
	10783 Aug 09 16:29	0° 		direct	10784 Jul 15 07:30	10°  08'05'39	
morning max el	10783 Aug 16 20:24	5°  08'47'01	27°56'48	morning max el	10784 Jul 29 04:58	18°  08'08'02	27°44'12
	10783 Sep 04 01:39	0° 			10784 Aug 08 03:54	0° 	
morning set	10783 Sep 19 03:40	27°  08'44'00			10784 Aug 26 22:53	0° 	
asc. node	10783 Sep 19 13:30	28°  08'34'49		morning set	10784 Sep 01 22:56	11°  08'30'51	
	10783 Sep 20 05:52	0° 		asc. node	10784 Sep 05 10:18	18°  08'36'27	
max. Earth dist.	10783 Sep 24 21:08	9° 08'56'20	1.31722 AU	max. Earth dist.	10784 Sep 06 22:39	21° 08'47'22	1.32524 AU
superior conj	10783 Sep 26 12:25	13° 08'32'09	1°04'14	superior conj	10784 Sep 09 19:32	27° 08'56'07	0°42'14

minimum elong	10784 Sep 09 17:42	27° \mathbb{M} 46'13	0°41'48	superior conj	10785 Aug 24 21:11	12° \mathbb{M} 00'27	0°15'33
	10784 Sep 10 18:24	0° \mathbb{A}		minimum elong	10785 Aug 24 20:23	11° \mathbb{M} 56'17	0°15'09
evening rise	10784 Sep 16 17:43	12° \mathbb{A} 57'29		behind sun begin	10785 Aug 24 18:29	11° \mathbb{M} 46'20	
	10784 Sep 25 06:18	0° \mathbb{M}		behind sun end	10785 Aug 24 22:17	12° \mathbb{M} 06'14	
desc. node	10784 Oct 09 03:06	19° \mathbb{M} 48'09		evening rise	10785 Sep 01 04:11	27° \mathbb{M} 28'35	
evening max el	10784 Oct 09 18:59	20° \mathbb{M} 27'31	23°16'23		10785 Sep 02 09:06	0° \mathbb{A}	
retrograde	10784 Oct 23 04:06	27° \mathbb{M} 07'26			10785 Sep 20 17:58	0° \mathbb{M}	
evening set	10784 Oct 27 08:42	26° \mathbb{M} 29'16		evening max el	10785 Sep 21 09:29	0° \mathbb{M} 39'08	21°38'11
min. Earth dist.	10784 Nov 03 04:38	23° \mathbb{M} 18'36	0.55331 AU	desc. node	10785 Sep 26 00:24	4° \mathbb{M} 22'53	
inferior conj	10784 Nov 04 19:43	22° \mathbb{M} 21'41	-5°46'30	retrograde	10785 Oct 03 17:35	6° \mathbb{M} 47'08	
minimum elong	10784 Nov 04 18:41	22° \mathbb{M} 23'12	5°46'03	evening set	10785 Oct 06 12:48	6° \mathbb{M} 29'21	
morning rise	10784 Nov 13 06:25	18° \mathbb{M} 30'28		inferior conj	10785 Oct 15 13:32	2° \mathbb{M} 32'49	-5°10'31
direct	10784 Nov 16 05:05	18° \mathbb{M} 09'39		minimum elong	10785 Oct 15 05:03	2° \mathbb{M} 44'41	5°08'38
morning max el	10784 Nov 27 03:10	23° \mathbb{M} 19'40	20°33'19	min. Earth dist.	10785 Oct 15 11:35	2° \mathbb{M} 35'32	0.54633 AU
asc. node	10784 Dec 02 10:47	29° \mathbb{M} 31'05			10785 Oct 20 10:38	30° \mathbb{R} \mathbb{A}	
	10784 Dec 02 19:07	0° \mathbb{A}		morning rise	10785 Oct 23 22:23	28° \mathbb{A} 44'32	
morning set	10784 Dec 15 23:38	23° \mathbb{A} 43'34		direct	10785 Oct 27 14:35	28° \mathbb{A} 15'14	
	10784 Dec 19 00:20	0° \mathbb{B}			10785 Nov 03 08:08	0° \mathbb{M}	
				morning max el	10785 Nov 09 00:12	4° \mathbb{M} 08'46	22°08'30
superior conj	10784 Dec 23 11:32	9° \mathbb{B} 12'19	1°26'01	asc. node	10785 Nov 19 07:43	17° \mathbb{M} 25'00	
minimum elong	10784 Dec 23 13:53	9° \mathbb{B} 24'14	1°26'22		10785 Nov 26 06:26	0° \mathbb{A}	
max. Earth dist.	10784 Dec 28 17:48	19° \mathbb{B} 38'39	1.36173 AU	morning set	10785 Nov 30 10:02	8° \mathbb{A} 30'26	
evening rise	10785 Jan 01 14:54	26° \mathbb{B} 57'14					
	10785 Jan 03 07:05	0° \mathbb{A}		superior conj	10785 Dec 07 12:11	23° \mathbb{A} 35'31	1°36'13
desc. node	10785 Jan 05 01:37	3° \mathbb{A} 09'18		minimum elong	10785 Dec 07 13:25	23° \mathbb{A} 42'01	1°36'43
	10785 Jan 22 01:15	0° \mathbb{H}			10785 Dec 10 13:55	0° \mathbb{B}	
evening max el	10785 Feb 06 03:27	18° \mathbb{H} 22'40	26°04'32	max. Earth dist.	10785 Dec 11 07:53	1° \mathbb{B} 32'04	1.34340 AU
retrograde	10785 Feb 18 19:31	25° \mathbb{H} 35'31		evening rise	10785 Dec 15 17:18	10° \mathbb{B} 15'39	
evening set	10785 Feb 24 23:05	23° \mathbb{H} 05'40		desc. node	10785 Dec 22 22:34	23° \mathbb{B} 31'07	
asc. node	10785 Feb 28 09:21	19° \mathbb{H} 35'17			10785 Dec 26 18:23	0° \mathbb{A}	
min. Earth dist.	10785 Mar 01 04:22	18° \mathbb{H} 38'01	0.67024 AU		10786 Jan 17 15:58	0° \mathbb{H}	
inferior conj	10785 Mar 02 18:45	16° \mathbb{H} 38'48	0°46'04	evening max el	10786 Jan 19 16:58	2° \mathbb{H} 03'13	26°57'35
minimum elong	10785 Mar 02 17:36	16° \mathbb{H} 42'21	0°45'49	retrograde	10786 Feb 01 23:28	9° \mathbb{H} 25'11	
morning rise	10785 Mar 08 12:48	10° \mathbb{H} 51'29		evening set	10786 Feb 08 13:39	6° \mathbb{H} 51'24	
direct	10785 Mar 11 17:37	9° \mathbb{H} 53'09		min. Earth dist.	10786 Feb 12 13:18	2° \mathbb{H} 57'51	0.65691 AU
morning max el	10785 Mar 18 09:31	13° \mathbb{H} 29'02	18°43'19	inferior conj	10786 Feb 14 15:35	0° \mathbb{H} 33'38	-0°12'21
	10785 Mar 30 16:41	0° \mathbb{Y}		minimum elong	10786 Feb 14 15:56	0° \mathbb{H} 32'39	0°11'52
desc. node	10785 Apr 03 02:27	5° \mathbb{Y} 14'58		transit middle	10786 Feb 14 15:56	0° \mathbb{H} 32'39	0°11'52
morning set	10785 Apr 09 00:43	14° \mathbb{Y} 29'56		transit begin	10786 Feb 14 13:56	0° \mathbb{H} 38'25	
	10785 Apr 18 22:42	0° \mathbb{B}		transit end	10786 Feb 14 17:55	0° \mathbb{H} 26'55	
max. Earth dist.	10785 Apr 24 05:22	8° \mathbb{B} 15'01	1.45561 AU	asc. node	10786 Feb 15 06:36	29° \mathbb{A} 50'43	
					10786 Feb 15 03:20	30° \mathbb{R} \mathbb{A}	
superior conj	10785 Apr 25 07:46	9° \mathbb{B} 58'27	-2°04'01	morning rise	10786 Feb 20 19:29	24° \mathbb{A} 58'12	
minimum elong	10785 Apr 25 00:53	9° \mathbb{B} 31'29	2°03'58	direct	10786 Feb 23 14:31	24° \mathbb{A} 15'46	
	10785 May 07 23:52	0° \mathbb{H}		morning max el	10786 Mar 02 00:06	27° \mathbb{A} 38'26	18°07'52
evening rise	10785 May 10 16:56	4° \mathbb{H} 20'18			10786 Mar 04 03:57	0° \mathbb{H}	
greatest brilliancy	10785 May 17 17:01	15° \mathbb{H} 33'37	-0.9m	morning set	10786 Mar 20 16:08	25° \mathbb{H} 05'24	
asc. node	10785 May 27 07:18	0° \mathbb{B} 02'28		desc. node	10786 Mar 20 23:08	25° \mathbb{H} 33'48	
	10785 May 27 06:35	0° \mathbb{B}			10786 Mar 23 16:55	0° \mathbb{Y}	
evening max el	10785 May 31 16:00	5° \mathbb{B} 14'31	18°38'53				
retrograde	10785 Jun 07 05:14	8° \mathbb{B} 48'53		superior conj	10786 Apr 04 14:59	18° \mathbb{Y} 59'08	-1°35'39
evening set	10785 Jun 10 11:02	7° \mathbb{B} 49'05		minimum elong	10786 Apr 04 05:33	18° \mathbb{Y} 22'05	1°34'50
inferior conj	10785 Jun 16 02:34	2° \mathbb{B} 12'08	3°07'59	max. Earth dist.	10786 Apr 07 01:25	22° \mathbb{Y} 48'22	1.45605 AU
minimum elong	10785 Jun 16 03:57	2° \mathbb{B} 07'52	3°07'15		10786 Apr 11 16:00	0° \mathbb{B}	
	10785 Jun 17 21:47	30° \mathbb{R} \mathbb{H}		evening rise	10786 Apr 20 17:43	14° \mathbb{B} 05'31	
min. Earth dist.	10785 Jun 18 01:49	29° \mathbb{H} 47'53	0.65438 AU		10786 May 01 01:27	0° \mathbb{H}	
morning rise	10785 Jun 21 20:04	25° \mathbb{H} 51'59		greatest brilliancy	10786 May 03 02:34	3° \mathbb{H} 05'29	-0.7m
direct	10785 Jun 28 07:54	23° \mathbb{H} 08'36		asc. node	10786 May 14 04:27	18° \mathbb{H} 03'50	
desc. node	10785 Jun 30 02:37	23° \mathbb{H} 19'30		evening max el	10786 May 15 00:10	18° \mathbb{H} 55'16	19°22'17
	10785 Jul 10 15:02	0° \mathbb{B}		retrograde	10786 May 22 02:19	22° \mathbb{H} 55'03	
morning max el	10785 Jul 11 15:35	1° \mathbb{B} 00'41	26°58'48	evening set	10786 May 25 16:35	21° \mathbb{H} 39'39	
	10785 Aug 02 05:38	0° \mathbb{B}		inferior conj	10786 May 31 02:27	15° \mathbb{H} 47'50	3°17'16
morning set	10785 Aug 16 08:07	24° \mathbb{B} 46'52		minimum elong	10786 May 31 02:40	15° \mathbb{H} 47'06	3°16'43
	10785 Aug 19 00:17	0° \mathbb{M}		min. Earth dist.	10786 Jun 01 10:43	14° \mathbb{H} 02'13	0.66918 AU
max. Earth dist.	10785 Aug 20 15:14	3° \mathbb{M} 14'56	1.33835 AU	morning rise	10786 Jun 05 12:19	9° \mathbb{H} 26'50	
asc. node	10785 Aug 23 07:06	8° \mathbb{M} 41'49		direct	10786 Jun 11 14:50	6° \mathbb{H} 46'00	
				desc. node	10786 Jun 16 23:39	8° \mathbb{H} 25'16	

morning max el	10786 Jun 24 02:12	14° Π 13'49	25°48'50	desc. node	10787 Jun 03 20:37	25° \mathcal{B} 07'42	
	10786 Jul 06 22:20	0° \mathcal{B}		morning max el	10787 Jun 06 11:53	27° \mathcal{B} 37'04	24°23'50
	10786 Jul 26 00:34	0° \mathcal{Q}			10787 Jun 08 17:41	0° Π	
morning set	10786 Jul 30 03:32	7° \mathcal{Q} 22'58			10787 Jun 30 14:14	0° \mathcal{B}	
max. Earth dist.	10786 Aug 02 21:34	14° \mathcal{Q} 24'08	1.35615 AU	morning set	10787 Jul 12 04:28	19° \mathcal{B} 06'07	
				max. Earth dist.	10787 Jul 15 19:50	25° \mathcal{B} 33'07	1.37757 AU
					10787 Jul 18 06:20	0° \mathcal{Q}	
superior conj	10786 Aug 08 14:44	25° \mathcal{Q} 38'33	-0°15'03				
minimum elong	10786 Aug 08 15:39	25° \mathcal{Q} 43'11	0°15'14				
behind sun begin	10786 Aug 08 13:38	25° \mathcal{Q} 33'01		superior conj	10787 Jul 22 20:50	8° \mathcal{Q} 41'12	-0°48'08
behind sun end	10786 Aug 08 17:40	25° \mathcal{Q} 53'21		minimum elong	10787 Jul 23 00:01	8° \mathcal{Q} 56'34	0°48'02
asc. node	10786 Aug 10 03:55	28° \mathcal{Q} 47'16		asc. node	10787 Jul 28 00:45	18° \mathcal{Q} 48'18	
	10786 Aug 10 18:09	0° \mathcal{M}		evening rise	10787 Jul 31 13:19	25° \mathcal{Q} 49'03	
evening rise	10786 Aug 16 11:34	11° \mathcal{M} 48'23			10787 Aug 02 16:10	0° \mathcal{M}	
	10786 Aug 26 00:37	0° \mathcal{L}		evening max el	10787 Aug 17 03:50	22° \mathcal{M} 56'34	19°11'26
evening max el	10786 Sep 03 11:46	11° \mathcal{L} 24'36	20°14'34	retrograde	10787 Aug 26 06:32	27° \mathcal{M} 28'37	
desc. node	10786 Sep 12 21:43	16° \mathcal{L} 40'53		evening set	10787 Aug 28 02:51	27° \mathcal{M} 18'13	
retrograde	10786 Sep 14 06:30	16° \mathcal{L} 45'52		desc. node	10787 Aug 30 19:01	26° \mathcal{M} 29'20	
evening set	10786 Sep 16 06:09	16° \mathcal{L} 35'46		inferior conj	10787 Sep 05 15:11	23° \mathcal{M} 07'06	-1°49'11
inferior conj	10786 Sep 25 07:28	12° \mathcal{L} 37'40	-3°42'08	minimum elong	10787 Sep 05 10:23	23° \mathcal{M} 15'10	1°47'26
minimum elong	10786 Sep 24 22:07	12° \mathcal{L} 51'29	3°39'01	min. Earth dist.	10787 Sep 08 09:04	21° \mathcal{M} 16'49	0.56012 AU
min. Earth dist.	10786 Sep 26 20:21	11° \mathcal{L} 43'12	0.54867 AU	morning rise	10787 Sep 13 14:59	18° \mathcal{M} 25'57	
morning rise	10786 Oct 03 13:15	8° \mathcal{L} 30'55		direct	10787 Sep 18 21:35	17° \mathcal{M} 21'38	
direct	10786 Oct 08 00:16	7° \mathcal{L} 48'00		morning max el	10787 Oct 03 00:44	24° \mathcal{M} 32'53	25°38'06
morning max el	10786 Oct 21 12:51	14° \mathcal{L} 23'51	23°55'21		10787 Oct 08 01:25	0° \mathcal{L}	
	10786 Nov 02 15:54	0° \mathcal{M}		asc. node	10787 Oct 24 01:26	25° \mathcal{L} 09'00	
asc. node	10786 Nov 06 04:36	6° \mathcal{M} 01'23			10787 Oct 26 12:33	0° \mathcal{M}	
morning set	10786 Nov 14 21:48	23° \mathcal{M} 18'28		morning set	10787 Oct 30 09:11	8° \mathcal{M} 02'02	
	10786 Nov 18 00:10	0° \mathcal{X}					
				superior conj	10787 Nov 06 04:54	22° \mathcal{M} 59'44	1°36'59
superior conj	10786 Nov 21 18:46	8° \mathcal{X} 13'56	1°39'41	minimum elong	10787 Nov 06 03:52	22° \mathcal{M} 54'06	1°37'22
minimum elong	10786 Nov 21 18:49	8° \mathcal{X} 14'09	1°40'12	max. Earth dist.	10787 Nov 07 10:27	25° \mathcal{M} 42'46	1.31959 AU
max. Earth dist.	10786 Nov 24 05:49	13° \mathcal{X} 32'05	1.32917 AU		10787 Nov 09 09:30	0° \mathcal{X}	
evening rise	10786 Nov 29 07:36	24° \mathcal{X} 04'39		evening rise	10787 Nov 13 06:41	8° \mathcal{X} 15'41	
	10786 Dec 02 07:46	0° \mathcal{Z}			10787 Nov 24 17:43	0° \mathcal{Z}	
desc. node	10786 Dec 09 19:36	13° \mathcal{Z} 36'13		desc. node	10787 Nov 26 16:42	3° \mathcal{Z} 16'57	
	10786 Dec 20 08:29	0° \approx		evening max el	10787 Dec 15 14:54	28° \mathcal{Z} 13'10	27°27'03
evening max el	10787 Jan 02 05:24	15° \approx 24'03	27°27'08		10787 Dec 17 14:31	0° \approx	
retrograde	10787 Jan 15 21:06	22° \approx 46'48		retrograde	10787 Dec 29 11:34	5° \approx 30'39	
evening set	10787 Jan 22 18:51	20° \approx 15'48		evening set	10788 Jan 05 11:49	3° \approx 11'16	
min. Earth dist.	10787 Jan 26 14:01	16° \approx 53'53	0.64011 AU	min. Earth dist.	10788 Jan 09 05:00	0° \approx 15'42	0.62053 AU
inferior conj	10787 Jan 29 03:44	14° \approx 13'33	-1°19'27		10788 Jan 09 11:59	30° \mathcal{R} \mathcal{Z}	
minimum elong	10787 Jan 29 06:14	14° \approx 07'01	1°17'58	inferior conj	10788 Jan 12 04:10	27° \mathcal{Z} 31'05	-2°33'21
asc. node	10787 Feb 02 03:48	10° \approx 27'48		minimum elong	10788 Jan 12 09:19	27° \mathcal{Z} 19'08	2°30'51
morning rise	10787 Feb 04 19:36	8° \approx 52'40		morning rise	10788 Jan 19 09:22	22° \mathcal{Z} 27'37	
direct	10787 Feb 07 06:34	8° \approx 22'28		asc. node	10788 Jan 20 00:57	22° \mathcal{Z} 16'50	
morning max el	10787 Feb 13 17:30	11° \approx 42'58	17°49'29	direct	10788 Jan 21 14:36	22° \mathcal{Z} 05'51	
	10787 Feb 26 07:53	0° \mathcal{H}		morning max el	10788 Jan 28 10:34	25° \mathcal{Z} 34'02	17°48'54
morning set	10787 Mar 02 11:37	7° \mathcal{H} 02'34			10788 Feb 01 04:02	0° \approx	
desc. node	10787 Mar 07 19:50	16° \mathcal{H} 04'03		morning set	10788 Feb 13 05:27	20° \approx 03'42	
					10788 Feb 18 19:56	0° \mathcal{H}	
superior conj	10787 Mar 15 12:50	28° \mathcal{H} 45'44	-0°55'32	desc. node	10788 Feb 22 16:35	6° \mathcal{H} 41'55	
minimum elong	10787 Mar 15 06:50	28° \mathcal{H} 21'28	0°54'38				
	10787 Mar 16 07:13	0° \mathcal{Y}		superior conj	10788 Feb 24 10:50	9° \mathcal{H} 41'59	-0°13'21
max. Earth dist.	10787 Mar 20 20:26	7° \mathcal{Y} 16'14	1.44915 AU	minimum elong	10788 Feb 24 09:35	9° \mathcal{H} 36'41	0°12'53
evening rise	10787 Mar 31 05:49	23° \mathcal{Y} 26'38		behind sun begin	10788 Feb 24 04:20	9° \mathcal{H} 14'26	
	10787 Apr 04 12:59	0° \mathcal{B}		behind sun end	10788 Feb 24 14:49	9° \mathcal{H} 58'54	
	10787 Apr 25 17:10	0° Π		max. Earth dist.	10788 Mar 02 12:17	21° \mathcal{H} 24'00	1.43570 AU
evening max el	10787 Apr 28 02:51	2° Π 37'37	20°20'57		10788 Mar 07 21:42	0° \mathcal{Y}	
asc. node	10787 May 01 01:37	5° Π 13'56		evening rise	10788 Mar 09 20:45	3° \mathcal{Y} 03'50	
retrograde	10787 May 06 01:03	7° Π 13'00			10788 Mar 27 23:57	0° \mathcal{B}	
evening set	10787 May 10 00:32	5° Π 41'51		evening max el	10788 Apr 10 00:05	16° \mathcal{B} 21'46	21°31'44
inferior conj	10787 May 15 07:37	29° \mathcal{B} 36'52	3°13'30	asc. node	10788 Apr 16 22:50	21° \mathcal{B} 18'35	
minimum elong	10787 May 15 06:47	29° \mathcal{B} 39'44	3°12'57	retrograde	10788 Apr 18 23:21	21° \mathcal{B} 38'30	
	10787 May 15 00:51	30° \mathcal{R} \mathcal{B}		evening set	10788 Apr 23 09:03	19° \mathcal{B} 51'52	
min. Earth dist.	10787 May 16 01:42	28° \mathcal{B} 35'01	0.67953 AU	inferior conj	10788 Apr 28 15:48	13° \mathcal{B} 35'53	2°58'35
morning rise	10787 May 20 12:46	23° \mathcal{B} 18'14		minimum elong	10788 Apr 28 14:10	13° \mathcal{B} 41'37	2°57'57
direct	10787 May 26 03:25	20° \mathcal{B} 48'37		min. Earth dist.	10788 Apr 28 20:39	13° \mathcal{B} 18'59	0.68536 AU

morning rise	10788 May 03 19:04	7°♄21'37			10789 Apr 11 08:18	30°♄♂	
direct	10788 May 08 20:36	5°♄09'28		min. Earth dist.	10789 Apr 12 17:19	28°♄♂07'22	0.68667 AU
morning max el	10788 May 18 22:09	11°♄07'24	22°53'52	inferior conj	10789 Apr 13 00:59	27°♄♂40'46	2°33'38
desc. node	10788 May 20 17:30	13°♄01'34		minimum elong	10789 Apr 12 22:53	27°♄♂48'04	2°32'54
	10788 Jun 02 21:41	0°♄		morning rise	10789 Apr 18 05:05	21°♄♂32'22	
morning set	10788 Jun 22 05:49	29°♄43'43		direct	10789 Apr 22 17:13	19°♄♂41'11	
	10788 Jun 22 09:45	0°♄		morning max el	10789 May 01 12:20	24°♄♂46'57	21°27'54
max. Earth dist.	10788 Jun 26 16:46	7°♄13'38	1.40057 AU		10789 May 06 03:59	0°♄	
				desc. node	10789 May 07 14:22	1°♄47'06	
superior conj	10788 Jul 04 11:32	20°♄59'39	-1°21'12		10789 May 27 07:35	0°♄	
minimum elong	10788 Jul 04 17:01	21°♄24'43	1°20'58	morning set	10789 Jun 02 04:42	9°♄♂09'21	
	10788 Jul 09 07:56	0°♄		max. Earth dist.	10789 Jun 08 18:55	19°♄♂47'27	1.42233 AU
asc. node	10788 Jul 13 21:39	8°♄41'20			10789 Jun 14 20:55	0°♄	
evening rise	10788 Jul 14 06:22	9°♄22'52					
	10788 Jul 26 00:43	0°♄		superior conj	10789 Jun 16 06:15	2°♄23'17	-1°50'11
evening max el	10788 Jul 30 07:02	5°♄12'10	18°29'31	minimum elong	10789 Jun 16 12:44	2°♄51'20	1°50'09
retrograde	10788 Aug 07 00:54	9°♄05'09		evening rise	10789 Jun 27 10:46	22°♄19'55	
evening set	10788 Aug 09 02:33	8°♄49'22		asc. node	10789 Jun 30 18:37	28°♄21'42	
inferior conj	10788 Aug 16 19:51	4°♄18'34	-0°02'44		10789 Jul 01 16:32	0°♄	
minimum elong	10788 Aug 16 19:44	4°♄18'48	0°03'00	evening max el	10789 Jul 13 17:18	18°♄01'32	18°07'53
transit middle	10788 Aug 16 19:44	4°♄18'48	0°03'00	retrograde	10789 Jul 20 13:44	21°♄30'42	
transit begin	10788 Aug 16 16:13	4°♄25'42		evening set	10789 Jul 22 23:01	21°♄05'43	
transit end	10788 Aug 16 23:15	4°♄11'53		inferior conj	10789 Jul 29 21:46	16°♄14'07	1°21'04
desc. node	10788 Aug 16 16:17	4°♄25'34		minimum elong	10789 Jul 30 00:04	16°♄08'49	1°19'52
min. Earth dist.	10788 Aug 20 03:12	1°♄43'47	0.57849 AU	min. Earth dist.	10789 Aug 02 04:37	13°♄14'57	0.60053 AU
	10788 Aug 22 15:17	30°♄♂		desc. node	10789 Aug 03 13:32	12°♄06'27	
morning rise	10788 Aug 24 09:23	29°♄00'34		morning rise	10789 Aug 05 22:09	10°♄26'10	
direct	10788 Aug 30 09:33	27°♄28'22		direct	10789 Aug 12 10:07	8°♄25'02	
	10788 Sep 07 08:44	0°♄		morning max el	10789 Aug 26 17:53	16°♄18'25	27°47'08
morning max el	10788 Sep 13 17:41	5°♄04'58	26°59'30		10789 Sep 06 23:47	0°♄	
	10788 Oct 02 01:06	0°♄			10789 Sep 24 14:14	0°♄	
asc. node	10788 Oct 09 22:15	14°♄39'48		asc. node	10789 Sep 26 19:04	4°♄27'08	
morning set	10788 Oct 13 18:33	22°♄36'47		morning set	10789 Sep 28 00:10	6°♄57'56	
	10788 Oct 17 04:24	0°♄		max. Earth dist.	10789 Oct 04 04:18	20°♄18'36	1.31493 AU
superior conj	10788 Oct 20 16:34	7°♄46'54	1°28'33	superior conj	10789 Oct 05 03:57	22°♄29'46	1°14'39
minimum elong	10788 Oct 20 14:46	7°♄36'50	1°28'41	minimum elong	10789 Oct 05 01:45	22°♄17'29	1°14'30
max. Earth dist.	10788 Oct 20 19:09	8°♄01'19	1.31484 AU		10789 Oct 08 13:04	0°♄	
evening rise	10788 Oct 27 11:56	22°♄41'57		evening rise	10789 Oct 11 21:10	7°♄17'12	
	10788 Oct 31 00:33	0°♄			10789 Oct 23 13:43	0°♄	
desc. node	10788 Nov 12 13:52	22°♄23'26		desc. node	10789 Oct 30 11:05	10°♄42'28	
	10788 Nov 17 20:08	0°♄		evening max el	10789 Nov 08 15:09	21°♄32'40	25°46'05
evening max el	10788 Nov 26 18:59	10°♄18'33	26°53'07	retrograde	10789 Nov 22 12:35	28°♄33'36	
retrograde	10788 Dec 10 17:18	17°♄27'40		evening set	10789 Nov 28 17:00	27°♄04'32	
evening set	10788 Dec 17 12:42	15°♄29'23		min. Earth dist.	10789 Dec 03 03:38	24°♄28'15	0.57876 AU
min. Earth dist.	10788 Dec 21 09:23	12°♄50'40	0.59945 AU	inferior conj	10789 Dec 06 04:08	22°♄21'01	-4°57'38
inferior conj	10788 Dec 24 13:26	10°♄16'42	-3°49'23	minimum elong	10789 Dec 06 11:54	22°♄07'20	4°55'22
minimum elong	10788 Dec 24 20:56	10°♄01'28	3°46'24	morning rise	10789 Dec 14 09:13	18°♄00'26	
morning rise	10789 Jan 01 07:50	5°♄33'33		direct	10789 Dec 16 14:45	17°♄44'47	
direct	10789 Jan 03 10:44	5°♄16'33		asc. node	10789 Dec 23 19:10	20°♄39'13	
asc. node	10789 Jan 05 22:04	5°♄40'42		morning max el	10789 Dec 25 05:24	21°♄55'26	18°46'14
morning max el	10789 Jan 10 23:46	9°♄01'30	18°07'14		10789 Dec 31 12:52	0°♄	
	10789 Jan 24 14:06	0°♄		morning set	10790 Jan 10 12:05	18°♄04'08	
morning set	10789 Jan 26 15:15	3°♄49'04			10790 Jan 16 15:06	0°♄	
superior conj	10789 Feb 05 08:56	21°♄45'44	0°24'23	superior conj	10790 Jan 19 03:01	4°♄45'32	0°54'39
minimum elong	10789 Feb 05 10:48	21°♄54'05	0°24'29	minimum elong	10790 Jan 19 06:02	4°♄59'46	0°54'42
desc. node	10789 Feb 08 13:22	27°♄23'09		desc. node	10790 Jan 26 10:12	18°♄04'24	
	10789 Feb 10 01:36	0°♄		max. Earth dist.	10790 Jan 26 07:38	17°♄53'05	1.39573 AU
max. Earth dist.	10789 Feb 12 23:57	4°♄58'59	1.41720 AU	evening rise	10790 Jan 30 06:57	24°♄44'23	
evening rise	10789 Feb 18 03:18	13°♄26'07			10790 Feb 02 10:44	0°♄	
	10789 Feb 28 19:52	0°♄			10790 Feb 22 14:00	0°♄	
evening max el	10789 Mar 23 16:55	0°♄08'00	22°50'13	evening max el	10790 Mar 06 07:06	13°♄56'48	24°10'31
	10789 Mar 23 13:44	0°♄		retrograde	10790 Mar 17 12:37	20°♄32'16	
retrograde	10789 Apr 02 19:37	6°♄06'33		asc. node	10790 Mar 21 17:21	19°♄10'50	
asc. node	10789 Apr 03 20:05	6°♄01'32		evening set	10790 Mar 22 21:31	18°♄17'20	
evening set	10789 Apr 07 16:33	4°♄05'02		min. Earth dist.	10790 Mar 27 13:31	12°♄55'00	0.68358 AU

inferior conj	10790 Mar 28 09:17	11° Υ 48'15	1°59'14	asc. node	10791 Mar 08 14:37	0° Υ 47'45	
minimum elong	10790 Mar 28 07:08	11° Υ 55'31	1°58'30		10791 Mar 09 07:58	30° \Re \mathfrak{H}	
morning rise	10790 Apr 02 16:49	5° Υ 46'58		min. Earth dist.	10791 Mar 11 07:06	27° \mathfrak{H} 36'36	0.67625 AU
direct	10790 Apr 06 15:55	4° Υ 17'41		inferior conj	10791 Mar 12 14:46	25° \mathfrak{H} 54'33	1°15'29
morning max el	10790 Apr 14 09:29	8° Υ 38'52	20°12'24	minimum elong	10791 Mar 12 13:06	25° \mathfrak{H} 59'58	1°14'58
desc. node	10790 Apr 24 11:11	21° Υ 10'19		morning rise	10791 Mar 18 04:18	20° \mathfrak{H} 01'46	
	10790 Apr 30 13:55	0° \mathfrak{Z}		direct	10791 Mar 21 15:20	18° \mathfrak{H} 53'02	
morning set	10790 May 12 07:17	17° \mathfrak{Z} 43'47		morning max el	10791 Mar 28 14:30	22° \mathfrak{H} 41'59	19°11'13
	10790 May 20 03:38	0° Π			10791 Apr 03 17:00	0° Υ	
max. Earth dist.	10790 May 22 04:26	3° Π 14'17	1.44011 AU	greatest brilliancy	10791 Apr 10 14:31	9° Υ 55'32	-0.7m
				desc. node	10791 Apr 11 07:56	11° Υ 00'55	
superior conj	10790 May 28 01:16	12° Π 44'50	-2°09'15	morning set	10791 Apr 21 09:06	26° Υ 23'47	
minimum elong	10790 May 28 05:15	13° Π 01'13	2°09'38		10791 Apr 23 17:01	0° \mathfrak{Z}	
	10790 Jun 07 07:21	0° \mathfrak{S}		max. Earth dist.	10791 May 04 19:42	17° \mathfrak{Z} 19'16	1.45190 AU
evening rise	10790 Jun 09 21:51	4° \mathfrak{S} 29'27					
asc. node	10790 Jun 17 15:37	17° \mathfrak{S} 44'13		superior conj	10791 May 07 21:17	22° \mathfrak{Z} 09'32	-2°11'47
	10790 Jun 26 02:25	0° Ω		minimum elong	10791 May 07 18:29	21° \mathfrak{Z} 58'28	2°12'09
evening max el	10790 Jun 27 06:46	1° Ω 15'01	18°05'28		10791 May 12 19:21	0° Π	
retrograde	10790 Jul 03 16:55	4° Ω 35'33		evening rise	10791 May 22 10:56	15° Π 41'46	
evening set	10790 Jul 06 10:04	3° Ω 58'31			10791 May 31 04:39	0° \mathfrak{S}	
	10790 Jul 11 13:35	30° \Re \mathfrak{S}		asc. node	10791 Jun 04 12:41	6° \mathfrak{S} 42'38	
inferior conj	10790 Jul 12 17:36	28° \mathfrak{S} 47'51	2°19'31	evening max el	10791 Jun 10 20:13	14° \mathfrak{S} 44'47	18°21'35
minimum elong	10790 Jul 12 20:20	28° \mathfrak{S} 40'42	2°18'17	retrograde	10791 Jun 17 05:56	18° \mathfrak{S} 10'36	
min. Earth dist.	10790 Jul 15 15:08	25° \mathfrak{S} 47'05	0.62314 AU	evening set	10791 Jun 20 06:57	17° \mathfrak{S} 19'37	
morning rise	10790 Jul 19 04:32	22° \mathfrak{S} 40'08		inferior conj	10791 Jun 26 03:15	11° \mathfrak{S} 51'54	2°55'38
desc. node	10790 Jul 21 10:45	21° \mathfrak{S} 18'15		minimum elong	10791 Jun 26 05:16	11° \mathfrak{S} 46'00	2°54'43
direct	10790 Jul 25 21:19	20° \mathfrak{S} 14'54		min. Earth dist.	10791 Jun 28 11:10	9° \mathfrak{S} 09'40	0.64388 AU
morning max el	10790 Aug 09 00:18	28° \mathfrak{S} 17'08	27°56'04	morning rise	10791 Jul 02 02:22	5° \mathfrak{S} 34'00	
	10790 Aug 10 16:01	0° Ω		desc. node	10791 Jul 08 07:54	2° \mathfrak{S} 54'26	
	10790 Aug 31 19:45	0° \mathfrak{P}		direct	10791 Jul 08 17:33	2° \mathfrak{S} 53'53	
morning set	10790 Sep 11 23:52	20° \mathfrak{P} 59'02		morning max el	10791 Jul 22 10:18	10° \mathfrak{S} 54'23	27°28'32
asc. node	10790 Sep 13 15:51	24° \mathfrak{P} 24'49			10791 Aug 06 12:10	0° Ω	
	10790 Sep 16 07:20	0° $\underline{\Omega}$			10791 Aug 24 06:36	0° \mathfrak{P}	
max. Earth dist.	10790 Sep 17 09:50	2° $\underline{\Omega}$ 22'33	1.31998 AU	morning set	10791 Aug 26 15:14	4° \mathfrak{P} 34'12	
				max. Earth dist.	10791 Aug 31 07:54	14° \mathfrak{P} 04'06	1.33016 AU
superior conj	10790 Sep 19 13:09	7° $\underline{\Omega}$ 01'50	0°55'31	asc. node	10791 Aug 31 12:39	14° \mathfrak{P} 28'49	
minimum elong	10790 Sep 19 11:01	6° $\underline{\Omega}$ 50'09	0°55'09				
evening rise	10790 Sep 26 08:19	21° $\underline{\Omega}$ 54'36		superior conj	10791 Sep 03 18:11	21° \mathfrak{P} 18'13	0°31'27
	10790 Sep 30 04:59	0° \mathfrak{M}		minimum elong	10791 Sep 03 16:43	21° \mathfrak{P} 10'21	0°31'00
desc. node	10790 Oct 17 08:20	27° \mathfrak{M} 54'35			10791 Sep 07 19:03	0° $\underline{\Omega}$	
	10790 Oct 19 04:47	0° \mathfrak{Z}		evening rise	10791 Sep 10 19:35	6° $\underline{\Omega}$ 29'30	
evening max el	10790 Oct 21 03:35	1° \mathfrak{Z} 59'10	24°14'18		10791 Sep 23 04:55	0° \mathfrak{M}	
retrograde	10790 Nov 03 20:01	8° \mathfrak{Z} 50'20		evening max el	10791 Oct 02 14:31	12° \mathfrak{M} 05'15	22°33'31
evening set	10790 Nov 08 20:56	7° \mathfrak{Z} 54'27		desc. node	10791 Oct 04 05:36	13° \mathfrak{M} 35'08	
min. Earth dist.	10790 Nov 14 14:24	5° \mathfrak{Z} 01'42	0.56096 AU	retrograde	10791 Oct 15 15:20	18° \mathfrak{M} 34'34	
inferior conj	10790 Nov 16 22:13	3° \mathfrak{Z} 35'43	-5°41'10	evening set	10791 Oct 19 04:34	18° \mathfrak{M} 06'52	
minimum elong	10790 Nov 17 01:45	3° \mathfrak{Z} 30'16	5°40'25	min. Earth dist.	10791 Oct 26 22:00	14° \mathfrak{M} 39'27	0.54922 AU
	10790 Nov 23 22:36	30° \Re \mathfrak{M}		inferior conj	10791 Oct 27 22:20	14° \mathfrak{M} 04'56	-5°38'32
morning rise	10790 Nov 25 08:40	29° \mathfrak{M} 36'25		minimum elong	10791 Oct 27 17:42	14° \mathfrak{M} 11'31	5°37'44
direct	10790 Nov 27 23:08	29° \mathfrak{M} 18'42		morning rise	10791 Nov 05 08:29	10° \mathfrak{M} 17'14	
	10790 Dec 01 19:24	0° \mathfrak{Z}		direct	10791 Nov 08 13:58	9° \mathfrak{M} 53'30	
morning max el	10790 Dec 07 23:39	4° \mathfrak{Z} 04'29	19°47'44	morning max el	10791 Nov 20 04:12	15° \mathfrak{M} 22'08	21°11'41
asc. node	10790 Dec 10 16:12	6° \mathfrak{Z} 58'14		asc. node	10791 Nov 27 13:10	24° \mathfrak{M} 21'45	
	10790 Dec 24 08:58	0° \mathfrak{Z}			10791 Dec 01 01:29	0° \mathfrak{Z}	
morning set	10790 Dec 25 16:13	2° \mathfrak{Z} 37'22		morning set	10791 Dec 10 00:56	17° \mathfrak{Z} 20'50	
					10791 Dec 16 01:44	0° \mathfrak{Z}	
superior conj	10791 Jan 02 12:08	18° \mathfrak{Z} 26'56	1°16'48				
minimum elong	10791 Jan 02 14:57	18° \mathfrak{Z} 40'54	1°17'02	superior conj	10791 Dec 17 08:06	2° \mathfrak{Z} 37'48	1°31'11
max. Earth dist.	10791 Jan 08 13:51	0° \approx 08'17	1.37367 AU	minimum elong	10791 Dec 17 10:00	2° \mathfrak{Z} 47'38	1°31'38
	10791 Jan 08 12:04	0° \approx		max. Earth dist.	10791 Dec 21 23:31	12° \mathfrak{Z} 02'01	1.35345 AU
evening rise	10791 Jan 12 07:15	6° \approx 55'52		evening rise	10791 Dec 26 01:11	19° \mathfrak{Z} 52'49	
desc. node	10791 Jan 13 07:04	8° \approx 41'30		desc. node	10791 Dec 31 03:59	29° \mathfrak{Z} 10'24	
	10791 Jan 26 07:41	0° \mathfrak{H}			10791 Dec 31 15:20	0° \approx	
evening max el	10791 Feb 16 20:21	27° \mathfrak{H} 46'34	25°26'02		10792 Jan 20 08:19	0° \mathfrak{H}	
	10791 Feb 19 06:08	0° Υ		evening max el	10792 Jan 30 09:46	11° \mathfrak{H} 32'56	26°29'31
retrograde	10791 Mar 01 01:24	4° Υ 49'41		retrograde	10792 Feb 12 08:59	18° \mathfrak{H} 51'48	
evening set	10791 Mar 06 22:20	2° Υ 23'56		evening set	10792 Feb 18 17:14	16° \mathfrak{H} 19'28	

min. Earth dist.	10792 Feb 22 19:55	12° H 06'26	0.66498 AU		10793 Jan 18 00:31	0° H	
asc. node	10792 Feb 23 11:52	11° H 18'48		retrograde	10793 Jan 25 10:30	2° H 31'02	
inferior conj	10792 Feb 24 15:26	9° H 55'23	0°22'25	evening set	10793 Feb 01 04:09	29° \approx 57'49	
minimum elong	10792 Feb 24 14:50	9° H 57'11	0°22'25		10793 Feb 01 03:00	30° R \approx	
morning rise	10792 Mar 01 13:25	4° H 12'50		min. Earth dist.	10793 Feb 05 01:48	26° \approx 17'50	0.65009 AU
direct	10792 Mar 04 13:45	3° H 21'53		inferior conj	10793 Feb 07 08:58	23° \approx 45'39	-0°39'46
morning max el	10792 Mar 11 02:11	6° H 51'04	18°26'06	minimum elong	10793 Feb 07 10:08	23° \approx 42'23	0°38'54
	10792 Mar 27 10:39	0° Y		asc. node	10793 Feb 09 09:04	21° \approx 36'55	
desc. node	10792 Mar 28 04:40	1° Y 11'16		morning rise	10793 Feb 13 17:42	18° \approx 15'46	
morning set	10792 Mar 31 07:50	6° Y 09'14		direct	10793 Feb 16 09:02	17° \approx 38'59	
	10792 Apr 15 11:20	0° B		morning max el	10793 Feb 22 18:18	20° \approx 59'46	17°57'53
					10793 Mar 01 17:51	0° H	
superior conj	10792 Apr 16 04:09	1° B 05'46	-1°54'01	morning set	10793 Mar 12 11:51	17° H 22'20	
minimum elong	10792 Apr 15 19:18	0° B 31'11	1°53'37	desc. node	10793 Mar 15 01:23	21° H 36'09	
max. Earth dist.	10792 Apr 16 14:14	1° B 45'11	1.45668 AU		10793 Mar 20 04:43	0° Y	
evening rise	10792 May 01 23:53	25° B 54'22					
	10792 May 04 14:09	0° II		superior conj	10793 Mar 26 15:51	10° Y 22'05	-1°19'28
greatest brilliancy	10792 May 11 13:53	10° II 58'17	-0.8m	minimum elong	10793 Mar 26 07:23	9° Y 48'30	1°18'31
asc. node	10792 May 21 09:47	25° II 07'50		max. Earth dist.	10793 Mar 30 10:08	16° Y 18'33	1.45404 AU
evening max el	10792 May 24 06:55	28° II 23'08	18°55'24		10793 Apr 08 05:12	0° B	
	10792 May 26 01:45	0° B		evening rise	10793 Apr 11 17:40	5° B 25'33	
retrograde	10792 May 31 00:51	2° B 07'03		greatest brilliancy	10793 Apr 25 21:05	26° B 51'21	-0.6m
evening set	10792 Jun 03 10:06	1° B 00'51			10793 Apr 28 01:01	0° II	
	10792 Jun 04 17:58	30° R II		evening max el	10793 May 07 12:59	12° II 05'42	19°45'31
inferior conj	10792 Jun 08 22:51	25° II 17'37	3°13'40	asc. node	10793 May 08 06:55	12° II 49'28	
minimum elong	10792 Jun 08 23:44	25° II 14'48	3°13'02	retrograde	10793 May 14 22:47	16° II 19'07	
min. Earth dist.	10792 Jun 10 15:46	23° II 08'31	0.66120 AU	evening set	10793 May 18 16:55	14° II 57'02	
morning rise	10792 Jun 14 12:44	18° II 56'30		inferior conj	10793 May 24 01:17	8° II 59'39	3°17'06
direct	10792 Jun 20 21:05	16° II 12'39		minimum elong	10793 May 24 01:02	9° II 00'29	3°16'34
desc. node	10792 Jun 24 04:58	16° II 50'56		min. Earth dist.	10793 May 25 03:28	7° II 32'11	0.67425 AU
morning max el	10792 Jul 03 20:59	23° II 56'55	26°31'22	morning rise	10793 May 29 08:50	2° II 39'31	
	10792 Jul 09 06:50	0° B		direct	10793 Jun 04 06:41	0° II 02'20	
	10792 Jul 29 21:26	0° Q		desc. node	10793 Jun 11 01:59	2° II 41'27	
morning set	10792 Aug 08 19:01	17° Q 34'27		morning max el	10793 Jun 16 06:57	7° II 14'30	25°13'44
max. Earth dist.	10792 Aug 12 19:39	25° Q 20'27	1.34537 AU		10793 Jul 04 00:16	0° B	
	10792 Aug 15 03:38	0° M		morning set	10793 Jul 22 07:07	29° B 49'15	
asc. node	10792 Aug 17 09:27	4° M 34'44			10793 Jul 22 09:31	0° Q	
				max. Earth dist.	10793 Jul 25 21:47	6° Q 25'22	1.36498 AU
superior conj	10792 Aug 17 16:43	5° M 12'13	0°02'59				
minimum elong	10792 Aug 17 16:34	5° M 11'26	0°02'40	superior conj	10793 Aug 01 05:50	18° Q 36'29	-0°28'55
behind sun begin	10792 Aug 17 10:46	4° M 41'33		minimum elong	10793 Aug 01 07:40	18° Q 45'33	0°28'59
behind sun end	10792 Aug 17 22:21	5° M 41'23		asc. node	10793 Aug 04 06:16	24° Q 38'53	
evening rise	10792 Aug 25 04:57	20° M 56'07			10793 Aug 06 21:33	0° M	
	10792 Aug 29 15:53	0° A		evening rise	10793 Aug 09 10:15	5° M 08'33	
evening max el	10792 Sep 13 09:26	22° A 28'31	21°00'22		10793 Aug 23 14:53	0° A	
desc. node	10792 Sep 20 02:53	27° A 14'40		evening max el	10793 Aug 26 17:46	3° A 33'33	19°45'03
retrograde	10792 Sep 25 02:49	28° A 17'28		retrograde	10793 Sep 05 18:40	8° A 32'45	
evening set	10792 Sep 27 11:19	28° A 04'22		desc. node	10793 Sep 07 00:11	8° A 28'34	
inferior conj	10792 Oct 06 14:19	24° A 09'14	-4°38'13	evening set	10793 Sep 07 15:35	8° A 23'08	
minimum elong	10792 Oct 06 04:30	24° A 23'07	4°35'31	inferior conj	10793 Sep 16 12:39	4° A 20'49	-2°55'03
min. Earth dist.	10792 Oct 07 05:43	23° A 47'26	0.54613 AU	minimum elong	10793 Sep 16 04:54	4° A 32'48	2°52'16
morning rise	10792 Oct 14 21:57	20° A 15'16		min. Earth dist.	10793 Sep 18 15:41	3° A 01'57	0.55256 AU
direct	10792 Oct 18 22:05	19° A 40'46		morning rise	10793 Sep 24 16:25	0° A 00'59	
morning max el	10792 Oct 31 20:44	25° A 53'36	22°53'21		10793 Sep 24 17:35	30° R M	
	10792 Nov 04 17:28	0° M		direct	10793 Sep 29 12:08	29° M 09'48	
asc. node	10792 Nov 13 10:05	12° M 35'14			10793 Oct 04 05:13	0° A	
	10792 Nov 22 11:42	0° A		morning max el	10793 Oct 13 07:51	6° A 01'16	24°40'43
morning set	10792 Nov 23 12:07	2° A 08'41			10793 Oct 30 12:09	0° M	
				asc. node	10793 Oct 31 06:57	1° M 26'17	
superior conj	10792 Nov 30 11:35	17° A 08'29	1°38'28	morning set	10793 Nov 07 23:54	16° M 55'21	
minimum elong	10792 Nov 30 12:18	17° A 12'21	1°39'00		10793 Nov 13 23:44	0° A	
max. Earth dist.	10792 Dec 03 16:45	23° A 56'22	1.33676 AU				
	10792 Dec 06 15:43	0° B		superior conj	10793 Nov 14 19:54	1° A 50'36	1°39'16
evening rise	10792 Dec 08 09:04	3° B 25'45		minimum elong	10793 Nov 14 19:28	1° A 48'13	1°39'45
desc. node	10792 Dec 17 00:58	19° B 26'12		max. Earth dist.	10793 Nov 16 18:00	6° A 02'00	1.32451 AU
	10792 Dec 23 11:06	0° \approx		evening rise	10793 Nov 22 03:27	17° A 25'09	
evening max el	10793 Jan 11 23:11	25° \approx 07'43	27°13'34		10793 Nov 28 14:35	0° B	

desc. node	10793 Dec 03 22:01	9°♄22'05			10794 Nov 21 12:43	0°♄	
	10793 Dec 17 22:58	0°♄		evening max el	10794 Dec 07 18:20	20°♄48'56	27°16'47
evening max el	10793 Dec 25 10:53	8°♄17'26	27°31'11	retrograde	10794 Dec 21 15:36	28°♄02'43	
retrograde	10794 Jan 08 04:55	15°♄37'37		evening set	10794 Dec 28 15:07	25°♄50'54	
evening set	10794 Jan 15 04:31	13°♄10'43		min. Earth dist.	10795 Jan 01 08:48	23°♄04'15	0.61171 AU
min. Earth dist.	10794 Jan 18 22:34	10°♄00'46	0.63205 AU	inferior conj	10795 Jan 04 10:55	20°♄22'12	-3°05'48
inferior conj	10794 Jan 21 16:32	7°♄17'20	-1°50'08	minimum elong	10795 Jan 04 17:11	20°♄08'28	3°02'57
minimum elong	10794 Jan 21 20:08	7°♄08'23	1°48'11	morning rise	10795 Jan 11 21:54	15°♄27'14	
asc. node	10794 Jan 27 06:16	2°♄39'53		direct	10795 Jan 14 01:46	15°♄07'50	
morning rise	10794 Jan 28 13:55	2°♄03'14		asc. node	10795 Jan 14 03:25	15°♄07'51	
direct	10794 Jan 30 22:15	1°♄36'57		morning max el	10795 Jan 21 03:47	18°♄41'37	17°54'21
morning max el	10794 Feb 06 11:55	4°♄59'25	17°47'03		10795 Jan 29 08:29	0°♄	
morning set	10794 Feb 22 17:42	29°♄49'44		morning set	10795 Feb 05 18:57	13°♄11'22	
	10794 Feb 22 20:04	0°♄			10795 Feb 15 03:45	0°♄	
desc. node	10794 Mar 01 22:07	12°♄10'19		superior conj	10795 Feb 16 08:01	2°♄03'03	0°03'29
superior conj	10794 Mar 06 23:26	20°♄37'04	-0°37'25	minimum elong	10795 Feb 16 08:21	2°♄04'29	0°03'45
minimum elong	10794 Mar 06 19:33	20°♄21'01	0°36'41	behind sun begin	10795 Feb 16 00:16	1°♄29'25	
	10794 Mar 12 18:07	0°♄		behind sun end	10795 Feb 16 16:26	2°♄39'28	
max. Earth dist.	10794 Mar 13 04:38	0°♄42'02	1.44422 AU	desc. node	10795 Feb 16 18:53	2°♄50'04	
evening rise	10794 Mar 22 05:09	14°♄49'35		max. Earth dist.	10795 Feb 23 18:59	14°♄37'49	1.42833 AU
	10794 Apr 01 06:15	0°♄		evening rise	10795 Mar 02 01:28	24°♄42'47	
evening max el	10794 Apr 20 13:24	25°♄49'27	20°49'45		10795 Mar 05 10:50	0°♄	
asc. node	10794 Apr 25 04:07	29°♄34'10			10795 Mar 26 05:57	0°♄	
	10794 Apr 26 00:11	0°♄		evening max el	10795 Apr 03 08:27	9°♄33'47	22°04'27
retrograde	10794 Apr 28 21:32	0°♄41'28		asc. node	10795 Apr 12 01:21	15°♄06'10	
	10794 May 01 14:50	30°♄08'08		retrograde	10795 Apr 12 19:14	15°♄08'53	
evening set	10794 May 03 01:21	29°♄03'28		evening set	10795 Apr 17 09:40	13°♄15'33	
inferior conj	10794 May 08 08:02	22°♄53'32	3°08'25	inferior conj	10795 Apr 22 16:53	6°♄55'26	2°49'10
minimum elong	10794 May 08 06:49	22°♄57'44	3°07'51	minimum elong	10795 Apr 22 15:00	7°♄02'01	2°48'30
min. Earth dist.	10794 May 08 20:19	22°♄11'06	0.68265 AU	min. Earth dist.	10795 Apr 22 16:15	6°♄57'40	0.68644 AU
morning rise	10794 May 13 12:04	16°♄36'49		morning rise	10795 Apr 27 20:11	0°♄43'35	
direct	10794 May 18 21:15	14°♄14'13			10795 Apr 28 18:31	30°♄07'07	
desc. node	10794 May 28 22:56	19°♄57'23		direct	10795 May 02 15:53	28°♄40'22	
morning max el	10794 May 29 16:39	20°♄41'17	23°45'36		10795 May 06 22:34	0°♄	
	10794 Jun 06 16:20	0°♄		morning max el	10795 May 12 04:20	4°♄15'52	22°16'25
	10794 Jun 27 05:23	0°♄		desc. node	10795 May 15 19:50	8°♄15'23	
morning set	10794 Jul 03 22:40	11°♄06'20			10795 May 31 19:48	0°♄	
max. Earth dist.	10794 Jul 07 19:09	17°♄46'52	1.38739 AU	morning set	10795 Jun 14 12:52	21°♄13'42	
	10794 Jul 14 12:28	0°♄		max. Earth dist.	10795 Jun 19 17:59	29°♄49'51	1.41013 AU
					10795 Jun 19 20:24	0°♄	
superior conj	10794 Jul 15 05:59	1°♄22'13	-1°02'21	superior conj	10795 Jun 27 12:44	13°♄18'27	-1°34'17
minimum elong	10794 Jul 15 10:12	1°♄42'04	1°02'10	minimum elong	10795 Jun 27 18:55	13°♄46'04	1°34'07
asc. node	10794 Jul 22 03:09	14°♄37'30			10795 Jul 06 15:10	0°♄	
evening rise	10794 Jul 24 08:47	18°♄59'43		evening rise	10795 Jul 07 21:02	2°♄19'40	
	10794 Jul 30 03:20	0°♄		asc. node	10795 Jul 09 00:04	4°♄25'51	
evening max el	10794 Aug 09 15:01	15°♄25'20	18°50'58	evening max el	10795 Jul 23 21:40	27°♄56'19	18°17'50
retrograde	10794 Aug 18 02:30	19°♄39'22			10795 Jul 26 09:05	0°♄	
evening set	10794 Aug 20 00:31	19°♄27'11		retrograde	10795 Jul 31 05:15	1°♄37'42	
desc. node	10794 Aug 24 21:29	17°♄22'00		evening set	10795 Aug 02 09:52	1°♄18'32	
inferior conj	10794 Aug 28 04:57	15°♄07'39	-1°01'52		10795 Aug 05 07:31	30°♄08'08	
minimum elong	10794 Aug 28 02:21	15°♄12'20	1°01'02	inferior conj	10795 Aug 09 18:59	26°♄38'48	0°35'56
min. Earth dist.	10794 Aug 31 06:17	12°♄56'47	0.56726 AU	minimum elong	10795 Aug 09 20:11	26°♄36'15	0°35'08
morning rise	10794 Sep 05 00:54	10°♄10'36		desc. node	10795 Aug 11 18:46	24°♄57'50	
direct	10794 Sep 10 15:19	8°♄55'18		min. Earth dist.	10795 Aug 13 03:31	23°♄50'42	0.58757 AU
morning max el	10794 Sep 24 21:33	16°♄17'53	26°16'23	morning rise	10795 Aug 17 03:04	21°♄06'29	
	10794 Oct 06 01:49	0°♄		direct	10795 Aug 23 08:49	19°♄21'48	
asc. node	10794 Oct 18 03:48	20°♄45'16		morning max el	10795 Sep 06 17:49	27°♄07'16	27°24'23
	10794 Oct 22 16:33	0°♄			10795 Sep 09 12:04	0°♄	
morning set	10794 Oct 23 10:41	1°♄36'23			10795 Sep 29 15:54	0°♄	
superior conj	10794 Oct 30 06:56	16°♄38'00	1°34'06	asc. node	10795 Oct 05 00:37	10°♄23'49	
minimum elong	10794 Oct 30 05:32	16°♄30'16	1°34'23	morning set	10795 Oct 07 18:42	16°♄06'06	
max. Earth dist.	10794 Oct 31 01:00	18°♄18'18	1.31698 AU		10795 Oct 14 03:37	0°♄	
	10794 Nov 05 09:50	0°♄		superior conj	10795 Oct 14 18:42	1°♄23'57	1°23'19
evening rise	10794 Nov 06 05:29	1°♄43'43		minimum elong	10795 Oct 14 16:41	1°♄12'38	1°23'19
desc. node	10794 Nov 20 19:09	28°♄49'56					

max. Earth dist.	10795 Oct 14 10:18	0° \mathbb{M} 37'07	1.31425 AU	evening rise	10796 Oct 04 22:56	0° \mathbb{M} 50'51	
evening rise	10795 Oct 21 12:40	16° \mathbb{M} 14'09			10796 Oct 04 13:30	0° \mathbb{M}	
	10795 Oct 28 07:31	0° \mathbb{X}			10796 Oct 20 15:48	0° \mathbb{X}	
desc. node	10795 Nov 07 16:20	17° \mathbb{X} 38'07		desc. node	10796 Oct 24 13:33	5° \mathbb{X} 31'13	
	10795 Nov 17 06:48	0° \mathbb{Z}		evening max el	10796 Oct 31 11:32	13° \mathbb{X} 23'57	25°09'16
evening max el	10795 Nov 19 18:58	2° \mathbb{Z} 31'47	26°28'15	retrograde	10796 Nov 14 08:07	20° \mathbb{X} 21'37	
retrograde	10795 Dec 03 17:24	9° \mathbb{Z} 38'16		evening set	10796 Nov 20 01:59	19° \mathbb{X} 06'55	
evening set	10795 Dec 10 07:51	7° \mathbb{Z} 51'16		min. Earth dist.	10796 Nov 24 23:33	16° \mathbb{X} 25'39	0.57059 AU
min. Earth dist.	10795 Dec 14 08:35	5° \mathbb{Z} 15'48	0.59043 AU	inferior conj	10796 Nov 27 18:36	14° \mathbb{X} 34'31	-5°20'27
inferior conj	10795 Dec 17 12:37	2° \mathbb{Z} 50'53	-4°20'10	minimum elong	10796 Nov 28 01:12	14° \mathbb{X} 23'31	5°18'50
minimum elong	10795 Dec 17 20:38	2° \mathbb{Z} 35'33	4°17'19	morning rise	10796 Dec 06 02:42	10° \mathbb{X} 23'18	
	10795 Dec 21 13:53	30° \mathbb{R} \mathbb{X}		direct	10796 Dec 08 10:59	10° \mathbb{X} 07'19	
morning rise	10795 Dec 25 12:07	28° \mathbb{X} 17'35		morning max el	10796 Dec 17 15:31	14° \mathbb{X} 32'25	19°09'35
direct	10795 Dec 27 15:18	28° \mathbb{X} 01'41		asc. node	10796 Dec 17 21:37	14° \mathbb{X} 47'18	
asc. node	10796 Jan 01 00:32	29° \mathbb{X} 12'50			10796 Dec 28 09:38	0° \mathbb{Z}	
	10796 Jan 02 06:50	0° \mathbb{Z}		morning set	10797 Jan 03 10:15	11° \mathbb{Z} 34'13	
morning max el	10796 Jan 04 14:19	1° \mathbb{Z} 56'25	18°21'15				
morning set	10796 Jan 20 09:56	27° \mathbb{Z} 10'33		superior conj	10797 Jan 11 16:14	27° \mathbb{Z} 51'14	1°05'01
	10796 Jan 21 21:27	0° \approx		minimum elong	10797 Jan 11 19:18	28° \mathbb{Z} 05'59	1°05'09
					10797 Jan 12 19:04	0° \approx	
superior conj	10796 Jan 29 15:14	14° \approx 32'30	0°38'12	max. Earth dist.	10797 Jan 18 10:31	10° \approx 28'52	1.38622 AU
minimum elong	10796 Jan 29 17:48	14° \approx 44'14	0°38'14	desc. node	10797 Jan 20 12:30	14° \approx 11'40	
desc. node	10796 Feb 03 15:41	23° \approx 31'49		evening rise	10797 Jan 22 05:23	17° \approx 10'07	
max. Earth dist.	10796 Feb 06 04:18	27° \approx 54'04	1.40820 AU		10797 Jan 29 22:49	0° \mathbb{H}	
	10796 Feb 07 09:55	0° \mathbb{H}			10797 Feb 20 02:17	0° \mathbb{Y}	
evening rise	10796 Feb 10 16:40	5° \mathbb{H} 28'16		evening max el	10797 Feb 26 13:27	7° \mathbb{Y} 10'39	24°43'48
	10796 Feb 26 15:06	0° \mathbb{Y}		retrograde	10797 Mar 10 05:44	13° \mathbb{Y} 59'20	
evening max el	10796 Mar 15 23:47	23° \mathbb{Y} 20'51	23°24'34	evening set	10797 Mar 15 19:40	11° \mathbb{Y} 39'41	
retrograde	10796 Mar 26 14:27	29° \mathbb{Y} 36'49		asc. node	10797 Mar 15 19:52	11° \mathbb{Y} 39'13	
asc. node	10796 Mar 28 22:36	29° \mathbb{Y} 10'44		min. Earth dist.	10797 Mar 20 08:31	6° \mathbb{Y} 32'02	0.68090 AU
evening set	10796 Mar 31 16:18	27° \mathbb{Y} 29'24		inferior conj	10797 Mar 21 09:15	5° \mathbb{Y} 09'52	1°41'51
min. Earth dist.	10796 Apr 05 13:05	21° \mathbb{Y} 46'35	0.68578 AU	minimum elong	10797 Mar 21 07:14	5° \mathbb{Y} 16'35	1°41'11
inferior conj	10796 Apr 06 01:56	21° \mathbb{Y} 02'20	2°20'13		10797 Mar 25 19:06	30° \mathbb{R} \mathbb{H}	
minimum elong	10796 Apr 05 23:45	21° \mathbb{Y} 09'51	2°19'28	morning rise	10797 Mar 26 19:00	29° \mathbb{H} 11'44	
morning rise	10796 Apr 11 07:09	14° \mathbb{Y} 56'38		direct	10797 Mar 30 12:51	27° \mathbb{H} 51'17	
direct	10796 Apr 15 13:34	13° \mathbb{Y} 14'52			10797 Apr 04 16:28	0° \mathbb{Y}	
morning max el	10796 Apr 23 21:16	18° \mathbb{Y} 01'01	20°54'15	morning max el	10797 Apr 06 21:37	1° \mathbb{Y} 57'22	19°44'28
desc. node	10796 May 01 16:40	27° \mathbb{Y} 18'44		desc. node	10797 Apr 18 13:26	16° \mathbb{Y} 54'31	
	10796 May 03 16:26	0° \mathbb{B}		greatest brilliancy	10797 Apr 19 17:11	18° \mathbb{Y} 35'28	-0.6m
	10796 May 23 22:09	0° \mathbb{II}			10797 Apr 27 08:24	0° \mathbb{B}	
morning set	10796 May 24 01:41	0° \mathbb{II} 13'44		morning set	10797 May 03 00:50	8° \mathbb{B} 41'17	
max. Earth dist.	10796 May 31 22:48	12° \mathbb{II} 45'55	1.43045 AU	max. Earth dist.	10797 May 14 10:41	26° \mathbb{B} 29'38	1.44594 AU
					10797 May 16 15:33	0° \mathbb{II}	
superior conj	10796 Jun 07 21:46	24° \mathbb{II} 16'48	-1°59'52				
minimum elong	10796 Jun 08 03:45	24° \mathbb{II} 42'05	2°00'02	superior conj	10797 May 19 06:28	4° \mathbb{II} 12'32	-2°12'42
	10796 Jun 11 06:15	0° \mathbb{E}		minimum elong	10797 May 19 07:58	4° \mathbb{II} 18'35	2°13'10
evening rise	10796 Jun 19 18:45	14° \mathbb{E} 58'26		evening rise	10797 Jun 01 20:54	26° \mathbb{II} 43'58	
asc. node	10796 Jun 24 21:03	23° \mathbb{E} 59'43			10797 Jun 03 19:12	0° \mathbb{E}	
	10796 Jun 28 09:49	0° \mathbb{Q}		asc. node	10797 Jun 11 18:04	13° \mathbb{E} 12'46	
evening max el	10796 Jul 06 09:48	10° \mathbb{Q} 57'46	18°04'32	evening max el	10797 Jun 19 23:42	24° \mathbb{E} 19'28	18°10'09
retrograde	10796 Jul 13 00:37	14° \mathbb{Q} 21'21		retrograde	10797 Jun 26 08:22	27° \mathbb{E} 40'13	
evening set	10796 Jul 15 13:12	13° \mathbb{Q} 51'38		evening set	10797 Jun 29 04:57	26° \mathbb{E} 57'21	
inferior conj	10796 Jul 22 05:03	8° \mathbb{Q} 52'02	1°48'47	inferior conj	10797 Jul 05 07:14	21° \mathbb{E} 39'19	2°37'16
minimum elong	10796 Jul 22 07:44	8° \mathbb{Q} 45'31	1°47'29	minimum elong	10797 Jul 05 09:45	21° \mathbb{E} 32'25	2°36'10
min. Earth dist.	10796 Jul 25 08:54	5° \mathbb{Q} 49'07	0.61028 AU	min. Earth dist.	10797 Jul 07 23:20	18° \mathbb{E} 44'22	0.63237 AU
morning rise	10796 Jul 28 23:37	2° \mathbb{Q} 54'18		morning rise	10797 Jul 11 12:55	15° \mathbb{E} 26'36	
desc. node	10796 Jul 28 16:00	3° \mathbb{Q} 07'12		desc. node	10797 Jul 15 13:10	13° \mathbb{E} 17'43	
direct	10796 Aug 04 14:38	0° \mathbb{Q} 41'36		direct	10797 Jul 18 05:56	12° \mathbb{E} 53'35	
morning max el	10796 Aug 18 20:53	8° \mathbb{Q} 40'29	27°55'29	morning max el	10797 Aug 01 04:54	20° \mathbb{E} 55'57	27°48'25
	10796 Sep 04 06:01	0° \mathbb{P}			10797 Aug 09 01:01	0° \mathbb{Q}	
morning set	10796 Sep 20 22:04	0° \mathbb{U} 19'26			10797 Aug 28 08:18	0° \mathbb{P}	
asc. node	10796 Sep 20 21:26	0° \mathbb{U} 16'08		morning set	10797 Sep 04 18:35	14° \mathbb{P} 10'33	
	10796 Sep 20 18:18	0° \mathbb{U}		asc. node	10797 Sep 07 18:13	20° \mathbb{P} 17'13	
max. Earth dist.	10796 Sep 26 18:09	12° \mathbb{U} 48'50	1.31646 AU	max. Earth dist.	10797 Sep 09 20:53	24° \mathbb{P} 44'06	1.32371 AU
					10797 Sep 12 07:39	0° \mathbb{U}	
superior conj	10796 Sep 28 05:25	16° \mathbb{U} 03'06	1°07'10				
minimum elong	10796 Sep 28 03:10	15° \mathbb{U} 50'42	1°06'54	superior conj	10797 Sep 12 13:08	0° \mathbb{U} 29'46	0°45'54

minimum elong	10797 Sep 12 11:13	0° Ω 19'17	0°45'29	superior conj	10798 Aug 27 15:43	14° Π 37'22	0°19'53
evening rise	10797 Sep 19 10:23	15° Ω 28'25		minimum elong	10798 Aug 27 14:43	14° Π 32'07	0°19'28
	10797 Sep 26 14:07	0° Π		evening rise	10798 Sep 03 21:07	0° Ω 00'45	
desc. node	10797 Oct 11 10:48	22° Π 08'17			10798 Sep 03 20:58	0° Ω	
evening max el	10797 Oct 12 22:33	23° Π 38'55	23°31'31		10798 Sep 21 01:30	0° Π	
	10797 Oct 23 07:17	0° \mathcal{A}		evening max el	10798 Sep 24 11:46	3° Π 47'44	21°52'08
retrograde	10797 Oct 26 09:52	0° \mathcal{A} 22'00		desc. node	10798 Sep 28 08:05	7° Π 01'21	
	10797 Oct 29 13:39	30° $\mathcal{R}\Pi$		retrograde	10798 Oct 07 00:39	10° Π 01'59	
evening set	10797 Oct 30 19:58	29° Π 39'30		evening set	10798 Oct 10 00:13	9° Π 42'00	
min. Earth dist.	10797 Nov 06 08:35	26° Π 34'06	0.55508 AU	inferior conj	10798 Oct 18 23:28	5° Π 44'20	-5°19'47
inferior conj	10797 Nov 08 04:27	25° Π 29'28	-5°46'50	minimum elong	10798 Oct 18 15:48	5° Π 55'04	5°18'13
minimum elong	10797 Nov 08 04:42	25° Π 29'06	5°46'24	min. Earth dist.	10798 Oct 18 15:28	5° Π 55'32	0.54679 AU
morning rise	10797 Nov 16 15:14	21° Π 36'32		morning rise	10798 Oct 27 08:43	1° Π 57'00	
direct	10797 Nov 19 11:40	21° Π 16'36		direct	10798 Oct 30 22:03	1° Π 29'19	
morning max el	10797 Nov 30 04:00	26° Π 20'04	20°20'45	morning max el	10798 Nov 12 02:53	7° Π 16'14	21°53'18
	10797 Dec 03 12:38	0° \mathcal{A}		asc. node	10798 Nov 21 15:34	19° Π 22'21	
asc. node	10797 Dec 04 18:37	1° \mathcal{A} 36'03			10798 Nov 27 16:16	0° \mathcal{A}	
morning set	10797 Dec 18 16:41	26° \mathcal{A} 13'17		morning set	10798 Dec 03 02:42	10° \mathcal{A} 59'32	
	10797 Dec 20 12:44	0° \mathcal{B}					
superior conj	10797 Dec 26 06:27	11° \mathcal{B} 46'43	1°23'48	superior conj	10798 Dec 10 06:00	26° \mathcal{A} 07'07	1°35'06
minimum elong	10797 Dec 26 08:56	11° \mathcal{B} 59'16	1°24'08	minimum elong	10798 Dec 10 07:25	26° \mathcal{A} 14'32	1°35'36
max. Earth dist.	10797 Dec 31 17:59	22° \mathcal{B} 34'11	1.36478 AU		10798 Dec 12 02:40	0° \mathcal{B}	
evening rise	10798 Jan 04 13:43	29° \mathcal{B} 42'39		max. Earth dist.	10798 Dec 14 06:52	4° \mathcal{B} 27'14	1.34589 AU
	10798 Jan 04 17:31	0° \approx		evening rise	10798 Dec 18 14:02	12° \mathcal{B} 55'45	
desc. node	10798 Jan 07 09:24	4° \approx 46'05		desc. node	10798 Dec 25 06:21	25° \mathcal{B} 09'55	
	10798 Jan 23 04:23	0° \mathcal{H}			10798 Dec 28 02:09	0° \approx	
evening max el	10798 Feb 09 02:56	21° \mathcal{H} 00'31	25°54'58	evening max el	10799 Jan 18 05:05	0° \mathcal{H}	
retrograde	10798 Feb 21 16:13	28° \mathcal{H} 10'53		retrograde	10799 Jan 22 16:24	4° \mathcal{H} 42'42	26°50'55
evening set	10798 Feb 27 18:08	25° \mathcal{H} 41'57		evening set	10799 Feb 04 21:08	12° \mathcal{H} 04'15	
asc. node	10798 Mar 02 17:07	22° \mathcal{H} 43'03		min. Earth dist.	10799 Feb 11 09:54	9° \mathcal{H} 30'31	
min. Earth dist.	10798 Mar 04 00:18	21° \mathcal{H} 09'17	0.67198 AU	inferior conj	10799 Feb 15 10:16	5° \mathcal{H} 32'05	0.65914 AU
inferior conj	10798 Mar 05 12:57	19° \mathcal{H} 14'20	0°54'09	minimum elong	10799 Feb 17 10:51	3° \mathcal{H} 10'55	-0°02'52
minimum elong	10798 Mar 05 11:39	19° \mathcal{H} 18'25	0°53'48	transit middle	10799 Feb 17 10:56	3° \mathcal{H} 10'43	0°02'32
morning rise	10798 Mar 11 05:45	13° \mathcal{H} 25'35		transit begin	10799 Feb 17 08:01	3° \mathcal{H} 19'13	
direct	10798 Mar 14 12:11	12° \mathcal{H} 24'37		transit end	10799 Feb 17 13:51	3° \mathcal{H} 02'13	
morning max el	10798 Mar 21 05:38	16° \mathcal{H} 03'16	18°49'58	asc. node	10799 Feb 17 14:21	3° \mathcal{H} 00'46	
	10798 Mar 31 21:16	0° Υ			10799 Feb 20 08:38	30° $\mathcal{R}\approx$	
desc. node	10798 Apr 05 10:11	6° Υ 54'09		morning rise	10799 Feb 23 13:10	27° \approx 33'40	
morning set	10798 Apr 12 09:28	17° Υ 43'20		direct	10799 Feb 26 09:31	26° \approx 49'10	
	10798 Apr 20 06:29	0° \mathcal{B}			10799 Mar 04 14:10	0° \mathcal{H}	
max. Earth dist.	10798 Apr 27 04:06	10° \mathcal{B} 46'55	1.45489 AU	morning max el	10799 Mar 04 19:35	0° \mathcal{H} 13'07	18°12'02
				desc. node	10799 Mar 23 06:56	27° \mathcal{H} 11'07	
superior conj	10798 Apr 28 18:56	13° \mathcal{B} 19'11	-2°06'42	morning set	10799 Mar 23 20:31	28° \mathcal{H} 05'54	
minimum elong	10798 Apr 28 13:00	12° \mathcal{B} 55'55	2°06'48		10799 Mar 25 00:51	0° Υ	
	10798 May 09 07:39	0° Π					
evening rise	10798 May 13 23:34	7° Π 29'40		superior conj	10799 Apr 08 01:29	22° Υ 17'23	-1°40'55
	10798 May 28 05:52	0° \mathcal{E}		minimum elong	10799 Apr 07 15:59	21° Υ 40'06	1°40'12
asc. node	10798 May 29 15:07	1° \mathcal{E} 57'46		max. Earth dist.	10799 Apr 09 23:53	25° Υ 19'05	1.45644 AU
evening max el	10798 Jun 03 12:16	7° \mathcal{E} 53'19	18°33'53		10799 Apr 12 23:49	0° \mathcal{B}	
retrograde	10798 Jun 10 00:18	11° \mathcal{E} 25'07		evening rise	10799 Apr 24 03:18	17° \mathcal{B} 21'29	
evening set	10798 Jun 13 04:52	10° \mathcal{E} 27'35			10799 May 02 06:49	0° Π	
inferior conj	10798 Jun 18 21:30	4° \mathcal{E} 52'53	3°05'16	greatest brilliancy	10799 May 05 19:46	5° Π 24'31	-0.7m
minimum elong	10798 Jun 18 23:04	4° \mathcal{E} 48'08	3°04'29	asc. node	10799 May 16 12:13	20° Π 05'47	
min. Earth dist.	10798 Jun 20 22:59	2° \mathcal{E} 23'41	0.65174 AU	evening max el	10799 May 17 21:06	21° Π 33'28	19°14'49
	10798 Jun 23 02:58	30° $\mathcal{R}\Pi$		retrograde	10799 May 24 20:58	25° Π 28'58	
morning rise	10798 Jun 24 16:22	28° Π 33'07		evening set	10799 May 28 09:52	24° Π 16'00	
direct	10798 Jul 01 05:10	25° Π 50'23		inferior conj	10799 Jun 02 20:22	18° Π 26'18	3°16'45
desc. node	10798 Jul 02 10:16	25° Π 55'26		minimum elong	10799 Jun 02 20:46	18° Π 25'01	3°16'11
	10798 Jul 10 12:42	0° \mathcal{E}		min. Earth dist.	10799 Jun 04 06:51	16° Π 34'22	0.66722 AU
morning max el	10798 Jul 14 15:27	3° \mathcal{E} 45'03	27°07'27	morning rise	10799 Jun 08 07:11	12° Π 05'03	
	10798 Aug 03 11:16	0° Ω		direct	10799 Jun 14 11:16	9° Π 23'09	
morning set	10798 Aug 19 05:26	27° Ω 31'44		desc. node	10799 Jun 19 07:19	10° Π 43'54	
	10798 Aug 20 11:53	0° Π		morning max el	10799 Jun 27 02:13	16° Π 56'02	26°00'26
max. Earth dist.	10798 Aug 23 15:04	6° Π 15'54	1.33606 AU		10799 Jul 07 23:02	0° \mathcal{E}	
asc. node	10798 Aug 25 14:59	10° Π 22'18			10799 Jul 27 09:34	0° Ω	
				morning set	10799 Aug 02 03:09	10° Ω 14'23	

max. Earth dist.	10799 Aug 05 22:43	17°Ω26'11	1.35321 AU		10800 Jun 30 20:28	0°Ω	
				morning set	10800 Jul 14 07:08	22°Ω05'54	
superior conj	10799 Aug 11 10:38	28°Ω19'33	-0°10'13	max. Earth dist.	10800 Jul 17 21:36	28°Ω32'00	1.37423 AU
minimum elong	10799 Aug 11 11:15	28°Ω22'42	0°10'26		10800 Jul 18 16:53	0°Ω	
behind sun begin	10799 Aug 11 06:35	27°Ω59'01					
behind sun end	10799 Aug 11 15:55	28°Ω46'25		superior conj	10800 Jul 24 18:40	11°Ω27'49	-0°43'03
asc. node	10799 Aug 12 11:48	0°Π27'52		minimum elong	10800 Jul 24 21:29	11°Ω41'31	0°43'00
	10799 Aug 12 06:21	0°Π		asc. node	10800 Jul 29 08:38	20°Ω29'35	
evening rise	10799 Aug 19 05:05	14°Ω22'20		evening rise	10800 Aug 02 07:49	28°Ω25'51	
	10799 Aug 27 05:31	0°Ω			10800 Aug 03 02:43	0°Π	
evening max el	10799 Sep 06 11:59	14°Ω26'31	20°25'49	evening max el	10800 Aug 19 02:08	25°Π51'26	19°19'31
desc. node	10799 Sep 15 05:21	19°Ω41'14			10800 Aug 25 07:54	0°Ω	
retrograde	10799 Sep 17 12:53	19°Ω55'17		retrograde	10800 Aug 28 10:23	0°Ω30'08	
evening set	10799 Sep 19 14:10	19°Ω44'43		evening set	10800 Aug 30 06:33	0°Ω20'06	
inferior conj	10799 Sep 28 16:25	15°Ω47'45	-3°57'55		10800 Aug 31 15:50	30°RΠ	
minimum elong	10799 Sep 28 06:43	16°Ω01'53	3°54'49	desc. node	10800 Sep 01 02:39	29°Π51'20	
min. Earth dist.	10799 Sep 29 23:58	15°Ω01'43	0.54772 AU	inferior conj	10800 Sep 07 21:24	26°Π11'40	-2°06'28
morning rise	10799 Oct 06 22:42	11°Ω44'46		minimum elong	10800 Sep 07 15:48	26°Π20'52	2°04'24
direct	10799 Oct 11 06:48	11°Ω04'17		min. Earth dist.	10800 Sep 10 12:00	24°Π29'10	0.55790 AU
morning max el	10799 Oct 24 16:19	17°Ω34'32	23°39'16	morning rise	10800 Sep 15 22:21	21°Π36'14	
	10799 Nov 03 17:41	0°Π		direct	10800 Sep 21 02:16	20°Π35'26	
asc. node	10799 Nov 08 12:29	7°Π52'50		morning max el	10800 Oct 05 03:45	27°Π42'02	25°23'49
morning set	10799 Nov 17 14:22	25°Π47'19			10800 Oct 07 10:14	0°Ω	
	10799 Nov 19 13:25	0°♂		asc. node	10800 Oct 25 09:21	26°Ω56'30	
					10800 Oct 26 23:15	0°Π	
superior conj	10799 Nov 24 11:52	10°♂43'31	1°39'34	morning set	10800 Nov 01 01:56	10°Π31'56	
minimum elong	10799 Nov 24 12:05	10°♂44'42	1°40'06				
max. Earth dist.	10799 Nov 27 03:27	16°♂24'33	1.33098 AU	superior conj	10800 Nov 07 21:37	25°Π28'47	1°37'47
evening rise	10799 Dec 02 02:46	26°♂40'32		minimum elong	10800 Nov 07 20:45	25°Π23'58	1°38'12
	10799 Dec 03 19:06	0°Ω		max. Earth dist.	10800 Nov 09 07:19	28°Π34'14	1.32069 AU
desc. node	10799 Dec 12 03:22	15°Ω17'42			10800 Nov 09 23:00	0°♂	
	10799 Dec 21 10:09	0°≈		evening rise	10800 Nov 15 00:44	10°♂49'05	
evening max el	10800 Jan 05 05:04	18°≈07'13	27°24'31		10800 Nov 25 01:22	0°Ω	
retrograde	10800 Jan 18 19:55	25°≈30'40		desc. node	10800 Nov 28 00:26	5°Ω02'41	
evening set	10800 Jan 25 16:42	22°≈58'49			10800 Dec 16 13:34	0°≈	
min. Earth dist.	10800 Jan 29 12:25	19°≈32'21	0.64276 AU	evening max el	10800 Dec 17 15:22	1°≈02'42	27°29'15
inferior conj	10800 Feb 01 00:30	16°≈53'39	-1°08'46	retrograde	10800 Dec 31 11:33	8°≈20'59	
minimum elong	10800 Feb 01 02:38	16°≈47'59	1°07'26	evening set	10801 Jan 07 11:45	5°≈59'27	
asc. node	10800 Feb 04 11:34	13°≈30'49		min. Earth dist.	10801 Jan 11 05:04	3°≈00'17	0.62355 AU
morning rise	10800 Feb 07 14:28	11°≈30'25		inferior conj	10801 Jan 14 02:57	0°≈15'35	-2°21'53
direct	10800 Feb 10 02:28	10°≈58'41		minimum elong	10801 Jan 14 07:42	0°≈04'22	2°19'29
morning max el	10800 Feb 16 12:47	14°≈19'03	17°51'07		10801 Jan 14 09:33	30°RΩ	
	10800 Feb 27 14:59	0°♂		morning rise	10801 Jan 21 06:06	25°Ω09'08	
morning set	10800 Mar 04 12:13	9°♂52'17		asc. node	10801 Jan 21 08:47	25°Ω06'57	
desc. node	10800 Mar 09 03:40	17°♂40'07		direct	10801 Jan 23 12:01	24°Ω46'19	
	10800 Mar 16 15:47	0°Υ		morning max el	10801 Jan 30 06:08	28°Ω12'52	17°47'49
					10801 Jan 31 21:49	0°≈	
superior conj	10800 Mar 17 20:24	1°Υ55'28	-1°01'58	morning set	10801 Feb 15 03:12	22°≈45'38	
minimum elong	10800 Mar 17 13:41	1°Υ28'26	1°01'02		10801 Feb 19 05:40	0°♂	
max. Earth dist.	10800 Mar 22 19:03	9°Υ48'15	1.45062 AU	desc. node	10801 Feb 24 00:26	8°♂17'11	
evening rise	10800 Apr 02 16:25	26°Υ43'57					
	10800 Apr 04 19:41	0°♂		superior conj	10801 Feb 26 14:40	12°♂41'09	-0°19'34
greatest brilliancy	10800 Apr 17 15:26	19°♂12'07	-0.6m	minimum elong	10801 Feb 26 12:46	12°♂33'09	0°19'03
	10800 Apr 25 11:20	0°Π		max. Earth dist.	10801 Mar 05 11:42	24°♂00'48	1.43812 AU
evening max el	10800 Apr 30 00:42	5°Π15'53	20°11'20		10801 Mar 09 05:41	0°Υ	
asc. node	10800 May 02 09:23	7°Π24'36		evening rise	10801 Mar 13 06:05	6°Υ17'03	
retrograde	10800 May 07 19:33	9°Π45'22			10801 Mar 29 03:15	0°♂	
evening set	10800 May 11 17:35	8°Π16'40		evening max el	10801 Apr 12 22:49	19°♂00'10	21°20'32
inferior conj	10800 May 17 00:56	2°Π13'39	3°14'47	asc. node	10801 Apr 19 06:36	23°♂40'25	
minimum elong	10800 May 17 00:15	2°Π16'00	3°14'15	retrograde	10801 Apr 21 18:00	24°♂10'13	
min. Earth dist.	10800 May 17 21:08	1°Π04'57	0.67832 AU	evening set	10801 Apr 26 02:10	22°♂25'49	
	10800 May 18 16:31	30°R♂		inferior conj	10801 May 01 08:51	16°♂11'26	3°01'28
morning rise	10800 May 22 06:37	25°♂54'27		minimum elong	10801 May 01 07:18	16°♂16'47	3°00'51
direct	10800 May 27 23:11	23°♂22'35		min. Earth dist.	10801 May 01 15:37	15°♂47'52	0.68487 AU
desc. node	10800 Jun 05 04:20	27°♂13'23		morning rise	10801 May 06 12:14	9°♂56'30	
	10800 Jun 08 04:52	0°Π		direct	10801 May 11 15:49	7°♂41'25	
morning max el	10800 Jun 08 11:56	0°Π17'46	24°36'56	morning max el	10801 May 21 21:54	13°♂46'50	23°07'06

desc. node	10801 May 23 01:18	14°♄57'54		desc. node	10802 May 09 22:10	3°♄36'37	
	10801 Jun 04 00:26	0°♄			10802 May 28 14:08	0°♄	
	10801 Jun 23 18:18	0°♄		morning set	10802 Jun 05 15:06	12°♄30'01	
morning set	10801 Jun 25 12:15	2°♄53'30		max. Earth dist.	10802 Jun 11 19:51	22°♄33'12	1.41930 AU
max. Earth dist.	10801 Jun 29 18:22	10°♄06'14	1.39722 AU		10802 Jun 16 06:17	0°♄	
superior conj	10801 Jul 07 11:57	23°♄53'21	-1°16'20	superior conj	10802 Jun 19 09:59	5°♄26'06	-1°46'16
minimum elong	10801 Jul 07 17:08	24°♄17'12	1°16'07	minimum elong	10802 Jun 19 16:30	5°♄54'27	1°46'12
	10801 Jul 10 18:42	0°♄		evening rise	10802 Jun 30 09:02	25°♄07'47	
asc. node	10801 Jul 16 05:31	10°♄23'48		asc. node	10802 Jul 03 02:27	0°♄06'31	
evening rise	10801 Jul 17 02:24	12°♄04'00			10802 Jul 03 01:01	0°♄	
	10801 Jul 27 00:44	0°♄		evening max el	10802 Jul 16 13:23	20°♄45'41	18°09'47
evening max el	10801 Aug 02 03:55	8°♄00'42	18°34'25	retrograde	10802 Jul 23 12:20	24°♄17'37	
retrograde	10801 Aug 10 01:54	11°♄58'33		evening set	10802 Jul 25 20:23	23°♄54'14	
evening set	10801 Aug 12 02:35	11°♄43'47		inferior conj	10802 Aug 01 21:43	19°♄05'31	1°10'02
desc. node	10801 Aug 18 23:57	7°♄59'16		minimum elong	10802 Aug 01 23:48	19°♄00'49	1°08'53
inferior conj	10801 Aug 19 22:46	7°♄15'56	-0°17'35	min. Earth dist.	10802 Aug 05 05:17	16°♄08'33	0.59714 AU
minimum elong	10801 Aug 19 22:04	7°♄17'16	0°17'35	desc. node	10802 Aug 05 21:13	15°♄35'20	
min. Earth dist.	10801 Aug 23 05:02	4°♄46'49	0.57543 AU	morning rise	10802 Aug 09 00:07	13°♄21'16	
morning rise	10801 Aug 27 14:05	2°♄03'20		direct	10802 Aug 15 10:39	11°♄24'23	
direct	10801 Sep 02 11:57	0°♄35'36		morning max el	10802 Aug 29 18:54	19°♄15'47	27°42'32
morning max el	10801 Sep 16 19:40	8°♄08'38	26°49'27		10802 Sep 07 21:39	0°♄	
	10801 Oct 03 06:33	0°♄			10802 Sep 26 01:11	0°♄	
asc. node	10801 Oct 12 06:11	16°♄24'13		asc. node	10802 Sep 29 02:58	6°♄09'10	
morning set	10801 Oct 16 11:43	25°♄08'08		morning set	10802 Sep 30 17:59	9°♄31'24	
	10801 Oct 18 17:50	0°♄		max. Earth dist.	10802 Oct 07 01:04	23°♄10'21	1.31459 AU
superior conj	10801 Oct 23 09:09	10°♄15'51	1°30'12	superior conj	10802 Oct 07 20:41	24°♄59'17	1°17'06
minimum elong	10801 Oct 23 07:27	10°♄06'20	1°30'22	minimum elong	10802 Oct 07 18:30	24°♄47'10	1°17'00
max. Earth dist.	10801 Oct 23 15:43	10°♄52'24	1.31521 AU		10802 Oct 10 02:45	0°♄	
evening rise	10801 Oct 30 05:13	25°♄13'22		evening rise	10802 Oct 14 13:57	9°♄47'09	
	10801 Nov 01 12:12	0°♄			10802 Oct 24 20:08	0°♄	
desc. node	10801 Nov 14 21:34	24°♄15'01		desc. node	10802 Nov 01 18:45	12°♄41'52	
	10801 Nov 18 17:59	0°♄		evening max el	10802 Nov 11 17:44	24°♄36'07	25°57'54
evening max el	10801 Nov 29 20:28	13°♄15'20	27°00'26		10802 Nov 19 03:19	0°♄	
retrograde	10801 Dec 13 18:29	20°♄25'23		retrograde	10802 Nov 25 15:25	1°♄38'29	
evening set	10801 Dec 20 15:19	18°♄23'24		evening set	10802 Dec 01 22:54	0°♄04'30	
min. Earth dist.	10801 Dec 24 10:59	15°♄43'02	0.60265 AU		10802 Dec 02 02:36	30°♄	
inferior conj	10801 Dec 27 14:44	13°♄06'32	-3°38'05	min. Earth dist.	10802 Dec 06 06:25	27°♄29'07	0.58172 AU
minimum elong	10801 Dec 27 21:57	12°♄51'34	3°35'04	inferior conj	10802 Dec 09 08:18	25°♄16'44	-4°48'26
morning rise	10802 Jan 04 07:16	8°♄20'08		minimum elong	10802 Dec 09 16:16	25°♄02'25	4°45'59
direct	10802 Jan 06 10:19	8°♄02'35		morning rise	10802 Dec 17 12:06	20°♄52'57	
asc. node	10802 Jan 08 05:57	8°♄15'55		direct	10802 Dec 19 16:52	20°♄37'20	
morning max el	10802 Jan 13 20:08	11°♄44'15	18°03'13	asc. node	10802 Dec 26 03:02	23°♄00'14	
	10802 Jan 25 23:23	0°♄		morning max el	10802 Dec 28 03:07	24°♄43'25	18°39'04
morning set	10802 Jan 29 10:57	6°♄25'14			10803 Jan 01 12:55	0°♄	
superior conj	10802 Feb 08 09:22	24°♄35'09	0°19'06	morning set	10803 Jan 13 06:21	20°♄36'03	
minimum elong	10802 Feb 08 10:54	24°♄41'56	0°19'14		10803 Jan 18 02:39	0°♄	
desc. node	10802 Feb 10 21:11	28°♄57'51		superior conj	10803 Jan 22 00:45	7°♄27'07	0°50'33
	10802 Feb 11 11:31	0°♄		minimum elong	10803 Jan 22 03:42	7°♄40'55	0°50'37
max. Earth dist.	10802 Feb 16 00:12	7°♄41'52	1.42025 AU	desc. node	10803 Jan 28 17:59	19°♄38'55	
evening rise	10802 Feb 21 09:44	16°♄31'08		max. Earth dist.	10803 Jan 29 08:16	20°♄41'30	1.39900 AU
	10802 Mar 02 02:03	0°♄		evening rise	10803 Feb 02 10:04	27°♄40'14	
	10802 Mar 24 02:03	0°♄			10803 Feb 03 19:35	0°♄	
evening max el	10802 Mar 26 16:12	2°♄45'54	22°38'12		10803 Feb 23 15:36	0°♄	
retrograde	10802 Apr 05 14:40	8°♄38'16		evening max el	10803 Mar 09 06:32	16°♄33'39	23°58'42
asc. node	10802 Apr 06 03:52	8°♄36'48		retrograde	10803 Mar 20 08:16	23°♄04'26	
evening set	10802 Apr 10 09:57	6°♄38'46		asc. node	10803 Mar 24 01:09	22°♄00'26	
inferior conj	10802 Apr 15 18:00	0°♄15'31	2°38'02	evening set	10803 Mar 25 15:22	20°♄51'14	
minimum elong	10802 Apr 15 15:57	0°♄22'40	2°37'19	min. Earth dist.	10803 Mar 30 08:30	15°♄23'41	0.68429 AU
min. Earth dist.	10802 Apr 15 12:08	0°♄35'56	0.68680 AU	inferior conj	10803 Mar 31 02:31	14°♄22'29	2°05'05
	10802 Apr 15 22:28	30°♄		minimum elong	10803 Mar 31 00:21	14°♄29'52	2°04'19
morning rise	10802 Apr 20 21:49	24°♄06'16		morning rise	10803 Apr 05 09:23	8°♄20'05	
direct	10802 Apr 25 11:55	22°♄11'57		direct	10803 Apr 09 10:19	6°♄47'40	
morning max el	10802 May 04 11:20	27°♄25'00	21°40'09	morning max el	10803 Apr 17 07:22	11°♄14'59	20°22'48
	10802 May 06 21:24	0°♄		desc. node	10803 Apr 26 18:58	22°♄54'37	

	10803 May 01 18:33	0°♄				10804 Apr 03 14:51	0°♅	
morning set	10803 May 15 19:47	21°♄09'21		greatest brilliancy		10804 Apr 12 06:39	12°♅07'50	-0.7m
	10803 May 21 11:39	0°♄		desc. node		10804 Apr 12 15:44	12°♅41'36	
max. Earth dist.	10803 May 25 04:12	5°♄52'26	1.43776 AU	morning set		10804 Apr 23 20:08	29°♅43'49	
						10804 Apr 24 00:19	0°♄	
superior conj	10803 May 31 08:38	15°♄56'50	-2°07'17	max. Earth dist.		10804 May 06 18:25	19°♄51'27	1.45057 AU
minimum elong	10803 May 31 13:18	16°♄16'10	2°07'37					
	10803 Jun 08 16:19	0°♄		superior conj		10804 May 10 07:42	25°♄28'50	-2°12'41
evening rise	10803 Jun 12 23:02	7°♄25'11		minimum elong		10804 May 10 06:05	25°♄22'23	2°13'07
asc. node	10803 Jun 19 23:26	19°♄32'07				10804 May 13 03:39	0°♄	
	10803 Jun 26 18:06	0°♄		evening rise		10804 May 24 15:35	18°♄46'02	
evening max el	10803 Jun 30 02:35	3°♄56'07	18°04'36			10804 May 31 10:34	0°♄	
retrograde	10803 Jul 06 13:41	7°♄17'07		asc. node		10804 Jun 05 20:28	8°♄34'32	
evening set	10803 Jul 09 05:36	6°♄42'07		evening max el		10804 Jun 12 16:14	17°♄23'54	18°18'03
inferior conj	10803 Jul 15 15:10	1°♄34'15	2°12'10	retrograde		10804 Jun 19 01:26	20°♄47'58	
minimum elong	10803 Jul 15 17:55	1°♄27'09	2°10'53	evening set		10804 Jun 22 01:16	19°♄59'12	
	10803 Jul 17 03:39	30°♄		inferior conj		10804 Jun 27 23:01	14°♄34'02	2°51'23
min. Earth dist.	10803 Jul 18 14:29	28°♄32'11	0.61985 AU	minimum elong		10804 Jun 28 01:11	14°♄27'48	2°50'24
morning rise	10803 Jul 22 04:01	25°♄28'39		min. Earth dist.		10804 Jun 30 09:08	11°♄47'54	0.64102 AU
desc. node	10803 Jul 23 18:26	24°♄28'28		morning rise		10804 Jul 03 23:45	8°♄17'12	
direct	10803 Jul 28 20:29	23°♄06'23		desc. node		10804 Jul 09 15:35	5°♄41'50	
	10803 Aug 10 20:27	0°♄		direct		10804 Jul 10 15:37	5°♄38'26	
morning max el	10803 Aug 12 00:37	1°♄08'21	27°57'06	morning max el		10804 Jul 24 10:09	13°♄40'01	27°34'36
	10803 Sep 02 02:51	0°♄				10804 Aug 06 14:15	0°♄	
morning set	10803 Sep 14 18:42	23°♄35'40				10804 Aug 24 17:18	0°♄	
asc. node	10803 Sep 15 23:44	26°♄05'19		morning set		10804 Aug 28 11:28	7°♄14'56	
	10803 Sep 17 20:25	0°♄		asc. node		10804 Sep 01 20:31	16°♄08'26	
max. Earth dist.	10803 Sep 20 07:17	5°♄16'13	1.31892 AU	max. Earth dist.		10804 Sep 02 06:32	17°♄00'44	1.32833 AU
superior conj	10803 Sep 22 06:18	9°♄33'03	0°58'44	superior conj		10804 Sep 05 12:06	23°♄52'04	0°35'23
minimum elong	10803 Sep 22 04:07	9°♄21'05	0°58'24	minimum elong		10804 Sep 05 10:29	23°♄43'25	0°34'58
evening rise	10803 Sep 29 00:55	24°♄24'07				10804 Sep 08 08:14	0°♄	
	10803 Oct 01 16:26	0°♄		evening rise		10804 Sep 12 12:16	8°♄59'33	
desc. node	10803 Oct 19 15:58	0°♄05'03				10804 Sep 23 08:03	0°♄	
	10803 Oct 19 14:19	0°♄		evening max el		10804 Oct 04 17:37	15°♄14'48	22°48'22
evening max el	10803 Oct 24 06:57	5°♄07'46	24°28'54	desc. node		10804 Oct 05 13:14	16°♄01'12	
retrograde	10803 Nov 07 00:50	12°♄01'09		retrograde		10804 Oct 17 21:43	21°♄48'12	
evening set	10803 Nov 12 06:27	11°♄00'26		evening set		10804 Oct 21 16:13	21°♄17'09	
min. Earth dist.	10803 Nov 17 18:07	8°♄11'12	0.56325 AU	min. Earth dist.		10804 Oct 29 02:05	17°♄55'51	0.55046 AU
inferior conj	10803 Nov 20 05:20	6°♄38'19	-5°37'08	inferior conj		10804 Oct 30 07:42	17°♄13'30	-5°42'40
minimum elong	10803 Nov 20 09:50	6°♄31'13	5°36'10	minimum elong		10804 Oct 30 04:19	17°♄18'22	5°42'02
morning rise	10803 Nov 28 15:23	2°♄36'13		morning rise		10804 Nov 07 18:05	13°♄24'51	
direct	10803 Dec 01 03:56	2°♄19'08		direct		10804 Nov 10 21:05	13°♄02'14	
morning max el	10803 Dec 10 23:14	6°♄59'23	19°37'12	morning max el		10804 Nov 22 05:50	18°♄24'31	20°57'54
asc. node	10803 Dec 13 00:03	9°♄07'39		asc. node		10804 Nov 28 21:02	26°♄22'21	
	10803 Dec 25 20:00	0°♄				10804 Dec 01 05:51	0°♄	
morning set	10803 Dec 28 09:34	5°♄06'47		morning set		10804 Dec 11 17:45	19°♄48'58	
						10804 Dec 16 14:42	0°♄	
superior conj	10804 Jan 05 07:54	21°♄02'58	1°13'56					
minimum elong	10804 Jan 05 10:48	21°♄17'16	1°14'08	superior conj		10804 Dec 19 02:28	5°♄09'50	1°29'28
	10804 Jan 09 23:24	0°♄		minimum elong		10804 Dec 19 04:31	5°♄20'27	1°29'53
max. Earth dist.	10804 Jan 11 14:10	3°♄00'38	1.37683 AU	max. Earth dist.		10804 Dec 23 23:00	14°♄55'55	1.35624 AU
evening rise	10804 Jan 15 07:27	9°♄44'14		evening rise		10804 Dec 27 23:00	22°♄34'59	
desc. node	10804 Jan 15 14:49	10°♄16'49		desc. node		10805 Jan 01 11:42	0°♄47'04	
	10804 Jan 27 13:52	0°♄				10805 Jan 01 01:02	0°♄	
	10804 Feb 19 10:19	0°♄				10805 Jan 20 08:03	0°♄	
evening max el	10804 Feb 19 19:47	0°♄23'26	25°15'26	evening max el		10805 Feb 01 09:15	14°♄11'02	26°21'11
retrograde	10804 Mar 02 21:48	7°♄23'30		retrograde		10805 Feb 14 06:11	21°♄28'08	
evening set	10804 Mar 08 16:54	4°♄59'12		evening set		10805 Feb 20 12:46	18°♄56'38	
asc. node	10804 Mar 09 22:24	3°♄50'33		min. Earth dist.		10805 Feb 24 16:22	14°♄38'28	0.66688 AU
min. Earth dist.	10804 Mar 13 02:40	0°♄06'34	0.67756 AU	asc. node		10805 Feb 24 19:39	14°♄28'36	
	10804 Mar 13 04:42	30°♄		inferior conj		10805 Feb 26 10:04	12°♄31'23	0°31'07
inferior conj	10804 Mar 14 08:33	28°♄29'24	1°22'47	minimum elong		10805 Feb 26 09:16	12°♄33'51	0°31'01
minimum elong	10804 Mar 14 06:46	28°♄35'14	1°22'12	morning rise		10805 Mar 04 06:37	6°♄47'03	
morning rise	10804 Mar 19 21:00	22°♄35'08		direct		10805 Mar 07 08:30	5°♄53'35	
direct	10804 Mar 23 09:45	21°♄23'30		morning max el		10805 Mar 13 22:00	9°♄24'55	18°31'46
morning max el	10804 Mar 30 11:13	25°♄16'37	19°19'19			10805 Mar 28 17:19	0°♄	

desc. node	10805 Mar 30 12:28	2°♿49'19		minimum elong	10806 Feb 10 05:41	26°♿20'52	0°29'02
morning set	10805 Apr 03 14:51	9°♿17'07		asc. node	10806 Feb 11 16:53	24°♿44'17	
	10805 Apr 16 19:22	0°♿		morning rise	10806 Feb 16 11:49	20°♿51'20	
				direct	10806 Feb 19 04:26	20°♿12'37	
superior conj	10805 Apr 19 15:31	4°♿26'25	-1°57'58	morning max el	10806 Feb 25 13:37	23°♿33'47	18°01'01
minimum elong	10805 Apr 19 07:13	3°♿54'00	1°57'41		10806 Mar 02 19:34	0°♿	
max. Earth dist.	10805 Apr 19 12:44	4°♿15'32	1.45648 AU	morning set	10806 Mar 15 14:32	20°♿17'12	
evening rise	10805 May 05 07:59	29°♿06'41		desc. node	10806 Mar 17 09:13	23°♿12'07	
	10805 May 05 21:26	0°♿			10806 Mar 21 13:19	0°♿	
greatest brilliancy	10805 May 14 02:21	12°♿58'48	-0.8m				
asc. node	10805 May 23 17:34	27°♿05'13		superior conj	10806 Mar 30 01:17	13°♿36'11	-1°25'26
	10805 May 26 04:08	0°♿		minimum elong	10806 Mar 29 16:23	13°♿00'57	1°24'30
evening max el	10805 May 27 03:32	1°♿01'20	18°49'18	max. Earth dist.	10806 Apr 02 08:52	18°♿49'32	1.45493 AU
retrograde	10805 Jun 02 19:37	4°♿41'33			10806 Apr 09 12:54	0°♿	
evening set	10805 Jun 06 03:40	3°♿37'35		evening rise	10806 Apr 15 04:00	8°♿42'05	
	10805 Jun 10 00:50	30°♿		greatest brilliancy	10806 Apr 28 17:25	29°♿20'11	-0.7m
inferior conj	10805 Jun 11 17:20	27°♿56'36	3°11'54		10806 Apr 29 04:12	0°♿	
minimum elong	10805 Jun 11 18:25	27°♿53'15	3°11'14	evening max el	10806 May 10 10:23	14°♿43'20	19°37'06
min. Earth dist.	10805 Jun 13 12:30	25°♿41'58	0.65891 AU	asc. node	10806 May 10 14:42	14°♿54'10	
morning rise	10805 Jun 17 08:26	21°♿35'46		retrograde	10806 May 17 17:19	18°♿51'39	
direct	10805 Jun 23 18:07	18°♿51'49		evening set	10806 May 21 10:06	17°♿31'52	
desc. node	10805 Jun 26 12:41	19°♿18'23		inferior conj	10806 May 26 18:57	11°♿36'21	3°17'22
morning max el	10805 Jul 06 20:49	26°♿39'03	26°41'24	minimum elong	10806 May 26 18:51	11°♿36'38	3°16'50
	10805 Jul 09 23:27	0°♿		min. Earth dist.	10806 May 27 23:13	10°♿02'32	0.67259 AU
	10805 Jul 31 05:02	0°♿		morning rise	10806 Jun 01 03:15	5°♿15'56	
morning set	10805 Aug 11 17:14	20°♿21'03		direct	10806 Jun 07 02:48	2°♿37'22	
max. Earth dist.	10805 Aug 15 20:00	28°♿21'00	1.34279 AU	desc. node	10806 Jun 13 09:45	4°♿53'30	
	10805 Aug 16 15:49	0°♿		morning max el	10806 Jun 19 07:01	9°♿55'06	25°26'15
asc. node	10805 Aug 19 17:19	6°♿14'24			10806 Jul 05 04:10	0°♿	
					10806 Jul 23 19:34	0°♿	
superior conj	10805 Aug 20 11:48	7°♿50'09	0°07'34	morning set	10806 Jul 25 07:59	2°♿43'15	
minimum elong	10805 Aug 20 11:24	7°♿48'06	0°07'13	max. Earth dist.	10806 Jul 28 23:34	9°♿26'49	1.36183 AU
behind sun begin	10805 Aug 20 06:12	7°♿21'03					
behind sun end	10805 Aug 20 16:37	8°♿15'11		superior conj	10806 Aug 04 02:33	21°♿19'14	-0°23'54
evening rise	10805 Aug 27 22:06	23°♿28'06		minimum elong	10806 Aug 04 04:03	21°♿26'41	0°24'01
	10805 Aug 31 02:12	0°♿		asc. node	10806 Aug 06 14:08	26°♿18'53	
evening max el	10805 Sep 16 10:58	25°♿34'09	21°13'18		10806 Aug 08 09:35	0°♿	
desc. node	10805 Sep 22 10:32	0°♿01'37		evening rise	10806 Aug 12 04:11	7°♿43'10	
	10805 Sep 22 09:14	0°♿			10806 Aug 24 09:59	0°♿	
retrograde	10805 Sep 28 09:41	1°♿29'52		evening max el	10806 Aug 29 17:10	6°♿31'52	19°54'58
evening set	10805 Sep 30 21:38	1°♿15'22		retrograde	10806 Sep 09 00:16	11°♿38'48	
	10805 Oct 04 20:23	30°♿		desc. node	10806 Sep 09 07:51	11°♿38'32	
inferior conj	10805 Oct 10 00:08	27°♿20'06	-4°50'45	evening set	10806 Sep 10 21:52	11°♿29'07	
minimum elong	10805 Oct 09 14:38	27°♿33'28	4°48'19	inferior conj	10806 Sep 19 20:39	7°♿28'25	-3°12'09
min. Earth dist.	10805 Oct 10 09:31	27°♿06'55	0.54601 AU	minimum elong	10806 Sep 19 12:15	7°♿41'12	3°09'11
morning rise	10805 Oct 18 08:12	23°♿28'35		min. Earth dist.	10806 Sep 21 18:56	6°♿18'08	0.55102 AU
direct	10805 Oct 22 05:38	22°♿55'56		morning rise	10806 Sep 28 01:12	3°♿13'34	
morning max el	10805 Nov 03 23:50	29°♿02'04	22°37'26	direct	10806 Oct 02 17:53	2°♿25'27	
	10805 Nov 04 23:42	0°♿		morning max el	10806 Oct 16 11:18	9°♿11'24	24°25'02
asc. node	10805 Nov 15 17:58	14°♿29'25			10806 Oct 31 19:13	0°♿	
	10805 Nov 23 23:41	0°♿		asc. node	10806 Nov 02 14:51	3°♿15'22	
morning set	10805 Nov 26 04:43	4°♿36'49		morning set	10806 Nov 10 16:34	19°♿24'00	
					10806 Nov 15 13:31	0°♿	
superior conj	10805 Dec 03 05:02	19°♿38'12	1°37'48				
minimum elong	10805 Dec 03 05:57	19°♿43'01	1°38'19	superior conj	10806 Nov 17 12:49	4°♿19'01	1°39'33
max. Earth dist.	10805 Dec 06 15:14	26°♿50'13	1.33902 AU	minimum elong	10806 Nov 17 12:33	4°♿17'34	1°40'02
	10805 Dec 08 04:15	0°♿		max. Earth dist.	10806 Nov 19 15:26	8°♿53'58	1.32606 AU
evening rise	10805 Dec 11 05:06	6°♿03'17		evening rise	10806 Nov 24 22:08	19°♿59'02	
desc. node	10805 Dec 19 08:42	21°♿05'09			10806 Nov 30 00:56	0°♿	
	10805 Dec 24 17:10	0°♿		desc. node	10806 Dec 06 05:44	11°♿04'15	
evening max el	10806 Jan 14 22:50	27°♿48'12	27°08'28		10806 Dec 18 19:28	0°♿	
	10806 Jan 17 09:14	0°♿		evening max el	10806 Dec 28 10:50	11°♿01'53	27°30'22
retrograde	10806 Jan 28 08:31	5°♿10'59		retrograde	10807 Jan 11 04:02	18°♿22'56	
evening set	10806 Feb 04 01:01	2°♿37'31		evening set	10807 Jan 18 03:09	15°♿54'25	
	10806 Feb 06 22:07	30°♿		min. Earth dist.	10807 Jan 21 21:32	12°♿40'28	0.63494 AU
min. Earth dist.	10806 Feb 07 23:22	28°♿52'48	0.65256 AU	inferior conj	10807 Jan 24 14:04	9°♿57'52	-1°39'04
inferior conj	10806 Feb 10 04:49	26°♿23'17	-0°29'46	minimum elong	10807 Jan 24 17:16	9°♿49'46	1°37'16

asc. node	10807 Jan 29 14:06	5°≈36'49		minimum elong	10808 Jan 07 16:32	22°≈54'00	2°51'30
morning rise	10807 Jan 31 09:30	4°≈41'22		morning rise	10808 Jan 14 19:37	18°≈09'15	
direct	10807 Feb 02 18:44	4°≈13'46		asc. node	10808 Jan 16 11:18	17°≈50'19	
morning max el	10807 Feb 09 07:14	7°≈35'15	17°47'34	direct	10808 Jan 16 23:53	17°≈49'08	
	10807 Feb 24 05:02	0°≈		morning max el	10808 Jan 23 23:38	21°≈20'45	17°52'03
morning set	10807 Feb 25 16:56	2°≈34'29			10808 Jan 30 13:21	0°≈	
desc. node	10807 Mar 04 05:57	13°≈45'02		morning set	10808 Feb 08 15:40	15°≈49'02	
					10808 Feb 16 13:58	0°≈	
superior conj	10807 Mar 10 05:23	23°≈41'05	-0°43'52				
minimum elong	10807 Mar 10 00:45	23°≈22'04	0°43'05	superior conj	10808 Feb 19 10:16	4°≈56'34	-0°02'26
	10807 Mar 14 02:51	0°≈		minimum elong	10808 Feb 19 10:05	4°≈55'46	0°02'07
max. Earth dist.	10807 Mar 16 03:42	3°≈15'17	1.44606 AU	behind sun begin	10808 Feb 19 01:42	4°≈19'42	
evening rise	10807 Mar 25 15:26	18°≈04'35		behind sun end	10808 Feb 19 18:28	5°≈31'46	
	10807 Apr 02 12:10	0°≈		desc. node	10808 Feb 19 02:40	4°≈23'51	
evening max el	10807 Apr 23 11:36	28°≈26'49	20°39'23	max. Earth dist.	10808 Feb 26 18:32	17°≈15'13	1.43097 AU
	10807 Apr 25 02:54	0°≈		evening rise	10808 Mar 04 09:34	27°≈51'16	
asc. node	10807 Apr 27 11:54	1°≈48'35			10808 Mar 05 18:32	0°≈	
retrograde	10807 May 01 16:08	3°≈12'57			10808 Mar 26 06:14	0°≈	
evening set	10807 May 05 18:26	1°≈37'17		evening max el	10808 Apr 05 07:21	12°≈10'50	21°52'52
	10807 May 07 11:58	30°≈		asc. node	10808 Apr 13 09:09	17°≈32'35	
inferior conj	10807 May 11 01:12	25°≈29'00	3°10'26	retrograde	10808 Apr 14 14:08	17°≈39'41	
minimum elong	10807 May 11 00:07	25°≈32'44	3°09'53	evening set	10808 Apr 19 02:51	15°≈48'42	
min. Earth dist.	10807 May 11 15:29	24°≈39'48	0.68166 AU	inferior conj	10808 Apr 24 09:52	9°≈29'55	2°52'45
morning rise	10807 May 16 05:35	19°≈11'33		minimum elong	10808 Apr 24 08:03	9°≈36'13	2°52'05
direct	10807 May 21 16:39	16°≈46'27		min. Earth dist.	10808 Apr 24 11:08	9°≈25'30	0.68614 AU
desc. node	10807 May 31 06:45	21°≈58'20		morning rise	10808 Apr 29 13:05	3°≈17'09	
morning max el	10807 Jun 01 16:45	23°≈21'11	23°59'02	direct	10808 May 04 10:49	1°≈10'46	
	10807 Jun 07 13:46	0°≈		morning max el	10808 May 14 03:52	6°≈54'19	22°29'24
	10807 Jun 28 12:56	0°≈		desc. node	10808 May 17 03:39	10°≈08'07	
morning set	10807 Jul 07 02:58	14°≈09'58			10808 Jun 01 00:50	0°≈	
max. Earth dist.	10807 Jul 10 21:14	20°≈43'56	1.38396 AU	morning set	10808 Jun 16 21:08	24°≈28'10	
	10807 Jul 15 23:28	0°≈			10808 Jun 20 05:31	0°≈	
				max. Earth dist.	10808 Jun 21 19:13	2°≈38'32	1.40684 AU
superior conj	10807 Jul 18 04:53	4°≈11'08	-0°57'17				
minimum elong	10807 Jul 18 08:45	4°≈29'26	0°57'08	superior conj	10808 Jun 29 14:31	16°≈15'22	-1°29'44
asc. node	10807 Jul 24 11:00	16°≈18'26		minimum elong	10808 Jun 29 20:29	16°≈42'15	1°29'31
evening rise	10807 Jul 27 03:57	21°≈37'56			10808 Jul 07 01:33	0°≈	
	10807 Jul 31 11:47	0°≈		evening rise	10808 Jul 09 17:58	5°≈03'00	
evening max el	10807 Aug 12 12:38	18°≈16'29	18°57'39	asc. node	10808 Jul 10 07:53	6°≈08'30	
retrograde	10807 Aug 21 05:17	22°≈36'42			10808 Jul 25 01:42	0°≈	
evening set	10807 Aug 23 02:33	22°≈25'15		evening max el	10808 Jul 25 18:09	0°≈42'20	18°21'28
desc. node	10807 Aug 27 05:10	20°≈50'26		retrograde	10808 Aug 02 05:07	4°≈27'25	
inferior conj	10807 Aug 31 09:50	18°≈08'43	-1°18'29	evening set	10808 Aug 04 08:37	4°≈09'33	
minimum elong	10807 Aug 31 06:28	18°≈14'37	1°17'19		10808 Aug 11 07:23	30°≈	
min. Earth dist.	10807 Sep 03 08:51	16°≈04'44	0.56463 AU	inferior conj	10808 Aug 11 20:36	29°≈33'00	0°22'38
morning rise	10807 Sep 08 07:11	13°≈17'09		minimum elong	10808 Aug 11 21:23	29°≈31'23	0°22'00
direct	10807 Sep 13 18:52	12°≈05'50		desc. node	10808 Aug 13 02:27	28°≈31'18	
morning max el	10807 Sep 28 00:18	19°≈24'43	26°03'34	min. Earth dist.	10808 Aug 15 05:01	26°≈49'02	0.58434 AU
	10807 Oct 07 00:02	0°≈		morning rise	10808 Aug 19 06:37	24°≈05'28	
asc. node	10807 Oct 20 11:43	22°≈30'22		direct	10808 Aug 25 10:35	22°≈25'02	
	10807 Oct 24 04:58	0°≈			10808 Sep 08 16:12	0°≈	
morning set	10807 Oct 26 03:35	4°≈05'53		morning max el	10808 Sep 08 19:25	0°≈07'48	27°16'28
					10808 Sep 30 00:31	0°≈	
superior conj	10807 Nov 01 23:34	19°≈05'48	1°35'15	asc. node	10808 Oct 06 08:32	12°≈06'16	
minimum elong	10807 Nov 01 22:18	18°≈58'47	1°35'34	morning set	10808 Oct 09 12:07	18°≈37'32	
max. Earth dist.	10807 Nov 02 21:39	21°≈08'08	1.31777 AU		10808 Oct 14 17:33	0°≈	
	10807 Nov 06 23:04	0°≈					
evening rise	10807 Nov 08 23:09	4°≈14'48		superior conj	10808 Oct 16 11:20	3°≈52'27	1°25'17
	10807 Nov 22 17:49	0°≈		minimum elong	10808 Oct 16 09:23	3°≈41'33	1°25'21
desc. node	10807 Nov 23 02:49	0°≈36'39		max. Earth dist.	10808 Oct 16 06:44	3°≈26'51	1.31430 AU
evening max el	10807 Dec 10 19:00	23°≈39'28	27°21'05	evening rise	10808 Oct 23 05:41	18°≈44'00	
	10807 Dec 20 01:08	0°≈			10808 Oct 28 17:47	0°≈	
retrograde	10807 Dec 24 16:07	0°≈54'44		desc. node	10808 Nov 08 23:58	19°≈31'50	
	10807 Dec 29 03:00	30°≈			10808 Nov 16 17:22	0°≈	
evening set	10807 Dec 31 16:04	28°≈40'00		evening max el	10808 Nov 21 20:53	5°≈30'44	26°37'44
min. Earth dist.	10808 Jan 04 09:24	25°≈50'30	0.61480 AU	retrograde	10808 Dec 05 19:27	12°≈38'20	
inferior conj	10808 Jan 07 10:39	23°≈07'10	-2°54'15	evening set	10808 Dec 12 11:48	10°≈47'14	

min. Earth dist.	10808 Dec 16 10:52	8° S 10'55	0.59354 AU	inferior conj	10809 Dec 01 00:07	17° S 33'18	-5°13'01
inferior conj	10808 Dec 19 15:06	5° S 42'27	-4°09'27	minimum elong	10809 Dec 01 07:15	17° S 21'11	5°11'09
minimum elong	10808 Dec 19 22:59	5° S 27'02	4°06'31	morning rise	10809 Dec 09 07:18	13° S 18'47	
morning rise	10808 Dec 27 12:54	1° S 05'39		direct	10809 Dec 11 14:29	13° S 03'00	
direct	10808 Dec 29 15:48	0° S 49'29		asc. node	10809 Dec 20 05:30	17° S 02'52	
asc. node	10809 Jan 02 08:26	1° S 41'09		morning max el	10809 Dec 20 13:59	17° S 22'57	19°00'55
morning max el	10809 Jan 06 11:12	4° S 40'41	18°15'52		10809 Dec 29 16:48	0° S	
morning set	10809 Jan 22 04:56	29° S 43'55		morning set	10810 Jan 06 04:06	14° S 04'49	
	10809 Jan 22 08:20	0° \approx			10810 Jan 14 06:50	0° \approx	
superior conj	10809 Jan 31 14:24	17° \approx 17'35	0°33'24	superior conj	10810 Jan 14 13:04	0° \approx 29'50	1°01'27
minimum elong	10809 Jan 31 16:45	17° \approx 28'15	0°33'28	minimum elong	10810 Jan 14 16:08	0° \approx 44'31	1°01'34
desc. node	10809 Feb 04 23:25	25° \approx 05'33		max. Earth dist.	10810 Jan 21 11:13	13° \approx 19'25	1.38957 AU
	10809 Feb 07 19:38	0° H		desc. node	10810 Jan 22 20:13	15° \approx 45'51	
max. Earth dist.	10809 Feb 08 04:32	0° H 37'51	1.41141 AU	evening rise	10810 Jan 25 07:15	20° \approx 02'31	
evening rise	10809 Feb 12 21:41	8° H 28'47			10810 Jan 31 06:52	0° H	
	10809 Feb 26 20:07	0° Y			10810 Feb 20 23:42	0° Y	
evening max el	10809 Mar 18 23:09	25° Y 57'36	23°12'32	evening max el	10810 Mar 01 13:00	9° Y 47'12	24°32'17
	10809 Mar 23 16:33	0° B		retrograde	10810 Mar 13 01:34	16° Y 31'15	
retrograde	10809 Mar 29 09:42	2° B 07'40		asc. node	10810 Mar 18 03:41	14° Y 33'49	
asc. node	10809 Mar 31 06:24	1° B 51'04		evening set	10810 Mar 18 13:44	14° Y 13'13	
evening set	10809 Apr 03 09:49	0° B 02'20		min. Earth dist.	10810 Mar 23 03:41	9° Y 00'26	0.68196 AU
	10809 Apr 03 10:54	30° R Y		inferior conj	10810 Mar 24 02:40	7° Y 43'37	1°48'18
inferior conj	10809 Apr 08 18:59	23° Y 36'11	2°25'15	minimum elong	10810 Mar 24 00:35	7° Y 50'34	1°47'35
minimum elong	10809 Apr 08 16:49	23° Y 43'40	2°24'29	morning rise	10810 Mar 29 11:35	1° Y 44'21	
min. Earth dist.	10809 Apr 08 07:58	24° Y 14'15	0.68620 AU	direct	10810 Apr 02 07:17	0° Y 20'47	
morning rise	10809 Apr 13 23:45	17° Y 29'26		morning max el	10810 Apr 09 18:54	4° Y 31'46	19°53'53
direct	10809 Apr 18 08:08	15° Y 44'20		desc. node	10810 Apr 20 21:14	18° Y 36'34	
morning max el	10809 Apr 26 19:43	20° Y 37'11	21°05'43		10810 Apr 28 14:39	0° B	
desc. node	10809 May 04 00:28	29° Y 05'16		morning set	10810 May 06 13:04	12° B 04'48	
	10809 May 04 17:06	0° B		max. Earth dist.	10810 May 17 10:05	29° B 04'44	1.44402 AU
	10809 May 25 05:43	0° II			10810 May 17 23:58	0° II	
morning set	10809 May 27 13:13	3° II 36'19		superior conj	10810 May 22 15:13	7° II 27'15	-2°11'50
max. Earth dist.	10809 Jun 03 22:54	15° II 26'13	1.42772 AU	minimum elong	10810 May 22 17:42	7° II 37'18	2°12'19
superior conj	10809 Jun 11 02:58	27° II 22'37	-1°56'40	evening rise	10810 Jun 04 23:25	29° II 42'26	
minimum elong	10809 Jun 11 09:13	27° II 49'14	1°56'45		10810 Jun 05 03:33	0° S	
	10809 Jun 12 15:47	0° S		asc. node	10810 Jun 14 01:50	15° S 01'29	
evening rise	10809 Jun 22 18:05	17° S 48'13		evening max el	10810 Jun 22 19:32	26° S 59'11	18°08'09
asc. node	10809 Jun 27 04:50	25° S 44'41			10810 Jun 27 06:03	0° Q	
	10809 Jun 29 15:32	0° Q		retrograde	10810 Jun 29 04:30	0° Q 19'32	
evening max el	10809 Jul 09 05:42	13° Q 39'50	18°05'18		10810 Jul 01 02:56	30° R S	
retrograde	10809 Jul 15 22:13	17° Q 04'58		evening set	10810 Jul 01 23:53	29° S 38'43	
evening set	10809 Jul 18 09:40	16° Q 36'56		inferior conj	10810 Jul 08 03:56	24° S 23'11	2°31'20
inferior conj	10809 Jul 25 03:52	11° Q 40'08	1°39'25	minimum elong	10810 Jul 08 06:32	24° S 16'08	2°30'10
minimum elong	10809 Jul 25 06:27	11° Q 33'58	1°38'06	min. Earth dist.	10810 Jul 10 21:58	21° S 25'54	0.62918 AU
min. Earth dist.	10809 Jul 28 08:57	8° Q 38'04	0.60690 AU	morning rise	10810 Jul 14 11:24	18° S 12'05	
desc. node	10809 Jul 30 23:42	6° Q 28'26		desc. node	10810 Jul 17 20:53	16° S 17'45	
morning rise	10809 Aug 01 00:28	5° Q 45'40		direct	10810 Jul 21 04:29	15° S 41'41	
direct	10809 Aug 07 14:37	3° Q 36'50		morning max el	10810 Aug 04 04:55	23° S 44'01	27°51'51
morning max el	10809 Aug 21 21:24	11° Q 33'51	27°53'22		10810 Aug 09 19:35	0° Q	
	10809 Sep 05 09:10	0° M			10810 Aug 29 17:16	0° M	
	10809 Sep 22 06:32	0° L		morning set	10810 Sep 07 13:57	16° M 48'35	
asc. node	10809 Sep 23 05:17	1° L 56'39		asc. node	10810 Sep 10 02:02	21° M 56'44	
morning set	10809 Sep 23 16:16	2° L 53'30		max. Earth dist.	10810 Sep 12 18:57	27° M 39'40	1.32233 AU
max. Earth dist.	10809 Sep 29 15:03	15° L 40'24	1.31580 AU		10810 Sep 13 21:02	0° L	
superior conj	10809 Sep 30 22:17	18° L 32'55	1°09'56	superior conj	10810 Sep 15 06:35	3° L 01'56	0°49'27
minimum elong	10809 Sep 30 20:03	18° L 20'30	1°09'44	minimum elong	10810 Sep 15 04:34	2° L 50'57	0°49'03
	10809 Oct 06 02:40	0° M		evening rise	10810 Sep 22 03:01	17° L 58'16	
evening rise	10809 Oct 07 15:36	3° M 20'13			10810 Sep 27 23:20	0° M	
	10809 Oct 21 17:36	0° S		desc. node	10810 Oct 13 18:27	24° M 24'43	
desc. node	10809 Oct 26 21:11	7° S 34'30		evening max el	10810 Oct 16 02:04	26° M 48'46	23°46'31
evening max el	10809 Nov 03 14:43	16° S 30'21	25°22'40		10810 Oct 19 20:47	0° S	
retrograde	10809 Nov 17 11:43	23° S 29'07		retrograde	10810 Oct 29 15:18	3° S 34'46	
evening set	10809 Nov 23 09:31	22° S 09'26		evening set	10810 Nov 03 06:48	2° S 47'43	
min. Earth dist.	10809 Nov 28 02:55	19° S 30'18	0.57335 AU		10810 Nov 09 03:33	30° R M	

min. Earth dist.	10810 Nov 09 12:22	29° \mathbb{M} 47'06	0.55702 AU	desc. node	10811 Sep 30 15:45	9° \mathbb{M} 35'34	
inferior conj	10810 Nov 11 12:43	28° \mathbb{M} 34'53	-5°45'57	retrograde	10811 Oct 10 07:38	13° \mathbb{M} 15'52	
minimum elong	10810 Nov 11 14:12	28° \mathbb{M} 32'39	5°45'26	evening set	10811 Oct 13 11:47	12° \mathbb{M} 53'26	
morning rise	10810 Nov 19 23:30	24° \mathbb{M} 39'58		inferior conj	10811 Oct 22 09:19	8° \mathbb{M} 54'25	-5°27'41
direct	10810 Nov 22 17:47	24° \mathbb{M} 20'52		minimum elong	10811 Oct 22 02:36	9° \mathbb{M} 03'50	5°26'25
morning max el	10810 Dec 03 04:28	29° \mathbb{M} 17'54	20°08'46	min. Earth dist.	10811 Oct 21 19:26	9° \mathbb{M} 13'53	0.54747 AU
	10810 Dec 03 21:37	0° \mathbb{A}		morning rise	10811 Oct 30 18:54	5° \mathbb{M} 07'23	
asc. node	10810 Dec 07 02:29	3° \mathbb{A} 41'09		direct	10811 Nov 03 05:23	4° \mathbb{M} 41'13	
morning set	10810 Dec 21 09:47	28° \mathbb{A} 41'58		morning max el	10811 Nov 15 05:20	10° \mathbb{M} 21'40	21°38'26
	10810 Dec 22 01:03	0° \mathbb{B}		asc. node	10811 Nov 23 23:26	21° \mathbb{M} 19'40	
					10811 Nov 29 01:15	0° \mathbb{A}	
superior conj	10810 Dec 29 01:35	14° \mathbb{B} 20'36	1°21'26	morning set	10811 Dec 05 19:25	13° \mathbb{A} 27'35	
minimum elong	10810 Dec 29 04:12	14° \mathbb{B} 33'43	1°21'44				
max. Earth dist.	10811 Jan 03 18:15	25° \mathbb{B} 28'07	1.36785 AU	superior conj	10811 Dec 12 23:58	28° \mathbb{A} 38'06	1°33'50
	10811 Jan 06 04:29	0° \mathbb{C}		minimum elong	10811 Dec 13 01:34	28° \mathbb{A} 46'25	1°34'18
evening rise	10811 Jan 07 12:51	2° \mathbb{C} 27'47			10811 Dec 13 15:41	0° \mathbb{B}	
desc. node	10811 Jan 09 17:06	6° \mathbb{C} 21'10		max. Earth dist.	10811 Dec 17 05:55	7° \mathbb{B} 20'56	1.34844 AU
	10811 Jan 24 08:45	0° \mathbb{H}		evening rise	10811 Dec 21 11:02	15° \mathbb{B} 35'36	
evening max el	10811 Feb 12 02:23	23° \mathbb{H} 37'08	25°45'07	desc. node	10811 Dec 27 14:03	26° \mathbb{B} 47'04	
	10811 Feb 20 21:54	0° \mathbb{Y}			10811 Dec 29 10:43	0° \mathbb{C}	
retrograde	10811 Feb 24 12:48	0° \mathbb{Y} 45'05			10812 Jan 18 22:31	0° \mathbb{H}	
	10811 Feb 27 21:34	30° \mathbb{R} \mathbb{H}		evening max el	10812 Jan 25 15:49	7° \mathbb{H} 21'14	26°43'52
evening set	10811 Mar 02 13:04	28° \mathbb{H} 17'06		retrograde	10812 Feb 07 18:47	14° \mathbb{H} 42'17	
asc. node	10811 Mar 05 00:57	25° \mathbb{H} 48'42		evening set	10812 Feb 14 06:01	12° \mathbb{H} 08'51	
min. Earth dist.	10811 Mar 06 20:06	23° \mathbb{H} 39'25	0.67358 AU	min. Earth dist.	10812 Feb 18 07:08	8° \mathbb{H} 05'24	0.66124 AU
inferior conj	10811 Mar 08 07:02	21° \mathbb{H} 48'48	1°01'59	asc. node	10812 Feb 19 22:12	6° \mathbb{H} 10'31	
minimum elong	10811 Mar 08 05:35	21° \mathbb{H} 53'25	1°01'35	inferior conj	10812 Feb 20 06:00	5° \mathbb{H} 47'29	0°06'23
morning rise	10811 Mar 13 22:38	15° \mathbb{H} 58'40		minimum elong	10812 Feb 20 05:49	5° \mathbb{H} 48'02	0°06'36
direct	10811 Mar 17 06:40	14° \mathbb{H} 55'02		transit middle	10812 Feb 20 05:49	5° \mathbb{H} 48'02	0°06'36
morning max el	10811 Mar 24 01:55	18° \mathbb{H} 36'55	18°57'04	transit begin	10812 Feb 20 03:08	5° \mathbb{H} 55'56	
	10811 Apr 02 00:54	0° \mathbb{Y}		transit end	10812 Feb 20 08:29	5° \mathbb{H} 40'08	
greatest brilliancy	10811 Apr 06 18:53	7° \mathbb{Y} 05'02	-0.8m	morning rise	10812 Feb 26 06:45	0° \mathbb{H} 08'26	
desc. node	10811 Apr 07 17:59	8° \mathbb{Y} 33'03			10812 Feb 26 13:24	30° \mathbb{R} \mathbb{C}	
morning set	10811 Apr 15 18:55	20° \mathbb{Y} 58'04		direct	10812 Feb 29 04:27	29° \mathbb{C} 21'46	
	10811 Apr 21 14:21	0° \mathbb{B}			10812 Mar 02 20:39	0° \mathbb{H}	
max. Earth dist.	10811 Apr 30 02:55	13° \mathbb{B} 18'27	1.45399 AU	morning max el	10812 Mar 06 15:13	2° \mathbb{H} 47'20	18°16'39
				desc. node	10812 Mar 24 14:43	28° \mathbb{H} 48'04	
superior conj	10811 May 02 06:02	16° \mathbb{B} 39'14	-2°08'57		10812 Mar 25 08:40	0° \mathbb{Y}	
minimum elong	10811 May 02 01:09	16° \mathbb{B} 20'03	2°09'09	morning set	10812 Mar 26 01:40	1° \mathbb{Y} 08'07	
	10811 May 10 15:49	0° \mathbb{I}					
evening rise	10811 May 17 05:45	10° \mathbb{I} 37'19		superior conj	10812 Apr 10 12:24	25° \mathbb{Y} 36'23	-1°45'55
	10811 May 29 08:03	0° \mathbb{D}		minimum elong	10812 Apr 10 02:59	24° \mathbb{Y} 59'31	1°45'17
asc. node	10811 May 31 22:55	3° \mathbb{D} 51'28		max. Earth dist.	10812 Apr 11 22:20	27° \mathbb{Y} 49'04	1.45668 AU
evening max el	10811 Jun 06 08:27	10° \mathbb{D} 31'31	18°29'14		10812 Apr 13 07:50	0° \mathbb{B}	
retrograde	10811 Jun 12 19:31	14° \mathbb{D} 01'03		evening rise	10812 Apr 26 12:38	20° \mathbb{B} 36'26	
evening set	10811 Jun 15 22:50	13° \mathbb{D} 05'50			10812 May 02 13:00	0° \mathbb{I}	
inferior conj	10811 Jun 21 16:40	7° \mathbb{D} 33'29	3°02'08	greatest brilliancy	10812 May 07 12:03	7° \mathbb{I} 39'34	-0.8m
minimum elong	10811 Jun 21 18:24	7° \mathbb{D} 28'18	3°01'19	asc. node	10812 May 17 20:03	22° \mathbb{I} 06'07	
min. Earth dist.	10811 Jun 23 20:22	4° \mathbb{D} 59'31	0.64903 AU	evening max el	10812 May 19 17:59	24° \mathbb{I} 11'13	19°07'41
morning rise	10811 Jun 27 12:58	1° \mathbb{D} 14'12		retrograde	10812 May 26 15:40	28° \mathbb{I} 02'31	
	10811 Jun 29 05:59	30° \mathbb{R} \mathbb{I}		evening set	10812 May 30 03:15	26° \mathbb{I} 51'58	
direct	10811 Jul 04 02:37	28° \mathbb{I} 32'15		inferior conj	10812 Jun 04 14:29	21° \mathbb{I} 04'29	3°15'53
desc. node	10811 Jul 04 18:03	28° \mathbb{I} 33'40		minimum elong	10812 Jun 04 15:03	21° \mathbb{I} 02'38	3°15'18
	10811 Jul 09 10:07	0° \mathbb{D}		min. Earth dist.	10812 Jun 06 03:14	19° \mathbb{I} 06'18	0.66521 AU
morning max el	10811 Jul 17 15:23	6° \mathbb{D} 29'21	27°15'27	morning rise	10812 Jun 10 02:19	14° \mathbb{I} 43'06	
	10811 Aug 04 16:18	0° \mathbb{Q}		direct	10812 Jun 16 07:55	12° \mathbb{I} 00'18	
	10811 Aug 21 23:24	0° \mathbb{P}		desc. node	10812 Jun 20 15:07	13° \mathbb{I} 04'14	
morning set	10811 Aug 22 02:28	0° \mathbb{P} 14'55		morning max el	10812 Jun 29 02:12	19° \mathbb{I} 37'42	26°11'36
max. Earth dist.	10811 Aug 26 14:35	9° \mathbb{P} 15'12	1.33389 AU		10812 Jul 07 22:22	0° \mathbb{D}	
asc. node	10811 Aug 27 22:49	12° \mathbb{P} 01'33			10812 Jul 27 18:24	0° \mathbb{Q}	
				morning set	10812 Aug 04 02:23	13° \mathbb{Q} 03'49	
superior conj	10811 Aug 30 10:05	17° \mathbb{P} 12'46	0°24'08	max. Earth dist.	10812 Aug 07 23:36	20° \mathbb{Q} 26'50	1.35035 AU
minimum elong	10811 Aug 30 08:54	17° \mathbb{P} 06'30	0°23'42		10812 Aug 12 18:44	0° \mathbb{P}	
	10811 Sep 05 09:28	0° \mathbb{L}					
evening rise	10811 Sep 06 13:59	2° \mathbb{L} 31'41		superior conj	10812 Aug 13 06:19	0° \mathbb{P} 59'01	-0°05'26
	10811 Sep 21 17:54	0° \mathbb{M}		minimum elong	10812 Aug 13 06:38	1° \mathbb{P} 00'43	0°05'42
evening max el	10811 Sep 27 14:15	6° \mathbb{M} 55'51	22°06'21	behind sun begin	10812 Aug 13 01:00	0° \mathbb{P} 31'54	

behind sun end	10812 Aug 13 12:17	1° \cap 29'34		minimum elong	10813 Jul 27 18:41	14° Ω 25'19	0°37'58
asc. node	10812 Aug 13 19:38	2° \cap 07'16		asc. node	10813 Jul 31 16:30	22° Ω 10'09	
evening rise	10812 Aug 20 22:29	16° \cap 54'56			10813 Aug 04 13:53	0° \cap	
	10812 Aug 27 12:39	0° $\underline{\cap}$		evening rise	10813 Aug 05 02:11	1° \cap 01'49	
evening max el	10812 Sep 08 12:32	17° $\underline{\cap}$ 28'49	20°37'33	evening max el	10813 Aug 22 00:44	28° \cap 47'08	19°28'04
desc. node	10812 Sep 16 13:04	22° $\underline{\cap}$ 37'20			10813 Aug 23 08:07	0° $\underline{\cap}$	
retrograde	10812 Sep 19 19:25	23° $\underline{\cap}$ 04'53		retrograde	10813 Aug 31 14:43	3° $\underline{\cap}$ 32'46	
evening set	10812 Sep 21 22:50	22° $\underline{\cap}$ 53'38		evening set	10813 Sep 02 10:54	3° $\underline{\cap}$ 22'59	
inferior conj	10812 Oct 01 01:39	18° $\underline{\cap}$ 57'40	-4°13'02	desc. node	10813 Sep 03 10:22	3° $\underline{\cap}$ 10'13	
minimum elong	10812 Sep 30 15:46	19° $\underline{\cap}$ 11'54	4°10'01		10813 Sep 10 01:06	30° \cap \cap	
min. Earth dist.	10812 Oct 02 03:43	18° $\underline{\cap}$ 20'05	0.54694 AU	inferior conj	10813 Sep 11 04:07	29° \cap 16'59	-2°23'52
morning rise	10812 Oct 09 08:25	14° $\underline{\cap}$ 58'10		minimum elong	10813 Sep 10 21:43	29° \cap 27'16	2°21'29
direct	10812 Oct 13 13:42	14° $\underline{\cap}$ 19'54		min. Earth dist.	10813 Sep 13 15:01	27° \cap 42'37	0.55583 AU
morning max el	10812 Oct 26 19:44	20° $\underline{\cap}$ 44'24	23°23'08	morning rise	10813 Sep 19 06:07	24° \cap 47'17	
	10812 Nov 03 16:28	0° \cap		direct	10813 Sep 24 07:17	23° \cap 49'54	
asc. node	10812 Nov 09 20:20	9° \cap 44'27			10813 Oct 07 08:35	0° $\underline{\cap}$	
morning set	10812 Nov 19 06:56	28° \cap 15'36		morning max el	10813 Oct 08 06:52	0° $\underline{\cap}$ 51'27	25°09'05
	10812 Nov 20 02:30	0° \cap		asc. node	10813 Oct 27 17:12	28° $\underline{\cap}$ 44'07	
					10813 Oct 28 09:10	0° \cap	
superior conj	10812 Nov 26 05:03	13° \cap 12'52	1°39'18	morning set	10813 Nov 03 18:39	13° \cap 01'28	
minimum elong	10812 Nov 26 05:27	13° \cap 15'00	1°39'50				
max. Earth dist.	10812 Nov 29 01:17	19° \cap 17'02	1.33290 AU	superior conj	10813 Nov 10 14:21	27° \cap 57'36	1°38'26
evening rise	10812 Dec 03 22:09	29° \cap 16'37		minimum elong	10813 Nov 10 13:38	27° \cap 53'38	1°38'52
	10812 Dec 04 06:53	0° $\underline{\cap}$			10813 Nov 11 12:38	0° \cap	
desc. node	10812 Dec 13 11:04	16° $\underline{\cap}$ 57'58		max. Earth dist.	10813 Nov 12 04:21	1° \cap 26'01	1.32193 AU
	10812 Dec 21 13:24	0° \approx		evening rise	10813 Nov 17 18:57	13° \cap 22'39	
evening max el	10813 Jan 07 04:49	20° \approx 49'41	27°21'17		10813 Nov 26 09:52	0° $\underline{\cap}$	
retrograde	10813 Jan 20 18:37	28° \approx 13'26		desc. node	10813 Nov 30 08:08	6° $\underline{\cap}$ 47'22	
evening set	10813 Jan 27 14:20	25° \approx 40'58			10813 Dec 16 22:07	0° \approx	
min. Earth dist.	10813 Jan 31 10:41	22° \approx 09'49	0.64537 AU	evening max el	10813 Dec 20 15:41	3° \approx 50'51	27°30'35
inferior conj	10813 Feb 02 21:04	19° \approx 33'07	-0°58'14	retrograde	10814 Jan 03 11:13	11° \approx 09'44	
minimum elong	10813 Feb 02 22:51	19° \approx 28'20	0°57'04	evening set	10814 Jan 10 11:18	8° \approx 46'14	
asc. node	10813 Feb 05 19:27	16° \approx 35'06		min. Earth dist.	10814 Jan 14 04:51	5° \approx 43'20	0.62661 AU
morning rise	10813 Feb 09 09:10	14° \approx 07'29		inferior conj	10814 Jan 17 01:24	2° \approx 58'52	-2°10'25
direct	10813 Feb 11 22:15	13° \approx 34'07		minimum elong	10814 Jan 17 05:43	2° \approx 48'26	2°08'11
morning max el	10813 Feb 18 08:07	16° \approx 54'31	17°53'07		10814 Jan 20 09:11	30° \cap $\underline{\cap}$	
	10813 Feb 27 21:09	0° \cap		asc. node	10814 Jan 23 16:38	27° $\underline{\cap}$ 58'49	
morning set	10813 Mar 07 13:23	12° \cap 43'14		morning rise	10814 Jan 24 02:30	27° $\underline{\cap}$ 49'34	
desc. node	10813 Mar 11 11:26	19° \cap 15'39		direct	10814 Jan 26 09:12	27° $\underline{\cap}$ 25'36	
	10813 Mar 18 00:28	0° \cap			10814 Feb 01 03:45	0° \approx	
				morning max el	10814 Feb 02 01:35	0° \approx 50'32	17°47'06
superior conj	10813 Mar 21 04:33	5° \cap 06'27	-1°08'19	morning set	10814 Feb 18 01:16	25° \approx 27'49	
minimum elong	10813 Mar 20 21:10	4° \cap 36'50	1°07'22		10814 Feb 20 15:18	0° \cap	
max. Earth dist.	10813 Mar 25 17:43	12° \cap 19'55	1.45197 AU	desc. node	10814 Feb 26 08:10	9° \cap 51'42	
evening rise	10813 Apr 06 03:07	0° \cap 01'21					
	10813 Apr 06 02:46	0° \cap		superior conj	10814 Mar 01 18:58	15° \cap 40'59	-0°25'52
greatest brilliancy	10813 Apr 21 01:52	22° \cap 31'24	-0.6m	minimum elong	10814 Mar 01 16:23	15° \cap 30'11	0°25'17
	10813 Apr 26 09:17	0° \cap		max. Earth dist.	10814 Mar 08 10:59	26° \cap 36'14	1.44041 AU
evening max el	10813 May 02 22:30	7° \cap 54'01	20°02'00		10814 Mar 10 13:58	0° \cap	
asc. node	10813 May 04 17:15	9° \cap 33'41		evening rise	10814 Mar 16 15:39	9° \cap 30'24	
retrograde	10813 May 10 14:04	12° \cap 17'38			10814 Mar 30 07:30	0° \cap	
evening set	10813 May 14 10:42	10° \cap 51'18		evening max el	10814 Apr 15 21:24	21° \cap 38'11	21°09'33
inferior conj	10813 May 19 18:22	4° \cap 50'16	3°15'49	asc. node	10814 Apr 21 14:28	26° \cap 00'12	
minimum elong	10813 May 19 17:50	4° \cap 52'06	3°15'17	retrograde	10814 Apr 24 12:36	26° \cap 41'42	
min. Earth dist.	10813 May 20 16:39	3° \cap 34'52	0.67703 AU	evening set	10814 Apr 28 19:15	24° \cap 59'31	
	10813 May 23 13:18	30° \cap \cap		inferior conj	10814 May 04 01:53	18° \cap 46'43	3°04'09
morning rise	10813 May 25 00:38	28° \cap 30'39		minimum elong	10814 May 04 00:27	18° \cap 51'40	3°03'33
direct	10813 May 30 19:07	25° \cap 56'43		min. Earth dist.	10814 May 04 10:35	18° \cap 16'31	0.68422 AU
desc. node	10813 Jun 07 12:08	29° \cap 20'29		morning rise	10814 May 09 05:27	12° \cap 31'10	
	10813 Jun 08 07:32	0° \cap		direct	10814 May 14 11:02	10° \cap 13'19	
morning max el	10813 Jun 11 11:58	2° \cap 58'09	24°49'54	morning max el	10814 May 24 21:42	16° \cap 26'14	23°20'31
	10813 Jul 02 02:15	0° $\underline{\cap}$		desc. node	10814 May 25 09:04	16° \cap 55'14	
morning set	10813 Jul 17 09:20	25° $\underline{\cap}$ 03'52			10814 Jun 05 02:06	0° \cap	
	10813 Jul 20 03:24	0° $\underline{\cap}$			10814 Jun 25 02:34	0° $\underline{\cap}$	
max. Earth dist.	10813 Jul 20 23:21	1° $\underline{\cap}$ 31'07	1.37093 AU	morning set	10814 Jun 28 18:10	6° $\underline{\cap}$ 01'59	
				max. Earth dist.	10814 Jul 02 20:14	13° $\underline{\cap}$ 00'40	1.39381 AU
superior conj	10813 Jul 27 16:14	14° $\underline{\cap}$ 13'17	-0°37'59				

superior conj	10814 Jul 10 12:00	26° \mathfrak{D} 46'10	-1°11'25		10815 Jun 17 15:32	0° \mathfrak{D}	
minimum elong	10814 Jul 10 16:51	27° \mathfrak{D} 08'42	1°11'11				
	10814 Jul 12 05:31	0° \mathfrak{Q}		superior conj	10815 Jun 22 13:11	8° \mathfrak{D} 27'38	-1°42'10
asc. node	10814 Jul 18 13:23	12° \mathfrak{Q} 06'07		minimum elong	10815 Jun 22 19:38	8° \mathfrak{D} 55'59	1°42'02
evening rise	10814 Jul 19 22:13	14° \mathfrak{Q} 44'45		evening rise	10815 Jul 03 06:56	27° \mathfrak{D} 54'49	
	10814 Jul 28 04:14	0° \mathfrak{P}			10815 Jul 04 10:05	0° \mathfrak{Q}	
evening max el	10814 Aug 05 00:58	10° \mathfrak{P} 50'07	18°39'44	asc. node	10815 Jul 05 10:18	1° \mathfrak{Q} 51'16	
retrograde	10814 Aug 13 03:24	14° \mathfrak{P} 53'20		evening max el	10815 Jul 19 09:31	23° \mathfrak{Q} 30'34	18°12'08
evening set	10814 Aug 15 03:06	14° \mathfrak{P} 39'32		retrograde	10815 Jul 26 11:16	27° \mathfrak{Q} 05'32	
desc. node	10814 Aug 21 07:40	11° \mathfrak{P} 32'21		evening set	10815 Jul 28 18:05	26° \mathfrak{Q} 43'43	
inferior conj	10814 Aug 23 02:10	10° \mathfrak{P} 14'33	-0°32'56	inferior conj	10815 Aug 04 22:04	21° \mathfrak{Q} 58'02	0°58'23
minimum elong	10814 Aug 23 00:50	10° \mathfrak{P} 17'03	0°32'39	minimum elong	10815 Aug 04 23:54	21° \mathfrak{Q} 54'01	0°57'20
min. Earth dist.	10814 Aug 26 07:01	7° \mathfrak{P} 51'30	0.57246 AU	desc. node	10815 Aug 08 04:56	19° \mathfrak{Q} 06'15	
morning rise	10814 Aug 30 19:10	5° \mathfrak{P} 07'24		min. Earth dist.	10815 Aug 08 06:09	19° \mathfrak{Q} 03'42	0.59378 AU
direct	10814 Sep 05 14:33	3° \mathfrak{P} 44'07		morning rise	10815 Aug 12 02:28	16° \mathfrak{Q} 17'39	
morning max el	10814 Sep 19 21:50	11° \mathfrak{P} 13'28	26°38'38	direct	10815 Aug 18 11:26	14° \mathfrak{Q} 25'02	
	10814 Oct 04 10:27	0° \mathfrak{L}		morning max el	10815 Sep 01 20:07	22° \mathfrak{Q} 14'31	27°37'00
asc. node	10814 Oct 14 14:01	18° \mathfrak{L} 08'37			10815 Sep 08 16:29	0° \mathfrak{P}	
morning set	10814 Oct 19 04:47	27° \mathfrak{L} 39'11			10815 Sep 27 11:31	0° \mathfrak{L}	
	10814 Oct 20 07:02	0° \mathfrak{M}		asc. node	10815 Oct 01 10:49	7° \mathfrak{L} 51'19	
				morning set	10815 Oct 03 11:41	12° \mathfrak{L} 04'32	
superior conj	10814 Oct 26 01:44	12° \mathfrak{M} 44'34	1°31'42	max. Earth dist.	10815 Oct 09 21:42	26° \mathfrak{L} 01'39	1.31435 AU
minimum elong	10814 Oct 26 00:07	12° \mathfrak{M} 35'39	1°31'55				
max. Earth dist.	10814 Oct 26 12:19	13° \mathfrak{M} 43'29	1.31570 AU	superior conj	10815 Oct 10 13:20	27° \mathfrak{L} 28'39	1°19'25
evening rise	10814 Nov 01 22:34	27° \mathfrak{M} 44'46		minimum elong	10815 Oct 10 11:12	27° \mathfrak{L} 16'47	1°19'22
	10814 Nov 03 00:21	0° \mathfrak{X}			10815 Oct 11 16:32	0° \mathfrak{M}	
desc. node	10814 Nov 17 05:15	26° \mathfrak{X} 05'24		evening rise	10815 Oct 17 06:46	12° \mathfrak{M} 17'08	
	10814 Nov 19 18:22	0° \mathfrak{Z}			10815 Oct 26 03:49	0° \mathfrak{X}	
evening max el	10814 Dec 02 21:40	16° \mathfrak{Z} 10'20	27°06'53	desc. node	10815 Nov 04 02:25	14° \mathfrak{X} 40'00	
retrograde	10814 Dec 16 19:23	23° \mathfrak{Z} 21'30		evening max el	10815 Nov 14 20:04	27° \mathfrak{X} 38'21	26°09'09
evening set	10814 Dec 23 17:23	21° \mathfrak{Z} 15'55			10815 Nov 17 13:02	0° \mathfrak{Z}	
min. Earth dist.	10814 Dec 27 12:12	18° \mathfrak{Z} 33'40	0.60585 AU	retrograde	10815 Nov 28 18:02	4° \mathfrak{Z} 42'16	
inferior conj	10814 Dec 30 15:32	15° \mathfrak{Z} 54'55	-3°26'36	evening set	10815 Dec 05 04:14	3° \mathfrak{Z} 03'31	
minimum elong	10814 Dec 30 22:27	15° \mathfrak{Z} 40'18	3°23'39	min. Earth dist.	10815 Dec 09 09:01	0° \mathfrak{Z} 28'34	0.58469 AU
morning rise	10815 Jan 07 06:09	11° \mathfrak{Z} 05'25			10815 Dec 10 00:59	30° \mathfrak{R} \mathfrak{X}	
direct	10815 Jan 09 09:27	10° \mathfrak{Z} 47'16		inferior conj	10815 Dec 12 11:56	28° \mathfrak{X} 11'26	-4°38'48
asc. node	10815 Jan 10 13:45	10° \mathfrak{Z} 53'00		minimum elong	10815 Dec 12 20:01	27° \mathfrak{X} 56'37	4°36'10
morning max el	10815 Jan 16 16:17	14° \mathfrak{Z} 25'54	17°59'40	morning rise	10815 Dec 20 14:22	23° \mathfrak{X} 44'25	
	10815 Jan 27 07:52	0° \mathfrak{A}		direct	10815 Dec 22 18:26	23° \mathfrak{X} 28'48	
morning set	10815 Feb 01 06:50	9° \mathfrak{A} 01'37		asc. node	10815 Dec 28 10:51	25° \mathfrak{X} 23'19	
				morning max el	10815 Dec 31 00:34	27° \mathfrak{X} 30'39	18°32'25
superior conj	10815 Feb 11 10:11	27° \mathfrak{A} 25'30	0°13'39		10816 Jan 02 07:10	0° \mathfrak{Z}	
minimum elong	10815 Feb 11 11:20	27° \mathfrak{A} 30'32	0°13'50	morning set	10816 Jan 16 00:45	23° \mathfrak{Z} 08'36	
behind sun begin	10815 Feb 11 07:18	27° \mathfrak{A} 12'48			10816 Jan 19 14:00	0° \mathfrak{A}	
behind sun end	10815 Feb 11 15:22	27° \mathfrak{A} 48'15					
	10815 Feb 12 21:30	0° \mathfrak{H}		superior conj	10816 Jan 24 22:48	10° \mathfrak{A} 10'01	0°46'17
desc. node	10815 Feb 13 04:55	0° \mathfrak{H} 32'10		minimum elong	10816 Jan 25 01:39	10° \mathfrak{A} 23'12	0°46'20
max. Earth dist.	10815 Feb 19 00:16	10° \mathfrak{H} 23'23	1.42318 AU	desc. node	10816 Jan 31 01:40	21° \mathfrak{A} 13'33	
evening rise	10815 Feb 24 16:33	19° \mathfrak{H} 36'54		max. Earth dist.	10816 Feb 01 08:46	23° \mathfrak{A} 29'07	1.40223 AU
	10815 Mar 03 08:40	0° \mathfrak{Y}			10816 Feb 05 04:36	0° \mathfrak{H}	
	10815 Mar 24 19:27	0° \mathfrak{B}		evening rise	10816 Feb 05 13:38	0° \mathfrak{H} 37'43	
evening max el	10815 Mar 29 15:19	5° \mathfrak{B} 23'34	22°26'18		10816 Feb 24 18:09	0° \mathfrak{Y}	
retrograde	10815 Apr 08 09:39	11° \mathfrak{B} 09'53		evening max el	10816 Mar 11 05:53	19° \mathfrak{Y} 10'54	23°46'47
asc. node	10815 Apr 08 11:41	11° \mathfrak{B} 09'51		retrograde	10816 Mar 22 03:50	25° \mathfrak{Y} 36'51	
evening set	10815 Apr 13 03:14	9° \mathfrak{B} 12'27		asc. node	10816 Mar 25 08:56	24° \mathfrak{Y} 48'17	
inferior conj	10815 Apr 18 10:58	2° \mathfrak{B} 50'14	2°42'15	evening set	10816 Mar 27 09:06	23° \mathfrak{Y} 25'33	
minimum elong	10815 Apr 18 08:57	2° \mathfrak{B} 57'12	2°41'31	min. Earth dist.	10816 Apr 01 03:27	17° \mathfrak{Y} 52'42	0.68491 AU
min. Earth dist.	10815 Apr 18 06:53	3° \mathfrak{B} 04'25	0.68677 AU	inferior conj	10816 Apr 01 19:41	16° \mathfrak{Y} 57'15	2°10'43
	10815 Apr 20 13:09	30° \mathfrak{R} \mathfrak{Y}		minimum elong	10816 Apr 01 17:30	17° \mathfrak{Y} 04'43	2°09'57
morning rise	10815 Apr 23 14:33	26° \mathfrak{Y} 40'07		morning rise	10816 Apr 07 01:55	10° \mathfrak{Y} 53'41	
direct	10815 Apr 28 06:36	24° \mathfrak{Y} 42'43		direct	10816 Apr 11 04:44	9° \mathfrak{Y} 18'03	
	10815 May 07 09:07	0° \mathfrak{B}		morning max el	10816 Apr 19 05:25	13° \mathfrak{Y} 51'49	20°33'30
morning max el	10815 May 07 10:30	0° \mathfrak{B} 03'26	21°52'41	desc. node	10816 Apr 28 02:43	24° \mathfrak{Y} 39'58	
desc. node	10815 May 12 05:56	5° \mathfrak{B} 27'04			10816 May 01 22:13	0° \mathfrak{B}	
	10815 May 29 20:14	0° \mathfrak{I}		morning set	10816 May 18 08:08	24° \mathfrak{B} 35'01	
morning set	10815 Jun 09 00:59	15° \mathfrak{I} 49'35			10816 May 21 19:24	0° \mathfrak{I}	
max. Earth dist.	10815 Jun 14 20:57	25° \mathfrak{I} 20'23	1.41617 AU	max. Earth dist.	10816 May 27 03:56	8° \mathfrak{I} 31'12	1.43532 AU

superior conj	10816 Jun 02 15:25	19° Π 07'42	-2°04'57	max. Earth dist.	10817 May 09 17:12	22° \mathcal{B} 24'33	1.44914 AU
minimum elong	10816 Jun 02 20:39	19° Π 29'33	2°05'14				
	10816 Jun 09 01:23	0° \mathcal{E}		superior conj	10817 May 13 17:44	28° \mathcal{B} 47'39	-2°13'06
evening rise	10816 Jun 14 23:41	10° \mathcal{E} 19'46		minimum elong	10817 May 13 17:16	28° \mathcal{B} 45'46	2°13'34
asc. node	10816 Jun 21 07:16	21° \mathcal{E} 19'58			10817 May 14 11:50	0° Π	
	10816 Jun 26 16:12	0° Ω		evening rise	10817 May 27 19:39	21° Π 49'11	
evening max el	10816 Jul 01 22:24	6° Ω 37'58	18°04'12		10817 Jun 01 17:16	0° \mathcal{E}	
retrograde	10816 Jul 08 10:39	9° Ω 59'40		asc. node	10817 Jun 08 04:18	10° \mathcal{E} 26'16	
evening set	10816 Jul 11 01:21	9° Ω 26'36		evening max el	10817 Jun 15 12:13	20° \mathcal{E} 03'43	18°14'56
inferior conj	10816 Jul 17 13:03	4° Ω 21'36	2°04'15	retrograde	10817 Jun 21 21:02	23° \mathcal{E} 26'17	
minimum elong	10816 Jul 17 15:48	4° Ω 14'39	2°02'57	evening set	10817 Jun 24 19:44	22° \mathcal{E} 39'37	
min. Earth dist.	10816 Jul 20 14:04	1° Ω 18'45	0.61654 AU	inferior conj	10817 Jun 30 19:00	17° \mathcal{E} 17'00	2°46'40
	10816 Jul 22 00:18	30° \mathcal{R} \mathcal{E}		minimum elong	10817 Jun 30 21:18	17° \mathcal{E} 10'29	2°45'39
morning rise	10816 Jul 24 03:52	28° \mathcal{E} 18'29		min. Earth dist.	10817 Jul 03 07:17	14° \mathcal{E} 27'22	0.63808 AU
desc. node	10816 Jul 25 02:10	27° \mathcal{E} 42'24		morning rise	10817 Jul 06 21:25	11° \mathcal{E} 01'27	
direct	10816 Jul 30 19:57	25° \mathcal{E} 59'19		desc. node	10817 Jul 11 23:21	8° \mathcal{E} 33'05	
	10816 Aug 09 12:06	0° Ω		direct	10817 Jul 13 13:50	8° \mathcal{E} 24'25	
morning max el	10816 Aug 14 00:59	4° Ω 00'36	27°57'18	morning max el	10817 Jul 27 10:00	16° \mathcal{E} 26'35	27°40'03
	10816 Sep 02 08:57	0° \mathcal{M}			10817 Aug 07 14:39	0° Ω	
morning set	10816 Sep 16 13:22	26° \mathcal{M} 12'13			10817 Aug 26 03:28	0° \mathcal{M}	
asc. node	10816 Sep 17 07:36	27° \mathcal{M} 46'18		morning set	10817 Aug 31 07:30	9° \mathcal{M} 55'44	
	10816 Sep 18 09:12	0° \mathcal{L}		asc. node	10817 Sep 04 04:23	17° \mathcal{M} 48'46	
max. Earth dist.	10816 Sep 22 04:31	8° \mathcal{L} 09'36	1.31792 AU	max. Earth dist.	10817 Sep 05 05:02	19° \mathcal{M} 57'50	1.32659 AU
superior conj	10816 Sep 23 23:23	12° \mathcal{L} 04'31	1°01'52	superior conj	10817 Sep 08 05:56	26° \mathcal{M} 26'25	0°39'16
minimum elong	10816 Sep 23 21:11	11° \mathcal{L} 52'20	1°01'33	minimum elong	10817 Sep 08 04:11	26° \mathcal{M} 17'02	0°38'50
evening rise	10816 Sep 30 17:32	26° \mathcal{L} 54'10			10817 Sep 09 21:25	0° \mathcal{L}	
	10816 Oct 02 04:23	0° \mathcal{M}		evening rise	10817 Sep 15 04:59	11° \mathcal{L} 30'26	
	10816 Oct 19 06:20	0° \mathcal{J}			10817 Sep 24 13:16	0° \mathcal{M}	
desc. node	10816 Oct 20 23:40	2° \mathcal{J} 14'32		desc. node	10817 Oct 07 20:58	18° \mathcal{M} 25'55	
evening max el	10816 Oct 26 10:22	8° \mathcal{J} 16'54	24°43'24	evening max el	10817 Oct 07 21:00	18° \mathcal{M} 26'01	23°03'27
retrograde	10816 Nov 09 05:28	15° \mathcal{J} 12'10		retrograde	10817 Oct 21 03:58	25° \mathcal{M} 03'03	
evening set	10816 Nov 14 15:34	14° \mathcal{J} 06'35		evening set	10817 Oct 25 03:53	24° \mathcal{M} 28'18	
min. Earth dist.	10816 Nov 19 21:52	11° \mathcal{J} 20'30	0.56565 AU	min. Earth dist.	10817 Nov 01 06:11	21° \mathcal{M} 12'52	0.55188 AU
inferior conj	10816 Nov 22 12:07	9° \mathcal{J} 40'58	-5°32'08	inferior conj	10817 Nov 02 16:58	20° \mathcal{M} 22'41	-5°45'25
minimum elong	10816 Nov 22 17:29	9° \mathcal{J} 32'21	5°30'56	minimum elong	10817 Nov 02 14:52	20° \mathcal{M} 25'44	5°44'55
morning rise	10816 Nov 30 21:38	5° \mathcal{J} 35'50		morning rise	10817 Nov 11 03:32	16° \mathcal{M} 32'46	
direct	10816 Dec 03 08:29	5° \mathcal{J} 19'16		direct	10817 Nov 14 04:11	16° \mathcal{M} 11'09	
morning max el	10816 Dec 12 22:35	9° \mathcal{J} 54'10	19°27'07	morning max el	10817 Nov 25 07:14	21° \mathcal{M} 26'58	20°44'32
asc. node	10816 Dec 14 07:53	11° \mathcal{J} 19'29		asc. node	10817 Dec 01 04:53	28° \mathcal{M} 25'03	
	10816 Dec 26 06:10	0° \mathcal{Z}			10817 Dec 02 07:05	0° \mathcal{J}	
morning set	10816 Dec 30 03:04	7° \mathcal{Z} 37'21		morning set	10817 Dec 14 10:42	22° \mathcal{J} 18'24	
					10817 Dec 18 03:27	0° \mathcal{Z}	
superior conj	10817 Jan 07 03:57	23° \mathcal{Z} 40'32	1°10'53	superior conj	10817 Dec 21 21:04	7° \mathcal{Z} 43'25	1°27'35
minimum elong	10817 Jan 07 06:56	23° \mathcal{Z} 55'05	1°11'03	minimum elong	10817 Dec 21 23:18	7° \mathcal{Z} 54'46	1°27'57
	10817 Jan 10 10:45	0° \approx			10817 Dec 26 22:51	17° \mathcal{Z} 51'24	1.35915 AU
max. Earth dist.	10817 Jan 13 14:35	5° \approx 53'17	1.38007 AU	max. Earth dist.	10817 Dec 30 21:14	25° \mathcal{Z} 19'06	
desc. node	10817 Jan 16 22:32	11° \approx 52'28		evening rise	10818 Jan 02 10:57	0° \approx	
evening rise	10817 Jan 17 08:07	12° \approx 34'39			10818 Jan 03 19:27	2° \approx 24'11	
	10817 Jan 27 20:30	0° \mathcal{H}		desc. node	10818 Jan 21 09:12	0° \mathcal{H}	
	10817 Feb 18 21:54	0° \mathcal{Y}			10818 Jan 21 09:12	0° \mathcal{H}	
evening max el	10817 Feb 21 19:17	3° \mathcal{Y} 01'05	25°04'31	evening max el	10818 Feb 04 08:50	16° \mathcal{H} 49'49	26°12'22
retrograde	10817 Mar 05 18:04	9° \mathcal{Y} 57'32		retrograde	10818 Feb 17 03:13	24° \mathcal{H} 04'41	
evening set	10817 Mar 11 11:20	7° \mathcal{Y} 34'50		evening set	10818 Feb 23 08:10	21° \mathcal{H} 34'03	
asc. node	10817 Mar 12 06:12	6° \mathcal{Y} 52'11		asc. node	10818 Feb 27 03:28	17° \mathcal{H} 38'29	
min. Earth dist.	10817 Mar 15 22:09	2° \mathcal{Y} 36'53	0.67884 AU	min. Earth dist.	10818 Feb 27 12:40	17° \mathcal{H} 10'47	0.66876 AU
inferior conj	10817 Mar 17 02:14	1° \mathcal{Y} 04'50	1°29'50	inferior conj	10818 Mar 01 04:35	15° \mathcal{H} 07'52	0°39'34
minimum elong	10817 Mar 17 00:21	1° \mathcal{Y} 11'01	1°29'13	minimum elong	10818 Mar 01 03:36	15° \mathcal{H} 10'57	0°39'23
	10817 Mar 17 22:09	30° \mathcal{R} \mathcal{H}		morning rise	10818 Mar 06 23:46	9° \mathcal{H} 21'51	
morning rise	10817 Mar 22 13:41	25° \mathcal{H} 09'07		direct	10818 Mar 10 03:13	8° \mathcal{H} 25'46	
direct	10817 Mar 26 04:11	23° \mathcal{H} 54'27		morning max el	10818 Mar 16 17:56	11° \mathcal{H} 59'26	18°37'47
morning max el	10817 Apr 02 08:04	27° \mathcal{H} 51'53	19°27'44		10818 Mar 29 23:12	0° \mathcal{Y}	
	10817 Apr 04 08:13	0° \mathcal{Y}		desc. node	10818 Apr 01 20:14	4° \mathcal{Y} 28'14	
desc. node	10817 Apr 14 23:29	14° \mathcal{Y} 23'15		morning set	10818 Apr 06 22:34	12° \mathcal{Y} 27'38	
greatest brilliancy	10817 Apr 15 01:10	14° \mathcal{Y} 29'26	-0.7m		10818 Apr 18 03:14	0° \mathcal{B}	
	10817 Apr 25 07:15	0° \mathcal{B}		max. Earth dist.	10818 Apr 22 11:24	6° \mathcal{B} 47'10	1.45611 AU
morning set	10817 Apr 27 07:33	3° \mathcal{B} 05'37					

superior conj	10818 Apr 23 02:56	7°♄47'56	-2°01'29			10819 Mar 03 17:40	0°♄	
minimum elong	10818 Apr 22 19:21	7°♄18'18	2°01'20	morning set		10819 Mar 18 17:51	23°♄14'37	
	10818 May 07 04:50	0°♄		desc. node		10819 Mar 19 16:57	24°♄48'46	
evening rise	10818 May 08 15:40	2°♄18'47				10819 Mar 22 21:35	0°♄	
greatest brilliancy	10818 May 16 12:42	14°♄51'30	-0.9m					
asc. node	10818 May 26 01:24	29°♄02'34		superior conj		10819 Apr 02 11:11	16°♄52'30	-1°31'10
	10818 May 26 19:08	0°♄		minimum elong		10819 Apr 02 01:56	16°♄16'03	1°30'18
evening max el	10818 May 30 00:03	3°♄40'27	18°43'33	max. Earth dist.		10819 Apr 05 07:37	21°♄21'19	1.45561 AU
retrograde	10818 Jun 05 14:30	7°♄17'20				10819 Apr 10 20:33	0°♄	
evening set	10818 Jun 08 21:21	6°♄15'36		evening rise		10819 Apr 18 14:11	11°♄59'22	
inferior conj	10818 Jun 14 12:00	0°♄36'49	3°09'48			10819 Apr 30 08:15	0°♄	
minimum elong	10818 Jun 14 13:15	0°♄32'56	3°09'06	greatest brilliancy		10819 May 01 12:32	1°♄45'51	-0.7m
	10818 Jun 14 23:52	30°♄		asc. node		10819 May 12 22:33	16°♄58'37	
min. Earth dist.	10818 Jun 16 09:22	28°♄16'54	0.65650 AU	evening max el		10819 May 13 07:37	17°♄21'51	19°28'57
morning rise	10818 Jun 20 04:23	24°♄16'19		retrograde		10819 May 20 11:54	21°♄25'27	
direct	10818 Jun 26 15:16	21°♄32'36		evening set		10819 May 24 03:20	20°♄07'59	
desc. node	10818 Jun 28 20:28	21°♄49'33		inferior conj		10819 May 29 12:42	14°♄14'26	3°17'24
morning max el	10818 Jul 09 20:40	29°♄22'34	26°51'00	minimum elong		10819 May 29 12:47	14°♄14'09	3°16'50
	10818 Jul 10 11:16	0°♄		min. Earth dist.		10819 May 30 19:06	12°♄34'14	0.67082 AU
	10818 Aug 01 11:50	0°♄		morning rise		10819 Jun 03 21:50	7°♄53'40	
morning set	10818 Aug 14 15:10	23°♄07'32		direct		10819 Jun 09 22:59	5°♄13'51	
	10818 Aug 18 03:45	0°♄		desc. node		10819 Jun 15 17:31	7°♄08'38	
max. Earth dist.	10818 Aug 18 20:13	1°♄22'18	1.34035 AU	morning max el		10819 Jun 22 07:05	12°♄37'02	25°38'30
asc. node	10818 Aug 22 01:12	7°♄54'41				10819 Jul 06 06:52	0°♄	
						10819 Jul 25 05:07	0°♄	
superior conj	10818 Aug 23 06:44	10°♄28'15	0°12'04	morning set		10819 Jul 28 08:25	5°♄36'53	
minimum elong	10818 Aug 23 06:06	10°♄25'00	0°11'41	max. Earth dist.		10819 Aug 01 01:13	12°♄29'26	1.35877 AU
behind sun begin	10818 Aug 23 02:09	10°♄04'19						
behind sun end	10818 Aug 23 10:04	10°♄45'42		superior conj		10819 Aug 06 22:58	24°♄01'49	-0°18'58
evening rise	10818 Aug 30 15:11	26°♄00'43		minimum elong		10819 Aug 07 00:09	24°♄07'42	0°19'07
	10818 Sep 01 13:10	0°♄		asc. node		10819 Aug 08 22:00	27°♄59'30	
evening max el	10818 Sep 19 12:47	28°♄41'10	21°26'33			10819 Aug 09 21:38	0°♄	
	10818 Sep 20 22:37	0°♄		evening rise		10819 Aug 14 21:58	10°♄18'01	
desc. node	10818 Sep 24 18:17	2°♄45'53				10819 Aug 25 10:01	0°♄	
retrograde	10818 Oct 01 16:37	4°♄43'31		evening max el		10819 Sep 01 16:47	9°♄31'36	20°05'17
evening set	10818 Oct 04 08:22	4°♄27'20		desc. node		10819 Sep 11 15:36	14°♄45'18	
inferior conj	10818 Oct 13 10:02	0°♄31'31	-5°02'12	retrograde		10819 Sep 12 06:09	14°♄46'18	
minimum elong	10818 Oct 13 01:01	0°♄44'09	5°00'03	evening set		10819 Sep 14 04:44	14°♄36'26	
min. Earth dist.	10818 Oct 13 13:20	0°♄26'54	0.54611 AU	inferior conj		10819 Sep 23 04:59	10°♄37'12	-3°28'53
	10818 Oct 14 08:35	30°♄		minimum elong		10819 Sep 22 20:01	10°♄50'38	3°25'48
morning rise	10818 Oct 21 18:31	26°♄41'57		min. Earth dist.		10819 Sep 24 22:18	9°♄35'24	0.54969 AU
direct	10818 Oct 25 13:10	26°♄11'07		morning rise		10819 Oct 01 10:11	6°♄26'52	
	10818 Nov 04 13:14	0°♄		direct		10819 Oct 05 23:50	5°♄41'37	
morning max el	10818 Nov 07 02:48	2°♄10'25	22°21'46	morning max el		10819 Oct 19 14:48	12°♄22'08	24°09'10
asc. node	10818 Nov 18 01:50	16°♄24'53				10819 Nov 02 00:35	0°♄	
	10818 Nov 25 10:57	0°♄		asc. node		10819 Nov 04 22:43	5°♄05'22	
morning set	10818 Nov 28 21:22	7°♄05'35		morning set		10819 Nov 13 09:10	21°♄53'00	
						10819 Nov 17 03:05	0°♄	
superior conj	10818 Dec 05 22:37	22°♄08'46	1°36'57					
minimum elong	10818 Dec 05 23:43	22°♄14'32	1°37'28	superior conj		10819 Nov 20 05:45	6°♄48'05	1°39'39
max. Earth dist.	10818 Dec 09 13:56	29°♄44'51	1.34135 AU	minimum elong		10819 Nov 20 05:40	6°♄47'34	1°40'11
	10818 Dec 09 16:53	0°♄		max. Earth dist.		10819 Nov 22 12:53	11°♄46'16	1.32766 AU
evening rise	10818 Dec 14 01:22	8°♄41'54		evening rise		10819 Nov 27 16:55	22°♄33'45	
desc. node	10818 Dec 21 16:25	22°♄44'11				10819 Dec 01 11:38	0°♄	
	10818 Dec 25 23:54	0°♄		desc. node		10819 Dec 08 13:28	12°♄46'37	
	10819 Jan 17 10:36	0°♄				10819 Dec 19 18:10	0°♄	
evening max el	10819 Jan 17 22:24	0°♄28'41	27°02'52	evening max el		10819 Dec 31 10:40	13°♄46'20	27°29'00
retrograde	10819 Jan 31 06:24	7°♄51'04		retrograde		10820 Jan 14 03:06	21°♄08'25	
evening set	10819 Feb 06 21:41	5°♄17'24		evening set		10820 Jan 21 01:31	18°♄38'28	
min. Earth dist.	10819 Feb 10 20:44	1°♄27'57	0.65492 AU	min. Earth dist.		10820 Jan 24 20:17	15°♄20'21	0.63770 AU
	10819 Feb 12 03:54	30°♄		inferior conj		10820 Jan 27 11:21	12°♄38'48	-1°28'05
inferior conj	10819 Feb 13 00:30	29°♄01'13	-0°19'58	minimum elong		10820 Jan 27 14:09	12°♄31'34	1°26'27
minimum elong	10819 Feb 13 01:04	28°♄59'36	0°19'22	asc. node		10820 Jan 31 21:56	8°♄36'37	
asc. node	10819 Feb 14 00:43	27°♄53'08		morning rise		10820 Feb 03 04:50	7°♄19'58	
morning rise	10819 Feb 19 05:48	23°♄27'22		direct		10820 Feb 05 14:59	6°♄50'59	
direct	10819 Feb 21 23:43	22°♄46'40		morning max el		10820 Feb 12 02:34	10°♄11'50	17°48'28
morning max el	10819 Feb 28 09:00	26°♄08'28	18°04'33			10820 Feb 25 13:17	0°♄	

morning set	10820 Feb 28 16:36	5° K 21'29		morning set	10821 Jan 30 15:15	0° \approx	
desc. node	10820 Mar 05 13:40	15° K 20'19		morning set	10821 Feb 10 12:43	18° \approx 28'35	
					10821 Feb 16 23:56	0° K	
superior conj	10820 Mar 12 11:54	26° K 47'44	-0°50'21	desc. node	10821 Feb 20 10:23	5° K 58'22	
minimum elong	10820 Mar 12 06:31	26° K 25'48	0°49'30				
	10820 Mar 14 11:24	0° Y		superior conj	10821 Feb 21 13:03	7° K 52'34	-0°08'28
max. Earth dist.	10820 Mar 18 02:39	5° Y 48'51	1.44776 AU	minimum elong	10821 Feb 21 12:17	7° K 49'18	0°08'03
evening rise	10820 Mar 28 01:53	21° Y 21'06		behind sun begin	10821 Feb 21 04:47	7° K 17'16	
	10820 Apr 02 18:17	0° B		behind sun end	10821 Feb 21 19:47	8° K 21'17	
	10820 Apr 24 08:51	0° II		max. Earth dist.	10821 Feb 28 17:56	19° K 52'28	1.43355 AU
evening max el	10820 Apr 25 09:40	1° II 05'02	20°29'16		10821 Mar 07 02:16	0° Y	
asc. node	10820 Apr 28 19:45	4° II 02'14		evening rise	10821 Mar 07 18:06	1° Y 01'55	
retrograde	10820 May 03 10:44	5° II 45'17			10821 Mar 27 07:45	0° B	
evening set	10820 May 07 11:30	4° II 12'03		evening max el	10821 Apr 08 06:10	14° B 48'47	21°41'24
	10820 May 11 08:33	30° R 8		asc. node	10821 Apr 15 16:59	19° B 57'40	
inferior conj	10820 May 12 18:25	28° B 05'29	3°12'13	retrograde	10821 Apr 17 08:55	20° B 11'10	
minimum elong	10820 May 12 17:28	28° B 08'44	3°11'40	evening set	10821 Apr 21 20:00	18° B 22'30	
min. Earth dist.	10820 May 13 10:44	27° B 09'29	0.68060 AU	inferior conj	10821 Apr 27 02:50	12° B 05'12	2°56'04
morning rise	10820 May 17 23:11	21° B 47'19		minimum elong	10821 Apr 27 01:07	12° B 11'11	2°55'26
direct	10820 May 23 12:11	19° B 19'47		min. Earth dist.	10821 Apr 27 06:02	11° B 54'03	0.68578 AU
desc. node	10820 Jun 01 14:27	24° B 01'22		morning rise	10821 May 02 06:03	5° B 51'33	
morning max el	10820 Jun 03 16:50	26° B 02'00	24°12'21	direct	10821 May 07 05:50	3° B 42'01	
	10820 Jun 07 08:09	0° II		morning max el	10821 May 17 03:28	9° B 33'24	22°42'29
	10820 Jun 28 19:53	0° E		desc. node	10821 May 19 11:20	12° B 02'10	
morning set	10820 Jul 09 06:39	17° E 12'36			10821 Jun 02 04:58	0° II	
max. Earth dist.	10820 Jul 12 23:11	23° E 42'03	1.38056 AU	morning set	10821 Jun 20 04:44	27° II 41'24	
	10820 Jul 16 10:13	0° O			10821 Jun 21 14:18	0° E	
				max. Earth dist.	10821 Jun 24 20:27	5° E 28'30	1.40350 AU
superior conj	10820 Jul 20 03:22	6° O 59'32	-0°52'13				
minimum elong	10820 Jul 20 06:51	7° O 16'13	0°52'05	superior conj	10821 Jul 02 15:47	19° E 11'36	-1°25'03
asc. node	10820 Jul 25 18:51	17° O 59'54		minimum elong	10821 Jul 02 21:31	19° E 37'34	1°24'49
evening rise	10820 Jul 28 22:50	24° O 15'57			10821 Jul 08 12:02	0° O	
	10820 Jul 31 21:06	0° np		evening rise	10821 Jul 12 14:32	7° O 45'56	
evening max el	10820 Aug 14 10:25	21° np 09'10	19°04'48	asc. node	10821 Jul 12 15:46	7° O 51'45	
retrograde	10820 Aug 23 08:24	25° np 35'39			10821 Jul 25 14:17	0° np	
evening set	10820 Aug 25 05:05	25° np 24'49		evening max el	10821 Jul 28 14:45	3° np 29'49	18°25'34
desc. node	10820 Aug 28 12:53	24° np 16'51		retrograde	10821 Aug 05 05:20	7° np 18'58	
inferior conj	10820 Sep 02 15:07	21° np 11'16	-1°35'19	evening set	10821 Aug 07 07:48	7° np 02'17	
minimum elong	10820 Sep 02 10:59	21° np 18'22	1°33'50	inferior conj	10821 Aug 14 22:38	2° np 28'52	0°08'46
min. Earth dist.	10820 Sep 05 11:33	19° np 14'29	0.56214 AU	minimum elong	10821 Aug 14 22:57	2° np 28'15	0°08'20
morning rise	10820 Sep 10 13:48	16° np 25'17		transit middle	10821 Aug 14 22:57	2° np 28'15	0°08'20
direct	10820 Sep 15 22:48	15° np 17'46		transit begin	10821 Aug 14 19:54	2° np 34'20	
morning max el	10820 Sep 30 03:08	22° np 32'44	25°50'11	transit end	10821 Aug 15 01:59	2° np 22'09	
	10820 Oct 06 18:23	0° O		desc. node	10821 Aug 15 10:08	2° np 05'44	
asc. node	10820 Oct 21 19:33	24° O 16'14			10821 Aug 18 01:13	30° R 8	
	10820 Oct 24 16:44	0° ml		min. Earth dist.	10821 Aug 18 06:38	29° O 49'37	0.58116 AU
morning set	10820 Oct 27 20:23	6° ml 35'48		morning rise	10821 Aug 22 10:33	27° O 06'26	
				direct	10821 Aug 28 12:35	25° O 30'21	
superior conj	10820 Nov 03 16:11	21° ml 34'21	1°36'16		10821 Sep 08 06:44	0° np	
minimum elong	10820 Nov 03 15:03	21° ml 28'06	1°36'38	morning max el	10821 Sep 11 21:04	3° np 09'56	27°07'44
max. Earth dist.	10820 Nov 04 18:17	23° ml 58'39	1.31866 AU		10821 Oct 01 07:56	0° O	
	10820 Nov 07 12:21	0° x		asc. node	10821 Oct 08 16:21	13° O 49'30	
evening rise	10820 Nov 10 16:54	6° x 46'59		morning set	10821 Oct 12 05:24	21° O 09'21	
	10820 Nov 22 23:55	0° Z			10821 Oct 16 07:13	0° ml	
desc. node	10820 Nov 24 10:33	2° Z 23'41					
evening max el	10820 Dec 12 19:32	26° Z 30'02	27°24'41	superior conj	10821 Oct 19 03:56	6° ml 21'36	1°27'10
	10820 Dec 16 23:37	0° \approx		minimum elong	10821 Oct 19 02:03	6° ml 11'09	1°27'16
retrograde	10820 Dec 26 16:28	3° \approx 46'41		max. Earth dist.	10821 Oct 19 03:11	6° ml 17'24	1.31451 AU
evening set	10821 Jan 02 16:39	1° \approx 29'19		evening rise	10821 Oct 25 22:47	21° ml 14'53	
	10821 Jan 04 18:06	30° R 3			10821 Oct 30 04:34	0° x	
min. Earth dist.	10821 Jan 06 09:50	28° Z 36'40	0.61786 AU	desc. node	10821 Nov 11 07:42	21° x 25'20	
inferior conj	10821 Jan 09 10:01	25° Z 52'26	-2°42'41		10821 Nov 17 09:21	0° Z	
minimum elong	10821 Jan 09 15:30	25° Z 39'55	2°40'03	evening max el	10821 Nov 24 22:37	8° Z 29'07	26°46'22
morning rise	10821 Jan 16 16:58	20° Z 51'33		retrograde	10821 Dec 08 21:08	15° Z 37'33	
asc. node	10821 Jan 17 19:06	20° Z 36'00		evening set	10821 Dec 15 15:12	13° Z 42'35	
direct	10821 Jan 18 21:41	20° Z 30'36		min. Earth dist.	10821 Dec 19 12:53	11° Z 05'04	0.59672 AU
morning max el	10821 Jan 25 19:21	24° Z 00'17	17°50'10	inferior conj	10821 Dec 22 17:06	8° Z 33'28	-3°58'29

minimum elong	10821 Dec 23 00:48	8° Z 18'06	3°55'29	morning rise	10822 Dec 12 11:16	16° Z 13'16	
morning rise	10821 Dec 30 13:07	3° Z 53'12		direct	10822 Dec 14 17:29	15° Z 57'36	
direct	10822 Jan 01 15:57	3° Z 36'38		asc. node	10822 Dec 22 13:16	19° Z 20'07	
asc. node	10822 Jan 04 16:12	4° Z 11'46		morning max el	10822 Dec 23 12:09	20° Z 12'31	18°52'49
morning max el	10822 Jan 09 07:51	7° Z 24'25	18°10'59		10822 Dec 30 21:57	0° Z	
	10822 Jan 23 18:41	0° \approx		morning set	10823 Jan 08 22:06	16° Z 35'56	
morning set	10822 Jan 25 00:09	2° \approx 18'20			10823 Jan 15 18:34	0° \approx	
superior conj	10822 Feb 03 13:58	20° \approx 04'08	0°28'27	superior conj	10823 Jan 17 10:12	3° \approx 09'31	0°57'43
minimum elong	10822 Feb 03 16:04	20° \approx 13'35	0°28'31	minimum elong	10823 Jan 17 13:15	3° \approx 23'59	0°57'47
desc. node	10822 Feb 07 07:11	26° \approx 39'43		max. Earth dist.	10823 Jan 24 11:58	16° \approx 09'29	1.39289 AU
	10822 Feb 09 05:27	0° X		desc. node	10823 Jan 25 04:01	17° \approx 20'21	
max. Earth dist.	10822 Feb 11 04:42	3° X 21'08	1.41459 AU	evening rise	10823 Jan 28 09:34	22° \approx 56'08	
evening rise	10822 Feb 16 03:10	11° X 30'54			10823 Feb 01 15:16	0° X	
	10822 Feb 28 01:38	0° Y			10823 Feb 21 23:02	0° Y	
evening max el	10822 Mar 21 22:30	28° Y 34'53	23°00'32	evening max el	10823 Mar 04 12:32	12° Y 24'03	24°20'40
	10822 Mar 23 09:56	0° Z		retrograde	10823 Mar 15 21:19	19° Y 03'30	
retrograde	10822 Apr 01 04:50	4° Z 38'45		asc. node	10823 Mar 20 11:28	17° Y 26'59	
asc. node	10822 Apr 02 14:13	4° Z 29'28		evening set	10823 Mar 21 07:45	16° Y 47'05	
evening set	10822 Apr 06 03:15	2° Z 35'28		min. Earth dist.	10823 Mar 25 22:47	11° Y 29'13	0.68286 AU
	10822 Apr 08 14:53	30° R Y		inferior conj	10823 Mar 26 20:02	10° Y 17'45	1°54'30
inferior conj	10822 Apr 11 12:00	26° Y 10'20	2°30'01	minimum elong	10823 Mar 26 17:55	10° Y 24'53	1°53'47
minimum elong	10822 Apr 11 09:52	26° Y 17'43	2°29'16	morning rise	10823 Apr 01 04:11	4° Y 17'25	
min. Earth dist.	10822 Apr 11 02:47	26° Y 42'13	0.68650 AU	direct	10823 Apr 05 01:44	2° Y 50'45	
morning rise	10822 Apr 16 16:22	20° Y 02'39		morning max el	10823 Apr 12 16:27	7° Y 07'04	20°03'43
direct	10822 Apr 21 02:47	18° Y 14'14		desc. node	10823 Apr 23 04:59	20° Y 19'23	
morning max el	10822 Apr 29 18:20	23° Y 13'55	21°17'31		10823 Apr 29 20:20	0° Z	
	10822 May 05 15:42	0° Z		morning set	10823 May 10 01:33	15° Z 29'41	
desc. node	10822 May 06 08:11	0° Z 52'35			10823 May 19 08:14	0° II	
	10822 May 26 12:53	0° II		max. Earth dist.	10823 May 20 09:45	1° II 41'33	1.44195 AU
morning set	10822 May 31 00:24	6° II 58'33		superior conj	10823 May 25 23:32	10° II 41'17	-2°10'35
max. Earth dist.	10822 Jun 06 23:19	18° II 08'44	1.42484 AU	minimum elong	10823 May 26 02:53	10° II 54'59	2°11'01
superior conj	10822 Jun 14 07:39	0° E 27'39	-1°53'11		10823 Jun 06 12:09	0° E	
minimum elong	10822 Jun 14 14:04	0° E 55'14	1°53'13	evening rise	10823 Jun 08 01:30	2° E 40'08	
	10822 Jun 14 01:12	0° E		asc. node	10823 Jun 16 09:43	16° E 50'16	
evening rise	10822 Jun 25 17:01	20° E 37'34		evening max el	10823 Jun 25 15:24	29° E 39'31	18°06'33
asc. node	10822 Jun 29 12:43	27° E 30'14			10823 Jun 25 23:53	0° O	
	10822 Jun 30 22:30	0° O		retrograde	10823 Jul 02 00:54	2° O 59'50	
evening max el	10822 Jul 12 01:41	16° O 23'08	18°06'30	evening set	10823 Jul 04 19:05	2° O 21'04	
retrograde	10822 Jul 18 20:11	19° O 50'17			10823 Jul 08 04:05	30° R E	
evening set	10822 Jul 21 06:28	19° O 23'54		inferior conj	10823 Jul 11 00:58	27° E 08'06	2°24'51
inferior conj	10822 Jul 28 03:05	14° O 29'52	1°29'22	minimum elong	10823 Jul 11 03:39	27° E 00'58	2°23'39
minimum elong	10822 Jul 28 05:32	14° O 24'09	1°28'08	min. Earth dist.	10823 Jul 13 20:53	24° E 08'50	0.62593 AU
min. Earth dist.	10822 Jul 31 09:12	11° O 29'11	0.60348 AU	morning rise	10823 Jul 17 10:18	20° E 58'43	
desc. node	10822 Aug 02 07:23	9° O 53'12		desc. node	10823 Jul 20 04:35	19° E 21'35	
morning rise	10822 Aug 04 01:43	8° O 38'52		direct	10823 Jul 24 03:16	18° E 31'05	
direct	10822 Aug 10 14:47	6° O 34'06		morning max el	10823 Aug 07 05:06	26° E 33'22	27°54'27
morning max el	10822 Aug 24 22:05	14° O 29'07	27°50'23		10823 Aug 10 10:23	0° O	
	10822 Sep 06 10:29	0° P			10823 Aug 31 01:35	0° P	
	10822 Sep 23 18:15	0° P		morning set	10823 Sep 10 09:09	19° P 26'08	
asc. node	10822 Sep 25 13:08	3° P 38'02		asc. node	10823 Sep 12 09:57	23° P 36'52	
morning set	10822 Sep 26 10:20	5° P 27'49			10823 Sep 15 10:22	0° P	
max. Earth dist.	10822 Oct 02 11:58	18° P 32'47	1.31530 AU	max. Earth dist.	10823 Sep 15 16:50	0° P 34'42	1.32106 AU
superior conj	10822 Oct 03 15:07	21° P 03'04	1°12'38	superior conj	10823 Sep 17 23:56	5° P 33'43	0°52'53
minimum elong	10822 Oct 03 12:53	20° P 50'42	1°12'27	minimum elong	10823 Sep 17 21:51	5° P 22'19	0°52'31
	10822 Oct 07 16:01	0° M		evening rise	10823 Sep 24 19:40	20° P 28'00	
evening rise	10822 Oct 10 08:20	5° M 50'19			10823 Sep 29 09:33	0° M	
	10822 Oct 22 21:26	0° Z		desc. node	10823 Oct 16 02:10	26° M 39'04	
desc. node	10822 Oct 29 04:55	9° Z 36'48		evening max el	10823 Oct 19 05:34	29° M 58'13	24°01'27
evening max el	10822 Nov 06 17:43	19° Z 36'01	25°35'28		10823 Oct 19 06:19	0° Z	
retrograde	10822 Nov 20 14:58	26° Z 35'49		retrograde	10823 Nov 01 20:32	6° Z 47'00	
evening set	10822 Nov 26 16:25	22° Z 11'06		evening set	10823 Nov 06 17:14	5° Z 55'12	
min. Earth dist.	10822 Dec 01 06:03	25° Z 33'39	0.57623 AU	min. Earth dist.	10823 Nov 12 16:09	2° Z 58'57	0.55910 AU
inferior conj	10822 Dec 04 05:08	20° Z 31'05	-5°04'51	inferior conj	10823 Nov 14 20:38	1° Z 39'19	-5°43'51
minimum elong	10822 Dec 04 12:40	20° Z 18'02	5°02'45	minimum elong	10823 Nov 14 23:16	1° Z 35'17	5°43'13

	10823 Nov 17 16:14	30° \mathbb{M}		inferior conj	10824 Oct 24 19:05	12° \mathbb{M} 04'10	-5°34'20
morning rise	10823 Nov 23 07:19	27° \mathbb{M} 42'09		minimum elong	10824 Oct 24 13:29	12° \mathbb{M} 12'05	5°33'20
direct	10823 Nov 25 23:29	27° \mathbb{M} 23'50		morning rise	10824 Nov 02 04:59	8° \mathbb{M} 16'59	
	10823 Dec 03 11:29	0° \mathbb{A}		direct	10824 Nov 05 12:44	7° \mathbb{M} 52'12	
morning max el	10823 Dec 06 04:39	2° \mathbb{A} 14'43	19°57'16	morning max el	10824 Nov 17 07:34	13° \mathbb{M} 26'21	21°23'53
asc. node	10823 Dec 09 10:18	5° \mathbb{A} 47'31		asc. node	10824 Nov 25 07:17	23° \mathbb{M} 18'08	
	10823 Dec 23 13:00	0° \mathbb{B}			10824 Nov 29 08:49	0° \mathbb{A}	
morning set	10823 Dec 24 02:59	1° \mathbb{B} 10'50		morning set	10824 Dec 07 12:10	15° \mathbb{A} 55'40	
					10824 Dec 14 04:44	0° \mathbb{B}	
superior conj	10823 Dec 31 20:56	16° \mathbb{B} 55'10	1°18'54	superior conj	10824 Dec 14 18:05	1° \mathbb{B} 09'32	1°32'23
minimum elong	10823 Dec 31 23:40	17° \mathbb{B} 08'47	1°19'10	minimum elong	10824 Dec 14 19:51	1° \mathbb{B} 18'42	1°32'51
max. Earth dist.	10824 Jan 06 18:32	28° \mathbb{B} 21'25	1.37094 AU	max. Earth dist.	10824 Dec 19 05:08	10° \mathbb{B} 14'51	1.35109 AU
	10824 Jan 07 15:39	0° \mathbb{C}		evening rise	10824 Dec 23 08:20	18° \mathbb{B} 16'19	
evening rise	10824 Jan 10 12:22	5° \mathbb{C} 13'56		desc. node	10824 Dec 28 21:49	28° \mathbb{B} 24'12	
desc. node	10824 Jan 12 00:54	7° \mathbb{C} 56'32			10824 Dec 29 19:49	0° \mathbb{C}	
	10824 Jan 25 13:54	0° \mathbb{H}			10825 Jan 18 18:56	0° \mathbb{H}	
evening max el	10824 Feb 15 01:49	26° \mathbb{H} 13'49	25°34'59	evening max el	10825 Jan 27 15:16	9° \mathbb{H} 59'21	26°36'18
	10824 Feb 19 09:42	0° \mathbb{Y}		retrograde	10825 Feb 09 16:18	17° \mathbb{H} 19'25	
retrograde	10824 Feb 27 09:23	3° \mathbb{Y} 19'21		evening set	10825 Feb 16 01:55	14° \mathbb{H} 46'32	
evening set	10824 Mar 04 07:54	0° \mathbb{Y} 52'29		min. Earth dist.	10825 Feb 20 03:51	10° \mathbb{H} 37'57	0.66331 AU
	10824 Mar 05 07:06	30° \mathbb{R} \mathbb{H}		asc. node	10825 Feb 21 05:59	9° \mathbb{H} 20'24	
asc. node	10824 Mar 06 08:44	28° \mathbb{H} 53'51		inferior conj	10825 Feb 22 00:57	8° \mathbb{H} 23'35	0°15'27
min. Earth dist.	10824 Mar 08 15:50	26° \mathbb{H} 09'41	0.67506 AU	minimum elong	10825 Feb 22 00:31	8° \mathbb{H} 24'50	0°15'33
inferior conj	10824 Mar 10 01:02	24° \mathbb{H} 23'33	1°09'39	transit middle	10825 Feb 22 00:31	8° \mathbb{H} 24'50	0°15'33
minimum elong	10824 Mar 09 23:27	24° \mathbb{H} 28'38	1°09'10	transit begin	10825 Feb 21 23:48	8° \mathbb{H} 27'00	
morning rise	10824 Mar 15 15:30	18° \mathbb{H} 32'00		transit end	10825 Feb 22 01:15	8° \mathbb{H} 22'40	
direct	10824 Mar 19 01:08	17° \mathbb{H} 25'40		morning rise	10825 Feb 28 00:10	2° \mathbb{H} 42'39	
morning max el	10824 Mar 25 22:25	21° \mathbb{H} 11'10	19°04'31	direct	10825 Mar 02 23:17	1° \mathbb{H} 53'42	
	10824 Apr 02 02:53	0° \mathbb{Y}		morning max el	10825 Mar 09 10:54	5° \mathbb{H} 21'07	18°21'34
greatest brilliancy	10824 Apr 08 04:41	8° \mathbb{Y} 52'52	-0.7m	desc. node	10825 Mar 26 22:31	0° \mathbb{Y} 25'05	
desc. node	10824 Apr 09 01:46	10° \mathbb{Y} 12'32			10825 Mar 26 16:13	0° \mathbb{Y}	
morning set	10824 Apr 18 05:01	24° \mathbb{Y} 14'59		morning set	10825 Mar 29 07:26	4° \mathbb{Y} 11'49	
	10824 Apr 21 22:02	0° \mathbb{B}					
max. Earth dist.	10824 May 02 01:43	15° \mathbb{B} 50'17	1.45295 AU	superior conj	10825 Apr 13 23:31	28° \mathbb{Y} 55'46	-1°50'32
				minimum elong	10825 Apr 13 14:21	28° \mathbb{Y} 19'54	1°50'02
superior conj	10824 May 04 17:00	19° \mathbb{B} 59'20	-2°10'43		10825 Apr 14 15:57	0° \mathbb{B}	
minimum elong	10824 May 04 13:15	19° \mathbb{B} 44'34	2°11'01	max. Earth dist.	10825 Apr 14 20:42	0° \mathbb{B} 18'31	1.45680 AU
	10824 May 11 00:05	0° \mathbb{I}		evening rise	10825 Apr 29 21:35	23° \mathbb{B} 50'09	
evening rise	10824 May 19 11:27	13° \mathbb{I} 43'56			10825 May 03 19:46	0° \mathbb{I}	
	10824 May 29 12:03	0° \mathbb{D}		greatest brilliancy	10825 May 10 03:21	9° \mathbb{I} 50'38	-0.8m
asc. node	10824 Jun 02 06:47	5° \mathbb{D} 44'36		asc. node	10825 May 20 03:53	24° \mathbb{I} 05'02	
evening max el	10824 Jun 08 04:35	13° \mathbb{D} 09'51	18°24'57	evening max el	10825 May 22 14:46	26° \mathbb{I} 48'40	19°00'52
retrograde	10824 Jun 14 14:52	16° \mathbb{D} 37'20			10825 May 26 20:46	0° \mathbb{D}	
evening set	10824 Jun 17 16:56	15° \mathbb{D} 44'25		retrograde	10825 May 29 10:21	0° \mathbb{D} 35'50	
inferior conj	10824 Jun 23 12:03	10° \mathbb{D} 14'30	2°58'37		10825 Jun 31 22:00	30° \mathbb{R} \mathbb{I}	
minimum elong	10824 Jun 23 13:57	10° \mathbb{D} 08'54	2°57'44	evening set	10825 Jun 01 20:40	29° \mathbb{I} 27'39	
min. Earth dist.	10824 Jun 25 18:02	7° \mathbb{D} 35'58	0.64629 AU	inferior conj	10825 Jun 07 08:41	23° \mathbb{I} 42'28	3°14'44
morning rise	10824 Jun 29 09:51	3° \mathbb{D} 55'52		minimum elong	10825 Jun 07 09:26	23° \mathbb{I} 40'04	3°14'06
direct	10824 Jul 06 00:20	1° \mathbb{D} 14'49		min. Earth dist.	10825 Jun 08 23:42	21° \mathbb{I} 38'15	0.66312 AU
desc. node	10824 Jul 06 01:45	1° \mathbb{D} 14'49		morning rise	10825 Jun 12 21:36	17° \mathbb{I} 21'07	
morning max el	10824 Jul 19 15:20	9° \mathbb{D} 13'55	27°22'45	direct	10825 Jun 19 04:43	14° \mathbb{I} 37'39	
	10824 Aug 04 20:28	0° \mathbb{Q}		desc. node	10825 Jun 22 22:50	15° \mathbb{I} 26'26	
	10824 Aug 22 10:41	0° \mathbb{P}		morning max el	10825 Jul 02 02:06	22° \mathbb{I} 19'00	26°22'23
morning set	10824 Aug 23 23:14	2° \mathbb{P} 56'59			10825 Jul 08 19:47	0° \mathbb{D}	
max. Earth dist.	10824 Aug 28 13:47	12° \mathbb{P} 13'07	1.33181 AU	morning set	10825 Jul 29 02:55	0° \mathbb{Q}	
asc. node	10824 Aug 29 06:45	13° \mathbb{P} 41'04		max. Earth dist.	10825 Aug 07 01:16	15° \mathbb{Q} 51'49	
					10825 Aug 11 00:12	23° \mathbb{Q} 26'36	1.34758 AU
superior conj	10824 Sep 01 04:17	19° \mathbb{P} 47'17	0°28'15		10825 Aug 14 07:09	0° \mathbb{P}	
minimum elong	10824 Sep 01 02:56	19° \mathbb{P} 40'06	0°27'50	superior conj	10825 Aug 16 01:47	3° \mathbb{P} 37'33	-0°00'44
	10824 Sep 05 22:21	0° \mathbb{L}		minimum elong	10825 Aug 16 01:50	3° \mathbb{P} 37'49	0°01'01
evening rise	10824 Sep 08 06:48	5° \mathbb{L} 02'00		behind sun begin	10825 Aug 15 19:56	3° \mathbb{P} 07'29	
	10824 Sep 21 15:40	0° \mathbb{M}		behind sun end	10825 Aug 16 07:44	4° \mathbb{P} 08'13	
evening max el	10824 Sep 29 17:00	10° \mathbb{M} 04'31	22°20'55	asc. node	10825 Aug 16 03:34	3° \mathbb{P} 46'47	
desc. node	10824 Oct 01 23:27	12° \mathbb{M} 06'44		evening rise	10825 Aug 23 15:46	19° \mathbb{P} 26'48	
retrograde	10824 Oct 12 14:34	16° \mathbb{M} 29'50			10825 Aug 28 21:21	0° \mathbb{L}	
evening set	10824 Oct 15 23:33	16° \mathbb{M} 04'40					
min. Earth dist.	10824 Oct 23 23:31	12° \mathbb{M} 31'47	0.54830 AU				

evening max el	10825 Sep 11 13:26	20° Ω 31'58	20°49'43			10826 Aug 06 01:29	0° Π	
desc. node	10825 Sep 18 20:45	25° Ω 29'41		evening rise		10826 Aug 07 20:23	3° Π 36'56	
retrograde	10825 Sep 23 02:06	26° Ω 15'05				10826 Aug 23 09:07	0° Ω	
evening set	10825 Sep 25 08:04	26° Ω 02'56		evening max el		10826 Aug 24 23:34	1° Ω 43'05	19°37'01
inferior conj	10825 Oct 04 11:06	22° Ω 07'37	-4°27'23	retrograde		10826 Sep 03 19:22	6° Ω 35'55	
minimum elong	10825 Oct 04 01:11	22° Ω 21'45	4°24'31	evening set		10826 Sep 05 15:51	6° Ω 26'16	
min. Earth dist.	10825 Oct 05 07:29	21° Ω 38'33	0.54636 AU	desc. node		10826 Sep 05 18:03	6° Ω 25'19	
morning rise	10825 Oct 12 18:18	18° Ω 11'18		inferior conj		10826 Sep 14 11:13	2° Ω 22'21	-2°41'09
direct	10825 Oct 16 20:51	17° Ω 35'05		minimum elong		10826 Sep 14 04:03	2° Ω 33'38	2°38'32
morning max el	10825 Oct 29 23:02	23° Ω 53'31	23°07'05	min. Earth dist.		10826 Sep 16 18:02	0° Ω 56'17	0.55398 AU
	10825 Nov 04 10:59	0° Π				10826 Sep 18 07:44	30° κ Π	
asc. node	10825 Nov 12 04:13	11° Π 36'49		morning rise		10826 Sep 22 14:11	27° Π 58'08	
morning set	10825 Nov 21 23:31	0° κ 43'36		direct		10826 Sep 27 12:29	27° Π 04'06	
	10825 Nov 21 15:17	0° κ				10826 Oct 06 09:42	0° Ω	
				morning max el		10826 Oct 11 10:02	4° Ω 00'14	24°53'58
superior conj	10825 Nov 28 22:19	15° κ 42'06	1°38'51			10826 Oct 29 18:18	0° Π	
minimum elong	10825 Nov 28 22:53	15° κ 45'13	1°39'25	asc. node		10826 Oct 30 01:05	0° Π 31'37	
max. Earth dist.	10825 Dec 01 23:21	22° κ 09'56	1.33494 AU	morning set		10826 Nov 06 11:17	15° Π 29'44	
	10825 Dec 05 19:01	0° Σ						
evening rise	10825 Dec 06 17:44	1° Σ 53'00		superior conj		10826 Nov 13 07:06	0° κ 25'16	1°38'56
desc. node	10825 Dec 15 18:48	18° Σ 37'41		minimum elong		10826 Nov 13 06:32	0° κ 22'11	1°39'24
	10825 Dec 22 17:57	0° \approx				10826 Nov 13 02:30	0° κ	
evening max el	10826 Jan 10 04:28	23° \approx 31'04	27°17'21	max. Earth dist.		10826 Nov 15 01:26	4° κ 16'46	1.32327 AU
	10826 Jan 19 08:35	0° κ		evening rise		10826 Nov 20 13:14	15° κ 55'20	
retrograde	10826 Jan 23 17:01	0° κ 54'41				10826 Nov 27 19:16	0° Σ	
	10826 Jan 27 18:59	30° κ \approx		desc. node		10826 Dec 02 15:50	8° Σ 30'34	
evening set	10826 Jan 30 11:38	28° \approx 21'47				10826 Dec 17 12:48	0° \approx	
min. Earth dist.	10826 Feb 03 08:41	24° \approx 45'51	0.64797 AU	evening max el		10826 Dec 23 15:50	6° \approx 36'55	27°31'13
inferior conj	10826 Feb 05 17:21	22° \approx 11'28	-0°47'52	retrograde		10827 Jan 06 10:36	13° \approx 56'25	
minimum elong	10826 Feb 05 18:47	22° \approx 07'32	0°46'52	evening set		10827 Jan 13 10:28	11° \approx 31'05	
asc. node	10826 Feb 08 03:13	19° \approx 40'19		min. Earth dist.		10827 Jan 17 04:16	8° \approx 24'26	0.62959 AU
morning rise	10826 Feb 12 03:37	16° \approx 43'29		inferior conj		10827 Jan 19 23:27	5° \approx 40'22	-1°59'08
direct	10826 Feb 14 17:52	16° \approx 08'20		minimum elong		10827 Jan 20 03:22	5° \approx 30'46	1°57'02
morning max el	10826 Feb 21 03:21	19° \approx 28'50	17°55'28	asc. node		10827 Jan 26 00:25	0° \approx 51'53	
	10826 Mar 01 02:09	0° κ		morning rise		10827 Jan 26 22:33	0° \approx 28'26	
morning set	10826 Mar 10 14:59	15° κ 34'46		direct		10827 Jan 29 06:07	0° \approx 03'14	
desc. node	10826 Mar 13 19:13	20° κ 50'52		morning max el		10827 Feb 04 20:55	3° \approx 26'42	17°46'49
	10826 Mar 19 09:16	0° Υ		morning set		10827 Feb 20 23:38	28° \approx 10'07	
						10827 Feb 22 00:50	0° κ	
superior conj	10826 Mar 24 13:05	8° Υ 17'44	-1°14'33	desc. node		10827 Feb 28 15:55	11° κ 25'42	
minimum elong	10826 Mar 24 05:05	7° Υ 45'49	1°13'35					
max. Earth dist.	10826 Mar 28 16:15	14° Υ 50'15	1.45317 AU	superior conj		10827 Mar 04 23:45	18° κ 41'24	-0°32'14
	10826 Apr 07 10:12	0° Σ		minimum elong		10827 Mar 04 20:27	18° κ 27'44	0°31'34
evening rise	10826 Apr 09 13:38	3° Σ 17'48		max. Earth dist.		10827 Mar 11 10:12	29° κ 10'30	1.44253 AU
greatest brilliancy	10826 Apr 24 03:30	25° Σ 18'44	-0.6m			10827 Mar 11 22:35	0° Υ	
	10826 Apr 27 09:52	0° Π		evening rise		10827 Mar 20 01:24	12° Υ 43'33	
evening max el	10826 May 05 20:07	10° Π 31'31	19°53'01			10827 Mar 31 12:35	0° Σ	
asc. node	10826 May 07 01:02	11° Π 40'42		evening max el		10827 Apr 18 19:49	24° Σ 15'20	20°58'49
retrograde	10826 May 13 08:31	14° Π 49'32		asc. node		10827 Apr 23 22:14	28° Σ 17'25	
evening set	10826 May 17 03:48	13° Π 25'29		retrograde		10827 Apr 27 07:09	29° Σ 12'34	
inferior conj	10826 May 22 11:49	7° Π 26'27	3°16'36	evening set		10827 May 01 12:17	27° Σ 32'36	
minimum elong	10826 May 22 11:26	7° Π 27'43	3°16'04	inferior conj		10827 May 06 18:55	21° Σ 21'21	3°06'36
min. Earth dist.	10826 May 23 12:12	6° Π 04'29	0.67559 AU	minimum elong		10827 May 06 17:37	21° Σ 25'54	3°06'01
morning rise	10826 May 27 18:45	1° Π 06'32		min. Earth dist.		10827 May 07 05:32	20° Σ 44'35	0.68343 AU
	10826 May 29 04:12	30° κ Σ		morning rise		10827 May 11 22:43	15° Σ 05'11	
direct	10826 Jun 02 15:04	28° Σ 30'45		direct		10827 May 17 06:14	12° Σ 44'46	
	10826 Jun 07 13:42	0° Π		desc. node		10827 May 27 16:46	18° Σ 53'10	
desc. node	10826 Jun 09 19:51	1° Π 28'50		morning max el		10827 May 27 21:35	19° Σ 05'15	23°33'59
morning max el	10826 Jun 14 11:57	5° Π 38'06	25°02'49			10827 Jun 06 02:37	0° Π	
	10826 Jul 03 07:26	0° Σ				10827 Jun 26 10:40	0° Σ	
morning set	10826 Jul 20 11:03	28° Σ 00'09		morning set		10827 Jul 01 23:28	9° Σ 08'13	
	10826 Jul 21 13:48	0° Ω		max. Earth dist.		10827 Jul 05 22:18	15° Σ 56'15	1.39039 AU
max. Earth dist.	10826 Jul 24 01:10	4° Ω 31'03	1.36770 AU					
				superior conj		10827 Jul 13 11:36	29° Σ 37'07	-1°06'24
superior conj	10826 Jul 30 13:28	16° Ω 57'30	-0°32'55	minimum elong		10827 Jul 13 16:06	29° Σ 58'12	1°06'13
minimum elong	10826 Jul 30 15:35	17° Ω 07'53	0°32'57			10827 Jul 13 16:29	0° Ω	
asc. node	10826 Aug 03 00:23	23° Ω 50'22		asc. node		10827 Jul 20 21:14	13° Ω 47'39	

evening rise	10827 Jul 22 17:46	17°♌24'09			10828 Jul 04 19:52	0°♌	
	10827 Jul 29 10:11	0°♍		evening rise	10828 Jul 05 04:26	0°♌39'47	
evening max el	10827 Aug 07 22:11	13°♍39'37	18°45'32	asc. node	10828 Jul 06 18:09	3°♌34'44	
retrograde	10827 Aug 16 05:21	17°♍48'32		evening max el	10828 Jul 21 05:45	26°♌15'09	18°14'58
evening set	10827 Aug 18 04:07	17°♍35'38		retrograde	10828 Jul 28 10:32	29°♌53'27	
desc. node	10827 Aug 23 15:21	15°♍03'45		evening set	10828 Jul 30 16:08	29°♌33'07	
inferior conj	10827 Aug 26 06:05	13°♍13'33	-0°48'45	inferior conj	10828 Aug 06 22:53	24°♌50'35	0°46'07
minimum elong	10827 Aug 26 04:04	13°♍17'14	0°48'11	minimum elong	10828 Aug 07 00:23	24°♌47'22	0°45'12
min. Earth dist.	10827 Aug 29 09:10	10°♍56'54	0.56964 AU	desc. node	10828 Aug 09 12:36	22°♌38'02	
morning rise	10827 Sep 03 00:41	8°♍11'49		min. Earth dist.	10828 Aug 10 07:17	21°♌59'24	0.59045 AU
direct	10827 Sep 08 17:27	6°♍52'51		morning rise	10828 Aug 14 05:15	19°♌14'24	
morning max el	10827 Sep 23 00:14	14°♍18'32	26°27'01	direct	10828 Aug 20 12:34	17°♌26'00	
	10827 Oct 05 12:45	0°♎		morning max el	10828 Sep 03 21:29	25°♌13'26	27°30'37
asc. node	10827 Oct 16 21:55	19°♎52'44			10828 Sep 08 07:32	0°♍	
morning set	10827 Oct 21 21:46	0°♍08'51			10828 Sep 27 21:22	0°♎	
	10827 Oct 21 20:07	0°♍		asc. node	10828 Oct 02 18:43	9°♎33'14	
				morning set	10828 Oct 05 05:17	14°♎36'38	
superior conj	10827 Oct 28 18:17	15°♍12'04	1°33'05	superior conj	10828 Oct 12 06:01	29°♎57'16	1°21'39
minimum elong	10827 Oct 28 16:48	15°♍03'48	1°33'20	minimum elong	10828 Oct 12 03:56	29°♎45'42	1°21'37
max. Earth dist.	10827 Oct 29 08:54	16°♍33'17	1.31631 AU	max. Earth dist.	10828 Oct 11 18:15	28°♎51'49	1.31422 AU
evening rise	10827 Nov 04 16:00	0°♏15'11			10828 Oct 12 06:30	0°♍	
	10827 Nov 04 13:07	0°♏		evening rise	10828 Oct 18 23:41	14°♍46'34	
desc. node	10827 Nov 19 12:59	27°♏53'59			10828 Oct 26 12:45	0°♏	
	10827 Nov 20 21:01	0°♏		desc. node	10828 Nov 05 10:10	16°♏36'15	
evening max el	10827 Dec 05 22:40	19°♏03'01	27°12'37		10828 Nov 16 06:06	0°♏	
retrograde	10827 Dec 19 20:08	26°♏15'34		evening max el	10828 Nov 16 22:14	0°♏38'53	26°19'46
evening set	10827 Dec 26 19:02	24°♏06'32		retrograde	10828 Nov 30 20:29	7°♏44'20	
min. Earth dist.	10827 Dec 30 13:09	21°♏22'07	0.60896 AU	evening set	10828 Dec 07 09:06	6°♏01'05	
inferior conj	10828 Jan 02 15:56	18°♏41'26	-3°15'09	min. Earth dist.	10828 Dec 11 11:33	3°♏26'01	0.58771 AU
minimum elong	10828 Jan 02 22:30	18°♏27'16	3°12'14	inferior conj	10828 Dec 14 15:11	1°♏04'32	-4°28'43
morning rise	10828 Jan 10 04:36	13°♏48'59		minimum elong	10828 Dec 14 23:16	0°♏49'22	4°25'57
direct	10828 Jan 12 08:09	13°♏30'12			10828 Dec 16 02:06	30°♏♏	
asc. node	10828 Jan 12 21:34	13°♏31'30		morning rise	10828 Dec 22 16:06	26°♏34'13	
morning max el	10828 Jan 19 12:19	17°♏06'06	17°56'38	direct	10828 Dec 24 19:37	26°♏18'30	
	10828 Jan 28 15:24	0°♐		asc. node	10828 Dec 29 18:41	27°♏47'47	
morning set	10828 Feb 04 03:01	11°♐38'04			10829 Jan 01 14:59	0°♏	
superior conj	10828 Feb 14 11:31	0°♐16'41	0°08'03	morning max el	10829 Jan 01 21:52	0°♏16'27	18°26'15
minimum elong	10828 Feb 14 12:13	0°♐19'47	0°08'16	morning set	10829 Jan 17 19:25	25°♏41'06	
behind sun begin	10828 Feb 14 05:12	29°♐49'06			10829 Jan 20 01:23	0°♐	
behind sun end	10828 Feb 14 19:15	0°♐50'24		superior conj	10829 Jan 26 21:19	12°♐53'24	0°41'50
	10828 Feb 14 07:42	0°♐		minimum elong	10829 Jan 27 00:01	13°♐05'50	0°41'52
desc. node	10828 Feb 15 12:41	2°♐06'05		desc. node	10829 Feb 01 09:29	22°♐47'46	
max. Earth dist.	10828 Feb 22 00:17	13°♐03'30	1.42599 AU	max. Earth dist.	10829 Feb 03 09:09	26°♐14'45	1.40545 AU
evening rise	10828 Feb 27 23:51	22°♐43'22			10829 Feb 05 14:02	0°♐	
	10828 Mar 03 15:51	0°♑		evening rise	10829 Feb 07 17:47	3°♐36'03	
	10828 Mar 24 16:19	0°♑			10829 Feb 24 21:54	0°♑	
evening max el	10828 Mar 31 14:20	8°♑00'29	22°14'27	evening max el	10829 Mar 14 05:17	21°♑47'40	23°34'48
asc. node	10828 Apr 09 19:28	13°♑40'04		retrograde	10829 Mar 24 23:22	28°♑08'25	
retrograde	10828 Apr 10 04:35	13°♑40'46		asc. node	10829 Mar 27 16:43	27°♑33'17	
evening set	10828 Apr 14 20:29	11°♑45'28		evening set	10829 Mar 30 02:48	25°♑59'09	
inferior conj	10828 Apr 20 03:55	5°♑24'21	2°46'10	min. Earth dist.	10829 Apr 03 22:26	20°♑20'55	0.68546 AU
minimum elong	10828 Apr 20 01:58	5°♑31'07	2°45'29	inferior conj	10829 Apr 04 12:51	19°♑31'27	2°16'07
min. Earth dist.	10828 Apr 20 01:40	5°♑32'10	0.68667 AU	minimum elong	10829 Apr 04 10:40	19°♑38'56	2°15'22
	10828 Apr 24 11:13	30°♑♑		morning rise	10829 Apr 09 18:31	13°♑26'40	
morning rise	10828 Apr 25 07:19	29°♑13'18		direct	10829 Apr 13 23:15	11°♑47'47	
direct	10828 Apr 30 01:20	27°♑12'47		morning max el	10829 Apr 22 03:40	16°♑28'06	20°44'28
	10828 May 06 10:13	0°♒		desc. node	10829 Apr 30 10:29	26°♑25'18	
morning max el	10828 May 09 09:49	2°♒41'25	22°05'20		10829 May 03 01:06	0°♒	
desc. node	10828 May 13 13:39	7°♒17'35		morning set	10829 May 21 20:18	27°♒59'24	
	10828 May 30 02:08	0°♓			10829 May 23 03:14	0°♓	
morning set	10828 Jun 11 10:15	19°♓06'35		max. Earth dist.	10829 May 30 03:42	11°♓09'33	1.43278 AU
max. Earth dist.	10828 Jun 16 22:01	28°♓07'13	1.41299 AU	superior conj	10829 Jun 05 21:41	22°♓16'24	-2°02'18
	10828 Jun 18 00:53	0°♓		minimum elong	10829 Jun 06 03:23	22°♓40'20	2°02'30
superior conj	10828 Jun 24 15:48	11°♓26'39	-1°37'52		10829 Jun 10 10:48	0°♓	
minimum elong	10828 Jun 24 22:08	11°♓54'44	1°37'43				

evening rise	10829 Jun 17 23:53	13°☿12'08		superior conj	10830 May 17 03:25	2°♊04'52	-2°13'04
asc. node	10829 Jun 23 15:07	23°☿06'22		minimum elong	10830 May 17 04:03	2°♊07'27	2°13'33
	10829 Jun 27 18:18	0°♊		evening rise	10830 May 30 23:12	24°♊50'23	
evening max el	10829 Jul 04 18:16	9°♊19'29	18°04'14		10830 Jun 03 00:48	0°☿	
retrograde	10829 Jul 11 07:50	12°♊42'07		asc. node	10830 Jun 10 12:08	12°☿16'35	
evening set	10829 Jul 13 21:22	12°♊10'54		evening max el	10830 Jun 18 08:10	22°☿43'17	18°12'13
inferior conj	10829 Jul 20 11:16	7°♊08'49	1°55'49	retrograde	10830 Jun 24 16:48	26°☿04'42	
minimum elong	10829 Jul 20 14:00	7°♊02'04	1°54'31	evening set	10830 Jun 27 14:22	25°☿20'05	
min. Earth dist.	10829 Jul 23 13:53	4°♊05'41	0.61316 AU	inferior conj	10830 Jul 03 15:14	19°☿59'59	2°41'34
morning rise	10829 Jul 27 04:05	1°♊08'30		minimum elong	10830 Jul 03 17:40	19°☿53'13	2°40'29
desc. node	10829 Jul 27 09:50	0°♊58'57		min. Earth dist.	10830 Jul 06 05:37	17°☿07'19	0.63502 AU
	10829 Jul 29 03:13	30°♋☿		morning rise	10830 Jul 09 19:24	13°☿45'53	
direct	10829 Aug 02 19:39	28°☿52'42		desc. node	10830 Jul 14 07:01	11°☿27'19	
	10829 Aug 07 18:17	0°♊		direct	10830 Jul 16 12:12	11°☿10'56	
morning max el	10829 Aug 17 01:25	6°♊52'55	27°56'44	morning max el	10830 Jul 30 09:54	19°☿13'20	27°44'53
	10829 Sep 03 14:10	0°♋			10830 Aug 08 13:19	0°♊	
morning set	10829 Sep 19 07:55	28°♋47'53			10830 Aug 27 13:17	0°♋	
asc. node	10829 Sep 19 15:32	29°♋27'11		morning set	10830 Sep 03 03:20	12°♋35'25	
	10829 Sep 19 21:51	0°♌		asc. node	10830 Sep 06 12:18	19°♋28'54	
max. Earth dist.	10829 Sep 25 01:42	11°♌02'24	1.31705 AU	max. Earth dist.	10830 Sep 08 03:24	22°♋54'20	1.32498 AU
superior conj	10829 Sep 26 16:28	14°♌35'26	1°04'53	superior conj	10830 Sep 10 23:38	28°♋59'54	0°43'01
minimum elong	10829 Sep 26 14:14	14°♌23'06	1°04'36	minimum elong	10830 Sep 10 21:47	28°♋49'52	0°42'36
evening rise	10829 Oct 03 10:14	29°♌23'56			10830 Sep 11 10:44	0°♌	
	10829 Oct 03 16:57	0°♍		evening rise	10830 Sep 17 21:40	14°♌00'51	
	10829 Oct 20 03:06	0°♎			10830 Sep 25 20:21	0°♍	
desc. node	10829 Oct 23 07:23	4°♎21'35		desc. node	10830 Oct 10 04:39	20°♍47'26	
evening max el	10829 Oct 29 13:46	11°♎25'01	24°57'31	evening max el	10830 Oct 11 00:32	21°♍36'54	23°18'34
retrograde	10829 Nov 12 09:49	18°♎21'41		retrograde	10830 Oct 24 09:57	28°♍17'12	
evening set	10829 Nov 18 00:10	17°♎11'13		evening set	10830 Oct 28 15:23	27°♍38'23	
min. Earth dist.	10829 Nov 23 01:34	14°♎27'53	0.56825 AU	min. Earth dist.	10830 Nov 04 10:13	24°♍28'30	0.55355 AU
inferior conj	10829 Nov 25 18:31	12°♎42'00	-5°26'05	inferior conj	10830 Nov 06 01:58	23°♍30'33	-5°46'50
minimum elong	10829 Nov 26 00:38	12°♎32'00	5°24'40	minimum elong	10830 Nov 06 01:10	23°♍31'43	5°46'22
morning rise	10829 Dec 04 03:22	8°♎33'36		morning rise	10830 Nov 14 12:43	19°♍39'05	
direct	10829 Dec 06 12:43	8°♎17'25		direct	10830 Nov 17 11:02	19°♍18'24	
morning max el	10829 Dec 15 21:40	12°♎47'05	19°17'28	morning max el	10830 Nov 28 08:20	24°♍27'34	20°31'31
asc. node	10829 Dec 16 15:45	13°♎32'11			10830 Dec 03 04:22	0°♎	
	10829 Dec 27 15:33	0°♏		asc. node	10830 Dec 03 12:46	0°♎28'24	
morning set	10830 Jan 01 20:42	10°♏07'18		morning set	10830 Dec 17 03:40	24°♎47'06	
					10830 Dec 19 16:10	0°♏	
superior conj	10830 Jan 10 00:17	26°♏17'49	1°07'39	superior conj	10830 Dec 24 15:50	10°♏16'29	1°25'30
minimum elong	10830 Jan 10 03:18	26°♏32'30	1°07'48	minimum elong	10830 Dec 24 18:12	10°♏28'32	1°25'52
	10830 Jan 11 22:27	0°♐		max. Earth dist.	10830 Dec 29 22:52	20°♏45'57	1.36216 AU
max. Earth dist.	10830 Jan 16 15:06	8°♐44'21	1.38338 AU	evening rise	10831 Jan 02 19:46	28°♏03'00	
desc. node	10830 Jan 19 06:21	13°♐27'22			10831 Jan 03 21:25	0°♐	
evening rise	10830 Jan 20 09:13	15°♐25'06		desc. node	10831 Jan 06 03:15	4°♐00'28	
	10830 Jan 29 03:54	0°♑			10831 Jan 22 11:55	0°♑	
	10830 Feb 19 14:32	0°♒		evening max el	10831 Feb 07 08:23	19°♑27'21	26°03'12
evening max el	10830 Feb 24 18:51	5°♒37'49	24°53'25	retrograde	10831 Feb 20 00:04	26°♑39'53	
retrograde	10830 Mar 08 14:12	12°♒30'10		evening set	10831 Feb 26 03:24	24°♑10'09	
evening set	10830 Mar 14 05:39	10°♒09'06		asc. node	10831 Mar 01 11:15	20°♑46'42	
asc. node	10830 Mar 14 13:59	9°♒50'53		min. Earth dist.	10831 Mar 02 08:48	19°♑41'50	0.67052 AU
min. Earth dist.	10830 Mar 18 17:34	5°♒05'55	0.68002 AU	inferior conj	10831 Mar 03 22:57	17°♑43'10	0°47'51
inferior conj	10830 Mar 19 19:51	3°♒39'07	1°36'41	minimum elong	10831 Mar 03 21:47	17°♑46'50	0°47'34
minimum elong	10830 Mar 19 17:53	3°♒45'37	1°36'01	morning rise	10831 Mar 09 16:49	11°♑55'39	
	10830 Mar 22 18:19	30°♓♑		direct	10831 Mar 12 21:53	10°♑56'56	
morning rise	10830 Mar 25 06:21	27°♓42'03		morning max el	10831 Mar 19 13:58	14°♓33'09	18°44'12
direct	10830 Mar 28 22:39	26°♓24'16			10831 Mar 31 04:29	0°♒	
	10830 Apr 04 18:13	0°♒		desc. node	10831 Apr 04 04:03	6°♒06'59	
morning max el	10830 Apr 05 05:05	0°♒26'14	19°36'31	morning set	10831 Apr 10 06:54	15°♒39'26	
desc. node	10830 Apr 17 07:17	16°♒04'36			10831 Apr 19 11:12	0°♓	
greatest brilliancy	10830 Apr 17 22:03	16°♒58'38	-0.7m	max. Earth dist.	10831 Apr 25 10:11	9°♓18'47	1.45553 AU
	10830 Apr 26 14:07	0°♔		superior conj	10831 Apr 26 14:18	11°♓08'54	-2°04'33
morning set	10830 Apr 30 19:22	6°♔27'51		minimum elong	10831 Apr 26 07:35	10°♓42'35	2°04'34
max. Earth dist.	10830 May 12 16:17	24°♔58'06	1.44750 AU		10831 May 08 12:35	0°♔	
	10830 May 15 20:14	0°♕					

evening rise	10831 May 11 22:53	5° Π 29'18		desc. node	10832 Mar 21 00:46	26° X 25'39	
greatest brilliancy	10831 May 18 19:02	16° Π 27'32	-0.9m		10832 Mar 23 05:45	0° Υ	
	10831 May 27 16:15	0° S					
asc. node	10831 May 28 09:13	0° S 58'16		superior conj	10832 Apr 04 21:27	20° Υ 09'38	-1°36'41
evening max el	10831 Jun 01 20:27	6° S 19'02	18°38'09	minimum elong	10832 Apr 04 12:01	19° Υ 32'31	1°35'53
retrograde	10831 Jun 08 09:30	9° S 53'00		max. Earth dist.	10832 Apr 07 06:15	23° Υ 52'21	1.45613 AU
evening set	10831 Jun 11 15:07	8° S 53'31			10832 Apr 11 04:25	0° S	
inferior conj	10831 Jun 17 06:48	3° S 16'53	3°07'21	evening rise	10832 Apr 21 00:06	15° S 15'47	
minimum elong	10831 Jun 17 08:14	3° S 12'31	3°06'35		10832 Apr 30 13:15	0° Π	
min. Earth dist.	10831 Jun 19 06:23	0° S 51'55	0.65400 AU	greatest brilliancy	10832 May 03 06:39	4° Π 07'46	-0.7m
	10831 Jun 20 00:06	30° R Π		asc. node	10832 May 14 06:20	19° Π 01'14	
morning rise	10831 Jun 23 00:31	26° Π 56'46		evening max el	10832 May 15 04:43	19° Π 59'53	19°21'08
direct	10831 Jun 29 12:28	24° Π 13'31		retrograde	10832 May 22 06:31	23° Π 58'59	
desc. node	10831 Jul 01 04:08	24° Π 22'55		evening set	10832 May 25 20:36	22° Π 43'55	
	10831 Jul 10 16:06	0° S		inferior conj	10832 May 31 06:32	16° Π 52'24	3°17'05
morning max el	10831 Jul 12 20:31	2° S 06'00	27°00'03	minimum elong	10832 May 31 06:48	16° Π 51'33	3°16'31
	10831 Aug 02 18:04	0° Ω		min. Earth dist.	10832 Jun 01 15:08	15° Π 05'50	0.66896 AU
morning set	10831 Aug 17 12:43	25° Ω 52'20		morning rise	10832 Jun 05 16:34	10° Π 31'17	
	10831 Aug 19 15:35	0° M		direct	10832 Jun 11 19:16	7° Π 50'21	
max. Earth dist.	10831 Aug 21 20:11	4° M 22'38	1.33802 AU	desc. node	10832 Jun 17 01:12	9° Π 25'20	
asc. node	10831 Aug 24 09:05	9° M 34'30		morning max el	10832 Jun 24 07:09	15° Π 18'51	25°50'23
					10832 Jul 06 08:31	0° S	
superior conj	10831 Aug 26 01:24	13° M 04'52	0°16'27		10832 Jul 25 14:24	0° Ω	
minimum elong	10831 Aug 26 00:33	13° M 00'28	0°16'04	morning set	10832 Jul 30 08:24	8° Ω 28'53	
evening rise	10831 Sep 02 08:09	28° M 32'17		max. Earth dist.	10832 Aug 03 02:36	15° Ω 31'20	1.35576 AU
	10831 Sep 03 00:52	0° S					
	10831 Sep 20 21:34	0° M		superior conj	10832 Aug 08 19:06	26° Ω 43'06	-0°14'04
evening max el	10831 Sep 22 14:47	1° M 48'05	21°40'09	minimum elong	10832 Aug 08 19:57	26° Ω 47'26	0°14'16
desc. node	10831 Sep 27 01:55	5° M 25'55		behind sun begin	10832 Aug 08 17:04	26° Ω 32'53	
retrograde	10831 Oct 04 23:33	7° M 56'57		behind sun end	10832 Aug 08 22:50	27° Ω 02'00	
evening set	10831 Oct 07 19:27	7° M 38'48		asc. node	10832 Aug 10 05:53	29° Ω 39'43	
inferior conj	10831 Oct 16 19:55	3° M 42'08	-5°12'28		10832 Aug 10 09:51	0° M	
minimum elong	10831 Oct 16 11:33	3° M 53'49	5°10'37	evening rise	10832 Aug 16 15:35	12° M 51'53	
min. Earth dist.	10831 Oct 16 17:07	3° M 46'02	0.54640 AU		10832 Aug 25 13:28	0° S	
	10831 Oct 24 19:55	30° R S		evening max el	10832 Sep 03 16:41	12° S 31'59	20°16'06
morning rise	10831 Oct 25 04:48	29° S 54'00		desc. node	10832 Sep 12 23:12	17° S 48'00	
direct	10831 Oct 28 20:37	29° S 24'54		retrograde	10832 Sep 14 12:18	17° S 54'22	
	10831 Nov 01 18:17	0° M		evening set	10832 Sep 16 12:10	17° S 44'12	
morning max el	10831 Nov 10 05:34	5° M 17'30	22°06'21	inferior conj	10832 Sep 25 13:37	13° S 46'19	-3°45'08
asc. node	10831 Nov 20 09:42	18° M 20'51		minimum elong	10832 Sep 25 04:11	14° S 00'13	3°42'01
	10831 Nov 26 21:29	0° S		min. Earth dist.	10832 Sep 27 01:47	12° S 52'59	0.54850 AU
morning set	10831 Dec 01 13:59	9° S 33'48		morning rise	10832 Oct 03 19:23	9° S 40'09	
				direct	10832 Oct 08 06:03	8° S 57'33	
superior conj	10831 Dec 08 16:18	24° S 39'10	1°35'57	morning max el	10832 Oct 21 18:16	15° S 32'43	23°53'13
minimum elong	10831 Dec 08 17:34	24° S 45'53	1°36'28		10832 Nov 02 03:54	0° M	
	10831 Dec 11 05:43	0° S		asc. node	10832 Nov 06 06:36	6° M 56'13	
max. Earth dist.	10831 Dec 12 12:44	2° S 39'03	1.34375 AU	morning set	10832 Nov 15 01:45	24° M 22'00	
evening rise	10831 Dec 16 21:50	11° S 20'34			10832 Nov 17 16:27	0° S	
desc. node	10831 Dec 24 00:10	24° S 22'35					
	10831 Dec 27 07:27	0° \approx		superior conj	10832 Nov 21 22:46	9° S 17'31	1°39'39
	10832 Jan 17 20:32	0° X		minimum elong	10832 Nov 21 22:51	9° S 17'57	1°40'11
evening max el	10832 Jan 20 21:53	3° X 08'09	26°56'42	max. Earth dist.	10832 Nov 24 10:29	14° S 39'03	1.32936 AU
retrograde	10832 Feb 03 04:10	10° X 30'10		evening rise	10832 Nov 29 11:54	25° S 09'12	
evening set	10832 Feb 09 18:08	7° X 56'26			10832 Dec 01 22:45	0° S	
min. Earth dist.	10832 Feb 13 17:52	4° X 02'13	0.65721 AU	desc. node	10832 Dec 09 21:09	14° S 28'22	
inferior conj	10832 Feb 15 19:57	1° X 38'20	-0°10'20		10832 Dec 19 18:48	0° \approx	
minimum elong	10832 Feb 15 20:14	1° X 37'32	0°09'54	evening max el	10833 Jan 02 10:23	16° \approx 30'03	27°26'53
transit middle	10832 Feb 15 20:14	1° X 37'32	0°09'54	retrograde	10833 Jan 16 02:01	23° \approx 53'02	
transit begin	10832 Feb 15 17:53	1° X 44'16		evening set	10833 Jan 22 23:36	21° \approx 21'57	
transit end	10832 Feb 15 22:34	1° X 30'48		min. Earth dist.	10833 Jan 26 18:50	17° \approx 59'25	0.64046 AU
asc. node	10832 Feb 16 08:31	1° X 02'19		inferior conj	10833 Jan 29 08:20	15° \approx 19'14	-1°17'16
	10832 Feb 17 06:47	30° R \approx		minimum elong	10833 Jan 29 10:46	15° \approx 12'53	1°15'48
morning rise	10832 Feb 21 23:36	26° \approx 02'42		asc. node	10833 Feb 02 05:44	11° \approx 38'12	
direct	10832 Feb 24 18:50	25° \approx 19'58		morning rise	10833 Feb 04 23:55	9° \approx 58'02	
morning max el	10832 Mar 02 04:27	28° \approx 42'46	18°08'26	direct	10833 Feb 07 11:02	9° \approx 27'37	
	10832 Mar 03 09:59	0° X		morning max el	10833 Feb 13 21:52	12° \approx 48'06	17°49'43
morning set	10832 Mar 20 21:44	26° X 13'22			10833 Feb 25 20:56	0° X	

morning set	10833 Mar 02 16:44	8° H 09'36		morning set	10834 Jan 31 12:51	0° \approx	
desc. node	10833 Mar 07 21:29	16° H 56'00		morning set	10834 Feb 13 10:07	21° \approx 09'16	
					10834 Feb 18 09:48	0° H	
superior conj	10833 Mar 15 18:58	29° H 55'44	-0°56'49	desc. node	10834 Feb 22 18:12	7° H 33'22	
minimum elong	10833 Mar 15 12:50	29° H 30'56	0°55'55				
	10833 Mar 15 20:02	0° Y		superior conj	10834 Feb 24 16:22	10° H 50'01	-0°14'35
max. Earth dist.	10833 Mar 21 01:21	8° Y 21'03	1.44939 AU	minimum elong	10834 Feb 24 14:59	10° H 44'11	0°14'07
evening rise	10833 Mar 31 12:24	24° Y 37'39		behind sun begin	10834 Feb 24 10:49	10° H 26'29	
	10833 Apr 04 00:51	0° B		behind sun end	10834 Feb 24 19:10	11° H 01'52	
	10833 Apr 24 24:00	0° II		max. Earth dist.	10834 Mar 03 17:12	22° H 28'49	1.43608 AU
evening max el	10833 Apr 28 07:35	3° II 42'47	20°19'27		10834 Mar 08 10:11	0° Y	
asc. node	10833 May 01 03:31	6° II 13'40		evening rise	10834 Mar 11 03:02	4° Y 13'41	
retrograde	10833 May 06 05:16	8° II 17'12			10834 Mar 28 10:29	0° B	
evening set	10833 May 10 04:33	6° II 46'25		evening max el	10834 Apr 11 04:55	17° B 26'47	21°30'08
inferior conj	10833 May 15 11:40	0° II 41'43	3°13'42	asc. node	10834 Apr 18 00:45	22° B 20'42	
minimum elong	10833 May 15 10:52	0° II 44'28	3°13'10	retrograde	10834 Apr 20 03:36	22° B 42'33	
	10833 May 15 23:51	30° R B		evening set	10834 Apr 24 13:07	20° B 56'12	
min. Earth dist.	10833 May 16 06:04	29° B 38'50	0.67944 AU	inferior conj	10834 Apr 29 19:51	14° B 40'29	2°59'10
morning rise	10833 May 20 16:54	24° B 22'55		minimum elong	10834 Apr 29 18:13	14° B 46'07	2°58'32
direct	10833 May 26 07:50	21° B 53'00		min. Earth dist.	10834 Apr 30 00:59	14° B 22'35	0.68532 AU
desc. node	10833 Jun 03 22:12	26° B 05'35		morning rise	10834 May 04 23:07	8° B 26'06	
morning max el	10833 Jun 06 16:54	28° B 42'24	24°25'35	direct	10834 May 10 00:56	6° B 13'32	
	10833 Jun 07 22:42	0° II		morning max el	10834 May 20 03:07	12° B 12'33	22°55'42
	10833 Jun 30 02:27	0° B		desc. node	10834 May 21 19:08	13° B 57'33	
morning set	10833 Jul 12 09:47	20° B 13'33			10834 Jun 03 08:16	0° II	
max. Earth dist.	10833 Jul 16 00:58	26° B 40'07	1.37715 AU		10834 Jun 22 22:53	0° B	
	10833 Jul 17 20:52	0° Q		morning set	10834 Jun 23 11:45	0° B 53'08	
				max. Earth dist.	10834 Jun 27 21:57	8° B 20'21	1.40011 AU
superior conj	10833 Jul 23 01:30	9° Q 46'51	-0°47'07				
minimum elong	10833 Jul 23 04:38	10° Q 01'54	0°47'03	superior conj	10834 Jul 05 16:38	22° B 06'53	-1°20'14
asc. node	10833 Jul 28 02:42	19° Q 41'00		minimum elong	10834 Jul 05 22:04	22° B 31'45	1°20'02
evening rise	10833 Jul 31 17:31	26° Q 53'14			10834 Jul 09 22:38	0° Q	
	10833 Aug 02 07:15	0° P		asc. node	10834 Jul 14 23:35	9° Q 34'37	
evening max el	10833 Aug 17 08:29	24° P 03'05	19°12'29	evening rise	10834 Jul 15 10:51	10° Q 28'18	
retrograde	10833 Aug 26 11:58	28° P 36'03			10834 Jul 26 11:07	0° P	
evening set	10833 Aug 28 08:14	28° P 25'43		evening max el	10834 Jul 31 11:34	6° P 18'28	18°30'09
desc. node	10833 Aug 30 20:31	27° P 41'02		retrograde	10834 Aug 08 06:01	10° P 12'09	
inferior conj	10833 Sep 05 20:55	24° P 15'01	-1°52'28	evening set	10834 Aug 10 07:30	9° P 56'32	
minimum elong	10833 Sep 05 15:59	24° P 23'18	1°50'39	desc. node	10834 Aug 17 17:49	5° P 40'35	
min. Earth dist.	10833 Sep 08 14:23	22° P 25'47	0.55977 AU	inferior conj	10834 Aug 18 01:13	5° P 26'07	-0°05'41
morning rise	10833 Sep 13 20:49	19° P 34'44		minimum elong	10834 Aug 18 01:00	5° P 26'34	0°05'53
direct	10833 Sep 19 03:09	18° P 30'49		transit middle	10834 Aug 18 01:00	5° P 26'34	0°05'53
morning max el	10833 Oct 03 06:04	25° P 41'30	25°36'17	transit begin	10834 Aug 17 21:40	5° P 33'06	
	10833 Oct 07 07:36	0° Q		transit end	10834 Aug 18 04:20	5° P 20'02	
asc. node	10833 Oct 24 03:27	26° Q 03'13		min. Earth dist.	10834 Aug 21 08:26	2° P 52'09	0.57805 AU
	10833 Oct 26 03:50	0° M		morning rise	10834 Aug 25 14:59	0° P 08'58	
morning set	10833 Oct 30 13:10	9° M 05'51			10834 Aug 25 22:19	30° R Q	
				direct	10834 Aug 31 14:52	28° Q 37'20	
superior conj	10833 Nov 06 08:50	24° M 03'22	1°37'10		10834 Sep 06 10:34	0° P	
minimum elong	10833 Nov 06 07:51	23° M 57'54	1°37'33	morning max el	10834 Sep 14 22:55	6° P 13'21	26°58'12
max. Earth dist.	10833 Nov 07 15:01	26° M 49'46	1.31966 AU		10834 Oct 02 14:08	0° Q	
	10833 Nov 09 01:46	0° X		asc. node	10834 Oct 11 00:16	15° Q 33'36	
evening rise	10833 Nov 13 10:48	9° X 19'59		morning set	10834 Oct 14 22:37	23° Q 41'01	
	10833 Nov 24 07:01	0° B			10834 Oct 17 20:45	0° M	
desc. node	10833 Nov 26 18:14	4° B 09'54					
evening max el	10833 Dec 15 19:59	29° B 20'05	27°27'30	superior conj	10834 Oct 21 20:32	8° M 50'45	1°28'54
	10833 Dec 16 13:10	0° \approx		minimum elong	10834 Oct 21 18:45	8° M 40'48	1°29'03
retrograde	10833 Dec 29 16:36	6° \approx 37'47		max. Earth dist.	10834 Oct 21 23:41	9° M 08'20	1.31485 AU
evening set	10834 Jan 05 16:51	4° \approx 18'08		evening rise	10834 Oct 28 15:59	23° M 46'09	
min. Earth dist.	10834 Jan 09 10:03	1° \approx 22'02	0.62094 AU		10834 Oct 31 15:56	0° X	
	10834 Jan 10 21:47	30° R B		desc. node	10834 Nov 13 15:23	23° X 17'31	
inferior conj	10834 Jan 12 09:04	28° B 37'21	-2°31'08		10834 Nov 18 05:19	0° B	
minimum elong	10834 Jan 12 14:08	28° B 25'32	2°28'37	evening max el	10834 Nov 28 00:14	11° B 26'34	26°54'15
morning rise	10834 Jan 19 13:58	23° B 33'28		retrograde	10834 Dec 11 22:32	18° B 35'47	
asc. node	10834 Jan 20 02:56	23° B 24'12		evening set	10834 Dec 18 18:07	16° B 37'02	
direct	10834 Jan 21 19:17	23° B 11'34		min. Earth dist.	10834 Dec 22 14:39	13° B 58'05	0.59990 AU
morning max el	10834 Jan 28 14:58	26° B 39'28	17°48'41	inferior conj	10834 Dec 25 18:41	11° B 23'43	-3°47'17

minimum elong	10834 Dec 26 02:08	11° ♁ 08'32	3°44'17	morning rise	10835 Dec 15 14:39	19° ♁ 07'08	
morning rise	10835 Jan 02 12:51	6° ♁ 40'05		direct	10835 Dec 17 20:01	18° ♁ 51'32	
direct	10835 Jan 04 15:45	6° ♁ 23'02		asc. node	10835 Dec 24 21:09	21° ♁ 39'57	
asc. node	10835 Jan 07 00:04	6° ♁ 44'52		morning max el	10835 Dec 26 10:04	23° ♁ 01'37	18°45'16
morning max el	10835 Jan 12 04:18	10° ♁ 07'30	18°06'36		10836 Jan 01 00:10	0° ♁	
	10835 Jan 25 04:25	0° ♁		morning set	10836 Jan 11 16:16	19° ♁ 08'09	
morning set	10835 Jan 27 19:37	4° ♁ 53'47			10836 Jan 17 06:07	0° ♁	
superior conj	10835 Feb 06 13:59	22° ♁ 52'18	0°23'18	superior conj	10836 Jan 20 07:41	5° ♁ 50'57	0°53'46
minimum elong	10835 Feb 06 15:47	23° ♁ 00'20	0°23'25	minimum elong	10836 Jan 20 10:41	6° ♁ 05'05	0°53'51
desc. node	10835 Feb 09 14:58	28° ♁ 14'20		desc. node	10836 Jan 27 11:47	18° ♁ 55'25	
	10835 Feb 10 15:20	0° ♁		max. Earth dist.	10836 Jan 27 12:46	18° ♁ 59'45	1.39616 AU
max. Earth dist.	10835 Feb 14 04:58	6° ♁ 04'34	1.41767 AU	evening rise	10836 Jan 31 12:22	25° ♁ 51'48	
evening rise	10835 Feb 19 09:10	14° ♁ 34'43			10836 Feb 02 23:49	0° ♁	
	10835 Mar 01 07:32	0° ♁			10836 Feb 22 23:40	0° ♁	
	10835 Mar 23 17:37	0° ♁		evening max el	10836 Mar 06 12:01	15° ♁ 01'43	24°08'52
evening max el	10835 Mar 24 21:50	1° ♁ 12'50	22°48'32	retrograde	10836 Mar 17 17:01	21° ♁ 36'34	
retrograde	10835 Apr 03 23:56	7° ♁ 10'29		asc. node	10836 Mar 21 19:16	20° ♁ 19'01	
asc. node	10835 Apr 04 22:00	7° ♁ 06'24		evening set	10836 Mar 23 01:41	19° ♁ 21'50	
evening set	10835 Apr 08 20:40	5° ♁ 09'12		min. Earth dist.	10836 Mar 27 17:49	13° ♁ 58'48	0.68370 AU
	10835 Apr 13 07:22	30° ♁		inferior conj	10836 Mar 28 13:21	12° ♁ 52'47	2°00'33
inferior conj	10835 Apr 14 05:01	28° ♁ 45'04	2°34'36	minimum elong	10836 Mar 28 11:12	13° ♁ 00'05	1°59'47
minimum elong	10835 Apr 14 02:56	28° ♁ 52'21	2°33'51	morning rise	10836 Apr 02 20:47	6° ♁ 51'21	
min. Earth dist.	10835 Apr 13 21:36	29° ♁ 10'49	0.68671 AU	direct	10836 Apr 06 20:09	5° ♁ 21'36	
morning rise	10835 Apr 19 09:04	22° ♁ 36'34		morning max el	10836 Apr 14 14:12	9° ♁ 43'38	20°13'51
direct	10835 Apr 23 21:29	20° ♁ 44'56		desc. node	10836 Apr 24 12:49	22° ♁ 03'51	
morning max el	10835 May 02 17:11	25° ♁ 51'43	21°29'34		10836 Apr 30 01:15	0° ♁	
	10835 May 06 11:23	0° ♁		morning set	10836 May 12 14:05	18° ♁ 55'33	
desc. node	10835 May 08 16:00	2° ♁ 41'34			10836 May 19 16:14	0° ♁	
	10835 May 27 19:37	0° ♁		max. Earth dist.	10836 May 22 09:27	4° ♁ 19'23	1.43980 AU
morning set	10835 Jun 03 11:11	10° ♁ 20'14		superior conj	10836 May 28 07:20	13° ♁ 54'36	-2°08'55
max. Earth dist.	10835 Jun 10 00:05	20° ♁ 53'33	1.42190 AU	minimum elong	10836 May 28 11:28	14° ♁ 11'36	2°09'18
	10835 Jun 15 10:30	0° ♁			10836 Jun 06 20:55	0° ♁	
superior conj	10835 Jun 17 11:49	3° ♁ 31'45	-1°49'28	evening rise	10836 Jun 10 03:05	5° ♁ 37'04	
minimum elong	10835 Jun 17 18:19	3° ♁ 59'55	1°49'25	asc. node	10836 Jun 17 17:32	18° ♁ 38'40	
evening rise	10835 Jun 28 15:35	23° ♁ 26'23			10836 Jun 25 08:37	0° ♁	
asc. node	10835 Jul 01 20:32	29° ♁ 15'28		evening max el	10836 Jun 27 11:12	2° ♁ 20'17	18°05'19
	10835 Jul 02 06:26	0° ♁		retrograde	10836 Jul 03 21:29	5° ♁ 40'52	
evening max el	10835 Jul 14 21:45	19° ♁ 07'17	18°08'06	evening set	10836 Jul 06 14:25	5° ♁ 04'11	
retrograde	10835 Jul 21 18:32	22° ♁ 36'52		inferior conj	10836 Jul 12 22:15	29° ♁ 53'53	2°17'57
evening set	10835 Jul 24 03:37	22° ♁ 12'07		minimum elong	10836 Jul 13 00:59	29° ♁ 46'44	2°16'41
inferior conj	10835 Jul 31 02:44	17° ♁ 20'54	1°18'49		10836 Jul 12 19:55	30° ♁	
minimum elong	10835 Jul 31 05:01	17° ♁ 15'43	1°17'36	min. Earth dist.	10836 Jul 15 20:01	26° ♁ 52'57	0.62269 AU
min. Earth dist.	10835 Aug 03 09:41	14° ♁ 22'05	0.60007 AU	morning rise	10836 Jul 19 09:28	23° ♁ 46'25	
desc. node	10835 Aug 04 15:06	13° ♁ 20'43		desc. node	10836 Jul 21 12:19	22° ♁ 28'54	
morning rise	10835 Aug 07 03:24	11° ♁ 33'28		direct	10836 Jul 26 02:12	21° ♁ 21'37	
direct	10835 Aug 13 15:11	9° ♁ 32'56		morning max el	10836 Aug 09 05:20	29° ♁ 23'49	27°56'14
morning max el	10835 Aug 27 23:00	17° ♁ 25'57	27°46'31		10836 Aug 09 19:38	0° ♁	
	10835 Sep 07 09:44	0° ♁			10836 Aug 31 09:06	0° ♁	
	10835 Sep 25 05:27	0° ♁		morning set	10836 Sep 12 04:10	22° ♁ 03'36	
asc. node	10835 Sep 27 21:03	5° ♁ 20'07		asc. node	10836 Sep 13 17:50	25° ♁ 17'30	
morning set	10835 Sep 29 04:18	8° ♁ 02'02			10836 Sep 15 23:29	0° ♁	
max. Earth dist.	10835 Oct 05 08:50	21° ♁ 25'12	1.31489 AU	max. Earth dist.	10836 Sep 17 14:28	3° ♁ 29'21	1.31983 AU
superior conj	10835 Oct 06 07:56	23° ♁ 33'15	1°15'10	superior conj	10836 Sep 19 17:11	8° ♁ 05'37	0°56'12
minimum elong	10835 Oct 06 05:43	23° ♁ 21'00	1°15'03	minimum elong	10836 Sep 19 15:03	7° ♁ 53'52	0°55'51
	10835 Oct 09 05:33	0° ♁		evening rise	10836 Sep 26 12:16	22° ♁ 58'04	
evening rise	10835 Oct 13 01:08	8° ♁ 20'43			10836 Sep 29 20:29	0° ♁	
	10835 Oct 24 02:55	0° ♁		desc. node	10836 Oct 17 09:50	28° ♁ 51'54	
desc. node	10835 Oct 31 12:35	11° ♁ 37'35			10836 Oct 18 09:16	0° ♁	
evening max el	10835 Nov 09 20:31	22° ♁ 40'53	25°47'46	evening max el	10836 Oct 21 09:02	3° ♁ 08'05	24°16'20
retrograde	10835 Nov 23 17:58	29° ♁ 41'57		retrograde	10836 Nov 04 01:39	9° ♁ 59'30	
evening set	10835 Nov 29 22:49	28° ♁ 12'12		evening set	10836 Nov 09 03:17	9° ♁ 02'54	
min. Earth dist.	10835 Dec 04 09:02	25° ♁ 36'02	0.57913 AU	min. Earth dist.	10836 Nov 14 19:56	6° ♁ 10'37	0.56125 AU
inferior conj	10835 Dec 07 09:42	23° ♁ 28'10	-4°56'05	inferior conj	10836 Nov 17 04:11	4° ♁ 43'45	-5°40'42
minimum elong	10835 Dec 07 17:31	23° ♁ 14'21	4°53'47	minimum elong	10836 Nov 17 07:54	4° ♁ 37'59	5°39'54

morning rise	10836 Nov 25 14:37	0° ♁ 44'04		morning rise	10837 Nov 05 14:55	11° ♁ 26'39	
direct	10836 Nov 28 04:46	0° ♁ 26'28		direct	10837 Nov 08 20:02	11° ♁ 03'05	
morning max el	10836 Dec 08 04:35	5° ♁ 11'33	19°46'16	morning max el	10837 Nov 20 09:31	16° ♁ 30'55	21°09'40
asc. node	10836 Dec 10 18:12	7° ♁ 56'37		asc. node	10837 Nov 27 15:10	25° ♁ 18'49	
	10836 Dec 24 00:16	0° ♁			10837 Nov 30 14:21	0° ♁	
morning set	10836 Dec 25 20:16	3° ♁ 40'55		morning set	10837 Dec 10 04:56	18° ♁ 24'36	
					10837 Dec 15 17:36	0° ♁	
superior conj	10837 Jan 02 16:31	19° ♁ 31'26	1°16'10	superior conj	10837 Dec 17 12:19	3° ♁ 42'05	1°30'48
minimum elong	10837 Jan 02 19:21	19° ♁ 45'28	1°16'25	minimum elong	10837 Dec 17 14:15	3° ♁ 52'05	1°31'14
	10837 Jan 08 02:47	0° ♁			10837 Dec 17 14:15	3° ♁ 52'05	1°31'14
max. Earth dist.	10837 Jan 08 18:53	1° ♁ 15'09	1.37407 AU	max. Earth dist.	10837 Dec 22 04:30	13° ♁ 09'38	1.35385 AU
evening rise	10837 Jan 12 12:15	8° ♁ 02'08		evening rise	10837 Dec 26 05:54	20° ♁ 58'36	
desc. node	10837 Jan 13 08:37	9° ♁ 32'24		desc. node	10837 Dec 31 05:31	0° ♁ 01'36	
	10837 Jan 25 19:33	0° ♁			10837 Dec 31 05:09	0° ♁	
evening max el	10837 Feb 17 01:15	28° ♁ 51'22	25°24'33	evening max el	10838 Jan 19 17:23	0° ♁	
	10837 Feb 18 06:02	0° ♁			10838 Jan 30 14:42	12° ♁ 37'55	26°28'18
retrograde	10837 Mar 01 05:54	5° ♁ 54'09		retrograde	10838 Feb 12 13:36	19° ♁ 56'32	
evening set	10837 Mar 07 02:35	3° ♁ 28'36		evening set	10838 Feb 18 21:36	17° ♁ 24'20	
asc. node	10837 Mar 08 16:33	1° ♁ 58'26		min. Earth dist.	10838 Feb 23 00:25	13° ♁ 10'34	0.66530 AU
	10837 Mar 10 10:04	30° ♁		asc. node	10838 Feb 23 13:48	12° ♁ 30'35	
min. Earth dist.	10837 Mar 11 11:28	28° ♁ 40'33	0.67646 AU	inferior conj	10838 Feb 24 19:42	11° ♁ 00'01	0°24'17
inferior conj	10837 Mar 12 18:54	26° ♁ 59'06	1°17'06	minimum elong	10838 Feb 24 19:03	11° ♁ 01'57	0°24'16
minimum elong	10837 Mar 12 17:12	27° ♁ 04'37	1°16'33	morning rise	10838 Mar 02 17:27	5° ♁ 17'12	
morning rise	10837 Mar 18 08:16	21° ♁ 06'08		direct	10838 Mar 05 18:01	4° ♁ 25'52	
direct	10837 Mar 21 19:33	19° ♁ 56'58		morning max el	10838 Mar 12 06:35	7° ♁ 55'18	18°26'50
morning max el	10837 Mar 28 19:02	23° ♁ 46'26	19°12'19		10838 Mar 27 23:07	0° ♁	
	10837 Apr 03 02:20	0° ♁		desc. node	10838 Mar 29 06:17	2° ♁ 03'09	
greatest brilliancy	10837 Apr 10 18:23	10° ♁ 56'37	-0.7m	morning set	10838 Apr 01 13:46	7° ♁ 18'00	
desc. node	10837 Apr 11 09:34	11° ♁ 53'31			10838 Apr 15 23:52	0° ♁	
morning set	10837 Apr 21 15:38	27° ♁ 34'25		superior conj	10838 Apr 17 10:43	2° ♁ 16'14	-1°54'48
	10837 Apr 23 05:19	0° ♁		minimum elong	10838 Apr 17 01:58	1° ♁ 42'01	1°54'25
max. Earth dist.	10837 May 05 00:28	18° ♁ 22'58	1.45178 AU	max. Earth dist.	10838 Apr 17 19:01	2° ♁ 48'40	1.45671 AU
				evening rise	10838 May 03 06:01	27° ♁ 03'39	
superior conj	10837 May 08 03:43	23° ♁ 19'49	-2°11'59		10838 May 05 02:42	0° ♁	
minimum elong	10837 May 08 01:08	23° ♁ 09'36	2°12'23	greatest brilliancy	10838 May 12 17:17	11° ♁ 57'29	-0.8m
	10837 May 12 08:12	0° ♁		asc. node	10838 May 22 11:40	26° ♁ 03'52	
evening rise	10837 May 22 16:36	16° ♁ 49'59		evening max el	10838 May 25 11:25	29° ♁ 27'19	18°54'29
	10837 May 30 17:11	0° ♁			10838 May 26 00:51	0° ♁	
asc. node	10837 Jun 04 14:34	7° ♁ 37'31		retrograde	10838 Jun 01 05:03	3° ♁ 10'36	
evening max el	10837 Jun 11 00:38	15° ♁ 49'06	18°21'03	evening set	10838 Jun 04 14:08	2° ♁ 04'43	
retrograde	10837 Jun 17 10:15	19° ♁ 14'38			10838 Jun 07 00:49	30° ♁	
evening set	10837 Jun 20 11:05	18° ♁ 24'00		inferior conj	10838 Jun 10 03:01	26° ♁ 21'48	3°13'13
inferior conj	10837 Jun 26 07:36	12° ♁ 56'37	2°54'41	minimum elong	10838 Jun 10 03:57	26° ♁ 18'52	3°12'34
minimum elong	10837 Jun 26 09:39	12° ♁ 50'40	2°53'45	min. Earth dist.	10838 Jun 11 20:16	24° ♁ 11'52	0.66091 AU
min. Earth dist.	10837 Jun 28 15:51	10° ♁ 13'47	0.64349 AU	morning rise	10838 Jun 15 17:05	20° ♁ 00'39	
morning rise	10837 Jul 02 06:58	6° ♁ 38'50		direct	10838 Jun 22 01:38	17° ♁ 16'49	
desc. node	10837 Jul 08 09:29	3° ♁ 59'53		desc. node	10838 Jun 25 06:34	17° ♁ 52'23	
direct	10837 Jul 08 22:13	3° ♁ 58'55		morning max el	10838 Jul 05 01:55	25° ♁ 01'33	26°32'47
morning max el	10837 Jul 22 15:14	11° ♁ 59'39	27°29'27		10838 Jul 09 14:11	0° ♁	
	10837 Aug 05 23:16	0° ♁			10838 Jul 30 10:40	0° ♁	
	10837 Aug 23 21:28	0° ♁		morning set	10838 Aug 09 23:45	18° ♁ 39'49	
morning set	10837 Aug 26 19:44	5° ♁ 39'10		max. Earth dist.	10838 Aug 14 00:38	26° ♁ 27'29	1.34496 AU
max. Earth dist.	10837 Aug 31 12:41	15° ♁ 11'11	1.32982 AU		10838 Aug 15 19:15	0° ♁	
asc. node	10837 Aug 31 14:37	15° ♁ 21'12		asc. node	10838 Aug 18 11:23	5° ♁ 26'46	
				superior conj	10838 Aug 18 21:01	6° ♁ 16'29	0°03'57
superior conj	10837 Sep 03 22:21	22° ♁ 22'16	0°32'17	minimum elong	10838 Aug 18 20:49	6° ♁ 15'27	0°03'37
minimum elong	10837 Sep 03 20:50	22° ♁ 14'14	0°31'52	behind sun begin	10838 Aug 18 15:06	5° ♁ 45'54	
	10837 Sep 07 11:18	0° ♁		behind sun end	10838 Aug 19 02:32	6° ♁ 45'04	
evening rise	10837 Sep 10 23:32	7° ♁ 32'57		evening rise	10838 Aug 26 08:58	21° ♁ 59'29	
	10837 Sep 22 16:51	0° ♁			10838 Aug 30 06:59	0° ♁	
evening max el	10837 Oct 02 20:00	13° ♁ 14'49	22°35'44	evening max el	10838 Sep 14 14:39	23° ♁ 37'02	21°02'15
desc. node	10837 Oct 04 07:06	14° ♁ 36'01		desc. node	10838 Sep 21 04:25	28° ♁ 19'32	
retrograde	10837 Oct 15 21:19	19° ♁ 44'45		retrograde	10838 Sep 26 08:49	29° ♁ 26'59	
evening set	10837 Oct 19 11:22	19° ♁ 16'33		evening set	10838 Sep 28 17:51	29° ♁ 13'40	
min. Earth dist.	10837 Oct 27 03:38	15° ♁ 50'06	0.54935 AU	inferior conj	10838 Oct 07 20:44	25° ♁ 18'34	-4°40'43
inferior conj	10837 Oct 28 04:44	15° ♁ 14'27	-5°39'36				
minimum elong	10837 Oct 28 00:19	15° ♁ 20'44	5°38'49				

































































































































minimum elong	10838 Oct 07 10:57	25° Ω 32'23	4°38'04	inferior conj	10839 Sep 17 18:44	5° Ω 29'06	-2°58'21
min. Earth dist.	10838 Oct 08 11:16	24° Ω 58'01	0.54607 AU	minimum elong	10839 Sep 17 10:51	5° Ω 41'15	2°55'30
morning rise	10838 Oct 16 04:22	21° Ω 25'02		min. Earth dist.	10839 Sep 19 21:07	4° Ω 11'26	0.55234 AU
direct	10838 Oct 20 04:10	20° Ω 50'47		morning rise	10839 Sep 25 22:33	1° Ω 10'02	
morning max el	10838 Nov 02 02:12	27° Ω 02'41	22°51'05	direct	10839 Sep 30 17:54	0° Ω 19'14	
	10838 Nov 04 22:58	0° \mathbb{M}		morning max el	10839 Oct 14 13:19	7° Ω 09'53	24°38'35
asc. node	10838 Nov 14 12:05	13° \mathbb{M} 30'38			10839 Oct 31 02:09	0° \mathbb{M}	
	10838 Nov 23 03:31	0° \mathbb{A}		asc. node	10839 Nov 01 08:57	2° \mathbb{M} 20'12	
morning set	10838 Nov 24 16:05	3° \mathbb{A} 12'05		morning set	10839 Nov 09 03:55	17° \mathbb{M} 58'27	
					10839 Nov 14 16:17	0° \mathbb{A}	
superior conj	10838 Dec 01 15:39	18° \mathbb{A} 12'01	1°38'18	superior conj	10839 Nov 15 23:55	2° \mathbb{A} 53'34	1°39'19
minimum elong	10838 Dec 01 16:25	18° \mathbb{A} 16'05	1°38'50	minimum elong	10839 Nov 15 23:31	2° \mathbb{A} 51'24	1°39'48
max. Earth dist.	10838 Dec 04 21:35	25° \mathbb{A} 03'35	1.33710 AU	max. Earth dist.	10839 Nov 17 22:40	7° \mathbb{A} 08'23	1.32471 AU
	10838 Dec 07 07:19	0° \mathbb{B}		evening rise	10839 Nov 23 07:43	18° \mathbb{A} 28'56	
evening rise	10838 Dec 09 13:31	4° \mathbb{B} 30'27			10839 Nov 29 05:12	0° \mathbb{B}	
desc. node	10838 Dec 18 02:29	20° \mathbb{B} 17'23		desc. node	10839 Dec 04 23:32	10° \mathbb{B} 13'32	
	10838 Dec 23 23:22	0° \approx			10839 Dec 18 07:17	0° \approx	
evening max el	10839 Jan 13 04:08	26° \approx 12'33	27°12'50	evening max el	10839 Dec 26 15:54	9° \approx 22'43	27°31'07
	10839 Jan 17 15:18	0° \mathbb{H}		retrograde	10840 Jan 09 09:50	16° \approx 43'01	
retrograde	10839 Jan 26 15:13	3° \mathbb{H} 35'46		evening set	10840 Jan 16 09:20	14° \approx 15'56	
evening set	10839 Feb 02 08:42	1° \mathbb{H} 02'34		min. Earth dist.	10840 Jan 20 03:26	11° \approx 05'26	0.63246 AU
	10839 Feb 03 14:55	30° \mathbb{R} \approx		inferior conj	10840 Jan 22 21:14	8° \approx 22'02	-1°47'56
min. Earth dist.	10839 Feb 06 06:28	27° \approx 21'54	0.65047 AU	minimum elong	10840 Jan 23 00:45	8° \approx 13'16	1°46'00
inferior conj	10839 Feb 08 13:24	24° \approx 50'02	-0°37'43	asc. node	10840 Jan 28 08:16	3° \approx 47'49	
minimum elong	10839 Feb 08 14:30	24° \approx 46'57	0°36'52	morning rise	10840 Jan 29 18:21	3° \approx 07'36	
asc. node	10839 Feb 10 11:02	22° \approx 47'21		direct	10840 Feb 01 02:47	2° \approx 41'08	
morning rise	10839 Feb 14 21:52	19° \approx 19'51		morning max el	10840 Feb 07 16:16	6° \approx 03'24	17°47'03
direct	10839 Feb 17 13:24	18° \approx 42'48			10840 Feb 23 09:55	0° \mathbb{H}	
morning max el	10839 Feb 23 22:37	22° \approx 03'33	17°58'15	morning set	10840 Feb 23 22:32	0° \mathbb{H} 54'40	
	10839 Mar 02 05:08	0° \mathbb{H}		desc. node	10840 Mar 01 23:43	13° \mathbb{H} 00'48	
morning set	10839 Mar 13 17:09	18° \mathbb{H} 28'47		superior conj	10840 Mar 07 05:13	21° \mathbb{H} 44'42	-0°38'40
desc. node	10839 Mar 16 03:00	22° \mathbb{H} 27'11		minimum elong	10840 Mar 07 01:11	21° \mathbb{H} 28'06	0°37'56
	10839 Mar 20 17:48	0° \mathbb{Y}			10840 Mar 12 07:08	0° \mathbb{Y}	
superior conj	10839 Mar 27 22:06	11° \mathbb{Y} 31'16	-1°20'37	max. Earth dist.	10840 Mar 13 09:30	1° \mathbb{Y} 45'31	1.44450 AU
minimum elong	10839 Mar 27 13:34	10° \mathbb{Y} 57'21	1°19'41	evening rise	10840 Mar 22 11:31	15° \mathbb{Y} 58'40	
max. Earth dist.	10839 Mar 31 14:53	17° \mathbb{Y} 21'40	1.45417 AU		10840 Mar 31 18:01	0° \mathbb{B}	
	10839 Apr 08 17:37	0° \mathbb{B}		evening max el	10840 Apr 20 18:08	26° \mathbb{B} 53'21	20°48'15
evening rise	10839 Apr 13 00:05	6° \mathbb{B} 35'09			10840 Apr 24 08:46	0° \mathbb{I}	
greatest brilliancy	10839 Apr 27 01:48	27° \mathbb{B} 55'15	-0.6m	asc. node	10840 Apr 25 06:02	0° \mathbb{I} 33'48	
	10839 Apr 28 11:58	0° \mathbb{I}		retrograde	10840 Apr 29 01:45	1° \mathbb{I} 44'29	
evening max el	10839 May 08 17:37	13° \mathbb{I} 09'56	19°44'18	evening set	10840 May 03 05:22	0° \mathbb{I} 06'47	
asc. node	10839 May 09 08:49	13° \mathbb{I} 47'14			10840 May 03 08:45	30° \mathbb{R} \mathbb{B}	
retrograde	10839 May 16 02:59	17° \mathbb{I} 22'35		inferior conj	10840 May 08 12:02	23° \mathbb{B} 57'06	3°08'49
evening set	10839 May 19 20:56	16° \mathbb{I} 00'48		minimum elong	10840 May 08 10:51	24° \mathbb{B} 01'11	3°08'14
inferior conj	10839 May 25 05:22	10° \mathbb{I} 03'41	3°17'05	min. Earth dist.	10840 May 09 00:36	23° \mathbb{B} 13'41	0.68254 AU
minimum elong	10839 May 25 05:09	10° \mathbb{I} 04'24	3°16'33	morning rise	10840 May 13 16:08	17° \mathbb{B} 40'14	
min. Earth dist.	10839 May 26 07:50	8° \mathbb{I} 35'17	0.67403 AU	direct	10840 May 19 01:34	15° \mathbb{B} 17'18	
morning rise	10839 May 30 13:01	3° \mathbb{I} 43'29		desc. node	10840 May 29 00:34	20° \mathbb{B} 53'26	
direct	10839 Jun 05 11:05	1° \mathbb{I} 06'08		morning max el	10840 May 29 21:38	21° \mathbb{B} 45'28	23°47'26
desc. node	10839 Jun 12 03:36	3° \mathbb{I} 40'03			10840 Jun 06 01:13	0° \mathbb{I}	
morning max el	10839 Jun 17 11:56	8° \mathbb{I} 19'06	25°15'31		10840 Jun 26 18:16	0° \mathbb{B}	
	10839 Jul 04 11:38	0° \mathbb{B}		morning set	10840 Jul 04 04:12	12° \mathbb{B} 13'33	
morning set	10839 Jul 22 23:48	0° \mathbb{Q}		max. Earth dist.	10840 Jul 08 00:25	18° \mathbb{B} 53'17	1.38695 AU
	10839 Jul 23 12:14	0° \mathbb{Q} 55'42			10840 Jul 14 03:21	0° \mathbb{Q}	
max. Earth dist.	10839 Jul 27 03:00	7° \mathbb{Q} 32'44	1.36456 AU	superior conj	10840 Jul 15 10:48	2° \mathbb{Q} 27'27	-1°01'22
superior conj	10839 Aug 02 10:24	19° \mathbb{Q} 41'27	-0°27'53	minimum elong	10840 Jul 15 14:57	2° \mathbb{Q} 47'02	1°01'11
minimum elong	10839 Aug 02 12:10	19° \mathbb{Q} 50'12	0°27'58	asc. node	10840 Jul 22 05:04	15° \mathbb{Q} 29'19	
asc. node	10839 Aug 05 08:12	25° \mathbb{Q} 30'56		evening rise	10840 Jul 24 13:05	20° \mathbb{Q} 03'25	
	10839 Aug 07 13:14	0° \mathbb{P}			10840 Jul 29 17:41	0° \mathbb{P}	
evening rise	10839 Aug 10 14:24	6° \mathbb{P} 12'18		evening max el	10840 Aug 09 19:36	16° \mathbb{P} 30'33	18°51'49
	10839 Aug 23 23:26	0° \mathbb{A}		retrograde	10840 Aug 18 07:47	20° \mathbb{P} 45'27	
evening max el	10839 Aug 27 22:39	4° \mathbb{A} 40'32	19°46'24	evening set	10840 Aug 20 05:41	20° \mathbb{P} 33'22	
retrograde	10839 Sep 07 00:25	9° \mathbb{A} 40'51		desc. node	10840 Aug 24 23:02	18° \mathbb{P} 34'15	
desc. node	10839 Sep 08 01:43	9° \mathbb{A} 37'46		inferior conj	10840 Aug 28 10:31	16° \mathbb{P} 14'15	-1°05'03
evening set	10839 Sep 08 21:26	9° \mathbb{A} 31'12					


































































































































minimum elong	10840 Aug 28 07:47	16° \mathbb{M} 19'09	1°04'09			10841 Aug 07 03:47	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	10840 Aug 31 11:33	14° \mathbb{M} 04'17	0.56689 AU	inferior conj		10841 Aug 10 00:07	27° \mathbb{Q} 44'25	0°33'19
morning rise	10840 Sep 05 06:36	11° \mathbb{M} 17'58		minimum elong		10841 Aug 10 01:15	27° \mathbb{Q} 42'03	0°32'32
direct	10840 Sep 10 20:43	10° \mathbb{M} 03'09		desc. node		10841 Aug 11 20:20	26° \mathbb{Q} 11'15	
morning max el	10840 Sep 25 02:51	17° \mathbb{M} 25'15	26°14'47	min. Earth dist.		10841 Aug 13 08:39	24° \mathbb{Q} 56'54	0.58712 AU
	10840 Oct 05 12:35	0° \mathbb{L}		morning rise		10841 Aug 17 08:27	22° \mathbb{Q} 12'47	
asc. node	10840 Oct 18 05:48	21° \mathbb{L} 37'57		direct		10841 Aug 23 14:00	20° \mathbb{Q} 28'36	
	10840 Oct 22 08:40	0° \mathbb{M}		morning max el		10841 Sep 06 22:58	28° \mathbb{Q} 13'41	27°23'25
morning set	10840 Oct 23 14:44	2° \mathbb{M} 39'14				10841 Sep 08 16:41	0° \mathbb{M}	
						10841 Sep 29 06:22	0° \mathbb{L}	
superior conj	10840 Oct 30 10:54	17° \mathbb{M} 40'32	1°34'20	asc. node		10841 Oct 05 02:35	11° \mathbb{L} 15'49	
minimum elong	10840 Oct 30 09:33	17° \mathbb{M} 32'57	1°34'39	morning set		10841 Oct 07 22:47	17° \mathbb{L} 08'58	
max. Earth dist.	10840 Oct 31 05:33	19° \mathbb{M} 23'58	1.31700 AU			10841 Oct 13 20:21	0° \mathbb{M}	
	10840 Nov 05 02:05	0° \mathbb{J}						
evening rise	10840 Nov 06 09:35	2° \mathbb{J} 46'46		superior conj		10841 Oct 14 22:40	2° \mathbb{M} 26'23	1°23'44
desc. node	10840 Nov 20 20:39	29° \mathbb{J} 42'08		minimum elong		10841 Oct 14 20:39	2° \mathbb{M} 15'10	1°23'46
	10840 Nov 21 01:06	0° \mathbb{Z}		max. Earth dist.		10841 Oct 14 14:46	1° \mathbb{M} 42'24	1.31418 AU
evening max el	10840 Dec 07 23:29	21° \mathbb{Z} 55'17	27°17'34	evening rise		10841 Oct 21 16:40	17° \mathbb{M} 16'47	
retrograde	10840 Dec 21 20:47	29° \mathbb{Z} 09'25				10841 Oct 27 22:28	0° \mathbb{J}	
evening set	10840 Dec 28 20:20	26° \mathbb{Z} 57'13		desc. node		10841 Nov 07 17:50	18° \mathbb{J} 31'30	
min. Earth dist.	10841 Jan 01 13:58	24° \mathbb{Z} 10'13	0.61208 AU			10841 Nov 16 11:34	0° \mathbb{Z}	
inferior conj	10841 Jan 04 15:59	21° \mathbb{Z} 27'55	-3°03'33	evening max el		10841 Nov 20 00:17	3° \mathbb{Z} 39'01	26°29'46
minimum elong	10841 Jan 04 22:11	21° \mathbb{Z} 14'17	3°00'44	retrograde		10841 Dec 03 22:47	10° \mathbb{Z} 45'45	
morning rise	10841 Jan 12 02:41	16° \mathbb{Z} 32'33		evening set		10841 Dec 10 13:29	8° \mathbb{Z} 58'12	
direct	10841 Jan 14 06:35	16° \mathbb{Z} 13'05		min. Earth dist.		10841 Dec 14 13:58	6° \mathbb{Z} 22'38	0.59081 AU
asc. node	10841 Jan 14 05:26	16° \mathbb{Z} 13'06		inferior conj		10841 Dec 17 18:03	3° \mathbb{Z} 57'11	-4°18'15
morning max el	10841 Jan 21 08:17	19° \mathbb{Z} 46'32	17°54'00	minimum elong		10841 Dec 18 02:03	3° \mathbb{Z} 41'50	4°15'22
	10841 Jan 28 21:19	0° \mathbb{X}				10841 Dec 23 22:07	30° \mathbb{R} \mathbb{J}	
morning set	10841 Feb 05 23:32	14° \mathbb{X} 15'55		morning rise		10841 Dec 25 17:21	29° \mathbb{J} 23'25	
	10841 Feb 14 17:48	0° \mathbb{X}		direct		10841 Dec 27 20:26	29° \mathbb{J} 07'31	
						10841 Dec 31 14:45	0° \mathbb{Z}	
superior conj	10841 Feb 16 13:25	3° \mathbb{X} 09'57	0°02'16	asc. node		10842 Jan 01 02:34	0° \mathbb{Z} 14'45	
minimum elong	10841 Feb 16 13:38	3° \mathbb{X} 10'54	0°02'33	morning max el		10842 Jan 04 18:57	3° \mathbb{Z} 01'48	18°20'28
behind sun begin	10841 Feb 16 05:25	2° \mathbb{X} 35'19		morning set		10842 Jan 20 14:16	28° \mathbb{Z} 14'13	
behind sun end	10841 Feb 16 21:50	3° \mathbb{X} 46'24				10842 Jan 21 12:28	0° \mathbb{X}	
desc. node	10841 Feb 16 20:29	3° \mathbb{X} 40'35						
max. Earth dist.	10841 Feb 24 00:03	15° \mathbb{X} 42'38	1.42874 AU	superior conj		10842 Jan 29 20:10	15° \mathbb{X} 37'51	0°37'10
evening rise	10841 Mar 02 07:39	25° \mathbb{X} 51'36		minimum elong		10842 Jan 29 22:41	15° \mathbb{X} 49'22	0°37'14
	10841 Mar 04 23:16	0° \mathbb{Y}		desc. node		10842 Feb 03 17:14	24° \mathbb{X} 21'47	
	10841 Mar 25 15:22	0° \mathbb{B}		max. Earth dist.		10842 Feb 06 09:24	28° \mathbb{X} 59'17	1.40869 AU
evening max el	10841 Apr 03 13:18	10° \mathbb{B} 37'52	22°02'43			10842 Feb 06 23:38	0° \mathbb{X}	
asc. node	10841 Apr 12 03:17	16° \mathbb{B} 08'34		evening rise		10842 Feb 10 22:24	6° \mathbb{X} 35'42	
retrograde	10841 Apr 12 23:32	16° \mathbb{B} 12'02				10842 Feb 26 02:27	0° \mathbb{Y}	
evening set	10841 Apr 17 13:44	14° \mathbb{B} 18'59		evening max el		10842 Mar 17 04:41	24° \mathbb{Y} 24'35	23°22'48
inferior conj	10841 Apr 22 20:54	7° \mathbb{B} 59'03	2°49'57			10842 Mar 24 16:47	0° \mathbb{B}	
minimum elong	10841 Apr 22 19:03	8° \mathbb{B} 05'34	2°49'15	retrograde		10842 Mar 27 18:46	0° \mathbb{B} 39'39	
min. Earth dist.	10841 Apr 22 20:33	8° \mathbb{B} 00'19	0.68648 AU	asc. node		10842 Mar 30 00:33	0° \mathbb{B} 15'44	
morning rise	10841 Apr 28 00:12	1° \mathbb{B} 47'02				10842 Mar 30 15:38	30° \mathbb{R} \mathbb{Y}	
	10841 May 01 00:48	30° \mathbb{R} \mathbb{Y}		evening set		10842 Apr 01 20:24	28° \mathbb{Y} 32'30	
direct	10841 May 02 20:11	29° \mathbb{Y} 43'22		min. Earth dist.		10842 Apr 06 17:22	22° \mathbb{Y} 48'56	0.68593 AU
	10841 May 04 17:34	0° \mathbb{B}		inferior conj		10842 Apr 07 05:58	22° \mathbb{Y} 05'34	2°21'20
morning max el	10841 May 12 09:16	5° \mathbb{B} 19'58	22°18'08	minimum elong		10842 Apr 07 03:47	22° \mathbb{Y} 13'04	2°20'33
desc. node	10841 May 15 21:29	9° \mathbb{B} 09'47		morning rise		10842 Apr 12 11:07	15° \mathbb{Y} 59'41	
	10841 May 31 07:29	0° \mathbb{I}		direct		10842 Apr 16 17:49	14° \mathbb{Y} 17'27	
morning set	10841 Jun 14 18:58	22° \mathbb{I} 22'22		morning max el		10842 Apr 25 02:01	19° \mathbb{Y} 04'26	20°55'43
	10841 Jun 19 10:02	0° \mathbb{G}		desc. node		10842 May 02 18:18	28° \mathbb{Y} 11'33	
max. Earth dist.	10841 Jun 19 23:04	0° \mathbb{G} 54'44	1.40972 AU			10842 May 04 02:40	0° \mathbb{B}	
						10842 May 24 10:50	0° \mathbb{I}	
superior conj	10841 Jun 27 17:57	14° \mathbb{G} 24'39	-1°33'26	morning set		10842 May 25 08:12	1° \mathbb{I} 23'15	
minimum elong	10841 Jun 28 00:07	14° \mathbb{G} 52'10	1°33'15	max. Earth dist.		10842 Jun 02 03:40	13° \mathbb{I} 49'18	1.43010 AU
	10841 Jul 06 05:59	0° \mathbb{Q}						
evening rise	10841 Jul 08 01:36	3° \mathbb{Q} 24'00		superior conj		10842 Jun 09 03:25	25° \mathbb{I} 23'58	-1°59'18
asc. node	10841 Jul 09 01:58	5° \mathbb{Q} 17'56		minimum elong		10842 Jun 09 09:28	25° \mathbb{I} 49'35	1°59'27
evening max el	10841 Jul 24 02:07	29° \mathbb{Q} 00'48	18°18'18			10842 Jun 11 20:13	0° \mathbb{G}	
	10841 Jul 25 03:47	0° \mathbb{M}		evening rise		10842 Jun 20 23:38	16° \mathbb{G} 03'29	
retrograde	10841 Jul 31 10:10	2° \mathbb{M} 42'41		asc. node		10842 Jun 25 22:56	24° \mathbb{G} 52'14	
evening set	10841 Aug 02 14:35	2° \mathbb{M} 23'45				10842 Jun 28 22:48	0° \mathbb{Q}	

evening max el	10842 Jul 07 14:11	12°Ω01'41	18°04'39	evening max el	10843 Jun 21 04:04	25°Ω23'00	18°09'49
retrograde	10842 Jul 14 05:14	15°Ω25'31		retrograde	10843 Jun 27 12:46	28°Ω43'39	
evening set	10842 Jul 16 17:38	14°Ω56'03		evening set	10843 Jun 30 09:09	28°Ω01'05	
inferior conj	10842 Jul 23 09:49	9°Ω56'51	1°46'52	inferior conj	10843 Jul 06 11:42	22°Ω43'25	2°35'59
minimum elong	10842 Jul 23 12:29	9°Ω50'23	1°45'33	minimum elong	10843 Jul 06 14:14	22°Ω36'27	2°34'51
min. Earth dist.	10842 Jul 26 13:51	6°Ω54'02	0.60977 AU	min. Earth dist.	10843 Jul 09 04:04	19°Ω48'07	0.63193 AU
desc. node	10842 Jul 29 17:35	4°Ω18'27		morning rise	10843 Jul 12 17:38	16°Ω30'52	
morning rise	10842 Jul 30 04:39	3°Ω59'35		desc. node	10843 Jul 16 14:47	14°Ω24'45	
direct	10842 Aug 05 19:33	1°Ω47'26		direct	10843 Jul 19 10:40	13°Ω58'16	
morning max el	10842 Aug 20 01:53	9°Ω46'04	27°55'19	morning max el	10843 Aug 02 09:50	22°Ω00'38	27°48'56
	10842 Sep 04 18:06	0°♐			10843 Aug 09 09:43	0°Ω	
	10842 Sep 21 10:12	0°♑			10843 Aug 28 22:38	0°♐	
asc. node	10842 Sep 21 23:22	1°♑07'48		morning set	10843 Sep 05 22:53	15°♐13'54	
morning set	10842 Sep 22 02:15	1°♑22'46		asc. node	10843 Sep 08 20:07	21°♐08'19	
max. Earth dist.	10842 Sep 27 22:43	13°♑54'39	1.31632 AU	max. Earth dist.	10843 Sep 11 01:33	25°♐49'50	1.32350 AU
					10843 Sep 13 00:08	0°♑	
superior conj	10842 Sep 29 09:24	17°♑05'49	1°07'45	superior conj	10843 Sep 13 17:10	1°♑32'21	0°46'39
minimum elong	10842 Sep 29 07:09	16°♑53'25	1°07'32	minimum elong	10843 Sep 13 15:13	1°♑21'45	0°46'15
	10842 Oct 05 05:52	0°♒		evening rise	10843 Sep 20 14:17	16°♑30'37	
evening rise	10842 Oct 06 02:53	1°♒53'30			10843 Sep 27 04:53	0°♒	
	10842 Oct 21 03:14	0°♑		desc. node	10843 Oct 12 12:18	23°♒05'45	
desc. node	10842 Oct 25 15:03	6°♑26'29		evening max el	10843 Oct 14 04:00	24°♒46'48	23°33'38
evening max el	10842 Nov 01 17:02	14°♑32'07	25°11'14		10843 Oct 21 08:26	0°♑	
retrograde	10842 Nov 15 13:40	21°♑29'51		retrograde	10843 Oct 27 15:32	1°♑30'12	
evening set	10842 Nov 21 08:07	20°♑14'26		evening set	10843 Nov 01 02:29	0°♑47'01	
min. Earth dist.	10842 Nov 26 05:04	17°♑33'29	0.57096 AU		10843 Nov 03 04:32	30°♒♒	
inferior conj	10842 Nov 29 00:24	15°♑41'33	-5°19'18	min. Earth dist.	10843 Nov 07 14:05	27°♒42'18	0.55533 AU
minimum elong	10842 Nov 29 07:08	15°♑30'19	5°17'37	inferior conj	10843 Nov 09 10:32	26°♒36'41	-5°46'58
morning rise	10842 Dec 07 08:26	11°♑29'49		minimum elong	10843 Nov 09 11:00	26°♒35'59	5°46'29
direct	10842 Dec 09 16:31	11°♑13'54		morning rise	10843 Nov 17 21:21	22°♒43'28	
asc. node	10842 Dec 18 23:36	15°♑46'15		direct	10843 Nov 20 17:28	22°♒23'40	
morning max el	10842 Dec 18 20:21	15°♑38'20	19°08'20	morning max el	10843 Dec 01 09:02	27°♒26'17	20°19'06
	10842 Dec 28 23:41	0°♑			10843 Dec 03 19:26	0°♑	
morning set	10843 Jan 04 14:23	12°♑37'13		asc. node	10843 Dec 05 20:35	2°♑32'23	
				morning set	10843 Dec 19 20:41	27°♑15'36	
superior conj	10843 Jan 12 20:49	28°♑55'23	1°04'15		10843 Dec 21 04:41	0°♑	
minimum elong	10843 Jan 12 23:52	29°♑10'07	1°04'22	superior conj	10843 Dec 27 10:44	12°♑49'45	1°23'17
	10843 Jan 13 10:15	0°♒		minimum elong	10843 Dec 27 13:15	13°♑02'25	1°23'37
max. Earth dist.	10843 Jan 19 15:39	11°♒34'48	1.38671 AU	max. Earth dist.	10844 Jan 01 23:00	23°♑40'07	1.36517 AU
desc. node	10843 Jan 21 14:02	15°♒01'27			10844 Jan 05 08:12	0°♒	
evening rise	10843 Jan 23 10:40	18°♒16'13		evening rise	10844 Jan 05 18:34	0°♒47'22	
	10843 Jan 30 11:46	0°♑		desc. node	10844 Jan 08 10:55	5°♒35'46	
	10843 Feb 20 10:27	0°♑			10844 Jan 23 15:42	0°♑	
evening max el	10843 Feb 27 18:24	8°♑14'22	24°42'09	evening max el	10844 Feb 10 07:52	22°♑04'23	25°53'39
retrograde	10843 Mar 11 10:09	15°♑02'22		retrograde	10844 Feb 22 20:46	29°♑14'33	
evening set	10843 Mar 16 23:50	12°♑42'55		evening set	10844 Feb 28 22:27	26°♑45'45	
asc. node	10843 Mar 16 21:50	12°♑47'09		asc. node	10844 Mar 02 19:05	23°♑53'26	
min. Earth dist.	10843 Mar 21 12:50	7°♑34'34	0.68111 AU	min. Earth dist.	10844 Mar 04 04:43	22°♑12'26	0.67219 AU
inferior conj	10843 Mar 22 13:20	6°♑13'07	1°43'16	inferior conj	10844 Mar 05 17:09	20°♑18'00	0°55'51
minimum elong	10843 Mar 22 11:19	6°♑19'53	1°42'35	minimum elong	10844 Mar 05 15:49	20°♑22'13	0°55'30
morning rise	10843 Mar 27 22:57	0°♑14'50		morning rise	10844 Mar 11 09:46	14°♑29'06	
	10843 Mar 28 07:36	30°♒♑		direct	10844 Mar 14 16:26	13°♑27'44	
direct	10843 Mar 31 17:05	28°♑53'54		morning max el	10844 Mar 21 10:07	17°♑06'48	18°51'00
	10843 Apr 04 07:48	0°♑			10844 Mar 31 08:50	0°♑	
morning max el	10843 Apr 08 02:14	3°♑00'36	19°45'42	desc. node	10844 Apr 05 11:47	7°♑45'34	
desc. node	10843 Apr 19 15:04	17°♑46'24		morning set	10844 Apr 12 15:53	18°♑52'53	
greatest brilliancy	10843 Apr 20 22:46	19°♑41'38	-0.6m		10844 Apr 19 19:08	0°♑	
	10843 Apr 27 20:36	0°♑		max. Earth dist.	10844 Apr 27 09:02	11°♑50'25	1.45480 AU
morning set	10843 May 04 07:30	9°♑51'11					
max. Earth dist.	10843 May 15 15:35	27°♑32'48	1.44572 AU	superior conj	10844 Apr 29 01:35	14°♑29'25	-2°07'11
	10843 May 17 04:36	0°♒		minimum elong	10844 Apr 28 19:50	14°♑06'53	2°07'18
superior conj	10843 May 20 12:39	5°♒21'07	-2°12'34		10844 May 08 20:36	0°♒	
minimum elong	10843 May 20 14:21	5°♒27'56	2°13'04	evening rise	10844 May 14 05:33	8°♒38'13	
evening rise	10843 Jun 03 02:15	27°♒50'24			10844 May 27 16:57	0°♑	
	10843 Jun 04 08:51	0°♑		asc. node	10844 May 29 17:02	2°♑52'39	
asc. node	10843 Jun 12 19:57	14°♑06'05					

evening max el	10844 Jun 03 16:44	8° \mathfrak{D} 57'05	18°33'06		10845 Apr 12 12:29	0° \mathfrak{B}	
retrograde	10844 Jun 10 04:36	12° \mathfrak{D} 28'29		evening rise	10845 Apr 24 09:41	18° \mathfrak{B} 30'53	
evening set	10844 Jun 13 08:58	11° \mathfrak{D} 31'18			10845 May 01 19:06	0° \mathfrak{I}	
inferior conj	10844 Jun 19 01:47	5° \mathfrak{D} 56'55	3°04'30	greatest brilliancy	10845 May 05 23:43	6° \mathfrak{I} 25'21	-0.7m
minimum elong	10844 Jun 19 03:23	5° \mathfrak{D} 52'04	3°03'42	asc. node	10845 May 16 14:11	21° \mathfrak{I} 02'12	
min. Earth dist.	10844 Jun 21 03:35	3° \mathfrak{D} 27'00	0.65142 AU	evening max el	10845 May 18 01:41	22° \mathfrak{I} 37'15	19°13'43
	10844 Jun 24 10:18	30° \mathfrak{R} \mathfrak{I}		retrograde	10845 May 25 01:12	26° \mathfrak{I} 32'04	
morning rise	10844 Jun 24 20:53	29° \mathfrak{I} 37'09		evening set	10845 May 28 13:56	25° \mathfrak{I} 19'27	
direct	10844 Jul 01 09:46	26° \mathfrak{I} 54'34		inferior conj	10845 Jun 03 00:32	19° \mathfrak{I} 30'04	3°16'28
desc. node	10844 Jul 02 11:54	26° \mathfrak{I} 58'38		minimum elong	10845 Jun 03 00:58	19° \mathfrak{I} 28'39	3°15'54
	10844 Jul 09 07:37	0° \mathfrak{D}		min. Earth dist.	10845 Jun 04 11:21	17° \mathfrak{I} 37'11	0.66699 AU
morning max el	10844 Jul 14 20:25	4° \mathfrak{D} 49'30	27°08'31	morning rise	10845 Jun 08 11:31	13° \mathfrak{I} 08'43	
	10844 Aug 02 23:41	0° \mathfrak{Q}		direct	10845 Jun 14 15:47	10° \mathfrak{I} 26'44	
morning set	10844 Aug 19 09:58	28° \mathfrak{Q} 35'41		desc. node	10845 Jun 19 08:57	11° \mathfrak{I} 43'36	
	10844 Aug 20 03:19	0° \mathfrak{P}		morning max el	10845 Jun 27 07:13	18° \mathfrak{I} 00'17	26°01'56
max. Earth dist.	10844 Aug 23 19:54	7° \mathfrak{P} 21'52	1.33576 AU		10845 Jul 07 08:55	0° \mathfrak{D}	
asc. node	10844 Aug 25 16:54	11° \mathfrak{P} 13'20			10845 Jul 26 23:28	0° \mathfrak{Q}	
				morning set	10845 Aug 02 08:01	11° \mathfrak{Q} 19'25	
superior conj	10844 Aug 27 19:53	15° \mathfrak{P} 40'16	0°20'46	max. Earth dist.	10845 Aug 06 03:46	18° \mathfrak{Q} 32'28	1.35281 AU
minimum elong	10844 Aug 27 18:51	15° \mathfrak{P} 34'47	0°20'21				
	10844 Sep 03 13:09	0° \mathfrak{L}		superior conj	10845 Aug 11 15:01	29° \mathfrak{Q} 23'18	-0°09'14
evening rise	10844 Sep 04 01:03	1° \mathfrak{L} 02'56		minimum elong	10845 Aug 11 15:35	29° \mathfrak{Q} 26'08	0°09'28
	10844 Sep 20 09:18	0° \mathfrak{M}		behind sun begin	10845 Aug 11 10:38	29° \mathfrak{Q} 01'00	
evening max el	10844 Sep 24 17:01	4° \mathfrak{M} 55'07	21°54'06	behind sun end	10845 Aug 11 20:31	29° \mathfrak{Q} 51'18	
desc. node	10844 Sep 28 09:37	8° \mathfrak{M} 02'17			10845 Aug 11 22:14	0° \mathfrak{P}	
retrograde	10844 Oct 07 06:32	11° \mathfrak{M} 10'12		asc. node	10845 Aug 12 13:44	1° \mathfrak{P} 19'09	
evening set	10844 Oct 10 06:48	10° \mathfrak{M} 49'52		evening rise	10845 Aug 19 09:08	15° \mathfrak{P} 25'00	
inferior conj	10844 Oct 19 05:45	6° \mathfrak{M} 52'04	-5°21'26		10845 Aug 26 19:26	0° \mathfrak{L}	
minimum elong	10844 Oct 18 22:15	7° \mathfrak{M} 02'35	5°19'56	evening max el	10845 Sep 06 17:01	15° \mathfrak{L} 33'29	20°27'28
min. Earth dist.	10844 Oct 18 20:58	7° \mathfrak{M} 04'22	0.54685 AU	desc. node	10845 Sep 15 06:56	20° \mathfrak{L} 47'02	
morning rise	10844 Oct 27 15:01	3° \mathfrak{M} 04'49		retrograde	10845 Sep 17 18:47	21° \mathfrak{L} 03'19	
direct	10844 Oct 31 03:59	2° \mathfrak{M} 37'22		evening set	10845 Sep 19 20:22	20° \mathfrak{L} 52'40	
morning max el	10844 Nov 12 08:11	8° \mathfrak{M} 23'27	21°51'16	inferior conj	10845 Sep 28 22:40	16° \mathfrak{L} 55'56	-4°00'53
asc. node	10844 Nov 21 17:32	20° \mathfrak{M} 17'08		minimum elong	10845 Sep 28 12:55	17° \mathfrak{L} 10'07	3°57'47
	10844 Nov 27 07:08	0° \mathfrak{X}		min. Earth dist.	10845 Sep 30 05:29	16° \mathfrak{L} 11'04	0.54755 AU
morning set	10844 Dec 03 06:39	12° \mathfrak{X} 01'46		morning rise	10845 Oct 07 04:57	12° \mathfrak{L} 53'33	
				direct	10845 Oct 11 12:43	12° \mathfrak{L} 13'20	
superior conj	10844 Dec 10 10:06	27° \mathfrak{X} 09'42	1°34'49	morning max el	10845 Oct 24 21:47	18° \mathfrak{L} 42'55	23°37'05
minimum elong	10844 Dec 10 11:33	27° \mathfrak{X} 17'19	1°35'19		10845 Nov 03 04:46	0° \mathfrak{M}	
	10844 Dec 11 18:42	0° \mathfrak{Z}		asc. node	10845 Nov 08 14:26	8° \mathfrak{M} 46'53	
max. Earth dist.	10844 Dec 14 11:42	5° \mathfrak{Z} 33'08	1.34620 AU	morning set	10845 Nov 17 18:21	26° \mathfrak{M} 50'17	
evening rise	10844 Dec 18 18:33	13° \mathfrak{Z} 59'39			10845 Nov 19 05:44	0° \mathfrak{X}	
desc. node	10844 Dec 25 07:50	25° \mathfrak{Z} 59'56					
	10844 Dec 27 15:41	0° \mathfrak{A}		superior conj	10845 Nov 24 15:54	11° \mathfrak{X} 46'33	1°39'29
	10845 Jan 17 11:45	0° \mathfrak{H}		minimum elong	10845 Nov 24 16:09	11° \mathfrak{X} 47'57	1°40'02
evening max el	10845 Jan 22 21:19	5° \mathfrak{H} 46'50	26°50'02	max. Earth dist.	10845 Nov 27 08:12	17° \mathfrak{X} 31'11	1.33121 AU
retrograde	10845 Feb 05 01:51	13° \mathfrak{H} 08'27		evening rise	10845 Dec 02 07:07	27° \mathfrak{X} 44'36	
evening set	10845 Feb 11 14:23	10° \mathfrak{H} 34'46			10845 Dec 03 10:25	0° \mathfrak{Z}	
min. Earth dist.	10845 Feb 15 14:50	6° \mathfrak{H} 35'40	0.65942 AU	desc. node	10845 Dec 12 04:53	16° \mathfrak{Z} 08'48	
inferior conj	10845 Feb 17 15:13	4° \mathfrak{H} 14'51	-0°00'56		10845 Dec 20 21:19	0° \mathfrak{A}	
minimum elong	10845 Feb 17 15:13	4° \mathfrak{H} 14'49	0°00'36	evening max el	10846 Jan 05 10:04	19° \mathfrak{A} 12'17	27°24'07
transit middle	10845 Feb 17 15:13	4° \mathfrak{H} 14'49	0°00'36	retrograde	10846 Jan 19 00:47	26° \mathfrak{A} 35'51	
transit begin	10845 Feb 17 12:16	4° \mathfrak{H} 23'26		evening set	10846 Jan 25 21:24	24° \mathfrak{A} 03'57	
transit end	10845 Feb 17 18:10	4° \mathfrak{H} 06'13		min. Earth dist.	10846 Jan 29 17:13	20° \mathfrak{A} 36'48	0.64315 AU
asc. node	10845 Feb 17 16:21	4° \mathfrak{H} 11'33		inferior conj	10846 Feb 01 05:05	17° \mathfrak{A} 58'18	-1°06'35
	10845 Feb 21 16:54	30° \mathfrak{R} \mathfrak{A}		minimum elong	10846 Feb 01 07:08	17° \mathfrak{A} 52'49	1°05'17
morning rise	10845 Feb 23 17:16	28° \mathfrak{A} 37'23		asc. node	10846 Feb 04 13:33	14° \mathfrak{A} 40'31	
direct	10845 Feb 26 13:49	27° \mathfrak{A} 52'34		morning rise	10846 Feb 07 18:46	12° \mathfrak{A} 34'43	
	10845 Mar 03 13:42	0° \mathfrak{H}		direct	10846 Feb 10 06:55	12° \mathfrak{A} 02'46	
morning max el	10845 Mar 04 23:59	1° \mathfrak{H} 16'43	18°12'41	morning max el	10846 Feb 16 17:09	15° \mathfrak{A} 23'04	17°51'20
desc. node	10845 Mar 23 08:29	28° \mathfrak{H} 01'53			10846 Feb 27 03:56	0° \mathfrak{H}	
morning set	10845 Mar 24 02:16	29° \mathfrak{H} 13'28		morning set	10846 Mar 05 17:21	10° \mathfrak{H} 58'10	
	10845 Mar 24 13:49	0° \mathfrak{Y}		desc. node	10846 Mar 10 05:13	18° \mathfrak{H} 30'35	
					10846 Mar 17 04:54	0° \mathfrak{Y}	
superior conj	10845 Apr 08 08:04	23° \mathfrak{Y} 27'19	-1°41'55				
minimum elong	10845 Apr 07 22:34	22° \mathfrak{Y} 50'06	1°41'12	superior conj	10846 Mar 19 02:33	3° \mathfrak{Y} 04'13	-1°03'12
max. Earth dist.	10845 Apr 10 04:46	26° \mathfrak{Y} 22'22	1.45651 AU	minimum elong	10846 Mar 18 19:42	2° \mathfrak{Y} 36'42	1°02'16

max. Earth dist.	10846 Mar 23 23:52	10° Υ 51'27	1.45085 AU	desc. node	10847 Feb 25 01:58	9° Υ 07'18	
evening rise	10846 Apr 03 22:56	27° Υ 53'32					
	10846 Apr 05 07:58	0° \mathcal{B}		superior conj	10847 Feb 27 20:13	13° Υ 48'04	-0°20'49
greatest brilliancy	10846 Apr 18 23:29	20° \mathcal{B} 27'40	-0.6m	minimum elong	10847 Feb 27 18:12	13° Υ 39'32	0°20'17
	10846 Apr 25 20:11	0° Π		max. Earth dist.	10847 Mar 06 16:31	25° Υ 04'12	1.43845 AU
evening max el	10846 May 01 05:26	6° Π 19'57	20°09'59		10847 Mar 09 18:31	0° Υ	
asc. node	10846 May 03 11:23	8° Π 23'07		evening rise	10847 Mar 14 12:20	7° Υ 25'44	
retrograde	10846 May 08 23:48	10° Π 48'34			10847 Mar 29 14:24	0° \mathcal{B}	
evening set	10846 May 12 21:39	9° Π 20'10		evening max el	10847 Apr 14 03:37	20° \mathcal{B} 04'17	21°19'01
inferior conj	10846 May 18 05:01	3° Π 17'27	3°14'58	asc. node	10847 Apr 20 08:35	24° \mathcal{B} 41'18	
minimum elong	10846 May 18 04:22	3° Π 19'41	3°14'25	retrograde	10847 Apr 22 22:15	25° \mathcal{B} 13'23	
min. Earth dist.	10846 May 19 01:31	2° Π 07'45	0.67817 AU	evening set	10847 Apr 27 06:13	23° \mathcal{B} 29'16	
	10846 May 20 16:25	30° \mathcal{R} \mathcal{B}		inferior conj	10847 May 02 12:52	17° \mathcal{B} 15'09	3°02'03
morning rise	10846 May 23 10:47	26° \mathcal{B} 58'09		minimum elong	10847 May 02 11:21	17° \mathcal{B} 20'24	3°01'26
direct	10846 May 29 03:37	24° \mathcal{B} 26'00		min. Earth dist.	10847 May 02 19:56	16° \mathcal{B} 50'36	0.68477 AU
desc. node	10846 Jun 06 05:57	28° \mathcal{B} 10'39		morning rise	10847 May 07 16:17	11° \mathcal{B} 00'07	
	10846 Jun 08 07:25	0° Π		direct	10847 May 12 20:08	8° \mathcal{B} 44'39	
morning max el	10846 Jun 09 16:57	1° Π 22'06	24°38'44	morning max el	10847 May 23 02:52	14° \mathcal{B} 51'10	23°09'02
	10846 Jul 01 08:41	0° \mathcal{E}		desc. node	10847 May 24 02:54	15° \mathcal{B} 53'16	
morning set	10846 Jul 15 12:27	23° \mathcal{E} 12'37			10847 Jun 04 10:49	0° Π	
max. Earth dist.	10846 Jul 19 02:48	29° \mathcal{E} 38'35	1.37378 AU		10847 Jun 24 07:27	0° \mathcal{E}	
	10846 Jul 19 07:30	0° \mathcal{O}		morning set	10847 Jun 26 18:09	4° \mathcal{E} 02'19	
				max. Earth dist.	10847 Jun 30 23:42	11° \mathcal{E} 13'05	1.39673 AU
superior conj	10846 Jul 25 23:22	12° \mathcal{O} 32'54	-0°42'02				
minimum elong	10846 Jul 26 02:08	12° \mathcal{O} 46'17	0°41'59	superior conj	10847 Jul 08 17:03	25° \mathcal{E} 00'04	-1°15'22
asc. node	10846 Jul 30 10:35	21° \mathcal{O} 21'28		minimum elong	10847 Jul 08 22:10	25° \mathcal{E} 23'41	1°15'09
evening rise	10846 Aug 03 12:04	29° \mathcal{O} 29'32			10847 Jul 11 09:31	0° \mathcal{O}	
	10846 Aug 03 18:10	0° \mathcal{N}		asc. node	10847 Jul 17 07:29	11° \mathcal{O} 16'37	
evening max el	10846 Aug 20 06:55	26° \mathcal{N} 57'46	19°20'39	evening rise	10847 Jul 18 06:53	13° \mathcal{O} 08'59	
	10846 Aug 24 02:39	0° \mathcal{A}			10847 Jul 27 12:51	0° \mathcal{N}	
retrograde	10846 Aug 29 15:58	1° \mathcal{A} 37'27		evening max el	10847 Aug 03 08:31	9° \mathcal{N} 06'44	18°35'07
evening set	10846 Aug 31 12:06	1° \mathcal{A} 27'27		retrograde	10847 Aug 11 07:07	13° \mathcal{N} 05'23	
desc. node	10846 Sep 02 04:15	1° \mathcal{A} 02'04		evening set	10847 Aug 13 07:38	12° \mathcal{N} 50'46	
	10846 Sep 04 15:47	30° \mathcal{R} \mathcal{N}		desc. node	10847 Aug 20 01:33	9° \mathcal{N} 13'44	
inferior conj	10846 Sep 09 03:18	27° \mathcal{N} 19'22	-2°09'48	inferior conj	10847 Aug 21 04:15	8° \mathcal{N} 23'17	-0°20'37
minimum elong	10846 Sep 08 21:33	27° \mathcal{N} 28'47	2°07'40	minimum elong	10847 Aug 21 03:26	8° \mathcal{N} 24'51	0°20'35
min. Earth dist.	10846 Sep 11 17:24	25° \mathcal{N} 38'01	0.55761 AU	min. Earth dist.	10847 Aug 24 10:18	5° \mathcal{N} 55'04	0.57503 AU
morning rise	10846 Sep 17 04:20	22° \mathcal{N} 44'49		morning rise	10847 Aug 28 19:46	3° \mathcal{N} 11'30	
direct	10846 Sep 22 07:56	21° \mathcal{N} 44'25		direct	10847 Sep 03 17:20	1° \mathcal{N} 44'21	
morning max el	10846 Oct 06 09:09	28° \mathcal{N} 50'16	25°21'49	morning max el	10847 Sep 18 00:58	9° \mathcal{N} 16'44	26°47'57
	10846 Oct 07 13:30	0° \mathcal{A}			10847 Oct 03 19:11	0° \mathcal{A}	
asc. node	10846 Oct 26 11:17	27° \mathcal{A} 49'38		asc. node	10847 Oct 13 08:08	17° \mathcal{A} 16'57	
	10846 Oct 27 14:24	0° \mathcal{M}		morning set	10847 Oct 17 15:46	26° \mathcal{A} 11'28	
morning set	10846 Nov 02 05:56	11° \mathcal{M} 34'54			10847 Oct 19 10:15	0° \mathcal{M}	
superior conj	10846 Nov 09 01:35	26° \mathcal{M} 31'35	1°37'54	superior conj	10847 Oct 24 13:07	11° \mathcal{M} 18'46	1°30'30
minimum elong	10846 Nov 09 00:45	26° \mathcal{M} 26'58	1°38'20	minimum elong	10847 Oct 24 11:26	11° \mathcal{M} 09'23	1°30'42
max. Earth dist.	10846 Nov 10 11:54	29° \mathcal{M} 40'19	1.32084 AU	max. Earth dist.	10847 Oct 24 20:15	11° \mathcal{M} 58'29	1.31529 AU
	10846 Nov 10 15:30	0° \mathcal{J}		evening rise	10847 Oct 31 09:17	26° \mathcal{M} 16'40	
evening rise	10846 Nov 16 04:55	11° \mathcal{J} 52'35			10847 Nov 02 04:00	0° \mathcal{J}	
	10846 Nov 25 15:15	0° \mathcal{Z}		desc. node	10847 Nov 15 23:07	25° \mathcal{J} 07'57	
desc. node	10846 Nov 29 01:58	5° \mathcal{Z} 54'31			10847 Nov 19 04:30	0° \mathcal{Z}	
	10846 Dec 16 16:55	0° \approx		evening max el	10847 Dec 01 01:39	14° \mathcal{Z} 21'54	27°01'23
evening max el	10846 Dec 18 20:24	2° \approx 08'16	27°29'29	retrograde	10847 Dec 14 23:37	21° \mathcal{Z} 32'03	
retrograde	10847 Jan 01 16:32	9° \approx 26'39		evening set	10847 Dec 21 20:35	19° \mathcal{Z} 29'37	
evening set	10847 Jan 08 16:41	7° \approx 04'55		min. Earth dist.	10847 Dec 25 16:09	16° \mathcal{Z} 48'59	0.60307 AU
min. Earth dist.	10847 Jan 12 10:03	4° \approx 05'12	0.62399 AU	inferior conj	10847 Dec 28 19:51	14° \mathcal{Z} 12'11	-3°35'57
inferior conj	10847 Jan 15 07:46	1° \approx 20'29	-2°19'36	minimum elong	10847 Dec 29 03:01	13° \mathcal{Z} 57'16	3°32'57
minimum elong	10847 Jan 15 12:26	1° \approx 09'26	2°17'15	morning rise	10848 Jan 05 12:08	9° \mathcal{Z} 25'21	
	10847 Jan 16 18:21	30° \mathcal{R} \mathcal{Z}		direct	10848 Jan 07 15:11	9° \mathcal{Z} 07'45	
morning rise	10847 Jan 22 10:38	26° \mathcal{Z} 13'38		asc. node	10848 Jan 09 07:53	9° \mathcal{Z} 19'23	
asc. node	10847 Jan 22 10:44	26° \mathcal{Z} 13'33		morning max el	10848 Jan 15 00:35	12° \mathcal{Z} 49'00	18°02'42
direct	10847 Jan 24 16:38	25° \mathcal{Z} 50'40			10848 Jan 26 13:35	0° \approx	
morning max el	10847 Jan 31 10:30	29° \mathcal{Z} 16'57	17°47'39	morning set	10848 Jan 30 15:20	7° \approx 29'09	
	10847 Feb 01 03:17	0° \approx					
morning set	10847 Feb 16 07:53	23° \approx 50'04		superior conj	10848 Feb 09 14:27	25° \approx 41'05	0°17'59
	10847 Feb 19 19:45	0° \mathcal{K}		minimum elong	10848 Feb 09 15:54	25° \approx 47'30	0°18'08

desc. node	10848 Feb 11 22:43	29°  48'05		superior conj	10849 Jan 22 05:29	8°  32'42	0°49'39
	10848 Feb 12 01:28	0° 		minimum elong	10849 Jan 22 08:24	8°  46'21	0°49'42
max. Earth dist.	10848 Feb 17 05:14	8°  46'45	1.42066 AU	desc. node	10849 Jan 28 19:30	20°  29'37	
evening rise	10848 Feb 22 15:38	17°  39'07		max. Earth dist.	10849 Jan 29 13:24	21°  47'58	1.39945 AU
	10848 Mar 01 14:04	0° 		evening rise	10849 Feb 02 15:35	28°  47'54	
	10848 Mar 23 08:28	0° 			10849 Feb 03 08:51	0° 	
evening max el	10848 Mar 26 21:03	3°  50'04	22°36'31		10849 Feb 23 01:46	0° 	
retrograde	10848 Apr 05 18:56	9°  41'34		evening max el	10849 Mar 09 11:26	17°  38'23	23°56'56
asc. node	10848 Apr 06 05:49	9°  40'35		retrograde	10849 Mar 20 12:38	24°  08'31	
evening set	10848 Apr 10 14:00	7°  42'18		asc. node	10849 Mar 24 03:04	23°  07'58	
inferior conj	10848 Apr 15 22:00	1°  19'12	2°38'57	evening set	10849 Mar 25 19:29	21°  05'34	
minimum elong	10848 Apr 15 19:57	1°  26'19	2°38'13	min. Earth dist.	10849 Mar 30 12:47	16°  07'27'16	0.68444 AU
min. Earth dist.	10848 Apr 15 16:22	1°  38'46	0.68682 AU	inferior conj	10849 Mar 31 06:33	15°  06'26'51	2°06'19
	10848 Apr 16 20:55	30°  08'09		minimum elong	10849 Mar 31 04:23	15°  03'41'15	2°05'33
morning rise	10848 Apr 21 01:46	25°  09'51		morning rise	10849 Apr 05 13:19	9°  02'41'16	
direct	10848 Apr 25 16:09	23°  09'15'05		direct	10849 Apr 09 14:32	7°  01'51'24	
morning max el	10848 May 04 16:12	28°  09'29'13	21°41'53	morning max el	10849 Apr 17 12:05	12°  01'19'33	20°24'14
	10848 May 06 03:03	0° 		desc. node	10849 Apr 26 20:33	23°  04'47'54	
desc. node	10848 May 09 23:45	4°  30'33			10849 May 01 05:39	0° 	
	10848 May 28 02:10	0° 		morning set	10849 May 16 02:28	22°  02'20'25	
morning set	10848 Jun 05 21:27	13°  02'39'56			10849 May 21 00:16	0° 	
max. Earth dist.	10848 Jun 12 01:00	23°  02'38'40	1.41889 AU	max. Earth dist.	10849 May 25 09:05	6°  02'56'40	1.43749 AU
	10848 Jun 15 19:58	0° 					
superior conj	10848 Jun 19 15:25	6°  03'33'29	-1°45'30	superior conj	10849 May 31 14:32	17°  02'05'36	-2°06'52
minimum elong	10848 Jun 19 21:56	7°  01'54	1°45'26	minimum elong	10849 May 31 19:20	17°  02'25'27	2°07'13
evening rise	10848 Jun 30 13:44	26°  01'13'13			10849 Jun 08 06:02	0° 	
	10848 Jul 02 15:18	0° 		evening rise	10849 Jun 13 04:06	8°  01'31'44	
asc. node	10848 Jul 03 04:24	0°  59'42		asc. node	10849 Jun 20 01:22	20°  02'26'00	
evening max el	10848 Jul 16 17:48	21°  50'44	18°10'06		10849 Jun 26 03:37	0° 	
retrograde	10848 Jul 23 17:10	25°  02'23'06		evening max el	10849 Jun 30 06:56	5°  00'00'35	18°04'31
evening set	10848 Jul 26 01:01	24°  02'59'58		retrograde	10849 Jul 06 18:12	8°  02'21'42	
inferior conj	10848 Aug 02 02:44	20°  02'11'39	1°07'39	evening set	10849 Jul 09 09:55	7°  02'47'00	
minimum elong	10848 Aug 02 04:46	20°  02'07'05	1°06'32	inferior conj	10849 Jul 15 19:48	2°  02'39'30	2°10'29
min. Earth dist.	10848 Aug 05 10:21	17°  02'15'05	0.59666 AU	minimum elong	10849 Jul 15 22:33	2°  02'32'27	2°09'12
desc. node	10848 Aug 05 22:49	16°  02'49'04			10849 Jul 18 10:09	30°  02'08'00	
morning rise	10848 Aug 09 05:24	14°  02'27'57		min. Earth dist.	10849 Jul 18 19:22	29°  02'37'18	0.61938 AU
direct	10848 Aug 15 15:44	12°  02'31'40		morning rise	10849 Jul 22 08:55	26°  02'34'15	
morning max el	10848 Aug 30 00:03	20°  02'22'48	27°41'51	desc. node	10849 Jul 23 20:02	25°  02'38'47	
	10848 Sep 07 06:45	0° 		direct	10849 Jul 29 01:20	24°  02'12'24	
	10848 Sep 25 16:15	0° 			10849 Aug 09 20:32	0° 	
asc. node	10848 Sep 29 04:56	7°  01'37		morning max el	10849 Aug 12 05:36	2°  02'14'20	27°57'15
morning set	10848 Sep 30 22:07	10°  01'35'06			10849 Sep 01 15:55	0° 	
max. Earth dist.	10848 Oct 07 05:35	24°  01'16'32	1.31452 AU	morning set	10849 Sep 14 22:58	24°  01'39'57	
				asc. node	10849 Sep 16 01:42	26°  01'37'44	
superior conj	10848 Oct 08 00:39	26°  01'02'25	1°17'36		10849 Sep 17 12:29	0° 	
minimum elong	10848 Oct 07 22:29	25°  01'50'22	1°17'31	max. Earth dist.	10849 Sep 20 11:53	6°  01'22'49	1.31870 AU
	10848 Oct 09 19:21	0° 					
evening rise	10848 Oct 14 17:56	10°  01'50'21		superior conj	10849 Sep 22 10:19	10°  01'36'38	0°59'25
	10848 Oct 24 09:56	0° 		minimum elong	10849 Sep 22 08:08	10°  01'24'36	0°59'06
desc. node	10848 Nov 01 20:18	13°  01'36'41		evening rise	10849 Sep 29 04:51	25°  01'27'29	
evening max el	10848 Nov 11 23:06	25°  01'44'11	25°59'36		10849 Oct 01 08:12	0° 	
	10848 Nov 17 08:09	0° 			10849 Oct 18 21:32	0° 	
retrograde	10848 Nov 25 20:49	2°  01'46'49		desc. node	10849 Oct 19 17:32	1°  01'02'31	
evening set	10848 Dec 02 04:43	1°  01'12'09		evening max el	10849 Oct 24 12:30	6°  01'17'15	24°31'06
	10848 Dec 04 09:09	30°  01'08'00		retrograde	10849 Nov 07 06:35	13°  01'10'56	
min. Earth dist.	10848 Dec 06 11:50	28°  01'36'50	0.58209 AU	evening set	10849 Nov 12 12:53	12°  01'09'29	
inferior conj	10848 Dec 09 13:51	26°  01'23'49	-4°46'49	min. Earth dist.	10849 Nov 17 23:42	9°  01'20'47	0.56355 AU
minimum elong	10848 Dec 09 21:51	26°  01'09'23	4°44'18	inferior conj	10849 Nov 20 11:22	7°  01'46'56	-5°36'28
morning rise	10848 Dec 17 17:31	21°  01'59'37		minimum elong	10849 Nov 20 16:03	7°  01'39'32	5°35'27
direct	10848 Dec 19 22:07	21°  01'44'02		morning rise	10849 Nov 28 21:24	3°  01'44'24	
asc. node	10848 Dec 26 04:59	24°  01'01'19		direct	10849 Dec 01 09:39	3°  01'27'26	
morning max el	10848 Dec 28 07:47	25°  01'49'33	18°38'07	morning max el	10849 Dec 11 04:14	8°  01'07'00	19°35'42
	10848 Dec 31 22:16	0° 		asc. node	10849 Dec 13 02:01	10°  01'06'44	
morning set	10849 Jan 13 10:33	21°  01'30'05			10849 Dec 25 10:59	0° 	
	10849 Jan 17 17:40	0° 		morning set	10849 Dec 28 13:39	6°  01'10'42	
				superior conj	10850 Jan 05 12:21	22°  01'30'75'4	1°13'16

minimum elong	10850 Jan 05 15:16	22°  22'14	1°13'28	superior conj	10850 Dec 20 06:44	6°  14'24	1°29'02
	10850 Jan 09 14:12	0° 		minimum elong	10850 Dec 20 08:49	6°  25'11	1°29'27
max. Earth dist.	10850 Jan 11 19:16	4°  07'50	1.37732 AU	max. Earth dist.	10850 Dec 25 04:03	16°  03'47	1.35669 AU
evening rise	10850 Jan 15 12:34	10°  50'59		evening rise	10850 Dec 29 03:48	23°  34'06	
desc. node	10850 Jan 15 16:20	11°  07'40			10851 Jan 01 15:01	0° 	
	10850 Jan 27 02:01	0° 		desc. node	10851 Jan 02 13:15	1°  38'21	
	10850 Feb 18 13:56	0° 			10851 Jan 20 17:48	0° 	
evening max el	10850 Feb 20 00:42	1°  28'08	25°13'50	evening max el	10851 Feb 02 14:12	15°  16'01	26°19'54
retrograde	10850 Mar 04 02:17	8°  27'42		retrograde	10851 Feb 15 10:46	22°  32'47	
evening set	10850 Mar 09 21:06	6°  03'37		evening set	10851 Feb 21 17:08	20°  10'26	
asc. node	10850 Mar 11 00:20	5°  00'38		asc. node	10851 Feb 25 21:36	15°  14'01'7	
min. Earth dist.	10850 Mar 14 07:01	1°  10'14	0.67781 AU	min. Earth dist.	10851 Feb 25 20:52	15°  14'23'2	0.66720 AU
	10850 Mar 15 04:37	30°  18'18		inferior conj	10851 Feb 27 14:19	13°  13'6'01	0°32'55
inferior conj	10850 Mar 15 12:39	29°  13'34'6	1°24'18	minimum elong	10851 Feb 27 13:29	13°  13'38'36	0°32'48
minimum elong	10850 Mar 15 10:51	29°  13'39'39	1°23'43	morning rise	10851 Mar 05 10:40	7°  15'26	
morning rise	10850 Mar 21 00:58	23°  13'39'17		direct	10851 Mar 08 12:46	6°  15'35	
direct	10850 Mar 24 13:57	22°  13'27'12		morning max el	10851 Mar 15 02:24	10°  13'29'09	18°32'31
morning max el	10850 Mar 31 15:45	26°  13'20'53	19°20'25		10851 Mar 29 05:32	0° 	
	10850 Apr 03 22:42	0° 		desc. node	10851 Mar 31 14:01	3°  14'09	
greatest brilliancy	10850 Apr 13 10:40	13°  09'09'24	-0.7m	morning set	10851 Apr 04 20:52	10°  14'26'10	
desc. node	10850 Apr 13 17:17	13°  09'34'01			10851 Apr 17 07:52	0° 	
	10850 Apr 24 12:33	0° 					
morning set	10850 Apr 25 02:41	0°  14'54'26		superior conj	10851 Apr 20 22:04	5°  13'37'01	-1°58'39
max. Earth dist.	10850 May 07 23:12	20°  14'55'09	1.45042 AU	minimum elong	10851 Apr 20 13:54	5°  13'05'05	1°58'25
				max. Earth dist.	10851 Apr 20 17:30	5°  13'19'09	1.45646 AU
					10851 May 06 10:00	0° 	
superior conj	10850 May 11 14:04	26°  13'38'57	-2°12'48	evening rise	10851 May 06 14:05	0° 	
minimum elong	10850 May 11 12:40	26°  13'33'21	2°13'15	greatest brilliancy	10851 May 15 05:40	13°  13'11'57'58	-0.8m
	10850 May 13 16:28	0° 		asc. node	10851 May 24 19:31	28°  13'01'41	
evening rise	10850 May 25 21:10	19°  13'54'04			10851 May 26 09:52	0° 	
	10850 May 31 23:25	0° 		evening max el	10851 May 28 08:01	2°  13'06'01	18°48'27
asc. node	10850 Jun 06 22:24	9°  13'29'32		retrograde	10851 Jun 03 23:51	5°  13'45'42	
evening max el	10850 Jun 13 20:37	18°  13'28'23	18°17'34	evening set	10851 Jun 07 07:44	4°  13'42'03	
retrograde	10850 Jun 20 05:44	21°  13'52'11			10851 Jun 12 02:36	30°  13'18'11	
evening set	10850 Jun 23 05:24	21°  13'50'34'44		inferior conj	10851 Jun 12 21:32	29°  13'11'01'23	3°11'24
inferior conj	10850 Jun 29 03:22	15°  13'38'56	2°50'20	minimum elong	10851 Jun 12 22:38	28°  13'11'57'54	3°10'42
minimum elong	10850 Jun 29 05:34	15°  13'32'39	2°49'20	min. Earth dist.	10851 Jun 14 17:01	26°  13'11'45'59	0.65859 AU
min. Earth dist.	10850 Jul 01 13:49	12°  13'52'15	0.64060 AU	morning rise	10851 Jun 18 12:50	22°  13'11'40'33	
morning rise	10850 Jul 05 04:21	9°  13'52'15		direct	10851 Jun 24 22:40	19°  13'11'56'41	
desc. node	10850 Jul 10 17:11	6°  13'48'05		desc. node	10851 Jun 27 14:18	20°  13'11'20'58	
direct	10850 Jul 11 20:18	6°  13'43'45		morning max el	10851 Jul 08 01:44	27°  13'11'44'17	26°42'46
morning max el	10850 Jul 25 15:05	14°  13'45'32	27°35'28		10851 Jul 10 05:03	0° 	
	10850 Aug 07 00:44	0° 			10851 Jul 31 17:55	0° 	
	10850 Aug 25 07:56	0° 		morning set	10851 Aug 12 21:55	21°  13'11'02'6'39	
morning set	10850 Aug 29 15:56	8°  13'20'04		max. Earth dist.	10851 Aug 17 00:57	29°  13'11'02'28'25	1.34246 AU
asc. node	10850 Sep 02 22:28	17°  13'20'01'00			10851 Aug 17 07:17	0° 	
max. Earth dist.	10850 Sep 03 11:18	18°  13'20'08'01	1.32802 AU	asc. node	10851 Aug 20 19:16	7°  13'20'06'48	
superior conj	10850 Sep 06 16:15	24°  13'20'56'22	0°36'14	superior conj	10851 Aug 21 16:05	8°  13'20'54'40	0°08'30
minimum elong	10850 Sep 06 14:36	24°  13'20'47'32	0°35'48	minimum elong	10851 Aug 21 15:38	8°  13'20'52'21	0°08'09
	10850 Sep 09 00:29	0° 		behind sun begin	10851 Aug 21 10:37	8°  13'20'26'16	
evening rise	10850 Sep 13 16:14	10°  13'20'03'17		behind sun end	10851 Aug 21 20:39	9°  13'20'18'28	
	10850 Sep 23 20:53	0° 		evening rise	10851 Aug 29 02:05	24°  13'20'31'45	
evening max el	10850 Oct 05 23:09	16°  13'20'16'24'47	22°50'37		10851 Aug 31 17:36	0° 	
desc. node	10850 Oct 06 14:49	17°  13'20'10'02'01		evening max el	10851 Sep 17 16:10	26°  13'20'02'42'35	21°15'07
retrograde	10850 Oct 19 03:42	22°  13'20'15'58'42			10851 Sep 21 15:29	0° 	
evening set	10850 Oct 22 23:02	22°  13'20'12'27'06		desc. node	10851 Sep 23 12:08	1°  13'20'10'05'45	
min. Earth dist.	10850 Oct 30 07:44	19°  13'20'10'06'42	0.55063 AU	retrograde	10851 Sep 29 15:34	2°  13'20'08'39'14	
inferior conj	10850 Oct 31 14:06	18°  13'20'08'23'14	-5°43'26	evening set	10851 Oct 02 04:06	2°  13'20'08'24'28	
minimum elong	10850 Oct 31 10:56	18°  13'20'07'27'46	5°42'50		10851 Oct 08 12:10	30°  13'20'05'18'11	
morning rise	10850 Nov 09 00:31	14°  13'20'03'34'25		inferior conj	10851 Oct 11 06:27	28°  13'20'02'29'11	-4°53'03
direct	10850 Nov 12 03:09	14°  13'20'01'11'57		minimum elong	10851 Oct 10 21:00	28°  13'20'00'42'27	4°50'39
morning max el	10850 Nov 23 11:07	19°  13'20'00'33'23	20°55'57	min. Earth dist.	10851 Oct 11 15:02	28°  13'20'00'42'17'08	0.54600 AU
asc. node	10850 Nov 29 23:00	27°  13'20'00'19'44		morning rise	10851 Oct 19 14:31	24°  13'20'00'05'37'59	
	10850 Dec 01 17:37	0° 		direct	10851 Oct 23 11:37	24°  13'20'00'05'34	
morning set	10850 Dec 12 21:47	20°  13'20'00'20'53'00		morning max el	10851 Nov 05 05:13	0°  13'20'00'10'49	22°35'20
	10850 Dec 17 06:33	0° 			10851 Nov 05 00:35	0° 	

asc. node	10851 Nov 16 19:56	15° \mathbb{M} 24'50			10852 Oct 31 08:31	0° \mathbb{M}	
	10851 Nov 24 15:15	0° \mathbb{A}		asc. node	10852 Nov 02 16:49	4° \mathbb{M} 09'37	
morning set	10851 Nov 27 08:43	5° \mathbb{A} 40'24		morning set	10852 Nov 10 20:32	20° \mathbb{M} 27'32	
					10852 Nov 15 05:56	0° \mathbb{A}	
superior conj	10851 Dec 04 09:08	20° \mathbb{A} 41'58	1°37'35	superior conj	10852 Nov 17 16:48	5° \mathbb{A} 22'29	1°39'33
minimum elong	10851 Dec 04 10:05	20° \mathbb{A} 47'00	1°38'07	minimum elong	10852 Nov 17 16:35	5° \mathbb{A} 21'14	1°40'04
max. Earth dist.	10851 Dec 07 20:04	27° \mathbb{A} 57'28	1.33930 AU	max. Earth dist.	10852 Nov 19 20:05	10° \mathbb{A} 00'49	1.32621 AU
	10851 Dec 08 19:54	0° \mathbb{B}		evening rise	10852 Nov 25 02:22	21° \mathbb{A} 03'22	
evening rise	10851 Dec 12 09:34	7° \mathbb{B} 08'16			10852 Nov 29 15:37	0° \mathbb{B}	
desc. node	10851 Dec 20 10:15	21° \mathbb{B} 56'47		desc. node	10852 Dec 06 07:19	11° \mathbb{B} 56'38	
	10851 Dec 25 05:42	0° \mathbb{A}			10852 Dec 18 04:32	0° \mathbb{A}	
evening max el	10852 Jan 16 03:48	28° \mathbb{A} 53'44	27°07'47	evening max el	10852 Dec 28 15:51	12° \mathbb{A} 08'07	27°30'20
	10852 Jan 17 08:13	0° \mathbb{H}		retrograde	10853 Jan 11 08:59	19° \mathbb{A} 29'27	
retrograde	10852 Jan 29 13:18	6° \mathbb{H} 16'33		evening set	10853 Jan 18 07:59	17° \mathbb{A} 00'44	
evening set	10852 Feb 05 05:36	3° \mathbb{H} 43'06		min. Earth dist.	10853 Jan 22 02:24	13° \mathbb{A} 46'15	0.63529 AU
min. Earth dist.	10852 Feb 09 04:02	29° \mathbb{A} 57'45	0.65288 AU	inferior conj	10853 Jan 24 18:46	11° \mathbb{A} 03'42	-1°36'49
	10852 Feb 09 03:13	30° \mathbb{R}		minimum elong	10853 Jan 24 21:54	10° \mathbb{A} 55'47	1°35'03
inferior conj	10852 Feb 11 09:17	27° \mathbb{A} 28'31	-0°27'41	asc. node	10853 Jan 29 16:04	6° \mathbb{A} 46'30	
minimum elong	10852 Feb 11 10:05	27° \mathbb{A} 26'16	0°27'00	morning rise	10853 Jan 31 13:55	5° \mathbb{A} 46'54	
asc. node	10852 Feb 12 18:51	25° \mathbb{A} 55'58		direct	10853 Feb 02 23:16	5° \mathbb{A} 19'07	
morning rise	10852 Feb 17 16:01	21° \mathbb{A} 56'21		morning max el	10853 Feb 09 11:38	8° \mathbb{A} 40'28	17°47'39
direct	10852 Feb 20 08:50	21° \mathbb{A} 17'20			10853 Feb 23 18:29	0° \mathbb{H}	
morning max el	10852 Feb 26 18:00	24° \mathbb{A} 38'32	18°01'28	morning set	10853 Feb 25 21:53	3° \mathbb{H} 40'57	
	10852 Mar 02 05:27	0° \mathbb{H}		desc. node	10853 Mar 04 07:29	14° \mathbb{H} 36'21	
morning set	10852 Mar 15 20:00	21° \mathbb{H} 25'00					
desc. node	10852 Mar 17 10:45	24° \mathbb{H} 03'43		superior conj	10853 Mar 10 11:19	24° \mathbb{H} 50'19	-0°45'10
	10852 Mar 21 02:11	0° \mathbb{Y}		minimum elong	10853 Mar 10 06:32	24° \mathbb{H} 30'45	0°44'21
superior conj	10852 Mar 30 07:41	14° \mathbb{Y} 46'39	-1°26'33		10853 Mar 13 15:39	0° \mathbb{Y}	
minimum elong	10852 Mar 29 22:43	14° \mathbb{Y} 11'10	1°25'38	max. Earth dist.	10853 Mar 16 08:40	4° \mathbb{Y} 20'10	1.44635 AU
max. Earth dist.	10852 Apr 02 13:45	19° \mathbb{Y} 53'55	1.45504 AU	evening rise	10853 Mar 25 21:54	19° \mathbb{Y} 15'03	
	10852 Apr 09 01:11	0° \mathbb{B}			10853 Apr 01 23:50	0° \mathbb{B}	
evening rise	10852 Apr 15 10:28	9° \mathbb{B} 52'45		evening max el	10853 Apr 23 16:21	29° \mathbb{B} 31'40	20°37'53
	10852 Apr 28 15:24	0° \mathbb{I}			10853 Apr 24 03:44	0° \mathbb{I}	
greatest brilliancy	10852 Apr 28 21:54	0° \mathbb{I} 24'03	-0.7m	asc. node	10853 Apr 27 13:53	2° \mathbb{I} 48'50	
evening max el	10852 May 10 15:01	15° \mathbb{I} 48'24	19°35'52	retrograde	10853 May 01 20:22	4° \mathbb{I} 16'54	
asc. node	10852 May 10 16:41	15° \mathbb{I} 52'35		evening set	10853 May 05 22:28	2° \mathbb{I} 41'33	
retrograde	10852 May 17 21:33	19° \mathbb{I} 55'59			10853 May 08 14:30	30° \mathbb{R}	
evening set	10852 May 21 14:09	18° \mathbb{I} 36'30		inferior conj	10853 May 11 05:14	26° \mathbb{B} 33'29	3°10'46
inferior conj	10852 May 26 23:03	12° \mathbb{I} 41'17	3°17'19	minimum elong	10853 May 11 04:11	26° \mathbb{B} 37'07	3°10'12
minimum elong	10852 May 26 23:00	12° \mathbb{I} 41'26	3°16'46	min. Earth dist.	10853 May 11 19:49	25° \mathbb{B} 43'19	0.68159 AU
min. Earth dist.	10852 May 28 03:38	11° \mathbb{I} 06'31	0.67239 AU	morning rise	10853 May 16 09:41	20° \mathbb{B} 15'53	
morning rise	10852 Jun 01 07:30	6° \mathbb{I} 20'45		direct	10853 May 21 21:01	17° \mathbb{B} 50'29	
direct	10852 Jun 07 07:15	3° \mathbb{I} 42'04		desc. node	10853 May 31 08:17	22° \mathbb{B} 55'20	
desc. node	10852 Jun 13 11:20	5° \mathbb{I} 53'15		morning max el	10853 Jun 01 21:45	24° \mathbb{B} 26'17	24°00'48
morning max el	10852 Jun 19 12:00	11° \mathbb{I} 00'33	25°27'55		10853 Jun 06 21:24	0° \mathbb{I}	
	10852 Jul 04 15:00	0° \mathbb{B}			10853 Jun 28 01:27	0° \mathbb{B}	
	10852 Jul 23 09:34	0° \mathbb{Q}		morning set	10853 Jul 07 08:24	15° \mathbb{B} 17'43	
morning set	10852 Jul 25 13:01	3° \mathbb{Q} 49'57		max. Earth dist.	10853 Jul 11 02:24	21° \mathbb{B} 50'51	1.38350 AU
max. Earth dist.	10852 Jul 29 04:45	10° \mathbb{Q} 34'46	1.36145 AU		10853 Jul 15 14:06	0° \mathbb{Q}	
superior conj	10852 Aug 04 07:02	22° \mathbb{Q} 24'28	-0°22'54	superior conj	10853 Jul 18 09:39	5° \mathbb{Q} 17'02	-0°56'18
minimum elong	10852 Aug 04 08:28	22° \mathbb{Q} 31'36	0°23'01	minimum elong	10853 Jul 18 13:26	5° \mathbb{Q} 35'03	0°56'09
asc. node	10852 Aug 06 16:06	27° \mathbb{Q} 11'34		asc. node	10853 Jul 24 12:59	17° \mathbb{Q} 11'24	
	10852 Aug 08 01:12	0° \mathbb{P}		evening rise	10853 Jul 27 08:12	22° \mathbb{Q} 42'24	
evening rise	10852 Aug 12 08:18	8° \mathbb{P} 47'14			10853 Jul 31 02:21	0° \mathbb{P}	
	10852 Aug 23 20:41	0° \mathbb{U}		evening max el	10853 Aug 12 17:15	19° \mathbb{P} 22'57	18°58'37
evening max el	10852 Aug 29 22:02	7° \mathbb{U} 39'09	19°56'18	retrograde	10853 Aug 21 10:40	23° \mathbb{P} 44'05	
retrograde	10852 Sep 09 05:58	12° \mathbb{U} 47'09		evening set	10853 Aug 23 07:49	23° \mathbb{P} 32'44	
desc. node	10852 Sep 09 09:27	12° \mathbb{U} 47'06		desc. node	10853 Aug 27 06:44	22° \mathbb{P} 03'22	
evening set	10852 Sep 11 03:43	12° \mathbb{U} 37'26		inferior conj	10853 Aug 31 15:29	19° \mathbb{P} 16'38	-1°21'42
inferior conj	10852 Sep 20 02:42	8° \mathbb{U} 36'56	-3°15'19	minimum elong	10853 Aug 31 11:58	19° \mathbb{P} 22'46	1°20'29
minimum elong	10852 Sep 19 18:11	8° \mathbb{U} 49'52	3°12'19	min. Earth dist.	10853 Sep 03 14:09	17° \mathbb{P} 13'39	0.56425 AU
min. Earth dist.	10852 Sep 22 00:19	7° \mathbb{U} 27'47	0.55083 AU	morning rise	10853 Sep 08 12:57	14° \mathbb{P} 25'54	
morning rise	10852 Sep 28 07:16	4° \mathbb{U} 22'45		direct	10853 Sep 14 00:21	13° \mathbb{P} 15'03	
direct	10852 Oct 02 23:37	3° \mathbb{U} 34'59		morning max el	10853 Sep 28 05:38	20° \mathbb{P} 33'25	26°01'51
morning max el	10852 Oct 16 16:43	10° \mathbb{U} 20'12	24°22'57		10853 Oct 06 09:12	0° \mathbb{U}	

asc. node	10853 Oct 20 13:39	23° Ω 24'05		direct	10854 Aug 26 15:46	23° Ω 33'17	
	10853 Oct 23 20:38	0° \mathbb{M}			10854 Sep 08 16:28	0° \mathbb{M}	
morning set	10853 Oct 26 07:36	5° \mathbb{M} 09'52		morning max el	10854 Sep 10 00:33	1° \mathbb{M} 15'35	27°15'21
					10854 Sep 30 14:19	0° Ω	
superior conj	10853 Nov 02 03:31	20° \mathbb{M} 09'32	1°35'28	asc. node	10854 Oct 07 10:28	12° Ω 59'23	
minimum elong	10853 Nov 02 02:17	20° \mathbb{M} 02'42	1°35'48	morning set	10854 Oct 10 16:09	19° Ω 41'28	
max. Earth dist.	10853 Nov 03 02:11	22° \mathbb{M} 15'04	1.31783 AU		10854 Oct 15 10:01	0° \mathbb{M}	
	10853 Nov 06 15:12	0° \mathbb{A}					
evening rise	10853 Nov 09 03:16	5° \mathbb{A} 19'06		superior conj	10854 Oct 17 15:16	4° \mathbb{M} 55'57	1°25'42
	10853 Nov 22 06:26	0° \mathbb{B}		minimum elong	10854 Oct 17 13:19	4° \mathbb{M} 45'09	1°25'46
desc. node	10853 Nov 23 04:25	1° \mathbb{B} 30'13		max. Earth dist.	10854 Oct 17 11:13	4° \mathbb{M} 33'24	1.31430 AU
evening max el	10853 Dec 11 00:07	24° \mathbb{B} 46'44	27°21'43	evening rise	10854 Oct 24 09:40	19° \mathbb{M} 47'45	
	10853 Dec 17 20:51	0° \approx			10854 Oct 29 08:49	0° \mathbb{A}	
retrograde	10853 Dec 24 21:15	2° \approx 02'20		desc. node	10854 Nov 10 01:33	20° \mathbb{A} 26'14	
evening set	10853 Dec 31 21:12	29° \mathbb{B} 47'16			10854 Nov 17 00:12	0° \mathbb{B}	
	10853 Dec 31 12:59	30° \mathbb{R} \mathbb{B}		evening max el	10854 Nov 23 02:07	6° \mathbb{B} 38'25	26°39'00
min. Earth dist.	10854 Jan 04 14:31	26° \mathbb{B} 57'19	0.61520 AU	retrograde	10854 Dec 07 00:41	13° \mathbb{B} 46'05	
inferior conj	10854 Jan 07 15:38	24° \mathbb{B} 13'47	-2°52'00	evening set	10854 Dec 13 17:15	11° \mathbb{B} 54'29	
minimum elong	10854 Jan 07 21:27	24° \mathbb{B} 00'45	2°49'16	min. Earth dist.	10854 Dec 17 16:08	9° \mathbb{B} 17'58	0.59397 AU
morning rise	10854 Jan 15 00:20	19° \mathbb{B} 15'29		inferior conj	10854 Dec 20 20:22	6° \mathbb{B} 49'05	-4°07'30
asc. node	10854 Jan 16 13:13	18° \mathbb{B} 57'02		minimum elong	10854 Dec 21 04:14	6° \mathbb{B} 33'39	4°04'32
direct	10854 Jan 17 04:38	18° \mathbb{B} 55'15		morning rise	10854 Dec 28 17:57	2° \mathbb{B} 11'46	
morning max el	10854 Jan 24 04:05	22° \mathbb{B} 26'34	17°51'46	direct	10854 Dec 30 20:48	1° \mathbb{B} 55'34	
	10854 Jan 30 00:56	0° \approx		asc. node	10855 Jan 03 10:19	2° \mathbb{B} 43'50	
morning set	10854 Feb 08 20:17	16° \approx 54'39		morning max el	10855 Jan 07 15:43	5° \mathbb{B} 46'20	18°15'11
	10854 Feb 16 03:49	0° \mathbb{X}			10855 Jan 22 23:03	0° \approx	
desc. node	10854 Feb 19 04:15	5° \mathbb{X} 15'14		morning set	10855 Jan 23 09:14	0° \approx 48'10	
superior conj	10854 Feb 19 15:44	6° \mathbb{X} 04'39	-0°03'40	superior conj	10855 Feb 01 19:20	18° \approx 23'36	0°32'23
minimum elong	10854 Feb 19 15:25	6° \mathbb{X} 03'18	0°03'20	minimum elong	10855 Feb 01 21:38	18° \approx 34'01	0°32'27
behind sun begin	10854 Feb 19 07:07	5° \mathbb{X} 27'34		desc. node	10855 Feb 06 01:01	25° \approx 56'31	
behind sun end	10854 Feb 19 23:44	6° \mathbb{X} 38'57			10855 Feb 08 09:17	0° \mathbb{X}	
max. Earth dist.	10854 Feb 26 23:30	18° \mathbb{X} 20'30	1.43139 AU	max. Earth dist.	10855 Feb 09 09:32	1° \mathbb{X} 43'23	1.41186 AU
evening rise	10854 Mar 05 15:48	29° \mathbb{X} 01'09		evening rise	10855 Feb 14 03:25	9° \mathbb{X} 36'55	
	10854 Mar 06 06:51	0° \mathbb{Y}			10855 Feb 27 07:29	0° \mathbb{Y}	
	10854 Mar 26 16:00	0° \mathbb{B}		evening max el	10855 Mar 20 04:03	27° \mathbb{Y} 02'24	23°10'51
evening max el	10854 Apr 06 12:11	13° \mathbb{B} 15'45	21°51'09		10855 Mar 23 10:31	0° \mathbb{B}	
asc. node	10854 Apr 14 11:06	18° \mathbb{B} 35'20		retrograde	10855 Mar 30 14:01	3° \mathbb{B} 11'34	
retrograde	10854 Apr 15 18:23	18° \mathbb{B} 43'37		asc. node	10855 Apr 01 08:19	2° \mathbb{B} 56'42	
evening set	10854 Apr 20 06:54	16° \mathbb{B} 52'55		evening set	10855 Apr 04 13:54	1° \mathbb{B} 06'29	
inferior conj	10854 Apr 25 13:52	10° \mathbb{B} 34'21	2°53'26		10855 Apr 05 18:01	30° \mathbb{R} \mathbb{Y}	
minimum elong	10854 Apr 25 12:05	10° \mathbb{B} 40'34	2°52'46	inferior conj	10855 Apr 09 23:00	24° \mathbb{Y} 40'30	2°26'17
min. Earth dist.	10854 Apr 25 15:25	10° \mathbb{B} 28'56	0.68617 AU	minimum elong	10855 Apr 09 20:51	24° \mathbb{Y} 47'57	2°25'32
morning rise	10854 Apr 30 17:06	4° \mathbb{B} 21'24		min. Earth dist.	10855 Apr 09 12:14	25° \mathbb{Y} 17'42	0.68626 AU
direct	10854 May 05 15:07	2° \mathbb{B} 14'34		morning rise	10855 Apr 15 03:42	18° \mathbb{Y} 33'36	
morning max el	10854 May 15 08:48	7° \mathbb{B} 59'10	22°31'07	direct	10855 Apr 19 12:24	16° \mathbb{Y} 48'00	
desc. node	10854 May 18 05:11	11° \mathbb{B} 03'16		morning max el	10855 Apr 28 00:31	21° \mathbb{Y} 41'49	21°07'22
	10854 Jun 01 12:00	0° \mathbb{I}		desc. node	10855 May 05 02:02	29° \mathbb{Y} 59'09	
morning set	10854 Jun 18 03:08	25° \mathbb{I} 37'25			10855 May 05 02:17	0° \mathbb{B}	
	10854 Jun 20 18:50	0° \mathbb{E}			10855 May 25 17:59	0° \mathbb{I}	
max. Earth dist.	10854 Jun 23 00:15	3° \mathbb{E} 44'13	1.40640 AU	morning set	10855 May 28 19:48	4° \mathbb{I} 47'22	
				max. Earth dist.	10855 Jun 05 03:58	16° \mathbb{I} 31'38	1.42734 AU
superior conj	10854 Jun 30 19:39	17° \mathbb{E} 22'19	-1°28'50	superior conj	10855 Jun 12 08:38	28° \mathbb{I} 31'11	-1°56'02
minimum elong	10854 Jul 01 01:36	17° \mathbb{E} 49'05	1°28'38	minimum elong	10855 Jun 12 14:56	28° \mathbb{I} 58'03	1°56'07
	10854 Jul 07 16:14	0° Ω			10855 Jun 13 05:26	0° \mathbb{E}	
evening rise	10854 Jul 10 22:28	6° Ω 08'08		evening rise	10855 Jun 23 22:58	18° \mathbb{E} 54'38	
asc. node	10854 Jul 11 09:52	7° Ω 01'50		asc. node	10855 Jun 28 06:48	26° \mathbb{E} 38'42	
	10854 Jul 25 06:47	0° \mathbb{M}			10855 Jun 30 04:49	0° Ω	
evening max el	10854 Jul 26 22:37	1° \mathbb{M} 48'01	18°22'01	evening max el	10855 Jul 10 10:07	14° Ω 45'10	18°05'25
retrograde	10854 Aug 03 10:05	5° \mathbb{M} 33'43		retrograde	10855 Jul 17 02:54	18° Ω 10'33	
evening set	10854 Aug 05 13:25	5° \mathbb{M} 16'02		evening set	10855 Jul 19 14:09	17° Ω 42'47	
inferior conj	10854 Aug 13 01:48	0° \mathbb{M} 39'56	0°19'54	inferior conj	10855 Jul 26 08:43	12° Ω 46'22	1°37'18
minimum elong	10854 Aug 13 02:30	0° \mathbb{M} 38'30	0°19'18	minimum elong	10855 Jul 26 11:16	12° Ω 40'17	1°36'01
	10854 Aug 13 21:12	30° \mathbb{R} Ω		min. Earth dist.	10855 Jul 29 13:56	9° Ω 44'30	0.60642 AU
desc. node	10854 Aug 14 04:00	29° Ω 45'59		desc. node	10855 Aug 01 01:14	7° Ω 41'38	
min. Earth dist.	10854 Aug 16 10:11	27° Ω 56'37	0.58387 AU	morning rise	10855 Aug 02 05:36	6° Ω 52'23	
morning rise	10854 Aug 20 12:03	25° Ω 13'10					

direct	10855 Aug 08 19:37	4°♎44'08		morning max el	10856 Aug 04 09:53	24°♎49'42	27°52'12
morning max el	10855 Aug 23 02:27	12°♎40'49	27°53'00		10856 Aug 09 02:47	0°♎	
	10855 Sep 05 20:23	0°♎			10856 Aug 29 07:12	0°♎	
	10855 Sep 22 22:04	0°♎		morning set	10856 Sep 07 18:15	17°♎52'34	
asc. node	10855 Sep 24 07:16	2°♎49'31		asc. node	10856 Sep 10 04:03	22°♎49'02	
morning set	10855 Sep 24 20:25	3°♎57'37		max. Earth dist.	10856 Sep 12 23:34	28°♎45'51	1.32212 AU
max. Earth dist.	10855 Sep 30 19:36	16°♎47'02	1.31573 AU		10856 Sep 13 13:22	0°♎	
superior conj	10855 Oct 02 02:15	19°♎36'24	1°10'32	superior conj	10856 Sep 15 10:37	4°♎05'08	0°50'11
minimum elong	10855 Oct 02 00:01	19°♎24'00	1°10'20	minimum elong	10856 Sep 15 08:35	3°♎54'03	0°49'47
	10855 Oct 06 19:00	0°♎		evening rise	10856 Sep 22 06:56	19°♎01'08	
evening rise	10855 Oct 08 19:33	4°♎23'39			10856 Sep 27 14:23	0°♎	
	10855 Oct 22 05:44	0°♎		desc. node	10856 Oct 13 20:00	25°♎22'39	
desc. node	10855 Oct 27 22:45	8°♎30'18		evening max el	10856 Oct 16 07:33	27°♎57'32	23°48'42
evening max el	10855 Nov 04 20:08	17°♎38'49	25°24'30		10856 Oct 18 14:29	0°♎	
retrograde	10855 Nov 18 17:07	24°♎37'36		retrograde	10856 Oct 29 21:02	4°♎43'58	
evening set	10855 Nov 24 15:28	23°♎17'12		evening set	10856 Nov 03 13:20	3°♎56'13	
min. Earth dist.	10855 Nov 29 08:21	20°♎38'16	0.57374 AU	min. Earth dist.	10856 Nov 09 17:54	0°♎56'17	0.55725 AU
inferior conj	10855 Dec 02 05:47	18°♎40'34	-5°11'42		10856 Nov 11 07:34	30°♎	
minimum elong	10855 Dec 02 13:01	18°♎28'16	5°09'47	inferior conj	10856 Nov 11 18:49	29°♎43'03	-5°45'51
morning rise	10855 Dec 10 12:52	14°♎25'33		minimum elong	10856 Nov 11 20:32	29°♎40'30	5°45'18
direct	10855 Dec 12 19:52	14°♎09'48		morning rise	10856 Nov 20 05:38	25°♎47'53	
asc. node	10855 Dec 21 07:24	18°♎02'31		direct	10856 Nov 22 23:35	25°♎28'55	
morning max el	10855 Dec 21 18:42	18°♎29'05	18°59'46		10856 Dec 02 22:41	0°♎	
	10855 Dec 30 05:58	0°♎		morning max el	10856 Dec 03 09:31	0°♎25'11	20°07'09
morning set	10856 Jan 07 08:12	15°♎08'17		asc. node	10856 Dec 07 04:26	4°♎38'46	
	10856 Jan 14 21:54	0°♎		morning set	10856 Dec 21 13:49	29°♎45'22	
					10856 Dec 21 16:41	0°♎	
superior conj	10856 Jan 15 17:36	1°♎34'32	1°00'40	superior conj	10856 Dec 29 05:54	15°♎24'47	1°20'52
minimum elong	10856 Jan 15 20:40	1°♎49'09	1°00'46	minimum elong	10856 Dec 29 08:33	15°♎38'00	1°21'11
max. Earth dist.	10856 Jan 22 16:17	14°♎25'38	1.39001 AU	max. Earth dist.	10857 Jan 03 23:18	26°♎35'11	1.36826 AU
desc. node	10856 Jan 23 21:48	16°♎36'37			10857 Jan 05 19:04	0°♎	
evening rise	10856 Jan 26 12:31	21°♎09'11		evening rise	10857 Jan 07 17:46	3°♎33'40	
	10856 Jan 31 19:47	0°♎		desc. node	10857 Jan 09 18:41	7°♎12'09	
	10856 Feb 21 08:26	0°♎			10857 Jan 23 20:10	0°♎	
evening max el	10856 Mar 01 17:55	10°♎51'50	24°30'42	evening max el	10857 Feb 12 07:19	24°♎41'54	25°43'42
retrograde	10856 Mar 13 05:58	17°♎35'18			10857 Feb 18 22:20	0°♎	
asc. node	10856 Mar 18 05:35	15°♎42'31		retrograde	10857 Feb 24 17:21	1°♎49'35	
evening set	10856 Mar 18 17:54	15°♎17'28			10857 Mar 01 21:44	30°♎	
min. Earth dist.	10856 Mar 23 07:59	10°♎04'01	0.68208 AU	evening set	10857 Mar 02 17:22	29°♎21'45	
inferior conj	10856 Mar 24 06:45	8°♎47'55	1°49'39	asc. node	10857 Mar 05 02:51	26°♎59'57	
minimum elong	10856 Mar 24 04:39	8°♎54'54	1°48'57	min. Earth dist.	10857 Mar 07 00:31	24°♎43'22	0.67381 AU
morning rise	10856 Mar 29 15:32	2°♎48'31		inferior conj	10857 Mar 08 11:13	22°♎53'19	1°03'41
direct	10856 Apr 02 11:31	1°♎24'28		minimum elong	10857 Mar 08 09:44	22°♎58'01	1°03'15
morning max el	10856 Apr 09 23:33	5°♎36'11	19°55'16	morning rise	10857 Mar 14 02:39	17°♎03'00	
desc. node	10856 Apr 20 22:48	19°♎29'29		direct	10857 Mar 17 10:55	15°♎58'57	
	10856 Apr 28 02:24	0°♎		morning max el	10857 Mar 24 06:26	19°♎41'17	18°58'05
morning set	10856 May 06 19:52	13°♎16'18			10857 Apr 01 11:42	0°♎	
max. Earth dist.	10856 May 17 15:05	0°♎09'31	1.44378 AU	greatest brilliancy	10857 Apr 06 21:07	7°♎59'49	-0.8m
	10856 May 17 12:42	0°♎		desc. node	10857 Apr 07 19:34	9°♎25'15	
superior conj	10856 May 22 21:24	8°♎37'02	-2°11'39	morning set	10857 Apr 16 01:23	22°♎08'27	
minimum elong	10856 May 23 00:03	8°♎47'48	2°12'07		10857 Apr 21 02:46	0°♎	
	10856 Jun 04 17:03	0°♎		max. Earth dist.	10857 Apr 30 07:49	14°♎22'33	1.45390 AU
evening rise	10856 Jun 05 04:46	0°♎49'59					
asc. node	10856 Jun 14 03:48	15°♎55'57		superior conj	10857 May 02 12:37	17°♎49'57	-2°09'19
evening max el	10856 Jun 22 23:56	28°♎03'47	18°07'50	minimum elong	10857 May 02 07:57	17°♎31'36	2°09'34
	10856 Jun 25 07:31	0°♎			10857 May 10 04:38	0°♎	
retrograde	10856 Jun 29 08:57	1°♎24'05		evening rise	10857 May 17 11:39	11°♎46'13	
evening set	10856 Jul 02 04:09	0°♎43'35			10857 May 28 19:46	0°♎	
	10856 Jul 03 10:38	30°♎		asc. node	10857 Jun 01 00:52	4°♎46'48	
inferior conj	10856 Jul 08 08:28	25°♎28'21	2°29'55	evening max el	10857 Jun 06 12:55	11°♎35'54	18°28'32
minimum elong	10856 Jul 08 11:05	25°♎21'17	2°28'44	retrograde	10857 Jun 12 23:51	15°♎05'03	
min. Earth dist.	10856 Jul 11 02:46	22°♎30'48	0.62877 AU	evening set	10857 Jun 16 02:58	14°♎10'10	
morning rise	10856 Jul 14 16:14	19°♎17'27		inferior conj	10857 Jun 21 21:00	8°♎38'08	3°01'20
desc. node	10856 Jul 17 22:27	17°♎26'29		minimum elong	10857 Jun 21 22:46	8°♎32'52	3°00'28
direct	10856 Jul 21 09:16	16°♎47'27		min. Earth dist.	10857 Jun 24 01:02	6°♎03'28	0.64870 AU

morning rise	10857 Jun 27 17:31	2°☿18'52		inferior conj	10858 Jun 05 18:39	22°♊08'42	3°15'35
	10857 Jul 01 18:46	30°♊II		minimum elong	10858 Jun 05 19:16	22°♊06'44	3°14'58
direct	10857 Jul 04 07:16	29°♊37'04		min. Earth dist.	10858 Jun 07 07:44	20°♊09'38	0.66490 AU
desc. node	10857 Jul 04 19:36	29°♊37'59		morning rise	10858 Jun 11 06:39	15°♊47'17	
	10857 Jul 06 22:41	0°☿		direct	10858 Jun 17 12:28	13°♊04'25	
morning max el	10857 Jul 17 20:22	7°☿34'25	27°16'26	desc. node	10858 Jun 21 16:41	14°♊04'48	
	10857 Aug 04 04:13	0°♊		morning max el	10858 Jun 30 07:12	20°♊42'29	26°13'11
	10857 Aug 21 14:36	0°♊			10858 Jul 08 07:20	0°☿	
morning set	10857 Aug 22 07:00	1°♊19'27			10858 Jul 28 07:58	0°♊	
max. Earth dist.	10857 Aug 26 19:25	10°♊21'39	1.33358 AU	morning set	10858 Aug 05 07:17	14°♊09'42	
asc. node	10857 Aug 28 00:50	12°♊53'37		max. Earth dist.	10858 Aug 09 04:42	21°♊34'09	1.34994 AU
					10858 Aug 13 10:28	0°♊	
superior conj	10857 Aug 30 14:16	18°♊16'18	0°24'59				
minimum elong	10857 Aug 30 13:03	18°♊09'50	0°24'34	superior conj	10858 Aug 14 10:44	2°♊03'37	-0°04'27
	10857 Sep 05 01:41	0°♊		minimum elong	10858 Aug 14 11:01	2°♊05'02	0°04'43
evening rise	10857 Sep 06 17:57	3°♊34'33		behind sun begin	10858 Aug 14 05:16	1°♊35'38	
	10857 Sep 21 03:45	0°♊		behind sun end	10858 Aug 14 16:46	2°♊34'29	
evening max el	10857 Sep 27 19:37	8°♊04'16	22°08'25	asc. node	10858 Aug 14 21:40	2°♊59'36	
desc. node	10857 Sep 30 17:18	10°♊36'43		evening rise	10858 Aug 22 02:35	17°♊58'31	
retrograde	10857 Oct 10 13:38	14°♊25'05			10858 Aug 28 03:04	0°♊	
evening set	10857 Oct 13 18:30	14°♊02'16		evening max el	10858 Sep 09 17:41	18°♊36'47	20°39'14
min. Earth dist.	10857 Oct 22 01:00	10°♊23'42	0.54752 AU	desc. node	10858 Sep 17 14:36	23°♊43'08	
inferior conj	10857 Oct 22 15:40	10°♊03'07	-5°29'12	retrograde	10858 Sep 21 01:23	24°♊13'49	
minimum elong	10857 Oct 22 09:08	10°♊12'17	5°27'58	evening set	10858 Sep 23 05:10	24°♊02'26	
morning rise	10857 Oct 31 01:16	6°♊16'09		inferior conj	10858 Oct 02 07:59	20°♊06'35	-4°15'52
direct	10857 Nov 03 11:23	5°♊50'11		minimum elong	10858 Oct 01 22:04	20°♊20'51	4°12'52
morning max el	10857 Nov 15 10:40	11°♊29'53	21°36'25	min. Earth dist.	10858 Oct 03 09:17	19°♊30'11	0.54685 AU
asc. node	10857 Nov 24 01:25	22°♊15'39		morning rise	10858 Oct 10 14:45	16°♊07'35	
	10857 Nov 28 15:25	0°♊		direct	10858 Oct 14 19:43	15°♊29'34	
morning set	10857 Dec 05 23:25	14°♊30'48		morning max el	10858 Oct 28 01:14	21°♊53'13	23°20'54
					10858 Nov 04 02:00	0°♊	
superior conj	10857 Dec 13 04:08	29°♊41'45	1°33'29	asc. node	10858 Nov 10 22:21	10°♊39'10	
minimum elong	10857 Dec 13 05:46	29°♊50'15	1°33'59	morning set	10858 Nov 20 10:56	29°♊18'45	
	10857 Dec 13 07:38	0°♊			10858 Nov 20 18:41	0°♊	
max. Earth dist.	10857 Dec 17 10:52	8°♊28'08	1.34879 AU				
evening rise	10857 Dec 21 15:40	16°♊40'37		superior conj	10858 Nov 27 09:07	14°♊16'07	1°39'10
desc. node	10857 Dec 27 15:38	27°♊38'05		minimum elong	10858 Nov 27 09:34	14°♊18'28	1°39'43
	10857 Dec 29 00:20	0°♊		max. Earth dist.	10858 Nov 30 06:03	20°♊23'42	1.33318 AU
	10858 Jan 18 06:17	0°♊			10858 Dec 04 22:21	0°♊	
evening max el	10858 Jan 25 20:44	8°♊25'44	26°42'48	evening rise	10858 Dec 05 02:33	0°♊20'54	
retrograde	10858 Feb 07 23:27	15°♊46'41		desc. node	10858 Dec 14 12:38	17°♊49'12	
evening set	10858 Feb 14 10:26	13°♊13'19			10858 Dec 22 01:05	0°♊	
min. Earth dist.	10858 Feb 18 11:41	9°♊09'09	0.66158 AU	evening max el	10859 Jan 08 09:45	21°♊54'27	27°20'44
inferior conj	10858 Feb 20 10:18	6°♊51'40	0°08'20	retrograde	10859 Jan 21 23:24	29°♊18'12	
minimum elong	10858 Feb 20 10:04	6°♊52'21	0°08'30	evening set	10859 Jan 28 18:57	26°♊45'44	
transit middle	10858 Feb 20 10:04	6°♊52'21	0°08'30	min. Earth dist.	10859 Feb 01 15:24	23°♊13'54	0.64577 AU
transit begin	10858 Feb 20 07:35	6°♊59'43		inferior conj	10859 Feb 04 01:34	20°♊37'26	-0°56'05
transit end	10858 Feb 20 12:33	6°♊45'01		minimum elong	10859 Feb 04 03:17	20°♊32'49	0°54'57
asc. node	10858 Feb 20 00:07	7°♊21'52		asc. node	10859 Feb 06 21:22	17°♊44'57	
morning rise	10858 Feb 26 10:50	1°♊12'20		morning rise	10859 Feb 10 13:24	15°♊11'28	
direct	10858 Mar 01 08:44	0°♊25'21		direct	10859 Feb 13 02:40	14°♊37'50	
morning max el	10858 Mar 07 19:36	3°♊51'06	18°17'15	morning max el	10859 Feb 19 12:26	17°♊58'10	17°53'22
desc. node	10858 Mar 25 16:19	29°♊39'14			10859 Feb 28 09:41	0°♊	
	10858 Mar 25 21:30	0°♊		morning set	10859 Mar 08 18:31	13°♊48'53	
morning set	10858 Mar 27 07:25	2°♊15'47		desc. node	10859 Mar 12 13:02	20°♊06'12	
					10859 Mar 18 13:38	0°♊	
superior conj	10858 Apr 11 18:55	26°♊46'17	-1°46'48				
minimum elong	10858 Apr 11 09:32	26°♊09'33	1°46'13	superior conj	10859 Mar 22 10:39	6°♊14'48	-1°09'31
max. Earth dist.	10858 Apr 13 03:03	28°♊51'59	1.45672 AU	minimum elong	10859 Mar 22 03:09	5°♊44'45	1°08'33
	10858 Apr 13 20:28	0°♊		max. Earth dist.	10859 Mar 26 22:24	13°♊22'24	1.45216 AU
evening rise	10858 Apr 27 18:53	21°♊45'39			10859 Apr 06 15:10	0°♊	
	10858 May 03 01:23	0°♊		evening rise	10859 Apr 07 09:29	1°♊10'20	
greatest brilliancy	10858 May 08 16:00	8°♊40'43	-0.8m	greatest brilliancy	10859 Apr 22 07:36	23°♊38'29	-0.6m
asc. node	10858 May 18 21:59	23°♊02'34			10859 Apr 26 19:14	0°♊	
evening max el	10858 May 20 22:33	25°♊15'23	19°06'43	evening max el	10859 May 04 03:09	8°♊57'48	20°00'45
retrograde	10858 May 27 19:55	29°♊06'04		asc. node	10859 May 05 19:09	10°♊31'32	
evening set	10858 May 31 07:20	27°♊55'51		retrograde	10859 May 11 18:15	13°♊20'36	

evening set	10859 May 15 14:43	11°II54'33		evening max el	10860 Apr 16 02:11	22°842'07	21°07'59
inferior conj	10859 May 20 22:25	5°II53'51	3°15'57	asc. node	10860 Apr 21 16:21	27°800'25	
minimum elong	10859 May 20 21:55	5°II55'33	3°15'24	retrograde	10860 Apr 24 16:48	27°844'40	
min. Earth dist.	10859 May 21 21:01	4°II37'27	0.67681 AU	evening set	10860 Apr 28 23:15	26°802'45	
	10859 May 25 17:46	30°K8		inferior conj	10860 May 04 05:53	19°850'10	3°04'38
morning rise	10859 May 26 04:47	29°834'09		minimum elong	10860 May 04 04:29	19°855'01	3°04'02
direct	10859 May 31 23:30	26°859'58		min. Earth dist.	10860 May 04 14:51	19°819'01	0.68415 AU
	10859 Jun 08 04:20	0°II		morning rise	10860 May 09 09:29	13°834'30	
desc. node	10859 Jun 08 13:42	0°II17'54		direct	10860 May 14 15:21	11°816'19	
morning max el	10859 Jun 12 16:56	4°II02'17	24°51'45	morning max el	10860 May 25 02:40	17°830'18	23°22'22
	10859 Jul 02 14:11	0°8		desc. node	10860 May 25 10:37	17°850'32	
morning set	10859 Jul 18 14:34	26°810'29			10860 Jun 04 12:06	0°II	
	10859 Jul 20 17:53	0°8			10860 Jun 24 15:41	0°8	
max. Earth dist.	10859 Jul 22 04:37	2°838'18	1.37047 AU	morning set	10860 Jun 28 23:52	7°809'40	
				max. Earth dist.	10860 Jul 03 01:30	14°806'55	1.39335 AU
superior conj	10859 Jul 28 20:52	15°818'18	-0°36'56	superior conj	10860 Jul 10 16:56	27°851'48	-1°10'25
minimum elong	10859 Jul 28 23:15	15°830'01	0°36'57	minimum elong	10860 Jul 10 21:43	28°814'05	1°10'13
asc. node	10859 Aug 01 18:27	23°802'12			10860 Jul 11 20:25	0°8	
	10859 Aug 05 05:26	0°8		asc. node	10860 Jul 18 15:18	12°858'15	
evening rise	10859 Aug 06 06:23	2°805'29		evening rise	10860 Jul 20 02:34	15°848'44	
evening max el	10859 Aug 23 05:32	29°853'36	19°29'16		10860 Jul 27 17:29	0°8	
	10859 Aug 23 08:08	0°8		evening max el	10860 Aug 05 05:33	11°855'30	18°40'33
retrograde	10859 Sep 01 20:17	4°840'14		retrograde	10860 Aug 13 08:38	15°859'33	
evening set	10859 Sep 03 16:33	4°830'27		evening set	10860 Aug 15 08:11	15°845'53	
desc. node	10859 Sep 04 11:55	4°820'18		desc. node	10860 Aug 21 09:12	12°845'50	
inferior conj	10859 Sep 12 10:04	0°824'43	-2°27'09	inferior conj	10860 Aug 23 07:41	11°821'16	-0°36'03
minimum elong	10859 Sep 12 03:32	0°835'12	2°24'44	minimum elong	10860 Aug 23 06:14	11°824'00	0°35'42
	10859 Sep 13 01:27	30°K8		min. Earth dist.	10860 Aug 26 12:15	8°859'11	0.57207 AU
min. Earth dist.	10859 Sep 14 20:24	28°851'30	0.55560 AU	morning rise	10860 Aug 31 00:52	6°814'56	
morning rise	10859 Sep 20 12:09	25°855'48		direct	10860 Sep 05 19:57	4°852'12	
direct	10859 Sep 25 13:00	24°858'50		morning max el	10860 Sep 20 03:08	12°820'57	26°37'04
	10859 Oct 07 06:17	0°8			10860 Oct 03 22:34	0°8	
morning max el	10859 Oct 09 12:17	1°859'30	25°06'59	asc. node	10860 Oct 14 16:01	19°801'12	
asc. node	10859 Oct 28 19:12	29°837'19		morning set	10860 Oct 19 08:48	28°841'53	
	10859 Oct 29 00:01	0°8			10860 Oct 19 23:24	0°8	
morning set	10859 Nov 04 22:37	14°803'55		superior conj	10860 Oct 26 05:40	13°846'54	1°32'00
superior conj	10859 Nov 11 18:19	28°859'54	1°38'32	minimum elong	10860 Oct 26 04:05	13°838'07	1°32'14
minimum elong	10859 Nov 11 17:38	28°856'08	1°38'59	max. Earth dist.	10860 Oct 26 16:50	14°849'01	1.31577 AU
	10859 Nov 12 05:15	0°8		evening rise	10860 Nov 02 02:38	28°847'33	
max. Earth dist.	10859 Nov 13 08:54	2°831'28	1.32210 AU		10860 Nov 02 16:24	0°8	
evening rise	10859 Nov 18 23:07	14°825'41		desc. node	10860 Nov 17 06:48	26°857'50	
	10859 Nov 27 00:09	0°8			10860 Nov 19 05:49	0°8	
desc. node	10859 Dec 01 09:42	7°838'48		evening max el	10860 Dec 03 02:51	17°816'25	27°07'47
	10859 Dec 17 04:05	0°8		retrograde	10860 Dec 17 00:31	24°827'48	
evening max el	10859 Dec 21 20:44	4°856'00	27°30'47	evening set	10860 Dec 23 22:38	22°821'46	
retrograde	10860 Jan 04 16:10	12°815'01		min. Earth dist.	10860 Dec 27 17:22	19°839'12	0.60624 AU
evening set	10860 Jan 11 16:11	9°851'20		inferior conj	10860 Dec 30 20:37	17°800'11	-3°24'30
min. Earth dist.	10860 Jan 15 09:47	6°847'56	0.62698 AU	minimum elong	10860 Dec 31 03:29	16°845'39	3°21'31
inferior conj	10860 Jan 18 06:09	4°803'28	-2°08'13	morning rise	10861 Jan 07 10:59	12°810'17	
minimum elong	10860 Jan 18 10:24	3°853'12	2°05'59	direct	10861 Jan 09 14:17	11°852'04	
	10860 Jan 23 01:45	30°K8		asc. node	10861 Jan 10 15:43	11°856'42	
asc. node	10860 Jan 24 18:33	29°805'44		morning max el	10861 Jan 16 20:44	15°830'18	17°59'14
morning rise	10860 Jan 25 06:58	28°853'49			10861 Jan 26 21:45	0°8	
direct	10860 Jan 27 13:47	28°829'42		morning set	10861 Feb 01 11:17	10°805'27	
	10860 Jan 31 23:01	0°8		superior conj	10861 Feb 11 15:23	28°831'31	0°12'30
morning max el	10860 Feb 03 05:56	1°854'25	17°47'03	minimum elong	10861 Feb 11 16:26	28°836'09	0°12'41
morning set	10860 Feb 19 06:01	26°832'30		behind sun begin	10861 Feb 11 11:32	28°814'34	
	10860 Feb 21 05:20	0°8		behind sun end	10861 Feb 11 21:21	28°857'41	
desc. node	10860 Feb 27 09:46	10°842'03			10861 Feb 12 11:35	0°8	
superior conj	10860 Mar 02 00:38	16°848'15	-0°27'08	desc. node	10861 Feb 13 06:30	1°822'19	
minimum elong	10860 Mar 01 21:55	16°836'54	0°26'32	max. Earth dist.	10861 Feb 19 05:21	11°828'04	1.42358 AU
max. Earth dist.	10860 Mar 08 15:56	27°840'06	1.44072 AU	evening rise	10861 Feb 24 22:35	20°845'00	
	10860 Mar 10 02:54	0°8			10861 Mar 02 20:57	0°8	
evening rise	10860 Mar 16 21:59	10°839'22			10861 Mar 24 03:28	0°8	
	10860 Mar 29 18:55	0°8					

evening max el	10861 Mar 29 20:10	6°8'27"19	22°24'32"		10862 Feb 24 05:01	0°9'	
retrograde	10861 Apr 08 13:53	12°8'12"45		evening max el	10862 Mar 12 10:48	20°9'14"39	23°45'01"
asc. node	10861 Apr 08 13:35	12°8'12"45		retrograde	10862 Mar 23 08:13	26°9'39"50	
evening set	10861 Apr 13 07:16	10°8'15"34		asc. node	10862 Mar 26 10:51	25°9'54"18	
inferior conj	10861 Apr 18 14:57	3°8'53"31	2°43'03"	evening set	10862 Mar 28 13:13	24°9'28"48	
minimum elong	10861 Apr 18 12:57	4°8'00"26	2°42'21"	inferior conj	10862 Apr 02 23:43	18°9'00"33	2°11'53"
min. Earth dist.	10861 Apr 18 11:08	4°8'06"47	0.68684 AU	minimum elong	10862 Apr 02 21:32	18°9'08"01	2°11'07"
	10861 Apr 21 13:28	30°8'9"		min. Earth dist.	10862 Apr 02 07:44	18°9'55"10	0.68506 AU
morning rise	10861 Apr 23 18:31	27°9'43"14		morning rise	10862 Apr 08 05:52	11°9'56"48	
direct	10861 Apr 28 10:50	25°9'45"23		direct	10862 Apr 12 08:58	10°9'20"42	
	10861 May 06 11:30	0°8'		morning max el	10862 Apr 20 10:10	14°9'55"21	20°34'57"
morning max el	10861 May 07 15:22	1°8'07"09	21°54'21"	desc. node	10862 Apr 29 04:19	25°9'32"29	
desc. node	10861 May 12 07:30	6°8'20"37			10862 May 02 09:15	0°8'	
	10861 May 29 08:17	0°II		morning set	10862 May 19 14:48	25°8'45"03	
morning set	10861 Jun 09 07:12	16°II'58"18			10862 May 22 08:12	0°II	
max. Earth dist.	10861 Jun 15 01:57	26°II'24"35	1.41577 AU	max. Earth dist.	10862 May 28 08:51	9°II'34"38	1.43501 AU
	10861 Jun 17 05:19	0°☾					
superior conj	10861 Jun 22 18:29	9°☾33'49"	-1°41'22"	superior conj	10862 Jun 03 21:16	20°II'15"26	-2°04'30"
minimum elong	10861 Jun 23 00:55	10°☾02'10"	1°41'14"	minimum elong	10862 Jun 04 02:37	20°II'37"44	2°04'45"
evening rise	10861 Jul 03 11:32	28°☾59"05			10862 Jun 09 15:21	0°☾	
	10861 Jul 04 00:44	0°♈		evening rise	10862 Jun 16 04:43	11°☾25"17	
asc. node	10861 Jul 05 12:13	2°♈43'29"		asc. node	10862 Jun 22 09:11	22°☾12"46	
evening max el	10861 Jul 19 13:54	24°♈34'42"	18°12'32"		10862 Jun 27 03:40	0°♈	
retrograde	10861 Jul 26 16:06	28°♈10'13"		evening max el	10862 Jul 03 02:46	7°♈41'39"	18°04'09"
evening set	10861 Jul 28 22:43	27°♈48'39"		retrograde	10862 Jul 09 15:11	11°♈03'27"	
inferior conj	10861 Aug 05 03:06	23°♈03'24"	0°55'55"	evening set	10862 Jul 12 05:42	10°♈30'42"	
minimum elong	10861 Aug 05 04:52	22°♈59'33"	0°54'54"	inferior conj	10862 Jul 18 17:43	5°♈26'06"	2°02'30"
desc. node	10861 Aug 08 06:26	20°♈19'29"		minimum elong	10862 Jul 18 20:28	5°♈19'11"	2°01'12"
min. Earth dist.	10861 Aug 08 11:14	20°♈09'30"	0.59326 AU	min. Earth dist.	10862 Jul 21 18:59	2°♈23'09"	0.61604 AU
morning rise	10861 Aug 12 07:45	17°♈23'39"			10862 Jul 24 12:42	30°♈☾	
direct	10861 Aug 18 16:29	15°♈31'36"		morning rise	10862 Jul 25 08:48	29°☾23'22"	
morning max el	10861 Sep 02 01:14	23°♈20'52"	27°36'18"	desc. node	10862 Jul 26 03:41	28°☾52'34"	
	10861 Sep 08 00:27	0°♏		direct	10862 Aug 01 00:49	27°☾04'40"	
	10861 Sep 27 02:25	0°♏			10862 Aug 09 04:33	0°♏	
asc. node	10861 Oct 01 12:48	8°♏43'36"		morning max el	10862 Aug 15 05:59	5°♏05'54"	27°57'22"
morning set	10861 Oct 03 15:49	13°♏07'53"			10862 Sep 02 21:50	0°♏	
max. Earth dist.	10861 Oct 10 02:15	27°♏07'38"	1.31425 AU	morning set	10862 Sep 17 17:37	27°♏15'44"	
				asc. node	10862 Sep 18 09:35	28°♏38'09"	
superior conj	10861 Oct 10 17:19	28°♏31'28"	1°19'55"		10862 Sep 19 01:18	0°♏	
minimum elong	10861 Oct 10 15:12	28°♏19'39"	1°19'53"	max. Earth dist.	10862 Sep 23 09:08	9°♏15'31"	1.31773 AU
	10861 Oct 11 09:13	0°♏					
evening rise	10861 Oct 17 10:46	13°♏20'04"		superior conj	10862 Sep 25 03:25	13°♏07'21"	1°02'31"
	10861 Oct 25 18:08	0°♏		minimum elong	10862 Sep 25 01:11	12°♏55'07"	1°02'13"
desc. node	10861 Nov 04 03:58	15°♏34'16"		evening rise	10862 Oct 01 21:29	27°♏56'47"	
evening max el	10861 Nov 15 01:27	28°♏46'08"	26°10'47"		10862 Oct 02 20:31	0°♏	
	10861 Nov 16 09:56	0°♏		desc. node	10862 Oct 19 15:43	0°♏	
retrograde	10861 Nov 28 23:28	5°♏50'18"		evening max el	10862 Oct 22 01:12	3°♏10'40"	
evening set	10861 Dec 05 10:02	4°♏10'53"			10862 Oct 27 15:54	9°♏25'23"	24°45'31"
min. Earth dist.	10861 Dec 09 14:27	1°♏35'56"	0.58511 AU	retrograde	10862 Nov 10 11:09	16°♏20'49"	
	10861 Dec 11 18:56	30°♏8'♏		evening set	10862 Nov 15 21:53	15°♏14'30"	
inferior conj	10861 Dec 12 17:30	29°♏18'08"	-4°37'00"	min. Earth dist.	10862 Nov 21 03:27	12°♏28'51"	0.56601 AU
minimum elong	10861 Dec 13 01:35	29°♏03'14"	4°34'20"	inferior conj	10862 Nov 23 18:05	10°♏48'26"	-5°31'12"
morning rise	10861 Dec 20 19:45	24°♏50'39"		minimum elong	10862 Nov 23 23:37	10°♏39'32"	5°29'58"
direct	10861 Dec 22 23:42	24°♏35'02"		morning rise	10862 Dec 02 03:34	6°♏42'47"	
asc. node	10861 Dec 28 12:49	26°♏24'27"		direct	10862 Dec 04 14:07	6°♏26'19"	
morning max el	10861 Dec 31 05:16	28°♏36'20"	18°31'28"	morning max el	10862 Dec 14 03:32	11°♏00'32"	19°25'40"
	10862 Jan 01 13:18	0°♏		asc. node	10862 Dec 15 09:53	12°♏17'54"	
morning set	10862 Jan 16 05:01	24°♏12'06"			10862 Dec 26 21:02	0°♏	
	10862 Jan 19 05:10	0°♏		morning set	10862 Dec 31 07:10	8°♏40'09"	
superior conj	10862 Jan 25 03:38	11°♏15'05"	0°45'20"				
minimum elong	10862 Jan 25 06:27	11°♏28'06"	0°45'24"	superior conj	10863 Jan 08 08:26	24°♏44'22"	1°10'10"
desc. node	10862 Jan 31 03:18	22°♏03'48"		minimum elong	10863 Jan 08 11:25	24°♏58'57"	1°10'21"
max. Earth dist.	10862 Feb 01 13:51	24°♏34'27"	1.40274 AU		10863 Jan 11 01:53	0°♏	
	10862 Feb 04 18:12	0°♏		max. Earth dist.	10863 Jan 14 19:40	6°♏59'03"	1.38057 AU
evening rise	10862 Feb 05 19:16	1°♏44'50"		desc. node	10863 Jan 18 00:08	12°♏42'32"	
				evening rise	10863 Jan 18 13:17	13°♏40'18"	
					10863 Jan 28 09:10	0°♏	

	10863 Feb 19 04:02	0°♿			10864 Jan 21 19:50	0°♿	
evening max el	10863 Feb 23 00:13	4°♿04'40	25°02'58	evening max el	10864 Feb 05 13:47	17°♿53'44	26°11'07
retrograde	10863 Mar 06 22:33	11°♿00'35		retrograde	10864 Feb 18 07:49	25°♿08'19	
evening set	10863 Mar 12 15:34	8°♿38'07		evening set	10864 Feb 24 12:33	22°♿37'50	
asc. node	10863 Mar 13 08:08	8°♿00'55		asc. node	10864 Feb 28 05:25	18°♿49'12	
min. Earth dist.	10863 Mar 17 02:32	3°♿39'26	0.67903 AU	min. Earth dist.	10864 Feb 28 17:09	18°♿13'53	0.66902 AU
inferior conj	10863 Mar 18 06:22	2°♿08'05	1°31'21	inferior conj	10864 Mar 01 08:51	16°♿11'29	0°41'23
minimum elong	10863 Mar 18 04:28	2°♿14'21	1°30'42	minimum elong	10864 Mar 01 07:49	16°♿14'42	0°41'10
	10863 Mar 19 22:17	30°♿		morning rise	10864 Mar 07 03:49	10°♿25'17	
morning rise	10863 Mar 23 17:40	26°♿12'11		direct	10864 Mar 10 07:31	9°♿28'49	
direct	10863 Mar 27 08:25	24°♿57'04		morning max el	10864 Mar 16 22:22	13°♿02'44	18°38'37
morning max el	10863 Apr 03 12:39	28°♿55'07	19°28'54		10864 Mar 29 11:25	0°♿	
	10863 Apr 04 13:54	0°♿		desc. node	10864 Apr 01 21:52	5°♿19'28	
greatest brilliancy	10863 Apr 16 05:27	15°♿30'57	-0.7m	morning set	10864 Apr 07 04:42	13°♿36'06	
desc. node	10863 Apr 16 01:07	15°♿14'58			10864 Apr 17 15:58	0°♿	
	10863 Apr 25 19:39	0°♿		max. Earth dist.	10864 Apr 22 16:14	7°♿50'08	1.45606 AU
morning set	10863 Apr 28 14:13	4°♿15'37					
max. Earth dist.	10863 May 10 22:05	23°♿27'46	1.44891 AU	superior conj	10864 Apr 23 09:29	8°♿57'39	-2°02'05
				minimum elong	10864 Apr 23 02:03	8°♿28'34	2°02'00
superior conj	10863 May 15 00:07	29°♿56'59	-2°13'08		10864 May 06 17:43	0°♿	
minimum elong	10863 May 14 23:51	29°♿55'58	2°13'38	evening rise	10864 May 08 21:43	3°♿27'12	
	10863 May 15 00:52	0°♿		greatest brilliancy	10864 May 16 15:38	15°♿48'13	-0.9m
evening rise	10863 May 29 01:13	22°♿56'27		asc. node	10864 May 26 03:20	29°♿57'41	
	10863 Jun 02 06:34	0°♿			10864 May 26 04:02	0°♿	
asc. node	10863 Jun 09 06:14	11°♿20'17		evening max el	10864 May 30 04:33	4°♿44'09	18°42'44
evening max el	10863 Jun 16 16:39	21°♿07'41	18°14'30	retrograde	10864 Jun 05 18:47	8°♿20'35	
retrograde	10863 Jun 23 01:25	24°♿30'03		evening set	10864 Jun 09 01:27	7°♿19'09	
evening set	10863 Jun 25 23:56	23°♿43'42		inferior conj	10864 Jun 14 16:14	1°♿40'39	3°09'12
inferior conj	10863 Jul 01 23:26	18°♿21'26	2°45'33	minimum elong	10864 Jun 14 17:31	1°♿36'40	3°08'28
minimum elong	10863 Jul 02 01:46	18°♿14'51	2°44'30		10864 Jun 16 00:47	30°♿	
min. Earth dist.	10863 Jul 04 12:01	15°♿31'22	0.63766 AU	min. Earth dist.	10864 Jun 16 13:55	29°♿20'01	0.65620 AU
morning rise	10863 Jul 08 02:07	12°♿06'03		morning rise	10864 Jun 20 08:49	25°♿20'09	
desc. node	10863 Jul 13 00:53	9°♿39'30		direct	10864 Jun 26 19:49	22°♿36'34	
direct	10863 Jul 14 18:35	9°♿29'20		desc. node	10864 Jun 28 22:01	22°♿51'40	
morning max el	10863 Jul 28 14:57	17°♿31'31	27°40'46		10864 Jul 09 14:53	0°♿	
	10863 Aug 08 00:42	0°♿		morning max el	10864 Jul 10 01:36	0°♿26'50	26°52'13
	10863 Aug 26 18:07	0°♿			10864 Aug 01 00:42	0°♿	
morning set	10863 Sep 01 11:56	10°♿59'43		morning set	10864 Aug 14 19:46	24°♿11'47	
asc. node	10863 Sep 05 06:23	18°♿40'31			10864 Aug 17 19:20	0°♿	
max. Earth dist.	10863 Sep 06 09:46	21°♿03'56	1.32635 AU	max. Earth dist.	10864 Aug 19 01:07	2°♿28'29	1.34003 AU
				asc. node	10864 Aug 22 03:10	8°♿46'08	
superior conj	10863 Sep 09 10:03	27°♿29'33	0°40'03				
minimum elong	10863 Sep 09 08:17	27°♿20'02	0°39'39	superior conj	10864 Aug 23 10:57	11°♿31'27	0°12'58
	10863 Sep 10 13:52	0°♿		minimum elong	10864 Aug 23 10:17	11°♿27'57	0°12'36
evening rise	10863 Sep 16 08:56	12°♿33'03		behind sun begin	10864 Aug 23 06:42	11°♿09'17	
	10863 Sep 25 03:08	0°♿		behind sun end	10864 Aug 23 13:51	11°♿46'39	
desc. node	10863 Oct 08 22:28	19°♿24'39		evening rise	10864 Aug 30 19:10	27°♿03'09	
evening max el	10863 Oct 09 02:30	19°♿34'29	23°05'36		10864 Sep 01 05:02	0°♿	
retrograde	10863 Oct 22 09:48	26°♿11'55		evening max el	10864 Sep 19 18:00	29°♿48'35	21°28'25
evening set	10863 Oct 26 10:34	25°♿36'34			10864 Sep 19 22:40	0°♿	
min. Earth dist.	10863 Nov 02 11:47	22°♿21'57	0.55210 AU	desc. node	10864 Sep 24 19:46	3°♿48'06	
inferior conj	10863 Nov 03 23:14	21°♿30'44	-5°45'58	retrograde	10864 Oct 01 22:31	5°♿51'53	
minimum elong	10863 Nov 03 21:22	21°♿33'27	5°45'28	evening set	10864 Oct 04 14:53	5°♿35'26	
morning rise	10863 Nov 12 09:51	17°♿40'36		inferior conj	10864 Oct 13 16:20	1°♿39'34	-5°04'18
direct	10863 Nov 15 10:09	17°♿19'08		minimum elong	10864 Oct 13 07:24	1°♿52'04	5°02'11
morning max el	10863 Nov 26 12:25	22°♿34'05	20°42'40	min. Earth dist.	10864 Oct 13 18:49	1°♿36'06	0.54609 AU
asc. node	10863 Dec 02 06:53	29°♿21'26			10864 Oct 16 17:17	30°♿	
	10863 Dec 02 17:46	0°♿		morning rise	10864 Oct 22 00:49	27°♿50'19	
morning set	10863 Dec 15 14:42	23°♿21'01		direct	10864 Oct 25 19:08	27°♿19'42	
	10863 Dec 18 19:30	0°♿			10864 Nov 03 03:40	0°♿	
superior conj	10863 Dec 23 01:19	8°♿46'36	1°27'07	morning max el	10864 Nov 07 08:10	3°♿18'12	22°19'43
minimum elong	10863 Dec 23 03:35	8°♿58'06	1°27'30	asc. node	10864 Nov 18 03:50	17°♿19'52	
max. Earth dist.	10863 Dec 28 03:51	18°♿57'41	1.35957 AU		10864 Nov 25 02:21	0°♿	
evening rise	10864 Jan 01 02:02	26°♿23'53		morning set	10864 Nov 29 01:21	8°♿08'27	
	10864 Jan 03 01:23	0°♿					
desc. node	10864 Jan 04 21:02	3°♿14'28		superior conj	10864 Dec 06 02:44	23°♿11'55	1°36'43
				minimum elong	10864 Dec 06 03:52	23°♿17'54	1°37'15

	10864 Dec 09 08:45	0°♄		minimum elong	10865 Nov 20 09:42	7°♄50'49	1°40'10
max. Earth dist.	10864 Dec 09 18:49	0°♄51'41	1.34162 AU	max. Earth dist.	10865 Nov 22 17:34	12°♄52'51	1.32784 AU
evening rise	10864 Dec 14 05:53	9°♄46'20		evening rise	10865 Nov 27 21:12	23°♄37'44	
desc. node	10864 Dec 21 17:59	23°♄35'07			10865 Dec 01 02:39	0°♄	
	10864 Dec 25 12:54	0°♄		desc. node	10865 Dec 08 14:58	13°♄38'03	
	10865 Jan 16 13:46	0°♄			10865 Dec 19 04:14	0°♄	
evening max el	10865 Jan 18 03:23	1°♄33'35	27°02'03	evening max el	10865 Dec 31 15:37	14°♄51'40	27°28'45
retrograde	10865 Jan 31 11:09	8°♄55'59		retrograde	10866 Jan 14 07:58	22°♄14'00	
evening set	10865 Feb 07 02:14	6°♄22'19		evening set	10866 Jan 21 06:15	19°♄43'56	
min. Earth dist.	10865 Feb 11 01:23	2°♄32'15	0.65526 AU	min. Earth dist.	10866 Jan 25 01:05	16°♄25'12	0.63810 AU
inferior conj	10865 Feb 13 04:56	0°♄05'48	-0°17'53	inferior conj	10866 Jan 27 15:58	13°♄43'45	-1°25'53
minimum elong	10865 Feb 13 05:26	0°♄04'22	0°17'20	minimum elong	10866 Jan 27 18:42	13°♄36'42	1°24'16
	10865 Feb 13 06:58	30°♄		asc. node	10866 Jan 31 23:52	9°♄45'53	
asc. node	10865 Feb 14 02:39	29°♄04'34		morning rise	10866 Feb 03 09:11	8°♄24'36	
morning rise	10865 Feb 19 09:59	24°♄31'43		direct	10866 Feb 05 19:28	7°♄55'26	
direct	10865 Feb 22 04:06	23°♄50'43		morning max el	10866 Feb 12 06:55	11°♄16'10	17°48'36
morning max el	10865 Feb 28 13:24	27°♄12'35	18°05'03		10866 Feb 25 02:43	0°♄	
	10865 Mar 03 01:45	0°♄		morning set	10866 Feb 28 21:36	6°♄27'12	
morning set	10865 Mar 18 23:25	24°♄21'57		desc. node	10866 Mar 06 15:18	16°♄11'17	
desc. node	10865 Mar 19 18:36	25°♄40'05					
	10865 Mar 22 10:36	0°♄		superior conj	10866 Mar 13 17:54	27°♄56'16	-0°51'37
superior conj	10865 Apr 02 17:40	18°♄02'20	-1°32'15	minimum elong	10866 Mar 13 12:22	27°♄33'47	0°50'46
minimum elong	10865 Apr 02 08:22	17°♄25'45	1°31'24		10866 Mar 15 00:26	0°♄	
max. Earth dist.	10865 Apr 05 12:31	22°♄24'54	1.45576 AU	max. Earth dist.	10866 Mar 19 07:27	6°♄52'14	1.44805 AU
	10865 Apr 10 09:08	0°♄		evening rise	10866 Mar 29 08:20	22°♄30'37	
evening rise	10865 Apr 18 20:38	13°♄09'01			10866 Apr 03 06:20	0°♄	
	10865 Apr 29 20:04	0°♄		evening max el	10866 Apr 26 14:21	2°♄08'54	20°27'50
greatest brilliancy	10865 May 01 16:42	2°♄47'30	-0.7m	asc. node	10866 Apr 29 21:37	5°♄01'03	
asc. node	10865 May 13 00:27	17°♄55'24		retrograde	10866 May 04 14:55	6°♄48'18	
evening max el	10865 May 13 12:14	18°♄25'42	19°27'45	evening set	10866 May 08 15:30	5°♄15'22	
retrograde	10865 May 20 16:07	22°♄28'33			10866 May 13 07:33	30°♄	
evening set	10865 May 24 07:23	21°♄11'25		inferior conj	10866 May 13 22:26	29°♄09'06	3°12'29
inferior conj	10865 May 29 16:48	15°♄18'08	3°17'14	minimum elong	10866 May 13 21:31	29°♄12'14	3°11'56
minimum elong	10865 May 29 16:56	15°♄17'44	3°16'40	min. Earth dist.	10866 May 14 15:04	28°♄12'03	0.68048 AU
min. Earth dist.	10865 May 30 23:32	13°♄37'00	0.67063 AU	morning rise	10866 May 19 03:17	22°♄50'48	
morning rise	10865 Jun 04 02:05	8°♄57'15		direct	10866 May 24 16:32	20°♄22'56	
direct	10865 Jun 10 03:26	6°♄17'20		desc. node	10866 Jun 02 16:05	24°♄58'01	
desc. node	10865 Jun 15 19:05	8°♄07'34		morning max el	10866 Jun 04 21:49	27°♄06'12	24°14'10
morning max el	10865 Jun 22 12:04	13°♄41'17	25°40'05		10866 Jun 07 14:40	0°♄	
	10865 Jul 05 17:35	0°♄			10866 Jun 29 08:23	0°♄	
	10865 Jul 24 19:12	0°♄		morning set	10866 Jul 10 12:03	18°♄19'39	
morning set	10865 Jul 28 13:22	6°♄42'17		max. Earth dist.	10866 Jul 14 04:20	24°♄48'23	1.38007 AU
max. Earth dist.	10865 Aug 01 06:19	13°♄35'58	1.35835 AU		10866 Jul 17 00:55	0°♄	
superior conj	10865 Aug 07 03:25	25°♄05'52	-0°17'58	superior conj	10866 Jul 21 08:06	8°♄04'48	-0°51'11
minimum elong	10865 Aug 07 04:31	25°♄11'26	0°18'08	minimum elong	10866 Jul 21 11:31	8°♄21'11	0°51'06
asc. node	10865 Aug 08 23:58	28°♄51'10		asc. node	10866 Jul 26 20:47	18°♄52'02	
	10865 Aug 09 13:28	0°♄		evening rise	10866 Jul 30 03:04	25°♄19'49	
evening rise	10865 Aug 15 02:02	11°♄20'58			10866 Aug 01 12:07	0°♄	
	10865 Aug 24 22:23	0°♄		evening max el	10866 Aug 15 15:06	22°♄15'27	19°05'53
evening max el	10865 Sep 01 21:42	10°♄38'15	20°06'46	retrograde	10866 Aug 24 13:53	26°♄42'57	
desc. node	10865 Sep 11 17:04	15°♄52'24		evening set	10866 Aug 26 10:29	26°♄32'12	
retrograde	10865 Sep 12 11:57	15°♄54'04		desc. node	10866 Aug 29 14:23	25°♄29'06	
evening set	10865 Sep 14 10:41	15°♄44'10		inferior conj	10866 Sep 03 20:54	22°♄19'04	-1°38'40
inferior conj	10865 Sep 23 11:05	11°♄45'09	-3°31'59	minimum elong	10866 Sep 03 16:36	22°♄26'24	1°37'06
minimum elong	10865 Sep 23 02:02	11°♄58'41	3°28'54	min. Earth dist.	10866 Sep 06 16:55	20°♄23'22	0.56177 AU
min. Earth dist.	10865 Sep 25 03:43	10°♄44'31	0.54947 AU	morning rise	10866 Sep 11 19:41	17°♄33'57	
morning rise	10865 Oct 01 16:18	7°♄35'28		direct	10866 Sep 17 04:22	16°♄26'53	
direct	10865 Oct 06 05:35	6°♄50'33		morning max el	10866 Oct 01 08:30	23°♄41'16	25°48'18
morning max el	10865 Oct 19 20:13	13°♄30'24	24°07'04		10866 Oct 07 02:02	0°♄	
	10865 Nov 01 13:16	0°♄		asc. node	10866 Oct 22 21:33	25°♄09'54	
asc. node	10865 Nov 05 00:43	5°♄59'28			10866 Oct 25 08:15	0°♄	
morning set	10865 Nov 13 13:08	22°♄56'03		morning set	10866 Oct 29 00:23	7°♄39'11	
	10865 Nov 16 19:31	0°♄					
superior conj	10865 Nov 20 09:45	7°♄51'08	1°39'39	superior conj	10866 Nov 04 20:08	22°♄37'32	1°36'27
				minimum elong	10866 Nov 04 19:02	22°♄31'27	1°36'50

max. Earth dist.	10866 Nov 05 22:50	25° \mathbb{M} 05'03	1.31877 AU		10867 Oct 01 21:26	0° \mathbb{L}	
	10866 Nov 08 04:41	0° \mathbb{A}		asc. node	10867 Oct 09 18:21	14° \mathbb{L} 42'21	
evening rise	10866 Nov 11 21:01	7° \mathbb{A} 50'45		morning set	10867 Oct 13 09:26	22° \mathbb{L} 12'35	
	10866 Nov 23 13:09	0° \mathbb{B}			10867 Oct 16 23:45	0° \mathbb{M}	
desc. node	10866 Nov 25 12:02	3° \mathbb{B} 15'57					
evening max el	10866 Dec 14 00:36	27° \mathbb{B} 36'16	27°25'08	superior conj	10867 Oct 20 07:51	7° \mathbb{M} 24'25	1°27'32
	10866 Dec 16 18:05	0° \mathbb{A}		minimum elong	10867 Oct 20 06:00	7° \mathbb{M} 14'05	1°27'40
retrograde	10866 Dec 27 21:31	4° \mathbb{A} 53'05		max. Earth dist.	10867 Oct 20 07:39	7° \mathbb{M} 23'17	1.31453 AU
evening set	10867 Jan 03 21:39	2° \mathbb{A} 35'29		evening rise	10867 Oct 27 02:47	22° \mathbb{M} 18'00	
	10867 Jan 07 06:46	30° \mathbb{R} \mathbb{B}			10867 Oct 30 19:59	0° \mathbb{A}	
min. Earth dist.	10867 Jan 07 14:52	29° \mathbb{B} 42'19	0.61829 AU	desc. node	10867 Nov 12 09:12	22° \mathbb{A} 18'36	
inferior conj	10867 Jan 10 14:54	26° \mathbb{B} 57'58	-2°40'27		10867 Nov 17 18:01	0° \mathbb{B}	
minimum elong	10867 Jan 10 20:19	26° \mathbb{B} 45'36	2°37'49	evening max el	10867 Nov 26 03:51	9° \mathbb{B} 36'11	26°47'35
morning rise	10867 Jan 17 21:34	21° \mathbb{B} 56'40		retrograde	10867 Dec 10 02:21	16° \mathbb{B} 44'45	
asc. node	10867 Jan 18 21:04	21° \mathbb{B} 42'10		evening set	10867 Dec 16 20:36	14° \mathbb{B} 49'17	
direct	10867 Jan 20 02:21	21° \mathbb{B} 35'36		min. Earth dist.	10867 Dec 20 18:09	12° \mathbb{B} 11'33	0.59711 AU
morning max el	10867 Jan 26 23:44	25° \mathbb{B} 05'02	17°49'55	inferior conj	10867 Dec 23 22:19	9° \mathbb{B} 39'36	-3°56'27
	10867 Jan 31 01:33	0° \mathbb{A}		minimum elong	10867 Dec 24 05:59	9° \mathbb{B} 24'15	3°53'27
morning set	10867 Feb 11 17:18	19° \mathbb{A} 33'19		morning rise	10867 Dec 31 18:06	4° \mathbb{B} 58'52	
	10867 Feb 17 13:58	0° \mathbb{H}		direct	10868 Jan 02 20:54	4° \mathbb{B} 42'16	
desc. node	10867 Feb 21 12:00	6° \mathbb{H} 49'10		asc. node	10868 Jan 05 18:12	5° \mathbb{B} 14'41	
				morning max el	10868 Jan 10 12:20	8° \mathbb{B} 29'37	18°10'22
superior conj	10867 Feb 22 18:30	8° \mathbb{H} 59'43	-0°09'41		10868 Jan 24 09:15	0° \mathbb{A}	
minimum elong	10867 Feb 22 17:37	8° \mathbb{H} 55'58	0°09'17	morning set	10868 Jan 26 04:29	3° \mathbb{A} 22'30	
behind sun begin	10867 Feb 22 10:31	8° \mathbb{H} 25'41					
behind sun end	10867 Feb 23 00:43	9° \mathbb{H} 26'11		superior conj	10868 Feb 04 18:57	21° \mathbb{A} 10'13	0°27'22
max. Earth dist.	10867 Mar 01 22:48	20° \mathbb{H} 56'36	1.43394 AU	minimum elong	10868 Feb 04 20:59	21° \mathbb{A} 19'22	0°27'28
	10867 Mar 07 14:51	0° \mathbb{Y}		desc. node	10868 Feb 08 08:45	27° \mathbb{A} 30'28	
evening rise	10867 Mar 09 00:19	2° \mathbb{Y} 10'57			10868 Feb 09 19:13	0° \mathbb{H}	
	10867 Mar 27 18:12	0° \mathbb{B}		max. Earth dist.	10868 Feb 12 09:47	4° \mathbb{H} 26'48	1.41499 AU
evening max el	10867 Apr 09 10:58	15° \mathbb{B} 53'03	21°39'47	evening rise	10868 Feb 17 08:59	12° \mathbb{H} 39'13	
asc. node	10867 Apr 16 18:51	20° \mathbb{B} 59'20			10868 Feb 28 13:14	0° \mathbb{Y}	
retrograde	10867 Apr 18 13:09	21° \mathbb{B} 14'26		evening max el	10868 Mar 22 03:25	29° \mathbb{Y} 39'51	22°58'48
evening set	10867 Apr 23 00:01	19° \mathbb{B} 26'05			10868 Mar 22 11:32	0° \mathbb{B}	
inferior conj	10867 Apr 28 06:50	13° \mathbb{B} 09'01	2°56'44	retrograde	10868 Apr 01 09:09	5° \mathbb{B} 42'51	
minimum elong	10867 Apr 28 05:08	13° \mathbb{B} 14'55	2°56'05	asc. node	10868 Apr 02 16:08	5° \mathbb{B} 34'51	
min. Earth dist.	10867 Apr 28 10:18	12° \mathbb{B} 56'53	0.68576 AU	evening set	10868 Apr 06 07:20	3° \mathbb{B} 39'48	
morning rise	10867 May 03 10:03	6° \mathbb{B} 55'14			10868 Apr 09 15:24	30° \mathbb{R} \mathbb{Y}	
direct	10867 May 08 10:07	4° \mathbb{B} 45'17		inferior conj	10868 Apr 11 16:01	27° \mathbb{Y} 14'50	2°31'02
morning max el	10867 May 18 08:23	10° \mathbb{B} 37'44	22°44'17	minimum elong	10868 Apr 11 13:54	27° \mathbb{Y} 22'12	2°30'17
desc. node	10867 May 20 12:59	12° \mathbb{B} 57'23		min. Earth dist.	10868 Apr 11 07:04	27° \mathbb{Y} 45'51	0.68657 AU
	10867 Jun 02 15:58	0° \mathbb{I}		morning rise	10868 Apr 16 20:20	21° \mathbb{Y} 07'03	
morning set	10867 Jun 21 10:40	28° \mathbb{I} 50'04		direct	10868 Apr 21 07:03	19° \mathbb{Y} 18'08	
	10867 Jun 22 03:37	0° \mathbb{E}		morning max el	10868 Apr 29 23:11	24° \mathbb{Y} 18'50	21°19'12
max. Earth dist.	10867 Jun 26 01:36	6° \mathbb{E} 34'24	1.40306 AU		10868 May 04 23:52	0° \mathbb{B}	
				desc. node	10868 May 06 09:49	1° \mathbb{B} 47'02	
superior conj	10867 Jul 03 20:52	20° \mathbb{E} 18'01	-1°24'07		10868 May 26 01:01	0° \mathbb{I}	
minimum elong	10867 Jul 04 02:33	20° \mathbb{E} 43'49	1°23'55	morning set	10868 May 31 06:57	8° \mathbb{I} 09'31	
	10867 Jul 09 02:50	0° \mathbb{Q}		max. Earth dist.	10868 Jun 07 04:28	19° \mathbb{I} 14'30	1.42451 AU
evening rise	10867 Jul 13 19:00	8° \mathbb{Q} 50'34			10868 Jun 13 14:50	0° \mathbb{E}	
asc. node	10867 Jul 13 17:39	8° \mathbb{Q} 44'11					
	10867 Jul 25 23:28	0° \mathbb{M}		superior conj	10868 Jun 14 13:16	1° \mathbb{E} 36'01	-1°52'30
evening max el	10867 Jul 29 19:15	4° \mathbb{M} 35'13	18°26'11	minimum elong	10868 Jun 14 19:43	2° \mathbb{E} 03'46	1°52'31
retrograde	10867 Aug 06 10:22	8° \mathbb{M} 25'01		evening rise	10868 Jun 25 21:52	21° \mathbb{E} 43'45	
evening set	10867 Aug 08 12:40	8° \mathbb{M} 08'29		asc. node	10868 Jun 29 14:37	28° \mathbb{E} 23'35	
inferior conj	10867 Aug 16 03:56	3° \mathbb{M} 35'29	0°05'56		10868 Jun 30 12:16	0° \mathbb{Q}	
minimum elong	10867 Aug 16 04:09	3° \mathbb{M} 35'05	0°05'32	evening max el	10868 Jul 12 06:06	17° \mathbb{Q} 28'12	18°06'38
transit middle	10867 Aug 16 04:09	3° \mathbb{M} 35'05	0°05'32	retrograde	10868 Jul 19 00:54	20° \mathbb{Q} 55'39	
transit begin	10867 Aug 16 00:48	3° \mathbb{M} 41'44		evening set	10868 Jul 21 11:00	20° \mathbb{Q} 29'32	
transit end	10867 Aug 16 07:29	3° \mathbb{M} 28'24		inferior conj	10868 Jul 28 07:59	15° \mathbb{Q} 35'50	1°27'15
desc. node	10867 Aug 16 11:42	3° \mathbb{M} 19'56		minimum elong	10868 Jul 28 10:24	15° \mathbb{Q} 30'13	1°25'59
min. Earth dist.	10867 Aug 19 11:49	0° \mathbb{M} 57'00	0.58073 AU	min. Earth dist.	10868 Jul 31 14:12	12° \mathbb{Q} 35'25	0.60305 AU
	10867 Aug 20 18:56	30° \mathbb{R} \mathbb{Q}		desc. node	10868 Aug 02 08:58	11° \mathbb{Q} 06'19	
morning rise	10867 Aug 23 16:05	28° \mathbb{Q} 13'50		morning rise	10868 Aug 04 06:54	9° \mathbb{Q} 45'19	
direct	10867 Aug 29 17:51	26° \mathbb{Q} 38'20		direct	10868 Aug 10 19:48	7° \mathbb{Q} 41'08	
	10867 Sep 07 23:13	0° \mathbb{M}		morning max el	10868 Aug 25 03:09	15° \mathbb{Q} 35'45	27°49'54
morning max el	10867 Sep 13 02:15	4° \mathbb{M} 17'22	27°06'28		10868 Sep 05 21:07	0° \mathbb{M}	

	10868 Sep 23 09:41	0°♄		morning set	10869 Sep 10 13:29	20°♄30'42	
asc. node	10868 Sep 25 15:08	4°♄30'31		asc. node	10869 Sep 12 11:55	24°♄29'19	
morning set	10868 Sep 26 14:29	6°♄31'30			10869 Sep 15 02:35	0°♄	
max. Earth dist.	10868 Oct 02 16:29	19°♄38'48	1.31520 AU	max. Earth dist.	10869 Sep 15 21:29	1°♄41'31	1.32082 AU
superior conj	10868 Oct 03 19:06	22°♄06'11	1°13'10	superior conj	10869 Sep 18 04:01	6°♄37'31	0°53'36
minimum elong	10868 Oct 03 16:52	21°♄53'51	1°13'01	minimum elong	10869 Sep 18 01:55	6°♄26'02	0°53'14
	10868 Oct 07 08:31	0°♄		evening rise	10869 Sep 24 23:37	21°♄31'30	
evening rise	10868 Oct 10 12:18	6°♄53'26			10869 Sep 29 00:52	0°♄	
	10868 Oct 22 10:20	0°♄		desc. node	10869 Oct 16 03:42	27°♄37'09	
desc. node	10868 Oct 29 06:25	10°♄31'56			10869 Oct 18 07:54	0°♄	
evening max el	10868 Nov 06 23:08	20°♄44'20	25°37'19	evening max el	10869 Oct 19 11:07	1°♄07'49	24°03'40
retrograde	10868 Nov 20 20:24	27°♄44'20		retrograde	10869 Nov 02 02:22	7°♄57'01	
evening set	10868 Nov 26 22:22	26°♄18'55		evening set	10869 Nov 06 23:48	7°♄04'32	
min. Earth dist.	10868 Dec 01 11:30	23°♄41'41	0.57657 AU	min. Earth dist.	10869 Nov 12 21:44	4°♄08'56	0.55933 AU
inferior conj	10868 Dec 04 10:48	21°♄38'24	-5°03'26	inferior conj	10869 Nov 15 02:46	2°♄48'16	-5°43'34
minimum elong	10868 Dec 04 18:24	21°♄25'11	5°01'17	minimum elong	10869 Nov 15 05:37	2°♄43'55	5°42'53
morning rise	10868 Dec 12 16:48	17°♄20'10			10869 Nov 20 04:46	30°♄	
direct	10868 Dec 14 22:51	17°♄04'32		morning rise	10869 Nov 23 13:27	28°♄50'48	
asc. node	10868 Dec 22 15:18	20°♄20'36		direct	10869 Nov 26 05:17	28°♄32'38	
morning max el	10868 Dec 23 16:53	21°♄18'49	18°51'45		10869 Dec 01 20:05	0°♄	
	10868 Dec 30 10:04	0°♄		morning max el	10869 Dec 06 09:44	3°♄22'48	19°55'41
morning set	10869 Jan 09 02:16	17°♄39'52		asc. node	10869 Dec 09 12:19	6°♄46'20	
	10869 Jan 15 09:36	0°♄			10869 Dec 23 04:21	0°♄	
				morning set	10869 Dec 24 07:04	2°♄15'03	
superior conj	10869 Jan 17 14:50	4°♄14'46	0°56'52	superior conj	10870 Jan 01 01:20	18°♄00'13	1°18'17
minimum elong	10869 Jan 17 17:52	4°♄29'10	0°56'58	minimum elong	10870 Jan 01 04:05	18°♄13'55	1°18'33
max. Earth dist.	10869 Jan 24 17:07	17°♄16'15	1.39333 AU	max. Earth dist.	10870 Jan 06 23:41	29°♄29'16	1.37139 AU
desc. node	10869 Jan 25 05:33	18°♄11'08			10870 Jan 07 06:15	0°♄	
evening rise	10869 Jan 28 14:56	24°♄03'26		evening rise	10870 Jan 10 17:22	6°♄20'40	
	10869 Feb 01 04:17	0°♄		desc. node	10870 Jan 12 02:25	8°♄47'42	
	10869 Feb 21 08:22	0°♄			10870 Jan 25 01:32	0°♄	
evening max el	10869 Mar 04 17:28	13°♄29'01	24°18'59	evening max el	10870 Feb 15 06:45	27°♄18'51	25°33'29
retrograde	10869 Mar 16 01:44	20°♄07'52			10870 Feb 18 05:42	0°♄	
asc. node	10869 Mar 20 13:26	18°♄35'29		retrograde	10870 Feb 27 13:55	4°♄24'01	
evening set	10869 Mar 21 11:55	17°♄51'39		evening set	10870 Mar 05 12:10	1°♄57'19	
min. Earth dist.	10869 Mar 26 03:05	12°♄33'05	0.68303 AU	asc. node	10870 Mar 07 10:42	0°♄04'49	
inferior conj	10869 Mar 27 00:07	11°♄22'21	1°55'50		10870 Mar 07 12:28	30°♄	
minimum elong	10869 Mar 26 21:59	11°♄29'31	1°55'06	min. Earth dist.	10870 Mar 09 20:14	27°♄13'47	0.67531 AU
morning rise	10869 Apr 01 08:08	5°♄21'52		inferior conj	10870 Mar 11 05:12	25°♄28'15	1°11'16
direct	10869 Apr 05 05:58	3°♄54'45		minimum elong	10870 Mar 11 03:35	25°♄33'25	1°10'46
morning max el	10869 Apr 12 21:08	8°♄11'50	20°05'06	morning rise	10870 Mar 16 19:29	19°♄36'30	
desc. node	10869 Apr 23 06:37	21°♄12'49		direct	10870 Mar 20 05:22	18°♄29'45	
	10869 Apr 29 07:49	0°♄		morning max el	10870 Mar 27 02:56	22°♄15'46	19°05'32
morning set	10869 May 10 08:20	16°♄41'19			10870 Apr 02 12:49	0°♄	
	10869 May 18 20:53	0°♄		greatest brilliancy	10870 Apr 09 07:55	9°♄51'46	-0.7m
max. Earth dist.	10869 May 20 14:43	2°♄46'20	1.44171 AU	desc. node	10870 Apr 10 03:22	11°♄05'09	
superior conj	10869 May 26 05:39	11°♄51'00	-2°10'18	morning set	10870 Apr 19 11:28	25°♄25'34	
minimum elong	10869 May 26 09:10	12°♄05'23	2°10'45		10870 Apr 22 10:19	0°♄	
	10869 Jun 06 01:43	0°♄		max. Earth dist.	10870 May 03 06:32	16°♄54'22	1.45281 AU
evening rise	10869 Jun 08 06:47	3°♄47'38		superior conj	10870 May 05 23:29	21°♄10'03	-2°11'00
asc. node	10869 Jun 16 11:38	17°♄44'32		minimum elong	10870 May 05 19:56	20°♄56'06	2°11'20
	10869 Jun 25 02:37	0°♄			10870 May 11 12:49	0°♄	
evening max el	10869 Jun 25 19:47	0°♄44'15	18°06'18	evening rise	10870 May 20 17:13	14°♄52'49	
retrograde	10869 Jul 02 05:23	4°♄04'35			10870 May 30 00:12	0°♄	
evening set	10869 Jul 04 23:21	3°♄26'09		asc. node	10870 Jun 03 08:41	6°♄40'08	
	10869 Jul 09 12:12	30°♄		evening max el	10870 Jun 09 09:01	14°♄14'45	18°24'22
inferior conj	10869 Jul 11 05:32	28°♄13'32	2°23'23	retrograde	10870 Jun 15 19:12	17°♄41'55	
minimum elong	10869 Jul 11 08:13	28°♄06'24	2°22'09	evening set	10870 Jun 18 21:04	16°♄49'20	
min. Earth dist.	10869 Jul 14 01:43	25°♄13'59	0.62550 AU	inferior conj	10870 Jun 24 16:24	11°♄19'48	2°57'42
morning rise	10869 Jul 17 15:08	22°♄04'23		minimum elong	10870 Jun 24 18:19	11°♄14'07	2°56'48
desc. node	10869 Jul 20 06:11	20°♄31'03		min. Earth dist.	10870 Jun 26 22:41	8°♄40'37	0.64589 AU
direct	10869 Jul 24 08:03	19°♄37'10		morning rise	10870 Jun 30 14:25	5°♄01'13	
morning max el	10869 Aug 07 10:06	27°♄39'27	27°54'46	direct	10870 Jul 07 05:00	2°♄20'22	
	10869 Aug 09 15:42	0°♄		desc. node	10870 Jul 07 03:21	2°♄20'23	
	10869 Aug 30 15:10	0°♄					

morning max el	10870 Jul 20 20:18	10°☿19'48	27°23'45	morning max el	10871 Jul 03 07:04	23°♂24'42	26°23'54
	10870 Aug 05 07:44	0°♂			10871 Jul 09 03:28	0°☿	
	10870 Aug 23 01:33	0°♂			10871 Jul 29 16:02	0°♂	
morning set	10870 Aug 25 03:45	4°♂02'26		morning set	10871 Aug 08 06:03	16°♂58'22	
max. Earth dist.	10870 Aug 29 18:37	13°♂20'40	1.33152 AU	max. Earth dist.	10871 Aug 12 05:17	24°♂35'00	1.34722 AU
asc. node	10870 Aug 30 08:41	14°♂33'32			10871 Aug 14 22:37	0°♂	
superior conj	10870 Sep 02 08:28	20°♂51'46	0°29'07	superior conj	10871 Aug 17 06:08	4°♂42'52	0°00'16
minimum elong	10870 Sep 02 07:05	20°♂44'23	0°28'41	minimum elong	10871 Aug 17 06:08	4°♂42'53	0°00'03
	10870 Sep 06 14:30	0°♂		behind sun begin	10871 Aug 17 00:27	4°♂13'40	
evening rise	10870 Sep 09 10:46	6°♂05'49		behind sun end	10871 Aug 17 11:48	5°♂12'08	
	10870 Sep 22 02:50	0°♂		asc. node	10871 Aug 17 05:28	4°♂39'28	
evening max el	10870 Sep 30 22:25	11°♂13'56	22°22'59	evening rise	10871 Aug 24 19:49	20°♂31'10	
desc. node	10870 Oct 03 01:00	13°♂08'10			10871 Aug 29 12:04	0°♂	
retrograde	10870 Oct 13 20:31	17°♂39'51		evening max el	10871 Sep 12 18:35	21°♂40'46	20°51'25
evening set	10870 Oct 17 06:16	17°♂14'14		desc. node	10871 Sep 19 22:17	26°♂35'28	
min. Earth dist.	10870 Oct 25 05:07	13°♂42'16	0.54844 AU	retrograde	10871 Sep 24 07:58	27°♂24'45	
inferior conj	10870 Oct 26 01:26	13°♂13'35	-5°35'31	evening set	10871 Sep 26 14:26	27°♂12'26	
minimum elong	10870 Oct 25 20:02	13°♂21'14	5°34'34	inferior conj	10871 Oct 05 17:26	23°♂17'08	-4°29'59
morning rise	10870 Nov 03 11:22	9°♂26'19		minimum elong	10871 Oct 05 07:31	23°♂31'15	4°27'08
direct	10870 Nov 06 18:43	9°♂01'43		min. Earth dist.	10871 Oct 06 13:01	22°♂49'13	0.54637 AU
morning max el	10870 Nov 18 12:53	14°♂35'04	21°21'53	morning rise	10871 Oct 14 00:38	19°♂21'13	
asc. node	10870 Nov 26 09:17	24°♂14'55		direct	10871 Oct 18 02:53	18°♂45'13	
	10870 Nov 29 22:12	0°♂		morning max el	10871 Oct 31 04:28	25°♂02'42	23°04'49
morning set	10870 Dec 08 16:10	16°♂59'23			10871 Nov 04 18:17	0°♂	
	10870 Dec 14 20:37	0°♂		asc. node	10871 Nov 13 06:11	12°♂32'03	
					10871 Nov 22 07:12	0°♂	
superior conj	10870 Dec 15 22:16	2°♂13'41	1°32'02	morning set	10871 Nov 23 03:28	1°♂47'03	
minimum elong	10870 Dec 16 00:04	2°♂23'02	1°32'29				
max. Earth dist.	10870 Dec 20 10:02	11°♂22'11	1.35147 AU	superior conj	10871 Nov 30 02:22	16°♂45'43	1°38'44
evening rise	10870 Dec 24 12:59	19°♂21'53		minimum elong	10871 Nov 30 02:59	16°♂49'03	1°39'17
desc. node	10870 Dec 29 23:21	29°♂15'25		max. Earth dist.	10871 Dec 03 04:03	23°♂16'45	1.33524 AU
	10870 Dec 30 09:32	0°♂			10871 Dec 06 10:31	0°♂	
	10871 Jan 19 03:30	0°♂		evening rise	10871 Dec 07 22:08	2°♂57'44	
evening max el	10871 Jan 28 20:09	11°♂04'18	26°35'13	desc. node	10871 Dec 16 20:19	19°♂29'14	
retrograde	10871 Feb 10 20:56	18°♂24'16			10871 Dec 23 05:56	0°♂	
evening set	10871 Feb 17 06:19	15°♂51'29		evening max el	10872 Jan 11 09:26	24°♂36'28	27°16'48
min. Earth dist.	10871 Feb 21 08:23	11°♂42'12	0.66360 AU		10872 Jan 18 07:50	0°♂	
asc. node	10871 Feb 22 07:57	10°♂32'09		retrograde	10872 Jan 24 21:48	2°♂00'05	
inferior conj	10871 Feb 23 05:14	9°♂28'16	0°17'20		10872 Jan 30 21:53	30°♂	
minimum elong	10871 Feb 23 04:46	9°♂29'41	0°17'24	evening set	10872 Jan 31 16:13	29°♂27'11	
morning rise	10871 Mar 01 04:14	3°♂47'06		min. Earth dist.	10872 Feb 04 13:22	25°♂50'37	0.64830 AU
direct	10871 Mar 04 03:33	2°♂57'49		inferior conj	10872 Feb 06 21:49	23°♂16'31	-0°45'47
morning max el	10871 Mar 10 15:16	6°♂25'26	18°22'14	minimum elong	10872 Feb 06 23:11	23°♂12'45	0°44'48
	10871 Mar 27 04:43	0°♂		asc. node	10872 Feb 09 05:11	20°♂51'08	
desc. node	10871 Mar 28 00:05	1°♂17'01		morning rise	10872 Feb 13 07:48	17°♂48'14	
morning set	10871 Mar 30 13:14	5°♂20'25		direct	10872 Feb 15 22:15	17°♂12'48	
				morning max el	10872 Feb 22 07:41	20°♂33'18	17°55'50
superior conj	10871 Apr 15 06:01	0°♂06'24	-1°51'23		10872 Feb 29 13:48	0°♂	
minimum elong	10871 Apr 14 20:55	29°♂30'49	1°50'54	morning set	10872 Mar 10 20:14	16°♂41'51	
	10871 Apr 15 04:23	0°♂		desc. node	10872 Mar 13 20:48	21°♂42'26	
max. Earth dist.	10871 Apr 16 01:23	1°♂22'03	1.45678 AU		10872 Mar 18 22:12	0°♂	
evening rise	10871 May 01 03:44	24°♂59'59					
	10871 May 04 08:05	0°♂		superior conj	10872 Mar 24 19:19	9°♂27'32	-1°15'43
greatest brilliancy	10871 May 11 07:08	10°♂52'00	-0.8m	minimum elong	10872 Mar 24 11:12	8°♂55'14	1°14'46
asc. node	10871 May 21 05:48	25°♂02'08		max. Earth dist.	10872 Mar 28 21:05	15°♂54'21	1.45333 AU
evening max el	10871 May 23 19:18	27°♂53'45	18°59'59		10872 Apr 06 22:24	0°♂	
	10871 May 26 05:23	0°♂		evening rise	10872 Apr 09 20:04	4°♂28'04	
retrograde	10871 May 30 14:35	1°♂40'21		greatest brilliancy	10872 Apr 24 08:23	26°♂23'48	-0.6m
evening set	10871 Jun 03 00:44	0°♂32'30			10872 Apr 26 20:17	0°♂	
	10871 Jun 03 18:41	30°♂		evening max el	10872 May 06 00:45	11°♂36'16	19°51'44
inferior conj	10871 Jun 08 12:52	24°♂47'40	3°14'19	asc. node	10872 May 07 02:57	12°♂39'16	
minimum elong	10871 Jun 08 13:39	24°♂45'08	3°13'41	retrograde	10872 May 13 12:41	15°♂53'25	
min. Earth dist.	10871 Jun 10 04:13	22°♂42'35	0.66279 AU	evening set	10872 May 17 07:48	14°♂29'40	
morning rise	10871 Jun 14 01:58	18°♂26'18		inferior conj	10872 May 22 15:52	8°♂30'55	3°16'38
direct	10871 Jun 20 09:15	15°♂42'49		minimum elong	10872 May 22 15:31	8°♂32'04	3°16'06
desc. node	10871 Jun 24 00:26	16°♂28'31		min. Earth dist.	10872 May 23 16:33	7°♂08'00	0.67540 AU

morning rise	10872 May 27 22:55	2° Π 10'55		inferior conj	10873 May 06 22:56	22° \mathcal{B} 25'53	3°07'03
	10872 May 31 09:53	30° \mathcal{R} \mathcal{B}		minimum elong	10873 May 06 21:39	22° \mathcal{B} 30'19	3°06'27
direct	10872 Jun 02 19:28	29° \mathcal{B} 34'57		min. Earth dist.	10873 May 07 09:50	21° \mathcal{B} 48'08	0.68339 AU
	10872 Jun 05 08:23	0° Π		morning rise	10873 May 12 02:47	16° \mathcal{B} 09'34	
desc. node	10872 Jun 09 21:27	2° Π 27'35		direct	10873 May 17 10:35	13° \mathcal{B} 48'48	
morning max el	10872 Jun 14 16:54	6° Π 43'06	25°04'33	desc. node	10873 May 27 18:25	19° \mathcal{B} 49'52	
	10872 Jul 02 18:51	0° \mathcal{E}		morning max el	10873 May 28 02:35	20° \mathcal{B} 10'19	23°35'47
morning set	10872 Jul 20 16:08	29° \mathcal{E} 07'00			10873 Jun 05 11:44	0° Π	
	10872 Jul 21 03:59	0° \mathcal{Q}			10873 Jun 25 23:27	0° \mathcal{E}	
max. Earth dist.	10872 Jul 24 06:20	5° \mathcal{Q} 38'41	1.36726 AU	morning set	10873 Jul 02 05:04	10° \mathcal{E} 16'20	
				max. Earth dist.	10873 Jul 06 03:28	17° \mathcal{E} 02'53	1.38993 AU
					10873 Jul 13 07:12	0° \mathcal{Q}	
superior conj	10872 Jul 30 18:00	18° \mathcal{Q} 02'53	-0°31'54	superior conj	10873 Jul 13 16:27	0° \mathcal{Q} 43'12	-1°05'25
minimum elong	10872 Jul 30 20:02	18° \mathcal{Q} 12'57	0°31'57	minimum elong	10873 Jul 13 20:54	1° \mathcal{Q} 04'02	1°05'14
asc. node	10872 Aug 03 02:17	24° \mathcal{Q} 42'56		asc. node	10873 Jul 20 23:09	14° \mathcal{Q} 40'21	
	10872 Aug 05 16:59	0° \mathcal{M}		evening rise	10873 Jul 22 22:04	18° \mathcal{Q} 28'40	
evening rise	10872 Aug 08 00:29	4° \mathcal{M} 41'03			10873 Jul 28 23:59	0° \mathcal{M}	
	10872 Aug 22 15:20	0° \mathcal{A}		evening max el	10873 Aug 08 02:45	14° \mathcal{M} 45'45	18°46'24
evening max el	10872 Aug 25 04:22	2° \mathcal{A} 50'22	19°38'19	retrograde	10873 Aug 16 10:39	18° \mathcal{M} 55'35	
retrograde	10872 Sep 04 01:00	7° \mathcal{A} 44'18		evening set	10873 Aug 18 09:15	18° \mathcal{M} 42'50	
evening set	10872 Sep 05 21:34	7° \mathcal{A} 34'39		desc. node	10873 Aug 23 16:54	16° \mathcal{M} 17'29	
desc. node	10872 Sep 05 19:35	7° \mathcal{A} 35'29		inferior conj	10873 Aug 26 11:38	14° \mathcal{M} 21'09	-0°51'55
inferior conj	10872 Sep 14 17:12	3° \mathcal{A} 30'59	-2°44'29	minimum elong	10873 Aug 26 09:29	14° \mathcal{M} 25'04	0°51'17
minimum elong	10872 Sep 14 09:54	3° \mathcal{A} 42'27	2°41'48	min. Earth dist.	10873 Aug 29 14:26	12° \mathcal{M} 05'27	0.56920 AU
min. Earth dist.	10872 Sep 16 23:23	2° \mathcal{A} 06'07	0.55373 AU	morning rise	10873 Sep 03 06:23	9° \mathcal{M} 20'15	
	10872 Sep 20 18:02	30° \mathcal{R} \mathcal{M}		direct	10873 Sep 08 22:49	8° \mathcal{M} 01'50	
morning rise	10872 Sep 22 20:13	29° \mathcal{M} 07'35		morning max el	10873 Sep 23 05:32	15° \mathcal{M} 27'02	26°25'28
direct	10872 Sep 27 18:12	28° \mathcal{M} 13'57			10873 Oct 04 23:46	0° \mathcal{A}	
	10872 Oct 04 14:53	0° \mathcal{A}		asc. node	10873 Oct 16 23:52	20° \mathcal{A} 46'25	
morning max el	10872 Oct 11 15:26	5° \mathcal{A} 09'18	24°51'54		10873 Oct 21 12:05	0° \mathcal{M}	
	10872 Oct 29 08:26	0° \mathcal{M}		morning set	10873 Oct 22 01:48	1° \mathcal{M} 12'53	
asc. node	10872 Oct 30 03:02	1° \mathcal{M} 25'57					
morning set	10872 Nov 06 15:15	16° \mathcal{M} 33'29		superior conj	10873 Oct 28 22:14	16° \mathcal{M} 15'46	1°33'20
	10872 Nov 12 18:54	0° \mathcal{X}		minimum elong	10873 Oct 28 20:46	16° \mathcal{M} 07'39	1°33'38
superior conj	10872 Nov 13 11:05	1° \mathcal{X} 28'53	1°39'00	max. Earth dist.	10873 Oct 29 13:27	17° \mathcal{M} 40'21	1.31635 AU
minimum elong	10872 Nov 13 10:33	1° \mathcal{X} 26'01	1°39'30		10873 Nov 04 05:04	0° \mathcal{X}	
max. Earth dist.	10872 Nov 15 06:04	5° \mathcal{X} 23'51	1.32344 AU	evening rise	10873 Nov 04 20:05	1° \mathcal{X} 19'22	
evening rise	10872 Nov 20 17:28	16° \mathcal{X} 59'48		desc. node	10873 Nov 19 14:28	28° \mathcal{X} 47'21	
	10872 Nov 27 09:33	0° \mathcal{Z}			10873 Nov 20 08:46	0° \mathcal{Z}	
desc. node	10872 Dec 02 17:21	9° \mathcal{Z} 22'56		evening max el	10873 Dec 06 03:49	20° \mathcal{Z} 10'19	27°13'24
	10872 Dec 16 20:01	0° \mathcal{A}		retrograde	10873 Dec 20 01:16	27° \mathcal{Z} 23'08	
evening max el	10872 Dec 23 20:53	7° \mathcal{A} 43'21	27°31'17	evening set	10873 Dec 27 00:15	25° \mathcal{Z} 13'41	
retrograde	10873 Jan 06 15:32	15° \mathcal{A} 03'02		min. Earth dist.	10873 Dec 30 18:19	22° \mathcal{Z} 28'53	0.60942 AU
evening set	10873 Jan 13 15:20	12° \mathcal{A} 37'30		inferior conj	10874 Jan 02 21:00	19° \mathcal{Z} 47'54	-3°12'55
min. Earth dist.	10873 Jan 17 09:11	9° \mathcal{A} 30'18	0.62996 AU	minimum elong	10874 Jan 03 03:30	19° \mathcal{Z} 33'51	3°10'00
inferior conj	10873 Jan 20 04:12	6° \mathcal{A} 46'18	-1°56'52	morning rise	10874 Jan 10 09:25	14° \mathcal{Z} 55'03	
minimum elong	10873 Jan 20 08:02	6° \mathcal{A} 36'51	1°54'48	direct	10874 Jan 12 13:00	14° \mathcal{Z} 36'11	
asc. node	10873 Jan 26 02:23	2° \mathcal{A} 00'39		asc. node	10874 Jan 12 23:33	14° \mathcal{Z} 37'00	
morning rise	10873 Jan 27 03:00	1° \mathcal{A} 34'01		morning max el	10874 Jan 19 16:47	18° \mathcal{Z} 11'41	17°56'12
direct	10873 Jan 29 10:41	1° \mathcal{A} 08'39			10874 Jan 28 04:31	0° \mathcal{A}	
morning max el	10873 Feb 05 01:17	4° \mathcal{A} 31'54	17°46'52	morning set	10874 Feb 04 07:30	12° \mathcal{A} 42'57	
morning set	10873 Feb 21 04:31	29° \mathcal{A} 16'25			10874 Feb 13 21:37	0° \mathcal{X}	
	10873 Feb 21 14:31	0° \mathcal{X}		superior conj	10874 Feb 14 16:47	1° \mathcal{X} 23'46	0°06'52
desc. node	10873 Feb 28 17:31	12° \mathcal{X} 17'14		minimum elong	10874 Feb 14 17:24	1° \mathcal{X} 26'26	0°07'07
superior conj	10873 Mar 05 05:35	19° \mathcal{X} 50'26	-0°33'31	behind sun begin	10874 Feb 14 10:02	0° \mathcal{X} 54'18	
minimum elong	10873 Mar 05 02:09	19° \mathcal{X} 36'11	0°32'51	behind sun end	10874 Feb 15 00:46	1° \mathcal{X} 58'30	
	10873 Mar 11 11:18	0° \mathcal{Y}		desc. node	10874 Feb 15 14:14	2° \mathcal{X} 56'56	
max. Earth dist.	10873 Mar 11 15:13	0° \mathcal{Y} 15'40	1.44285 AU	max. Earth dist.	10874 Feb 22 05:14	14° \mathcal{X} 08'27	1.42643 AU
evening rise	10873 Mar 20 07:53	13° \mathcal{Y} 54'08		evening rise	10874 Feb 28 05:55	23° \mathcal{X} 52'21	
	10873 Mar 30 23:57	0° \mathcal{B}			10874 Mar 04 04:04	0° \mathcal{Y}	
evening max el	10873 Apr 19 00:36	25° \mathcal{B} 20'20	20°57'13		10874 Mar 25 01:06	0° \mathcal{B}	
asc. node	10873 Apr 24 00:09	29° \mathcal{B} 18'22		evening max el	10874 Apr 01 19:12	9° \mathcal{B} 05'03	22°12'45
	10873 Apr 25 15:57	0° Π		asc. node	10874 Apr 10 21:25	14° \mathcal{B} 43'21	
retrograde	10873 Apr 27 11:22	0° Π 16'36		retrograde	10874 Apr 11 08:52	14° \mathcal{B} 44'27	
	10873 Apr 29 05:06	30° \mathcal{R} \mathcal{B}		evening set	10874 Apr 16 00:33	12° \mathcal{B} 49'26	
evening set	10873 May 01 16:18	28° \mathcal{B} 36'54					

inferior conj	10874 Apr 21 07:55	6°♄28'28	2°47'00	retrograde	10875 Mar 26 03:44	29°♄11'55	
minimum elong	10874 Apr 21 06:00	6°♄35'10	2°46'17	asc. node	10875 Mar 28 18:43	28°♄39'17	
min. Earth dist.	10874 Apr 21 05:57	6°♄35'21	0.68669 AU	evening set	10875 Mar 31 06:55	27°♄02'55	
morning rise	10874 Apr 26 11:19	0°♄17'15		min. Earth dist.	10875 Apr 05 02:44	21°♄23'55	0.68557 AU
	10874 Apr 26 19:40	30°♄♄		inferior conj	10875 Apr 05 16:54	20°♄35'18	2°17'15
direct	10874 May 01 05:36	28°♄16'18		minimum elong	10875 Apr 05 14:42	20°♄42'48	2°16'29
	10874 May 06 03:25	0°♄		morning rise	10875 Apr 10 22:28	14°♄30'22	
morning max el	10874 May 10 14:43	3°♄46'03	22°07'04	direct	10875 Apr 15 03:29	12°♄50'58	
desc. node	10874 May 14 15:18	8°♄12'27		morning max el	10875 Apr 23 08:25	17°♄32'14	20°45'58
	10874 May 30 13:45	0°♄		desc. node	10875 May 01 12:06	27°♄18'41	
morning set	10874 Jun 12 16:28	20°♄16'19			10875 May 03 11:29	0°♄	
max. Earth dist.	10874 Jun 18 03:06	29°♄12'47	1.41254 AU	morning set	10875 May 23 02:57	29°♄10'10	
	10874 Jun 18 14:22	0°♄			10875 May 23 15:45	0°♄	
				max. Earth dist.	10875 May 31 08:41	12°♄14'10	1.43242 AU
superior conj	10874 Jun 25 21:06	12°♄33'54	-1°37'02				
minimum elong	10874 Jun 26 03:25	13°♄01'56	1°36'53	superior conj	10875 Jun 07 03:29	23°♄24'54	-2°01'45
	10874 Jul 05 10:26	0°♄		minimum elong	10875 Jun 07 09:16	23°♄49'13	2°01'58
evening rise	10874 Jul 06 09:02	1°♄45'08			10875 Jun 11 00:33	0°♄	
asc. node	10874 Jul 07 20:04	4°♄27'49		evening rise	10875 Jun 19 04:53	14°♄18'30	
evening max el	10874 Jul 22 10:12	27°♄20'33	18°15'25	asc. node	10875 Jun 24 17:03	23°♄59'57	
	10874 Jul 25 21:38	0°♄			10875 Jun 28 06:37	0°♄	
retrograde	10874 Jul 29 15:27	0°♄59'24		evening max el	10875 Jul 05 22:40	10°♄24'15	18°04'13
evening set	10874 Jul 31 20:51	0°♄39'18		retrograde	10875 Jul 12 12:26	13°♄47'00	
	10874 Aug 02 12:35	30°♄♄		evening set	10875 Jul 15 01:46	13°♄16'04	
inferior conj	10874 Aug 08 04:00	25°♄57'13	0°43'35	inferior conj	10875 Jul 21 16:01	8°♄14'22	1°53'57
minimum elong	10874 Aug 08 05:25	25°♄54'10	0°42'41	minimum elong	10875 Jul 21 18:43	8°♄07'40	1°52'38
desc. node	10874 Aug 10 14:12	23°♄52'29		min. Earth dist.	10875 Jul 24 18:49	5°♄11'17	0.61270 AU
min. Earth dist.	10874 Aug 11 12:26	23°♄06'32	0.58993 AU	morning rise	10875 Jul 28 09:06	2°♄14'27	
morning rise	10874 Aug 15 10:37	20°♄21'42		desc. node	10875 Jul 28 11:28	2°♄10'30	
direct	10874 Aug 21 17:41	18°♄33'52			10875 Aug 03 11:41	30°♄♄	
morning max el	10874 Sep 05 02:39	26°♄21'02	27°29'46	direct	10875 Aug 04 00:36	29°♄59'09	
	10874 Sep 08 13:19	0°♄			10875 Aug 04 13:36	0°♄	
	10874 Sep 28 11:47	0°♄		morning max el	10875 Aug 18 06:25	7°♄59'06	27°56'36
asc. node	10874 Oct 03 20:40	10°♄26'17			10875 Sep 04 02:26	0°♄	
morning set	10874 Oct 06 09:24	15°♄40'51		morning set	10875 Sep 20 12:07	29°♄51'38	
	10874 Oct 12 23:02	0°♄		asc. node	10875 Sep 20 17:27	0°♄19'12	
					10875 Sep 20 13:44	0°♄	
superior conj	10874 Oct 13 09:59	1°♄00'57	1°22'05	max. Earth dist.	10875 Sep 26 06:13	12°♄08'20	1.31692 AU
minimum elong	10874 Oct 13 07:55	0°♄49'27	1°22'06				
max. Earth dist.	10874 Oct 12 22:48	29°♄58'44	1.31415 AU	superior conj	10875 Sep 27 20:27	15°♄38'32	1°05'30
evening rise	10874 Oct 20 03:41	15°♄50'24		minimum elong	10875 Sep 27 18:13	15°♄26'11	1°05'14
	10874 Oct 27 03:16	0°♄			10875 Oct 04 09:10	0°♄	
desc. node	10874 Nov 06 11:40	17°♄30'57		evening rise	10875 Oct 04 14:09	0°♄26'50	
	10874 Nov 16 08:22	0°♄			10875 Oct 20 13:47	0°♄	
evening max el	10874 Nov 18 03:35	1°♄47'14	26°21'18	desc. node	10875 Oct 24 08:55	5°♄17'36	
retrograde	10874 Dec 02 01:53	8°♄52'51		evening max el	10875 Oct 30 19:14	12°♄33'27	24°59'31
evening set	10874 Dec 08 14:47	7°♄08'58		retrograde	10875 Nov 13 15:21	19°♄30'15	
min. Earth dist.	10874 Dec 12 16:57	4°♄33'51	0.58816 AU	evening set	10875 Nov 19 06:19	18°♄19'06	
inferior conj	10874 Dec 15 20:40	2°♄11'46	-4°26'51	min. Earth dist.	10875 Nov 24 07:05	15°♄36'07	0.56857 AU
minimum elong	10874 Dec 16 04:45	1°♄56'33	4°24'02	inferior conj	10875 Nov 27 00:20	13°♄49'27	-5°25'07
	10874 Dec 18 22:25	30°♄♄		minimum elong	10875 Nov 27 06:35	13°♄39'12	5°23'37
morning rise	10874 Dec 23 21:24	27°♄40'55		morning rise	10875 Dec 05 09:07	9°♄40'36	
direct	10874 Dec 26 00:47	27°♄25'13		direct	10875 Dec 07 18:14	9°♄24'29	
asc. node	10874 Dec 30 20:40	28°♄50'04		morning max el	10875 Dec 17 02:30	13°♄53'31	19°16'11
	10875 Jan 01 13:06	0°♄		asc. node	10875 Dec 17 17:43	14°♄31'16	
morning max el	10875 Jan 03 02:30	1°♄22'38	18°25'21		10875 Dec 28 05:49	0°♄	
morning set	10875 Jan 18 23:40	26°♄45'07		morning set	10876 Jan 03 00:48	11°♄10'44	
	10875 Jan 20 16:19	0°♄					
superior conj	10875 Jan 28 02:08	13°♄59'03	0°40'51	superior conj	10876 Jan 11 04:47	27°♄22'21	1°06'55
minimum elong	10875 Jan 28 04:48	14°♄11'17	0°40'55	minimum elong	10876 Jan 11 07:49	27°♄37'02	1°07'04
desc. node	10875 Feb 02 11:01	23°♄38'16			10876 Jan 12 13:29	0°♄	
max. Earth dist.	10875 Feb 04 14:10	27°♄20'20	1.40596 AU	max. Earth dist.	10876 Jan 17 20:11	9°♄50'51	1.38384 AU
	10875 Feb 06 03:35	0°♄		desc. node	10876 Jan 20 07:51	14°♄17'44	
evening rise	10875 Feb 08 23:25	4°♄43'42		evening rise	10876 Jan 21 14:25	16°♄31'35	
	10875 Feb 25 08:55	0°♄			10876 Jan 29 16:34	0°♄	
evening max el	10875 Mar 15 10:12	22°♄51'58	23°33'06		10876 Feb 19 21:48	0°♄	
				evening max el	10876 Feb 25 23:48	6°♄42'20	24°51'50

retrograde	10876 Mar 08 18:40	13° Υ 34'07		retrograde	10877 Feb 20 04:37	27° X 44'04	
evening set	10876 Mar 14 09:52	11° Υ 13'16		evening set	10877 Feb 26 07:43	25° X 14'27	
asc. node	10876 Mar 14 15:58	11° Υ 00'02		asc. node	10877 Mar 01 13:13	21° X 57'39	
min. Earth dist.	10876 Mar 18 21:55	6° Υ 09'22	0.68021 AU	min. Earth dist.	10877 Mar 02 13:13	20° X 45'29	0.67080 AU
inferior conj	10876 Mar 19 23:58	4° Υ 43'18	1°38'07	inferior conj	10877 Mar 04 03:09	18° X 47'19	0°49'34
minimum elong	10876 Mar 19 21:59	4° Υ 49'51	1°37'27	minimum elong	10877 Mar 04 01:57	18° X 51'06	0°49'17
	10876 Mar 23 23:03	30° R X		morning rise	10877 Mar 09 20:50	12° X 59'37	
morning rise	10876 Mar 25 10:20	28° X 46'03		direct	10877 Mar 13 02:09	12° X 00'30	
direct	10876 Mar 29 02:54	27° X 27'48		morning max el	10877 Mar 19 18:25	15° X 37'01	18°45'05
	10876 Apr 03 17:55	0° Υ			10877 Mar 30 16:14	0° Υ	
morning max el	10876 Apr 05 09:42	1° Υ 30'21	19°37'46	desc. node	10877 Apr 04 05:35	6° Υ 58'25	
desc. node	10876 Apr 17 08:52	16° Υ 57'05		morning set	10877 Apr 10 13:07	16° Υ 48'35	
greatest brilliancy	10876 Apr 18 02:50	18° Υ 02'43	-0.6m		10877 Apr 18 23:48	0° B	
	10876 Apr 26 02:11	0° B		max. Earth dist.	10877 Apr 25 15:02	10° B 22'07	1.45551 AU
morning set	10876 May 01 02:06	7° B 38'48					
max. Earth dist.	10876 May 12 21:11	26° B 02'09	1.44730 AU	superior conj	10877 Apr 26 20:50	12° B 18'49	-2°05'05
	10876 May 15 09:04	0° II		minimum elong	10877 Apr 26 14:17	11° B 53'10	2°05'07
					10877 May 08 01:27	0° II	
superior conj	10876 May 17 09:44	3° II 14'45	-2°13'01	evening rise	10877 May 12 04:48	6° II 37'37	
minimum elong	10876 May 17 10:35	3° II 18'08	2°13'31	greatest brilliancy	10877 May 18 20:45	17° II 19'33	-0.9m
evening rise	10876 May 31 04:43	25° II 58'05			10877 May 27 02:40	0° B	
	10876 Jun 02 14:10	0° B		asc. node	10877 May 28 11:10	1° B 53'23	
asc. node	10876 Jun 10 14:05	13° B 11'02		evening max el	10877 Jun 02 00:54	7° B 22'44	18°37'24
evening max el	10876 Jun 18 12:36	23° B 47'42	18°11'47	retrograde	10877 Jun 08 13:46	10° B 56'16	
retrograde	10876 Jun 24 21:13	27° B 08'58		evening set	10877 Jun 11 19:13	9° B 57'07	
evening set	10876 Jun 27 18:36	26° B 24'39		inferior conj	10877 Jun 17 11:03	4° B 20'48	3°06'40
inferior conj	10876 Jul 03 19:42	21° B 04'51	2°40'18	minimum elong	10877 Jun 17 12:31	4° B 16'19	3°05'54
minimum elong	10876 Jul 03 22:09	20° B 58'03	2°39'13	min. Earth dist.	10877 Jun 19 10:57	1° B 55'05	0.65366 AU
min. Earth dist.	10876 Jul 06 10:21	18° B 11'48	0.63463 AU		10877 Jun 21 03:26	30° R II	
morning rise	10876 Jul 10 00:08	14° B 50'56		morning rise	10877 Jun 23 04:59	28° II 00'39	
desc. node	10876 Jul 14 08:39	12° B 34'41		direct	10877 Jun 29 17:02	25° II 17'34	
direct	10876 Jul 16 16:57	12° B 16'19		desc. node	10877 Jul 01 05:45	25° II 25'37	
morning max el	10876 Jul 30 14:50	20° B 18'36	27°45'26		10877 Jul 09 15:36	0° B	
	10876 Aug 07 22:27	0° Ω		morning max el	10877 Jul 13 01:28	3° B 10'26	27°01'15
	10876 Aug 27 03:41	0° M			10877 Aug 02 06:36	0° Ω	
morning set	10876 Sep 03 07:41	13° M 39'20		morning set	10877 Aug 17 17:19	26° Ω 56'51	
asc. node	10876 Sep 06 14:14	20° M 20'29			10877 Aug 19 07:01	0° M	
max. Earth dist.	10876 Sep 08 08:04	24° M 00'19	1.32477 AU	max. Earth dist.	10877 Aug 22 01:05	5° M 29'11	1.33766 AU
				asc. node	10877 Aug 24 11:01	10° M 25'59	
superior conj	10876 Sep 11 03:43	0° Ω 02'59	0°43'48				
minimum elong	10876 Sep 11 01:50	29° M 52'50	0°43'22	superior conj	10877 Aug 26 05:37	14° M 08'24	0°17'22
	10876 Sep 11 03:10	0° Ω		minimum elong	10877 Aug 26 04:44	14° M 03'46	0°16'58
evening rise	10876 Sep 18 01:36	15° Ω 03'29		evening rise	10877 Sep 02 12:08	29° M 35'04	
	10876 Sep 25 10:46	0° M			10877 Sep 02 16:52	0° Ω	
desc. node	10876 Oct 10 06:12	21° M 45'45			10877 Sep 20 03:06	0° M	
evening max el	10876 Oct 11 05:58	22° M 45'12	23°20'40	evening max el	10877 Sep 22 20:05	2° M 56'16	21°42'09
retrograde	10876 Oct 24 15:40	29° M 25'54		desc. node	10877 Sep 27 03:29	6° M 28'11	
evening set	10876 Oct 28 21:56	28° M 46'28		retrograde	10877 Oct 05 05:33	9° M 06'03	
min. Earth dist.	10876 Nov 04 15:44	25° M 37'20	0.55373 AU	evening set	10877 Oct 08 02:06	8° M 47'35	
inferior conj	10876 Nov 06 08:06	24° M 38'23	-5°47'08	inferior conj	10877 Oct 17 02:17	4° M 50'48	-5°14'21
minimum elong	10876 Nov 06 07:31	24° M 39'14	5°46'41	minimum elong	10877 Oct 16 18:04	5° M 02'17	5°12'34
morning rise	10876 Nov 14 18:52	20° M 46'43		min. Earth dist.	10877 Oct 16 22:39	4° M 55'52	0.54641 AU
direct	10876 Nov 17 16:52	20° M 26'10		morning rise	10877 Oct 25 11:11	1° M 02'52	
morning max el	10876 Nov 28 13:25	25° M 34'34	20°29'51	direct	10877 Oct 29 02:37	0° M 33'59	
	10876 Dec 02 12:51	0° X		morning max el	10877 Nov 10 10:58	6° M 25'45	22°04'16
asc. node	10876 Dec 03 14:42	1° X 25'05		asc. node	10877 Nov 20 11:38	19° M 16'05	
morning set	10876 Dec 17 07:41	25° X 50'10			10877 Nov 26 12:28	0° X	
	10876 Dec 19 08:03	0° B		morning set	10877 Dec 01 17:59	10° X 36'59	
superior conj	10876 Dec 24 20:05	11° B 20'12	1°25'01	superior conj	10877 Dec 08 20:25	25° X 42'39	1°35'41
minimum elong	10876 Dec 24 22:29	11° B 32'23	1°25'22	minimum elong	10877 Dec 08 21:44	25° X 49'33	1°36'12
max. Earth dist.	10876 Dec 30 03:55	21° B 52'55	1.36253 AU		10877 Dec 10 21:37	0° B	
evening rise	10877 Jan 03 00:34	29° B 08'21		max. Earth dist.	10877 Dec 12 17:39	3° B 46'14	1.34406 AU
	10877 Jan 03 11:52	0° \approx		evening rise	10877 Dec 17 02:23	12° B 25'21	
desc. node	10877 Jan 06 04:44	4° \approx 50'50		desc. node	10877 Dec 24 01:41	25° B 13'25	
	10877 Jan 21 22:49	0° X			10877 Dec 26 20:41	0° \approx	
evening max el	10877 Feb 07 13:19	20° X 31'51	26°01'52		10878 Jan 17 02:01	0° X	

evening max el	10878 Jan 21 02:49	4° H 12'50	26°55'45	max. Earth dist.	10878 Nov 25 15:09	15° Z 44'58	1.32961 AU
retrograde	10878 Feb 03 08:51	11° H 34'52		evening rise	10878 Nov 30 16:13	26° Z 12'46	
evening set	10878 Feb 09 22:36	9° H 01'08			10878 Dec 02 14:04	0° Z	
min. Earth dist.	10878 Feb 13 22:27	5° H 06'16	0.65756 AU	desc. node	10878 Dec 10 22:43	15° Z 19'18	
inferior conj	10878 Feb 16 00:18	2° H 42'44	-0°08'19		10878 Dec 20 05:44	0° \approx	
minimum elong	10878 Feb 16 00:32	2° H 42'05	0°07'54	evening max el	10879 Jan 03 15:19	17° \approx 34'34	27°26'33
transit middle	10878 Feb 16 00:32	2° H 42'05	0°07'54	retrograde	10879 Jan 17 06:52	24° \approx 57'43	
transit begin	10878 Feb 15 21:57	2° H 49'32		evening set	10879 Jan 24 04:16	22° \approx 26'34	
transit end	10878 Feb 16 03:07	2° H 34'38		min. Earth dist.	10879 Jan 27 23:35	19° \approx 03'24	0.64082 AU
asc. node	10878 Feb 16 10:26	2° H 13'35		inferior conj	10879 Jan 30 12:53	16° \approx 23'22	-1°15'04
	10878 Feb 18 11:25	30° R \approx		minimum elong	10879 Jan 30 15:15	16° \approx 17'11	1°13'39
morning rise	10878 Feb 22 03:44	27° \approx 06'49		asc. node	10879 Feb 03 07:40	12° \approx 47'03	
direct	10878 Feb 24 23:09	26° \approx 23'47		morning rise	10879 Feb 06 04:11	11° \approx 01'51	
morning max el	10878 Mar 03 08:49	29° \approx 46'41	18°08'58	direct	10879 Feb 08 15:27	10° \approx 31'14	
	10878 Mar 03 14:11	0° H		morning max el	10879 Feb 15 02:11	13° \approx 51'39	17°49'55
morning set	10878 Mar 22 03:20	27° H 20'37			10879 Feb 26 10:12	0° H	
desc. node	10878 Mar 22 02:18	27° H 16'27		morning set	10879 Mar 03 21:47	9° H 14'58	
	10878 Mar 23 18:44	0° Y		desc. node	10879 Mar 08 23:02	17° H 46'12	
					10879 Mar 16 09:12	0° Y	
superior conj	10878 Apr 06 03:55	21° Y 19'15	-1°37'41				
minimum elong	10878 Apr 05 18:27	20° Y 42'05	1°36'55	superior conj	10879 Mar 17 01:01	1° Y 04'00	-0°58'03
max. Earth dist.	10878 Apr 08 11:01	24° Y 55'17	1.45626 AU	minimum elong	10879 Mar 16 18:45	0° Y 38'41	0°57'10
	10878 Apr 11 17:03	0° B		max. Earth dist.	10879 Mar 22 06:08	9° Y 23'58	1.44960 AU
evening rise	10878 Apr 22 06:26	16° B 24'55		evening rise	10879 Apr 01 18:51	25° Y 46'55	
	10878 May 01 01:22	0° II			10879 Apr 04 13:06	0° B	
greatest brilliancy	10878 May 04 10:35	5° II 08'25	-0.7m		10879 Apr 25 08:00	0° II	
asc. node	10878 May 15 08:17	19° II 57'41		evening max el	10879 Apr 29 12:17	4° II 46'35	20°18'04
evening max el	10878 May 16 09:15	21° II 03'24	19°20'03	asc. node	10879 May 02 05:27	7° II 12'11	
retrograde	10878 May 23 10:43	25° II 01'51		retrograde	10879 May 07 09:28	9° II 20'07	
evening set	10878 May 27 00:37	23° II 47'07		evening set	10879 May 11 08:33	7° II 49'39	
inferior conj	10878 Jun 01 10:39	17° II 55'54	3°16'54	inferior conj	10879 May 16 15:42	1° II 45'16	3°13'57
minimum elong	10878 Jun 01 10:57	17° II 54'55	3°16'19	minimum elong	10879 May 16 14:56	1° II 47'53	3°13'23
min. Earth dist.	10878 Jun 02 19:34	16° II 08'23	0.66872 AU	min. Earth dist.	10879 May 17 10:25	0° II 41'21	0.67929 AU
morning rise	10878 Jun 06 20:50	11° II 34'41			10879 May 17 22:38	30° R B	
direct	10878 Jun 12 23:44	8° II 53'38		morning rise	10879 May 21 21:01	25° B 26'20	
desc. node	10878 Jun 18 02:48	10° II 24'31		direct	10879 May 27 12:12	22° B 56'08	
morning max el	10878 Jun 25 12:07	16° II 22'53	25°51'59	desc. node	10879 Jun 04 23:47	27° B 02'19	
	10878 Jul 06 18:45	0° B		morning max el	10879 Jun 07 21:53	29° B 46'29	24°27'25
	10878 Jul 26 04:21	0° Ω			10879 Jun 08 03:12	0° II	
morning set	10878 Jul 31 13:18	9° Ω 34'10			10879 Jun 30 14:49	0° B	
max. Earth dist.	10878 Aug 04 07:41	16° Ω 37'55	1.35532 AU	morning set	10879 Jul 13 15:08	21° B 20'11	
				max. Earth dist.	10879 Jul 17 06:12	27° B 46'38	1.37670 AU
					10879 Jul 18 11:32	0° Ω	
superior conj	10878 Aug 09 23:30	27° Ω 47'03	-0°13'05				
minimum elong	10878 Aug 10 00:18	27° Ω 51'05	0°13'17	superior conj	10879 Jul 24 06:12	10° Ω 51'44	-0°46'06
behind sun begin	10878 Aug 09 20:48	27° Ω 33'23		minimum elong	10879 Jul 24 09:15	11° Ω 06'27	0°46'02
behind sun end	10878 Aug 10 03:48	28° Ω 08'49		asc. node	10879 Jul 29 04:40	20° Ω 32'52	
asc. node	10878 Aug 11 07:49	0° P 31'13		evening rise	10879 Aug 01 21:44	27° Ω 56'41	
	10878 Aug 11 01:42	0° P			10879 Aug 02 22:36	0° P	
evening rise	10878 Aug 17 19:39	13° P 54'51					
	10878 Aug 26 02:51	0° B		evening max el	10879 Aug 18 13:14	25° P 09'03	19°13'36
evening max el	10878 Sep 04 21:42	13° B 39'05	20°17'43	retrograde	10879 Aug 27 17:28	29° P 42'58	
desc. node	10878 Sep 14 00:48	18° B 54'40		evening set	10879 Aug 29 13:44	29° P 32'42	
retrograde	10878 Sep 15 18:12	19° B 02'34		desc. node	10879 Aug 31 22:06	28° P 52'02	
evening set	10878 Sep 17 18:19	18° B 52'20		inferior conj	10879 Sep 07 02:47	25° P 22'21	-1°55'48
inferior conj	10878 Sep 26 19:51	14° B 54'37	-3°48'13	minimum elong	10879 Sep 06 21:41	25° P 30'52	1°53'55
minimum elong	10878 Sep 26 10:22	15° B 08'36	3°45'04	min. Earth dist.	10879 Sep 09 19:47	23° P 34'14	0.55948 AU
min. Earth dist.	10878 Sep 28 07:17	14° B 02'28	0.54835 AU	morning rise	10879 Sep 15 02:46	20° P 42'56	
morning rise	10878 Oct 05 01:38	10° B 49'01		direct	10879 Sep 20 08:49	19° P 39'26	
direct	10878 Oct 09 11:57	10° B 06'42		morning max el	10879 Oct 04 11:28	26° P 49'24	25°34'19
morning max el	10878 Oct 22 23:45	16° B 41'05	23°50'58		10879 Oct 07 13:09	0° B	
	10878 Nov 02 15:44	0° M		asc. node	10879 Oct 25 05:24	26° B 55'55	
asc. node	10878 Nov 07 08:32	7° M 49'53			10879 Oct 26 19:15	0° M	
morning set	10878 Nov 16 05:42	25° M 24'37		morning set	10879 Oct 31 17:09	10° M 08'21	
	10878 Nov 18 08:53	0° Z					
				superior conj	10879 Nov 07 12:49	25° M 05'40	1°37'18
superior conj	10878 Nov 23 02:47	10° Z 20'09	1°39'35	minimum elong	10879 Nov 07 11:51	25° M 00'23	1°37'43
minimum elong	10878 Nov 23 02:54	10° Z 20'48	1°40'09	max. Earth dist.	10879 Nov 08 19:34	27° M 55'14	1.31981 AU

	10879 Nov 09 18:20	0°♊		asc. node	10880 Oct 11 02:15	16°♊25'38	
evening rise	10879 Nov 14 14:58	10°♊22'55		morning set	10880 Oct 15 02:41	24°♊43'36	
	10879 Nov 24 20:51	0°♊			10880 Oct 17 13:21	0°♊	
desc. node	10879 Nov 27 19:48	5°♊01'24					
	10879 Dec 16 14:29	0°♊		superior conj	10880 Oct 22 00:29	9°♊52'57	1°29'14
evening max el	10879 Dec 17 01:03	0°♊25'17	27°27'51	minimum elong	10880 Oct 21 22:43	9°♊43'08	1°29'25
retrograde	10879 Dec 30 21:37	7°♊43'06		max. Earth dist.	10880 Oct 22 04:11	10°♊13'36	1.31483 AU
evening set	10880 Jan 06 21:49	5°♊23'12		evening rise	10880 Oct 28 20:02	24°♊48'44	
min. Earth dist.	10880 Jan 10 15:04	2°♊26'34	0.62133 AU		10880 Oct 31 07:43	0°♊	
	10880 Jan 13 06:09	30°♊		desc. node	10880 Nov 13 16:57	24°♊10'18	
inferior conj	10880 Jan 13 13:54	29°♊41'52	-2°28'53		10880 Nov 17 15:21	0°♊	
minimum elong	10880 Jan 13 18:54	29°♊30'12	2°26'24	evening max el	10880 Nov 28 05:29	12°♊33'12	26°55'26
morning rise	10880 Jan 20 18:31	24°♊37'33		retrograde	10880 Dec 12 03:45	19°♊42'36	
asc. node	10880 Jan 21 04:52	24°♊29'55		evening set	10880 Dec 18 23:32	17°♊43'23	
direct	10880 Jan 22 23:54	24°♊15'31		min. Earth dist.	10880 Dec 22 19:56	15°♊04'12	0.60029 AU
morning max el	10880 Jan 29 19:20	27°♊43'12	17°48'32	inferior conj	10880 Dec 25 23:56	12°♊29'29	-3°45'13
	10880 Jan 31 20:57	0°♊		minimum elong	10880 Dec 26 07:21	12°♊14'19	3°42'11
morning set	10880 Feb 14 14:46	22°♊13'25		morning rise	10881 Jan 02 17:52	7°♊45'24	
	10880 Feb 18 23:59	0°♊		direct	10881 Jan 04 20:45	7°♊28'18	
desc. node	10880 Feb 23 19:45	8°♊23'15		asc. node	10881 Jan 07 02:02	7°♊47'53	
				morning max el	10881 Jan 12 08:50	11°♊12'18	18°06'01
superior conj	10880 Feb 25 21:54	11°♊56'43	-0°15'50		10881 Jan 24 18:53	0°♊	
minimum elong	10880 Feb 25 20:23	11°♊50'21	0°15'21	morning set	10881 Jan 28 00:02	5°♊57'36	
behind sun begin	10880 Feb 25 17:51	11°♊39'37					
behind sun end	10880 Feb 25 22:56	12°♊01'06		superior conj	10881 Feb 06 19:04	23°♊58'04	0°22'12
max. Earth dist.	10880 Mar 03 22:08	23°♊32'32	1.43640 AU	minimum elong	10881 Feb 06 20:48	24°♊05'46	0°22'19
	10880 Mar 07 23:02	0°♊		desc. node	10881 Feb 09 16:31	29°♊04'20	
evening rise	10880 Mar 11 09:19	5°♊22'20			10881 Feb 10 05:20	0°♊	
	10880 Mar 27 21:29	0°♊		max. Earth dist.	10881 Feb 14 10:05	7°♊09'35	1.41810 AU
evening max el	10880 Apr 11 09:45	18°♊30'42	21°28'30	evening rise	10881 Feb 19 15:05	15°♊42'40	
asc. node	10880 Apr 18 02:42	23°♊21'39			10881 Feb 28 19:32	0°♊	
retrograde	10880 Apr 20 07:50	23°♊45'29			10881 Mar 22 22:53	0°♊	
evening set	10880 Apr 24 17:08	21°♊59'24		evening max el	10881 Mar 25 02:45	2°♊16'58	22°46'46
inferior conj	10880 Apr 29 23:50	15°♊43'57	2°59'47	retrograde	10881 Apr 04 04:14	8°♊13'42	
minimum elong	10880 Apr 29 22:15	15°♊49'29	2°59'08	asc. node	10881 Apr 04 23:57	8°♊10'27	
min. Earth dist.	10880 Apr 30 05:15	15°♊25'05	0.68529 AU	evening set	10881 Apr 09 00:45	6°♊12'40	
morning rise	10880 May 05 03:09	9°♊29'26		inferior conj	10881 Apr 14 09:03	29°♊48'42	2°35'32
direct	10880 May 10 05:15	7°♊16'26		minimum elong	10881 Apr 14 06:58	29°♊55'56	2°34'48
morning max el	10880 May 20 08:05	13°♊16'31	22°57'32	min. Earth dist.	10881 Apr 14 01:53	0°♊13'34	0.68679 AU
desc. node	10880 May 21 20:43	14°♊52'20			10881 Apr 14 05:48	30°♊	
	10880 Jun 02 19:03	0°♊		morning rise	10881 Apr 19 13:03	23°♊40'04	
	10880 Jun 22 12:15	0°♊		direct	10881 Apr 24 01:45	21°♊47'58	
morning set	10880 Jun 23 17:36	2°♊00'58		morning max el	10881 May 02 22:03	26°♊55'44	21°31'15
max. Earth dist.	10880 Jun 28 03:08	9°♊25'48	1.39971 AU		10881 May 05 18:22	0°♊	
				desc. node	10881 May 08 17:34	3°♊35'02	
superior conj	10880 Jul 05 21:40	23°♊12'28	-1°19'18		10881 May 27 07:52	0°♊	
minimum elong	10880 Jul 06 03:04	23°♊37'08	1°19'05	morning set	10881 Jun 03 17:38	11°♊29'58	
	10880 Jul 09 13:37	0°♊		max. Earth dist.	10881 Jun 10 05:12	21°♊58'18	1.42155 AU
asc. node	10880 Jul 15 01:34	10°♊26'35			10881 Jun 15 00:19	0°♊	
evening rise	10880 Jul 15 15:16	11°♊32'04					
	10880 Jul 25 22:38	0°♊		superior conj	10881 Jun 17 17:20	4°♊38'51	-1°48'43
evening max el	10880 Jul 31 16:04	7°♊22'58	18°30'45	minimum elong	10881 Jun 17 23:52	5°♊07'08	1°48'41
retrograde	10880 Aug 08 11:04	11°♊17'19		evening rise	10881 Jun 28 20:21	24°♊31'22	
evening set	10880 Aug 10 12:23	11°♊01'52		asc. node	10881 Jul 01 22:30	0°♊08'05	
desc. node	10880 Aug 17 19:24	6°♊53'29			10881 Jul 01 20:43	0°♊	
inferior conj	10880 Aug 18 06:33	6°♊31'50	-0°08'34	evening max el	10881 Jul 15 02:08	20°♊11'20	18°08'17
minimum elong	10880 Aug 18 06:12	6°♊32'30	0°08'44	retrograde	10881 Jul 21 23:16	23°♊41'17	
transit middle	10880 Aug 18 06:12	6°♊32'30	0°08'44	evening set	10881 Jul 24 08:09	23°♊16'48	
transit begin	10880 Aug 18 03:11	6°♊38'23		inferior conj	10881 Jul 31 07:39	18°♊25'56	1°16'32
transit end	10880 Aug 18 09:13	6°♊26'36		minimum elong	10881 Jul 31 09:52	18°♊20'52	1°15'21
min. Earth dist.	10880 Aug 21 13:36	3°♊58'39	0.57764 AU	min. Earth dist.	10881 Aug 03 14:42	15°♊27'25	0.59961 AU
morning rise	10880 Aug 25 20:30	1°♊15'28		desc. node	10881 Aug 04 16:40	14°♊33'08	
	10880 Aug 29 08:58	30°♊		morning rise	10881 Aug 07 08:35	12°♊39'01	
direct	10880 Aug 31 20:08	29°♊44'24		direct	10881 Aug 13 20:10	10°♊39'03	
	10880 Sep 03 07:59	0°♊		morning max el	10881 Aug 28 04:04	18°♊31'45	27°45'58
morning max el	10880 Sep 15 04:07	7°♊19'54	26°56'56		10881 Sep 06 19:46	0°♊	
	10880 Oct 02 03:21	0°♊			10881 Sep 24 20:49	0°♊	

asc. node	10881 Sep 27 23:01	6°♄11'49			10882 Aug 31 22:29	0°♊	
morning set	10881 Sep 29 08:26	9°♄04'57		morning set	10882 Sep 13 08:27	23°♊07'25	
max. Earth dist.	10881 Oct 05 13:21	22°♄30'35	1.31477 AU	asc. node	10882 Sep 14 19:47	26°♊09'19	
					10882 Sep 16 15:43	0°♄	
superior conj	10881 Oct 06 11:53	24°♄35'36	1°15'42	max. Earth dist.	10882 Sep 18 19:07	4°♄35'33	1.31966 AU
minimum elong	10881 Oct 06 09:41	24°♄23'23	1°15'35				
	10881 Oct 08 22:15	0°♌		superior conj	10882 Sep 20 21:14	9°♄08'40	0°56'55
evening rise	10881 Oct 13 05:06	9°♌23'08		minimum elong	10882 Sep 20 19:04	8°♄56'51	0°56'34
	10881 Oct 23 16:34	0°♌		evening rise	10882 Sep 27 16:13	24°♄00'50	
desc. node	10881 Oct 31 14:10	12°♌32'07			10882 Sep 30 12:14	0°♌	
evening max el	10881 Nov 10 01:57	23°♌48'37	25°49'36	desc. node	10882 Oct 18 11:24	29°♌48'48	
	10881 Nov 19 08:43	0°♍			10882 Oct 18 15:09	0°♌	
retrograde	10881 Nov 23 23:27	0°♍49'57		evening max el	10882 Oct 22 14:33	4°♌16'35	24°18'27
	10881 Nov 28 13:42	30°♌♌		retrograde	10882 Nov 05 07:22	11°♌08'17	
evening set	10881 Nov 30 04:44	29°♌19'30		evening set	10882 Nov 10 09:43	10°♌10'58	
min. Earth dist.	10881 Dec 04 14:28	26°♌43'32	0.57950 AU	min. Earth dist.	10882 Nov 16 01:30	7°♌19'12	0.56156 AU
inferior conj	10881 Dec 07 15:22	24°♌34'54	-4°54'33	inferior conj	10882 Nov 18 10:13	5°♌51'24	-5°40'09
minimum elong	10881 Dec 07 23:15	24°♌20'57	4°52'11	minimum elong	10882 Nov 18 14:07	5°♌45'20	5°39'18
morning rise	10881 Dec 15 20:11	20°♌13'27		morning rise	10882 Nov 26 20:39	1°♌51'18	
direct	10881 Dec 18 01:22	19°♌57'53		direct	10882 Nov 29 10:27	1°♌33'50	
asc. node	10881 Dec 24 23:07	22°♌40'10		morning max el	10882 Dec 09 09:35	6°♌18'13	19°44'45
morning max el	10881 Dec 26 14:49	24°♌07'21	18°44'11	asc. node	10882 Dec 11 20:08	8°♌54'21	
	10881 Dec 31 10:59	0°♍			10882 Dec 24 15:37	0°♍	
morning set	10882 Jan 11 20:28	20°♍11'21		morning set	10882 Dec 27 00:20	4°♍43'50	
	10882 Jan 16 21:20	0°♎					
superior conj	10882 Jan 20 12:23	6°♎55'32	0°52'54	superior conj	10883 Jan 03 20:56	20°♍35'18	1°15'32
minimum elong	10882 Jan 20 15:21	7°♎09'33	0°52'58	minimum elong	10883 Jan 03 23:47	20°♍49'23	1°15'46
max. Earth dist.	10882 Jan 27 17:55	20°♎05'27	1.39665 AU		10883 Jan 08 17:45	0°♎	
desc. node	10882 Jan 27 13:20	19°♎45'17		max. Earth dist.	10883 Jan 09 23:57	2°♎21'22	1.37455 AU
evening rise	10882 Jan 31 17:48	26°♎58'18		evening rise	10883 Jan 13 17:18	9°♎07'44	
	10882 Feb 02 13:14	0°♏		desc. node	10883 Jan 14 10:11	10°♎22'32	
	10882 Feb 22 09:52	0°♏			10883 Jan 26 07:47	0°♏	
evening max el	10882 Mar 07 16:56	16°♏05'23	24°07'10		10883 Feb 18 08:10	0°♏	
retrograde	10882 Mar 18 21:25	22°♏39'34		evening max el	10883 Feb 18 06:09	29°♏55'02	25°23'02
asc. node	10882 Mar 22 21:13	21°♏25'44		retrograde	10883 Mar 02 10:23	6°♏57'25	
evening set	10882 Mar 24 05:50	20°♏25'01		evening set	10883 Mar 08 06:49	4°♏32'03	
min. Earth dist.	10882 Mar 28 22:07	15°♏01'17	0.68385 AU	asc. node	10883 Mar 09 18:28	3°♏07'51	
inferior conj	10882 Mar 29 17:24	13°♏56'00	2°01'47		10883 Mar 12 10:35	30°♏♏	
minimum elong	10882 Mar 29 15:15	14°♏03'20	2°01'02	min. Earth dist.	10883 Mar 12 15:50	29°♏43'15	0.67669 AU
morning rise	10882 Apr 04 00:44	7°♏54'26		inferior conj	10883 Mar 13 23:02	28°♏02'27	1°18'39
direct	10882 Apr 08 00:22	6°♏24'13		minimum elong	10883 Mar 13 21:19	28°♏08'03	1°18'06
morning max el	10882 Apr 15 18:53	10°♏47'06	20°15'14	morning rise	10883 Mar 19 12:14	22°♏09'16	
desc. node	10882 Apr 25 14:21	22°♏55'57		direct	10883 Mar 22 23:46	20°♏59'41	
	10882 Apr 30 12:48	0°♐		morning max el	10883 Mar 29 23:32	24°♏49'41	19°13'22
morning set	10882 May 13 20:48	20°♐05'56			10883 Apr 03 11:28	0°♏	
	10882 May 20 05:05	0°♑		greatest brilliancy	10883 Apr 11 22:08	11°♏56'15	-0.7m
max. Earth dist.	10882 May 23 14:24	5°♑23'08	1.43947 AU	desc. node	10883 Apr 12 11:07	12°♏44'50	
				morning set	10883 Apr 22 22:07	28°♏43'52	
superior conj	10882 May 29 13:20	15°♑03'03	-2°08'34		10883 Apr 23 17:49	0°♐	
minimum elong	10882 May 29 17:37	15°♑20'38	2°08'58	max. Earth dist.	10883 May 06 05:13	19°♐25'41	1.45159 AU
	10882 Jun 07 10:44	0°♑					
evening rise	10882 Jun 11 08:16	6°♑43'26		superior conj	10883 May 09 10:06	24°♐29'11	-2°12'12
asc. node	10882 Jun 18 19:29	19°♑32'15		minimum elong	10883 May 09 07:44	24°♐19'49	2°12'36
	10882 Jun 25 16:40	0°♒			10883 May 12 21:12	0°♑	
evening max el	10882 Jun 28 15:35	3°♒24'26	18°05'10	evening rise	10883 May 23 22:14	17°♑57'29	
retrograde	10882 Jul 05 02:00	6°♒45'06			10883 May 31 05:58	0°♑	
evening set	10882 Jul 07 18:44	6°♒08'43		asc. node	10883 Jun 05 16:31	8°♑32'04	
inferior conj	10882 Jul 14 02:52	0°♒58'49	2°16'19	evening max el	10883 Jun 12 05:03	16°♑53'05	18°20'33
minimum elong	10882 Jul 14 05:36	0°♒51'42	2°15'03	retrograde	10883 Jun 18 14:36	20°♑18'22	
	10882 Jul 15 01:20	30°♒♒		evening set	10883 Jun 21 15:15	19°♑28'03	
min. Earth dist.	10882 Jul 17 00:53	27°♒57'43	0.62220 AU	inferior conj	10883 Jun 27 11:58	14°♑01'04	2°53'42
morning rise	10882 Jul 20 14:21	24°♒51'39		minimum elong	10883 Jun 27 14:03	13°♑55'01	2°52'45
desc. node	10882 Jul 22 13:52	23°♒38'32		min. Earth dist.	10883 Jun 29 20:31	11°♑17'39	0.64306 AU
direct	10882 Jul 27 07:02	22°♒27'17		morning rise	10883 Jul 03 11:34	7°♑43'24	
	10882 Aug 09 22:25	0°♒		desc. node	10883 Jul 09 11:02	5°♑05'11	
morning max el	10882 Aug 10 10:21	0°♒29'30	27°56'28	direct	10883 Jul 10 02:54	5°♑03'42	
				morning max el	10883 Jul 23 20:10	13°♑04'37	27°30'20

	10883 Aug 06 10:15	0°♎			10884 Jul 08 20:59	0°♏		
	10883 Aug 24 12:20	0°♏			10884 Jul 29 23:50	0°♎		
morning set	10883 Aug 28 00:10	6°♏43'28		morning set	10884 Aug 10 04:28	19°♎44'56		
max. Earth dist.	10883 Sep 01 17:28	16°♏17'39	1.32959 AU	max. Earth dist.	10884 Aug 14 05:38	27°♎34'29	1.34460 AU	
asc. node	10883 Sep 01 16:33	16°♏12'55			10884 Aug 15 10:52	0°♏		
				asc. node	10884 Aug 18 13:21	6°♏18'43		
superior conj	10883 Sep 05 02:28	23°♏25'38	0°33'08					
minimum elong	10883 Sep 05 00:56	23°♏17'24	0°32'42	superior conj	10884 Aug 19 01:19	7°♏20'30	0°04'54	
	10883 Sep 08 03:40	0°♏		minimum elong	10884 Aug 19 01:03	7°♏19'10	0°04'34	
evening rise	10883 Sep 12 03:28	8°♏35'42		behind sun begin	10884 Aug 18 19:26	6°♏50'05		
	10883 Sep 23 05:24	0°♏		behind sun end	10884 Aug 19 06:41	7°♏48'19		
evening max el	10883 Oct 04 01:22	14°♏22'56	22°37'45	evening rise	10884 Aug 26 12:57	23°♏02'32		
desc. node	10883 Oct 05 08:40	15°♏35'44			10884 Aug 29 22:19	0°♏		
retrograde	10883 Oct 17 03:07	20°♏53'20		evening max el	10884 Sep 14 19:49	24°♏44'51	21°04'03	
evening set	10883 Oct 20 17:58	20°♏24'38		desc. node	10884 Sep 21 05:58	29°♏23'37		
min. Earth dist.	10883 Oct 28 09:12	16°♏58'59	0.54954 AU		10884 Sep 22 19:48	0°♏		
inferior conj	10883 Oct 29 10:57	16°♏22'22	-5°40'32	retrograde	10884 Sep 26 14:43	0°♏35'43		
minimum elong	10883 Oct 29 06:45	16°♏28'20	5°39'47	evening set	10884 Sep 29 00:16	0°♏22'11		
morning rise	10883 Nov 06 21:11	12°♏34'24			10884 Sep 30 13:23	30°♏♏		
direct	10883 Nov 10 01:58	12°♏11'00		inferior conj	10884 Oct 08 03:02	26°♏27'05	-4°43'12	
morning max el	10883 Nov 21 14:43	17°♏38'03	21°07'47	minimum elong	10884 Oct 07 17:18	26°♏40'50	4°40'34	
asc. node	10883 Nov 28 17:05	26°♏14'22		min. Earth dist.	10884 Oct 08 16:45	26°♏07'43	0.54605 AU	
	10883 Dec 01 03:07	0°♏		morning rise	10884 Oct 16 10:42	22°♏33'57		
morning set	10883 Dec 11 08:55	19°♏27'07		direct	10884 Oct 20 10:11	21°♏59'54		
	10883 Dec 16 09:41	0°♏		morning max el	10884 Nov 02 07:35	28°♏10'54	22°48'53	
					10884 Nov 04 03:19	0°♏		
superior conj	10883 Dec 18 16:30	4°♏45'10	1°30'24	asc. node	10884 Nov 14 14:01	14°♏25'16		
minimum elong	10883 Dec 18 18:28	4°♏55'19	1°30'50		10884 Nov 22 19:20	0°♏		
max. Earth dist.	10883 Dec 23 09:23	14°♏15'38	1.35422 AU	morning set	10884 Nov 24 20:02	4°♏14'53		
evening rise	10883 Dec 27 10:35	22°♏03'11						
	10883 Dec 31 19:17	0°♏		superior conj	10884 Dec 01 19:42	19°♏15'00	1°38'07	
desc. node	10884 Jan 01 07:06	0°♏52'03		minimum elong	10884 Dec 01 20:30	19°♏19'17	1°38'41	
	10884 Jan 20 02:59	0°♏		max. Earth dist.	10884 Dec 05 02:22	26°♏10'05	1.33739 AU	
evening max el	10884 Jan 31 19:38	13°♏42'13	26°27'12		10884 Dec 06 23:02	0°♏		
retrograde	10884 Feb 13 18:15	21°♏00'42		evening rise	10884 Dec 09 17:57	5°♏34'39		
evening set	10884 Feb 20 02:00	18°♏28'39		desc. node	10884 Dec 18 04:04	21°♏08'30		
min. Earth dist.	10884 Feb 24 04:56	14°♏14'12	0.66555 AU		10884 Dec 23 11:52	0°♏		
asc. node	10884 Feb 24 15:43	13°♏41'57		evening max el	10885 Jan 13 09:06	27°♏17'27	27°12'12	
inferior conj	10884 Feb 25 23:58	12°♏04'08	0°26'10		10885 Jan 16 10:29	0°♏		
minimum elong	10884 Feb 25 23:17	12°♏06'13	0°26'07	retrograde	10885 Jan 26 19:59	4°♏40'42		
morning rise	10884 Mar 02 21:30	6°♏21'06		evening set	10885 Feb 02 13:16	2°♏07'30		
direct	10884 Mar 05 22:19	5°♏29'23			10885 Feb 04 23:01	30°♏♏		
morning max el	10884 Mar 12 11:01	8°♏59'05	18°27'38	min. Earth dist.	10885 Feb 06 11:08	28°♏26'12	0.65080 AU	
	10884 Mar 27 11:38	0°♏		inferior conj	10885 Feb 08 17:51	25°♏54'39	-0°35'36	
desc. node	10884 Mar 29 07:51	2°♏54'25		minimum elong	10885 Feb 08 18:54	25°♏51'44	0°34'47	
morning set	10884 Apr 01 19:48	8°♏26'38		asc. node	10885 Feb 10 12:58	23°♏58'14		
	10884 Apr 15 12:30	0°♏		morning rise	10885 Feb 15 02:04	20°♏24'12		
				direct	10885 Feb 17 17:46	19°♏46'52		
superior conj	10884 Apr 17 17:20	3°♏26'36	-1°55'33	morning max el	10885 Feb 24 02:59	23°♏07'38	17°58'42	
minimum elong	10884 Apr 17 08:41	2°♏52'46	1°55'14		10885 Mar 01 15:59	0°♏		
max. Earth dist.	10884 Apr 17 23:51	3°♏52'01	1.45670 AU	morning set	10885 Mar 13 22:33	19°♏35'49		
evening rise	10884 May 03 12:12	28°♏12'51		desc. node	10885 Mar 16 04:34	23°♏18'10		
	10884 May 04 15:20	0°♏			10885 Mar 20 06:51	0°♏		
greatest brilliancy	10884 May 12 20:45	12°♏56'45	-0.8m					
asc. node	10884 May 22 13:36	26°♏59'54		superior conj	10885 Mar 28 04:28	12°♏40'59	-1°21'47	
	10884 May 25 03:41	0°♏		minimum elong	10885 Mar 27 19:50	12°♏06'46	1°20'51	
evening max el	10884 May 25 15:57	0°♏31'28	18°53'34	max. Earth dist.	10885 Mar 31 19:49	18°♏25'33	1.45435 AU	
retrograde	10884 Jun 01 09:17	4°♏14'09			10885 Apr 08 06:02	0°♏		
evening set	10884 Jun 04 18:13	3°♏08'35		evening rise	10885 Apr 13 06:34	7°♏45'07		
	10884 Jun 08 04:30	30°♏♏		greatest brilliancy	10885 Apr 27 06:09	28°♏57'48	-0.6m	
inferior conj	10884 Jun 10 07:13	27°♏26'01	3°12'46		10885 Apr 27 23:07	0°♏		
minimum elong	10884 Jun 10 08:11	27°♏22'57	3°12'05	evening max el	10885 May 08 22:15	14°♏14'05	19°43'02	
min. Earth dist.	10884 Jun 12 00:48	25°♏15'14	0.66061 AU	asc. node	10885 May 09 10:46	14°♏44'56		
morning rise	10884 Jun 15 21:29	21°♏04'51		retrograde	10885 May 16 07:11	18°♏25'54		
direct	10884 Jun 22 06:11	18°♏21'03		evening set	10885 May 20 00:58	17°♏04'25		
desc. node	10884 Jun 25 08:08	18°♏53'55		inferior conj	10885 May 25 09:27	11°♏07'34	3°17'05	
morning max el	10884 Jul 05 06:52	26°♏06'11	26°34'11	minimum elong	10885 May 25 09:16	11°♏08'10	3°16'31	

min. Earth dist.	10885 May 26 12:14	9° Π 38'14	0.67386 AU	morning rise	10886 May 14 20:14	18° \mathcal{B} 44'08	
morning rise	10885 May 30 17:14	4° Π 47'17		direct	10886 May 20 05:55	16° \mathcal{B} 20'54	
direct	10885 Jun 05 15:32	2° Π 09'47		desc. node	10886 May 30 02:08	21° \mathcal{B} 49'49	
desc. node	10885 Jun 12 05:10	4° Π 38'26		morning max el	10886 May 31 02:38	22° \mathcal{B} 50'07	23°49'15
morning max el	10885 Jun 17 16:55	9° Π 23'31	25°17'12		10886 Jun 06 09:38	0° Π	
	10885 Jul 03 22:56	0° \mathcal{E}			10886 Jun 27 06:59	0° \mathcal{E}	
	10885 Jul 22 14:02	0° Ω		morning set	10886 Jul 05 09:46	13° \mathcal{E} 21'18	
morning set	10885 Jul 23 17:19	2° Ω 01'48		max. Earth dist.	10886 Jul 09 05:37	19° \mathcal{E} 59'51	1.38648 AU
max. Earth dist.	10885 Jul 27 08:07	8° Ω 39'30	1.36409 AU		10886 Jul 14 18:06	0° Ω	
superior conj	10885 Aug 02 14:55	20° Ω 46'08	-0°26'53	superior conj	10886 Jul 16 15:39	3° Ω 33'17	-1°00'21
minimum elong	10885 Aug 02 16:37	20° Ω 54'33	0°26'58	minimum elong	10886 Jul 16 19:44	3° Ω 52'34	1°00'12
asc. node	10885 Aug 05 10:12	26° Ω 23'10		asc. node	10886 Jul 23 07:04	16° Ω 22'02	
	10885 Aug 07 04:56	0° \mathcal{H}		evening rise	10886 Jul 25 17:24	21° Ω 07'45	
evening rise	10885 Aug 10 18:30	7° \mathcal{H} 15'48			10886 Jul 30 08:05	0° \mathcal{H}	
	10885 Aug 23 08:57	0° \mathcal{A}		evening max el	10886 Aug 11 00:13	17° \mathcal{H} 36'40	18°52'44
evening max el	10885 Aug 28 03:32	5° \mathcal{A} 47'40	19°47'50	retrograde	10886 Aug 19 13:09	21° \mathcal{H} 52'31	
retrograde	10885 Sep 07 06:13	10° \mathcal{A} 49'11		evening set	10886 Aug 21 10:54	21° \mathcal{H} 40'34	
desc. node	10885 Sep 08 03:17	10° \mathcal{A} 47'03		desc. node	10886 Aug 26 00:36	19° \mathcal{H} 47'27	
evening set	10885 Sep 09 03:19	10° \mathcal{A} 39'33		inferior conj	10886 Aug 29 16:09	17° \mathcal{H} 21'52	-1°08'15
inferior conj	10885 Sep 18 00:51	6° \mathcal{A} 37'42	-3°01'38	minimum elong	10886 Aug 29 13:16	17° \mathcal{H} 27'01	1°07'18
minimum elong	10885 Sep 17 16:51	6° \mathcal{A} 50'01	2°58'46	min. Earth dist.	10886 Sep 01 16:52	15° \mathcal{H} 12'52	0.56648 AU
min. Earth dist.	10885 Sep 20 02:33	5° \mathcal{A} 21'17	0.55205 AU	morning rise	10886 Sep 06 12:22	12° \mathcal{H} 26'26	
morning rise	10885 Sep 26 04:42	2° \mathcal{A} 19'28		direct	10886 Sep 12 02:08	11° \mathcal{H} 12'08	
direct	10885 Sep 30 23:40	1° \mathcal{A} 29'03		morning max el	10886 Sep 26 08:12	18° \mathcal{H} 33'44	26°13'06
morning max el	10885 Oct 14 18:47	8° \mathcal{A} 18'58	24°36'28		10886 Oct 05 22:38	0° \mathcal{A}	
	10885 Oct 30 15:47	0° \mathcal{M}		asc. node	10886 Oct 19 07:46	22° \mathcal{A} 31'31	
asc. node	10885 Nov 01 10:55	3° \mathcal{M} 14'31			10886 Oct 23 00:31	0° \mathcal{M}	
morning set	10885 Nov 09 07:54	19° \mathcal{M} 02'09		morning set	10886 Oct 24 18:45	3° \mathcal{M} 42'56	
	10885 Nov 14 08:42	0° \mathcal{X}		superior conj	10886 Oct 31 14:52	18° \mathcal{M} 43'55	1°34'35
superior conj	10885 Nov 16 03:55	3° \mathcal{X} 57'10	1°39'21	minimum elong	10886 Oct 31 13:31	18° \mathcal{M} 36'30	1°34'54
minimum elong	10885 Nov 16 03:33	3° \mathcal{X} 55'12	1°39'51	max. Earth dist.	10886 Nov 01 10:06	20° \mathcal{M} 30'41	1.31708 AU
max. Earth dist.	10885 Nov 18 03:23	8° \mathcal{X} 15'41	1.32489 AU		10886 Nov 05 18:14	0° \mathcal{X}	
evening rise	10885 Nov 23 11:59	19° \mathcal{X} 33'24		evening rise	10886 Nov 07 13:41	3° \mathcal{X} 50'38	
	10885 Nov 28 19:47	0° \mathcal{Z}		desc. node	10886 Nov 21 22:14	0° \mathcal{Z} 35'19	
desc. node	10885 Dec 05 01:07	11° \mathcal{Z} 05'56			10886 Nov 21 13:31	0° \mathcal{Z}	
	10885 Dec 17 15:49	0° \mathcal{A}		evening max el	10886 Dec 09 04:35	23° \mathcal{Z} 01'54	27°18'12
evening max el	10885 Dec 26 20:56	10° \mathcal{A} 28'44	27°31'01		10886 Dec 20 13:56	0° \mathcal{A}	
retrograde	10886 Jan 09 14:45	17° \mathcal{A} 49'13		retrograde	10886 Dec 23 01:52	0° \mathcal{A} 16'15	
evening set	10886 Jan 16 14:10	15° \mathcal{A} 21'56			10886 Dec 25 12:36	30° \mathcal{R} \mathcal{Z}	
min. Earth dist.	10886 Jan 20 08:19	12° \mathcal{A} 10'52	0.63291 AU	evening set	10886 Dec 30 01:27	28° \mathcal{Z} 03'40	
inferior conj	10886 Jan 23 01:57	9° \mathcal{A} 27'30	-1°45'40	min. Earth dist.	10887 Jan 02 19:03	25° \mathcal{Z} 16'15	0.61254 AU
minimum elong	10886 Jan 23 05:23	9° \mathcal{A} 18'54	1°43'46	inferior conj	10887 Jan 05 20:58	22° \mathcal{Z} 33'44	-3°01'22
asc. node	10886 Jan 28 10:11	4° \mathcal{A} 56'47		minimum elong	10887 Jan 06 03:06	22° \mathcal{Z} 20'12	2°58'32
morning rise	10886 Jan 29 22:47	4° \mathcal{A} 12'45		morning rise	10887 Jan 13 07:24	17° \mathcal{Z} 37'57	
direct	10886 Feb 01 07:21	3° \mathcal{A} 46'06		direct	10887 Jan 15 11:20	17° \mathcal{Z} 18'24	
morning max el	10886 Feb 07 20:38	7° \mathcal{A} 08'09	17°47'03	asc. node	10887 Jan 15 07:21	17° \mathcal{Z} 18'31	
	10886 Feb 22 23:35	0° \mathcal{H}		morning max el	10887 Jan 22 12:41	20° \mathcal{Z} 51'32	17°53'37
morning set	10886 Feb 24 03:25	2° \mathcal{H} 00'22			10887 Jan 29 09:42	0° \mathcal{A}	
desc. node	10886 Mar 03 01:18	13° \mathcal{H} 51'47		morning set	10887 Feb 07 04:00	15° \mathcal{A} 20'23	
					10887 Feb 15 07:49	0° \mathcal{H}	
superior conj	10886 Mar 08 11:05	22° \mathcal{H} 53'10	-0°39'57	superior conj	10887 Feb 17 18:41	4° \mathcal{H} 16'41	0°01'06
minimum elong	10886 Mar 08 06:54	22° \mathcal{H} 36'00	0°39'12	minimum elong	10887 Feb 17 18:48	4° \mathcal{H} 17'13	0°01'22
	10886 Mar 12 20:03	0° \mathcal{Y}		behind sun begin	10887 Feb 17 10:31	3° \mathcal{H} 41'19	
max. Earth dist.	10886 Mar 14 14:23	2° \mathcal{Y} 49'33	1.44482 AU	behind sun end	10887 Feb 18 03:05	4° \mathcal{H} 53'00	
evening rise	10886 Mar 23 17:59	17° \mathcal{Y} 08'31		desc. node	10887 Feb 17 22:04	4° \mathcal{H} 31'19	
	10886 Apr 01 05:43	0° \mathcal{B}		max. Earth dist.	10887 Feb 25 04:56	16° \mathcal{H} 47'03	1.42914 AU
evening max el	10886 Apr 21 22:54	27° \mathcal{B} 57'45	20°46'44	evening rise	10887 Mar 03 13:42	27° \mathcal{H} 00'18	
	10886 Apr 24 03:43	0° Π			10887 Mar 05 11:40	0° \mathcal{Y}	
asc. node	10886 Apr 26 07:59	1° Π 33'51			10887 Mar 26 00:55	0° \mathcal{B}	
retrograde	10886 Apr 30 05:59	2° Π 48'01		evening max el	10887 Apr 04 18:08	11° \mathcal{B} 42'21	22°01'06
evening set	10886 May 04 09:24	1° Π 10'36		asc. node	10887 Apr 13 05:12	17° \mathcal{B} 11'21	
	10886 May 05 16:35	30° \mathcal{R} \mathcal{B}		retrograde	10887 Apr 14 03:49	17° \mathcal{B} 15'39	
inferior conj	10886 May 09 16:05	25° \mathcal{B} 01'09	3°09'11	evening set	10887 Apr 18 17:47	15° \mathcal{B} 22'55	
minimum elong	10886 May 09 14:55	25° \mathcal{B} 05'09	3°08'36	inferior conj	10887 Apr 24 00:54	9° \mathcal{B} 03'12	2°50'40
min. Earth dist.	10886 May 10 04:56	24° \mathcal{B} 16'44	0.68246 AU				

minimum elong	10887 Apr 23 23:04	9°♄09'38	2°49'59	inferior conj	10888 Apr 07 09:58	23°♄09'51	2°22'23
min. Earth dist.	10887 Apr 24 00:49	9°♄03'30	0.68645 AU	minimum elong	10888 Apr 07 07:48	23°♄17'20	2°21'38
morning rise	10887 Apr 29 04:11	2°♄51'02		min. Earth dist.	10888 Apr 06 21:38	23°♄52'21	0.68601 AU
direct	10887 May 04 00:28	0°♄46'55		morning rise	10888 Apr 12 15:03	17°♄03'48	
morning max el	10887 May 13 14:13	6°♄24'45	22°19'57	direct	10888 Apr 16 22:02	15°♄21'05	
desc. node	10887 May 16 23:02	10°♄04'42		morning max el	10888 Apr 25 06:47	20°♄09'00	20°57'18
	10887 May 31 18:49	0°♄		desc. node	10888 May 02 19:51	29°♄05'21	
morning set	10887 Jun 16 01:09	23°♄32'19			10888 May 03 12:18	0°♄	
	10887 Jun 19 23:23	0°♄			10888 May 23 23:09	0°♄	
max. Earth dist.	10887 Jun 21 04:16	2°♄01'07	1.40927 AU	morning set	10888 May 25 14:47	2°♄34'15	
				max. Earth dist.	10888 Jun 02 08:40	14°♄54'24	1.42977 AU
superior conj	10887 Jun 28 23:14	15°♄32'12	-1°32'33	superior conj	10888 Jun 09 09:07	26°♄32'34	-1°58'43
minimum elong	10887 Jun 29 05:23	15°♄59'38	1°32'22	minimum elong	10888 Jun 09 15:14	26°♄58'28	1°58'52
	10887 Jul 06 20:36	0°♄			10888 Jun 11 09:51	0°♄	
evening rise	10887 Jul 09 06:13	4°♄29'41		evening rise	10888 Jun 21 04:33	17°♄09'56	
asc. node	10887 Jul 10 03:59	6°♄11'29		asc. node	10888 Jun 26 00:54	25°♄46'11	
	10887 Jul 25 03:57	0°♄			10888 Jun 28 11:46	0°♄	
evening max el	10887 Jul 25 06:36	0°♄06'36	18°18'44	evening max el	10888 Jul 07 18:34	13°♄06'46	18°04'42
retrograde	10887 Aug 01 15:07	3°♄49'00		retrograde	10888 Jul 14 09:51	16°♄30'47	
evening set	10887 Aug 03 19:21	3°♄30'15		evening set	10888 Jul 16 22:04	16°♄01'35	
	10887 Aug 09 19:50	30°♄		inferior conj	10888 Jul 23 14:36	11°♄02'44	1°44'52
inferior conj	10887 Aug 11 05:19	28°♄51'22	0°30'36	minimum elong	10888 Jul 23 17:14	10°♄56'21	1°43'34
minimum elong	10887 Aug 11 06:21	28°♄49'12	0°29'52	min. Earth dist.	10888 Jul 26 18:47	8°♄00'04	0.60934 AU
desc. node	10887 Aug 12 21:52	27°♄26'10		desc. node	10888 Jul 29 19:06	5°♄30'59	
min. Earth dist.	10887 Aug 14 13:49	26°♄04'26	0.58668 AU	morning rise	10888 Jul 30 09:43	5°♄05'56	
morning rise	10887 Aug 18 13:53	23°♄20'26		direct	10888 Aug 06 00:31	2°♄54'18	
direct	10887 Aug 24 19:14	21°♄36'48		morning max el	10888 Aug 20 06:53	10°♄52'36	27°55'03
morning max el	10887 Sep 08 04:09	29°♄21'28	27°22'23		10888 Sep 04 05:45	0°♄	
	10887 Sep 08 19:40	0°♄			10888 Sep 21 01:52	0°♄	
	10887 Sep 29 20:28	0°♄		morning set	10888 Sep 22 06:26	2°♄26'48	
asc. node	10887 Oct 06 04:36	12°♄08'59		asc. node	10888 Sep 22 01:22	2°♄00'37	
morning set	10887 Oct 09 02:53	18°♄12'51		max. Earth dist.	10888 Sep 28 03:13	15°♄00'52	1.31618 AU
	10887 Oct 14 12:54	0°♄					
superior conj	10887 Oct 16 02:37	3°♄29'47	1°24'10	superior conj	10888 Sep 29 13:23	18°♄09'16	1°08'21
minimum elong	10887 Oct 16 00:37	3°♄18'39	1°24'12	minimum elong	10888 Sep 29 11:08	17°♄56'51	1°08'08
max. Earth dist.	10887 Oct 15 19:15	2°♄48'44	1.31416 AU		10888 Oct 04 22:10	0°♄	
evening rise	10887 Oct 22 20:39	18°♄20'20		evening rise	10888 Oct 06 06:49	2°♄56'50	
	10887 Oct 28 13:23	0°♄			10888 Oct 20 14:49	0°♄	
desc. node	10887 Nov 08 19:23	19°♄25'51		desc. node	10888 Oct 25 16:35	7°♄22'42	
	10887 Nov 16 17:06	0°♄		evening max el	10888 Nov 01 22:30	15°♄41'05	25°13'15
evening max el	10887 Nov 21 05:32	4°♄46'43	26°31'09	retrograde	10888 Nov 15 19:13	22°♄39'00	
retrograde	10887 Dec 05 04:03	11°♄53'36		evening set	10888 Nov 21 14:13	21°♄22'54	
evening set	10887 Dec 11 19:01	10°♄05'31		min. Earth dist.	10888 Nov 26 10:34	18°♄42'17	0.57126 AU
min. Earth dist.	10887 Dec 15 19:17	7°♄29'48	0.59121 AU	inferior conj	10888 Nov 29 06:11	16°♄49'35	-5°18'06
inferior conj	10887 Dec 18 23:23	5°♄03'53	-4°16'21	minimum elong	10888 Nov 29 13:02	16°♄38'08	5°16'22
minimum elong	10887 Dec 19 07:23	4°♄48'30	4°13'26	morning rise	10888 Dec 07 14:07	12°♄37'26	
morning rise	10887 Dec 26 22:28	0°♄29'37		direct	10888 Dec 09 22:00	12°♄21'33	
direct	10887 Dec 29 01:29	0°♄13'43		morning max el	10888 Dec 19 01:09	16°♄45'25	19°07'09
asc. node	10888 Jan 02 04:29	1°♄17'06		asc. node	10888 Dec 19 01:33	16°♄46'20	
morning max el	10888 Jan 05 23:30	4°♄07'32	18°19'42		10888 Dec 28 13:10	0°♄	
morning set	10888 Jan 21 18:30	29°♄18'18		morning set	10889 Jan 04 18:32	13°♄41'33	
	10888 Jan 22 03:16	0°♄					
superior conj	10888 Jan 31 01:00	16°♄43'37	0°36'12	superior conj	10889 Jan 13 01:22	0°♄00'54	1°03'28
minimum elong	10888 Jan 31 03:28	16°♄54'54	0°36'15	minimum elong	10889 Jan 13 04:25	0°♄15'35	1°03'36
desc. node	10888 Feb 04 18:49	25°♄12'47			10889 Jan 13 01:11	0°♄	
max. Earth dist.	10888 Feb 07 14:23	0°♄04'53	1.40914 AU	max. Earth dist.	10889 Jan 19 20:49	12°♄42'16	1.38716 AU
	10888 Feb 07 13:14	0°♄		desc. node	10889 Jan 21 15:38	15°♄52'58	
evening rise	10888 Feb 12 04:02	7°♄43'33		evening rise	10889 Jan 23 15:57	19°♄23'43	
	10888 Feb 26 13:40	0°♄			10889 Jan 30 00:25	0°♄	
evening max el	10888 Mar 17 09:34	25°♄29'15	23°21'07		10889 Feb 19 18:30	0°♄	
	10888 Mar 22 20:03	0°♄		evening max el	10889 Feb 27 23:20	9°♄19'36	24°40'28
retrograde	10888 Mar 27 23:05	1°♄43'32		retrograde	10889 Mar 11 14:34	16°♄06'54	
asc. node	10888 Mar 30 02:27	1°♄21'43		asc. node	10889 Mar 16 23:41	13°♄56'42	
	10888 Apr 01 12:58	30°♄		evening set	10889 Mar 17 04:01	13°♄47'40	
evening set	10888 Apr 02 00:29	29°♄36'39		min. Earth dist.	10889 Mar 21 17:09	8°♄38'37	0.68132 AU
				inferior conj	10889 Mar 22 17:25	7°♄17'52	1°44'41

minimum elong	10889 Mar 22 15:23	7° Υ 24'41	1°43'59	evening set	10890 Mar 01 02:44	27° $\cancel{\text{H}}$ 50'35	
morning rise	10889 Mar 28 02:55	1° Υ 19'25		asc. node	10890 Mar 03 20:58	25° $\cancel{\text{H}}$ 04'59	
	10889 Mar 31 07:02	30° $\text{R}\cancel{\text{H}}$		min. Earth dist.	10890 Mar 05 09:07	23° $\cancel{\text{H}}$ 16'34	0.67248 AU
direct	10889 Mar 31 21:20	29° $\cancel{\text{H}}$ 58'02		inferior conj	10890 Mar 06 21:19	21° $\cancel{\text{H}}$ 22'42	0°57'35
	10889 Apr 01 11:47	0° Υ		minimum elong	10890 Mar 06 19:57	21° $\cancel{\text{H}}$ 27'01	0°57'11
morning max el	10889 Apr 08 06:50	4° Υ 05'20	19°46'57	morning rise	10890 Mar 12 13:45	15° $\cancel{\text{H}}$ 33'36	
desc. node	10889 Apr 19 16:39	18° Υ 39'34		direct	10890 Mar 15 20:40	14° $\cancel{\text{H}}$ 31'50	
greatest brilliancy	10889 Apr 21 04:50	20° Υ 50'56	-0.6m	morning max el	10890 Mar 22 14:35	18° $\cancel{\text{H}}$ 11'17	18°51'55
	10889 Apr 27 08:22	0° B			10890 Mar 31 19:57	0° Υ	
morning set	10889 May 04 14:10	11° B 02'25		desc. node	10890 Apr 06 13:24	8° Υ 38'01	
max. Earth dist.	10889 May 15 20:27	28° B 37'15	1.44553 AU	morning set	10890 Apr 13 22:09	20° Υ 02'49	
	10889 May 16 17:17	0° II			10890 Apr 20 07:31	0° B	
				max. Earth dist.	10890 Apr 28 13:49	12° B 54'15	1.45472 AU
superior conj	10889 May 20 18:48	6° II 30'53	-2°12'27				
minimum elong	10889 May 20 20:41	6° II 38'28	2°12'57	superior conj	10890 Apr 30 08:03	15° B 39'55	-2°07'36
evening rise	10889 Jun 03 07:35	28° II 57'58		minimum elong	10890 Apr 30 02:30	15° B 18'07	2°07'47
	10889 Jun 03 22:13	0° B			10890 May 09 09:19	0° II	
asc. node	10889 Jun 12 21:52	15° B 00'42		evening rise	10890 May 15 11:23	9° II 47'04	
evening max el	10889 Jun 21 08:26	26° B 27'41	18°09'31		10890 May 28 04:07	0° B	
retrograde	10889 Jun 27 17:09	29° B 48'15		asc. node	10890 May 30 18:55	3° B 48'17	
evening set	10889 Jun 30 13:23	29° B 06'00		evening max el	10890 Jun 04 21:09	10° B 01'41	18°32'27
inferior conj	10889 Jul 06 16:11	23° B 48'38	2°34'40	retrograde	10890 Jun 11 08:53	13° B 32'45	
minimum elong	10889 Jul 06 18:44	23° B 41'39	2°33'31	evening set	10890 Jun 14 13:04	12° B 35'54	
min. Earth dist.	10889 Jul 09 08:49	20° B 53'01	0.63150 AU	inferior conj	10890 Jun 20 06:03	7° B 01'50	3°03'48
morning rise	10889 Jul 12 22:23	17° B 36'17		minimum elong	10890 Jun 20 07:41	6° B 56'54	3°02'58
desc. node	10889 Jul 16 16:18	15° B 33'06		min. Earth dist.	10890 Jun 22 08:10	4° B 31'14	0.65102 AU
direct	10889 Jul 19 15:23	15° B 04'06		morning rise	10890 Jun 26 01:22	0° B 42'06	
morning max el	10889 Aug 02 14:46	23° B 06'26	27°49'26		10890 Jun 26 22:57	30° RII	
	10889 Aug 08 17:37	0° J		direct	10890 Jul 02 14:21	27° II 59'41	
	10889 Aug 28 12:37	0° M		desc. node	10890 Jul 03 13:27	28° II 02'51	
morning set	10889 Sep 06 03:13	16° M 18'30			10890 Jul 08 20:36	0° B	
asc. node	10889 Sep 08 22:08	22° M 01'03		morning max el	10890 Jul 16 01:22	5° B 55'03	27°09'42
max. Earth dist.	10889 Sep 11 06:13	26° M 56'44	1.32327 AU		10890 Aug 03 11:36	0° J	
	10889 Sep 12 16:23	0° A		morning set	10890 Aug 20 14:33	29° J 41'22	
					10890 Aug 20 18:24	0° M	
superior conj	10889 Sep 13 21:14	2° A 36'11	0°47'24	max. Earth dist.	10890 Aug 25 00:49	8° M 29'45	1.33542 AU
minimum elong	10889 Sep 13 19:16	2° A 25'29	0°47'01	asc. node	10890 Aug 26 18:54	12° M 06'16	
evening rise	10889 Sep 20 18:13	17° A 34'07					
	10889 Sep 26 19:35	0° M		superior conj	10890 Aug 29 00:06	16° M 44'57	0°21'40
desc. node	10889 Oct 12 13:51	24° M 04'38		minimum elong	10890 Aug 28 23:01	16° M 39'16	0°21'16
evening max el	10889 Oct 14 09:32	25° M 56'22	23°35'50		10890 Sep 04 05:06	0° A	
	10889 Oct 19 11:26	0° J		evening rise	10890 Sep 05 05:02	2° A 06'59	
retrograde	10889 Oct 27 21:20	2° J 40'11			10890 Sep 20 17:32	0° M	
evening set	10889 Nov 01 09:06	1° J 56'19		evening max el	10890 Sep 25 22:24	6° M 04'42	21°56'10
	10889 Nov 05 19:32	30° RM		desc. node	10890 Sep 29 11:08	9° M 05'00	
min. Earth dist.	10889 Nov 07 19:38	28° M 52'20	0.55555 AU	retrograde	10890 Oct 08 12:33	12° M 20'36	
inferior conj	10889 Nov 09 16:43	27° M 45'41	-5°47'03	evening set	10890 Oct 11 13:33	11° M 59'52	
minimum elong	10889 Nov 09 17:25	27° M 44'38	5°46'33	min. Earth dist.	10890 Oct 20 02:34	8° M 15'22	0.54694 AU
morning rise	10889 Nov 18 03:33	23° M 52'13		inferior conj	10890 Oct 20 12:11	8° M 01'55	-5°23'09
direct	10889 Nov 20 23:19	23° M 32'34		minimum elong	10890 Oct 20 04:50	8° M 12'13	5°21'39
morning max el	10889 Dec 01 14:08	28° M 34'22	20°17'26	morning rise	10890 Oct 28 21:28	4° M 14'42	
	10889 Dec 03 00:03	0° J		direct	10890 Nov 01 10:02	3° M 47'27	
asc. node	10889 Dec 05 22:34	3° J 30'27		morning max el	10890 Nov 13 13:35	9° M 32'40	21°49'09
morning set	10889 Dec 20 00:44	28° J 19'41		asc. node	10890 Nov 22 19:32	21° M 13'44	
	10889 Dec 20 20:17	0° B			10890 Nov 27 21:30	0° J	
				morning set	10890 Dec 04 10:39	13° J 05'41	
superior conj	10889 Dec 27 15:04	13° B 54'34	1°22'44				
minimum elong	10889 Dec 27 17:36	14° B 07'21	1°23'05	superior conj	10890 Dec 11 14:17	28° J 14'01	1°34'30
max. Earth dist.	10890 Jan 02 04:07	24° B 48'08	1.36560 AU	minimum elong	10890 Dec 11 15:46	28° J 21'49	1°35'01
	10890 Jan 04 22:38	0° \approx			10890 Dec 12 10:33	0° B	
evening rise	10890 Jan 05 23:28	1° \approx 53'50		max. Earth dist.	10890 Dec 15 16:36	6° B 40'42	1.34657 AU
desc. node	10890 Jan 08 12:30	6° \approx 27'20		evening rise	10890 Dec 19 23:11	15° B 05'16	
	10890 Jan 23 02:48	0° $\cancel{\text{H}}$		desc. node	10890 Dec 26 09:26	26° B 51'36	
evening max el	10890 Feb 10 12:47	23° $\cancel{\text{H}}$ 09'27	25°52'12		10890 Dec 28 05:03	0° \approx	
	10890 Feb 20 17:02	0° Υ			10891 Jan 17 18:36	0° $\cancel{\text{H}}$	
retrograde	10890 Feb 23 01:16	0° Υ 19'16		evening max el	10891 Jan 24 02:14	6° $\cancel{\text{H}}$ 51'59	26°49'01
	10890 Feb 25 06:52	30° $\text{R}\cancel{\text{H}}$		retrograde	10891 Feb 06 06:32	14° $\cancel{\text{H}}$ 13'35	

evening set	10891 Feb 12 18:49	11° K 39'58			10891 Dec 04 01:43	0° Z	
min. Earth dist.	10891 Feb 16 19:23	7° K 40'10	0.65974 AU	desc. node	10891 Dec 13 06:26	17° Z 00'32	
inferior conj	10891 Feb 18 19:32	5° K 19'44	0°01'03		10891 Dec 21 08:34	0° \approx	
minimum elong	10891 Feb 18 19:30	5° K 19'51	0°01'20	evening max el	10892 Jan 06 15:03	20° \approx 17'52	27°23'46
transit middle	10891 Feb 18 19:30	5° K 19'51	0°01'20	retrograde	10892 Jan 20 05:40	27° \approx 41'36	
transit begin	10891 Feb 18 16:34	5° K 28'27		evening set	10892 Jan 27 02:06	25° \approx 09'39	
transit end	10891 Feb 18 22:26	5° K 11'16		min. Earth dist.	10892 Jan 30 21:59	21° \approx 41'52	0.64347 AU
asc. node	10891 Feb 18 18:15	5° K 23'29		inferior conj	10892 Feb 02 09:38	19° \approx 03'35	-1°04'26
	10891 Feb 24 08:40	30° R \approx		minimum elong	10892 Feb 02 11:38	18° \approx 58'17	1°03'10
morning rise	10891 Feb 24 21:22	29° \approx 42'02		asc. node	10892 Feb 05 15:31	15° \approx 50'57	
direct	10891 Feb 27 18:07	28° \approx 56'54		morning rise	10892 Feb 08 23:03	13° \approx 39'41	
	10891 Mar 03 05:14	0° K		direct	10892 Feb 11 11:21	13° \approx 07'30	
morning max el	10891 Mar 06 04:21	2° K 21'12	18°13'17	morning max el	10892 Feb 17 21:30	16° \approx 27'48	17°51'38
desc. node	10891 Mar 24 10:08	28° K 53'53			10892 Feb 27 16:32	0° K	
morning set	10891 Mar 25 07:57	0° Y 21'44		morning set	10892 Mar 05 22:32	12° K 05'08	
	10891 Mar 25 02:33	0° Y		desc. node	10892 Mar 10 06:51	19° K 22'17	
					10892 Mar 16 17:49	0° Y	
superior conj	10891 Apr 09 14:34	24° Y 37'55	-1°42'52				
minimum elong	10891 Apr 09 05:05	24° Y 00'44	1°42'11	superior conj	10892 Mar 19 08:44	4° Y 14'08	-1°04'27
max. Earth dist.	10891 Apr 11 09:30	27° Y 25'59	1.45656 AU	minimum elong	10892 Mar 19 01:46	3° Y 46'07	1°03'31
	10891 Apr 13 00:55	0° B		max. Earth dist.	10892 Mar 24 04:45	11° Y 55'59	1.45103 AU
evening rise	10891 Apr 25 15:59	19° B 40'55		evening rise	10892 Apr 04 05:28	29° Y 04'20	
	10891 May 02 07:11	0° II			10892 Apr 04 20:00	0° B	
greatest brilliancy	10891 May 07 03:42	7° II 27'14	-0.7m	greatest brilliancy	10892 Apr 19 06:38	21° B 41'00	-0.6m
asc. node	10891 May 17 16:04	21° II 59'16			10892 Apr 25 05:10	0° II	
evening max el	10891 May 19 06:13	23° II 41'53	19°12'40	evening max el	10892 May 01 10:08	7° II 25'05	20°08'35
retrograde	10891 May 26 05:25	27° II 36'03		asc. node	10892 May 03 13:16	9° II 22'25	
evening set	10891 May 29 17:57	26° II 23'46		retrograde	10892 May 09 04:01	11° II 52'45	
inferior conj	10891 Jun 04 04:39	20° II 34'43	3°16'14	evening set	10892 May 13 01:40	10° II 24'41	
minimum elong	10891 Jun 04 05:07	20° II 33'10	3°15'37	inferior conj	10892 May 18 09:05	4° II 22'16	3°15'06
min. Earth dist.	10891 Jun 05 15:48	18° II 40'54	0.66673 AU	minimum elong	10892 May 18 08:28	4° II 24'23	3°14'34
morning rise	10891 Jun 09 15:48	14° II 13'18		min. Earth dist.	10892 May 19 05:53	3° II 11'34	0.67804 AU
direct	10891 Jun 15 20:15	11° II 31'13			10892 May 21 17:54	30° R B	
desc. node	10891 Jun 20 10:33	12° II 44'19		morning rise	10892 May 23 14:57	28° B 02'52	
morning max el	10891 Jun 28 12:10	19° II 05'25	26°03'30	direct	10892 May 29 08:03	25° B 30'26	
	10891 Jul 07 18:12	0° B		desc. node	10892 Jun 06 07:33	29° B 08'55	
	10891 Jul 27 13:00	0° Q			10892 Jun 07 07:45	0° II	
morning set	10891 Aug 03 12:52	12° Q 25'29		morning max el	10892 Jun 09 21:57	2° II 27'24	24°40'31
max. Earth dist.	10891 Aug 07 08:50	19° Q 40'05	1.35242 AU		10892 Jun 30 20:33	0° B	
				morning set	10892 Jul 15 17:42	24° B 19'49	
superior conj	10891 Aug 12 19:23	0° P 28'03	-0°08'15		10892 Jul 18 21:54	0° Q	
minimum elong	10891 Aug 12 19:53	0° P 30'35	0°08'30	max. Earth dist.	10892 Jul 19 07:59	0° Q 45'51	1.37337 AU
behind sun begin	10891 Aug 12 14:42	0° P 04'14					
behind sun end	10891 Aug 13 01:04	0° P 56'59		superior conj	10892 Jul 26 04:00	13° Q 38'24	-0°41'00
	10891 Aug 12 13:52	0° P		minimum elong	10892 Jul 26 06:41	13° Q 51'27	0°40'59
asc. node	10891 Aug 13 15:41	2° P 11'41		asc. node	10892 Jul 30 12:32	22° Q 14'01	
evening rise	10891 Aug 20 13:09	16° P 28'44			10892 Aug 03 09:31	0° P	
	10891 Aug 27 09:24	0° Q		evening rise	10892 Aug 03 16:14	0° P 33'36	
evening max el	10891 Sep 07 22:01	16° Q 41'21	20°29'04	evening max el	10892 Aug 20 11:38	28° P 04'24	19°21'47
desc. node	10891 Sep 16 08:27	21° Q 53'31			10892 Aug 22 16:05	0° Q	
retrograde	10891 Sep 19 00:37	22° Q 12'12		retrograde	10892 Aug 29 21:28	2° Q 45'00	
evening set	10891 Sep 21 02:32	22° Q 01'26		evening set	10892 Aug 31 17:36	2° Q 35'04	
inferior conj	10891 Sep 30 04:54	18° Q 04'52	-4°03'45	desc. node	10892 Sep 02 05:47	2° Q 12'55	
minimum elong	10891 Sep 29 19:06	18° Q 19'05	4°00'39		10892 Sep 06 22:28	30° R P	
min. Earth dist.	10891 Oct 01 10:58	17° Q 21'09	0.54745 AU	inferior conj	10892 Sep 09 09:08	28° P 27'18	-2°13'05
morning rise	10891 Oct 08 11:11	14° Q 02'59		minimum elong	10892 Sep 09 03:14	28° P 36'56	2°10'54
direct	10891 Oct 12 18:39	13° Q 23'01		min. Earth dist.	10892 Sep 11 22:45	26° P 47'04	0.55732 AU
morning max el	10891 Oct 26 03:14	19° Q 51'51	23°34'52	morning rise	10892 Sep 17 10:15	23° P 53'37	
	10891 Nov 03 15:12	0° M		direct	10892 Sep 22 13:34	22° P 53'36	
asc. node	10891 Nov 09 16:27	9° M 41'51		morning max el	10892 Oct 06 14:30	29° P 58'44	25°19'52
morning set	10891 Nov 18 22:18	27° M 53'35			10892 Oct 06 15:02	0° Q	
	10891 Nov 19 21:56	0° X		asc. node	10892 Oct 26 13:19	28° Q 43'39	
					10892 Oct 27 05:18	0° M	
superior conj	10891 Nov 25 19:56	12° X 49'58	1°39'24	morning set	10892 Nov 02 09:54	12° M 38'14	
minimum elong	10891 Nov 25 20:13	12° X 51'34	1°39'57				
max. Earth dist.	10891 Nov 28 12:52	18° X 37'49	1.33144 AU	superior conj	10892 Nov 09 05:32	27° M 34'45	1°38'02
evening rise	10891 Dec 03 11:27	28° X 49'01		minimum elong	10892 Nov 09 04:44	27° M 30'19	1°38'28

	10892 Nov 10 07:56	0°♊		max. Earth dist.	10893 Oct 25 00:47	13°♍05'08	1.31529 AU
max. Earth dist.	10892 Nov 10 16:28	0°♊46'46	1.32096 AU	evening rise	10893 Oct 31 13:20	27°♍20'28	
evening rise	10892 Nov 16 09:04	12°♊56'29			10893 Nov 01 19:44	0°♊	
	10892 Nov 25 05:09	0°♊		desc. node	10893 Nov 16 00:38	26°♊01'33	
desc. node	10892 Nov 29 03:30	6°♊46'54			10893 Nov 18 15:10	0°♊	
	10892 Dec 15 21:06	0°♋		evening max el	10893 Dec 01 06:53	15°♊29'27	27°02'25
evening max el	10892 Dec 19 01:29	3°♋14'38	27°29'49	retrograde	10893 Dec 15 04:49	22°♊39'47	
retrograde	10893 Jan 01 21:33	10°♋33'12		evening set	10893 Dec 22 01:55	20°♊36'52	
evening set	10893 Jan 08 21:39	8°♋11'15		min. Earth dist.	10893 Dec 25 21:22	17°♊55'59	0.60351 AU
min. Earth dist.	10893 Jan 12 15:04	5°♋11'01	0.62437 AU	inferior conj	10893 Dec 29 01:02	15°♊18'49	-3°33'47
inferior conj	10893 Jan 15 12:37	2°♋26'16	-2°17'24	minimum elong	10893 Dec 29 08:10	15°♊03'58	3°30'47
minimum elong	10893 Jan 15 17:12	2°♋15'22	2°15'02	morning rise	10894 Jan 05 17:05	10°♊31'32	
	10893 Jan 18 05:20	30°♋♊		direct	10894 Jan 07 20:08	10°♊13'52	
morning rise	10893 Jan 22 15:11	27°♊19'02		asc. node	10894 Jan 09 09:51	10°♊23'53	
asc. node	10893 Jan 22 12:44	27°♊21'08		morning max el	10894 Jan 15 05:06	13°♊54'39	18°02'09
direct	10893 Jan 24 21:18	26°♊55'55			10894 Jan 26 03:32	0°♋	
	10893 Jan 31 05:44	0°♋		morning set	10894 Jan 30 19:45	8°♋33'45	
morning max el	10893 Jan 31 14:53	0°♋21'56	17°47'32				
morning set	10893 Feb 16 12:36	24°♋55'34		superior conj	10894 Feb 09 19:35	26°♋47'40	0°16'52
	10893 Feb 19 09:38	0°♌		minimum elong	10894 Feb 09 20:57	26°♋53'44	0°17'01
desc. node	10893 Feb 25 03:33	9°♌58'27			10894 Feb 11 15:22	0°♌	
				desc. node	10894 Feb 12 00:19	0°♌39'00	
superior conj	10893 Feb 28 01:50	14°♌56'08	-0°22'04	max. Earth dist.	10894 Feb 17 10:17	9°♌52'05	1.42112 AU
minimum elong	10893 Feb 27 23:41	14°♌47'03	0°21'32	evening rise	10894 Feb 22 21:36	18°♌47'43	
max. Earth dist.	10893 Mar 06 21:29	26°♌09'00	1.43879 AU		10894 Mar 02 02:05	0°♍	
	10893 Mar 09 07:12	0°♍			10894 Mar 23 15:30	0°♍	
evening rise	10893 Mar 14 18:41	8°♍35'38		evening max el	10894 Mar 28 01:56	4°♍54'32	22°34'47
	10893 Mar 29 01:26	0°♍		retrograde	10894 Apr 06 23:13	10°♍45'07	
evening max el	10893 Apr 14 08:27	21°♍09'08	21°17'23	asc. node	10894 Apr 07 07:44	10°♍44'30	
asc. node	10893 Apr 20 10:30	25°♍42'45		evening set	10894 Apr 11 18:04	8°♍46'06	
retrograde	10893 Apr 23 02:28	26°♍17'14		inferior conj	10894 Apr 17 02:00	2°♍23'08	2°39'50
evening set	10893 Apr 27 10:15	24°♍33'23		minimum elong	10894 Apr 16 23:58	2°♍30'12	2°39'06
inferior conj	10893 May 02 16:53	18°♍19'30	3°02'33	min. Earth dist.	10894 Apr 16 20:38	2°♍41'48	0.68687 AU
minimum elong	10893 May 02 15:24	18°♍24'40	3°01'56		10894 Apr 18 19:56	30°♌♍	
min. Earth dist.	10893 May 03 00:13	17°♍53'58	0.68474 AU	morning rise	10894 Apr 22 05:45	26°♍13'38	
morning rise	10893 May 07 20:19	12°♍04'20		direct	10894 Apr 26 20:24	24°♍18'26	
direct	10893 May 13 00:27	9°♍48'30		morning max el	10894 May 05 21:04	29°♍33'37	21°43'34
morning max el	10893 May 23 07:50	15°♍56'02	23°10'51		10894 May 06 07:29	0°♍	
desc. node	10893 May 24 04:28	16°♍49'13		desc. node	10894 May 11 01:21	5°♍24'46	
	10893 Jun 03 20:54	0°♎			10894 May 28 14:06	0°♎	
	10893 Jun 23 20:28	0°♏		morning set	10894 Jun 07 03:49	14°♎50'02	
morning set	10893 Jun 26 23:56	5°♏10'52		max. Earth dist.	10894 Jun 13 06:07	24°♎44'11	1.41845 AU
max. Earth dist.	10893 Jul 01 04:51	12°♏19'27	1.39629 AU		10894 Jun 16 09:34	0°♏	
superior conj	10893 Jul 08 22:02	26°♏06'29	-1°14'24	superior conj	10894 Jun 20 20:51	7°♏41'06	-1°44'44
minimum elong	10893 Jul 09 03:06	26°♏29'53	1°14'11	minimum elong	10894 Jun 21 03:22	8°♏09'34	1°44'39
	10893 Jul 11 00:17	0°♐		evening rise	10894 Jul 01 18:28	27°♏18'52	
asc. node	10893 Jul 17 09:25	12°♐09'21			10894 Jul 03 05:37	0°♐	
evening rise	10893 Jul 18 11:16	14°♐13'40		asc. node	10894 Jul 04 06:19	1°♐52'51	
	10893 Jul 27 01:23	0°♑		evening max el	10894 Jul 17 22:13	22°♐55'54	18°10'23
evening max el	10893 Aug 03 13:02	10°♑12'28	18°35'48	retrograde	10894 Jul 24 21:58	26°♐28'44	
retrograde	10893 Aug 11 12:15	14°♑11'53		evening set	10894 Jul 27 05:37	26°♐05'51	
evening set	10893 Aug 13 12:36	13°♑57'25		inferior conj	10894 Aug 03 07:43	21°♐17'57	1°05'16
desc. node	10893 Aug 20 03:03	10°♑27'45		minimum elong	10894 Aug 03 09:42	21°♐13'31	1°04'10
inferior conj	10893 Aug 21 09:39	9°♑30'19	-0°23'39	min. Earth dist.	10894 Aug 06 15:24	18°♐21'46	0.59617 AU
minimum elong	10893 Aug 21 08:42	9°♑32'07	0°23'32	desc. node	10894 Aug 07 00:20	18°♐03'06	
min. Earth dist.	10893 Aug 24 15:30	7°♑02'57	0.57460 AU	morning rise	10894 Aug 10 10:39	15°♐34'47	
morning rise	10893 Aug 29 01:21	4°♑19'21		direct	10894 Aug 16 20:46	13°♐39'06	
direct	10893 Sep 03 22:37	2°♑52'47		morning max el	10894 Aug 31 05:10	21°♐29'57	27°41'10
morning max el	10893 Sep 18 06:11	10°♑24'37	26°46'35		10894 Sep 07 15:21	0°♑	
	10893 Oct 03 07:31	0°♒			10894 Sep 26 07:10	0°♒	
asc. node	10893 Oct 13 10:07	18°♒10'20		asc. node	10894 Sep 30 06:53	7°♒54'16	
morning set	10893 Oct 17 19:49	27°♒15'14		morning set	10894 Oct 02 02:14	11°♒38'52	
	10893 Oct 19 02:31	0°♓		max. Earth dist.	10894 Oct 08 10:07	25°♒22'53	1.31446 AU
superior conj	10893 Oct 24 17:04	12°♓22'09	1°30'50	superior conj	10894 Oct 09 04:36	27°♒05'35	1°18'06
minimum elong	10893 Oct 24 15:24	12°♓12'54	1°31'03	minimum elong	10894 Oct 09 02:26	26°♒53'35	1°18'02

	10894 Oct 10 11:57	0°♌		superior conj	10895 Sep 23 14:21	11°♌40'01	1°00'05
evening rise	10894 Oct 15 21:54	11°♌53'36		minimum elong	10895 Sep 23 12:09	11°♌27'56	0°59'47
	10894 Oct 24 23:55	0°♏		evening rise	10895 Sep 30 08:48	26°♌30'35	
desc. node	10894 Nov 02 21:48	14°♏31'16			10895 Oct 02 00:07	0°♌	
evening max el	10894 Nov 13 04:25	26°♏51'58	26°01'12		10895 Oct 19 05:46	0°♏	
	10894 Nov 16 21:42	0°♐		desc. node	10895 Oct 20 19:02	1°♏58'57	
retrograde	10894 Nov 27 02:10	3°♐54'46		evening max el	10895 Oct 25 17:58	7°♏25'39	24°33'07
evening set	10894 Dec 03 10:27	2°♐19'26		retrograde	10895 Nov 08 12:11	14°♏19'29	
	10894 Dec 07 08:01	30°♏♏		evening set	10895 Nov 13 19:09	13°♏17'19	
min. Earth dist.	10894 Dec 07 17:11	29°♏44'10	0.58250 AU	min. Earth dist.	10895 Nov 19 05:14	10°♏29'00	0.56390 AU
inferior conj	10894 Dec 10 19:21	27°♏30'31	-4°45'06	inferior conj	10895 Nov 21 17:17	8°♏54'18	-5°35'44
minimum elong	10894 Dec 11 03:23	27°♏15'58	4°42'34	minimum elong	10895 Nov 21 22:08	8°♏46'37	5°34'40
morning rise	10894 Dec 18 22:52	23°♏05'51		morning rise	10895 Nov 30 03:17	4°♏51'19	
direct	10894 Dec 21 03:19	22°♏50'18		direct	10895 Dec 02 15:15	4°♏34'26	
asc. node	10894 Dec 27 06:56	25°♏02'07		morning max el	10895 Dec 12 09:08	9°♏13'19	19°34'16
morning max el	10894 Dec 29 12:26	26°♏55'15	18°37'10	asc. node	10895 Dec 14 03:59	11°♏04'51	
	10895 Jan 01 06:37	0°♑			10895 Dec 26 02:02	0°♑	
morning set	10895 Jan 14 14:45	22°♑43'34		morning set	10895 Dec 29 17:42	7°♑13'34	
	10895 Jan 18 08:48	0°♒					
superior conj	10895 Jan 23 10:12	9°♒37'40	0°48'44	superior conj	10896 Jan 06 16:45	23°♑11'45	1°12'35
minimum elong	10895 Jan 23 13:06	9°♒51'11	0°48'48	minimum elong	10896 Jan 06 19:41	23°♑26'08	1°12'48
desc. node	10895 Jan 29 21:06	21°♒20'07			10896 Jan 10 05:13	0°♒	
max. Earth dist.	10895 Jan 30 18:27	22°♒53'33	1.39992 AU	max. Earth dist.	10896 Jan 13 00:15	5°♒13'38	1.37776 AU
evening rise	10895 Feb 03 21:04	29°♒54'49		evening rise	10896 Jan 16 17:37	11°♒56'40	
	10895 Feb 03 22:18	0°♓		desc. node	10896 Jan 16 17:55	11°♒58'00	
	10895 Feb 23 12:16	0°♓			10896 Jan 27 14:27	0°♓	
evening max el	10895 Mar 10 16:18	18°♓42'24	23°55'17	evening max el	10896 Feb 18 18:45	0°♓	
retrograde	10895 Mar 21 17:00	25°♓11'55		retrograde	10896 Feb 21 05:36	2°♓32'10	25°12'20
asc. node	10895 Mar 25 04:58	24°♓14'42		retrograde	10896 Mar 04 06:45	9°♓31'18	
evening set	10895 Mar 26 23:37	22°♓59'10		evening set	10896 Mar 10 01:20	7°♓07'27	
min. Earth dist.	10895 Mar 31 17:04	17°♓30'08	0.68455 AU	asc. node	10896 Mar 11 02:15	6°♓10'11	
inferior conj	10895 Apr 01 10:36	16°♓30'31	2°07'33	min. Earth dist.	10896 Mar 14 11:22	2°♓13'22	0.67799 AU
minimum elong	10895 Apr 01 08:25	16°♓37'56	2°06'47	inferior conj	10896 Mar 15 16:47	0°♓37'31	1°25'52
morning rise	10895 Apr 06 17:16	10°♓27'46		minimum elong	10896 Mar 15 14:57	0°♓43'30	1°25'15
direct	10895 Apr 10 18:45	8°♓54'25			10896 Mar 16 04:20	30°♓♏	
morning max el	10895 Apr 18 16:49	13°♓23'31	20°25'43	morning rise	10896 Mar 21 04:56	24°♓42'52	
desc. node	10895 Apr 27 22:10	24°♓40'51		direct	10896 Mar 24 18:12	23°♓30'20	
	10895 May 01 16:47	0°♔		morning max el	10896 Mar 31 20:18	27°♓24'34	19°21'34
morning set	10895 May 17 09:14	23°♔31'24			10896 Apr 03 05:54	0°♓	
	10895 May 21 12:56	0°♕		greatest brilliancy	10896 Apr 13 14:54	14°♓11'10	-0.7m
max. Earth dist.	10895 May 26 14:03	8°♕01'01	1.43713 AU	desc. node	10896 Apr 13 18:56	14°♓26'06	
					10896 Apr 24 00:55	0°♔	
superior conj	10895 Jun 01 20:30	18°♕14'29	-2°06'28	morning set	10896 Apr 25 09:16	2°♔04'33	
minimum elong	10895 Jun 02 01:25	18°♕34'52	2°06'48	max. Earth dist.	10896 May 08 04:01	21°♔58'24	1.45025 AU
	10895 Jun 08 19:46	0°♖					
evening rise	10895 Jun 14 09:15	9°♖38'31		superior conj	10896 May 11 20:27	27°♔48'29	-2°12'54
asc. node	10895 Jun 21 03:17	21°♖19'50		minimum elong	10896 May 11 19:15	27°♔43'44	2°13'23
	10895 Jun 26 13:54	0°♗			10896 May 13 05:26	0°♕	
evening max el	10895 Jul 01 11:21	6°♗05'29	18°04'28	evening rise	10896 May 26 02:45	21°♕01'29	
retrograde	10895 Jul 07 22:47	9°♗26'42			10896 May 31 12:31	0°♖	
evening set	10895 Jul 10 14:18	8°♗52'19		asc. node	10896 Jun 07 00:18	10°♖23'43	
inferior conj	10895 Jul 17 00:30	3°♗45'14	2°08'47	evening max el	10896 Jun 14 01:03	19°♖32'19	18°17'07
minimum elong	10895 Jul 17 03:15	3°♗38'11	2°07'29	retrograde	10896 Jun 20 10:06	22°♖55'52	
min. Earth dist.	10895 Jul 20 00:18	0°♗42'56	0.61888 AU	evening set	10896 Jun 23 09:36	22°♖07'43	
	10895 Jul 20 18:17	30°♗♖		inferior conj	10896 Jun 29 07:47	16°♖43'17	2°49'16
morning rise	10895 Jul 23 13:54	27°♖40'19		minimum elong	10896 Jun 29 10:00	16°♖36'56	2°48'15
desc. node	10895 Jul 24 21:34	26°♖49'52		min. Earth dist.	10896 Jul 01 18:33	13°♖56'05	0.64020 AU
direct	10895 Jul 30 06:16	25°♖18'55		morning rise	10896 Jul 05 09:02	10°♖26'44	
	10895 Aug 09 18:12	0°♘		desc. node	10896 Jul 10 18:46	7°♖53'54	
morning max el	10895 Aug 13 10:39	3°♘20'44	27°57'19	direct	10896 Jul 12 01:01	7°♖48'31	
	10895 Sep 02 04:50	0°♙		morning max el	10896 Jul 25 20:02	15°♖50'21	27°36'14
morning set	10895 Sep 16 03:13	25°♙44'06			10896 Aug 06 11:12	0°♗	
asc. node	10895 Sep 17 03:40	27°♙50'04		morning set	10896 Aug 24 22:40	0°♙	
	10895 Sep 18 04:32	0°♚		asc. node	10896 Aug 29 20:22	9°♙24'11	
max. Earth dist.	10895 Sep 21 16:30	7°♚29'16	1.31857 AU	max. Earth dist.	10896 Sep 03 00:27	17°♙52'46	
					10896 Sep 03 16:03	19°♙14'15	1.32773 AU

superior conj	10896 Sep 06 20:22	25° \mathbb{M} 59'37	0°37'02	superior conj	10897 Aug 21 20:21	9° \mathbb{M} 58'07	0°09'26
minimum elong	10896 Sep 06 18:41	25° \mathbb{M} 50'38	0°36'38	minimum elong	10897 Aug 21 19:52	9° \mathbb{M} 55'33	0°09'05
	10896 Sep 08 16:54	0° \mathfrak{L}		behind sun begin	10897 Aug 21 15:04	9° \mathbb{M} 30'36	
evening rise	10896 Sep 13 20:10	11° \mathfrak{L} 05'59		behind sun end	10897 Aug 22 00:40	10° \mathbb{M} 20'33	
	10896 Sep 23 10:17	0° \mathbb{M}		evening rise	10897 Aug 29 06:05	25° \mathbb{M} 34'23	
evening max el	10896 Oct 06 04:39	17° \mathbb{M} 33'32	22°52'49		10897 Aug 31 09:18	0° \mathfrak{L}	
desc. node	10896 Oct 06 16:18	18° \mathbb{M} 01'24		evening max el	10897 Sep 17 21:26	27° \mathfrak{L} 50'30	21°17'03
retrograde	10896 Oct 19 09:37	24° \mathbb{M} 07'56			10897 Sep 20 07:31	0° \mathbb{M}	
evening set	10896 Oct 23 05:47	23° \mathbb{M} 35'47		desc. node	10897 Sep 23 13:38	2° \mathbb{M} 09'01	
min. Earth dist.	10896 Oct 30 13:20	20° \mathbb{M} 16'16	0.55079 AU	retrograde	10897 Sep 29 21:35	3° \mathbb{M} 48'09	
inferior conj	10896 Oct 31 20:25	19° \mathbb{M} 31'43	-5°44'14	evening set	10897 Oct 02 10:42	3° \mathbb{M} 33'09	
minimum elong	10896 Oct 31 17:29	19° \mathbb{M} 35'56	5°43'37		10897 Oct 10 21:03	30° \mathbb{R} \mathfrak{L}	
morning rise	10896 Nov 09 06:52	15° \mathbb{M} 42'44		inferior conj	10897 Oct 11 12:51	29° \mathfrak{L} 37'51	-4°55'22
direct	10896 Nov 12 09:10	15° \mathbb{M} 20'25		minimum elong	10897 Oct 11 03:29	29° \mathfrak{L} 51'00	4°53'00
morning max el	10896 Nov 23 16:21	20° \mathbb{M} 41'03	20°54'03	min. Earth dist.	10897 Oct 11 20:35	29° \mathfrak{L} 27'01	0.54594 AU
asc. node	10896 Nov 30 00:59	28° \mathbb{M} 16'15		morning rise	10897 Oct 19 20:56	25° \mathfrak{L} 47'03	
	10896 Dec 01 05:07	0° \mathfrak{X}		direct	10897 Oct 23 17:40	25° \mathfrak{L} 14'52	
morning set	10896 Dec 13 01:47	21° \mathfrak{X} 56'02			10897 Nov 03 22:56	0° \mathbb{M}	
	10896 Dec 16 22:33	0° \mathfrak{Z}		morning max el	10897 Nov 05 10:40	1° \mathbb{M} 19'12	22°33'09
				asc. node	10897 Nov 16 21:57	16° \mathbb{M} 20'01	
superior conj	10896 Dec 20 10:58	7° \mathfrak{Z} 18'02	1°28'36		10897 Nov 24 06:48	0° \mathfrak{X}	
minimum elong	10896 Dec 20 13:06	7° \mathfrak{Z} 28'58	1°29'01	morning set	10897 Nov 27 12:42	6° \mathfrak{X} 43'26	
max. Earth dist.	10896 Dec 25 09:05	17° \mathfrak{Z} 10'44	1.35708 AU				
evening rise	10896 Dec 29 08:35	24° \mathfrak{Z} 46'19		superior conj	10897 Dec 04 13:14	21° \mathfrak{X} 45'11	1°37'22
	10897 Jan 01 05:16	0° \approx		minimum elong	10897 Dec 04 14:13	21° \mathfrak{X} 50'26	1°37'55
desc. node	10897 Jan 02 14:49	2° \approx 28'56		max. Earth dist.	10897 Dec 08 00:58	29° \mathfrak{X} 04'31	1.33963 AU
	10897 Jan 20 03:59	0° \mathfrak{H}			10897 Dec 08 11:44	0° \mathfrak{Z}	
evening max el	10897 Feb 02 19:11	16° \mathfrak{H} 20'34	26°18'40	evening rise	10897 Dec 12 14:05	8° \mathfrak{Z} 12'44	
retrograde	10897 Feb 15 15:24	23° \mathfrak{H} 37'03		desc. node	10897 Dec 20 11:46	22° \mathfrak{Z} 47'28	
evening set	10897 Feb 21 21:31	21° \mathfrak{H} 05'50			10897 Dec 24 18:33	0° \approx	
asc. node	10897 Feb 25 23:32	16° \mathfrak{H} 51'43			10898 Jan 16 09:30	0° \mathfrak{H}	
min. Earth dist.	10897 Feb 26 01:22	16° \mathfrak{H} 46'13	0.66750 AU	evening max el	10898 Jan 16 08:45	29° \approx 58'12	27°06'56
inferior conj	10897 Feb 27 18:36	14° \mathfrak{H} 40'14	0°34'46	retrograde	10898 Jan 29 18:00	7° \mathfrak{H} 20'57	
minimum elong	10897 Feb 27 17:42	14° \mathfrak{H} 42'57	0°34'37	evening set	10898 Feb 05 10:07	4° \mathfrak{H} 47'30	
morning rise	10897 Mar 05 14:43	8° \mathfrak{H} 55'25		min. Earth dist.	10898 Feb 09 08:41	1° \mathfrak{H} 01'28	0.65328 AU
direct	10897 Mar 08 17:04	8° \mathfrak{H} 01'09			10898 Feb 10 06:46	30° \mathbb{R} \approx	
morning max el	10897 Mar 15 06:51	11° \mathfrak{H} 33'01	18°33'20	inferior conj	10898 Feb 11 13:42	28° \approx 32'34	-0°25'39
	10897 Mar 28 17:50	0° \mathbb{Y}		minimum elong	10898 Feb 11 14:26	28° \approx 30'29	0°24'58
desc. node	10897 Mar 31 15:41	4° \mathbb{Y} 32'48		asc. node	10898 Feb 12 20:49	27° \approx 06'26	
morning set	10897 Apr 05 03:00	11° \mathbb{Y} 35'00		morning rise	10898 Feb 17 20:11	23° \approx 00'07	
	10897 Apr 16 20:32	0° \mathfrak{B}		direct	10898 Feb 20 13:12	22° \approx 20'49	
				morning max el	10898 Feb 26 22:20	25° \approx 41'59	18°01'53
superior conj	10897 Apr 21 04:42	6° \mathfrak{B} 47'15	-1°59'20		10898 Mar 02 14:59	0° \mathfrak{H}	
minimum elong	10897 Apr 20 20:39	6° \mathfrak{B} 15'48	1°59'08	morning set	10898 Mar 17 01:25	22° \mathfrak{H} 31'22	
max. Earth dist.	10897 Apr 20 22:23	6° \mathfrak{B} 22'33	1.45648 AU	desc. node	10898 Mar 18 12:23	24° \mathfrak{H} 54'26	
	10897 May 05 22:48	0° \mathbb{I}			10898 Mar 21 15:22	0° \mathbb{Y}	
evening rise	10897 May 06 20:13	1° \mathbb{I} 25'00		superior conj	10898 Mar 31 14:03	15° \mathbb{Y} 55'39	-1°27'39
greatest brilliancy	10897 May 15 08:43	14° \mathbb{I} 55'16	-0.8m	minimum elong	10898 Mar 31 05:01	15° \mathbb{Y} 19'56	1°26'45
asc. node	10897 May 24 21:25	28° \mathbb{I} 56'56		max. Earth dist.	10898 Apr 03 18:32	20° \mathbb{Y} 56'36	1.45519 AU
	10897 May 25 17:18	0° \mathfrak{E}			10898 Apr 09 13:50	0° \mathfrak{B}	
evening max el	10897 May 28 12:32	3° \mathfrak{E} 09'43	18°47'33	evening rise	10898 Apr 16 16:53	11° \mathfrak{B} 01'51	
retrograde	10897 Jun 04 04:06	6° \mathfrak{E} 48'49			10898 Apr 29 03:07	0° \mathbb{I}	
evening set	10897 Jun 07 11:49	5° \mathfrak{E} 45'29		greatest brilliancy	10898 Apr 30 02:16	1° \mathbb{I} 26'08	-0.7m
inferior conj	10897 Jun 13 01:45	0° \mathfrak{E} 05'06	3°10'50	asc. node	10898 May 11 18:34	16° \mathbb{I} 49'18	
minimum elong	10897 Jun 13 02:54	0° \mathfrak{E} 01'31	3°10'08	evening max el	10898 May 11 19:37	16° \mathbb{I} 51'56	19°34'41
	10897 Jun 13 03:23	30° \mathbb{R} \mathbb{I}		retrograde	10898 May 19 01:45	20° \mathbb{I} 58'48	
min. Earth dist.	10897 Jun 14 21:33	27° \mathbb{I} 48'55	0.65831 AU	evening set	10898 May 22 18:11	19° \mathbb{I} 39'37	
morning rise	10897 Jun 18 17:15	23° \mathbb{I} 44'15		inferior conj	10898 May 28 03:08	13° \mathbb{I} 44'42	3°17'14
direct	10897 Jun 25 03:15	21° \mathbb{I} 00'27		minimum elong	10898 May 28 03:08	13° \mathbb{I} 44'44	3°16'40
desc. node	10897 Jun 27 15:54	21° \mathbb{I} 22'33		min. Earth dist.	10898 May 29 08:02	12° \mathbb{I} 08'58	0.67216 AU
morning max el	10897 Jul 08 06:41	28° \mathbb{I} 48'26	26°44'03	morning rise	10898 Jun 02 11:43	7° \mathbb{I} 24'04	
	10897 Jul 09 10:17	0° \mathfrak{E}		direct	10898 Jun 08 11:40	4° \mathbb{I} 45'15	
	10897 Jul 31 06:58	0° \mathfrak{O}		desc. node	10898 Jun 14 12:58	6° \mathbb{I} 51'42	
morning set	10897 Aug 13 02:36	22° \mathfrak{O} 31'09		morning max el	10898 Jun 20 16:59	12° \mathbb{I} 04'31	25°29'38
	10897 Aug 16 22:56	0° \mathbb{M}			10898 Jul 05 02:01	0° \mathfrak{E}	
max. Earth dist.	10897 Aug 17 05:53	0° \mathbb{M} 34'36	1.34207 AU		10898 Jul 23 23:47	0° \mathfrak{O}	
asc. node	10897 Aug 20 21:14	7° \mathbb{M} 58'14					

morning set	10898 Jul 26 18:04	4°♎55'39		max. Earth dist.	10899 Jul 12 07:39	22°♊57'05	1.38306 AU
max. Earth dist.	10898 Jul 30 09:56	11°♎41'26	1.36099 AU		10899 Jul 16 04:56	0°♎	
superior conj	10898 Aug 05 11:34	23°♎28'44	-0°21'52	superior conj	10899 Jul 19 14:25	6°♎21'54	-0°55'16
minimum elong	10898 Aug 05 12:56	23°♎35'34	0°22'01	minimum elong	10899 Jul 19 18:08	6°♎39'36	0°55'09
asc. node	10898 Aug 07 18:03	28°♎03'03		asc. node	10899 Jul 25 14:52	18°♎02'47	
	10898 Aug 08 17:03	0°♎		evening rise	10899 Jul 28 12:28	23°♎45'46	
evening rise	10898 Aug 13 12:25	9°♎50'21			10899 Jul 31 17:18	0°♎	
	10898 Aug 24 08:14	0°♎		evening max el	10899 Aug 13 21:52	20°♎28'11	18°59'33
evening max el	10898 Aug 31 02:57	8°♎45'53	19°57'46	retrograde	10899 Aug 22 16:01	24°♎50'11	
retrograde	10898 Sep 10 11:49	13°♎55'05		evening set	10899 Aug 24 13:04	24°♎38'56	
desc. node	10898 Sep 10 10:58	13°♎55'05		desc. node	10899 Aug 28 08:18	23°♎14'52	
evening set	10898 Sep 12 09:42	13°♎45'21		inferior conj	10899 Sep 01 21:08	20°♎23'14	-1°24'57
inferior conj	10898 Sep 21 08:52	9°♎45'06	-3°18'34	minimum elong	10899 Sep 01 17:29	20°♎29'37	1°23'39
minimum elong	10898 Sep 21 00:15	9°♎58'09	3°15'32	min. Earth dist.	10899 Sep 04 19:27	18°♎21'15	0.56392 AU
min. Earth dist.	10898 Sep 23 05:48	8°♎37'08	0.55059 AU	morning rise	10899 Sep 09 18:45	15°♎33'19	
morning rise	10898 Sep 29 13:27	5°♎31'38		direct	10899 Sep 15 05:51	14°♎22'55	
direct	10898 Oct 04 05:25	4°♎44'14		morning max el	10899 Sep 29 10:58	21°♎40'45	26°00'05
morning max el	10898 Oct 17 22:13	11°♎28'44	24°20'47		10899 Oct 06 18:16	0°♎	
	10898 Oct 31 21:42	0°♎		asc. node	10899 Oct 21 15:39	24°♎16'34	
asc. node	10898 Nov 03 18:50	5°♎03'37			10899 Oct 24 12:31	0°♎	
morning set	10898 Nov 12 00:32	21°♎30'30		morning set	10899 Oct 27 11:36	6°♎12'14	
	10898 Nov 15 22:27	0°♎					
superior conj	10898 Nov 18 20:49	6°♎25'22	1°39'33	superior conj	10899 Nov 03 07:28	21°♎11'38	1°35'40
minimum elong	10898 Nov 18 20:38	6°♎24'20	1°40'05	minimum elong	10899 Nov 03 06:15	21°♎04'57	1°36'02
max. Earth dist.	10898 Nov 21 00:47	11°♎07'16	1.32641 AU	max. Earth dist.	10899 Nov 04 06:41	23°♎20'14	1.31789 AU
evening rise	10898 Nov 26 06:40	22°♎07'05			10899 Nov 07 07:40	0°♎	
	10898 Nov 30 06:36	0°♎		evening rise	10899 Nov 10 07:21	6°♎21'44	
desc. node	10898 Dec 07 08:47	12°♎47'38			10899 Nov 22 19:36	0°♎	
	10898 Dec 18 14:17	0°♎		desc. node	10899 Nov 24 05:53	2°♎21'44	
evening max el	10898 Dec 29 20:50	13°♎13'02	27°30'07	evening max el	10899 Dec 12 05:11	25°♎52'18	27°22'22
retrograde	10899 Jan 12 13:52	20°♎34'30			10899 Dec 17 07:02	0°♎	
evening set	10899 Jan 19 12:44	18°♎05'37		retrograde	10899 Dec 26 02:21	3°♎08'13	
min. Earth dist.	10899 Jan 23 07:13	14°♎50'33	0.63572 AU	evening set	10900 Jan 02 02:18	0°♎52'50	
inferior conj	10899 Jan 25 23:25	12°♎08'04	-1°34'37		10900 Jan 03 09:10	30°♎	
minimum elong	10899 Jan 26 02:28	12°♎00'19	1°32'52	min. Earth dist.	10900 Jan 05 19:36	28°♎02'28	0.61558 AU
asc. node	10899 Jan 30 18:03	7°♎54'42		inferior conj	10900 Jan 08 20:35	25°♎18'45	-2°49'46
morning rise	10899 Feb 01 18:17	6°♎50'55		minimum elong	10900 Jan 09 02:20	25°♎05'50	2°47'03
direct	10899 Feb 04 03:46	6°♎22'57		morning rise	10900 Jan 16 05:00	20°♎20'03	
morning max el	10899 Feb 10 15:57	9°♎44'08	17°47'41	asc. node	10900 Jan 17 15:13	20°♎02'13	
	10899 Feb 24 08:11	0°♎		direct	10900 Jan 18 09:20	19°♎59'44	
morning set	10899 Feb 27 02:45	4°♎45'39		morning max el	10900 Jan 25 08:29	23°♎30'47	17°51'29
desc. node	10899 Mar 05 09:04	15°♎26'30			10900 Jan 30 12:22	0°♎	
				morning set	10900 Feb 10 00:50	17°♎58'43	
superior conj	10899 Mar 11 17:10	25°♎57'46	-0°46'24		10900 Feb 16 18:00	0°♎	
minimum elong	10899 Mar 11 12:15	25°♎37'39	0°45'36	desc. node	10900 Feb 20 05:47	6°♎05'15	
	10899 Mar 14 04:49	0°♎					
max. Earth dist.	10899 Mar 17 13:27	5°♎22'56	1.44662 AU	superior conj	10900 Feb 20 21:06	7°♎11'04	-0°04'53
evening rise	10899 Mar 27 04:16	20°♎23'43		minimum elong	10900 Feb 20 20:41	7°♎09'17	0°04'32
	10899 Apr 02 11:56	0°♎		behind sun begin	10900 Feb 20 12:30	6°♎34'08	
	10899 Apr 24 07:26	0°♎		behind sun end	10900 Feb 21 04:52	7°♎44'22	
evening max el	10899 Apr 24 21:02	0°♎35'05	20°36'27	max. Earth dist.	10900 Feb 28 04:26	19°♎24'28	1.43176 AU
asc. node	10899 Apr 28 15:46	3°♎47'32		evening rise	10900 Mar 06 21:58	0°♎09'35	
retrograde	10899 May 03 00:34	5°♎19'27			10900 Mar 06 19:31	0°♎	
evening set	10899 May 07 02:28	3°♎44'25			10900 Mar 27 02:17	0°♎	
	10899 May 10 14:39	30°♎		evening max el	10900 Apr 07 17:00	14°♎19'36	21°49'30
inferior conj	10899 May 12 09:14	27°♎36'38	3°11'06	asc. node	10900 Apr 15 13:00	19°♎36'59	
minimum elong	10899 May 12 08:13	27°♎40'08	3°10'31	retrograde	10900 Apr 16 22:38	19°♎46'32	
min. Earth dist.	10899 May 13 00:06	26°♎45'27	0.68145 AU	evening set	10900 Apr 21 10:56	17°♎56'08	
morning rise	10899 May 17 13:45	21°♎18'53		inferior conj	10900 Apr 26 17:52	11°♎37'47	2°54'09
direct	10899 May 23 01:20	18°♎53'10		minimum elong	10900 Apr 26 16:06	11°♎43'56	2°53'28
desc. node	10899 Jun 01 09:56	23°♎51'24		min. Earth dist.	10900 Apr 26 19:42	11°♎31'23	0.68617 AU
morning max el	10899 Jun 03 02:43	25°♎30'05	24°02'39	morning rise	10900 May 01 21:06	5°♎24'40	
	10899 Jun 07 04:56	0°♎		direct	10900 May 06 19:24	3°♎17'24	
	10899 Jun 28 14:09	0°♎		morning max el	10900 May 16 13:43	9°♎03'07	22°32'54
morning set	10899 Jul 08 13:52	16°♎24'28		desc. node	10900 May 19 06:48	11°♎57'48	
					10900 Jun 01 23:19	0°♎	

morning set	10900 Jun 19 09:08	26° Π 45'49		desc. node	10901 May 06 03:38	0° \mathcal{B} 52'16	
	10900 Jun 21 08:19	0° \mathcal{B}			10901 May 26 06:28	0° Π	
max. Earth dist.	10900 Jun 24 05:22	4° \mathcal{B} 49'23	1.40599 AU	morning set	10901 May 30 02:16	5° Π 56'50	
				max. Earth dist.	10901 Jun 06 08:54	17° Π 35'28	1.42700 AU
superior conj	10900 Jul 02 00:48	18° \mathcal{B} 28'21	-1°27'57	superior conj	10901 Jun 13 14:12	29° Π 38'13	-1°55'24
minimum elong	10900 Jul 02 06:42	18° \mathcal{B} 54'58	1°27'44	minimum elong	10901 Jun 13 20:33	0° \mathcal{B} 05'19	1°55'28
	10900 Jul 08 07:07	0° \mathcal{Q}			10901 Jun 13 19:19	0° \mathcal{B}	
evening rise	10900 Jul 12 02:58	7° \mathcal{Q} 12'19		evening rise	10901 Jun 25 03:46	19° \mathcal{B} 59'33	
asc. node	10900 Jul 12 11:45	7° \mathcal{Q} 53'42		asc. node	10901 Jun 29 08:42	27° \mathcal{B} 31'08	
	10900 Jul 25 14:09	0° \mathcal{M}			10901 Jun 30 18:33	0° \mathcal{Q}	
evening max el	10900 Jul 28 03:04	2° \mathcal{M} 52'35	18°22'32	evening max el	10901 Jul 11 14:29	15° \mathcal{Q} 49'07	18°05'35
retrograde	10900 Aug 04 15:03	6° \mathcal{M} 38'49		retrograde	10901 Jul 18 07:32	19° \mathcal{Q} 14'49	
evening set	10900 Aug 06 18:12	6° \mathcal{M} 21'20		evening set	10901 Jul 20 18:37	18° \mathcal{Q} 47'18	
inferior conj	10900 Aug 14 07:01	1° \mathcal{M} 45'37	0°17'10	inferior conj	10901 Jul 27 13:31	13° \mathcal{Q} 51'15	1°35'15
minimum elong	10900 Aug 14 07:37	1° \mathcal{M} 44'23	0°16'36	minimum elong	10901 Jul 27 16:03	13° \mathcal{Q} 45'15	1°33'58
desc. node	10900 Aug 15 05:35	0° \mathcal{M} 59'19		min. Earth dist.	10901 Jul 30 18:53	10° \mathcal{Q} 49'35	0.60593 AU
	10900 Aug 16 10:35	30° \mathcal{R} \mathcal{Q}		desc. node	10901 Aug 02 02:49	8° \mathcal{Q} 53'22	
min. Earth dist.	10900 Aug 17 15:19	29° \mathcal{Q} 02'59	0.58347 AU	morning rise	10901 Aug 03 10:41	7° \mathcal{Q} 57'46	
morning rise	10900 Aug 21 17:30	26° \mathcal{Q} 19'35		direct	10901 Aug 10 00:32	5° \mathcal{Q} 50'05	
direct	10900 Aug 27 21:00	24° \mathcal{Q} 40'13		morning max el	10901 Aug 24 07:27	13° \mathcal{Q} 46'30	27°52'42
	10900 Sep 08 15:12	0° \mathcal{M}			10901 Sep 06 07:38	0° \mathcal{M}	
morning max el	10900 Sep 11 05:41	2° \mathcal{M} 21'59	27°14'12		10901 Sep 23 13:43	0° \mathcal{Q}	
	10900 Oct 01 04:17	0° \mathcal{Q}		asc. node	10901 Sep 25 09:11	3° \mathcal{Q} 41'11	
asc. node	10900 Oct 08 12:25	13° \mathcal{Q} 51'10		morning set	10901 Sep 26 00:35	5° \mathcal{Q} 00'55	
morning set	10900 Oct 11 20:12	20° \mathcal{Q} 43'57		max. Earth dist.	10901 Oct 02 00:09	17° \mathcal{Q} 52'49	1.31560 AU
	10900 Oct 16 02:44	0° \mathcal{M}					
superior conj	10900 Oct 18 19:12	5° \mathcal{M} 58'04	1°26'05	superior conj	10901 Oct 03 06:15	20° \mathcal{Q} 39'09	1°11'06
minimum elong	10900 Oct 18 17:17	5° \mathcal{M} 47'21	1°26'11	minimum elong	10901 Oct 03 04:01	20° \mathcal{Q} 26'44	1°10'56
max. Earth dist.	10900 Oct 18 15:39	5° \mathcal{M} 38'16	1.31428 AU		10901 Oct 07 11:33	0° \mathcal{M}	
evening rise	10900 Oct 25 13:40	20° \mathcal{M} 50'05		evening rise	10901 Oct 09 23:31	5° \mathcal{M} 26'24	
	10900 Oct 30 00:14	0° \mathcal{X}			10901 Oct 22 18:20	0° \mathcal{X}	
desc. node	10900 Nov 11 03:03	21° \mathcal{X} 19'02		desc. node	10901 Oct 29 00:16	9° \mathcal{X} 25'22	
	10900 Nov 17 08:07	0° \mathcal{B}		evening max el	10901 Nov 06 01:38	18° \mathcal{X} 47'05	25°26'26
evening max el	10900 Nov 24 07:23	7° \mathcal{B} 45'08	26°40'22	retrograde	10901 Nov 19 22:39	25° \mathcal{X} 46'00	
retrograde	10900 Dec 08 06:00	14° \mathcal{B} 53'01		evening set	10901 Nov 25 21:32	24° \mathcal{X} 24'52	
evening set	10900 Dec 14 22:46	13° \mathcal{B} 00'56		min. Earth dist.	10901 Nov 30 13:51	21° \mathcal{X} 46'14	0.57410 AU
min. Earth dist.	10900 Dec 18 21:27	10° \mathcal{B} 24'16	0.59433 AU	inferior conj	10901 Dec 03 11:33	19° \mathcal{X} 47'46	-5°10'22
inferior conj	10900 Dec 22 01:41	7° \mathcal{B} 54'57	-4°05'30	minimum elong	10901 Dec 03 18:52	19° \mathcal{X} 35'17	5°08'23
minimum elong	10900 Dec 22 09:32	7° \mathcal{B} 39'31	4°02'32	morning rise	10901 Dec 11 18:32	15° \mathcal{X} 32'18	
morning rise	10900 Dec 29 23:02	3° \mathcal{B} 17'11		direct	10901 Dec 14 01:20	15° \mathcal{X} 16'36	
direct	10901 Jan 01 01:50	3° \mathcal{B} 00'57		asc. node	10901 Dec 22 09:23	19° \mathcal{X} 02'14	
asc. node	10901 Jan 04 12:20	3° \mathcal{B} 46'00		morning max el	10901 Dec 22 23:31	19° \mathcal{X} 35'15	18°58'38
morning max el	10901 Jan 08 20:17	6° \mathcal{B} 51'19	18°14'31		10901 Dec 30 18:51	0° \mathcal{B}	
	10901 Jan 23 13:52	0° \approx		morning set	10902 Jan 08 12:24	16° \mathcal{B} 11'51	
morning set	10901 Jan 24 13:35	1° \approx 51'51			10902 Jan 15 13:05	0° \approx	
superior conj	10901 Feb 03 00:18	19° \approx 29'05	0°31'19	superior conj	10902 Jan 16 22:16	2° \approx 39'23	0°59'50
minimum elong	10901 Feb 03 02:32	19° \approx 39'14	0°31'25	minimum elong	10902 Jan 17 01:19	2° \approx 53'57	0°59'57
desc. node	10901 Feb 07 02:32	26° \approx 46'27		max. Earth dist.	10902 Jan 23 21:31	15° \approx 32'13	1.39050 AU
	10901 Feb 08 23:10	0° \mathcal{H}		desc. node	10902 Jan 24 23:21	17° \approx 26'48	
max. Earth dist.	10901 Feb 10 14:39	2° \mathcal{H} 48'38	1.41231 AU	evening rise	10902 Jan 27 17:55	22° \approx 16'01	
evening rise	10901 Feb 15 09:13	10° \mathcal{H} 44'34			10902 Feb 01 08:54	0° \mathcal{H}	
	10901 Feb 27 19:09	0° \mathcal{Y}			10902 Feb 21 17:38	0° \mathcal{Y}	
evening max el	10901 Mar 21 08:58	28° \mathcal{Y} 06'21	23°09'04	evening max el	10902 Mar 03 22:52	11° \mathcal{Y} 55'59	24°28'58
	10901 Mar 23 09:04	0° \mathcal{B}		retrograde	10902 Mar 15 10:22	18° \mathcal{Y} 38'45	
retrograde	10901 Mar 31 18:19	4° \mathcal{B} 14'34		asc. node	10902 Mar 20 07:32	16° \mathcal{Y} 50'23	
asc. node	10901 Apr 02 10:16	4° \mathcal{B} 01'19		evening set	10902 Mar 20 22:05	16° \mathcal{Y} 21'07	
evening set	10901 Apr 05 17:58	2° \mathcal{B} 09'45		min. Earth dist.	10902 Mar 25 12:18	11° \mathcal{Y} 06'57	0.68230 AU
	10901 Apr 07 20:58	30° \mathcal{R} \mathcal{Y}		inferior conj	10902 Mar 26 10:49	9° \mathcal{Y} 51'34	1°51'02
min. Earth dist.	10901 Apr 10 16:30	26° \mathcal{Y} 20'14	0.68640 AU	minimum elong	10902 Mar 26 08:43	9° \mathcal{Y} 58'36	1°50'18
inferior conj	10901 Apr 11 03:01	25° \mathcal{Y} 43'54	2°27'19	morning rise	10902 Mar 31 19:30	3° \mathcal{Y} 52'01	
minimum elong	10901 Apr 11 00:52	25° \mathcal{Y} 51'20	2°26'33	direct	10902 Apr 04 15:45	2° \mathcal{Y} 27'31	
morning rise	10901 Apr 16 07:39	19° \mathcal{Y} 36'51		morning max el	10902 Apr 12 04:13	6° \mathcal{Y} 39'54	19°56'33
direct	10901 Apr 20 16:39	17° \mathcal{Y} 50'46		desc. node	10902 Apr 23 00:26	20° \mathcal{Y} 21'47	
morning max el	10901 Apr 29 05:18	22° \mathcal{Y} 45'27	21°08'54		10902 Apr 29 14:17	0° \mathcal{B}	
	10901 May 05 11:26	0° \mathcal{B}		morning set	10902 May 09 02:34	14° \mathcal{B} 26'35	

	10902 May 19 01:38	0°♂				10903 Apr 02 22:23	0°♂	
max. Earth dist.	10902 May 19 20:00	1°♂12'59	1.44355 AU	greatest brilliancy		10903 Apr 08 23:42	8°♂55'27	-0.8m
				desc. node		10903 Apr 09 21:11	10°♂17'03	
superior conj	10902 May 25 03:30	9°♂45'37	-2°11'26	morning set		10903 Apr 18 07:50	23°♂18'23	
minimum elong	10902 May 25 06:20	9°♂57'06	2°11'55			10903 Apr 22 15:16	0°♂	
	10902 Jun 06 06:45	0°♂		max. Earth dist.		10903 May 02 12:41	15°♂26'07	1.45376 AU
evening rise	10902 Jun 07 10:02	1°♂56'23						
asc. node	10902 Jun 16 05:42	16°♂49'23		superior conj		10903 May 04 19:11	19°♂00'15	-2°09'41
evening max el	10902 Jun 25 04:18	29°♂07'34	18°07'36	minimum elong		10903 May 04 14:43	18°♂42'41	2°09'57
	10902 Jun 26 02:52	0°♂				10903 May 11 17:31	0°♂	
retrograde	10902 Jul 01 13:24	2°♂27'51		evening rise		10903 May 19 17:30	12°♂54'45	
evening set	10902 Jul 04 08:24	1°♂47'40				10903 May 30 07:44	0°♂	
	10902 Jul 07 00:55	30°♂		asc. node		10903 Jun 03 02:48	5°♂41'55	
inferior conj	10902 Jul 10 12:59	26°♂32'48	2°28'31	evening max el		10903 Jun 08 17:22	12°♂40'07	18°27'53
minimum elong	10902 Jul 10 15:37	26°♂25'42	2°27'19	retrograde		10903 Jun 15 04:10	16°♂08'58	
min. Earth dist.	10902 Jul 13 07:32	23°♂34'57	0.62829 AU	evening set		10903 Jun 18 07:06	15°♂14'26	
morning rise	10902 Jul 16 21:00	20°♂22'06		inferior conj		10903 Jun 24 01:19	9°♂42'45	3°00'27
desc. node	10902 Jul 20 00:03	18°♂34'32		minimum elong		10903 Jun 24 03:07	9°♂37'23	2°59'36
direct	10902 Jul 23 14:01	17°♂52'32		min. Earth dist.		10903 Jun 26 05:41	7°♂07'24	0.64832 AU
morning max el	10902 Aug 06 14:51	25°♂54'51	27°52'39	morning rise		10903 Jun 29 22:05	3°♂23'31	
	10902 Aug 10 09:32	0°♂		direct		10903 Jul 06 11:55	0°♂41'53	
	10902 Aug 30 21:05	0°♂		desc. node		10903 Jul 06 21:12	0°♂42'24	
morning set	10902 Sep 09 22:34	18°♂56'25		morning max el		10903 Jul 20 01:20	8°♂39'32	27°17'28
asc. node	10902 Sep 12 05:58	23°♂40'36				10903 Aug 05 15:56	0°♂	
max. Earth dist.	10902 Sep 15 04:15	29°♂52'10	1.32191 AU			10903 Aug 23 05:42	0°♂	
	10902 Sep 15 05:43	0°♂		morning set		10903 Aug 24 11:31	2°♂24'06	
				max. Earth dist.		10903 Aug 29 00:16	11°♂28'30	1.33329 AU
superior conj	10902 Sep 17 14:40	5°♂08'13	0°50'55	asc. node		10903 Aug 30 02:46	13°♂45'21	
minimum elong	10902 Sep 17 12:37	4°♂57'02	0°50'32					
evening rise	10902 Sep 24 10:52	20°♂03'54		superior conj		10903 Sep 01 18:26	19°♂19'54	0°25'52
	10902 Sep 29 05:38	0°♂		minimum elong		10903 Sep 01 17:10	19°♂13'14	0°25'26
desc. node	10902 Oct 15 21:33	26°♂20'16				10903 Sep 06 17:54	0°♂	
evening max el	10902 Oct 18 13:03	29°♂06'06	23°50'51	evening rise		10903 Sep 08 21:54	4°♂37'30	
	10902 Oct 19 12:08	0°♂				10903 Sep 22 14:14	0°♂	
retrograde	10902 Nov 01 02:45	5°♂52'52		evening max el		10903 Sep 30 00:57	9°♂12'38	22°10'27
evening set	10902 Nov 05 19:51	5°♂04'24		desc. node		10903 Oct 02 18:51	11°♂37'44	
min. Earth dist.	10902 Nov 11 23:27	2°♂05'05	0.55754 AU	retrograde		10903 Oct 12 19:33	15°♂34'09	
inferior conj	10902 Nov 14 00:56	0°♂50'52	-5°45'42	evening set		10903 Oct 16 01:10	15°♂10'55	
minimum elong	10902 Nov 14 02:51	0°♂47'59	5°45'07	inferior conj		10903 Oct 24 21:59	11°♂11'36	-5°30'34
	10902 Nov 15 11:07	30°♂		minimum elong		10903 Oct 24 15:39	11°♂20'31	5°29'23
morning rise	10902 Nov 22 11:46	26°♂55'21		min. Earth dist.		10903 Oct 24 06:34	11°♂33'17	0.54765 AU
direct	10902 Nov 25 05:23	26°♂36'32		morning rise		10903 Nov 02 07:38	7°♂24'36	
	10902 Dec 03 20:21	0°♂		direct		10903 Nov 05 17:22	6°♂58'49	
morning max el	10902 Dec 05 14:34	1°♂32'00	20°05'31	morning max el		10903 Nov 17 15:59	12°♂37'42	21°34'22
asc. node	10902 Dec 09 06:25	5°♂35'59		asc. node		10903 Nov 26 03:23	23°♂11'13	
	10902 Dec 23 08:23	0°♂				10903 Nov 30 05:25	0°♂	
morning set	10902 Dec 23 17:52	0°♂48'14		morning set		10903 Dec 08 03:22	15°♂33'29	
						10903 Dec 14 23:41	0°♂	
superior conj	10902 Dec 31 10:15	16°♂28'27	1°20'19					
minimum elong	10902 Dec 31 12:55	16°♂41'46	1°20'36	superior conj		10903 Dec 15 08:16	0°♂44'52	1°33'10
max. Earth dist.	10903 Jan 06 04:20	27°♂41'25	1.36869 AU	minimum elong		10903 Dec 15 09:56	0°♂53'32	1°33'39
	10903 Jan 07 09:53	0°♂		max. Earth dist.		10903 Dec 19 15:42	9°♂34'18	1.34915 AU
evening rise	10903 Jan 09 22:43	4°♂38'59		evening rise		10903 Dec 23 20:15	17°♂45'04	
desc. node	10903 Jan 11 20:14	8°♂02'16		desc. node		10903 Dec 29 17:09	28°♂28'32	
	10903 Jan 25 07:55	0°♂				10903 Dec 30 14:09	0°♂	
evening max el	10903 Feb 14 12:14	25°♂45'57	25°42'19			10904 Jan 19 14:33	0°♂	
	10903 Feb 19 11:33	0°♂		evening max el		10904 Jan 28 01:39	9°♂30'06	26°41'50
retrograde	10903 Feb 26 21:54	2°♂53'26		retrograde		10904 Feb 10 04:09	16°♂51'04	
evening set	10903 Mar 04 21:40	0°♂25'45		evening set		10904 Feb 16 14:53	14°♂17'47	
	10903 Mar 05 09:31	30°♂		min. Earth dist.		10904 Feb 20 16:13	10°♂12'58	0.66183 AU
asc. node	10903 Mar 07 04:50	28°♂10'18		asc. node		10904 Feb 22 02:07	8°♂33'03	
min. Earth dist.	10903 Mar 09 04:55	25°♂46'42	0.67401 AU	inferior conj		10904 Feb 22 14:38	7°♂55'52	0°10'13
inferior conj	10903 Mar 10 15:24	23°♂57'12	1°05'20	minimum elong		10904 Feb 22 14:21	7°♂56'43	0°10'23
minimum elong	10903 Mar 10 13:54	24°♂02'01	1°04'53	transit middle		10904 Feb 22 14:21	7°♂56'43	0°10'23
morning rise	10903 Mar 16 06:39	18°♂06'43		transit begin		10904 Feb 22 12:07	8°♂03'20	
direct	10903 Mar 19 15:10	17°♂02'17		transit end		10904 Feb 22 16:34	7°♂50'07	
morning max el	10903 Mar 26 10:58	20°♂45'06	18°59'07	morning rise		10904 Feb 28 14:54	2°♂16'19	

direct	10904 Mar 02 13:01	1° H 29'00		inferior conj	10905 Feb 05 06:06	21° \approx 42'35	-0°53'56
morning max el	10904 Mar 08 23:59	4° H 55'00	18°17'56	minimum elong	10905 Feb 05 07:45	21° \approx 38'09	0°52'50
	10904 Mar 26 10:14	0° Y		asc. node	10905 Feb 07 23:20	18° \approx 55'39	
desc. node	10904 Mar 26 17:53	0° Y 30'36		morning rise	10905 Feb 11 17:39	16° \approx 16'18	
morning set	10904 Mar 28 13:14	3° Y 23'59		direct	10905 Feb 14 07:05	15° \approx 42'25	
				morning max el	10905 Feb 20 16:46	19° \approx 02'43	17°53'41
superior conj	10904 Apr 13 01:30	27° Y 56'45	-1°47'43		10905 Feb 28 21:47	0° H	
minimum elong	10904 Apr 12 16:09	27° Y 20'11	1°47'08	morning set	10905 Mar 09 23:46	14° H 55'50	
	10904 Apr 14 09:01	0° B		desc. node	10905 Mar 13 14:36	20° H 57'31	
max. Earth dist.	10904 Apr 14 07:55	29° Y 55'40	1.45674 AU		10905 Mar 19 02:38	0° Y	
evening rise	10904 Apr 29 01:12	22° B 55'24		superior conj	10905 Mar 23 16:54	7° Y 24'36	-1°10'43
	10904 May 03 13:45	0° II		minimum elong	10905 Mar 23 09:17	6° Y 54'07	1°09'47
greatest brilliancy	10904 May 09 19:52	9° II 41'47	-0.8m	max. Earth dist.	10905 Mar 28 03:16	14° Y 26'30	1.45236 AU
asc. node	10904 May 19 23:56	23° II 59'16			10905 Apr 07 03:22	0° B	
evening max el	10904 May 22 03:06	26° II 19'42	19°05'39	evening rise	10905 Apr 08 16:02	2° B 20'51	
	10904 May 27 16:29	0° E		greatest brilliancy	10905 Apr 23 13:06	24° B 45'37	-0.6m
retrograde	10904 May 29 00:09	0° E 09'42			10905 Apr 27 05:15	0° II	
	10904 May 30 07:15	30° K II		evening max el	10905 May 05 07:50	10° II 02'34	19°59'23
evening set	10904 Jun 01 11:22	28° II 59'50		asc. node	10905 May 06 21:06	11° II 30'21	
inferior conj	10904 Jun 06 22:48	23° II 13'02	3°15'13	retrograde	10905 May 12 22:28	14° II 24'29	
minimum elong	10904 Jun 06 23:27	23° II 10'56	3°14'36	evening set	10905 May 16 18:45	12° II 58'44	
min. Earth dist.	10904 Jun 08 12:13	21° II 13'03	0.66467 AU	inferior conj	10905 May 22 02:29	6° II 58'20	3°16'02
morning rise	10904 Jun 12 10:59	16° II 51'32		minimum elong	10905 May 22 02:01	6° II 59'54	3°15'29
direct	10904 Jun 18 16:59	14° II 08'37		min. Earth dist.	10905 May 23 01:23	5° II 40'58	0.67668 AU
desc. node	10904 Jun 22 18:17	15° II 05'36		morning rise	10905 May 27 08:58	0° II 38'33	
morning max el	10904 Jul 01 12:09	21° II 47'12	26°14'36		10905 May 28 03:12	30° K B	
	10904 Jul 08 15:57	0° E		direct	10905 Jun 02 03:56	28° B 04'08	
morning set	10904 Jul 28 21:28	0° O			10905 Jun 07 19:48	0° II	
	10904 Aug 06 12:02	15° O 14'52		desc. node	10905 Jun 09 15:18	1° II 16'16	
max. Earth dist.	10904 Aug 10 09:38	22° O 40'38	1.34958 AU	morning max el	10905 Jun 13 21:55	5° II 07'15	24°53'30
	10904 Aug 14 02:10	0° P			10905 Jul 03 01:50	0° E	
superior conj	10904 Aug 15 15:03	3° P 07'35	-0°03'29	morning set	10905 Jul 19 19:46	27° E 17'20	
minimum elong	10904 Aug 15 15:16	3° P 08'41	0°03'46		10905 Jul 21 08:12	0° O	
behind sun begin	10904 Aug 15 09:26	2° P 38'50		max. Earth dist.	10905 Jul 23 09:46	3° O 45'18	1.37006 AU
behind sun end	10904 Aug 15 21:06	3° P 38'34		superior conj	10905 Jul 30 01:28	16° O 23'34	-0°35'56
asc. node	10904 Aug 15 23:35	3° P 51'18		minimum elong	10905 Jul 30 03:47	16° O 34'58	0°35'56
evening rise	10904 Aug 23 06:34	19° P 01'26		asc. node	10905 Aug 02 20:24	23° O 54'34	
	10904 Aug 28 17:44	0° A			10905 Aug 05 20:57	0° P	
evening max el	10904 Sep 10 22:43	19° A 44'08	20°40'54	evening rise	10905 Aug 07 10:32	3° P 09'23	
desc. node	10904 Sep 18 16:09	24° A 48'16			10905 Aug 23 11:09	0° A	
retrograde	10904 Sep 22 07:14	25° A 22'09		evening max el	10905 Aug 24 10:17	1° A 00'18	19°30'27
evening set	10904 Sep 24 11:22	25° A 10'40		retrograde	10905 Sep 03 01:51	5° A 47'57	
inferior conj	10904 Oct 03 14:12	21° A 14'58	-4°18'38	evening set	10905 Sep 04 22:08	5° A 38'13	
minimum elong	10904 Oct 03 04:16	21° A 29'14	4°15'38	desc. node	10905 Sep 05 13:28	5° A 30'28	
min. Earth dist.	10904 Oct 04 14:44	20° A 39'42	0.54673 AU	inferior conj	10905 Sep 13 15:58	1° A 32'46	-2°30'28
morning rise	10904 Oct 11 20:58	17° A 16'29		minimum elong	10905 Sep 13 09:16	1° A 43'27	2°27'59
direct	10904 Oct 16 01:36	16° A 38'42		min. Earth dist.	10905 Sep 16 01:46	0° A 00'42	0.55531 AU
morning max el	10904 Oct 29 06:37	23° A 01'39	23°18'45		10905 Sep 16 02:12	30° R P	
	10904 Nov 04 10:51	0° M		morning rise	10905 Sep 21 18:06	27° P 04'44	
asc. node	10904 Nov 12 00:17	11° M 33'46		direct	10905 Sep 26 18:37	26° P 08'09	
	10904 Nov 21 10:45	0° X			10905 Oct 07 00:10	0° A	
morning set	10904 Nov 21 14:53	0° X 21'56		morning max el	10905 Oct 10 17:38	3° A 08'05	25°05'01
superior conj	10904 Nov 28 13:08	15° X 19'26	1°39'04	asc. node	10905 Oct 29 21:08	0° M 31'15	
minimum elong	10904 Nov 28 13:37	15° X 22'00	1°39'37		10905 Oct 29 14:28	0° M	
max. Earth dist.	10904 Dec 01 10:47	21° X 30'36	1.33341 AU	morning set	10905 Nov 06 02:35	15° M 07'29	
	10904 Dec 05 13:48	0° B		superior conj	10905 Nov 12 22:16	0° X 03'20	1°38'36
evening rise	10904 Dec 06 06:54	1° B 25'21		minimum elong	10905 Nov 12 21:38	29° M 59'46	1°39'05
desc. node	10904 Dec 15 14:08	18° B 40'38			10905 Nov 12 21:40	0° X	
	10904 Dec 22 12:50	0° \approx		max. Earth dist.	10905 Nov 14 13:30	3° X 38'21	1.32223 AU
evening max el	10905 Jan 09 14:43	22° \approx 59'56	27°20'17	evening rise	10905 Nov 20 03:18	15° X 29'53	
	10905 Jan 20 08:02	0° H			10905 Nov 27 14:18	0° B	
retrograde	10905 Jan 23 04:14	0° H 23'47		desc. node	10905 Dec 02 11:11	8° B 31'08	
	10905 Jan 25 21:38	30° R \approx			10905 Dec 17 10:22	0° \approx	
evening set	10905 Jan 29 23:36	27° \approx 51'17		evening max el	10905 Dec 23 01:45	6° \approx 02'16	27°30'56
min. Earth dist.	10905 Feb 02 20:09	24° \approx 18'47	0.64612 AU				

retrograde	10906 Jan 05 21:07	13° \approx 21'25		evening set	10906 Dec 26 03:50	23° \approx 28'41	
evening set	10906 Jan 12 21:03	10° \approx 57'32		min. Earth dist.	10906 Dec 29 22:30	20° \approx 45'48	0.60669 AU
min. Earth dist.	10906 Jan 16 14:41	7° \approx 53'35	0.62742 AU	inferior conj	10907 Jan 02 01:41	18° \approx 06'30	-3°22'18
inferior conj	10906 Jan 19 10:54	5° \approx 09'07	-2°05'56	minimum elong	10907 Jan 02 08:29	17° \approx 52'02	3°19'20
minimum elong	10906 Jan 19 15:05	4° \approx 59'00	2°03'44	morning rise	10907 Jan 09 15:48	13° \approx 16'11	
asc. node	10906 Jan 25 20:30	0° \approx 13'46		direct	10907 Jan 11 19:06	12° \approx 57'54	
morning rise	10906 Jan 26 11:27	29° \approx 59'05		asc. node	10907 Jan 12 17:39	13° \approx 01'33	
	10906 Jan 26 10:24	30° \approx 34'47		morning max el	10907 Jan 19 01:11	16° \approx 35'43	17°58'46
direct	10906 Jan 28 18:23	29° \approx 34'47			10907 Jan 28 11:13	0° \approx	
	10906 Jan 31 01:41	0° \approx		morning set	10907 Feb 03 15:42	11° \approx 10'04	
morning max el	10906 Feb 04 10:16	2° \approx 59'14	17°46'57				
morning set	10906 Feb 20 10:44	27° \approx 37'52		superior conj	10907 Feb 13 20:32	29° \approx 38'13	0°11'21
	10906 Feb 21 19:10	0° \approx		minimum elong	10907 Feb 13 21:30	29° \approx 42'28	0°11'34
desc. node	10906 Feb 28 11:18	11° \approx 32'53		behind sun begin	10907 Feb 13 15:55	29° \approx 17'55	
				behind sun end	10907 Feb 14 03:05	0° \approx 06'58	
superior conj	10906 Mar 04 06:16	17° \approx 56'11	-0°28'23		10907 Feb 14 01:30	0° \approx	
minimum elong	10906 Mar 04 03:25	17° \approx 44'16	0°27'46	desc. node	10907 Feb 15 08:02	2° \approx 13'06	
max. Earth dist.	10906 Mar 10 20:46	28° \approx 44'12	1.44106 AU	max. Earth dist.	10907 Feb 21 10:19	12° \approx 33'12	1.42401 AU
	10906 Mar 11 15:41	0° \approx		evening rise	10907 Feb 27 04:31	21° \approx 53'38	
evening rise	10906 Mar 19 04:17	11° \approx 48'53			10907 Mar 04 09:04	0° \approx	
	10906 Mar 31 06:15	0° \approx			10907 Mar 25 11:39	0° \approx	
evening max el	10906 Apr 18 06:57	23° \approx 46'42	21°06'29	evening max el	10907 Apr 01 00:59	7° \approx 31'52	22°22'53
asc. node	10906 Apr 23 18:17	28° \approx 01'20		retrograde	10907 Apr 10 18:09	13° \approx 16'27	
retrograde	10906 Apr 26 21:01	28° \approx 48'20		asc. node	10907 Apr 10 15:31	13° \approx 16'23	
evening set	10906 May 01 03:17	27° \approx 06'42		evening set	10907 Apr 15 11:19	11° \approx 19'31	
inferior conj	10906 May 06 09:53	20° \approx 54'22	3°05'10	inferior conj	10907 Apr 20 18:56	4° \approx 57'37	2°43'56
minimum elong	10906 May 06 08:31	20° \approx 59'08	3°04'32	minimum elong	10907 Apr 20 16:58	5° \approx 04'29	2°43'12
min. Earth dist.	10906 May 06 19:08	20° \approx 22'15	0.68405 AU	min. Earth dist.	10907 Apr 20 15:23	5° \approx 09'59	0.68684 AU
morning rise	10906 May 11 13:32	14° \approx 38'36			10907 Apr 24 16:07	30° \approx 09'00	
direct	10906 May 16 19:39	12° \approx 20'05		morning rise	10907 Apr 25 22:29	28° \approx 47'12	
morning max el	10906 May 27 07:39	18° \approx 35'11	23°24'16	direct	10907 Apr 30 15:04	26° \approx 48'55	
desc. node	10906 May 27 12:14	18° \approx 46'48			10907 May 07 11:01	0° \approx	
	10906 Jun 05 21:37	0° \approx		morning max el	10907 May 09 20:15	2° \approx 11'50	21°56'07
	10906 Jun 26 04:30	0° \approx		desc. node	10907 May 14 09:06	7° \approx 15'20	
morning set	10906 Jul 01 05:37	8° \approx 18'32			10907 May 30 19:57	0° \approx	
max. Earth dist.	10906 Jul 05 06:48	15° \approx 14'18	1.39286 AU	morning set	10907 Jun 11 13:28	18° \approx 10'33	
				max. Earth dist.	10907 Jun 17 07:06	27° \approx 13'04	1.41532 AU
superior conj	10906 Jul 12 21:54	28° \approx 58'38	-1°09'26		10907 Jun 18 18:45	0° \approx	
minimum elong	10906 Jul 13 02:38	29° \approx 20'40	1°09'14				
	10906 Jul 13 11:05	0° \approx		superior conj	10907 Jun 24 23:50	10° \approx 41'37	-1°40'33
asc. node	10906 Jul 20 17:15	13° \approx 51'24		minimum elong	10907 Jun 25 06:17	11° \approx 09'59	1°40'26
evening rise	10906 Jul 22 06:58	16° \approx 53'57		evening rise	10907 Jul 05 16:12	0° \approx 05'03	
	10906 Jul 29 06:48	0° \approx			10907 Jul 05 15:06	0° \approx	
evening max el	10906 Aug 07 10:08	13° \approx 02'03	18°41'19	asc. node	10907 Jul 07 14:09	3° \approx 37'05	
retrograde	10906 Aug 15 13:54	17° \approx 06'58		evening max el	10907 Jul 21 18:22	25° \approx 40'35	18°12'56
evening set	10906 Aug 17 13:17	16° \approx 53'27		retrograde	10907 Jul 28 21:01	29° \approx 16'36	
desc. node	10906 Aug 23 10:47	14° \approx 00'22		evening set	10907 Jul 31 03:25	28° \approx 55'16	
inferior conj	10906 Aug 25 13:13	12° \approx 29'14	-0°39'09	inferior conj	10907 Aug 07 08:13	24° \approx 10'27	0°53'26
minimum elong	10906 Aug 25 11:38	12° \approx 32'12	0°38'46	minimum elong	10907 Aug 07 09:55	24° \approx 06'45	0°52'25
min. Earth dist.	10906 Aug 28 17:31	10° \approx 08'04	0.57166 AU	desc. node	10907 Aug 10 08:04	21° \approx 34'19	
morning rise	10906 Sep 02 06:35	7° \approx 23'42		min. Earth dist.	10907 Aug 10 16:21	21° \approx 17'04	0.59279 AU
direct	10906 Sep 08 01:19	6° \approx 01'33		morning rise	10907 Aug 14 13:08	18° \approx 31'19	
morning max el	10906 Sep 22 08:27	13° \approx 29'44	26°35'30	direct	10907 Aug 20 21:39	16° \approx 39'50	
	10906 Oct 05 10:04	0° \approx		morning max el	10907 Sep 04 06:25	24° \approx 28'46	27°35'25
asc. node	10906 Oct 16 17:57	19° \approx 54'44			10907 Sep 09 07:24	0° \approx	
morning set	10906 Oct 21 12:50	29° \approx 45'53			10907 Sep 28 16:59	0° \approx	
	10906 Oct 21 15:29	0° \approx		asc. node	10907 Oct 03 14:45	9° \approx 36'32	
				morning set	10907 Oct 05 19:54	14° \approx 11'57	
superior conj	10906 Oct 28 09:37	14° \approx 50'29	1°32'16				
minimum elong	10906 Oct 28 08:04	14° \approx 41'52	1°32'33	superior conj	10907 Oct 12 21:16	29° \approx 34'59	1°20'23
max. Earth dist.	10906 Oct 28 21:23	15° \approx 55'55	1.31584 AU	minimum elong	10907 Oct 12 19:10	29° \approx 23'14	1°20'22
evening rise	10906 Nov 04 06:42	29° \approx 51'35		max. Earth dist.	10907 Oct 12 06:44	28° \approx 14'08	1.31424 AU
	10906 Nov 04 08:17	0° \approx			10907 Oct 13 01:46	0° \approx	
desc. node	10906 Nov 19 08:19	27° \approx 51'16		evening rise	10907 Oct 19 14:45	14° \approx 23'40	
	10906 Nov 20 17:14	0° \approx			10907 Oct 27 08:29	0° \approx	
evening max el	10906 Dec 05 07:59	18° \approx 23'36	27°08'38	desc. node	10907 Nov 06 05:31	16° \approx 29'04	
retrograde	10906 Dec 19 05:37	25° \approx 35'10			10907 Nov 17 09:15	0° \approx	

evening max el	10907 Nov 17 06:45	29° ♁ 54'05	26°12'18	desc. node	10908 Oct 23 02:46	4° ♁ 07'42	
retrograde	10907 Dec 01 04:48	6° ♁ 58'29		evening max el	10908 Oct 28 21:24	10° ♁ 34'38	24°47'33
evening set	10907 Dec 07 15:42	5° ♁ 18'29		retrograde	10908 Nov 11 16:47	17° ♁ 30'14	
min. Earth dist.	10907 Dec 11 19:49	2° ♁ 43'28	0.58549 AU	evening set	10908 Nov 17 04:09	16° ♁ 23'13	
inferior conj	10907 Dec 14 22:56	0° ♁ 25'07	-4°35'17	min. Earth dist.	10908 Nov 22 08:59	13° ♁ 37'58	0.56633 AU
minimum elong	10907 Dec 15 07:03	0° ♁ 10'08	4°32'33	inferior conj	10908 Nov 24 23:59	11° ♁ 56'42	-5°30'21
	10907 Dec 15 12:34	30° ♁		minimum elong	10908 Nov 25 05:40	11° ♁ 47'33	5°29'02
morning rise	10907 Dec 23 01:01	25° ♁ 57'12		morning rise	10908 Dec 03 09:25	7° ♁ 50'36	
direct	10907 Dec 25 04:50	25° ♁ 41'36		direct	10908 Dec 05 19:42	7° ♁ 34'12	
asc. node	10907 Dec 30 14:45	27° ♁ 26'10		morning max el	10908 Dec 15 08:25	12° ♁ 07'48	19°24'19
morning max el	10908 Jan 02 09:53	29° ♁ 42'25	18°30'38	asc. node	10908 Dec 16 11:50	13° ♁ 17'18	
	10908 Jan 02 16:59	0° ♁			10908 Dec 27 11:28	0° ♁	
morning set	10908 Jan 18 09:15	25° ♁ 16'21		morning set	10909 Jan 01 11:15	9° ♁ 44'10	
	10908 Jan 20 20:06	0° ♁					
superior conj	10908 Jan 27 08:25	12° ♁ 20'59	0°44'24	superior conj	10909 Jan 09 12:55	25° ♁ 49'28	1°09'28
minimum elong	10908 Jan 27 11:11	12° ♁ 33'50	0°44'27	minimum elong	10909 Jan 09 15:54	26° ♁ 04'04	1°09'39
desc. node	10908 Feb 02 04:50	22° ♁ 54'45			10909 Jan 11 16:46	0° ♁	
max. Earth dist.	10908 Feb 03 18:55	25° ♁ 40'43	1.40316 AU	max. Earth dist.	10909 Jan 16 00:46	8° ♁ 06'14	1.38102 AU
	10908 Feb 06 07:35	0° ♁		desc. node	10909 Jan 19 01:39	13° ♁ 33'33	
evening rise	10908 Feb 08 00:50	2° ♁ 52'50		evening rise	10909 Jan 19 18:26	14° ♁ 47'19	
	10908 Feb 25 15:38	0° ♁			10909 Jan 28 21:34	0° ♁	
evening max el	10908 Mar 13 15:43	21° ♁ 19'46	23°43'18	evening max el	10909 Feb 19 10:17	0° ♁	
retrograde	10908 Mar 24 12:35	27° ♁ 44'17			10909 Feb 24 05:10	5° ♁ 09'48	25°01'22
asc. node	10908 Mar 27 12:47	27° ♁ 01'39		retrograde	10909 Mar 08 03:01	12° ♁ 05'09	
evening set	10908 Mar 29 17:21	25° ♁ 33'30		evening set	10909 Mar 13 19:46	9° ♁ 42'54	
min. Earth dist.	10908 Apr 03 12:02	19° ♁ 59'07	0.68517 AU	asc. node	10909 Mar 14 10:05	9° ♁ 10'58	
inferior conj	10908 Apr 04 03:46	19° ♁ 05'20	2°13'04	min. Earth dist.	10909 Mar 18 06:52	4° ♁ 43'30	0.67925 AU
minimum elong	10908 Apr 04 01:35	19° ♁ 12'48	2°12'18	inferior conj	10909 Mar 19 10:28	3° ♁ 12'51	1°32'48
morning rise	10908 Apr 09 09:50	13° ♁ 01'24		minimum elong	10909 Mar 19 08:33	3° ♁ 19'10	1°32'10
direct	10908 Apr 13 13:12	11° ♁ 24'49			10909 Mar 22 00:01	30° ♁	
morning max el	10908 Apr 21 14:55	16° ♁ 00'21	20°36'28	morning rise	10909 Mar 24 21:37	27° ♁ 16'45	
desc. node	10908 Apr 30 05:55	26° ♁ 26'25		direct	10909 Mar 28 12:39	26° ♁ 01'09	
	10908 May 02 19:44	0° ♁		morning max el	10909 Apr 04 17:13	29° ♁ 59'48	19°30'06
morning set	10908 May 20 21:31	26° ♁ 56'41			10909 Apr 04 17:18	0° ♁	
	10908 May 22 20:35	0° ♁		desc. node	10909 Apr 17 02:40	16° ♁ 07'50	
max. Earth dist.	10908 May 29 13:48	10° ♁ 39'41	1.43470 AU	greatest brilliancy	10909 Apr 17 09:58	16° ♁ 34'42	-0.7m
					10909 Apr 26 07:40	0° ♁	
superior conj	10908 Jun 05 03:08	21° ♁ 24'42	-2°04'00	morning set	10909 Apr 29 20:52	5° ♁ 26'50	
minimum elong	10908 Jun 05 08:35	21° ♁ 47'27	2°04'17	max. Earth dist.	10909 May 12 02:57	24° ♁ 32'04	1.44876 AU
	10908 Jun 10 04:57	0° ♁			10909 May 15 13:36	0° ♁	
evening rise	10908 Jun 17 09:46	12° ♁ 32'21		superior conj	10909 May 16 06:26	1° ♁ 07'16	-2°13'10
asc. node	10908 Jun 23 11:08	23° ♁ 07'05		minimum elong	10909 May 16 06:23	1° ♁ 07'05	2°13'40
	10908 Jun 27 15:14	0° ♁		evening rise	10909 May 30 06:43	24° ♁ 04'31	
evening max el	10908 Jul 04 07:10	8° ♁ 46'56	18°04'07		10909 Jun 02 19:41	0° ♁	
retrograde	10908 Jul 10 19:46	12° ♁ 08'52		asc. node	10909 Jun 10 08:11	12° ♁ 15'18	
evening set	10908 Jul 13 10:06	11° ♁ 36'23		evening max el	10909 Jun 17 21:02	22° ♁ 12'21	18°14'04
inferior conj	10908 Jul 19 22:27	6° ♁ 32'11	2°00'41	retrograde	10909 Jun 24 05:46	25° ♁ 34'29	
minimum elong	10908 Jul 20 01:11	6° ♁ 25'19	1°59'23	evening set	10909 Jun 27 04:07	24° ♁ 48'27	
min. Earth dist.	10908 Jul 22 23:56	3° ♁ 29'12	0.61558 AU	inferior conj	10909 Jul 03 03:51	19° ♁ 26'32	2°44'23
morning rise	10908 Jul 26 13:49	0° ♁ 29'50		minimum elong	10909 Jul 03 06:12	19° ♁ 19'54	2°43'19
desc. node	10908 Jul 27 05:19	0° ♁ 04'22		min. Earth dist.	10909 Jul 05 16:44	16° ♁ 35'59	0.63723 AU
	10908 Jul 27 08:08	30° ♁		morning rise	10909 Jul 09 06:47	13° ♁ 11'19	
direct	10908 Aug 02 05:45	28° ♁ 11'36		desc. node	10909 Jul 14 02:29	10° ♁ 46'39	
	10908 Aug 08 13:26	0° ♁		direct	10909 Jul 15 23:18	10° ♁ 34'55	
morning max el	10908 Aug 16 11:01	6° ♁ 12'38	27°57'19	morning max el	10909 Jul 29 19:54	18° ♁ 37'12	27°41'31
	10908 Sep 03 10:14	0° ♁			10909 Aug 08 10:11	0° ♁	
morning set	10908 Sep 18 21:51	28° ♁ 20'15			10909 Aug 27 08:27	0° ♁	
asc. node	10908 Sep 19 11:32	29° ♁ 30'53		morning set	10909 Sep 02 16:22	12° ♁ 04'50	
	10908 Sep 19 17:09	0° ♁		asc. node	10909 Sep 06 08:20	19° ♁ 33'09	
max. Earth dist.	10908 Sep 24 13:43	10° ♁ 22'19	1.31758 AU	max. Earth dist.	10909 Sep 07 14:30	22° ♁ 11'12	1.32604 AU
superior conj	10908 Sep 26 07:26	14° ♁ 11'12	1°03'10	superior conj	10909 Sep 10 14:11	28° ♁ 33'53	0°40'52
minimum elong	10908 Sep 26 05:12	13° ♁ 58'56	1°02'53	minimum elong	10909 Sep 10 12:23	28° ♁ 24'12	0°40'27
evening rise	10908 Oct 03 01:26	29° ♁ 00'26			10909 Sep 11 06:07	0° ♁	
	10908 Oct 03 12:32	0° ♁		evening rise	10909 Sep 17 12:53	13° ♁ 36'52	
	10908 Oct 20 01:24	0° ♁			10909 Sep 25 16:57	0° ♁	

desc. node	10909 Oct 10 00:04	20° \mathbb{M} 24'59		evening rise	10910 Sep 01 23:08	28° \mathbb{M} 06'53	
evening max el	10909 Oct 10 08:04	20° \mathbb{M} 44'39	23°07'52		10910 Sep 02 20:45	0° \mathbb{A}	
retrograde	10909 Oct 23 15:44	27° \mathbb{M} 22'34			10910 Sep 21 00:45	0° \mathbb{M}	
evening set	10909 Oct 27 17:22	26° \mathbb{M} 46'35		evening max el	10910 Sep 21 23:16	0° \mathbb{M} 57'33	21°30'22
min. Earth dist.	10909 Nov 03 17:26	23° \mathbb{M} 32'51	0.55228 AU	desc. node	10910 Sep 26 21:22	4° \mathbb{M} 51'49	
inferior conj	10909 Nov 05 05:35	22° \mathbb{M} 40'33	-5°46'27	retrograde	10910 Oct 04 04:29	7° \mathbb{M} 01'48	
minimum elong	10909 Nov 05 03:57	22° \mathbb{M} 42'55	5°45'58	evening set	10910 Oct 06 21:31	6° \mathbb{M} 45'02	
morning rise	10909 Nov 13 16:15	18° \mathbb{M} 50'13		inferior conj	10910 Oct 15 22:43	2° \mathbb{M} 49'07	-5°06'22
direct	10909 Nov 16 16:10	18° \mathbb{M} 28'55		minimum elong	10910 Oct 15 13:54	3° \mathbb{M} 01'27	5°04'19
morning max el	10909 Nov 27 17:39	23° \mathbb{M} 42'59	20°40'47	min. Earth dist.	10910 Oct 16 00:21	2° \mathbb{M} 46'49	0.54611 AU
asc. node	10909 Dec 03 08:50	0° \mathbb{A} 19'17			10910 Oct 21 10:20	30° \mathbb{R} \mathbb{A}	
	10909 Dec 03 03:15	0° \mathbb{A}		morning rise	10910 Oct 24 07:15	29° \mathbb{A} 00'06	
morning set	10909 Dec 16 18:45	24° \mathbb{A} 25'19		direct	10910 Oct 28 01:11	28° \mathbb{A} 29'44	
	10909 Dec 19 11:14	0° \mathbb{B}			10910 Nov 03 07:33	0° \mathbb{M}	
				morning max el	10910 Nov 09 13:35	4° \mathbb{M} 27'20	22°17'32
superior conj	10909 Dec 24 05:36	9° \mathbb{B} 51'28	1°26'38	asc. node	10910 Nov 20 05:46	18° \mathbb{M} 15'40	
minimum elong	10909 Dec 24 07:53	10° \mathbb{B} 03'07	1°27'01		10910 Nov 26 17:26	0° \mathbb{A}	
max. Earth dist.	10909 Dec 29 08:57	20° \mathbb{B} 05'56	1.36002 AU	morning set	10910 Dec 01 05:19	9° \mathbb{A} 12'08	
evening rise	10910 Jan 02 06:52	27° \mathbb{B} 30'21					
	10910 Jan 03 15:34	0° \mathbb{A}		superior conj	10910 Dec 08 06:50	24° \mathbb{A} 15'49	1°36'28
desc. node	10910 Jan 05 22:34	4° \mathbb{A} 05'54		minimum elong	10910 Dec 08 08:00	24° \mathbb{A} 21'59	1°37'00
	10910 Jan 22 06:16	0° \mathbb{H}			10910 Dec 11 00:32	0° \mathbb{B}	
evening max el	10910 Feb 06 18:43	18° \mathbb{H} 58'55	26°09'45	max. Earth dist.	10910 Dec 11 23:40	1° \mathbb{B} 59'04	1.34196 AU
retrograde	10910 Feb 19 12:21	26° \mathbb{H} 13'08		evening rise	10910 Dec 16 10:23	10° \mathbb{B} 51'26	
evening set	10910 Feb 25 16:52	23° \mathbb{H} 42'47		desc. node	10910 Dec 23 19:32	24° \mathbb{B} 26'39	
asc. node	10910 Mar 01 07:22	20° \mathbb{H} 00'56			10910 Dec 27 01:53	0° \mathbb{A}	
min. Earth dist.	10910 Mar 01 21:36	19° \mathbb{H} 18'07	0.66934 AU		10911 Jan 17 17:52	0° \mathbb{H}	
inferior conj	10910 Mar 03 13:04	17° \mathbb{H} 16'17	0°43'08	evening max el	10911 Jan 20 08:18	2° \mathbb{H} 38'37	27°01'11
minimum elong	10910 Mar 03 11:59	17° \mathbb{H} 19'36	0°42'54	retrograde	10911 Feb 02 15:51	10° \mathbb{H} 01'00	
morning rise	10910 Mar 09 07:50	11° \mathbb{H} 29'51		evening set	10911 Feb 09 06:43	7° \mathbb{H} 27'21	
direct	10910 Mar 12 11:46	10° \mathbb{H} 32'59		min. Earth dist.	10911 Feb 13 05:57	3° \mathbb{H} 36'38	0.65561 AU
morning max el	10910 Mar 19 02:47	14° \mathbb{H} 07'10	18°39'26	inferior conj	10911 Feb 15 09:18	1° \mathbb{H} 10'30	-0°15'52
	10910 Mar 30 23:13	0° \mathbb{Y}		minimum elong	10911 Feb 15 09:45	1° \mathbb{H} 09'14	0°15'21
desc. node	10910 Apr 03 23:24	6° \mathbb{Y} 11'28		transit middle	10911 Feb 15 09:45	1° \mathbb{H} 09'14	0°15'21
morning set	10910 Apr 09 10:49	14° \mathbb{Y} 45'38		transit begin	10911 Feb 15 08:54	1° \mathbb{H} 11'40	
	10910 Apr 19 04:24	0° \mathbb{B}		transit end	10911 Feb 15 10:36	1° \mathbb{H} 06'48	
max. Earth dist.	10910 Apr 24 21:00	8° \mathbb{B} 53'55	1.45603 AU	asc. node	10911 Feb 16 04:36	0° \mathbb{H} 15'55	
					10911 Feb 16 10:19	30° \mathbb{R} \mathbb{A}	
superior conj	10910 Apr 25 16:02	10° \mathbb{B} 08'21	-2°02'42	morning rise	10911 Feb 21 14:06	25° \mathbb{A} 36'11	
minimum elong	10910 Apr 25 08:45	9° \mathbb{B} 39'52	2°02'37	direct	10911 Feb 24 08:25	24° \mathbb{A} 54'53	
	10910 May 08 06:20	0° \mathbb{I}		morning max el	10911 Mar 02 17:44	28° \mathbb{A} 16'49	18°05'31
evening rise	10910 May 11 03:43	4° \mathbb{I} 36'30			10911 Mar 04 08:27	0° \mathbb{H}	
greatest brilliancy	10910 May 18 18:22	16° \mathbb{I} 45'07	-0.9m	morning set	10911 Mar 21 04:52	25° \mathbb{H} 29'21	
	10910 May 27 13:19	0° \mathbb{B}		desc. node	10911 Mar 21 20:07	26° \mathbb{H} 31'22	
asc. node	10910 May 28 05:17	0° \mathbb{B} 53'52			10911 Mar 23 23:30	0° \mathbb{Y}	
evening max el	10910 Jun 01 09:00	5° \mathbb{B} 48'43	18°41'56				
retrograde	10910 Jun 07 23:01	9° \mathbb{B} 24'41		superior conj	10911 Apr 05 00:01	19° \mathbb{Y} 12'19	-1°33'18
evening set	10910 Jun 11 05:31	8° \mathbb{B} 23'35		minimum elong	10911 Apr 04 14:41	18° \mathbb{Y} 35'35	1°32'28
inferior conj	10910 Jun 16 20:26	2° \mathbb{B} 45'22	3°08'36	max. Earth dist.	10911 Apr 07 17:16	23° \mathbb{Y} 28'30	1.45583 AU
minimum elong	10910 Jun 16 21:46	2° \mathbb{B} 41'16	3°07'51		10911 Apr 11 21:32	0° \mathbb{B}	
min. Earth dist.	10910 Jun 18 18:26	0° \mathbb{B} 23'59	0.65585 AU	evening rise	10911 Apr 21 02:58	14° \mathbb{B} 18'58	
	10910 Jun 19 02:28	30° \mathbb{R} \mathbb{I}			10911 May 01 07:47	0° \mathbb{I}	
morning rise	10910 Jun 22 13:14	26° \mathbb{I} 24'53		greatest brilliancy	10911 May 03 21:01	3° \mathbb{I} 50'36	-0.7m
direct	10910 Jun 29 00:22	23° \mathbb{I} 41'23		asc. node	10911 May 15 02:24	18° \mathbb{I} 53'10	
desc. node	10910 Jun 30 23:36	23° \mathbb{I} 54'46		evening max el	10911 May 15 16:48	19° \mathbb{I} 30'22	19°26'38
	10910 Jul 10 16:50	0° \mathbb{B}		retrograde	10911 May 22 20:20	23° \mathbb{I} 32'33	
morning max el	10910 Jul 12 06:31	1° \mathbb{B} 32'01	26°53'31	evening set	10911 May 26 11:24	22° \mathbb{I} 15'45	
	10910 Aug 02 13:11	0° \mathbb{Q}		inferior conj	10911 May 31 20:54	16° \mathbb{I} 22'46	3°17'07
morning set	10910 Aug 17 00:24	25° \mathbb{Q} 17'21		minimum elong	10911 May 31 21:03	16° \mathbb{I} 22'14	3°16'32
	10910 Aug 19 10:38	0° \mathbb{M}		min. Earth dist.	10911 Jun 02 03:56	14° \mathbb{I} 40'41	0.67036 AU
max. Earth dist.	10910 Aug 21 06:03	3° \mathbb{M} 36'02	1.33967 AU	morning rise	10911 Jun 06 06:19	10° \mathbb{I} 01'46	
asc. node	10910 Aug 24 05:07	9° \mathbb{M} 38'35		direct	10911 Jun 12 07:51	7° \mathbb{I} 21'45	
				desc. node	10911 Jun 17 20:38	9° \mathbb{I} 07'29	
superior conj	10910 Aug 25 15:12	12° \mathbb{M} 35'59	0°13'54	morning max el	10911 Jun 24 17:03	14° \mathbb{I} 46'30	25°41'46
minimum elong	10910 Aug 25 14:29	12° \mathbb{M} 32'13	0°13'31		10911 Jul 07 03:49	0° \mathbb{B}	
behind sun begin	10910 Aug 25 11:22	12° \mathbb{M} 15'58			10911 Jul 26 08:59	0° \mathbb{Q}	
behind sun end	10910 Aug 25 17:35	12° \mathbb{M} 48'29		morning set	10911 Jul 30 18:19	7° \mathbb{Q} 48'48	































































































































max. Earth dist.	10911 Aug 03 11:30	14°♌43'58	1.35795 AU		10912 Jul 17 15:29	0°♌	
superior conj	10911 Aug 09 07:51	26°♌10'58	-0°16'58	superior conj	10912 Jul 22 12:47	9°♌10'06	-0°50'12
minimum elong	10911 Aug 09 08:54	26°♌16'12	0°17'07	minimum elong	10912 Jul 22 16:08	9°♌26'10	0°50'05
asc. node	10911 Aug 11 01:55	29°♌43'46		asc. node	10912 Jul 27 22:45	19°♌44'29	
	10911 Aug 11 05:06	0°♍		evening rise	10912 Jul 31 07:16	26°♌23'41	
evening rise	10911 Aug 17 06:07	12°♍24'57			10912 Aug 02 03:12	0°♍	
	10911 Aug 26 10:58	0°♎		evening max el	10912 Aug 16 19:44	23°♍21'30	19°06'54
evening max el	10911 Sep 04 02:38	11°♎45'50	20°08'14	retrograde	10912 Aug 25 19:17	27°♍49'53	
desc. node	10911 Sep 13 18:39	17°♎00'13		evening set	10912 Aug 27 15:48	27°♍39'13	
retrograde	10911 Sep 14 17:44	17°♎02'43		desc. node	10912 Aug 30 15:56	26°♍40'41	
evening set	10911 Sep 16 16:41	16°♎52'46		inferior conj	10912 Sep 05 02:36	23°♍26'27	-1°41'54
inferior conj	10911 Sep 25 17:14	12°♎53'55	-3°35'06	minimum elong	10912 Sep 04 22:09	23°♍34'02	1°40'17
minimum elong	10911 Sep 25 08:05	13°♎07'34	3°31'59	min. Earth dist.	10912 Sep 07 22:13	21°♍31'46	0.56144 AU
min. Earth dist.	10911 Sep 27 09:09	11°♎54'27	0.54932 AU	morning rise	10912 Sep 13 01:28	18°♍42'11	
morning rise	10911 Oct 03 22:27	8°♎44'51		direct	10912 Sep 18 09:53	17°♍35'31	
direct	10911 Oct 08 11:25	8°♎00'14		morning max el	10912 Oct 02 13:49	24°♍49'18	25°46'32
morning max el	10911 Oct 22 01:40	14°♎39'20	24°04'54		10912 Oct 07 09:00	0°♎	
	10911 Nov 03 01:31	0°♏		asc. node	10912 Oct 23 23:29	26°♎03'09	
asc. node	10911 Nov 07 02:38	6°♏53'43			10912 Oct 25 23:42	0°♏	
morning set	10911 Nov 15 17:06	23°♏59'24		morning set	10912 Oct 30 04:23	8°♏42'31	
	10911 Nov 18 11:53	0°♐					
superior conj	10911 Nov 22 13:46	8°♐54'27	1°39'37	superior conj	10912 Nov 06 00:06	23°♏40'40	1°36'38
minimum elong	10911 Nov 22 13:44	8°♐54'21	1°40'10	minimum elong	10912 Nov 05 23:02	23°♏34'47	1°37'02
max. Earth dist.	10911 Nov 24 22:14	13°♐59'31	1.32805 AU	max. Earth dist.	10912 Nov 07 03:21	26°♏11'16	1.31883 AU
evening rise	10911 Nov 30 01:29	24°♐41'57		evening rise	10912 Nov 13 01:10	8°♐54'30	
	10911 Dec 02 17:42	0°♑			10912 Nov 24 02:31	0°♑	
desc. node	10911 Dec 10 16:33	14°♑29'59		desc. node	10912 Nov 26 13:38	4°♑08'44	
	10911 Dec 20 14:34	0°♒		evening max el	10912 Dec 15 05:42	28°♑42'55	27°25'41
evening max el	10912 Jan 02 20:35	15°♒57'09	27°28'32		10912 Dec 16 15:31	0°♒	
retrograde	10912 Jan 16 12:51	23°♒19'42		retrograde	10912 Dec 29 02:38	6°♒00'01	
evening set	10912 Jan 23 10:59	20°♒49'30		evening set	10913 Jan 05 02:44	3°♒42'09	
min. Earth dist.	10912 Jan 27 05:53	17°♒30'10	0.63847 AU	min. Earth dist.	10913 Jan 08 19:57	0°♒48'30	0.61867 AU
inferior conj	10912 Jan 29 20:34	14°♒48'50	-1°23'39		10913 Jan 09 17:33	30°♒♊	
minimum elong	10912 Jan 29 23:14	14°♒41'58	1°22'06	inferior conj	10913 Jan 11 19:51	28°♒04'02	-2°38'10
asc. node	10912 Feb 03 01:48	10°♒55'22		minimum elong	10913 Jan 12 01:11	27°♒51'47	2°35'34
morning rise	10912 Feb 05 13:30	9°♒29'22		morning rise	10913 Jan 19 02:14	23°♒02'19	
direct	10912 Feb 07 23:55	9°♒00'01		asc. node	10913 Jan 19 22:58	22°♒49'02	
morning max el	10912 Feb 14 11:15	12°♒20'39	17°48'44	direct	10913 Jan 21 07:05	22°♒41'08	
	10912 Feb 26 15:59	0°♋		morning max el	10913 Jan 28 04:10	26°♒10'19	17°49'43
morning set	10912 Mar 02 02:34	7°♋33'09			10913 Jan 31 10:55	0°♋	
desc. node	10912 Mar 07 16:50	17°♋02'12		morning set	10913 Feb 12 21:59	20°♋38'44	
					10913 Feb 18 03:57	0°♋	
superior conj	10912 Mar 14 23:51	29°♋05'03	-0°52'53	desc. node	10913 Feb 22 13:35	7°♋40'11	
minimum elong	10912 Mar 14 18:11	28°♋42'02	0°52'01				
	10912 Mar 15 13:24	0°♌		superior conj	10913 Feb 24 00:03	10°♋07'35	-0°10'56
max. Earth dist.	10912 Mar 20 12:18	7°♌56'12	1.44830 AU	minimum elong	10913 Feb 23 23:03	10°♋03'19	0°10'31
evening rise	10912 Mar 30 14:45	23°♌40'29		behind sun begin	10913 Feb 23 16:28	9°♋35'15	
	10912 Apr 03 18:18	0°♍		behind sun end	10913 Feb 24 05:38	10°♋31'20	
	10912 Apr 24 21:09	0°♎		max. Earth dist.	10913 Mar 03 03:47	22°♋01'28	1.43434 AU
evening max el	10912 Apr 27 19:02	3°♎13'17	20°26'24		10913 Mar 08 03:26	0°♎	
asc. node	10912 Apr 30 23:35	6°♎00'27		evening rise	10913 Mar 10 06:38	3°♎20'41	
retrograde	10912 May 05 19:07	7°♎51'48			10913 Mar 28 04:44	0°♏	
evening set	10912 May 09 19:30	6°♎19'12		evening max el	10913 Apr 10 15:49	16°♏57'36	21°38'04
inferior conj	10912 May 15 02:27	0°♎13'12	3°12'45	asc. node	10913 Apr 17 20:47	22°♏01'09	
minimum elong	10912 May 15 01:34	0°♎16'13	3°12'11	retrograde	10913 Apr 19 17:22	22°♏17'56	
	10912 May 15 06:17	30°♏♊		evening set	10913 Apr 24 04:03	20°♏29'52	
min. Earth dist.	10912 May 15 19:22	29°♏15'08	0.68036 AU	inferior conj	10913 Apr 29 10:50	14°♏13'03	2°57'22
morning rise	10912 May 20 07:23	23°♏54'45		minimum elong	10913 Apr 29 09:10	14°♏18'52	2°56'42
direct	10912 May 25 20:53	21°♏26'35		min. Earth dist.	10913 Apr 29 14:37	13°♏59'54	0.68579 AU
desc. node	10912 Jun 03 17:36	25°♏55'00		morning rise	10913 May 04 14:06	7°♏59'06	
morning max el	10912 Jun 06 02:47	28°♏10'52	24°15'57	direct	10913 May 09 14:27	5°♏48'43	
	10912 Jun 07 20:18	0°♐		morning max el	10913 May 19 13:19	11°♏42'09	22°46'01
	10912 Jun 29 20:42	0°♑		desc. node	10913 May 21 14:32	13°♏52'24	
morning set	10912 Jul 11 17:23	19°♑26'45			10913 Jun 03 02:50	0°♐	
max. Earth dist.	10912 Jul 15 09:28	25°♑54'58	1.37963 AU	morning set	10913 Jun 22 16:33	29°♐58'28	

	10913 Jun 22 16:55	0°☿		morning max el	10914 May 02 04:02	25°♊22'52	21°20'49
max. Earth dist.	10913 Jun 27 06:40	7°☿39'47	1.40264 AU		10914 May 06 07:47	0°♋	
				desc. node	10914 May 08 11:24	2°♋40'29	
superior conj	10913 Jul 05 01:56	21°☿24'10	-1°23'12		10914 May 27 13:18	0°♌	
minimum elong	10913 Jul 05 07:34	21°☿49'47	1°23'00	morning set	10914 Jun 02 13:25	9°♌19'23	
	10913 Jul 09 17:40	0°♍		max. Earth dist.	10914 Jun 09 09:31	20°♌19'11	1.42412 AU
evening rise	10913 Jul 14 23:26	9°♍54'54			10914 Jun 15 04:36	0°☿	
asc. node	10913 Jul 14 19:38	9°♍36'50					
	10913 Jul 26 09:40	0°♎		superior conj	10914 Jun 16 18:49	2°☿43'25	-1°51'48
evening max el	10913 Jul 30 23:44	5°♎40'20	18°26'48	minimum elong	10914 Jun 17 01:18	3°☿11'19	1°51'50
retrograde	10913 Aug 07 15:22	9°♎30'47		evening rise	10914 Jun 28 02:39	22°☿49'05	
evening set	10913 Aug 09 17:31	9°♎14'25		asc. node	10914 Jul 01 16:34	29°☿16'40	
inferior conj	10913 Aug 17 09:12	4°♎41'50	0°03'06		10914 Jul 02 02:16	0°♏	
minimum elong	10913 Aug 17 09:18	4°♎41'37	0°02'45	evening max el	10914 Jul 14 10:31	18°♏32'48	18°06'51
transit middle	10913 Aug 17 09:18	4°♎41'37	0°02'45	retrograde	10914 Jul 21 05:38	22°♏00'37	
transit begin	10913 Aug 17 05:48	4°♎48'36		evening set	10914 Jul 23 15:32	21°♏34'45	
transit end	10913 Aug 17 12:49	4°♎34'38		inferior conj	10914 Jul 30 12:53	16°♏41'27	1°25'01
desc. node	10913 Aug 17 13:15	4°♎33'46		minimum elong	10914 Jul 30 15:16	16°♏35'57	1°23'47
min. Earth dist.	10913 Aug 20 16:59	2°♎04'04	0.58027 AU	min. Earth dist.	10914 Aug 02 19:13	13°♏41'20	0.60253 AU
	10913 Aug 23 17:26	30°♏♏		desc. node	10914 Aug 04 10:31	12°♏19'14	
morning rise	10913 Aug 24 21:33	29°♏20'57		morning rise	10914 Aug 06 12:05	10°♏51'27	
direct	10913 Aug 30 23:05	27°♏46'00		direct	10914 Aug 13 00:49	8°♏47'52	
	10913 Sep 07 09:50	0°♐		morning max el	10914 Aug 27 08:14	16°♏42'14	27°49'28
morning max el	10913 Sep 14 07:25	5°♐24'32	27°05'18		10914 Sep 07 07:29	0°♐	
	10913 Oct 02 10:47	0°♑			10914 Sep 25 01:02	0°♑	
asc. node	10913 Oct 10 20:18	15°♑35'02		asc. node	10914 Sep 27 17:07	5°♑22'56	
morning set	10913 Oct 14 13:29	23°♑15'56		morning set	10914 Sep 28 18:38	7°♑35'09	
	10913 Oct 17 16:15	0°♒		max. Earth dist.	10914 Oct 04 21:03	20°♑45'04	1.31511 AU
superior conj	10913 Oct 21 11:48	8°♒27'23	1°27'54	superior conj	10914 Oct 05 23:04	23°♑09'13	1°13'44
minimum elong	10913 Oct 21 09:58	8°♒17'09	1°28'03	minimum elong	10914 Oct 05 20:51	22°♑56'54	1°13'35
max. Earth dist.	10913 Oct 21 12:09	8°♒29'22	1.31451 AU		10914 Oct 09 01:05	0°♒	
evening rise	10913 Oct 28 06:48	23°♒21'18		evening rise	10914 Oct 12 16:16	7°♒56'29	
	10913 Oct 31 11:30	0°♓			10914 Oct 23 23:32	0°♓	
desc. node	10913 Nov 13 10:47	23°♓12'18		desc. node	10914 Oct 31 07:59	11°♓27'01	
	10913 Nov 18 03:09	0°♔		evening max el	10914 Nov 09 04:33	21°♓52'27	25°39'07
evening max el	10913 Nov 27 09:08	10°♔43'37	26°48'50	retrograde	10914 Nov 23 01:49	28°♓52'33	
retrograde	10913 Dec 11 07:37	17°♔52'18		evening set	10914 Nov 29 04:18	27°♓26'23	
evening set	10913 Dec 18 02:03	15°♔56'20		min. Earth dist.	10914 Dec 03 16:57	24°♓49'19	0.57698 AU
min. Earth dist.	10913 Dec 21 23:27	13°♔18'24	0.59752 AU	inferior conj	10914 Dec 06 16:28	22°♓45'19	-5°01'58
inferior conj	10913 Dec 25 03:36	10°♔46'03	-3°54'25	minimum elong	10914 Dec 07 00:09	22°♓31'57	4°59'45
minimum elong	10913 Dec 25 11:15	10°♔30'43	3°51'23	morning rise	10914 Dec 14 22:21	18°♓26'36	
morning rise	10914 Jan 01 23:09	6°♔04'49		direct	10914 Dec 17 04:14	18°♓11'00	
direct	10914 Jan 04 01:55	5°♔48'10		asc. node	10914 Dec 24 17:14	21°♓20'28	
asc. node	10914 Jan 06 20:08	6°♔17'51		morning max el	10914 Dec 25 21:37	22°♓24'37	18°50'39
morning max el	10914 Jan 11 16:53	9°♔35'05	18°09'45		10914 Dec 31 21:49	0°♔	
	10914 Jan 24 23:48	0°♕		morning set	10915 Jan 11 06:26	18°♔43'07	
morning set	10914 Jan 27 08:53	4°♕26'45			10915 Jan 17 00:49	0°♕	
superior conj	10914 Feb 06 00:00	22°♕16'17	0°26'18	superior conj	10915 Jan 19 19:29	5°♕19'21	0°56'02
minimum elong	10914 Feb 06 01:59	22°♕25'08	0°26'24	minimum elong	10915 Jan 19 22:30	5°♕33'40	0°56'07
desc. node	10914 Feb 09 10:21	28°♕21'01		max. Earth dist.	10915 Jan 26 22:14	18°♕22'04	1.39380 AU
	10914 Feb 10 09:06	0°♖		desc. node	10915 Jan 27 07:09	19°♕01'24	
max. Earth dist.	10914 Feb 13 14:53	5°♖32'14	1.41547 AU	evening rise	10915 Jan 30 20:20	25°♕09'59	
evening rise	10914 Feb 18 14:52	13°♖47'22			10915 Feb 02 17:36	0°♖	
	10914 Mar 01 01:02	0°♗			10915 Feb 22 18:12	0°♗	
	10914 Mar 23 15:03	0°♘		evening max el	10915 Mar 06 22:24	14°♗32'59	24°17'19
evening max el	10914 Mar 24 08:20	0°♘44'05	22°57'03	retrograde	10915 Mar 18 06:08	21°♗11'13	
retrograde	10914 Apr 03 13:28	6°♘46'08		asc. node	10915 Mar 22 15:20	19°♗42'57	
asc. node	10914 Apr 04 18:03	6°♘39'20		evening set	10915 Mar 23 16:05	18°♗55'12	
evening set	10914 Apr 08 11:26	4°♘43'20		min. Earth dist.	10915 Mar 28 07:24	13°♗35'55	0.68317 AU
	10914 Apr 12 14:35	30°♗♗		inferior conj	10915 Mar 29 04:11	12°♗25'55	1°57'08
inferior conj	10914 Apr 13 20:03	28°♗18'31	2°32'00	minimum elong	10915 Mar 29 02:03	12°♗33'07	1°56'24
minimum elong	10914 Apr 13 17:56	28°♗25'51	2°31'15	morning rise	10915 Apr 03 12:06	6°♗25'18	
min. Earth dist.	10914 Apr 13 11:21	28°♗48'40	0.68667 AU	direct	10915 Apr 07 10:11	4°♗57'43	
morning rise	10914 Apr 19 00:20	22°♗10'36		morning max el	10915 Apr 15 01:49	9°♗15'34	20°06'28
direct	10914 Apr 23 11:20	20°♗21'13		desc. node	10915 Apr 25 08:12	22°♗05'11	

	10915 Apr 30 19:29	0°♄		direct	10916 Mar 21 09:37	19°♄33'00	
morning set	10915 May 12 15:05	17°♄51'56		morning max el	10916 Mar 28 07:28	23°♄19'34	19°06'39
	10915 May 20 09:44	0°♄			10916 Apr 02 22:34	0°♄	
max. Earth dist.	10915 May 22 19:42	3°♄50'14	1.44144 AU	greatest brilliancy	10916 Apr 10 11:04	10°♄49'34	-0.7m
				desc. node	10916 Apr 11 04:57	11°♄56'55	
superior conj	10915 May 28 11:44	12°♄59'44	-2°10'02	morning set	10916 Apr 20 18:03	26°♄35'50	
minimum elong	10915 May 28 15:24	13°♄14'45	2°10'28		10916 Apr 22 22:47	0°♄	
	10915 Jun 07 15:28	0°♄		max. Earth dist.	10916 May 04 11:28	17°♄58'07	1.45268 AU
evening rise	10915 Jun 10 12:02	4°♄54'12					
asc. node	10915 Jun 18 13:35	18°♄38'07		superior conj	10916 May 07 06:04	22°♄20'22	-2°11'16
	10915 Jun 26 08:16	0°♄		minimum elong	10916 May 07 02:45	22°♄07'17	2°11'38
evening max el	10915 Jun 28 00:09	1°♄48'11	18°06'03		10916 May 12 01:45	0°♄	
retrograde	10915 Jul 04 09:51	5°♄08'32		evening rise	10916 May 21 23:03	16°♄01'10	
evening set	10915 Jul 07 03:38	4°♄30'25			10916 May 30 12:43	0°♄	
	10915 Jul 12 18:08	30°♄♄		asc. node	10916 Jun 04 10:38	7°♄34'49	
inferior conj	10915 Jul 13 10:06	29°♄18'08	2°21'52	evening max el	10916 Jun 10 13:28	15°♄18'42	18°23'42
minimum elong	10915 Jul 13 12:47	29°♄11'00	2°20'37	retrograde	10916 Jun 16 23:31	18°♄45'29	
min. Earth dist.	10915 Jul 16 06:32	26°♄18'23	0.62508 AU	evening set	10916 Jun 20 01:12	17°♄53'16	
morning rise	10915 Jul 19 19:58	23°♄09'14		inferior conj	10916 Jun 25 20:44	12°♄24'04	2°56'47
desc. node	10915 Jul 22 07:45	21°♄39'53		minimum elong	10916 Jun 25 22:42	12°♄18'18	2°55'51
direct	10915 Jul 26 12:50	20°♄42'25		min. Earth dist.	10916 Jun 28 03:22	9°♄44'14	0.64557 AU
morning max el	10915 Aug 09 15:04	28°♄44'39	27°55'01	morning rise	10916 Jul 01 19:01	6°♄05'31	
	10915 Aug 10 20:24	0°♄		direct	10916 Jul 08 09:41	3°♄24'52	
	10915 Sep 01 04:48	0°♄		desc. node	10916 Jul 08 04:54	3°♄25'00	
morning set	10915 Sep 12 17:44	21°♄34'00		morning max el	10916 Jul 22 01:16	11°♄24'27	27°24'36
asc. node	10915 Sep 14 13:54	25°♄20'59			10916 Aug 05 19:09	0°♄	
	10915 Sep 16 18:54	0°♄			10916 Aug 23 16:38	0°♄	
max. Earth dist.	10915 Sep 18 02:05	2°♄47'05	1.32065 AU	morning set	10916 Aug 26 08:13	5°♄06'10	
				max. Earth dist.	10916 Aug 30 23:22	14°♄26'19	1.33125 AU
superior conj	10915 Sep 20 08:00	7°♄40'02	0°54'18	asc. node	10916 Aug 31 10:40	15°♄24'58	
minimum elong	10915 Sep 20 05:54	7°♄28'28	0°53'57				
evening rise	10915 Sep 27 03:30	22°♄33'43		superior conj	10916 Sep 03 12:36	21°♄54'31	0°29'57
	10915 Sep 30 16:31	0°♄		minimum elong	10916 Sep 03 11:11	21°♄46'57	0°29'32
desc. node	10915 Oct 18 05:14	28°♄33'51			10916 Sep 07 06:56	0°♄	
	10915 Oct 19 11:45	0°♄		evening rise	10916 Sep 10 14:41	7°♄07'54	
evening max el	10915 Oct 21 16:33	2°♄15'40	24°05'46		10916 Sep 22 14:51	0°♄	
retrograde	10915 Nov 04 08:01	9°♄05'14		evening max el	10916 Oct 02 03:45	12°♄21'33	22°25'02
evening set	10915 Nov 09 06:12	8°♄12'02		desc. node	10916 Oct 04 02:31	14°♄07'48	
min. Earth dist.	10915 Nov 15 03:14	5°♄17'00	0.55960 AU	retrograde	10916 Oct 15 02:24	18°♄48'05	
inferior conj	10915 Nov 17 08:45	3°♄55'23	-5°43'12	evening set	10916 Oct 18 12:53	18°♄22'02	
minimum elong	10915 Nov 17 11:48	3°♄50'42	5°42'30	min. Earth dist.	10916 Oct 26 10:38	14°♄50'59	0.54853 AU
morning rise	10915 Nov 25 19:27	29°♄57'34		inferior conj	10916 Oct 27 07:41	14°♄21'15	-5°36'44
	10915 Nov 25 15:13	30°♄♄		minimum elong	10916 Oct 27 02:28	14°♄28'37	5°35'48
direct	10915 Nov 28 10:57	29°♄39'31		morning rise	10916 Nov 04 17:39	10°♄33'56	
	10915 Dec 01 04:37	0°♄		direct	10916 Nov 08 00:38	10°♄09'30	
morning max el	10915 Dec 08 14:42	4°♄28'59	19°54'10	morning max el	10916 Nov 19 18:06	15°♄42'08	21°19'57
asc. node	10915 Dec 11 14:16	7°♄43'27		asc. node	10916 Nov 27 11:14	25°♄10'19	
	10915 Dec 24 19:53	0°♄			10916 Nov 30 11:33	0°♄	
morning set	10915 Dec 26 11:05	3°♄17'35		morning set	10916 Dec 09 20:06	18°♄01'44	
					10916 Dec 15 12:43	0°♄	
superior conj	10916 Jan 03 05:40	19°♄03'40	1°17'41				
minimum elong	10916 Jan 03 08:26	19°♄17'26	1°17'58	superior conj	10916 Dec 17 02:24	3°♄16'32	1°31'39
	10916 Jan 08 21:11	0°♄		minimum elong	10916 Dec 17 04:14	3°♄26'04	1°32'08
max. Earth dist.	10916 Jan 09 04:41	0°♄35'11	1.37179 AU	max. Earth dist.	10916 Dec 21 14:56	12°♄28'23	1.35181 AU
evening rise	10916 Jan 12 22:19	7°♄25'50		evening rise	10916 Dec 25 17:36	20°♄26'10	
desc. node	10916 Jan 14 04:00	9°♄37'51			10916 Dec 30 23:35	0°♄	
	10916 Jan 26 13:36	0°♄		desc. node	10916 Dec 31 00:53	0°♄05'44	
evening max el	10916 Feb 17 11:40	28°♄22'55	25°32'05		10917 Jan 19 12:43	0°♄	
	10916 Feb 19 04:59	0°♄		evening max el	10917 Jan 30 01:03	12°♄08'19	26°34'10
retrograde	10916 Feb 29 18:28	5°♄27'49		retrograde	10917 Feb 12 01:34	19°♄28'11	
evening set	10916 Mar 06 16:27	3°♄01'17		evening set	10917 Feb 18 10:43	16°♄55'31	
asc. node	10916 Mar 08 12:36	1°♄15'06		min. Earth dist.	10917 Feb 22 12:53	12°♄45'31	0.66388 AU
	10916 Mar 09 15:10	30°♄♄		asc. node	10917 Feb 23 09:52	11°♄43'08	
min. Earth dist.	10916 Mar 11 00:37	28°♄17'04	0.67549 AU	inferior conj	10917 Feb 24 09:30	10°♄32'03	0°19'14
inferior conj	10916 Mar 12 09:22	26°♄32'07	1°12'54	minimum elong	10917 Feb 24 08:59	10°♄33'37	0°19'16
minimum elong	10916 Mar 12 07:43	26°♄37'23	1°12'23	morning rise	10917 Mar 02 08:17	4°♄50'37	
morning rise	10916 Mar 17 23:28	20°♄40'12		direct	10917 Mar 05 07:49	4°♄00'59	

morning max el	10917 Mar 11 19:39	7° H 28'51	18°22'57	minimum elong	10918 Feb 08 03:35	24° \approx 17'05	0°42'42
	10917 Mar 27 17:27	0° Y		asc. node	10918 Feb 10 07:05	22° \approx 01'18	
desc. node	10917 Mar 29 01:39	2° Y 07'52		morning rise	10918 Feb 14 12:01	18° \approx 52'04	
morning set	10917 Mar 31 19:08	6° Y 28'18		direct	10918 Feb 17 02:39	18° \approx 16'21	
	10917 Apr 15 17:06	0° B		morning max el	10918 Feb 23 12:00	21° \approx 36'48	17°56'09
					10918 Mar 02 01:24	0° H	
superior conj	10917 Apr 16 12:36	1° B 16'16	-1°52'12	morning set	10918 Mar 13 01:29	17° H 47'43	
minimum elong	10917 Apr 16 03:34	0° B 40'56	1°51'45	desc. node	10918 Mar 15 22:22	22° H 32'50	
max. Earth dist.	10917 Apr 17 06:10	2° B 24'56	1.45680 AU		10918 Mar 20 11:26	0° Y	
evening rise	10917 May 02 09:58	26° B 08'53		superior conj	10918 Mar 27 01:31	10° Y 36'06	-1°16'53
	10917 May 04 20:44	0° II		minimum elong	10918 Mar 26 17:19	10° Y 03'25	1°15'56
greatest brilliancy	10917 May 12 10:45	11° II 51'31	-0.8m	max. Earth dist.	10918 Mar 31 01:49	16° Y 56'54	1.45351 AU
asc. node	10917 May 22 07:44	25° II 57'55			10918 Apr 08 10:56	0° B	
evening max el	10917 May 24 23:50	28° II 57'28	18°59'01	evening rise	10918 Apr 12 02:28	5° B 37'04	
	10917 May 26 02:18	0° B		greatest brilliancy	10918 Apr 26 13:17	27° B 27'46	-0.6m
retrograde	10917 May 31 18:50	2° B 43'27			10918 Apr 28 07:15	0° II	
evening set	10917 Jun 04 04:48	1° B 35'55		evening max el	10918 May 08 05:24	12° II 39'55	19°50'31
	10917 Jun 06 03:28	30° R II		asc. node	10918 May 09 04:52	13° II 36'37	
inferior conj	10917 Jun 09 17:03	25° II 51'25	3°13'55	retrograde	10918 May 15 16:53	16° II 56'17	
minimum elong	10917 Jun 09 17:52	25° II 48'46	3°13'16	evening set	10918 May 19 11:50	15° II 32'48	
min. Earth dist.	10917 Jun 11 08:43	23° II 45'30	0.66251 AU	inferior conj	10918 May 24 19:56	9° II 34'21	3°16'41
morning rise	10917 Jun 15 06:20	19° II 30'02		minimum elong	10918 May 24 19:38	9° II 35'23	3°16'08
direct	10917 Jun 21 13:48	16° II 46'32		min. Earth dist.	10918 May 25 20:56	8° II 10'28	0.67518 AU
desc. node	10917 Jun 25 01:58	17° II 29'11		morning rise	10918 May 30 03:06	3° II 14'17	
morning max el	10917 Jul 04 12:01	24° II 28'54	26°25'20	direct	10918 Jun 04 23:53	0° II 38'08	
	10917 Jul 09 11:14	0° B		desc. node	10918 Jun 11 23:00	3° II 25'14	
	10917 Jul 30 05:26	0° Q		morning max el	10918 Jun 16 21:52	7° II 47'05	25°06'21
morning set	10917 Aug 09 10:50	18° Q 03'13			10918 Jul 04 06:25	0° B	
max. Earth dist.	10917 Aug 13 10:15	25° Q 41'17	1.34684 AU	morning set	10918 Jul 22 21:18	0° Q 13'11	
	10917 Aug 15 14:21	0° P			10918 Jul 22 18:21	0° Q	
superior conj	10917 Aug 18 10:27	5° P 46'31	0°01'14	max. Earth dist.	10918 Jul 26 11:36	6° Q 45'44	1.36681 AU
minimum elong	10917 Aug 18 10:25	5° P 46'16	0°00'56	superior conj	10918 Aug 01 22:36	19° Q 07'34	-0°30'52
behind sun begin	10917 Aug 18 04:32	5° P 16'00		minimum elong	10918 Aug 02 00:34	19° Q 17'18	0°30'55
behind sun end	10917 Aug 18 16:18	6° P 16'37		asc. node	10918 Aug 05 04:15	25° Q 34'48	
asc. node	10917 Aug 18 07:27	5° P 31'01			10918 Aug 07 08:42	0° P	
evening rise	10917 Aug 25 23:50	21° P 33'52		evening rise	10918 Aug 10 04:39	5° P 44'29	
	10917 Aug 30 03:16	0° B			10918 Aug 23 23:17	0° B	
evening max el	10917 Sep 13 23:44	22° B 48'07	20°53'10	evening max el	10918 Aug 27 09:14	3° B 56'54	19°39'36
desc. node	10917 Sep 20 23:49	27° B 39'43		retrograde	10918 Sep 06 06:41	8° B 51'54	
retrograde	10917 Sep 25 13:54	28° B 33'05		desc. node	10918 Sep 07 21:08	8° B 44'43	
evening set	10917 Sep 27 20:48	28° B 20'35		evening set	10918 Sep 08 03:21	8° B 42'15	
inferior conj	10917 Oct 06 23:44	24° B 25'24	-4°32'36	inferior conj	10918 Sep 16 23:15	4° B 38'50	-2°47'45
minimum elong	10917 Oct 06 13:50	24° B 39'29	4°29'47	minimum elong	10918 Sep 16 15:49	4° B 50'28	2°45'02
min. Earth dist.	10917 Oct 07 18:33	23° B 58'39	0.54628 AU	min. Earth dist.	10918 Sep 19 04:48	3° B 15'10	0.55352 AU
morning rise	10917 Oct 15 06:58	20° B 29'57		morning rise	10918 Sep 25 02:19	0° B 16'11	
direct	10917 Oct 19 08:51	19° B 54'12			10918 Sep 25 22:13	30° R P	
morning max el	10917 Nov 01 09:54	26° B 10'50	23°02'37	direct	10918 Sep 29 23:58	29° P 22'58	
	10917 Nov 05 00:53	0° M			10918 Oct 04 00:49	0° B	
asc. node	10917 Nov 14 08:09	13° M 26'28		morning max el	10918 Oct 13 20:53	6° B 17'28	24°49'45
	10917 Nov 22 23:11	0° A			10918 Oct 30 22:37	0° M	
morning set	10917 Nov 24 07:26	2° A 49'49		asc. node	10918 Nov 01 05:01	2° M 19'11	
				morning set	10918 Nov 08 19:13	17° M 35'56	
superior conj	10917 Dec 01 06:25	17° A 48'36	1°38'34		10918 Nov 14 11:33	0° A	
minimum elong	10917 Dec 01 07:04	17° A 52'08	1°39'08	superior conj	10918 Nov 15 15:03	2° A 31'12	1°39'04
max. Earth dist.	10917 Dec 04 08:50	24° A 23'15	1.33551 AU	minimum elong	10918 Nov 15 14:34	2° A 28'31	1°39'34
	10917 Dec 07 02:12	0° B		max. Earth dist.	10918 Nov 17 10:40	6° A 29'32	1.32365 AU
evening rise	10917 Dec 09 02:32	4° B 01'46		evening rise	10918 Nov 22 21:41	18° A 02'54	
desc. node	10917 Dec 17 21:53	20° B 20'12			10918 Nov 29 00:16	0° B	
	10917 Dec 23 18:16	0° \approx		desc. node	10918 Dec 04 18:57	10° B 14'14	
evening max el	10918 Jan 12 14:22	25° \approx 41'03	27°16'10		10918 Dec 18 04:16	0° \approx	
	10918 Jan 17 19:33	0° H		evening max el	10918 Dec 26 01:53	8° \approx 48'06	27°31'17
retrograde	10918 Jan 26 02:34	3° H 04'37		retrograde	10919 Jan 08 20:25	16° \approx 07'54	
evening set	10918 Feb 01 20:48	0° H 31'44		evening set	10919 Jan 15 20:08	13° \approx 42'11	
	10918 Feb 02 12:50	30° R \approx		min. Earth dist.	10919 Jan 19 14:03	10° \approx 34'27	0.63037 AU
min. Earth dist.	10918 Feb 05 18:03	26° \approx 54'30	0.64869 AU				
inferior conj	10918 Feb 08 02:17	24° \approx 20'40	-0°43'38				

inferior conj	10919 Jan 22 08:53	7° \approx 50'30	-1°54'39	minimum elong	10920 Jan 05 08:26	20° \approx 38'46	3°07'51
minimum elong	10919 Jan 22 12:39	7° \approx 41'13	1°52'37	morning rise	10920 Jan 12 14:09	15° \approx 59'30	
asc. node	10919 Jan 28 04:17	3° \approx 07'51		direct	10920 Jan 14 17:45	15° \approx 40'34	
morning rise	10919 Jan 29 07:25	2° \approx 37'53		asc. node	10920 Jan 15 01:29	15° \approx 41'00	
direct	10919 Jan 31 15:13	2° \approx 12'20		morning max el	10920 Jan 21 21:12	19° \approx 15'44	17°55'50
morning max el	10919 Feb 07 05:36	5° \approx 35'23	17°46'52		10920 Jan 29 17:38	0° \approx	
morning set	10919 Feb 23 09:18	0° \approx 20'49		morning set	10920 Feb 06 11:59	13° \approx 46'37	
	10919 Feb 23 04:31	0° \approx			10920 Feb 15 11:49	0° \approx	
desc. node	10919 Mar 02 19:07	13° \approx 07'23					
				superior conj	10920 Feb 16 22:02	2° \approx 29'42	0°05'43
superior conj	10919 Mar 07 11:18	20° \approx 57'29	-0°34'47	minimum elong	10920 Feb 16 22:33	2° \approx 31'58	0°05'57
minimum elong	10919 Mar 07 07:43	20° \approx 42'41	0°34'06	behind sun begin	10920 Feb 16 14:54	1° \approx 58'38	
	10919 Mar 13 00:25	0° \approx		behind sun end	10920 Feb 17 06:12	3° \approx 05'13	
max. Earth dist.	10919 Mar 13 20:05	1° \approx 18'52	1.44313 AU	desc. node	10920 Feb 17 15:52	3° \approx 47'07	
evening rise	10919 Mar 22 14:13	15° \approx 02'42		max. Earth dist.	10920 Feb 24 10:12	15° \approx 12'32	1.42679 AU
	10919 Apr 01 11:44	0° \approx		evening rise	10920 Mar 01 11:58	25° \approx 00'20	
evening max el	10919 Apr 21 05:20	26° \approx 23'59	20°55'45		10920 Mar 04 16:35	0° \approx	
	10919 Apr 25 13:38	0° \approx			10920 Mar 25 10:25	0° \approx	
asc. node	10919 Apr 26 02:03	0° \approx 17'55		evening max el	10920 Apr 03 00:01	10° \approx 08'49	22°11'04
retrograde	10919 Apr 29 15:35	1° \approx 19'23		asc. node	10920 Apr 11 23:18	15° \approx 45'45	
	10919 May 03 09:43	30° \approx 8'8		retrograde	10920 Apr 12 13:07	15° \approx 47'22	
evening set	10919 May 03 20:20	29° \approx 8'39'58		evening set	10920 Apr 17 04:35	13° \approx 52'37	
inferior conj	10919 May 09 02:57	23° \approx 8'29'10	3°07'28	inferior conj	10920 Apr 22 11:55	7° \approx 31'51	2°47'46
minimum elong	10919 May 09 01:42	23° \approx 8'33'30	3°06'53	minimum elong	10920 Apr 22 10:01	7° \approx 38'29	2°47'04
min. Earth dist.	10919 May 09 14:08	22° \approx 8'50'27	0.68325 AU	min. Earth dist.	10920 Apr 22 10:13	7° \approx 37'47	0.68670 AU
morning rise	10919 May 14 06:51	17° \approx 8'12'44		morning rise	10920 Apr 27 15:18	1° \approx 20'28	
direct	10919 May 19 14:54	14° \approx 8'51'39			10920 Apr 29 14:37	30° \approx 8'9	
desc. node	10919 May 29 19:58	20° \approx 8'45'21		direct	10920 May 02 09:51	29° \approx 9'19'04	
morning max el	10919 May 30 07:35	21° \approx 8'14'20	23°37'43		10920 May 05 09:51	0° \approx	
	10919 Jun 06 20:51	0° \approx		morning max el	10920 May 11 19:38	4° \approx 49'56	22°08'50
	10919 Jun 27 12:20	0° \approx		desc. node	10920 May 15 16:52	9° \approx 06'27	
morning set	10919 Jul 04 10:44	11° \approx 24'05			10920 May 31 01:29	0° \approx	
max. Earth dist.	10919 Jul 08 08:49	18° \approx 20'38	1.38944 AU	morning set	10920 Jun 13 22:38	21° \approx 12'51'10	
	10919 Jul 14 22:01	0° \approx			10920 Jun 19 03:59	0° \approx	
				max. Earth dist.	10920 Jun 19 08:10	0° \approx 17'34	1.41212 AU
superior conj	10919 Jul 15 21:22	1° \approx 48'59	-1°04'24				
minimum elong	10919 Jul 16 01:45	2° \approx 09'32	1°04'14	superior conj	10920 Jun 27 02:22	13° \approx 40'15	-1°36'12
asc. node	10919 Jul 23 01:07	15° \approx 03'24'1		minimum elong	10920 Jun 27 08:39	14° \approx 08'12	1°36'02
evening rise	10919 Jul 25 02:26	19° \approx 03'25'4			10920 Jul 06 01:10	0° \approx	
	10919 Jul 30 14:09	0° \approx		evening rise	10920 Jul 07 13:37	2° \approx 49'36	
evening max el	10919 Aug 10 07:24	15° \approx 51'38	18°47'17	asc. node	10920 Jul 08 22:01	5° \approx 20'14	
retrograde	10919 Aug 18 16:01	20° \approx 02'20		evening max el	10920 Jul 23 14:38	28° \approx 02'5'08	18°15'53
evening set	10919 Aug 20 14:28	19° \approx 04'49'42			10920 Jul 25 10:00	0° \approx	
desc. node	10919 Aug 25 18:26	17° \approx 03'10'1		retrograde	10920 Jul 30 20:22	2° \approx 04'33	
inferior conj	10919 Aug 28 17:17	15° \approx 02'28'25	-0°55'09	evening set	10920 Aug 02 01:34	1° \approx 44'39	
minimum elong	10919 Aug 28 15:00	15° \approx 03'32'35	0°54'26		10920 Aug 05 14:27	30° \approx 8'8	
min. Earth dist.	10919 Aug 31 19:45	13° \approx 03'13'44	0.56883 AU	inferior conj	10920 Aug 09 09:07	27° \approx 03'01	0°40'58
morning rise	10919 Sep 05 12:12	10° \approx 02'28'20		minimum elong	10920 Aug 09 10:29	27° \approx 00'08	0°40'06
direct	10919 Sep 11 04:19	9° \approx 02'10'26		desc. node	10920 Aug 11 15:43	25° \approx 06'18	
morning max el	10919 Sep 25 10:54	16° \approx 03'35'01	26°23'44	min. Earth dist.	10920 Aug 12 17:34	24° \approx 02'12'51	0.58944 AU
	10919 Oct 06 10:40	0° \approx		morning rise	10920 Aug 16 15:59	21° \approx 02'28'11	
asc. node	10919 Oct 19 01:52	21° \approx 03'39'12		direct	10920 Aug 22 22:50	19° \approx 04'05'4	
	10919 Oct 23 04:13	0° \approx		morning max el	10920 Sep 06 07:49	27° \approx 02'27'46	27°28'53
morning set	10919 Oct 24 05:50	2° \approx 03'15'42			10920 Sep 08 18:32	0° \approx	
					10920 Sep 29 02:14	0° \approx	
superior conj	10919 Oct 31 02:12	17° \approx 03'18'14	1°33'37	asc. node	10920 Oct 04 22:42	11° \approx 03'18'49	
minimum elong	10919 Oct 31 00:46	17° \approx 03'10'16	1°33'54	morning set	10920 Oct 07 13:31	16° \approx 03'44'11	
max. Earth dist.	10919 Oct 31 18:00	18° \approx 03'45'56	1.31647 AU		10920 Oct 13 15:43	0° \approx	
	10919 Nov 05 21:21	0° \approx		max. Earth dist.	10920 Oct 14 03:20	1° \approx 04'35	1.31408 AU
evening rise	10919 Nov 07 00:12	2° \approx 03'22'16					
desc. node	10919 Nov 21 16:03	29° \approx 03'39'33		superior conj	10920 Oct 14 13:58	2° \approx 03'47	1°22'33
	10919 Nov 21 21:10	0° \approx		minimum elong	10920 Oct 14 11:55	1° \approx 03'52'22	1°22'34
evening max el	10919 Dec 08 08:55	21° \approx 03'15'54	27°14'05	evening rise	10920 Oct 21 07:42	16° \approx 03'53'24	
retrograde	10919 Dec 22 06:21	28° \approx 03'28'58			10920 Oct 27 18:08	0° \approx	
evening set	10919 Dec 29 05:23	26° \approx 03'19'08		desc. node	10920 Nov 07 13:13	18° \approx 03'24'52	
min. Earth dist.	10920 Jan 01 23:25	23° \approx 03'33'55	0.60982 AU		10920 Nov 16 12:18	0° \approx	
inferior conj	10920 Jan 05 01:59	20° \approx 03'52'45	-3°10'46	evening max el	10920 Nov 19 08:56	2° \approx 03'54'47	26°22'49

retrograde	10920 Dec 03 07:18	10°  00'37		evening max el	10921 Nov 01 00:46	13°  42'25	25°01'39
evening set	10920 Dec 09 20:28	8°  16'10		retrograde	10921 Nov 14 21:00	20°  39'23	
min. Earth dist.	10920 Dec 13 22:21	5°  40'59	0.58856 AU	evening set	10921 Nov 20 12:35	19°  27'29	
inferior conj	10920 Dec 17 02:08	3°  18'20	-4°24'58	min. Earth dist.	10921 Nov 25 12:40	16°  44'55	0.56892 AU
minimum elong	10920 Dec 17 10:13	3°  03'04	4°22'07	inferior conj	10921 Nov 28 06:16	14°  57'23	-5°24'00
	10920 Dec 22 00:20	30°  R 		minimum elong	10921 Nov 28 12:39	14°  46'53	5°22'28
morning rise	10920 Dec 25 02:41	28°  47'00		morning rise	10921 Dec 06 14:59	10°  48'03	
direct	10920 Dec 27 05:57	28°  31'18		direct	10921 Dec 08 23:50	10°  32'00	
asc. node	10920 Dec 31 22:38	29°  51'48		morning max el	10921 Dec 18 07:23	15°  00'20	19°14'48
	10921 Jan 01 04:12	0°  3		asc. node	10921 Dec 18 19:43	15°  30'45	
morning max el	10921 Jan 04 07:09	2°  328'15	18°24'29		10921 Dec 28 19:51	0°  3	
morning set	10921 Jan 20 03:57	27°  348'50		morning set	10922 Jan 04 04:54	12°  314'12	
	10921 Jan 21 07:20	0°  ≈					
superior conj	10921 Jan 29 07:00	15°  ≈04'26	0°39'52	superior conj	10922 Jan 12 09:18	28°  326'54	1°06'09
minimum elong	10921 Jan 29 09:37	15°  ≈16'28	0°39'55	minimum elong	10922 Jan 12 12:20	28°  341'35	1°06'19
desc. node	10921 Feb 03 12:38	24°  ≈28'50			10922 Jan 13 04:35	0°  ≈	
max. Earth dist.	10921 Feb 05 19:15	28°  ≈25'49	1.40643 AU	max. Earth dist.	10922 Jan 19 01:19	10°  ≈57'22	1.38436 AU
	10921 Feb 06 17:17	0°  X		desc. node	10922 Jan 21 09:26	15°  ≈08'16	
evening rise	10921 Feb 10 05:06	5°  X51'12		evening rise	10922 Jan 22 19:38	17°  ≈38'02	
	10921 Feb 25 20:08	0°  Y			10922 Jan 30 05:23	0°  X	
evening max el	10921 Mar 16 15:06	23°  Y56'08	23°31'20		10922 Feb 20 05:38	0°  Y	
	10921 Mar 25 10:44	0°  8		evening max el	10922 Feb 27 04:42	7°  Y46'19	24°50'11
retrograde	10921 Mar 27 08:04	0°  815'15		retrograde	10922 Mar 10 23:04	14°  Y37'28	
	10921 Mar 29 03:26	30°  R  Y		evening set	10922 Mar 16 14:02	12°  Y16'50	
asc. node	10921 Mar 29 20:34	29°  Y45'08		asc. node	10922 Mar 16 17:52	12°  Y08'35	
evening set	10921 Apr 01 11:01	28°  Y06'33		min. Earth dist.	10922 Mar 21 02:15	7°  Y12'13	0.68043 AU
inferior conj	10921 Apr 06 20:55	21°  Y39'01	2°18'23	inferior conj	10922 Mar 22 04:02	5°  Y46'53	1°39'34
minimum elong	10921 Apr 06 18:44	21°  Y46'31	2°17'36	minimum elong	10922 Mar 22 02:03	5°  Y53'29	1°38'52
min. Earth dist.	10921 Apr 06 07:00	22°  Y26'48	0.68571 AU		10922 Mar 27 08:30	30°  R  X	
morning rise	10921 Apr 12 02:25	15°  Y33'55		morning rise	10922 Mar 27 14:16	29°  X49'27	
direct	10921 Apr 16 07:43	13°  Y54'02		direct	10922 Mar 31 07:06	28°  X30'45	
morning max el	10921 Apr 24 13:10	18°  Y36'11	20°47'29		10922 Apr 04 12:28	0°  Y	
desc. node	10921 May 02 13:43	28°  Y11'50		morning max el	10922 Apr 07 14:15	2°  Y33'55	19°38'57
	10921 May 03 21:43	0°  8		desc. node	10922 Apr 19 10:29	17°  Y49'21	
morning set	10921 May 24 09:33	0°  II20'23		greatest brilliancy	10922 Apr 20 07:36	19°  Y06'27	-0.6m
	10921 May 24 04:19	0°  II			10922 Apr 27 14:18	0°  8	
max. Earth dist.	10921 Jun 01 13:36	13°  II18'04	1.43212 AU	morning set	10922 May 03 08:43	8°  849'04	
				max. Earth dist.	10922 May 15 02:01	27°  805'35	1.44707 AU
superior conj	10921 Jun 08 09:13	24°  II32'40	-2°01'13		10922 May 16 21:57	0°  II	
minimum elong	10921 Jun 08 15:05	24°  II57'21	2°01'25	superior conj	10922 May 19 15:57	4°  II24'00	-2°12'57
	10921 Jun 11 14:24	0°  ☿		minimum elong	10922 May 19 17:00	4°  II28'12	2°13'29
evening rise	10921 Jun 20 09:49	15°  ☿24'02		evening rise	10922 Jun 02 10:07	27°  II05'14	
asc. node	10921 Jun 25 18:58	24°  ☿52'54			10922 Jun 04 03:35	0°  ☿	
	10921 Jun 28 19:22	0°  Ω		asc. node	10922 Jun 12 15:59	14°  ☿05'04	
evening max el	10921 Jul 07 03:01	11°  Ω28'14	18°04'15	evening max el	10922 Jun 20 16:58	24°  ☿51'52	18°11'26
retrograde	10921 Jul 13 16:58	14°  Ω51'08		retrograde	10922 Jun 27 01:35	28°  ☿13'00	
evening set	10921 Jul 16 06:08	14°  Ω20'28		evening set	10922 Jun 29 22:47	27°  ☿29'00	
inferior conj	10921 Jul 22 20:43	9°  Ω19'10	1°52'05	inferior conj	10922 Jul 06 00:07	22°  ☿09'32	2°39'06
minimum elong	10921 Jul 22 23:25	9°  Ω12'32	1°50'46	minimum elong	10922 Jul 06 02:36	22°  ☿02'41	2°37'58
min. Earth dist.	10921 Jul 25 23:44	6°  Ω16'06	0.61221 AU	min. Earth dist.	10922 Jul 08 15:03	19°  ☿16'07	0.63418 AU
morning rise	10921 Jul 29 14:05	3°  Ω19'41		morning rise	10922 Jul 12 04:49	15°  ☿55'49	
desc. node	10921 Jul 29 12:59	3°  Ω21'33		desc. node	10922 Jul 16 10:10	13°  ☿42'04	
direct	10921 Aug 05 05:30	1°  Ω04'52		direct	10922 Jul 18 21:39	13°  ☿21'34	
morning max el	10921 Aug 19 11:25	9°  Ω04'41	27°56'33	morning max el	10922 Aug 01 19:45	21°  ☿23'53	27°46'06
	10921 Sep 04 14:36	0°  ♍			10922 Aug 09 07:10	0°  Ω	
	10921 Sep 21 05:35	0°  ♊			10922 Aug 28 17:52	0°  ♍	
morning set	10921 Sep 21 16:20	0°  ♊55'19		morning set	10922 Sep 05 12:04	14°  ♍43'50	
asc. node	10921 Sep 21 19:28	1°  ♊11'30		asc. node	10922 Sep 08 16:13	21°  ♍12'50	
max. Earth dist.	10921 Sep 27 10:47	13°  ♊14'25	1.31672 AU	max. Earth dist.	10922 Sep 10 12:46	25°  ♍07'05	1.32450 AU
					10922 Sep 12 19:28	0°  ♊	
superior conj	10921 Sep 29 00:27	16°  ♊41'36	1°06'07	superior conj	10922 Sep 13 07:48	1°  ♊06'41	0°44'34
minimum elong	10921 Sep 28 22:12	16°  ♊29'14	1°05'53	minimum elong	10922 Sep 13 05:54	0°  ♊56'24	0°44'10
	10921 Oct 05 01:27	0°  ♋		evening rise	10922 Sep 20 05:32	16°  ♊06'46	
evening rise	10921 Oct 05 18:05	1° ♋29'47			10922 Sep 27 01:14	0° ♋	
	10921 Oct 21 00:50	0° ♊					
desc. node	10921 Oct 25 10:26	6° ♊13'41		desc. node	10922 Oct 12 07:41	22° ♋44'42	

evening max el	10922 Oct 13 11:30	23° \mathbb{M} 54'37	23°22'55	evening rise	10923 Sep 04 16:04	0° \mathbb{A} 38'08	
	10922 Oct 22 22:27	0° \mathbb{A}			10923 Sep 21 09:54	0° \mathbb{M}	
retrograde	10922 Oct 26 21:29	0° \mathbb{A} 35'45		evening max el	10923 Sep 25 01:19	4° \mathbb{M} 04'20	21°44'03
	10922 Oct 30 22:43	30° $\mathbb{R}\mathbb{M}$		desc. node	10923 Sep 29 04:58	7° \mathbb{M} 30'11	
evening set	10922 Oct 31 04:39	29° \mathbb{M} 55'38		retrograde	10923 Oct 07 11:26	10° \mathbb{M} 14'58	
min. Earth dist.	10922 Nov 06 21:20	26° \mathbb{M} 47'19	0.55396 AU	evening set	10923 Oct 10 08:38	9° \mathbb{M} 56'11	
inferior conj	10922 Nov 08 14:22	25° \mathbb{M} 47'18	-5°47'26	inferior conj	10923 Oct 19 08:32	5° \mathbb{M} 59'18	-5°16'11
minimum elong	10922 Nov 08 14:02	25° \mathbb{M} 47'47	5°46'57	minimum elong	10923 Oct 19 00:27	6° \mathbb{M} 10'36	5°14'26
morning rise	10922 Nov 17 01:10	21° \mathbb{M} 55'23		min. Earth dist.	10923 Oct 19 04:07	6° \mathbb{M} 05'29	0.54644 AU
direct	10922 Nov 19 22:50	21° \mathbb{M} 34'59		morning rise	10923 Oct 27 17:28	2° \mathbb{M} 11'32	
morning max el	10922 Nov 30 18:35	26° \mathbb{M} 42'30	20°28'02	direct	10923 Oct 31 08:33	1° \mathbb{M} 42'52	
	10922 Dec 03 20:00	0° \mathbb{A}		morning max el	10923 Nov 12 16:17	7° \mathbb{M} 33'51	22°02'16
asc. node	10922 Dec 05 16:42	2° \mathbb{A} 22'39		asc. node	10923 Nov 22 13:38	20° \mathbb{M} 11'43	
morning set	10922 Dec 19 11:43	26° \mathbb{A} 53'39			10923 Nov 28 03:15	0° \mathbb{A}	
	10922 Dec 20 23:51	0° \mathbb{B}		morning set	10923 Dec 03 21:57	11° \mathbb{A} 40'12	
superior conj	10922 Dec 27 00:23	12° \mathbb{B} 24'20	1°24'30	superior conj	10923 Dec 11 00:33	26° \mathbb{A} 46'13	1°35'25
minimum elong	10922 Dec 27 02:49	12° \mathbb{B} 36'38	1°24'52	minimum elong	10923 Dec 11 01:53	26° \mathbb{A} 53'19	1°35'56
max. Earth dist.	10923 Jan 01 08:58	23° \mathbb{B} 00'07	1.36300 AU		10923 Dec 12 13:32	0° \mathbb{B}	
evening rise	10923 Jan 05 05:26	0° \approx 14'06		max. Earth dist.	10923 Dec 14 22:31	4° \mathbb{B} 53'15	1.34435 AU
	10923 Jan 05 02:22	0° \approx		evening rise	10923 Dec 19 06:55	13° \mathbb{B} 30'12	
desc. node	10923 Jan 08 06:18	5° \approx 41'40		desc. node	10923 Dec 26 03:14	26° \mathbb{B} 04'37	
	10923 Jan 23 09:53	0° \mathbb{H}			10923 Dec 28 10:00	0° \approx	
evening max el	10923 Feb 09 18:14	21° \mathbb{H} 36'11	26°00'28		10924 Jan 18 08:05	0° \mathbb{H}	
retrograde	10923 Feb 22 09:09	28° \mathbb{H} 48'03		evening max el	10924 Jan 23 07:45	5° \mathbb{H} 17'57	26°54'54
evening set	10923 Feb 28 12:01	26° \mathbb{H} 18'35		retrograde	10924 Feb 05 13:34	12° \mathbb{H} 40'03	
asc. node	10923 Mar 03 15:08	23° \mathbb{H} 08'30		evening set	10924 Feb 12 03:07	10° \mathbb{H} 06'20	
min. Earth dist.	10923 Mar 04 17:38	21° \mathbb{H} 48'55	0.67109 AU	min. Earth dist.	10924 Feb 16 03:02	6° \mathbb{H} 10'49	0.65786 AU
inferior conj	10923 Mar 06 07:21	19° \mathbb{H} 51'17	0°51'19	inferior conj	10924 Feb 18 04:42	3° \mathbb{H} 47'37	-0°06'19
minimum elong	10923 Mar 06 06:06	19° \mathbb{H} 55'11	0°50'59	minimum elong	10924 Feb 18 04:52	3° \mathbb{H} 47'08	0°05'55
morning rise	10923 Mar 12 00:50	14° \mathbb{H} 03'25		transit middle	10924 Feb 18 04:52	3° \mathbb{H} 47'08	0°05'55
direct	10923 Mar 15 06:23	13° \mathbb{H} 03'54		transit begin	10924 Feb 18 02:06	3° \mathbb{H} 55'07	
morning max el	10923 Mar 21 22:51	16° \mathbb{H} 40'44	18°45'56	transit end	10924 Feb 18 07:37	3° \mathbb{H} 39'10	
	10923 Apr 01 03:49	0° \mathbb{Y}		asc. node	10924 Feb 18 12:23	3° \mathbb{H} 25'26	
desc. node	10923 Apr 06 07:13	7° \mathbb{Y} 50'15			10924 Feb 21 18:46	30° $\mathbb{R}\approx$	
morning set	10923 Apr 12 19:18	17° \mathbb{Y} 57'38		morning rise	10924 Feb 24 07:52	28° \approx 11'29	
	10923 Apr 20 12:22	0° \mathbb{B}		direct	10924 Feb 27 03:29	27° \approx 28'09	
max. Earth dist.	10923 Apr 27 19:49	11° \mathbb{B} 25'23	1.45542 AU		10924 Mar 03 15:05	0° \mathbb{H}	
superior conj	10923 Apr 29 03:19	13° \mathbb{B} 28'49	-2°05'35	morning max el	10924 Mar 04 13:13	0° \mathbb{H} 51'12	18°09'33
minimum elong	10923 Apr 28 20:57	13° \mathbb{B} 03'50	2°05'40	morning set	10924 Mar 23 08:59	28° \mathbb{H} 28'44	
	10923 May 09 14:15	0° \mathbb{I}		desc. node	10924 Mar 23 03:56	28° \mathbb{H} 08'18	
evening rise	10923 May 14 10:43	7° \mathbb{I} 46'14			10924 Mar 24 07:34	0° \mathbb{Y}	
greatest brilliancy	10923 May 20 22:29	18° \mathbb{I} 12'01	-0.9m	superior conj	10924 Apr 07 10:25	22° \mathbb{Y} 29'48	-1°38'43
	10923 May 28 13:23	0° \mathbb{E}		minimum elong	10924 Apr 07 00:57	21° \mathbb{Y} 52'36	1°37'57
asc. node	10923 May 30 13:02	2° \mathbb{E} 48'42		max. Earth dist.	10924 Apr 09 15:53	25° \mathbb{Y} 59'21	1.45634 AU
evening max el	10923 Jun 04 05:21	8° \mathbb{E} 26'55	18°36'39		10924 Apr 12 05:30	0° \mathbb{B}	
retrograde	10923 Jun 10 18:01	12° \mathbb{E} 00'04		evening rise	10924 Apr 23 12:49	17° \mathbb{B} 35'06	
evening set	10923 Jun 13 23:17	11° \mathbb{E} 01'15			10924 May 01 13:21	0° \mathbb{I}	
inferior conj	10923 Jun 19 15:17	5° \mathbb{E} 25'14	3°05'59	greatest brilliancy	10924 May 05 14:37	6° \mathbb{I} 10'23	-0.7m
minimum elong	10923 Jun 19 16:47	5° \mathbb{E} 20'40	3°05'11	asc. node	10924 May 16 10:10	20° \mathbb{I} 54'53	
min. Earth dist.	10923 Jun 21 15:29	2° \mathbb{E} 58'49	0.65331 AU	evening max el	10924 May 17 13:50	22° \mathbb{I} 07'59	19°18'55
	10923 Jun 24 09:08	30° $\mathbb{R}\mathbb{I}$		retrograde	10924 May 24 14:58	26° \mathbb{I} 05'46	
morning rise	10923 Jun 25 09:25	29° \mathbb{I} 05'05		evening set	10924 May 28 04:40	24° \mathbb{I} 51'23	
direct	10923 Jul 01 21:34	26° \mathbb{I} 22'09		inferior conj	10924 Jun 02 14:47	19° \mathbb{I} 00'27	3°16'40
desc. node	10923 Jul 03 07:18	26° \mathbb{I} 28'58		minimum elong	10924 Jun 02 15:07	18° \mathbb{I} 59'21	3°16'04
	10923 Jul 10 12:08	0° \mathbb{E}		min. Earth dist.	10924 Jun 04 00:01	17° \mathbb{I} 12'02	0.66849 AU
morning max el	10923 Jul 15 06:22	4° \mathbb{E} 15'23	27°02'25	morning rise	10924 Jun 08 01:07	12° \mathbb{I} 39'09	
	10923 Aug 03 18:51	0° \mathbb{Q}		direct	10924 Jun 14 04:13	9° \mathbb{I} 58'00	
morning set	10923 Aug 19 21:52	28° \mathbb{Q} 01'41		desc. node	10924 Jun 19 04:24	11° \mathbb{I} 24'47	
	10923 Aug 20 22:17	0° \mathbb{P}		morning max el	10924 Jun 26 17:06	17° \mathbb{I} 27'59	25°53'31
max. Earth dist.	10923 Aug 24 05:58	6° \mathbb{P} 36'10	1.33736 AU		10924 Jul 07 04:29	0° \mathbb{E}	
asc. node	10923 Aug 26 12:58	11° \mathbb{P} 18'00			10924 Jul 26 18:01	0° \mathbb{Q}	
superior conj	10923 Aug 28 09:48	15° \mathbb{P} 12'10	0°18'16	morning set	10924 Aug 01 18:10	10° \mathbb{Q} 40'06	
minimum elong	10923 Aug 28 08:53	15° \mathbb{P} 07'19	0°17'52	max. Earth dist.	10924 Aug 05 12:45	17° \mathbb{Q} 45'10	1.35495 AU
	10923 Sep 04 08:51	0° \mathbb{A}		superior conj	10924 Aug 11 03:54	28° \mathbb{Q} 51'39	-0°12'05



































































































































minimum elong	10924 Aug 11 04:38	28° Ω 55'22	0°12'18	superior conj	10925 Jul 25 10:52	11° Ω 57'17	-0°45'05
behind sun begin	10924 Aug 11 00:39	28° Ω 35'12		minimum elong	10925 Jul 25 13:51	12° Ω 11'42	0°45'02
behind sun end	10924 Aug 11 08:37	29° Ω 15'34		asc. node	10925 Jul 30 06:36	21° Ω 25'24	
	10924 Aug 11 17:22	0° Π		evening rise	10925 Aug 03 01:56	29° Ω 00'52	
asc. node	10924 Aug 12 09:45	1° Π 23'24			10925 Aug 03 13:50	0° Π	
evening rise	10924 Aug 18 23:41	14° Π 58'22		evening max el	10925 Aug 19 17:57	26° Π 15'56	19°14'45
	10924 Aug 26 16:26	0° $\underline{\Omega}$			10925 Aug 24 23:16	0° $\underline{\Omega}$	
evening max el	10924 Sep 06 02:39	14° $\underline{\Omega}$ 46'26	20°19'14	retrograde	10925 Aug 28 23:00	0° $\underline{\Omega}$ 50'53	
desc. node	10924 Sep 15 02:18	20° $\underline{\Omega}$ 01'19		evening set	10925 Aug 30 19:13	0° $\underline{\Omega}$ 40'39	
retrograde	10924 Sep 17 00:00	20° $\underline{\Omega}$ 10'56		desc. node	10925 Sep 01 23:38	0° $\underline{\Omega}$ 03'55	
evening set	10924 Sep 19 00:22	20° $\underline{\Omega}$ 00'38			10925 Sep 02 03:45	30° \mathbb{R} Π	
inferior conj	10924 Sep 28 02:00	16° $\underline{\Omega}$ 03'06	-3°51'09	inferior conj	10925 Sep 08 08:37	26° Π 30'42	-1°59'09
minimum elong	10924 Sep 27 16:26	16° $\underline{\Omega}$ 17'09	3°48'01	minimum elong	10925 Sep 08 03:22	26° Π 39'26	1°57'12
min. Earth dist.	10924 Sep 29 12:43	15° $\underline{\Omega}$ 12'04	0.54820 AU	min. Earth dist.	10925 Sep 11 01:10	24° Π 43'41	0.55913 AU
morning rise	10924 Oct 06 07:46	11° $\underline{\Omega}$ 58'04		morning rise	10925 Sep 16 08:42	21° Π 52'10	
direct	10924 Oct 10 17:46	11° $\underline{\Omega}$ 16'00		direct	10925 Sep 21 14:25	20° Π 49'07	
morning max el	10924 Oct 24 05:09	17° $\underline{\Omega}$ 49'42	23°48'52	morning max el	10925 Oct 05 16:50	27° Π 58'25	25°32'24
	10924 Nov 03 02:59	0° \mathbb{L}			10925 Oct 07 17:08	0° $\underline{\Omega}$	
asc. node	10924 Nov 08 10:31	8° \mathbb{L} 44'33		asc. node	10925 Oct 26 07:23	27° $\underline{\Omega}$ 50'09	
morning set	10924 Nov 17 09:40	26° \mathbb{L} 28'00			10925 Oct 27 10:15	0° \mathbb{L}	
	10924 Nov 19 01:09	0° \mathbb{A}		morning set	10925 Nov 01 21:09	11° \mathbb{L} 12'19	
superior conj	10924 Nov 24 06:48	11° \mathbb{A} 23'36	1°39'33	superior conj	10925 Nov 08 16:47	26° \mathbb{L} 09'29	1°37'28
minimum elong	10924 Nov 24 06:57	11° \mathbb{A} 24'28	1°40'06	minimum elong	10925 Nov 08 15:52	26° \mathbb{L} 04'24	1°37'53
max. Earth dist.	10924 Nov 26 19:48	16° \mathbb{A} 51'45	1.32979 AU	max. Earth dist.	10925 Nov 10 00:09	29° \mathbb{L} 02'21	1.31993 AU
evening rise	10924 Dec 01 20:31	27° \mathbb{A} 17'13			10925 Nov 10 10:40	0° \mathbb{A}	
	10924 Dec 03 05:15	0° \mathbb{Z}		evening rise	10925 Nov 15 19:08	11° \mathbb{A} 27'25	
desc. node	10924 Dec 12 00:14	16° \mathbb{Z} 11'08			10925 Nov 25 10:28	0° \mathbb{Z}	
	10924 Dec 20 16:37	0° \approx		desc. node	10925 Nov 28 21:19	5° \mathbb{Z} 54'19	
evening max el	10925 Jan 04 20:17	18° \approx 40'26	27°26'17		10925 Dec 16 16:37	0° \approx	
retrograde	10925 Jan 18 11:46	26° \approx 03'52		evening max el	10925 Dec 18 06:10	1° \approx 32'17	27°28'13
evening set	10925 Jan 25 09:00	23° \approx 32'39		retrograde	10926 Jan 01 02:41	8° \approx 50'15	
min. Earth dist.	10925 Jan 29 04:23	20° \approx 08'51	0.64117 AU	evening set	10926 Jan 08 02:49	6° \approx 30'07	
inferior conj	10925 Jan 31 17:30	17° \approx 28'57	-1°12'54	min. Earth dist.	10926 Jan 11 20:07	3° \approx 32'58	0.62176 AU
minimum elong	10925 Jan 31 19:47	17° \approx 22'57	1°11'29	inferior conj	10926 Jan 14 18:47	0° \approx 48'12	-2°26'37
asc. node	10925 Feb 04 09:38	13° \approx 57'29		minimum elong	10926 Jan 14 23:42	0° \approx 36'40	2°24'09
morning rise	10925 Feb 07 08:31	12° \approx 07'08			10926 Jan 15 15:33	30° \mathbb{R} \mathbb{Z}	
direct	10925 Feb 09 19:56	11° \approx 36'18		morning rise	10926 Jan 21 23:06	25° \mathbb{Z} 43'27	
morning max el	10925 Feb 16 06:34	14° \approx 56'39	17°50'09	asc. node	10926 Jan 22 06:50	25° \mathbb{Z} 37'34	
	10925 Feb 26 23:03	0° \mathbb{H}		direct	10926 Jan 24 04:35	25° \mathbb{Z} 21'17	
morning set	10925 Mar 05 02:54	10° \mathbb{H} 21'45		morning max el	10926 Jan 30 23:44	28° \mathbb{Z} 48'43	17°48'22
desc. node	10925 Mar 10 00:39	18° \mathbb{H} 37'48			10926 Feb 01 02:53	0° \approx	
	10925 Mar 16 22:08	0° \mathbb{Y}		morning set	10926 Feb 15 19:28	23° \approx 19'12	
					10926 Feb 19 13:53	0° \mathbb{H}	
superior conj	10925 Mar 18 07:08	2° \mathbb{Y} 13'36	-0°59'19	desc. node	10926 Feb 24 21:23	9° \mathbb{H} 14'45	
minimum elong	10925 Mar 18 00:44	1° \mathbb{Y} 47'46	0°58'25				
max. Earth dist.	10925 Mar 23 10:59	10° \mathbb{Y} 28'13	1.44986 AU	superior conj	10926 Feb 27 03:29	13° \mathbb{H} 05'00	-0°17'04
evening rise	10925 Apr 03 01:21	26° \mathbb{Y} 57'20		minimum elong	10926 Feb 27 01:51	12° \mathbb{H} 58'06	0°16'36
	10925 Apr 05 01:08	0° \mathbb{B}		max. Earth dist.	10926 Mar 06 03:06	24° \mathbb{H} 37'35	1.43679 AU
	10925 Apr 25 16:20	0° \mathbb{I}			10926 Mar 09 11:37	0° \mathbb{Y}	
evening max el	10925 Apr 30 16:59	5° \mathbb{I} 51'13	20°16'39	evening rise	10926 Mar 13 15:39	6° \mathbb{Y} 32'24	
asc. node	10925 May 03 07:22	8° \mathbb{I} 11'20			10926 Mar 29 08:17	0° \mathbb{B}	
retrograde	10925 May 08 13:41	10° \mathbb{I} 23'50		evening max el	10926 Apr 13 14:35	19° \mathbb{B} 35'38	21°26'52
evening set	10925 May 12 12:35	8° \mathbb{I} 53'41		asc. node	10926 Apr 20 04:37	24° \mathbb{B} 23'25	
inferior conj	10925 May 17 19:46	2° \mathbb{I} 49'35	3°14'07	retrograde	10926 Apr 22 12:04	24° \mathbb{B} 49'21	
minimum elong	10925 May 17 19:01	2° \mathbb{I} 52'06	3°13'34	evening set	10926 Apr 26 21:11	23° \mathbb{B} 03'33	
min. Earth dist.	10925 May 18 14:47	1° \mathbb{I} 44'39	0.67919 AU	inferior conj	10926 May 02 03:52	16° \mathbb{B} 48'19	3°00'21
	10925 May 19 22:14	30° \mathbb{R} \mathbb{B}		minimum elong	10926 May 02 02:18	16° \mathbb{B} 53'47	2°59'42
morning rise	10925 May 23 01:11	26° \mathbb{B} 30'33		min. Earth dist.	10926 May 02 09:33	16° \mathbb{B} 28'29	0.68529 AU
direct	10925 May 28 16:37	24° \mathbb{B} 00'02		morning rise	10926 May 07 07:12	10° \mathbb{B} 33'41	
desc. node	10925 Jun 06 01:24	27° \mathbb{B} 59'57		direct	10926 May 12 09:35	8° \mathbb{B} 20'18	
	10925 Jun 08 06:11	0° \mathbb{I}		morning max el	10926 May 22 13:02	14° \mathbb{B} 21'22	22°59'18
morning max el	10925 Jun 09 02:53	0° \mathbb{I} 51'19	24°29'09	desc. node	10926 May 23 22:21	15° \mathbb{B} 48'15	
	10925 Jul 01 02:53	0° \mathbb{B}			10926 Jun 04 05:24	0° \mathbb{I}	
morning set	10925 Jul 14 20:26	22° \mathbb{B} 27'24			10926 Jun 24 01:18	0° \mathbb{B}	
max. Earth dist.	10925 Jul 18 11:19	28° \mathbb{B} 53'26	1.37623 AU	morning set	10926 Jun 25 23:26	3° \mathbb{B} 09'46	
	10925 Jul 19 01:59	0° Ω		max. Earth dist.	10926 Jun 30 08:17	10° \mathbb{B} 32'11	1.39926 AU

superior conj	10926 Jul 08 02:42	24°☿19'10	-1°18'22	max. Earth dist.	10927 Jun 12 10:22	23°♄04'29	1.42115 AU
minimum elong	10926 Jul 08 08:02	24°☿43'37	1°18'09		10927 Jun 16 13:48	0°☿	
	10926 Jul 11 04:19	0°♌					
asc. node	10926 Jul 17 03:29	11°♌19'31		superior conj	10927 Jun 19 22:52	5°☿47'20	-1°47'59
evening rise	10926 Jul 17 19:42	12°♌37'03		minimum elong	10927 Jun 20 05:25	6°☿15'42	1°47'56
	10926 Jul 27 10:22	0°♍		evening rise	10927 Jul 01 01:08	25°☿37'46	
evening max el	10926 Aug 02 20:36	8°♍29'02	18°31'26		10927 Jul 03 10:46	0°♌	
retrograde	10926 Aug 10 16:11	12°♍24'07		asc. node	10927 Jul 04 00:25	1°♌01'49	
evening set	10926 Aug 12 17:20	12°♍08'49		evening max el	10927 Jul 17 06:33	21°♌16'56	18°08'30
desc. node	10926 Aug 19 20:57	8°♍08'08		retrograde	10927 Jul 24 04:03	24°♌47'18	
inferior conj	10926 Aug 20 11:55	7°♍39'13	-0°11'31	evening set	10927 Jul 26 12:43	24°♌23'04	
minimum elong	10926 Aug 20 11:28	7°♍40'05	0°11'38	inferior conj	10927 Aug 02 12:36	19°♌32'35	1°14'15
transit middle	10926 Aug 20 11:28	7°♍40'05	0°11'38	minimum elong	10927 Aug 02 14:47	19°♌27'38	1°13'04
transit begin	10926 Aug 20 08:58	7°♍44'56		min. Earth dist.	10927 Aug 05 19:44	16°♌34'24	0.59915 AU
transit end	10926 Aug 20 13:57	7°♍35'14		desc. node	10927 Aug 06 18:13	15°♌47'19	
min. Earth dist.	10926 Aug 23 18:47	5°♍06'53	0.57719 AU	morning rise	10927 Aug 09 13:49	13°♌46'11	
morning rise	10926 Aug 28 02:05	2°♍23'40		direct	10927 Aug 16 01:13	11°♌46'48	
direct	10926 Sep 03 01:26	0°♍53'12		morning max el	10927 Aug 30 09:10	19°♌39'10	27°45'22
morning max el	10926 Sep 17 09:20	8°♍28'09	26°55'35		10927 Sep 08 04:58	0°♍	
	10926 Oct 03 15:58	0°♎			10927 Sep 26 11:48	0°♎	
asc. node	10926 Oct 13 04:12	17°♎19'08		asc. node	10927 Sep 30 01:00	7°♎04'53	
morning set	10926 Oct 17 06:42	25°♎47'32		morning set	10927 Oct 01 12:33	10°♎09'07	
	10926 Oct 19 05:37	0°♏		max. Earth dist.	10927 Oct 07 17:52	23°♎37'13	1.31470 AU
superior conj	10926 Oct 24 04:24	10°♏56'28	1°29'35	superior conj	10927 Oct 08 15:50	25°♎39'09	1°16'12
minimum elong	10926 Oct 24 02:40	10°♏46'46	1°29'46	minimum elong	10927 Oct 08 13:38	25°♎26'58	1°16'07
max. Earth dist.	10926 Oct 24 08:42	11°♏20'24	1.31488 AU		10927 Oct 10 14:45	0°♏	
evening rise	10926 Oct 31 00:03	25°♏52'38		evening rise	10927 Oct 15 09:02	10°♏26'43	
	10926 Nov 01 23:19	0°♐			10927 Oct 25 06:10	0°♐	
desc. node	10926 Nov 15 18:28	25°♐03'59		desc. node	10927 Nov 02 15:39	13°♐27'13	
	10926 Nov 19 01:29	0°♑		evening max el	10927 Nov 12 07:16	24°♐56'53	25°51'17
evening max el	10926 Nov 30 10:41	13°♑40'35	26°56'28		10927 Nov 19 00:57	0°♑	
retrograde	10926 Dec 14 08:53	20°♑50'05		retrograde	10927 Nov 26 04:47	1°♑58'24	
evening set	10926 Dec 21 04:50	18°♑50'23		evening set	10927 Dec 02 10:31	0°♑27'16	
min. Earth dist.	10926 Dec 25 01:08	16°♑10'55	0.60072 AU		10927 Dec 03 08:18	30°♒♐	
inferior conj	10926 Dec 28 05:05	13°♑35'53	-3°43'06	min. Earth dist.	10927 Dec 06 19:49	27°♐51'24	0.57989 AU
minimum elong	10926 Dec 28 12:27	13°♑20'47	3°40'05	inferior conj	10927 Dec 09 20:54	25°♐42'05	-4°52'58
morning rise	10927 Jan 04 22:46	8°♑51'21		minimum elong	10927 Dec 10 04:50	25°♐28'00	4°50'33
direct	10927 Jan 07 01:38	8°♑34'11		morning rise	10927 Dec 18 01:35	21°♐20'12	
asc. node	10927 Jan 09 03:59	8°♑51'44		direct	10927 Dec 20 06:37	21°♐04'40	
morning max el	10927 Jan 14 13:17	12°♑17'45	18°05'28	asc. node	10927 Dec 27 01:06	23°♐41'07	
	10927 Jan 26 09:01	0°♒		morning max el	10927 Dec 28 19:28	25°♐13'32	18°43'11
morning set	10927 Jan 30 04:23	7°♒02'08			10928 Jan 01 20:46	0°♑	
				morning set	10928 Jan 14 00:35	21°♑15'13	
superior conj	10927 Feb 09 00:07	25°♒04'34	0°21'06		10928 Jan 18 12:21	0°♒	
minimum elong	10927 Feb 09 01:46	25°♒11'56	0°21'14				
desc. node	10927 Feb 11 18:07	29°♒55'28		superior conj	10928 Jan 22 17:00	8°♒00'49	0°52'01
	10927 Feb 11 19:10	0°♓		minimum elong	10928 Jan 22 19:58	8°♒14'44	0°52'06
max. Earth dist.	10927 Feb 16 15:06	8°♓15'10	1.41851 AU	desc. node	10928 Jan 29 14:52	20°♒36'12	
evening rise	10927 Feb 21 20:58	16°♓51'19		max. Earth dist.	10928 Jan 29 22:56	21°♒11'39	1.39708 AU
	10927 Mar 02 07:20	0°♔		evening rise	10928 Feb 02 23:10	28°♒05'35	
	10927 Mar 24 04:39	0°♕			10928 Feb 04 02:28	0°♓	
evening max el	10927 Mar 27 07:38	3°♕22'00	22°45'04		10928 Feb 23 19:54	0°♔	
retrograde	10927 Apr 06 08:32	9°♕17'54		evening max el	10928 Mar 08 21:49	17°♔10'18	24°05'31
asc. node	10927 Apr 07 01:52	9°♕15'23		retrograde	10928 Mar 20 01:47	23°♔43'55	
evening set	10927 Apr 11 04:49	7°♕17'06		asc. node	10928 Mar 23 23:08	22°♔33'45	
inferior conj	10927 Apr 16 13:03	0°♕53'19	2°36'30	evening set	10928 Mar 25 09:58	21°♔29'35	
minimum elong	10927 Apr 16 10:59	1°♕00'30	2°35'44	min. Earth dist.	10928 Mar 30 02:23	16°♔05'08	0.68395 AU
min. Earth dist.	10927 Apr 16 06:09	1°♕17'16	0.68682 AU	inferior conj	10928 Mar 30 21:26	15°♔00'36	2°03'04
	10927 Apr 17 04:27	30°♕♔		minimum elong	10928 Mar 30 19:16	15°♔07'57	2°02'18
morning rise	10927 Apr 21 17:01	24°♔44'33		morning rise	10928 Apr 05 04:39	8°♔58'53	
direct	10927 Apr 26 06:00	22°♔51'59		direct	10928 Apr 09 04:34	7°♔28'12	
morning max el	10927 May 05 02:55	28°♔00'48	21°33'00	morning max el	10928 Apr 16 23:35	11°♔51'57	20°16'42
	10927 May 07 00:10	0°♕		desc. node	10928 Apr 26 15:59	23°♔49'41	
desc. node	10927 May 10 19:12	4°♕29'51			10928 Apr 30 23:54	0°♕	
	10927 May 28 19:44	0°♖		morning set	10928 May 15 03:34	21°♕17'45	
morning set	10927 Jun 06 00:07	12°♖41'01			10928 May 20 17:35	0°♖	

max. Earth dist.	10928 May 24 19:24	6° Π 28'18	1.43920 AU	morning set	10929 Apr 24 04:40	29° Υ 54'54	
					10929 Apr 24 05:59	0° \mathcal{B}	
superior conj	10928 May 30 19:21	16° Π 12'43	-2°08'13	max. Earth dist.	10929 May 07 10:03	20° \mathcal{B} 29'58	1.45145 AU
minimum elong	10928 May 30 23:46	16° Π 30'53	2°08'36				
	10928 Jun 08 00:16	0° \mathcal{E}		superior conj	10929 May 10 16:33	25° \mathcal{B} 39'57	-2°12'22
evening rise	10928 Jun 12 13:27	7° \mathcal{E} 50'51		minimum elong	10929 May 10 14:24	25° \mathcal{B} 31'26	2°12'49
asc. node	10928 Jun 19 21:23	20° \mathcal{E} 26'32			10929 May 13 09:54	0° Π	
	10928 Jun 26 01:36	0° Ω		evening rise	10929 May 25 03:55	19° Π 06'13	
evening max el	10928 Jun 29 19:56	4° Ω 29'20	18°04'58		10929 May 31 18:38	0° \mathcal{E}	
retrograde	10928 Jul 06 06:29	7° Ω 50'02		asc. node	10929 Jun 06 18:24	9° \mathcal{E} 27'20	
evening set	10928 Jul 08 23:01	7° Ω 13'58		evening max el	10929 Jun 13 09:28	17° \mathcal{E} 57'56	18°20'01
inferior conj	10928 Jul 15 07:28	2° Ω 04'25	2°14'43	retrograde	10929 Jun 19 18:56	21° \mathcal{E} 22'54	
minimum elong	10928 Jul 15 10:12	1° Ω 57'19	2°13'26	evening set	10929 Jun 22 19:24	20° \mathcal{E} 32'55	
	10928 Jul 17 07:14	30° $\mathcal{R}\mathcal{E}$		inferior conj	10929 Jun 28 16:20	15° \mathcal{E} 06'16	2°52'41
min. Earth dist.	10928 Jul 18 05:44	29° \mathcal{E} 03'06	0.62178 AU	minimum elong	10929 Jun 28 18:26	15° \mathcal{E} 00'10	2°51'42
morning rise	10928 Jul 21 19:14	25° \mathcal{E} 57'30		min. Earth dist.	10929 Jul 01 01:12	12° \mathcal{E} 22'19	0.64269 AU
desc. node	10928 Jul 23 15:27	24° \mathcal{E} 48'51		morning rise	10929 Jul 04 16:11	8° \mathcal{E} 48'42	
direct	10928 Jul 28 11:51	23° \mathcal{E} 33'34		desc. node	10929 Jul 10 12:37	6° \mathcal{E} 11'22	
	10928 Aug 09 23:28	0° Ω		direct	10929 Jul 11 07:36	6° \mathcal{E} 09'14	
morning max el	10928 Aug 11 15:21	1° Ω 35'42	27°56'37	morning max el	10929 Jul 25 01:07	14° \mathcal{E} 10'18	27°31'10
	10928 Sep 01 11:35	0° \mathcal{M}			10929 Aug 06 20:51	0° Ω	
morning set	10928 Sep 14 12:42	24° \mathcal{M} 11'44			10929 Aug 25 03:00	0° \mathcal{M}	
asc. node	10928 Sep 15 21:45	27° \mathcal{M} 01'53		morning set	10929 Aug 29 04:38	7° \mathcal{M} 48'25	
	10928 Sep 17 07:46	0° $\underline{\mathcal{A}}$		asc. node	10929 Sep 02 18:30	17° \mathcal{M} 05'16	
max. Earth dist.	10928 Sep 19 23:41	5° $\underline{\mathcal{A}}$ 42'01	1.31945 AU	max. Earth dist.	10929 Sep 02 22:12	17° \mathcal{M} 24'29	1.32930 AU
superior conj	10928 Sep 22 01:14	10° $\underline{\mathcal{A}}$ 12'14	0°57'35	superior conj	10929 Sep 06 06:37	24° \mathcal{M} 29'41	0°33'58
minimum elong	10928 Sep 21 23:04	10° $\underline{\mathcal{A}}$ 00'21	0°57'16	minimum elong	10929 Sep 06 05:03	24° \mathcal{M} 21'18	0°33'33
evening rise	10928 Sep 28 20:07	25° $\underline{\mathcal{A}}$ 04'08			10929 Sep 08 19:56	0° $\underline{\mathcal{A}}$	
	10928 Oct 01 03:57	0° \mathcal{M}		evening rise	10929 Sep 13 07:25	9° $\underline{\mathcal{A}}$ 39'10	
	10928 Oct 18 21:46	0° \mathcal{A}			10929 Sep 23 18:08	0° \mathcal{M}	
desc. node	10928 Oct 19 12:53	0° \mathcal{A} 46'13		evening max el	10929 Oct 05 06:51	15° \mathcal{M} 32'21	22°39'55
evening max el	10928 Oct 23 20:03	5° \mathcal{A} 25'56	24°20'39	desc. node	10929 Oct 06 10:11	16° \mathcal{M} 36'18	
retrograde	10928 Nov 06 13:07	12° \mathcal{A} 18'00		retrograde	10929 Oct 18 09:04	22° \mathcal{M} 03'19	
evening set	10928 Nov 11 16:09	11° \mathcal{A} 19'59		evening set	10929 Oct 22 00:43	21° \mathcal{M} 34'06	
min. Earth dist.	10928 Nov 17 07:02	8° \mathcal{A} 28'48	0.56182 AU	min. Earth dist.	10929 Oct 29 14:49	18° \mathcal{M} 09'22	0.54966 AU
inferior conj	10928 Nov 19 16:15	7° \mathcal{A} 00'02	-5°39'38	inferior conj	10929 Oct 30 17:18	17° \mathcal{M} 31'41	-5°41'29
minimum elong	10928 Nov 19 20:21	6° \mathcal{A} 53'39	5°38'44	minimum elong	10929 Oct 30 13:19	17° \mathcal{M} 37'22	5°40'46
morning rise	10928 Nov 28 02:39	2° \mathcal{A} 59'34		morning rise	10929 Nov 08 03:33	13° \mathcal{M} 43'37	
direct	10928 Nov 30 16:07	2° \mathcal{A} 42'14		direct	10929 Nov 11 07:57	13° \mathcal{M} 20'23	
morning max el	10928 Dec 10 14:34	7° \mathcal{A} 25'57	19°43'14	morning max el	10929 Nov 22 19:59	18° \mathcal{M} 46'39	21°05'51
asc. node	10928 Dec 12 22:07	9° \mathcal{A} 53'26		asc. node	10929 Nov 29 19:05	27° \mathcal{M} 11'32	
	10928 Dec 25 06:37	0° \mathcal{B}			10929 Dec 01 15:10	0° \mathcal{A}	
morning set	10928 Dec 28 04:23	5° \mathcal{B} 47'55		morning set	10929 Dec 12 12:56	20° \mathcal{A} 30'59	
					10929 Dec 17 01:34	0° \mathcal{B}	
superior conj	10929 Jan 05 01:20	21° \mathcal{B} 40'20	1°14'53				
minimum elong	10929 Jan 05 04:11	21° \mathcal{B} 54'29	1°15'07	superior conj	10929 Dec 19 20:43	5° \mathcal{B} 49'32	1°29'59
	10929 Jan 09 08:29	0° \approx		minimum elong	10929 Dec 19 22:44	5° \mathcal{B} 59'52	1°30'26
max. Earth dist.	10929 Jan 11 05:03	3° \approx 29'01	1.37499 AU	max. Earth dist.	10929 Dec 24 14:23	15° \mathcal{B} 23'23	1.35462 AU
evening rise	10929 Jan 14 22:20	10° \approx 14'34		evening rise	10929 Dec 28 15:19	23° \mathcal{B} 09'04	
desc. node	10929 Jan 15 11:42	11° \approx 13'46			10930 Jan 01 09:17	0° \approx	
	10929 Jan 26 19:48	0° \mathcal{H}		desc. node	10930 Jan 02 08:36	1° \approx 43'14	
	10929 Feb 18 11:04	0° Υ			10930 Jan 20 12:37	0° \mathcal{H}	
evening max el	10929 Feb 19 11:04	1° Υ 00'11	25°21'31	evening max el	10930 Feb 02 00:32	14° \mathcal{H} 47'09	26°25'58
retrograde	10929 Mar 03 14:53	8° Υ 02'10		retrograde	10930 Feb 14 22:51	22° \mathcal{H} 05'21	
evening set	10929 Mar 09 11:03	5° Υ 36'59		evening set	10930 Feb 21 06:22	19° \mathcal{H} 33'27	
asc. node	10929 Mar 10 20:24	4° Υ 18'42		min. Earth dist.	10930 Feb 25 09:25	15° \mathcal{H} 18'16	0.66588 AU
min. Earth dist.	10929 Mar 13 20:13	0° Υ 47'27	0.67692 AU	asc. node	10930 Feb 25 17:40	14° \mathcal{H} 53'36	
	10929 Mar 14 10:55	30° $\mathcal{R}\mathcal{H}$		inferior conj	10930 Feb 27 04:14	13° \mathcal{H} 08'42	0°28'00
inferior conj	10929 Mar 15 03:10	29° \mathcal{H} 07'18	1°20'15	minimum elong	10930 Feb 27 03:30	13° \mathcal{H} 10'55	0°27'56
minimum elong	10929 Mar 15 01:25	29° \mathcal{H} 12'59	1°19'40	morning rise	10930 Mar 05 01:33	7° \mathcal{H} 25'25	
morning rise	10929 Mar 20 16:12	23° \mathcal{H} 13'53		direct	10930 Mar 08 02:35	6° \mathcal{H} 33'19	
direct	10929 Mar 24 04:00	22° \mathcal{H} 03'52		morning max el	10930 Mar 14 15:24	10° \mathcal{H} 03'13	18°28'20
morning max el	10929 Mar 31 04:04	25° \mathcal{H} 54'26	19°14'27		10930 Mar 28 23:58	0° Υ	
	10929 Apr 03 19:32	0° Υ		desc. node	10930 Mar 31 09:27	3° Υ 46'18	
greatest brilliancy	10929 Apr 13 01:51	12° Υ 57'10	-0.7m	morning set	10930 Apr 04 01:43	9° Υ 35'17	
desc. node	10929 Apr 13 12:43	13° Υ 37'46			10930 Apr 17 01:01	0° \mathcal{B}	

superior conj	10930 Apr 19 23:51	4°♄36'57	-1°56'19	morning max el	10931 Feb 26 07:19	24°♁11'47	17°59'05
minimum elong	10930 Apr 19 15:17	4°♄03'31	1°56'00		10931 Mar 03 02:17	0°♁	
max. Earth dist.	10930 Apr 20 04:31	4°♄55'13	1.45669 AU	morning set	10931 Mar 16 03:54	20°♁42'40	
evening rise	10930 May 05 18:18	29°♄22'10		desc. node	10931 Mar 18 06:10	24°♁09'27	
	10930 May 06 03:52	0°♄			10931 Mar 21 19:54	0°♁	
greatest brilliancy	10930 May 15 00:17	13°♄56'46	-0.8m				
asc. node	10930 May 24 15:30	27°♄56'17		superior conj	10931 Mar 30 10:45	13°♁50'25	-1°22'54
	10930 May 26 08:36	0°♄		minimum elong	10931 Mar 30 02:02	13°♁15'55	1°21'59
evening max el	10930 May 27 20:28	1°♄36'09	18°52'44	max. Earth dist.	10931 Apr 03 00:37	19°♁29'02	1.45449 AU
retrograde	10930 Jun 03 13:32	5°♄18'18			10931 Apr 09 18:27	0°♄	
evening set	10930 Jun 06 22:17	4°♄13'02		evening rise	10931 Apr 15 12:57	8°♄54'47	
	10930 Jun 11 06:38	30°♄			10931 Apr 29 10:22	0°♄	
inferior conj	10930 Jun 12 11:25	28°♄30'49	3°12'16	greatest brilliancy	10931 Apr 29 10:41	0°♄01'07	-0.7m
minimum elong	10930 Jun 12 12:25	28°♄27'37	3°11'35	evening max el	10931 May 11 02:52	15°♄18'22	19°41'51
min. Earth dist.	10930 Jun 14 05:20	26°♄19'13	0.66026 AU	asc. node	10931 May 11 12:40	15°♄42'38	
morning rise	10930 Jun 18 01:52	22°♄09'39		retrograde	10931 May 18 11:23	19°♄29'25	
direct	10930 Jun 24 10:44	19°♄25'54		evening set	10931 May 22 04:59	18°♄08'14	
desc. node	10930 Jun 27 09:45	19°♄56'14		inferior conj	10931 May 27 13:31	12°♄11'41	3°17'04
morning max el	10930 Jul 07 11:49	27°♄11'28	26°35'39	minimum elong	10931 May 27 13:23	12°♄12'08	3°16'30
	10930 Jul 10 02:56	0°♄		min. Earth dist.	10931 May 28 16:37	10°♄41'23	0.67362 AU
	10930 Jul 31 12:43	0°♄		morning rise	10931 Jun 01 21:26	5°♄51'18	
morning set	10930 Aug 12 09:14	20°♄51'05		direct	10931 Jun 07 19:57	3°♄13'39	
max. Earth dist.	10930 Aug 16 10:42	28°♄42'35	1.34423 AU	desc. node	10931 Jun 14 06:48	5°♄37'21	
	10930 Aug 17 02:17	0°♄		morning max el	10931 Jun 19 21:54	10°♄28'13	25°18'57
asc. node	10930 Aug 20 15:17	7°♄11'13			10931 Jul 05 09:57	0°♄	
					10931 Jul 24 04:07	0°♄	
superior conj	10930 Aug 21 05:40	8°♄25'30	0°05'52	morning set	10931 Jul 25 22:23	3°♄08'18	
minimum elong	10930 Aug 21 05:21	8°♄23'55	0°05'32	max. Earth dist.	10931 Jul 29 13:22	9°♄47'14	1.36366 AU
behind sun begin	10930 Aug 20 23:51	7°♄55'25					
behind sun end	10930 Aug 21 10:52	8°♄52'28		superior conj	10931 Aug 04 19:26	21°♄51'12	-0°25'51
evening rise	10930 Aug 28 17:01	24°♄06'39		minimum elong	10931 Aug 04 21:04	21°♄59'18	0°25'57
	10930 Aug 31 13:37	0°♄		asc. node	10931 Aug 07 12:05	27°♄15'16	
evening max el	10930 Sep 17 01:04	25°♄53'43	21°05'51		10931 Aug 08 20:34	0°♄	
	10930 Sep 22 09:01	0°♄		evening rise	10931 Aug 12 22:38	8°♄19'41	
desc. node	10930 Sep 23 07:30	0°♄28'29			10931 Aug 24 19:17	0°♄	
retrograde	10930 Sep 28 20:39	1°♄45'29		evening max el	10931 Aug 30 08:25	6°♄54'50	19°49'12
evening set	10930 Oct 01 06:47	1°♄31'44		retrograde	10931 Sep 09 11:57	11°♄57'26	
	10930 Oct 05 20:46	30°♄		desc. node	10931 Sep 10 04:51	11°♄56'04	
inferior conj	10930 Oct 10 09:26	27°♄36'38	-4°45'37	evening set	10931 Sep 11 09:11	11°♄47'46	
minimum elong	10930 Oct 09 23:45	27°♄50'17	4°43'02	inferior conj	10931 Sep 20 06:56	7°♄46'06	-3°04'55
min. Earth dist.	10930 Oct 10 22:19	27°♄18'26	0.54605 AU	minimum elong	10931 Sep 19 22:48	7°♄58'35	3°01'59
morning rise	10930 Oct 18 17:06	23°♄43'50		min. Earth dist.	10931 Sep 22 07:57	6°♄30'54	0.55186 AU
direct	10930 Oct 22 16:18	23°♄10'00		morning rise	10931 Sep 28 10:49	3°♄28'35	
morning max el	10930 Nov 04 13:03	29°♄20'04	22°46'40	direct	10931 Oct 03 05:28	2°♄38'32	
	10930 Nov 05 05:41	0°♄		morning max el	10931 Oct 17 00:14	9°♄27'37	24°34'19
asc. node	10930 Nov 16 16:01	15°♄20'46			10931 Nov 01 05:18	0°♄	
	10930 Nov 24 10:58	0°♄		asc. node	10931 Nov 03 12:54	4°♄08'26	
morning set	10930 Nov 27 00:02	5°♄18'28		morning set	10931 Nov 11 11:53	20°♄05'14	
					10931 Nov 16 01:13	0°♄	
superior conj	10930 Dec 03 23:49	20°♄18'45	1°37'56				
minimum elong	10930 Dec 04 00:40	20°♄23'15	1°38'30	superior conj	10931 Nov 18 07:55	5°♄00'08	1°39'22
max. Earth dist.	10930 Dec 07 07:11	27°♄17'17	1.33770 AU	minimum elong	10931 Nov 18 07:36	4°♄58'23	1°39'54
	10930 Dec 08 14:45	0°♄		max. Earth dist.	10931 Nov 20 08:01	9°♄21'59	1.32508 AU
evening rise	10930 Dec 11 22:26	6°♄39'34		evening rise	10931 Nov 25 16:14	20°♄37'12	
desc. node	10930 Dec 20 05:35	21°♄59'46			10931 Nov 30 10:36	0°♄	
	10930 Dec 25 00:25	0°♄		desc. node	10931 Dec 07 02:38	11°♄57'25	
evening max el	10931 Jan 15 14:04	28°♄22'38	27°11'28		10931 Dec 19 00:56	0°♄	
	10931 Jan 17 08:29	0°♄		evening max el	10931 Dec 29 01:57	11°♄34'16	27°31'00
retrograde	10931 Jan 29 00:43	5°♄45'48		retrograde	10932 Jan 11 19:40	18°♄54'59	
evening set	10931 Feb 04 17:50	3°♄12'36		evening set	10932 Jan 18 19:00	16°♄27'33	
	10931 Feb 08 04:50	30°♄		min. Earth dist.	10932 Jan 22 13:12	13°♄15'56	0.63325 AU
min. Earth dist.	10931 Feb 08 15:47	29°♄30'39	0.65117 AU	inferior conj	10932 Jan 25 06:39	10°♄32'38	-1°43'26
inferior conj	10931 Feb 10 22:18	26°♄59'24	-0°33'32	minimum elong	10932 Jan 25 10:00	10°♄24'12	1°41'34
minimum elong	10931 Feb 10 23:17	26°♄56'39	0°32'44	asc. node	10932 Jan 30 12:10	6°♄05'23	
asc. node	10931 Feb 12 14:56	25°♄09'10		morning rise	10932 Feb 01 03:11	5°♄17'35	
morning rise	10931 Feb 17 06:15	21°♄28'40		direct	10932 Feb 03 11:53	4°♄50'45	
direct	10931 Feb 19 22:09	20°♄51'02		morning max el	10932 Feb 10 00:59	8°♄12'38	17°47'10

	10932 Feb 24 13:15	0° H		morning max el	10933 Jan 23 17:08	21° S 56'24	17°53'17
morning set	10932 Feb 26 08:20	3° H 06'11			10933 Jan 29 21:45	0° \approx	
desc. node	10932 Mar 04 02:52	14° H 42'44		morning set	10933 Feb 08 08:33	16° \approx 24'54	
					10933 Feb 15 21:55	0° H	
superior conj	10932 Mar 09 16:59	24° H 01'49	-0°41'14	desc. node	10933 Feb 18 23:35	5° H 21'37	
minimum elong	10932 Mar 09 12:40	23° H 44'04	0°40'29				
	10932 Mar 13 08:59	0° Y		superior conj	10933 Feb 19 00:02	5° H 23'33	-0°00'08
max. Earth dist.	10932 Mar 15 19:21	3° Y 54'01	1.44508 AU	minimum elong	10933 Feb 19 00:03	5° H 23'37	0°00'11
evening rise	10932 Mar 25 00:28	18° Y 18'35		behind sun begin	10933 Feb 18 15:45	4° H 47'42	
	10932 Apr 01 17:27	0° B		behind sun end	10933 Feb 19 08:21	5° H 59'26	
evening max el	10932 Apr 23 03:38	29° B 02'13	20°45'10	max. Earth dist.	10933 Feb 26 09:55	17° H 51'37	1.42953 AU
	10932 Apr 24 03:21	0° II		evening rise	10933 Mar 04 19:52	28° H 09'09	
asc. node	10932 Apr 27 09:54	2° II 33'50			10933 Mar 06 00:10	0° Y	
retrograde	10932 May 01 10:11	3° II 51'34			10933 Mar 26 10:46	0° B	
evening set	10932 May 05 13:25	2° II 14'28		evening max el	10933 Apr 05 22:59	12° B 46'31	21°59'21
	10932 May 07 20:02	30° R 8		asc. node	10933 Apr 14 07:10	18° B 13'37	
inferior conj	10932 May 10 20:06	26° B 05'15	3°09'34	retrograde	10933 Apr 15 08:04	18° B 18'51	
minimum elong	10932 May 10 18:58	26° B 09'07	3°08'58	evening set	10933 Apr 19 21:48	16° B 26'25	
min. Earth dist.	10932 May 11 09:15	25° B 19'50	0.68239 AU	inferior conj	10933 Apr 25 04:54	10° B 06'53	2°51'25
morning rise	10932 May 16 00:19	19° B 48'04		minimum elong	10933 Apr 25 03:04	10° B 13'15	2°50'43
direct	10932 May 21 10:15	17° B 24'29		min. Earth dist.	10933 Apr 25 05:05	10° B 06'13	0.68649 AU
desc. node	10932 May 31 03:46	22° B 46'27		morning rise	10933 Apr 30 08:10	3° B 54'32	
morning max el	10932 Jun 01 07:38	23° B 54'46	23°51'04	direct	10933 May 05 04:44	1° B 49'59	
	10932 Jun 06 17:39	0° II		morning max el	10933 May 14 19:07	7° B 28'53	22°21'40
	10932 Jun 27 19:38	0° S		desc. node	10933 May 18 00:38	10° B 59'14	
morning set	10932 Jul 06 15:17	14° S 28'43			10933 Jun 01 06:15	0° II	
max. Earth dist.	10932 Jul 10 10:47	21° S 06'14	1.38604 AU	morning set	10933 Jun 17 07:12	24° II 40'56	
	10932 Jul 15 08:49	0° O			10933 Jun 20 12:52	0° S	
				max. Earth dist.	10933 Jun 22 09:18	3° S 05'58	1.40886 AU
superior conj	10932 Jul 17 20:26	4° O 38'43	-0°59'22				
minimum elong	10932 Jul 18 00:28	4° O 57'43	0°59'13	superior conj	10933 Jun 30 04:24	16° S 38'23	-1°31'41
asc. node	10932 Jul 24 08:57	17° O 14'03		minimum elong	10933 Jun 30 10:31	17° S 05'43	1°31'30
evening rise	10932 Jul 26 21:40	22° O 11'40			10933 Jul 07 11:24	0° O	
	10932 Jul 30 22:40	0° np		evening rise	10933 Jul 10 10:43	5° O 33'59	
evening max el	10932 Aug 12 04:49	18° np 42'24	18°53'40	asc. node	10933 Jul 11 05:52	7° O 03'40	
retrograde	10932 Aug 20 18:30	22° np 59'10			10933 Jul 25 08:01	0° np	
evening set	10932 Aug 22 16:07	22° np 47'20		evening max el	10933 Jul 26 11:01	1° np 11'14	18°19'14
desc. node	10932 Aug 27 02:10	21° np 00'04		retrograde	10933 Aug 02 20:01	4° np 54'12	
inferior conj	10932 Aug 30 21:47	18° np 29'03	-1°11'28	evening set	10933 Aug 05 00:04	4° np 35'40	
minimum elong	10932 Aug 30 18:45	18° np 34'26	1°10'27	inferior conj	10933 Aug 12 10:27	29° O 57'15	0°27'59
min. Earth dist.	10932 Sep 02 22:10	16° np 21'02	0.56610 AU	minimum elong	10933 Aug 12 11:24	29° O 55'15	0°27'16
morning rise	10932 Sep 07 18:08	13° np 34'25			10933 Aug 12 09:07	30° R 8	
direct	10932 Sep 13 07:35	12° np 20'36		desc. node	10933 Aug 13 23:27	28° O 39'44	
morning max el	10932 Sep 27 13:31	19° np 41'40	26°11'24	min. Earth dist.	10933 Aug 15 18:57	27° O 10'52	0.58618 AU
	10932 Oct 06 08:22	0° A		morning rise	10933 Aug 19 19:15	24° O 27'02	
asc. node	10932 Oct 20 09:44	23° A 24'30		direct	10933 Aug 26 00:23	22° O 43'58	
	10932 Oct 23 16:22	0° ml			10933 Sep 08 21:33	0° np	
morning set	10932 Oct 25 22:45	4° ml 46'02		morning max el	10933 Sep 09 09:17	0° np 28'19	27°21'26
					10933 Sep 30 10:31	0° A	
superior conj	10932 Nov 01 18:48	19° ml 46'43	1°34'48	asc. node	10933 Oct 07 06:31	13° A 01'18	
minimum elong	10932 Nov 01 17:29	19° ml 39'28	1°35'09	morning set	10933 Oct 10 06:57	19° A 16'17	
max. Earth dist.	10932 Nov 02 14:37	21° ml 36'38	1.31714 AU		10933 Oct 15 05:29	0° ml	
	10932 Nov 06 10:32	0° A					
evening rise	10932 Nov 08 17:46	4° A 53'57		superior conj	10933 Oct 17 06:34	4° ml 32'46	1°24'34
	10932 Nov 22 02:17	0° S		minimum elong	10933 Oct 17 04:35	4° ml 21'43	1°24'39
desc. node	10932 Nov 22 23:44	1° S 27'41		max. Earth dist.	10933 Oct 16 23:46	3° ml 54'52	1.31410 AU
evening max el	10932 Dec 10 09:42	24° S 08'16	27°18'55	evening rise	10933 Oct 24 00:39	19° ml 23'32	
	10932 Dec 18 13:06	0° \approx			10933 Oct 29 04:29	0° A	
retrograde	10932 Dec 24 07:01	1° \approx 22'55		desc. node	10933 Nov 09 20:54	20° A 19'44	
	10932 Dec 29 19:07	30° R 3			10933 Nov 16 23:34	0° S	
evening set	10932 Dec 31 06:37	29° S 09'59		evening max el	10933 Nov 22 10:52	5° S 54'27	26°32'36
min. Earth dist.	10933 Jan 04 00:09	26° S 22'09	0.61293 AU	retrograde	10933 Dec 06 09:25	13° S 01'28	
inferior conj	10933 Jan 07 01:59	23° S 39'23	-2°59'07	evening set	10933 Dec 13 00:37	11° S 12'49	
minimum elong	10933 Jan 07 08:03	23° S 25'59	2°56'19	min. Earth dist.	10933 Dec 17 00:40	8° S 36'58	0.59165 AU
morning rise	10933 Jan 14 12:09	18° S 43'13		inferior conj	10933 Dec 20 04:47	6° S 10'32	-4°14'22
asc. node	10933 Jan 16 09:22	18° S 23'55		minimum elong	10933 Dec 20 12:47	5° S 55'07	4°11'26
direct	10933 Jan 16 16:06	18° S 23'35		morning rise	10933 Dec 28 03:41	1° S 35'44	

direct	10933 Dec 30 06:35	1°  19'49		morning max el	10934 Dec 21 05:56	17°  51'06	19°05'55
asc. node	10934 Jan 03 06:27	2°  19'26		asc. node	10934 Dec 21 03:29	17°  45'14	
morning max el	10934 Jan 07 04:06	5°  13'08	18°18'53		10934 Dec 30 02:40	0° 	
morning set	10934 Jan 22 22:48	0°  22'02		morning set	10935 Jan 06 22:38	14°  44'22	
	10934 Jan 22 18:10	0° 			10935 Jan 14 16:27	0° 	
superior conj	10934 Feb 01 05:55	17°  49'06	0°35'10	superior conj	10935 Jan 15 05:54	1°  04'51	1°02'42
minimum elong	10934 Feb 01 08:20	18°  00'08	0°35'14	minimum elong	10935 Jan 15 08:57	1°  19'30	1°02'49
desc. node	10934 Feb 05 20:20	26°  02'48		max. Earth dist.	10935 Jan 22 01:52	13°  47'47	1.38764 AU
	10934 Feb 08 03:03	0° 		desc. node	10935 Jan 23 17:09	16°  42'39	
max. Earth dist.	10934 Feb 08 19:27	1°  10'07	1.40965 AU	evening rise	10935 Jan 25 21:11	20°  29'36	
evening rise	10934 Feb 13 09:47	8°  51'06			10935 Jan 31 13:32	0° 	
	10934 Feb 27 01:12	0° 			10935 Feb 21 03:22	0° 	
evening max el	10934 Mar 19 14:28	26°  33'08	23°19'22	evening max el	10935 Mar 02 04:15	10°  23'18	24°38'53
	10934 Mar 23 11:58	0° 		retrograde	10935 Mar 13 18:58	17°  09'59	
retrograde	10934 Mar 30 03:24	2°  46'31		evening set	10935 Mar 19 08:11	14°  50'58	
asc. node	10934 Apr 01 04:25	2°  26'39		asc. node	10935 Mar 19 01:40	15°  04'31	
evening set	10934 Apr 04 04:34	0°  39'53		min. Earth dist.	10935 Mar 23 21:28	9°  41'13	0.68147 AU
	10934 Apr 04 22:04	30°  R 		inferior conj	10935 Mar 24 21:30	8°  21'11	1°46'04
min. Earth dist.	10934 Apr 09 01:54	24°  05'40	0.68613 AU	minimum elong	10935 Mar 24 19:27	8°  28'03	1°45'22
inferior conj	10934 Apr 09 13:59	24°  09'13	2°23'27	morning rise	10935 Mar 30 06:52	2°  22'36	
minimum elong	10934 Apr 09 11:49	24°  09'41	2°22'41	direct	10935 Apr 03 01:34	1°  00'45	
morning rise	10934 Apr 14 18:59	18°  07'01		morning max el	10935 Apr 10 11:27	5°  08'42	19°48'16
direct	10934 Apr 19 02:16	16°  23'47		desc. node	10935 Apr 21 18:13	19°  31'30	
morning max el	10934 Apr 27 11:33	21°  12'38	20°58'51	greatest brilliancy	10935 Apr 23 10:38	21°  58'02	-0.6m
desc. node	10934 May 04 21:27	29°  05'19			10935 Apr 28 20:24	0° 	
	10934 May 04 21:57	0° 		morning set	10935 May 06 20:55	12°  12'54	
	10934 May 25 11:41	0° 		max. Earth dist.	10935 May 18 01:24	29°  40'54	1.44526 AU
morning set	10934 May 27 21:21	3°  11'44			10935 May 18 06:13	0° 	
max. Earth dist.	10934 Jun 04 13:37	15°  11'58	1.42941 AU				
superior conj	10934 Jun 11 14:48	27°  11'40	-1°58'07	superior conj	10935 May 23 01:02	7°  11'40	-2°12'18
minimum elong	10934 Jun 11 20:59	28°  11'06	1°58'16	minimum elong	10935 May 23 03:06	7°  11'48	2°12'49
	10934 Jun 12 23:42	0° 			10935 Jun 05 11:49	0° 	
evening rise	10934 Jun 23 09:27	18°  04'15		evening rise	10935 Jun 05 12:59	0°  04'58	
asc. node	10934 Jun 28 02:49	26°  03'58		asc. node	10935 Jun 14 23:49	15°  05'43	
	10934 Jun 30 01:10	0° 		evening max el	10935 Jun 23 12:51	27°  03'14	18°09'11
evening max el	10934 Jul 09 22:56	14°  01'10	18°04'45		10935 Jun 26 17:25	0° 	
retrograde	10934 Jul 16 14:26	17°  03'50		retrograde	10935 Jun 29 21:36	0°  01'52	
evening set	10934 Jul 19 02:28	17°  06'09		evening set	10935 Jul 02 17:38	0°  10'20	
inferior conj	10934 Jul 25 19:21	12°  07'39	1°42'54		10935 Jul 03 01:42	30°  R 	
minimum elong	10934 Jul 25 21:57	12°  01'21	1°41'35	inferior conj	10935 Jul 08 20:42	24°  05'53	2°33'17
min. Earth dist.	10934 Jul 28 23:41	9°  05'08	0.60886 AU	minimum elong	10935 Jul 08 23:15	24°  06'46	2°32'08
desc. node	10934 Jul 31 20:42	6°  04'22		min. Earth dist.	10935 Jul 11 13:35	21°  05'57	0.63107 AU
morning rise	10934 Aug 01 14:45	6°  01'11		morning rise	10935 Jul 15 03:10	18°  04'41	
direct	10934 Aug 08 05:26	4°  00'14		desc. node	10935 Jul 18 17:54	16°  04'41	
morning max el	10934 Aug 22 11:52	11°  08'15	27°54'50	direct	10935 Jul 21 20:09	16°  09'22	
	10934 Sep 05 17:22	0° 		morning max el	10935 Aug 04 19:44	24°  01'37	27°49'53
	10934 Sep 22 17:36	0° 			10935 Aug 10 01:17	0° 	
morning set	10934 Sep 24 10:36	3°  30'03			10935 Aug 30 02:42	0° 	
asc. node	10934 Sep 24 03:16	2°  52'09		morning set	10935 Sep 08 07:32	17°  07'22	
max. Earth dist.	10934 Sep 30 07:44	16°  06'28	1.31606 AU	asc. node	10935 Sep 11 00:03	22°  07'52	
				max. Earth dist.	10935 Sep 13 10:54	28°  02'38	1.32308 AU
					10935 Sep 14 08:48	0° 	
superior conj	10934 Oct 01 17:21	19°  01'11	1°08'57	superior conj	10935 Sep 16 01:17	3°  03'58	0°48'10
minimum elong	10934 Oct 01 15:06	18°  05'30	1°08'45	minimum elong	10935 Sep 15 23:18	3°  02'48	0°47'46
	10934 Oct 06 14:38	0° 		evening rise	10935 Sep 22 22:09	18°  01'36	
evening rise	10934 Oct 08 10:44	3°  15'59			10935 Sep 28 10:42	0° 	
	10934 Oct 22 02:58	0° 		desc. node	10935 Oct 14 15:24	25°  02'02	
desc. node	10934 Oct 27 18:07	8°  17'54		evening max el	10935 Oct 16 14:59	27°  04'17	23°37'55
evening max el	10934 Nov 04 03:56	16°  14'48	25°15'10		10935 Oct 20 01:12	0° 	
retrograde	10934 Nov 18 00:39	23°  14'46		retrograde	10935 Oct 30 03:02	3°  14'48	
evening set	10934 Nov 23 20:16	22°  13'30		evening set	10935 Nov 03 15:36	3°  13'03	
min. Earth dist.	10934 Nov 28 16:02	19°  14'49	0.57164 AU	min. Earth dist.	10935 Nov 10 01:08	0°  00'36	0.55579 AU
inferior conj	10934 Dec 01 11:56	17°  16'56	-5°16'54		10935 Nov 10 01:32	30°  R 	
minimum elong	10934 Dec 01 18:53	17°  14'44	5°15'06	inferior conj	10935 Nov 11 22:47	28°  02'52	-5°47'04
morning rise	10934 Dec 09 19:47	13°  14'43		minimum elong	10935 Nov 11 23:43	28°  01'51	5°46'33
direct	10934 Dec 12 03:28	13° 17'27					

morning rise	10935 Nov 20 09:40	24° \mathbb{M} 59'14		inferior conj	10936 Oct 21 18:30	9° \mathbb{M} 09'52	-5°24'45
direct	10935 Nov 23 05:07	24° \mathbb{M} 39'43		minimum elong	10936 Oct 21 11:19	9° \mathbb{M} 19'56	5°23'19
morning max el	10935 Dec 03 19:11	29° \mathbb{M} 40'44	20°15'47	min. Earth dist.	10936 Oct 21 08:07	9° \mathbb{M} 24'25	0.54697 AU
	10935 Dec 04 03:10	0° \mathbb{A}		morning rise	10936 Oct 30 03:49	5° \mathbb{M} 22'45	
asc. node	10935 Dec 08 00:29	4° \mathbb{A} 26'52		direct	10936 Nov 02 15:58	4° \mathbb{M} 55'42	
morning set	10935 Dec 22 04:44	29° \mathbb{A} 22'04		morning max el	10936 Nov 14 18:54	10° \mathbb{M} 40'10	21°47'09
	10935 Dec 22 12:09	0° \mathbb{B}		asc. node	10936 Nov 23 21:28	22° \mathbb{M} 08'41	
					10936 Nov 28 11:55	0° \mathbb{A}	
superior conj	10935 Dec 29 19:21	14° \mathbb{B} 57'41	1°22'13	morning set	10936 Dec 05 14:39	14° \mathbb{A} 08'23	
minimum elong	10935 Dec 29 21:55	15° \mathbb{B} 10'35	1°22'32				
max. Earth dist.	10936 Jan 04 09:08	25° \mathbb{B} 54'07	1.36600 AU	superior conj	10936 Dec 12 18:26	29° \mathbb{A} 17'06	1°34'12
	10936 Jan 06 13:27	0° \mathbb{A}		minimum elong	10936 Dec 12 19:57	29° \mathbb{A} 25'06	1°34'42
evening rise	10936 Jan 08 04:19	2° \mathbb{A} 58'34			10936 Dec 13 02:38	0° \mathbb{B}	
desc. node	10936 Jan 10 14:01	7° \mathbb{A} 17'06		max. Earth dist.	10936 Dec 16 21:32	7° \mathbb{B} 47'20	1.34688 AU
	10936 Jan 24 14:26	0° \mathbb{H}		evening rise	10936 Dec 21 03:47	16° \mathbb{B} 09'44	
evening max el	10936 Feb 12 17:42	24° \mathbb{H} 13'11	25°50'52	desc. node	10936 Dec 27 10:59	27° \mathbb{B} 42'03	
	10936 Feb 20 05:35	0° \mathbb{Y}			10936 Dec 28 18:46	0° \mathbb{A}	
retrograde	10936 Feb 25 05:48	1° \mathbb{Y} 22'44			10937 Jan 18 02:15	0° \mathbb{H}	
	10936 Feb 29 18:54	30° \mathbb{R} \mathbb{H}		evening max el	10937 Jan 25 07:10	7° \mathbb{H} 56'22	26°48'01
evening set	10936 Mar 02 07:02	28° \mathbb{H} 54'10		retrograde	10937 Feb 07 11:14	15° \mathbb{H} 18'00	
asc. node	10936 Mar 04 22:56	26° \mathbb{H} 15'04		evening set	10937 Feb 13 23:18	12° \mathbb{H} 44'26	
min. Earth dist.	10936 Mar 06 13:31	24° \mathbb{H} 19'31	0.67271 AU	min. Earth dist.	10937 Feb 17 23:58	8° \mathbb{H} 43'58	0.66006 AU
inferior conj	10936 Mar 08 01:31	22° \mathbb{H} 26'10	0°59'15	inferior conj	10937 Feb 19 23:54	6° \mathbb{H} 23'54	0°03'02
minimum elong	10936 Mar 08 00:07	22° \mathbb{H} 30'35	0°58'52	minimum elong	10937 Feb 19 23:48	6° \mathbb{H} 24'10	0°03'18
morning rise	10936 Mar 13 17:46	16° \mathbb{H} 36'54		transit middle	10937 Feb 19 23:48	6° \mathbb{H} 24'10	0°03'18
direct	10936 Mar 17 00:55	15° \mathbb{H} 34'44		transit begin	10937 Feb 19 20:55	6° \mathbb{H} 32'38	
morning max el	10936 Mar 23 19:04	19° \mathbb{H} 14'35	18°52'52	transit end	10937 Feb 20 02:41	6° \mathbb{H} 15'44	
	10936 Apr 01 07:11	0° \mathbb{Y}		asc. node	10937 Feb 19 20:11	6° \mathbb{H} 34'48	
greatest brilliancy	10936 Apr 06 22:43	8° \mathbb{Y} 26'51	-0.8m	morning rise	10937 Feb 26 01:30	0° \mathbb{H} 45'57	
desc. node	10936 Apr 07 14:58	9° \mathbb{Y} 29'06		direct	10937 Feb 28 22:27	0° \mathbb{H} 00'29	
morning set	10936 Apr 15 04:28	21° \mathbb{Y} 11'47		morning max el	10937 Mar 07 08:46	3° \mathbb{H} 24'58	18°13'54
	10936 Apr 20 20:11	0° \mathbb{B}		desc. node	10937 Mar 25 11:42	29° \mathbb{H} 44'43	
max. Earth dist.	10936 Apr 29 18:43	13° \mathbb{B} 57'22	1.45463 AU		10937 Mar 25 15:30	0° \mathbb{Y}	
				morning set	10937 Mar 26 13:42	1° \mathbb{Y} 29'14	
superior conj	10936 May 01 14:33	16° \mathbb{B} 49'23	-2°08'03				
minimum elong	10936 May 01 09:12	16° \mathbb{B} 28'21	2°08'14	superior conj	10937 Apr 10 21:07	25° \mathbb{Y} 47'39	-1°43'48
	10936 May 09 22:19	0° \mathbb{H}		minimum elong	10937 Apr 10 11:39	25° \mathbb{Y} 10'34	1°43'10
evening rise	10936 May 16 17:15	10° \mathbb{H} 54'55		max. Earth dist.	10937 Apr 12 14:18	28° \mathbb{Y} 28'50	1.45667 AU
	10936 May 28 15:53	0° \mathbb{B}			10937 Apr 13 13:38	0° \mathbb{B}	
asc. node	10936 May 31 20:54	4° \mathbb{B} 42'57		evening rise	10937 Apr 26 22:19	20° \mathbb{B} 49'57	
evening max el	10936 Jun 06 01:37	11° \mathbb{B} 05'10	18°31'46		10937 May 02 19:37	0° \mathbb{H}	
retrograde	10936 Jun 12 13:11	14° \mathbb{B} 35'52		greatest brilliancy	10937 May 08 07:36	8° \mathbb{H} 27'37	-0.7m
evening set	10936 Jun 15 17:12	13° \mathbb{B} 39'21		asc. node	10937 May 18 18:02	22° \mathbb{H} 55'21	
inferior conj	10936 Jun 21 10:21	8° \mathbb{B} 05'36	3°02'59	evening max el	10937 May 20 10:47	24° \mathbb{H} 45'21	19°11'37
minimum elong	10936 Jun 21 12:01	8° \mathbb{B} 00'34	3°02'09	retrograde	10937 May 27 09:39	28° \mathbb{H} 38'53	
min. Earth dist.	10936 Jun 23 12:47	5° \mathbb{B} 34'18	0.65068 AU	evening set	10937 May 30 22:01	27° \mathbb{H} 26'56	
morning rise	10936 Jun 27 05:54	1° \mathbb{B} 45'51		inferior conj	10937 Jun 05 08:48	21° \mathbb{H} 38'11	3°15'56
	10936 Jun 29 21:25	30° \mathbb{R} \mathbb{H}		minimum elong	10937 Jun 05 09:19	21° \mathbb{H} 36'31	3°15'19
direct	10936 Jul 03 18:58	29° \mathbb{H} 03'36		min. Earth dist.	10937 Jun 06 20:18	19° \mathbb{H} 43'26	0.66649 AU
desc. node	10936 Jul 04 15:03	29° \mathbb{H} 06'01		morning rise	10937 Jun 10 20:07	15° \mathbb{H} 16'41	
	10936 Jul 07 23:37	0° \mathbb{B}		direct	10937 Jun 17 00:47	12° \mathbb{H} 34'30	
morning max el	10936 Jul 17 06:19	6° \mathbb{B} 59'19	27°10'45	desc. node	10937 Jun 21 12:09	13° \mathbb{H} 43'54	
	10936 Aug 03 23:44	0° \mathbb{Q}		morning max el	10937 Jun 29 17:08	20° \mathbb{H} 09'20	26°05'00
	10936 Aug 21 09:43	0° \mathbb{M}			10937 Jul 08 03:34	0° \mathbb{B}	
morning set	10936 Aug 21 19:05	0° \mathbb{M} 45'14			10937 Jul 28 02:45	0° \mathbb{Q}	
max. Earth dist.	10936 Aug 26 05:39	9° \mathbb{M} 35'38	1.33511 AU	morning set	10937 Aug 04 17:43	13° \mathbb{Q} 30'23	
asc. node	10936 Aug 27 20:51	12° \mathbb{M} 57'22		max. Earth dist.	10937 Aug 08 13:51	20° \mathbb{Q} 46'12	1.35199 AU
					10937 Aug 13 05:42	0° \mathbb{M}	
superior conj	10936 Aug 30 04:17	17° \mathbb{M} 47'50	0°22'33				
minimum elong	10936 Aug 30 03:10	17° \mathbb{M} 41'56	0°22'08	superior conj	10937 Aug 13 23:46	1° \mathbb{M} 31'41	-0°07'16
	10936 Sep 04 21:24	0° \mathbb{Q}		minimum elong	10937 Aug 14 00:13	1° \mathbb{M} 33'56	0°07'31
evening rise	10936 Sep 06 09:00	3° \mathbb{Q} 09'10		behind sun begin	10937 Aug 13 18:50	1° \mathbb{M} 06'32	
	10936 Sep 21 03:06	0° \mathbb{M}		behind sun end	10937 Aug 14 05:35	2° \mathbb{M} 01'23	
evening max el	10936 Sep 27 03:43	7° \mathbb{M} 12'18	21°58'10	asc. node	10937 Aug 14 17:39	3° \mathbb{M} 03'01	
desc. node	10936 Sep 30 12:42	10° \mathbb{M} 05'50		evening rise	10937 Aug 21 17:12	17° \mathbb{M} 31'24	
retrograde	10936 Oct 09 18:32	13° \mathbb{M} 29'02			10937 Aug 27 23:51	0° \mathbb{Q}	
evening set	10936 Oct 12 20:12	13° \mathbb{M} 07'56		evening max el	10937 Sep 09 03:05	17° \mathbb{Q} 48'23	20°30'44

desc. node	10937 Sep 17 10:02	22°♄59'02		10938 Aug 23 13:10	0°♄	
retrograde	10937 Sep 20 06:32	23°♄20'18	retrograde	10938 Sep 01 03:03	3°♄52'18	
evening set	10937 Sep 22 08:46	23°♄09'26	evening set	10938 Sep 02 23:12	3°♄42'24	
inferior conj	10937 Oct 01 11:10	19°♄13'02 -4°06'42	desc. node	10938 Sep 04 07:21	3°♄23'22	
minimum elong	10937 Oct 01 01:20	19°♄27'18 4°03'35		10938 Sep 10 23:38	30°♄	
min. Earth dist.	10937 Oct 02 16:29	18°♄30'28 0.54730 AU	inferior conj	10938 Sep 11 15:04	29°♄34'59 -2°16'27	
morning rise	10937 Oct 09 17:27	15°♄11'41	minimum elong	10938 Sep 11 09:01	29°♄44'50 2°14'12	
direct	10937 Oct 14 00:34	14°♄32'00	min. Earth dist.	10938 Sep 14 04:08	27°♄55'56 0.55701 AU	
morning max el	10937 Oct 27 08:41	21°♄00'04 23°32'40	morning rise	10938 Sep 19 16:16	25°♄02'11	
	10937 Nov 04 01:16	0°♄	direct	10938 Sep 24 19:17	24°♄02'36	
asc. node	10937 Nov 10 18:23	10°♄35'45		10938 Oct 07 14:42	0°♄	
morning set	10937 Nov 20 02:16	28°♄56'17	morning max el	10938 Oct 08 19:55	1°♄06'59 25°17'50	
	10937 Nov 20 14:13	0°♄	asc. node	10938 Oct 28 15:16	29°♄36'50	
				10938 Oct 28 20:09	0°♄	
superior conj	10937 Nov 26 23:58	13°♄52'47 1°39'18	morning set	10938 Nov 04 13:53	13°♄41'03	
minimum elong	10937 Nov 27 00:18	13°♄54'36 1°39'53				
max. Earth dist.	10937 Nov 29 17:35	19°♄44'03 1.33169 AU	superior conj	10938 Nov 11 09:30	28°♄37'23 1°38'08	
evening rise	10937 Dec 04 15:49	29°♄52'52	minimum elong	10938 Nov 11 08:44	28°♄33'08 1°38'37	
	10937 Dec 04 17:15	0°♄		10938 Nov 12 00:30	0°♄	
desc. node	10937 Dec 14 07:59	17°♄51'26	max. Earth dist.	10938 Nov 12 21:03	1°♄52'48 1.32112 AU	
	10937 Dec 21 20:15	0°♄	evening rise	10938 Nov 18 13:14	13°♄59'50	
evening max el	10938 Jan 07 20:00	21°♄22'32 27°23'18		10938 Nov 26 19:22	0°♄	
retrograde	10938 Jan 21 10:30	28°♄46'20	desc. node	10938 Dec 01 05:02	7°♄38'28	
evening set	10938 Jan 28 06:44	26°♄14'22		10938 Dec 17 02:33	0°♄	
min. Earth dist.	10938 Feb 01 02:43	22°♄45'55 0.64387 AU	evening max el	10938 Dec 21 06:30	4°♄19'57 27°30'01	
inferior conj	10938 Feb 03 14:10	20°♄07'51 -1°02'15	retrograde	10939 Jan 04 02:29	11°♄38'35	
minimum elong	10938 Feb 03 16:05	20°♄02'43 1°01'01	evening set	10939 Jan 11 02:32	9°♄16'25	
asc. node	10938 Feb 06 17:26	17°♄00'29	min. Earth dist.	10939 Jan 14 20:01	6°♄15'38 0.62480 AU	
morning rise	10938 Feb 10 03:18	14°♄43'36	inferior conj	10939 Jan 17 17:22	3°♄30'55 -2°15'08	
direct	10938 Feb 12 15:46	14°♄11'11	minimum elong	10939 Jan 17 21:53	3°♄20'09 2°12'48	
morning max el	10938 Feb 19 01:50	17°♄31'26 17°51'52		10939 Jan 21 19:18	30°♄	
	10938 Feb 28 05:14	0°♄	morning rise	10939 Jan 24 19:39	28°♄23'16	
morning set	10938 Mar 08 03:41	13°♄10'47	asc. node	10939 Jan 24 14:39	28°♄27'41	
desc. node	10938 Mar 12 08:25	20°♄12'36	direct	10939 Jan 27 01:52	28°♄00'00	
	10938 Mar 18 07:03	0°♄		10939 Feb 01 04:08	0°♄	
			morning max el	10939 Feb 02 19:12	1°♄25'46 17°47'25	
superior conj	10938 Mar 21 14:52	5°♄22'35 -1°05'40	morning set	10939 Feb 18 17:16	25°♄59'56	
minimum elong	10938 Mar 21 07:47	4°♄54'05 1°04'44		10939 Feb 20 23:44	0°♄	
max. Earth dist.	10938 Mar 26 09:31	12°♄58'43 1.45126 AU	desc. node	10939 Feb 27 05:06	10°♄48'30	
evening rise	10938 Apr 06 11:56	0°♄13'30				
	10938 Apr 06 08:25	0°♄	superior conj	10939 Mar 02 07:25	16°♄03'04 -0°23'20	
greatest brilliancy	10938 Apr 21 13:09	22°♄50'44 -0.6m	minimum elong	10939 Mar 02 05:07	15°♄53'27 0°22'45	
	10938 Apr 26 14:58	0°♄	max. Earth dist.	10939 Mar 09 02:22	27°♄12'33 1.43912 AU	
evening max el	10938 May 03 14:48	8°♄28'40 20°07'14		10939 Mar 10 20:09	0°♄	
asc. node	10938 May 05 15:12	10°♄20'18	evening rise	10939 Mar 17 00:58	9°♄44'21	
retrograde	10938 May 11 08:11	12°♄55'26		10939 Mar 30 12:48	0°♄	
evening set	10938 May 15 05:40	11°♄27'41	evening max el	10939 Apr 16 13:13	22°♄12'57 21°15'48	
inferior conj	10938 May 20 13:07	5°♄25'35 3°15'17	asc. node	10939 Apr 22 12:25	26°♄43'09	
minimum elong	10938 May 20 12:32	5°♄27'34 3°14'43	retrograde	10939 Apr 25 06:40	27°♄20'06	
min. Earth dist.	10938 May 21 10:15	4°♄13'52 0.67788 AU	evening set	10939 Apr 29 14:14	25°♄36'31	
	10938 May 24 20:56	30°♄	inferior conj	10939 May 04 20:51	19°♄22'53 3°03'07	
morning rise	10938 May 25 19:05	29°♄06'04	minimum elong	10939 May 04 19:24	19°♄27'57 3°02'29	
direct	10938 May 31 12:26	26°♄33'23	min. Earth dist.	10939 May 05 04:28	18°♄56'24 0.68468 AU	
desc. node	10938 Jun 08 09:09	0°♄05'54	morning rise	10939 May 10 00:20	13°♄07'38	
	10938 Jun 08 06:12	0°♄	direct	10939 May 15 04:45	10°♄51'24	
morning max el	10938 Jun 12 02:56	3°♄31'15 24°42'19	morning max el	10939 May 25 12:46	17°♄00'01 23°12'42	
	10938 Jul 02 08:37	0°♄	desc. node	10939 May 26 06:04	17°♄44'25	
morning set	10938 Jul 17 22:59	25°♄26'09		10939 Jun 05 07:00	0°♄	
	10938 Jul 20 12:26	0°♄		10939 Jun 25 09:36	0°♄	
max. Earth dist.	10938 Jul 21 13:10	1°♄52'16 1.37290 AU	morning set	10939 Jun 29 05:40	6°♄18'36	
			max. Earth dist.	10939 Jul 03 10:04	13°♄25'21 1.39586 AU	
superior conj	10938 Jul 28 08:39	14°♄43'08 -0°39'59				
minimum elong	10938 Jul 28 11:16	14°♄55'52 0°39'58	superior conj	10939 Jul 11 02:59	27°♄12'05 -1°13'26	
asc. node	10938 Aug 01 14:30	23°♄05'50	minimum elong	10939 Jul 11 08:00	27°♄35'15 1°13'14	
	10938 Aug 05 01:04	0°♄		10939 Jul 12 15:09	0°♄	
evening rise	10938 Aug 05 20:25	1°♄36'57	asc. node	10939 Jul 19 11:21	13°♄01'25	
evening max el	10938 Aug 22 16:25	29°♄10'40 19°22'59	evening rise	10939 Jul 20 15:38	15°♄17'35	

	10939 Jul 28 14:29	0°♎				10940 Jul 03 20:02	0°♏		
evening max el	10939 Aug 05 17:33	11°♎17'27	18°36'31	asc. node		10940 Jul 05 08:15	2°♏45'46		
retrograde	10939 Aug 13 17:24	15°♎17'39		evening max el		10940 Jul 19 02:37	24°♏00'28	18°10'38	
evening set	10939 Aug 15 17:35	15°♎03'20		retrograde		10940 Jul 26 02:45	27°♏33'44		
desc. node	10939 Aug 22 04:40	11°♎40'47		evening set		10940 Jul 28 10:11	27°♏11'06		
inferior conj	10939 Aug 23 15:03	10°♎36'35	-0°26'37	inferior conj		10940 Aug 04 12:42	22°♏23'35	1°02'53	
minimum elong	10939 Aug 23 13:59	10°♎38'36	0°26'28	minimum elong		10940 Aug 04 14:38	22°♏19'18	1°01'48	
min. Earth dist.	10939 Aug 26 20:41	8°♎10'07	0.57420 AU	min. Earth dist.		10940 Aug 07 20:27	19°♏27'46	0.59574 AU	
morning rise	10939 Aug 31 06:57	5°♎26'26		desc. node		10940 Aug 08 01:55	19°♏16'19		
direct	10939 Sep 06 03:55	4°♎00'25		morning rise		10940 Aug 11 15:54	16°♏40'58		
morning max el	10939 Sep 20 11:24	11°♎31'40	26°45'09	direct		10940 Aug 18 01:49	14°♏45'49		
	10939 Oct 04 19:48	0°♏		morning max el		10940 Sep 01 10:15	22°♏36'21	27°40'26	
asc. node	10939 Oct 15 12:04	19°♏02'40				10940 Sep 07 23:40	0°♎		
morning set	10939 Oct 19 23:49	28°♏17'53				10940 Sep 26 22:07	0°♏		
	10939 Oct 20 18:53	0°♎		asc. node		10940 Oct 01 08:51	8°♏46'18		
				morning set		10940 Oct 03 06:20	12°♏41'57		
superior conj	10939 Oct 26 20:58	13°♎24'25	1°31'08	max. Earth dist.		10940 Oct 09 14:35	26°♏28'22	1.31437 AU	
minimum elong	10939 Oct 26 19:20	13°♎15'18	1°31'22						
max. Earth dist.	10939 Oct 27 05:15	14°♎10'30	1.31531 AU	superior conj		10940 Oct 10 08:32	28°♏08'07	1°18'36	
evening rise	10939 Nov 02 17:21	28°♎23'08		minimum elong		10940 Oct 10 06:23	27°♏56'09	1°18'33	
	10939 Nov 03 11:45	0°♏				10940 Oct 11 04:38	0°♎		
desc. node	10939 Nov 18 02:10	26°♏54'11		evening rise		10940 Oct 17 01:50	12°♎56'13		
	10939 Nov 20 02:25	0°♏				10940 Oct 25 14:11	0°♏		
evening max el	10939 Dec 03 12:02	16°♏35'45	27°03'26	desc. node		10940 Nov 03 23:22	15°♏25'41		
retrograde	10939 Dec 17 09:57	23°♏46'20		evening max el		10940 Nov 14 09:47	27°♏59'38	26°02'56	
evening set	10939 Dec 24 07:12	21°♏42'58				10940 Nov 16 16:13	0°♏		
min. Earth dist.	10939 Dec 28 02:32	19°♏01'49	0.60390 AU	retrograde		10940 Nov 28 07:36	5°♏02'43		
inferior conj	10939 Dec 31 06:09	16°♏24'19	-3°31'41	evening set		10940 Dec 04 16:14	3°♏26'44		
minimum elong	10939 Dec 31 13:14	16°♏09'32	3°28'39	min. Earth dist.		10940 Dec 08 22:34	0°♏51'34	0.58285 AU	
morning rise	10940 Jan 07 21:56	11°♏36'39				10940 Dec 10 03:31	30°♎♏		
direct	10940 Jan 10 01:00	11°♏18'55		inferior conj		10940 Dec 12 00:53	28°♏37'14	-4°43'28	
asc. node	10940 Jan 11 11:48	11°♏27'28		minimum elong		10940 Dec 12 08:58	28°♏22'36	4°40'51	
morning max el	10940 Jan 17 09:32	14°♏59'17	18°01'39	morning rise		10940 Dec 20 04:15	24°♏12'08		
	10940 Jan 27 17:27	0°♏		direct		10940 Dec 22 08:32	23°♏56'37		
morning set	10940 Feb 02 00:08	9°♏37'40		asc. node		10940 Dec 28 08:53	26°♏03'06		
				morning max el		10940 Dec 30 17:07	28°♏01'03	18°36'13	
superior conj	10940 Feb 12 00:41	27°♏53'42	0°15'44			10941 Jan 01 13:34	0°♏		
minimum elong	10940 Feb 12 01:59	27°♏59'23	0°15'54	morning set		10941 Jan 15 18:57	23°♏47'13		
behind sun begin	10940 Feb 12 01:16	27°♏56'16				10941 Jan 18 23:54	0°♏		
behind sun end	10940 Feb 12 02:41	28°♏02'30							
	10940 Feb 13 05:24	0°♏		superior conj		10941 Jan 24 14:56	10°♏42'50	0°47'49	
desc. node	10940 Feb 14 01:50	1°♏29'08		minimum elong		10941 Jan 24 17:48	10°♏56'13	0°47'53	
max. Earth dist.	10940 Feb 19 15:18	10°♏57'02	1.42151 AU	desc. node		10941 Jan 30 22:37	22°♏10'23		
evening rise	10940 Feb 25 03:32	19°♏55'55		max. Earth dist.		10941 Jan 31 23:34	23°♏59'35	1.40038 AU	
	10940 Mar 02 14:13	0°♏				10941 Feb 04 11:47	0°♏		
	10940 Mar 23 23:04	0°♏		evening rise		10941 Feb 05 02:34	1°♏02'00		
evening max el	10940 Mar 29 06:48	5°♏58'57	22°33'03			10941 Feb 23 22:53	0°♏		
retrograde	10940 Apr 08 03:30	11°♏48'42		evening max el		10941 Mar 11 21:13	19°♏46'43	23°53'34	
asc. node	10940 Apr 08 09:40	11°♏48'23		retrograde		10941 Mar 22 21:23	26°♏15'34		
evening set	10940 Apr 12 22:07	9°♏49'57		asc. node		10941 Mar 26 06:55	25°♏21'34		
inferior conj	10940 Apr 18 06:00	3°♏27'09	2°40'43	evening set		10941 Mar 28 03:45	24°♏03'03		
minimum elong	10940 Apr 18 03:59	3°♏34'10	2°39'59	min. Earth dist.		10941 Apr 01 21:21	18°♏33'17	0.68469 AU	
min. Earth dist.	10940 Apr 18 00:53	3°♏44'55	0.68691 AU	inferior conj		10941 Apr 02 14:38	17°♏34'27	2°08'44	
	10940 Apr 20 19:58	30°♎♏		minimum elong		10941 Apr 02 12:27	17°♏41'53	2°07'58	
morning rise	10940 Apr 23 09:42	27°♏17'30		morning rise		10941 Apr 07 21:12	11°♏31'32		
direct	10940 Apr 28 00:38	25°♏21'52		direct		10941 Apr 11 22:58	9°♏57'42		
	10940 May 06 10:22	0°♏		morning max el		10941 Apr 19 21:32	14°♏27'43	20°27'09	
morning max el	10940 May 07 01:57	0°♏38'08	21°45'19	desc. node		10941 Apr 28 23:41	25°♏33'44		
desc. node	10940 May 12 02:54	6°♏18'56				10941 May 02 03:43	0°♏		
	10940 May 29 01:59	0°♏		morning set		10941 May 18 15:56	24°♏42'19		
morning set	10940 Jun 08 10:11	16°♏00'02				10941 May 22 01:31	0°♏		
max. Earth dist.	10940 Jun 14 11:16	25°♏49'41	1.41809 AU	max. Earth dist.		10941 May 27 19:00	9°♏05'23	1.43682 AU	
	10940 Jun 16 23:09	0°♏							
superior conj	10940 Jun 22 02:17	8°♏48'27	-1°43'56	superior conj		10941 Jun 03 02:25	19°♏23'15	-2°06'02	
minimum elong	10940 Jun 22 08:48	9°♏16'57	1°43'52	minimum elong		10941 Jun 03 07:27	19°♏44'08	2°06'22	
evening rise	10940 Jul 02 23:10	28°♏24'10				10941 Jun 09 09:29	0°♏		
				evening rise		10941 Jun 15 14:21	10°♏45'07		

asc. node	10941 Jun 22 05:14	22°☿13'43			10942 May 14 18:15	0°♊	
	10941 Jun 27 00:50	0°♊		evening rise	10942 May 28 08:19	22°♊09'25	
evening max el	10941 Jul 02 15:44	7°♊10'02	18°04'21		10942 Jun 02 01:32	0°☿	
retrograde	10941 Jul 09 03:19	10°♊31'20		asc. node	10942 Jun 09 02:16	11°☿18'43	
evening set	10941 Jul 11 18:38	9°♊57'15		evening max el	10942 Jun 16 05:28	20°☿36'58	18°16'41
inferior conj	10941 Jul 18 05:09	4°♊50'35	2°07'02	retrograde	10942 Jun 22 14:28	24°☿00'19	
minimum elong	10941 Jul 18 07:53	4°♊43'34	2°05'45	evening set	10942 Jun 25 13:47	23°☿12'29	
min. Earth dist.	10941 Jul 21 05:11	1°♊48'11	0.61842 AU	inferior conj	10942 Jul 01 12:11	17°☿48'25	2°48'10
	10941 Jul 23 04:36	30°☿		minimum elong	10942 Jul 01 14:26	17°☿42'00	2°47'08
morning rise	10941 Jul 24 18:50	28°☿46'00		min. Earth dist.	10942 Jul 03 23:15	15°☿00'44	0.63975 AU
desc. node	10941 Jul 25 23:08	28°☿00'32		morning rise	10942 Jul 07 13:41	11°☿32'03	
direct	10941 Jul 31 11:08	26°☿25'03		desc. node	10942 Jul 12 20:20	9°☿00'41	
	10941 Aug 09 12:53	0°♊		direct	10942 Jul 14 05:44	8°☿54'07	
morning max el	10941 Aug 14 15:40	4°♊26'50	27°57'24	morning max el	10942 Jul 28 00:58	16°☿56'03	27°37'03
	10941 Sep 02 17:37	0°♊			10942 Aug 07 21:08	0°♊	
morning set	10941 Sep 17 07:30	26°♊48'16			10942 Aug 26 13:08	0°♊	
asc. node	10941 Sep 18 05:37	28°♊42'19		morning set	10942 Sep 01 00:49	10°♊29'13	
	10941 Sep 18 20:32	0°♊		asc. node	10942 Sep 05 02:23	18°♊45'12	
max. Earth dist.	10941 Sep 22 21:05	8°♊35'39	1.31839 AU	max. Earth dist.	10942 Sep 05 20:50	20°♊21'33	1.32750 AU
superior conj	10941 Sep 24 18:24	12°♊43'30	1°00'46	superior conj	10942 Sep 09 00:30	27°♊03'47	0°37'53
minimum elong	10941 Sep 24 16:11	12°♊31'22	1°00'28	minimum elong	10942 Sep 08 22:48	26°♊54'38	0°37'27
evening rise	10941 Oct 01 12:46	27°♊33'50			10942 Sep 10 09:10	0°♊	
	10941 Oct 02 16:07	0°♊		evening rise	10942 Sep 16 00:08	12°♊09'36	
	10941 Oct 19 14:35	0°♊			10942 Sep 24 23:49	0°♊	
desc. node	10941 Oct 21 20:37	2°♊56'04		evening max el	10942 Oct 08 10:08	18°♊42'45	22°54'54
evening max el	10941 Oct 26 23:30	8°♊34'47	24°35'15	desc. node	10942 Oct 08 17:55	19°♊01'28	
retrograde	10941 Nov 09 17:54	15°♊28'53		retrograde	10942 Oct 21 15:25	25°♊17'31	
evening set	10941 Nov 15 01:32	14°♊26'01		evening set	10942 Oct 25 12:26	24°♊44'48	
min. Earth dist.	10941 Nov 20 10:50	11°♊38'10	0.56419 AU	min. Earth dist.	10942 Nov 01 18:56	21°♊26'05	0.55101 AU
inferior conj	10941 Nov 22 23:17	10°♊02'36	-5°34'58	inferior conj	10942 Nov 03 02:41	20°♊40'32	-5°44'50
minimum elong	10941 Nov 23 04:18	9°♊54'38	5°33'51	minimum elong	10942 Nov 02 23:59	20°♊44'25	5°44'16
morning rise	10941 Dec 01 09:15	5°♊59'10		morning rise	10942 Nov 11 13:11	16°♊51'21	
direct	10941 Dec 03 20:54	5°♊42'25		direct	10942 Nov 14 15:10	16°♊29'10	
morning max el	10941 Dec 13 14:06	10°♊20'39	19°32'51	morning max el	10942 Nov 25 21:34	21°♊48'58	20°52'11
asc. node	10941 Dec 15 05:55	12°♊03'46		asc. node	10942 Dec 02 02:55	29°♊12'54	
	10941 Dec 26 16:48	0°♊			10942 Dec 02 15:58	0°♊	
morning set	10941 Dec 30 21:49	8°♊17'26		morning set	10942 Dec 15 05:49	22°♊59'20	
					10942 Dec 18 14:31	0°♊	
superior conj	10942 Jan 07 21:15	24°♊16'37	1°11'54	superior conj	10942 Dec 22 15:13	8°♊21'54	1°28'09
minimum elong	10942 Jan 08 00:11	24°♊31'03	1°12'07	minimum elong	10942 Dec 22 17:22	8°♊32'59	1°28'34
	10942 Jan 10 20:10	0°♊		max. Earth dist.	10942 Dec 27 14:01	18°♊17'32	1.35748 AU
max. Earth dist.	10942 Jan 14 05:24	6°♊20'46	1.37824 AU	evening rise	10942 Dec 31 13:20	25°♊51'43	
evening rise	10942 Jan 17 22:46	13°♊03'22			10943 Jan 02 19:33	0°♊	
desc. node	10942 Jan 17 19:29	12°♊48'50		desc. node	10943 Jan 04 16:25	3°♊20'00	
	10942 Jan 28 02:51	0°♊			10943 Jan 21 14:17	0°♊	
	10942 Feb 19 00:13	0°♊		evening max el	10943 Feb 05 00:07	17°♊25'19	26°17'29
evening max el	10942 Feb 22 10:32	3°♊36'41	25°10'45	retrograde	10943 Feb 17 20:00	24°♊41'33	
retrograde	10942 Mar 06 11:14	10°♊35'17		evening set	10943 Feb 24 01:53	22°♊10'28	
evening set	10942 Mar 12 05:34	8°♊11'39		min. Earth dist.	10943 Feb 28 05:50	17°♊50'12	0.66776 AU
asc. node	10942 Mar 13 04:11	7°♊19'59		asc. node	10943 Feb 28 01:27	18°♊03'21	
min. Earth dist.	10942 Mar 16 15:45	3°♊16'48	0.67823 AU	inferior conj	10943 Mar 01 22:51	15°♊44'42	0°36'35
inferior conj	10942 Mar 17 20:55	1°♊41'40	1°27'21	minimum elong	10943 Mar 01 21:55	15°♊47'34	0°36'25
minimum elong	10942 Mar 17 19:04	1°♊47'43	1°26'45	morning rise	10943 Mar 07 18:45	9°♊59'41	
	10942 Mar 19 04:32	30°♊		direct	10943 Mar 10 21:21	9°♊05'02	
morning rise	10942 Mar 23 08:54	25°♊46'48		morning max el	10943 Mar 17 11:17	12°♊37'10	18°34'09
direct	10942 Mar 26 22:26	24°♊33'48			10943 Mar 30 05:56	0°♊	
morning max el	10942 Apr 03 00:51	28°♊28'35	19°22'40	desc. node	10943 Apr 02 17:14	5°♊24'34	
	10942 Apr 04 11:52	0°♊		morning set	10943 Apr 07 09:04	12°♊44'12	
desc. node	10942 Apr 15 20:28	15°♊18'13			10943 Apr 18 09:02	0°♊	
greatest brilliancy	10942 Apr 15 19:07	15°♊13'11	-0.7m				
	10942 Apr 25 13:09	0°♊		superior conj	10943 Apr 23 11:16	7°♊57'53	-2°00'00
morning set	10942 Apr 27 15:50	3°♊14'58		minimum elong	10943 Apr 23 03:21	7°♊26'56	1°59'51
max. Earth dist.	10942 May 10 08:46	23°♊01'49	1.45005 AU	max. Earth dist.	10943 Apr 23 03:11	7°♊26'18	1.45642 AU
superior conj	10942 May 14 02:48	28°♊58'24	-2°13'01		10943 May 07 11:23	0°♊	
minimum elong	10942 May 14 01:49	28°♊54'30	2°13'30	evening rise	10943 May 09 02:17	2°♊34'25	

greatest brilliancy	10943 May 17 11:56	15° Π 54'08	-0.8m	superior conj	10944 Apr 01 20:26	17° Υ 05'58	-1°28'45
asc. node	10943 May 26 23:22	29° Π 53'23		minimum elong	10944 Apr 01 11:20	16° Υ 30'02	1°27'52
	10943 May 27 01:24	0° \mathfrak{S}		max. Earth dist.	10944 Apr 04 23:26	22° Υ 00'58	1.45531 AU
evening max el	10943 May 30 17:03	4° \mathfrak{S} 14'33	18°46'45		10944 Apr 10 02:11	0° \mathfrak{S}	
retrograde	10943 Jun 06 08:22	7° \mathfrak{S} 53'10		evening rise	10944 Apr 17 23:19	12° \mathfrak{S} 12'15	
evening set	10943 Jun 09 15:55	6° \mathfrak{S} 50'09			10944 Apr 29 14:36	0° Π	
inferior conj	10943 Jun 15 05:59	1° \mathfrak{S} 10'06	3°10'18	greatest brilliancy	10944 May 01 06:30	2° Π 28'54	-0.7m
minimum elong	10943 Jun 15 07:10	1° \mathfrak{S} 06'24	3°09'34	asc. node	10944 May 12 20:31	17° Π 47'14	
	10943 Jun 16 04:26	30° \mathfrak{K} Π		evening max el	10944 May 13 00:13	17° Π 56'36	19°33'28
min. Earth dist.	10943 Jun 17 02:06	28° Π 53'08	0.65795 AU	retrograde	10944 May 20 05:57	22° Π 02'43	
morning rise	10943 Jun 20 21:41	24° Π 49'15		evening set	10944 May 23 22:11	20° Π 43'52	
direct	10943 Jun 27 07:48	22° Π 05'34		inferior conj	10944 May 29 07:13	14° Π 49'12	3°17'09
desc. node	10943 Jun 29 17:26	22° Π 25'32		minimum elong	10944 May 29 07:15	14° Π 49'06	3°16'34
morning max el	10943 Jul 10 11:39	29° Π 53'58	26°45'26	min. Earth dist.	10944 May 30 12:25	13° Π 12'32	0.67197 AU
	10943 Jul 10 14:02	0° \mathfrak{S}		morning rise	10944 Jun 03 15:56	8° Π 28'27	
	10943 Aug 01 19:32	0° Ω		direct	10944 Jun 09 16:05	5° Π 49'30	
morning set	10943 Aug 15 07:17	23° Ω 37'06		desc. node	10944 Jun 15 14:29	7° Π 51'09	
	10943 Aug 18 14:14	0° \mathfrak{M}		morning max el	10944 Jun 21 21:57	13° Π 09'32	25°31'17
max. Earth dist.	10943 Aug 19 10:55	1° \mathfrak{M} 42'48	1.34173 AU		10944 Jul 05 12:34	0° \mathfrak{S}	
asc. node	10943 Aug 22 23:12	8° \mathfrak{M} 51'01			10944 Jul 24 13:39	0° Ω	
				morning set	10944 Jul 27 23:02	6° Ω 01'59	
superior conj	10943 Aug 24 00:38	11° \mathfrak{M} 02'59	0°10'23	max. Earth dist.	10944 Jul 31 15:01	12° Ω 48'47	1.36056 AU
minimum elong	10943 Aug 24 00:06	11° \mathfrak{M} 00'09	0°10'02				
behind sun begin	10943 Aug 23 19:33	10° \mathfrak{M} 36'32		superior conj	10944 Aug 06 16:00	24° Ω 33'42	-0°20'54
behind sun end	10943 Aug 24 04:38	11° \mathfrak{M} 23'49		minimum elong	10944 Aug 06 17:18	24° Ω 40'12	0°21'01
evening rise	10943 Aug 31 10:06	26° \mathfrak{M} 38'24		asc. node	10944 Aug 08 20:01	28° Ω 55'47	
	10943 Sep 02 00:50	0° \mathfrak{L}			10944 Aug 09 08:39	0° \mathfrak{M}	
evening max el	10943 Sep 20 02:40	28° \mathfrak{L} 59'24	21°18'54	evening rise	10944 Aug 14 16:28	10° \mathfrak{M} 54'13	
	10943 Sep 21 04:19	0° \mathfrak{M}			10944 Aug 24 20:05	0° \mathfrak{L}	
desc. node	10943 Sep 25 15:13	3° \mathfrak{M} 13'12		evening max el	10944 Sep 01 07:50	9° \mathfrak{L} 53'29	19°59'15
retrograde	10943 Oct 02 03:32	4° \mathfrak{M} 57'55		retrograde	10944 Sep 11 17:37	15° \mathfrak{L} 03'53	
evening set	10943 Oct 04 17:14	4° \mathfrak{M} 42'38		desc. node	10944 Sep 11 12:29	15° \mathfrak{L} 03'45	
inferior conj	10943 Oct 13 19:14	0° \mathfrak{M} 47'15	-4°57'36	evening set	10944 Sep 13 15:38	14° \mathfrak{L} 54'07	
minimum elong	10943 Oct 13 09:56	1° \mathfrak{M} 00'16	4°55'16	inferior conj	10944 Sep 22 14:59	10° \mathfrak{L} 54'06	-3°21'46
min. Earth dist.	10943 Oct 14 02:05	0° \mathfrak{M} 37'37	0.54600 AU	minimum elong	10944 Sep 22 06:15	11° \mathfrak{L} 07'17	3°18'42
	10943 Oct 15 05:03	30° \mathfrak{K} \mathfrak{L}		min. Earth dist.	10944 Sep 24 11:14	9° \mathfrak{L} 47'20	0.55035 AU
morning rise	10943 Oct 22 03:20	26° \mathfrak{L} 56'43		morning rise	10944 Sep 30 19:35	6° \mathfrak{L} 41'21	
direct	10943 Oct 25 23:45	26° \mathfrak{L} 24'45		direct	10944 Oct 05 11:10	5° \mathfrak{L} 54'19	
	10943 Nov 04 17:08	0° \mathfrak{M}		morning max el	10944 Oct 19 03:39	12° \mathfrak{L} 38'07	24°18'39
morning max el	10943 Nov 07 16:04	2° \mathfrak{M} 28'07	22°30'55		10944 Nov 01 10:18	0° \mathfrak{M}	
asc. node	10943 Nov 18 23:52	17° \mathfrak{M} 15'24		asc. node	10944 Nov 04 20:46	5° \mathfrak{M} 58'22	
	10943 Nov 25 22:08	0° \mathfrak{X}		morning set	10944 Nov 13 04:30	22° \mathfrak{M} 34'29	
morning set	10943 Nov 29 16:39	7° \mathfrak{X} 46'46			10944 Nov 16 14:44	0° \mathfrak{X}	
superior conj	10943 Dec 06 17:19	22° \mathfrak{X} 48'44	1°37'09	superior conj	10944 Nov 20 00:49	7° \mathfrak{X} 29'18	1°39'33
minimum elong	10943 Dec 06 18:20	22° \mathfrak{X} 54'11	1°37'43	minimum elong	10944 Nov 20 00:40	7° \mathfrak{X} 28'29	1°40'06
max. Earth dist.	10943 Dec 10 05:46	0° \mathfrak{Z} 11'28	1.33995 AU	max. Earth dist.	10944 Nov 22 05:27	12° \mathfrak{X} 14'44	1.32661 AU
	10943 Dec 10 03:32	0° \mathfrak{Z}		evening rise	10944 Nov 27 10:56	23° \mathfrak{X} 11'56	
evening rise	10943 Dec 14 18:33	9° \mathfrak{Z} 17'30			10944 Nov 30 21:25	0° \mathfrak{Z}	
desc. node	10943 Dec 22 13:22	23° \mathfrak{Z} 39'04		desc. node	10944 Dec 08 10:22	13° \mathfrak{Z} 40'20	
	10943 Dec 26 07:26	0° \mathfrak{A}			10944 Dec 18 23:59	0° \mathfrak{A}	
	10944 Jan 17 11:55	0° \mathfrak{X}		evening max el	10944 Dec 31 01:50	14° \mathfrak{A} 19'19	27°29'57
evening max el	10944 Jan 18 13:42	1° \mathfrak{X} 03'22	27°06'13	retrograde	10945 Jan 13 18:46	21° \mathfrak{A} 41'02	
retrograde	10944 Jan 31 22:43	8° \mathfrak{X} 26'09		evening set	10945 Jan 20 17:31	19° \mathfrak{A} 12'00	
evening set	10944 Feb 07 14:39	5° \mathfrak{X} 52'42		min. Earth dist.	10945 Jan 24 12:03	15° \mathfrak{A} 56'20	0.63612 AU
min. Earth dist.	10944 Feb 11 13:18	2° \mathfrak{X} 06'03	0.65358 AU	inferior conj	10945 Jan 27 04:04	13° \mathfrak{A} 13'55	-1°32'21
	10944 Feb 13 10:09	30° \mathfrak{K} \mathfrak{A}		minimum elong	10945 Jan 27 07:02	13° \mathfrak{A} 06'21	1°30'39
inferior conj	10944 Feb 13 18:07	29° \mathfrak{A} 37'29	-0°23'34	asc. node	10945 Jan 31 19:56	9° \mathfrak{A} 04'41	
minimum elong	10944 Feb 13 18:47	29° \mathfrak{A} 35'34	0°22'57	morning rise	10945 Feb 02 22:40	7° \mathfrak{A} 56'29	
asc. node	10944 Feb 14 22:44	28° \mathfrak{A} 17'58		direct	10945 Feb 05 08:16	7° \mathfrak{A} 28'18	
morning rise	10944 Feb 20 00:20	24° \mathfrak{A} 04'48		morning max el	10945 Feb 11 20:19	10° \mathfrak{A} 49'21	17°47'48
direct	10944 Feb 22 17:33	23° \mathfrak{A} 25'12			10945 Feb 24 21:30	0° \mathfrak{X}	
morning max el	10944 Feb 29 02:41	26° \mathfrak{A} 46'26	18°02'23	morning set	10945 Feb 28 07:44	5° \mathfrak{X} 52'13	
	10944 Mar 02 23:22	0° \mathfrak{X}		desc. node	10945 Mar 06 10:40	16° \mathfrak{X} 18'11	
morning set	10944 Mar 18 06:54	23° \mathfrak{X} 39'04					
desc. node	10944 Mar 19 13:57	25° \mathfrak{X} 46'03		superior conj	10945 Mar 12 23:08	27° \mathfrak{X} 07'13	-0°47'41
	10944 Mar 22 04:15	0° Υ		minimum elong	10945 Mar 12 18:05	26° \mathfrak{X} 46'32	0°46'52

	10945 Mar 14 17:40	0°♿		superior conj	10946 Feb 22 02:29	8°♿18'37	-0°06'06
max. Earth dist.	10945 Mar 18 18:19	6°♿27'33	1.44691 AU	minimum elong	10946 Feb 22 01:57	8°♿16'18	0°05'44
evening rise	10945 Mar 28 10:47	21°♿34'23		behind sun begin	10946 Feb 21 17:57	7°♿41'59	
	10945 Apr 02 23:41	0°♿		behind sun end	10946 Feb 22 09:57	8°♿50'33	
	10945 Apr 24 12:11	0°♿		max. Earth dist.	10946 Mar 01 09:18	20°♿29'06	1.43218 AU
evening max el	10945 Apr 26 01:45	1°♿40'00	20°34'55		10946 Mar 07 07:59	0°♿	
asc. node	10945 Apr 29 17:42	4°♿47'38		evening rise	10946 Mar 08 04:07	1°♿18'56	
retrograde	10945 May 04 04:46	6°♿23'28			10946 Mar 27 12:29	0°♿	
evening set	10945 May 08 06:28	4°♿48'44		evening max el	10946 Apr 08 21:49	15°♿24'19	21°47'53
	10945 May 12 14:11	30°♿		asc. node	10946 Apr 16 14:54	20°♿39'24	
inferior conj	10945 May 13 13:15	28°♿41'13	3°11'24	retrograde	10946 Apr 18 02:53	20°♿50'19	
minimum elong	10945 May 13 12:16	28°♿44'36	3°10'49	evening set	10946 Apr 22 14:57	19°♿00'13	
min. Earth dist.	10945 May 14 04:26	27°♿48'59	0.68137 AU	inferior conj	10946 Apr 27 21:51	12°♿42'06	2°54'49
morning rise	10945 May 18 17:50	22°♿23'17		minimum elong	10946 Apr 27 20:07	12°♿48'10	2°54'08
direct	10945 May 24 05:40	19°♿57'15		min. Earth dist.	10946 Apr 27 23:58	12°♿34'43	0.68614 AU
desc. node	10945 Jun 02 11:28	24°♿48'35		morning rise	10946 May 03 01:05	6°♿28'51	
morning max el	10945 Jun 04 07:42	26°♿35'10	24°04'26	direct	10946 May 07 23:41	4°♿21'08	
	10945 Jun 07 11:29	0°♿		morning max el	10946 May 17 18:39	10°♿08'00	22°34'43
	10945 Jun 29 02:30	0°♿		desc. node	10946 May 20 08:22	12°♿53'11	
morning set	10945 Jul 09 19:18	17°♿32'12			10946 Jun 02 10:13	0°♿	
max. Earth dist.	10945 Jul 13 12:46	24°♿03'50	1.38259 AU	morning set	10946 Jun 20 15:10	27°♿55'28	
	10945 Jul 16 19:28	0°♿			10946 Jun 21 21:29	0°♿	
				max. Earth dist.	10946 Jun 25 10:31	5°♿55'46	1.40552 AU
superior conj	10945 Jul 20 19:09	7°♿27'44	-0°54'16	superior conj	10946 Jul 03 05:58	19°♿35'42	-1°27'01
minimum elong	10945 Jul 20 22:49	7°♿45'09	0°54'09	minimum elong	10946 Jul 03 11:50	20°♿02'10	1°26'50
asc. node	10945 Jul 26 16:51	18°♿55'47			10946 Jul 08 21:45	0°♿	
evening rise	10945 Jul 29 16:42	24°♿50'08		evening rise	10946 Jul 13 07:29	8°♿17'50	
	10945 Aug 01 08:06	0°♿		asc. node	10946 Jul 13 13:43	8°♿47'15	
evening max el	10945 Aug 15 02:29	21°♿34'38	19°00'33		10946 Jul 25 22:29	0°♿	
retrograde	10945 Aug 23 21:24	25°♿57'37		evening max el	10946 Jul 29 07:34	3°♿58'40	18°23'05
evening set	10945 Aug 25 18:20	25°♿46'28		retrograde	10946 Aug 05 20:02	7°♿45'30	
desc. node	10945 Aug 29 09:48	24°♿27'38		evening set	10946 Aug 07 23:01	7°♿28'11	
inferior conj	10945 Sep 03 02:48	21°♿31'13	-1°28'11	inferior conj	10946 Aug 15 12:15	2°♿52'55	0°14'21
minimum elong	10945 Sep 02 23:00	21°♿37'50	1°26'50	minimum elong	10946 Aug 15 12:46	2°♿51'53	0°13'50
min. Earth dist.	10945 Sep 06 00:46	19°♿30'13	0.56350 AU	transit middle	10946 Aug 15 12:46	2°♿51'53	0°13'50
morning rise	10945 Sep 11 00:30	16°♿42'10		transit begin	10946 Aug 15 10:57	2°♿55'35	
direct	10945 Sep 16 11:17	15°♿32'14		transit end	10946 Aug 15 14:35	2°♿48'11	
morning max el	10945 Sep 30 16:17	22°♿49'37	25°58'22	desc. node	10946 Aug 16 07:06	2°♿14'25	
	10945 Oct 07 02:14	0°♿		min. Earth dist.	10946 Aug 18 20:29	0°♿10'58	0.58300 AU
asc. node	10945 Oct 22 17:36	25°♿10'43			10946 Aug 19 02:12	30°♿	
	10945 Oct 25 03:56	0°♿		morning rise	10946 Aug 22 22:58	27°♿27'39	
morning set	10945 Oct 28 15:35	7°♿16'25		direct	10946 Aug 29 02:16	25°♿48'52	
					10946 Sep 08 10:15	0°♿	
superior conj	10945 Nov 04 11:24	22°♿15'33	1°35'52	morning max el	10946 Sep 12 10:53	3°♿30'10	27°13'05
minimum elong	10945 Nov 04 10:13	22°♿09'03	1°36'15		10946 Oct 01 17:42	0°♿	
max. Earth dist.	10945 Nov 05 11:15	24°♿27'34	1.31796 AU	asc. node	10946 Oct 09 14:25	14°♿44'51	
	10945 Nov 07 23:51	0°♿		morning set	10946 Oct 13 00:17	21°♿48'16	
evening rise	10945 Nov 11 11:27	7°♿26'13			10946 Oct 16 19:07	0°♿	
	10945 Nov 23 08:34	0°♿		superior conj	10946 Oct 19 23:09	7°♿01'55	1°26'29
desc. node	10945 Nov 25 07:27	3°♿15'15		minimum elong	10946 Oct 19 21:15	6°♿51'19	1°26'36
evening max el	10945 Dec 13 10:16	26°♿59'29	27°22'54	max. Earth dist.	10946 Oct 19 20:09	6°♿45'15	1.31427 AU
	10945 Dec 16 22:35	0°♿		evening rise	10946 Oct 26 17:41	21°♿54'12	
retrograde	10945 Dec 27 07:25	4°♿15'35			10946 Oct 30 15:27	0°♿	
evening set	10946 Jan 03 07:22	1°♿59'53		desc. node	10946 Nov 12 04:35	22°♿13'32	
	10946 Jan 06 00:33	30°♿			10946 Nov 17 16:09	0°♿	
min. Earth dist.	10946 Jan 07 00:40	29°♿09'02	0.61605 AU	evening max el	10946 Nov 25 12:39	8°♿53'16	26°41'39
inferior conj	10946 Jan 10 01:31	26°♿25'09	-2°47'31	retrograde	10946 Dec 09 11:14	16°♿01'15	
minimum elong	10946 Jan 10 07:12	26°♿12'21	2°44'48	evening set	10946 Dec 16 04:14	14°♿08'40	
morning rise	10946 Jan 17 09:40	21°♿26'00		min. Earth dist.	10946 Dec 20 02:46	11°♿31'48	0.59478 AU
asc. node	10946 Jan 18 17:07	21°♿08'54		inferior conj	10946 Dec 23 06:59	9°♿02'02	-4°03'30
direct	10946 Jan 19 14:03	21°♿05'35		minimum elong	10946 Dec 23 14:49	8°♿46'37	4°00'29
morning max el	10946 Jan 26 12:53	24°♿36'19	17°51'09	morning rise	10946 Dec 31 04:08	4°♿23'46	
	10946 Jan 30 22:50	0°♿		direct	10947 Jan 02 06:53	4°♿07'31	
morning set	10946 Feb 11 05:22	19°♿03'52		asc. node	10947 Jan 05 14:15	4°♿49'20	
	10946 Feb 17 07:57	0°♿		morning max el	10947 Jan 10 00:49	7°♿57'22	18°13'46
desc. node	10946 Feb 21 07:23	6°♿56'32					

	10947 Jan 24 04:25	0°♊		morning set	10948 Jan 09 16:34	17°♊16'01	
morning set	10947 Jan 25 17:52	2°♊56'18			10948 Jan 16 04:08	0°♊	
superior conj	10947 Feb 04 05:12	20°♊35'15	0°30'18	superior conj	10948 Jan 18 02:52	3°♊44'48	0°59'01
minimum elong	10947 Feb 04 07:24	20°♊45'08	0°30'22	minimum elong	10948 Jan 18 05:55	3°♊59'18	0°59'08
desc. node	10947 Feb 08 04:08	27°♊37'36		max. Earth dist.	10948 Jan 25 02:41	16°♊39'20	1.39094 AU
	10947 Feb 09 12:53	0°♋		desc. node	10948 Jan 26 00:57	18°♊18'02	
max. Earth dist.	10947 Feb 11 19:37	3°♋54'12	1.41280 AU	evening rise	10948 Jan 28 23:16	23°♊23'26	
evening rise	10947 Feb 16 14:57	11°♋52'49			10948 Feb 01 21:53	0°♋	
	10947 Feb 28 06:41	0°♌			10948 Feb 22 02:48	0°♌	
evening max el	10947 Mar 22 13:50	29°♌11'02	23°07'23	evening max el	10948 Mar 04 03:50	13°♌01'08	24°27'18
	10947 Mar 23 09:51	0°♍		retrograde	10948 Mar 15 14:47	19°♌43'14	
retrograde	10947 Apr 01 22:36	5°♍18'23		asc. node	10948 Mar 20 09:26	17°♌59'23	
asc. node	10947 Apr 03 12:09	5°♍06'40		evening set	10948 Mar 21 02:16	17°♌25'48	
evening set	10947 Apr 06 22:03	3°♍13'49		min. Earth dist.	10948 Mar 25 16:37	12°♌10'57	0.68248 AU
	10947 Apr 09 22:01	30°♎♌		inferior conj	10948 Mar 26 14:55	10°♌56'16	1°52'23
inferior conj	10947 Apr 12 07:01	26°♌48'07	2°28'20	minimum elong	10948 Mar 26 12:48	11°♌03'20	1°51'39
minimum elong	10947 Apr 12 04:53	26°♌55'31	2°27'34	morning rise	10948 Mar 31 23:28	4°♌56'35	
min. Earth dist.	10947 Apr 11 20:46	27°♌23'34	0.68647 AU	direct	10948 Apr 04 20:01	3°♌31'37	
morning rise	10947 Apr 17 11:37	20°♌40'56		morning max el	10948 Apr 12 08:53	7°♌44'42	19°57'53
direct	10947 Apr 21 20:53	18°♌54'23		desc. node	10948 Apr 23 02:01	21°♌15'05	
morning max el	10947 Apr 30 10:05	23°♌50'00	21°10'30		10948 Apr 29 01:49	0°♍	
	10947 May 05 19:53	0°♍		morning set	10948 May 09 09:19	15°♍38'08	
desc. node	10947 May 07 05:13	1°♍46'17			10948 May 18 14:15	0°♎	
	10947 May 26 18:37	0°♎		max. Earth dist.	10948 May 20 01:00	2°♎17'53	1.44332 AU
morning set	10947 May 31 08:47	7°♎07'40		superior conj	10948 May 25 09:39	10°♎55'25	-2°11'13
max. Earth dist.	10947 Jun 07 13:57	18°♎40'53	1.42663 AU	minimum elong	10948 May 25 12:39	11°♎07'36	2°11'42
	10947 Jun 14 08:53	0°♏			10948 Jun 05 20:15	0°♏	
superior conj	10947 Jun 14 19:50	0°♏46'39	-1°54'44	evening rise	10948 Jun 07 15:22	3°♏04'00	
minimum elong	10947 Jun 15 02:13	1°♏13'58	1°54'49	asc. node	10948 Jun 16 07:39	17°♏43'51	
evening rise	10947 Jun 26 08:37	21°♏05'54			10948 Jun 25 03:46	0°♐	
asc. node	10947 Jun 30 10:39	28°♏24'59		evening max el	10948 Jun 25 08:43	0°♐12'23	18°07'19
	10947 Jul 01 08:09	0°♑		retrograde	10948 Jul 01 17:52	3°♐32'38	
evening max el	10947 Jul 12 18:54	16°♑54'25	18°05'42	evening set	10948 Jul 04 12:41	2°♐52'45	
retrograde	10947 Jul 19 12:13	20°♐20'24			10948 Jul 08 10:18	30°♑♏	
evening set	10947 Jul 21 23:07	19°♐53'08		inferior conj	10948 Jul 10 17:32	27°♏38'12	2°27'05
inferior conj	10947 Jul 28 18:23	14°♐57'25	1°33'08	minimum elong	10948 Jul 10 20:11	27°♏31'06	2°25'51
minimum elong	10947 Jul 28 20:52	14°♐51'31	1°31'52	min. Earth dist.	10948 Jul 13 12:21	24°♏40'05	0.62788 AU
min. Earth dist.	10947 Jul 31 23:52	11°♐56'00	0.60548 AU	morning rise	10948 Jul 17 01:50	21°♏27'42	
desc. node	10947 Aug 03 04:22	10°♐06'36		desc. node	10948 Jul 20 01:36	19°♏43'44	
morning rise	10947 Aug 04 15:49	9°♐04'25		direct	10948 Jul 23 18:49	18°♏58'34	
direct	10947 Aug 11 05:32	6°♐57'17		morning max el	10948 Aug 06 19:50	27°♏00'49	27°52'59
morning max el	10947 Aug 25 12:29	14°♐53'17	27°52'17		10948 Aug 09 15:21	0°♑	
	10947 Sep 06 18:21	0°♒			10948 Aug 30 10:44	0°♒	
	10947 Sep 24 05:07	0°♓		morning set	10948 Sep 10 02:52	20°♒00'38	
asc. node	10947 Sep 26 11:12	4°♓33'59		asc. node	10948 Sep 12 07:58	24°♒33'04	
morning set	10947 Sep 27 04:45	6°♓04'50			10948 Sep 14 21:57	0°♓	
max. Earth dist.	10947 Oct 03 04:39	18°♓59'01	1.31550 AU	max. Earth dist.	10948 Sep 15 08:54	0°♓58'36	1.32171 AU
superior conj	10947 Oct 04 10:13	21°♓42'28	1°11'40	superior conj	10948 Sep 17 18:44	6°♓11'40	0°51'38
minimum elong	10947 Oct 04 07:59	21°♓30'04	1°11'30	minimum elong	10948 Sep 17 16:40	6°♓00'24	0°51'16
	10947 Oct 08 04:00	0°♔		evening rise	10948 Sep 24 14:48	21°♓07'01	
evening rise	10947 Oct 11 03:27	6°♔29'41			10948 Sep 28 20:58	0°♔	
	10947 Oct 23 07:03	0°♕		desc. node	10948 Oct 15 23:05	27°♔18'04	
desc. node	10947 Oct 30 01:49	10°♕21'02			10948 Oct 18 12:22	0°♕	
evening max el	10947 Nov 07 07:03	19°♕55'38	25°28'19	evening max el	10948 Oct 18 18:32	0°♕14'59	23°52'59
retrograde	10947 Nov 21 04:07	26°♕54'44		retrograde	10948 Nov 01 08:29	7°♕02'08	
evening set	10947 Nov 27 03:30	25°♕32'55		evening set	10948 Nov 06 02:21	6°♕12'58	
min. Earth dist.	10947 Dec 01 19:18	22°♕54'32	0.57442 AU	min. Earth dist.	10948 Nov 12 04:58	3°♕14'17	0.55775 AU
inferior conj	10947 Dec 04 17:14	20°♕55'21	-5°09'01	inferior conj	10948 Nov 14 06:59	1°♕59'06	-5°45'32
minimum elong	10947 Dec 05 00:39	20°♕42'41	5°06'59	minimum elong	10948 Nov 14 09:07	1°♕55'53	5°44'56
morning rise	10947 Dec 13 00:06	16°♕39'27			10948 Nov 17 18:00	30°♕♔	
direct	10947 Dec 15 06:43	16°♕23'47		morning rise	10948 Nov 22 17:50	28°♔03'18	
asc. node	10947 Dec 23 11:20	20°♕02'32		direct	10948 Nov 25 11:06	27°♔44'37	
morning max el	10947 Dec 24 04:16	20°♕41'51	18°57'32		10948 Dec 02 11:56	0°♕	
	10947 Dec 31 07:09	0°♖		morning max el	10948 Dec 05 19:36	2°♕39'22	20°04'00

asc. node	10948 Dec 09 08:23	6° X 33'56		asc. node	10949 Nov 26 05:22	24° M 07'38	
	10948 Dec 22 23:51	0° Z			10949 Nov 29 19:00	0° X	
morning set	10948 Dec 23 21:55	1° Z 52'00		morning set	10949 Dec 08 07:22	16° X 37'06	
					10949 Dec 14 15:37	0° Z	
superior conj	10948 Dec 31 14:37	17° Z 33'03	1°19'43	superior conj	10949 Dec 15 12:27	1° Z 48'54	1°32'48
minimum elong	10948 Dec 31 17:18	17° Z 46'27	1°20'02	minimum elong	10949 Dec 15 14:09	1° Z 57'46	1°33'18
max. Earth dist.	10949 Jan 06 09:28	28° Z 49'02	1.36908 AU	max. Earth dist.	10949 Dec 19 20:37	10° Z 41'38	1.34950 AU
	10949 Jan 07 00:34	0° \approx		evening rise	10949 Dec 24 00:53	18° Z 50'30	
evening rise	10949 Jan 10 03:40	5° \approx 45'18		desc. node	10949 Dec 29 18:44	29° Z 19'51	
desc. node	10949 Jan 11 21:48	8° \approx 53'27			10949 Dec 30 03:54	0° \approx	
	10949 Jan 24 19:33	0° X			10950 Jan 18 23:00	0° X	
evening max el	10949 Feb 14 17:09	26° X 50'52	25°40'51	evening max el	10950 Jan 28 06:33	10° X 35'01	26°40'45
	10949 Feb 18 05:55	0° Y		retrograde	10950 Feb 10 08:48	17° X 55'53	
retrograde	10949 Feb 27 02:25	3° Y 58'02		evening set	10950 Feb 16 19:18	15° X 22'43	
evening set	10949 Mar 05 01:57	1° Y 30'30		min. Earth dist.	10950 Feb 20 20:44	11° X 17'10	0.66216 AU
	10949 Mar 06 16:23	30° R X		asc. node	10950 Feb 22 04:00	9° X 44'55	
asc. node	10949 Mar 07 06:43	29° X 21'31		inferior conj	10950 Feb 22 18:55	9° X 00'29	0°12'11
min. Earth dist.	10949 Mar 09 09:19	26° X 50'45	0.67428 AU	minimum elong	10950 Feb 22 18:35	9° X 01'30	0°12'18
inferior conj	10949 Mar 10 19:35	25° X 01'48	1°07'00	transit middle	10950 Feb 22 18:35	9° X 01'30	0°12'18
minimum elong	10949 Mar 10 18:02	25° X 06'43	1°06'32	transit begin	10950 Feb 22 16:42	9° X 07'04	
morning rise	10949 Mar 16 10:39	19° X 11'07		transit end	10950 Feb 22 20:28	8° X 55'55	
direct	10949 Mar 19 19:24	18° X 06'17		morning rise	10950 Feb 28 18:58	3° X 20'41	
morning max el	10949 Mar 26 15:28	21° X 49'33	19°00'06	direct	10950 Mar 03 17:18	2° X 33'01	
	10949 Apr 02 08:34	0° Y		morning max el	10950 Mar 10 04:22	5° X 59'13	18°18'35
greatest brilliancy	10949 Apr 09 02:54	9° Y 53'57	-0.8m		10950 Mar 26 22:54	0° Y	
desc. node	10949 Apr 09 22:47	11° Y 09'23		desc. node	10950 Mar 27 19:29	1° Y 22'16	
morning set	10949 Apr 18 14:14	24° Y 28'30		morning set	10950 Mar 29 19:01	4° Y 32'14	
	10949 Apr 22 03:39	0° Z					
max. Earth dist.	10949 May 02 17:29	16° Z 29'44	1.45369 AU	superior conj	10950 Apr 14 08:01	29° Y 07'02	-1°48'35
				minimum elong	10950 Apr 13 22:44	28° Y 30'40	1°48'03
superior conj	10949 May 05 01:39	20° Z 10'31	-2°10'01		10950 Apr 14 21:34	0° Z	
minimum elong	10949 May 04 21:24	19° Z 53'46	2°10'19	max. Earth dist.	10950 Apr 15 12:37	0° Z 58'50	1.45681 AU
	10949 May 11 06:20	0° II		evening rise	10950 Apr 30 07:25	24° Z 04'47	
evening rise	10949 May 19 23:17	14° II 03'09			10950 May 04 02:09	0° II	
	10949 May 29 19:52	0° III		greatest brilliancy	10950 May 10 23:35	10° II 42'13	-0.8m
asc. node	10949 Jun 03 04:42	6° III 36'59		asc. node	10950 May 21 01:48	24° II 55'31	
evening max el	10949 Jun 08 21:47	13° III 44'17	18°27'16	evening max el	10950 May 23 07:36	27° II 23'45	19°04'40
retrograde	10949 Jun 15 08:28	17° III 12'49			10950 May 26 11:09	0° III	
evening set	10949 Jun 18 11:13	16° III 18'38		retrograde	10950 May 30 04:19	1° III 13'06	
inferior conj	10949 Jun 24 05:37	10° III 47'17	2°59'38	evening set	10950 Jun 02 15:23	0° III 03'34	
minimum elong	10949 Jun 24 07:27	10° III 41'50	2°58'44		10950 Jun 02 17:30	30° R II	
min. Earth dist.	10949 Jun 26 10:18	8° III 11'16	0.64795 AU	inferior conj	10950 Jun 08 02:56	24° II 17'06	3°14'53
morning rise	10949 Jun 30 02:37	4° III 28'06		minimum elong	10950 Jun 08 03:37	24° II 14'53	3°14'14
direct	10949 Jul 06 16:32	1° III 46'38		min. Earth dist.	10950 Jun 09 16:41	22° II 16'13	0.66440 AU
desc. node	10949 Jul 06 22:46	1° III 46'52		morning rise	10950 Jun 13 15:17	17° II 55'34	
morning max el	10949 Jul 20 06:17	9° III 44'39	27°18'31	direct	10950 Jun 19 21:28	15° II 12'36	
	10949 Aug 05 03:26	0° IV		desc. node	10950 Jun 23 19:51	16° II 06'16	
	10949 Aug 22 20:40	0° V		morning max el	10950 Jul 02 17:05	22° II 51'44	26°16'05
morning set	10949 Aug 24 16:04	3° V 29'04			10950 Jul 09 00:12	0° III	
max. Earth dist.	10949 Aug 29 05:06	12° V 35'29	1.33295 AU		10950 Jul 29 10:50	0° IV	
asc. node	10949 Aug 30 04:45	14° V 37'44		morning set	10950 Aug 07 16:49	16° IV 20'19	
				max. Earth dist.	10950 Aug 11 14:39	23° IV 47'43	1.34918 AU
superior conj	10949 Sep 01 22:37	20° V 23'54	0°26'44		10950 Aug 14 17:48	0° V	
minimum elong	10949 Sep 01 21:19	20° V 17'02	0°26'19				
	10949 Sep 06 10:06	0° VI		superior conj	10950 Aug 16 19:22	4° V 11'48	-0°02'31
evening rise	10949 Sep 09 01:52	5° VI 40'52		minimum elong	10950 Aug 16 19:32	4° V 12'37	0°02'48
	10949 Sep 22 01:10	0° VII		behind sun begin	10950 Aug 16 13:38	3° V 42'28	
evening max el	10949 Sep 30 06:22	10° VII 21'43	22°12'33	behind sun end	10950 Aug 17 01:25	4° V 42'50	
desc. node	10949 Oct 02 20:22	12° VII 39'11		asc. node	10950 Aug 17 01:31	4° V 43'21	
retrograde	10949 Oct 13 01:32	16° VII 43'58		evening rise	10950 Aug 24 10:34	20° V 04'41	
evening set	10949 Oct 16 07:55	16° VII 20'18			10950 Aug 29 08:32	0° VI	
min. Earth dist.	10949 Oct 24 12:11	12° VII 43'38	0.54773 AU	evening max el	10950 Sep 12 03:48	20° VI 51'56	20°42'37
inferior conj	10949 Oct 25 04:22	12° VII 20'52	-5°32'01	desc. node	10950 Sep 19 17:41	25° VI 53'38	
minimum elong	10949 Oct 24 22:13	12° VII 29'31	5°30'51	retrograde	10950 Sep 23 13:07	26° VI 30'56	
morning rise	10949 Nov 02 14:03	8° VII 33'50		evening set	10950 Sep 25 17:41	26° VI 19'17	
direct	10949 Nov 05 23:23	8° VII 08'15		inferior conj	10950 Oct 04 20:30	22° VI 23'41	-4°21'20
morning max el	10949 Nov 17 21:19	13° VII 46'20	21°32'20				

minimum elong	10950 Oct 04 10:33	22° Ω 37'57	4°18'22	evening set	10951 Sep 06 03:46	6° Ω 45'38	
min. Earth dist.	10950 Oct 05 20:14	21° Ω 49'37	0.54666 AU	desc. node	10951 Sep 06 14:59	6° Ω 40'13	
morning rise	10950 Oct 13 03:16	18° Ω 25'41		inferior conj	10951 Sep 14 21:54	2° Ω 40'28	-2°33'44
direct	10950 Oct 17 07:37	17° Ω 48'08		minimum elong	10951 Sep 14 15:04	2° Ω 51'20	2°31'13
morning max el	10950 Oct 30 12:04	24° Ω 10'12	23°16'29	min. Earth dist.	10951 Sep 17 07:06	1° Ω 09'34	0.55508 AU
	10950 Nov 04 18:57	0° \mathbb{M}			10951 Sep 19 05:45	30° \mathbb{R} \mathbb{M}	
asc. node	10950 Nov 13 02:17	12° \mathbb{M} 28'25		morning rise	10951 Sep 23 00:06	28° \mathbb{M} 13'14	
	10950 Nov 22 02:49	0° \mathbb{X}		direct	10951 Sep 28 00:19	27° \mathbb{M} 17'04	
morning set	10950 Nov 22 18:49	1° \mathbb{X} 24'42			10951 Oct 06 13:04	0° Ω	
				morning max el	10951 Oct 11 23:00	4° Ω 16'09	25°02'57
superior conj	10950 Nov 29 17:09	16° \mathbb{X} 22'18	1°38'56		10951 Oct 30 04:54	0° \mathbb{M}	
minimum elong	10950 Nov 29 17:40	16° \mathbb{X} 25'04	1°39'30	asc. node	10951 Oct 30 23:08	1° \mathbb{M} 24'44	
max. Earth dist.	10950 Dec 02 15:28	22° \mathbb{X} 36'47	1.33370 AU	morning set	10951 Nov 07 06:32	16° \mathbb{M} 10'05	
	10950 Dec 06 05:25	0° \mathbb{Z}			10951 Nov 13 14:16	0° \mathbb{X}	
evening rise	10950 Dec 07 11:15	2° \mathbb{Z} 29'16					
desc. node	10950 Dec 16 15:42	19° \mathbb{Z} 31'46		superior conj	10951 Nov 14 02:13	1° \mathbb{X} 05'46	1°38'42
	10950 Dec 23 00:56	0° \approx		minimum elong	10951 Nov 14 01:36	1° \mathbb{X} 02'23	1°39'11
evening max el	10951 Jan 10 19:39	24° \approx 04'37	27°19'47	max. Earth dist.	10951 Nov 15 18:03	4° \mathbb{X} 44'04	1.32241 AU
	10951 Jan 18 18:11	0° \mathbb{H}		evening rise	10951 Nov 21 07:28	16° \mathbb{X} 33'06	
retrograde	10951 Jan 24 09:00	1° \mathbb{H} 28'29			10951 Nov 28 04:48	0° \mathbb{Z}	
	10951 Jan 29 13:40	30° \mathbb{R} \approx		desc. node	10951 Dec 03 12:44	9° \mathbb{Z} 22'38	
evening set	10951 Jan 31 04:11	28° \approx 55'59			10951 Dec 17 17:40	0° \approx	
min. Earth dist.	10951 Feb 04 00:51	25° \approx 22'49	0.64645 AU	evening max el	10951 Dec 24 06:45	7° \approx 07'25	27°31'05
inferior conj	10951 Feb 06 10:34	22° \approx 46'54	-0°51'49	retrograde	10952 Jan 07 02:01	14° \approx 26'41	
minimum elong	10951 Feb 06 12:08	22° \approx 42'38	0°50'45	evening set	10952 Jan 14 01:54	12° \approx 02'36	
asc. node	10951 Feb 09 01:14	20° \approx 05'35		min. Earth dist.	10952 Jan 17 19:36	8° \approx 58'07	0.62779 AU
morning rise	10951 Feb 12 21:50	17° \approx 20'17		inferior conj	10952 Jan 20 15:38	6° \approx 13'40	-2°03'45
direct	10951 Feb 15 11:26	16° \approx 46'09		minimum elong	10952 Jan 20 19:44	6° \approx 03'44	2°01'34
morning max el	10951 Feb 21 21:04	20° \approx 06'27	17°54'01	asc. node	10952 Jan 26 22:27	1° \approx 20'49	
	10951 Mar 01 09:47	0° \mathbb{H}		morning rise	10952 Jan 27 15:53	1° \approx 03'18	
morning set	10951 Mar 11 04:57	16° \mathbb{H} 02'03		direct	10952 Jan 29 22:56	0° \approx 38'50	
desc. node	10951 Mar 14 16:12	21° \mathbb{H} 48'30		morning max el	10952 Feb 05 14:35	4° \approx 03'02	17°46'56
	10951 Mar 19 15:45	0° \mathbb{Y}		morning set	10952 Feb 21 15:29	28° \approx 42'35	
					10952 Feb 22 09:09	0° \mathbb{H}	
superior conj	10951 Mar 24 23:05	8° \mathbb{Y} 33'42	-1°11'56	desc. node	10952 Feb 29 12:54	12° \mathbb{H} 23'24	
minimum elong	10951 Mar 24 15:21	8° \mathbb{Y} 02'47	1°10'59				
max. Earth dist.	10951 Mar 29 08:04	15° \mathbb{Y} 30'00	1.45251 AU	superior conj	10952 Mar 04 11:56	19° \mathbb{H} 03'33	-0°29'39
	10951 Apr 07 15:41	0° \mathbb{B}		minimum elong	10952 Mar 04 08:57	18° \mathbb{H} 51'06	0°29'01
evening rise	10951 Apr 09 22:29	3° \mathbb{B} 30'39		max. Earth dist.	10952 Mar 11 01:41	29° \mathbb{H} 48'03	1.44133 AU
greatest brilliancy	10951 Apr 24 18:22	25° \mathbb{B} 51'31	-0.6m		10952 Mar 11 04:39	0° \mathbb{Y}	
	10951 Apr 27 15:38	0° \mathbb{I}		evening rise	10952 Mar 19 10:38	12° \mathbb{Y} 58'02	
evening max el	10951 May 06 12:29	11° \mathbb{I} 06'53	19°58'04		10952 Mar 30 17:47	0° \mathbb{B}	
asc. node	10951 May 07 22:58	12° \mathbb{I} 28'32		evening max el	10952 Apr 18 11:43	24° \mathbb{B} 50'53	21°04'54
retrograde	10951 May 14 02:38	15° \mathbb{I} 27'56		asc. node	10952 Apr 23 20:11	29° \mathbb{B} 01'41	
evening set	10951 May 17 22:44	14° \mathbb{I} 02'30		retrograde	10952 Apr 27 01:14	29° \mathbb{B} 51'35	
inferior conj	10951 May 23 06:31	8° \mathbb{I} 02'22	3°16'06	evening set	10952 May 01 07:18	28° \mathbb{B} 10'13	
minimum elong	10951 May 23 06:05	8° \mathbb{I} 03'49	3°15'33	inferior conj	10952 May 06 13:53	21° \mathbb{B} 58'08	3°05'36
min. Earth dist.	10951 May 24 05:44	6° \mathbb{I} 44'03	0.67650 AU	minimum elong	10952 May 06 12:32	22° \mathbb{B} 02'47	3°04'59
morning rise	10951 May 28 13:06	1° \mathbb{I} 42'31		min. Earth dist.	10952 May 06 23:25	21° \mathbb{B} 25'03	0.68398 AU
	10951 May 30 22:26	30° \mathbb{R} \mathbb{B}		morning rise	10952 May 11 17:34	15° \mathbb{B} 42'14	
direct	10951 Jun 03 08:20	29° \mathbb{B} 07'52		direct	10952 May 16 23:57	13° \mathbb{B} 23'21	
	10951 Jun 07 01:09	0° \mathbb{I}		morning max el	10952 May 27 12:36	19° \mathbb{B} 39'29	23°26'07
desc. node	10951 Jun 10 16:51	2° \mathbb{I} 14'15		desc. node	10952 May 27 13:48	19° \mathbb{B} 42'30	
morning max el	10951 Jun 15 02:53	6° \mathbb{I} 11'48	24°55'17		10952 Jun 05 07:04	0° \mathbb{I}	
	10951 Jul 03 13:26	0° \mathbb{E}			10952 Jun 25 17:27	0° \mathbb{E}	
morning set	10951 Jul 21 00:55	28° \mathbb{E} 23'48		morning set	10952 Jul 01 11:17	9° \mathbb{E} 26'12	
	10951 Jul 21 22:31	0° Ω		max. Earth dist.	10952 Jul 05 12:01	16° \mathbb{E} 20'24	1.39244 AU
max. Earth dist.	10951 Jul 24 14:57	4° Ω 52'18	1.36965 AU				
				superior conj	10952 Jul 13 02:48	0° Ω 04'11	-1°08'26
superior conj	10951 Jul 31 06:02	17° Ω 28'28	-0°34'54	minimum elong	10952 Jul 13 07:29	0° Ω 25'57	1°08'16
minimum elong	10951 Jul 31 08:17	17° Ω 39'31	0°34'56		10952 Jul 13 01:54	0° Ω	
asc. node	10951 Aug 03 22:20	24° Ω 46'39		asc. node	10952 Jul 20 19:11	14° Ω 43'29	
	10951 Aug 06 12:31	0° \mathbb{M}		evening rise	10952 Jul 22 11:18	17° Ω 57'49	
evening rise	10951 Aug 08 14:40	4° \mathbb{M} 12'56			10952 Jul 28 20:39	0° \mathbb{M}	
	10951 Aug 23 16:33	0° Ω		evening max el	10952 Aug 07 14:39	14° \mathbb{M} 07'04	18°42'04
evening max el	10951 Aug 25 15:04	2° Ω 06'43	19°31'40	retrograde	10952 Aug 15 19:05	18° \mathbb{M} 12'49	
retrograde	10951 Sep 04 07:26	6° Ω 55'22		evening set	10952 Aug 17 18:18	17° \mathbb{M} 59'27	

desc. node	10952 Aug 23 12:16	15° \mathbb{M} 13'14		retrograde	10953 Jul 29 01:51	0° \mathbb{M} 21'34	
inferior conj	10952 Aug 25 18:40	13° \mathbb{M} 35'37	-0°42'16	evening set	10953 Jul 31 08:04	0° \mathbb{M} 00'28	
minimum elong	10952 Aug 25 16:57	13° \mathbb{M} 38'49	0°41'48		10953 Jul 31 08:39	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	10952 Aug 28 22:44	11° \mathbb{M} 15'19	0.57126 AU	inferior conj	10953 Aug 07 13:16	25° \mathbb{Q} 16'05	0°50'55
morning rise	10952 Sep 02 12:12	8° \mathbb{M} 30'53		minimum elong	10953 Aug 07 14:54	25° \mathbb{Q} 12'32	0°49'56
direct	10952 Sep 08 06:37	7° \mathbb{M} 09'16		desc. node	10953 Aug 10 09:35	22° \mathbb{Q} 47'52	
morning max el	10952 Sep 22 13:41	14° \mathbb{M} 36'56	26°34'01	min. Earth dist.	10953 Aug 10 21:27	22° \mathbb{Q} 23'08	0.59232 AU
	10952 Oct 04 21:35	0° \mathbb{L}		morning rise	10953 Aug 14 18:26	19° \mathbb{Q} 37'32	
asc. node	10952 Oct 16 19:57	20° \mathbb{L} 47'29		direct	10953 Aug 21 02:45	17° \mathbb{Q} 46'36	
	10952 Oct 21 07:42	0° \mathbb{M}		morning max el	10953 Sep 04 11:33	25° \mathbb{Q} 35'17	27°34'37
morning set	10952 Oct 21 16:52	0° \mathbb{M} 48'47			10953 Sep 08 14:04	0° \mathbb{M}	
					10953 Sep 28 07:39	0° \mathbb{L}	
superior conj	10952 Oct 28 13:33	15° \mathbb{M} 53'03	1°32'34	asc. node	10953 Oct 03 16:44	10° \mathbb{L} 28'45	
minimum elong	10952 Oct 28 12:02	15° \mathbb{M} 44'34	1°32'51	morning set	10953 Oct 06 00:01	15° \mathbb{L} 15'05	
max. Earth dist.	10952 Oct 29 01:54	17° \mathbb{M} 01'40	1.31585 AU	max. Earth dist.	10953 Oct 12 11:15	29° \mathbb{L} 19'47	1.31417 AU
evening rise	10952 Nov 04 10:46	0° \mathbb{X} 54'36			10953 Oct 12 18:29	0° \mathbb{M}	
	10952 Nov 04 00:27	0° \mathbb{X}					
desc. node	10952 Nov 19 09:51	28° \mathbb{X} 43'53		superior conj	10953 Oct 13 01:14	0° \mathbb{M} 37'35	1°20'51
	10952 Nov 20 05:08	0° \mathbb{Z}		minimum elong	10953 Oct 12 23:08	0° \mathbb{M} 25'54	1°20'51
evening max el	10952 Dec 05 13:10	19° \mathbb{Z} 30'09	27°09'33	evening rise	10953 Oct 19 18:44	15° \mathbb{M} 26'24	
retrograde	10952 Dec 19 10:48	26° \mathbb{Z} 42'00			10953 Oct 26 23:10	0° \mathbb{X}	
evening set	10952 Dec 26 09:07	24° \mathbb{Z} 35'03		desc. node	10953 Nov 06 07:02	17° \mathbb{X} 22'54	
min. Earth dist.	10952 Dec 30 03:40	21° \mathbb{Z} 51'53	0.60709 AU		10953 Nov 16 10:50	0° \mathbb{Z}	
inferior conj	10953 Jan 02 06:49	19° \mathbb{Z} 12'14	-3°20'07	evening max el	10953 Nov 17 12:05	1° \mathbb{Z} 01'30	26°13'54
minimum elong	10953 Jan 02 13:33	18° \mathbb{Z} 57'52	3°17'09	retrograde	10953 Dec 01 10:12	8° \mathbb{Z} 06'08	
morning rise	10953 Jan 09 20:40	14° \mathbb{Z} 21'31		evening set	10953 Dec 07 21:25	6° \mathbb{Z} 25'31	
direct	10953 Jan 11 23:59	14° \mathbb{Z} 03'10		min. Earth dist.	10953 Dec 12 01:13	3° \mathbb{Z} 50'29	0.58590 AU
asc. node	10953 Jan 12 19:37	14° \mathbb{Z} 05'57		inferior conj	10953 Dec 15 04:26	1° \mathbb{Z} 31'32	-4°33'26
morning max el	10953 Jan 19 05:40	17° \mathbb{Z} 40'35	17°58'19	minimum elong	10953 Dec 15 12:34	1° \mathbb{Z} 16'29	4°30'42
	10953 Jan 28 00:38	0° \mathbb{Z}			10953 Dec 17 07:13	30° \mathbb{R} \mathbb{X}	
morning set	10953 Feb 03 20:11	12° \mathbb{Z} 14'13		morning rise	10953 Dec 23 06:22	27° \mathbb{X} 03'08	
	10953 Feb 13 15:38	0° \mathbb{H}		direct	10953 Dec 25 10:02	26° \mathbb{X} 47'34	
				asc. node	10953 Dec 30 16:45	28° \mathbb{X} 27'21	
superior conj	10953 Feb 14 01:46	0° \mathbb{H} 44'31	0°10'12		10954 Jan 01 17:50	0° \mathbb{Z}	
minimum elong	10953 Feb 14 02:38	0° \mathbb{H} 48'21	0°10'24	morning max el	10954 Jan 02 14:33	0° \mathbb{Z} 47'52	18°29'43
behind sun begin	10953 Feb 13 20:29	0° \mathbb{H} 21'20		morning set	10954 Jan 18 13:30	26° \mathbb{Z} 19'37	
behind sun end	10953 Feb 14 08:48	1° \mathbb{H} 15'20			10954 Jan 20 11:16	0° \mathbb{Z}	
desc. node	10953 Feb 15 09:39	3° \mathbb{H} 03'34					
max. Earth dist.	10953 Feb 21 15:22	13° \mathbb{H} 37'56	1.42443 AU	superior conj	10954 Jan 27 13:13	13° \mathbb{Z} 25'48	0°43'26
evening rise	10953 Feb 27 10:34	23° \mathbb{H} 01'55		minimum elong	10954 Jan 27 15:58	13° \mathbb{Z} 38'29	0°43'30
	10953 Mar 03 21:27	0° \mathbb{Y}		desc. node	10954 Feb 02 06:26	23° \mathbb{Z} 44'48	
	10953 Mar 24 20:26	0° \mathbb{B}		max. Earth dist.	10954 Feb 03 23:58	26° \mathbb{Z} 45'46	1.40366 AU
evening max el	10953 Apr 01 05:52	8° \mathbb{B} 35'54	22°21'10		10954 Feb 05 21:20	0° \mathbb{H}	
retrograde	10953 Apr 10 22:27	14° \mathbb{B} 19'35		evening rise	10954 Feb 08 06:25	3° \mathbb{H} 59'36	
asc. node	10953 Apr 10 17:26	14° \mathbb{B} 19'22			10954 Feb 25 02:48	0° \mathbb{Y}	
evening set	10953 Apr 15 15:23	12° \mathbb{B} 22'54		evening max el	10954 Mar 14 20:36	22° \mathbb{Y} 23'14	23°41'37
inferior conj	10953 Apr 20 22:57	6° \mathbb{B} 01'09	2°44'45	retrograde	10954 Mar 25 16:57	28° \mathbb{Y} 47'01	
minimum elong	10953 Apr 20 21:00	6° \mathbb{B} 07'58	2°44'01	asc. node	10954 Mar 28 14:42	28° \mathbb{Y} 07'13	
min. Earth dist.	10953 Apr 20 19:39	6° \mathbb{B} 12'37	0.68687 AU	evening set	10954 Mar 30 21:29	26° \mathbb{Y} 36'30	
	10953 Apr 25 22:07	30° \mathbb{R} \mathbb{Y}		min. Earth dist.	10954 Apr 04 16:21	21° \mathbb{Y} 01'20	0.68528 AU
morning rise	10953 Apr 26 02:28	29° \mathbb{Y} 50'35		inferior conj	10954 Apr 05 07:49	20° \mathbb{Y} 08'24	2°14'15
direct	10953 Apr 30 19:20	27° \mathbb{Y} 51'51		minimum elong	10954 Apr 05 05:38	20° \mathbb{Y} 15'53	2°13'28
	10953 May 06 06:56	0° \mathbb{B}		morning rise	10954 Apr 10 13:47	14° \mathbb{Y} 04'17	
morning max el	10953 May 10 01:10	3° \mathbb{B} 15'54	21°57'50	direct	10954 Apr 14 17:26	12° \mathbb{Y} 27'14	
desc. node	10953 May 14 10:42	8° \mathbb{B} 09'21		morning max el	10954 Apr 22 19:40	17° \mathbb{Y} 03'42	20°37'57
	10953 May 30 07:46	0° \mathbb{H}		desc. node	10954 May 01 07:33	27° \mathbb{Y} 18'59	
morning set	10953 Jun 11 19:45	19° \mathbb{H} 17'51			10954 May 03 06:27	0° \mathbb{B}	
max. Earth dist.	10953 Jun 17 12:15	28° \mathbb{H} 35'50	1.41490 AU	morning set	10954 May 22 04:12	28° \mathbb{B} 06'49	
	10953 Jun 18 08:23	0° \mathbb{G}			10954 May 23 09:17	0° \mathbb{H}	
				max. Earth dist.	10954 May 30 18:42	11° \mathbb{H} 43'15	1.43432 AU
superior conj	10953 Jun 25 05:12	11° \mathbb{G} 48'22	-1°39'44				
minimum elong	10953 Jun 25 11:37	12° \mathbb{G} 16'42	1°39'36	superior conj	10954 Jun 06 08:59	22° \mathbb{H} 32'40	-2°03'31
	10953 Jul 05 05:45	0° \mathbb{Q}		minimum elong	10954 Jun 06 14:32	22° \mathbb{H} 55'51	2°03'47
evening rise	10953 Jul 05 20:51	1° \mathbb{Q} 09'51			10954 Jun 10 18:48	0° \mathbb{G}	
asc. node	10953 Jul 07 16:05	4° \mathbb{Q} 29'30		evening rise	10954 Jun 18 14:48	13° \mathbb{G} 38'14	
evening max el	10953 Jul 21 22:48	26° \mathbb{Q} 45'04	18°13'17	asc. node	10954 Jun 24 13:03	24° \mathbb{G} 00'09	
	10953 Jul 26 20:08	0° \mathbb{M}			10954 Jun 28 03:26	0° \mathbb{Q}	

evening max el	10954 Jul 05 11:35	9°Ω51'21	18°04'10		10955 Jun 03 09:07	0°☿	
retrograde	10954 Jul 12 00:24	13°Ω13'27		asc. node	10955 Jun 11 10:04	13°☿08'54	
evening set	10954 Jul 14 14:31	12°Ω41'16		evening max el	10955 Jun 19 01:27	23°☿16'04	18°13'41
inferior conj	10954 Jul 21 03:12	7°Ω37'29	1°58'52	retrograde	10955 Jun 25 10:08	26°☿38'02	
minimum elong	10954 Jul 21 05:55	7°Ω30'39	1°57'33	evening set	10955 Jun 28 08:19	25°☿52'17	
min. Earth dist.	10954 Jul 24 04:53	4°Ω34'31	0.61506 AU	inferior conj	10955 Jul 04 08:16	20°☿30'43	2°43'14
morning rise	10954 Jul 27 18:51	1°Ω35'32		minimum elong	10955 Jul 04 10:39	20°☿24'03	2°42'08
desc. node	10954 Jul 28 06:51	1°Ω15'41		min. Earth dist.	10955 Jul 06 21:27	17°☿39'45	0.63680 AU
	10954 Jul 30 17:53	30°☿☿		morning rise	10955 Jul 10 11:28	14°☿15'41	
direct	10954 Aug 03 10:43	29°☿17'48		desc. node	10955 Jul 15 04:04	11°☿53'03	
	10954 Aug 07 07:35	0°Ω		direct	10955 Jul 17 04:00	11°☿39'38	
morning max el	10954 Aug 17 16:03	7°Ω18'40	27°57'18	morning max el	10955 Jul 31 00:49	19°☿41'55	27°42'13
	10954 Sep 03 22:39	0°♊			10955 Aug 08 19:38	0°Ω	
morning set	10954 Sep 20 02:07	29°♊24'05			10955 Aug 27 22:55	0°♊	
	10954 Sep 20 09:05	0°♊		morning set	10955 Sep 03 20:44	13°♊08'36	
asc. node	10954 Sep 20 13:31	0°♊22'58		asc. node	10955 Sep 07 10:17	20°♊24'37	
max. Earth dist.	10954 Sep 25 18:19	11°♊28'32	1.31745 AU	max. Earth dist.	10955 Sep 08 19:14	23°♊17'17	1.32581 AU
superior conj	10954 Sep 27 11:28	15°♊14'20	1°03'48	superior conj	10955 Sep 11 18:15	29°♊36'48	0°41'39
minimum elong	10954 Sep 27 09:14	15°♊02'02	1°03'33	minimum elong	10955 Sep 11 16:26	29°♊26'59	0°41'15
evening rise	10954 Oct 04 05:24	0°♋03'22			10955 Sep 11 22:33	0°♊	
	10954 Oct 04 04:47	0°♋		evening rise	10955 Sep 18 16:48	14°♊39'18	
	10954 Oct 20 11:52	0°♊			10955 Sep 26 07:18	0°♋	
desc. node	10954 Oct 24 04:16	5°♊03'31		desc. node	10955 Oct 11 01:32	21°♋23'15	
evening max el	10954 Oct 30 02:54	11°♊42'58	24°49'33	evening max el	10955 Oct 11 13:32	21°♋52'50	23°09'59
retrograde	10954 Nov 12 22:23	18°♊38'38		retrograde	10955 Oct 24 21:30	28°♋31'07	
evening set	10954 Nov 18 10:23	17°♊30'56		evening set	10955 Oct 28 23:59	27°♋54'31	
min. Earth dist.	10954 Nov 23 14:34	14°♊46'01	0.56671 AU	min. Earth dist.	10955 Nov 04 22:57	24°♋41'35	0.55250 AU
inferior conj	10954 Nov 26 05:54	13°♊03'56	-5°29'22	inferior conj	10955 Nov 06 11:47	23°♋48'14	-5°46'56
minimum elong	10954 Nov 26 11:43	12°♊54'31	5°28'01	minimum elong	10955 Nov 06 10:23	23°♋50'16	5°46'25
morning rise	10954 Dec 04 15:17	8°♊57'21		morning rise	10955 Nov 14 22:29	19°♋57'41	
direct	10954 Dec 07 01:19	8°♊41'01		direct	10955 Nov 17 22:04	19°♋36'31	
morning max el	10954 Dec 16 13:19	13°♊13'57	19°22'55	morning max el	10955 Nov 28 22:47	24°♋49'45	20°38'59
asc. node	10954 Dec 17 13:49	14°♊15'45			10955 Dec 03 12:25	0°♊	
	10954 Dec 28 01:59	0°♋		asc. node	10955 Dec 04 10:49	1°♊15'33	
morning set	10955 Jan 02 15:21	10°♋46'56		morning set	10955 Dec 17 22:44	25°♊27'46	
					10955 Dec 20 03:15	0°♋	
superior conj	10955 Jan 10 17:24	26°♋53'17	1°08'45	superior conj	10955 Dec 25 09:51	10°♋54'33	1°26'09
minimum elong	10955 Jan 10 20:24	27°♋07'53	1°08'56	minimum elong	10955 Dec 25 12:09	11°♋06'20	1°26'33
	10955 Jan 12 07:59	0°♌		max. Earth dist.	10955 Dec 30 13:57	21°♋12'11	1.36042 AU
max. Earth dist.	10955 Jan 17 05:48	9°♌11'50	1.38151 AU	evening rise	10956 Jan 03 11:39	28°♋35'04	
desc. node	10955 Jan 20 03:15	14°♌23'32			10956 Jan 04 06:09	0°♌	
evening rise	10955 Jan 20 23:36	15°♌53'00		desc. node	10956 Jan 07 00:06	4°♌55'57	
	10955 Jan 29 10:26	0°♍			10956 Jan 22 17:15	0°♍	
	10955 Feb 19 17:35	0°♍		evening max el	10956 Feb 07 23:40	20°♍03'00	26°08'29
evening max el	10955 Feb 25 10:05	6°♍13'23	24°59'48	retrograde	10956 Feb 20 16:56	27°♍16'57	
retrograde	10955 Mar 09 07:28	13°♍08'09		evening set	10956 Feb 26 21:12	24°♍46'44	
evening set	10955 Mar 14 23:58	10°♍46'07		asc. node	10956 Mar 01 09:17	21°♍11'48	
asc. node	10955 Mar 15 12:00	10°♍19'30		min. Earth dist.	10956 Mar 02 02:03	20°♍21'24	0.66960 AU
min. Earth dist.	10955 Mar 19 11:13	5°♍46'01	0.67945 AU	inferior conj	10956 Mar 03 17:17	18°♍20'06	0°44'56
inferior conj	10955 Mar 20 14:35	4°♍16'04	1°34'19	minimum elong	10956 Mar 03 16:10	18°♍23'33	0°44'40
minimum elong	10955 Mar 20 12:39	4°♍22'27	1°33'38	morning rise	10956 Mar 09 11:51	12°♍33'29	
	10955 Mar 24 03:18	30°♍♍		direct	10956 Mar 12 16:02	11°♍36'13	
morning rise	10955 Mar 26 01:35	28°♍19'46		morning max el	10956 Mar 19 07:14	15°♍10'44	18°40'21
direct	10955 Mar 29 16:54	27°♍03'42			10956 Mar 30 11:09	0°♍	
	10955 Apr 04 18:49	0°♍		desc. node	10956 Apr 04 01:03	7°♍03'02	
morning max el	10955 Apr 05 21:47	1°♍02'55	19°31'16	morning set	10956 Apr 09 17:03	15°♍54'39	
desc. node	10955 Apr 18 04:20	16°♍59'37			10956 Apr 18 17:05	0°♍	
greatest brilliancy	10955 Apr 18 14:27	17°♍36'50	-0.7m	max. Earth dist.	10956 Apr 25 01:56	9°♍57'19	1.45601 AU
	10955 Apr 26 20:01	0°♍					
morning set	10955 May 01 03:28	6°♍36'31		superior conj	10956 Apr 25 22:39	11°♍18'27	-2°03'17
max. Earth dist.	10955 May 13 07:46	25°♍34'55	1.44854 AU	minimum elong	10956 Apr 25 15:32	10°♍50'34	2°03'15
	10955 May 16 02:37	0°♎			10956 May 07 19:13	0°♎	
				evening rise	10956 May 11 09:46	5°♎45'06	
superior conj	10955 May 17 12:43	2°♎16'08	-2°13'10	greatest brilliancy	10956 May 18 20:53	17°♎40'15	-0.9m
minimum elong	10955 May 17 12:53	2°♎16'47	2°13'42		10956 May 26 23:30	0°☿	
evening rise	10955 May 31 12:12	25°♎11'19					

asc. node	10956 May 28 07:09	1°♄48'43		10957 Mar 23 12:35	0°♁	
evening max el	10956 Jun 01 13:29	6°♄52'20	18°41'05			
retrograde	10956 Jun 08 03:16	10°♄27'47		superior conj	10957 Apr 05 06:28	20°♁21'46 -1°34'21
evening set	10956 Jun 11 09:35	9°♄27'01		minimum elong	10957 Apr 04 21:06	19°♁44'56 1°33'32
inferior conj	10956 Jun 17 00:39	3°♄49'06	3°07'57	max. Earth dist.	10957 Apr 07 22:04	24°♁31'26 1.45597 AU
minimum elong	10956 Jun 17 02:01	3°♄44'53	3°07'11		10957 Apr 11 10:12	0°♄
min. Earth dist.	10956 Jun 18 22:58	1°♄26'58	0.65555 AU	evening rise	10957 Apr 21 09:21	15°♄28'13
	10956 Jun 20 04:50	30°♄			10957 Apr 30 19:50	0°♄
morning rise	10956 Jun 22 17:40	27°♄28'35		greatest brilliancy	10957 May 04 01:07	4°♄51'49 -0.7m
direct	10956 Jun 29 04:56	24°♄45'13		asc. node	10957 May 15 04:17	19°♄49'35
desc. node	10956 Jul 01 01:12	24°♄56'58		evening max el	10957 May 15 21:21	20°♄33'52 19°25'29
	10956 Jul 09 17:32	0°♄		retrograde	10957 May 23 00:31	24°♄35'23
morning max el	10956 Jul 12 11:27	2°♄36'12	26°54'45	evening set	10957 May 26 15:24	23°♄18'54
	10956 Aug 02 01:49	0°♄		inferior conj	10957 Jun 01 00:59	17°♄26'14 3°16'55
morning set	10956 Aug 17 05:01	26°♄21'34		minimum elong	10957 Jun 01 01:11	17°♄25'33 3°16'21
	10956 Aug 19 02:07	0°♄		min. Earth dist.	10957 Jun 02 08:21	15°♄43'11 0.67014 AU
max. Earth dist.	10956 Aug 21 10:56	4°♄42'08	1.33931 AU	morning rise	10957 Jun 06 10:33	11°♄05'07
asc. node	10956 Aug 24 07:03	10°♄29'51		direct	10957 Jun 12 12:17	8°♄24'59
				desc. node	10957 Jun 17 22:15	10°♄06'26
superior conj	10956 Aug 25 19:24	13°♄39'09	0°14'49	morning max el	10957 Jun 24 22:01	15°♄50'29 25°43'23
minimum elong	10956 Aug 25 18:39	13°♄35'10	0°14'26		10957 Jul 06 14:11	0°♄
behind sun begin	10956 Aug 25 16:07	13°♄21'57			10957 Jul 25 22:57	0°♄
behind sun end	10956 Aug 25 21:10	13°♄48'23		morning set	10957 Jul 30 23:16	8°♄54'08
evening rise	10956 Sep 02 03:05	29°♄09'17		max. Earth dist.	10957 Aug 03 16:34	15°♄50'21 1.35749 AU
	10956 Sep 02 12:45	0°♄				
	10956 Sep 20 05:17	0°♄		superior conj	10957 Aug 09 12:17	27°♄14'56 -0°15'57
evening max el	10956 Sep 22 04:30	2°♄05'12	21°32'20	minimum elong	10957 Aug 09 13:16	27°♄19'52 0°16'09
desc. node	10956 Sep 26 22:50	5°♄53'55			10957 Aug 10 20:55	0°♄
retrograde	10956 Oct 04 10:26	8°♄10'25		asc. node	10957 Aug 11 03:50	0°♄35'10
evening set	10956 Oct 07 04:05	7°♄53'20		evening rise	10957 Aug 17 10:11	13°♄27'51
inferior conj	10956 Oct 16 05:03	3°♄57'21	-5°08'24		10957 Aug 26 00:09	0°♄
minimum elong	10956 Oct 15 20:21	4°♄09'31	5°06'24	evening max el	10957 Sep 04 07:35	12°♄52'47 20°09'49
min. Earth dist.	10956 Oct 16 05:51	3°♄56'14	0.54610 AU	desc. node	10957 Sep 13 20:10	18°♄07'21
morning rise	10956 Oct 24 13:35	0°♄08'35		retrograde	10957 Sep 14 23:37	18°♄10'52
	10956 Oct 25 03:42	30°♄		evening set	10957 Sep 16 22:45	18°♄00'53
direct	10956 Oct 28 07:08	29°♄38'27		inferior conj	10957 Sep 25 23:27	14°♄02'18 -3°38'14
	10956 Oct 31 08:48	0°♄		minimum elong	10957 Sep 25 14:12	14°♄16'02 3°35'06
morning max el	10956 Nov 09 18:56	5°♄35'11	22°15'25	min. Earth dist.	10957 Sep 27 14:39	13°♄04'00 0.54908 AU
asc. node	10956 Nov 20 07:45	19°♄10'45		morning rise	10957 Oct 04 04:40	9°♄53'53
	10956 Nov 26 08:32	0°♄		direct	10957 Oct 08 17:15	9°♄09'37
morning set	10956 Dec 01 09:16	10°♄14'50		morning max el	10957 Oct 22 07:09	15°♄48'05 24°02'43
					10957 Nov 02 13:27	0°♄
superior conj	10956 Dec 08 10:55	25°♄18'46	1°36'13	asc. node	10957 Nov 07 04:38	7°♄48'02
minimum elong	10956 Dec 08 12:07	25°♄25'09	1°36'46	morning set	10957 Nov 15 21:04	25°♄02'37
	10956 Dec 10 16:31	0°♄			10957 Nov 18 04:15	0°♄
max. Earth dist.	10956 Dec 12 04:31	3°♄05'42	1.34227 AU			
evening rise	10956 Dec 16 14:52	11°♄55'40		superior conj	10957 Nov 22 17:46	9°♄57'40 1°39'35
desc. node	10956 Dec 23 21:01	25°♄17'03		minimum elong	10957 Nov 22 17:48	9°♄57'47 1°40'08
	10956 Dec 26 15:11	0°♄		max. Earth dist.	10957 Nov 25 02:57	15°♄06'22 1.32826 AU
	10957 Jan 16 23:05	0°♄		evening rise	10957 Nov 30 05:47	25°♄46'06
evening max el	10957 Jan 20 13:12	3°♄42'57	27°00'19		10957 Dec 02 08:53	0°♄
retrograde	10957 Feb 02 20:31	11°♄05'22		desc. node	10957 Dec 10 18:02	15°♄21'16
evening set	10957 Feb 09 11:13	8°♄31'45			10957 Dec 20 01:14	0°♄
min. Earth dist.	10957 Feb 13 10:32	4°♄40'22	0.65596 AU	evening max el	10958 Jan 03 01:33	17°♄02'23 27°28'14
inferior conj	10957 Feb 15 13:40	2°♄14'34	-0°13'52	retrograde	10958 Jan 16 17:44	24°♄25'05
minimum elong	10957 Feb 15 14:03	2°♄13'28	0°13'22	evening set	10958 Jan 23 15:43	21°♄54'46
transit middle	10957 Feb 15 14:03	2°♄13'28	0°13'22	min. Earth dist.	10958 Jan 27 10:41	18°♄34'48 0.63890 AU
transit begin	10957 Feb 15 12:24	2°♄18'10		inferior conj	10958 Jan 30 01:10	15°♄53'34 -1°21'28
transit end	10957 Feb 15 15:42	2°♄08'45		minimum elong	10958 Jan 30 03:46	15°♄46'53 1°19'55
asc. node	10957 Feb 16 06:33	1°♄26'39		asc. node	10958 Feb 03 03:46	12°♄04'31
	10957 Feb 17 14:23	30°♄		morning rise	10958 Feb 05 17:50	10°♄33'46
morning rise	10957 Feb 21 18:14	26°♄40'01		direct	10958 Feb 08 04:23	10°♄04'13
direct	10957 Feb 24 12:44	25°♄58'26		morning max el	10958 Feb 14 15:35	13°♄24'44 17°48'50
morning max el	10957 Mar 02 22:05	29°♄20'25	18°06'02		10958 Feb 26 05:16	0°♄
	10957 Mar 03 13:40	0°♄		morning set	10958 Mar 03 07:32	8°♄38'31
morning set	10957 Mar 21 10:25	26°♄36'17		desc. node	10958 Mar 08 18:24	17°♄52'43
desc. node	10957 Mar 21 21:43	27°♄22'15				

superior conj	10958 Mar 16 05:49	0° Υ 13'13	-0°54'07	desc. node	10959 Feb 23 15:09	8° X 30'31	
minimum elong	10958 Mar 16 00:01	29° X 49'40	0°53'16				
	10958 Mar 16 02:33	0° Υ		superior conj	10959 Feb 25 05:29	11° X 14'25	-0°12'09
max. Earth dist.	10958 Mar 21 17:04	8° Υ 59'14	1.44858 AU	minimum elong	10959 Feb 25 04:22	11° X 09'38	0°11'44
evening rise	10958 Mar 31 21:10	24° Υ 49'40		behind sun begin	10959 Feb 24 22:24	10° X 44'15	
	10958 Apr 04 06:30	0° B		behind sun end	10959 Feb 25 10:19	11° X 34'58	
	10958 Apr 25 04:47	0° Π		max. Earth dist.	10959 Mar 04 08:39	23° X 05'18	1.43470 AU
evening max el	10958 Apr 28 23:44	4° Π 17'00	20°25'00		10959 Mar 08 16:11	0° Υ	
asc. node	10958 May 02 01:29	6° Π 59'01		evening rise	10959 Mar 11 12:50	4° Υ 29'24	
retrograde	10958 May 06 23:20	8° Π 54'38			10959 Mar 28 15:32	0° B	
evening set	10958 May 10 23:31	7° Π 22'22		evening max el	10959 Apr 11 20:38	18° B 01'45	21°36'29
inferior conj	10958 May 16 06:28	1° Π 16'38	3°12'59	asc. node	10959 Apr 18 22:43	23° B 02'37	
minimum elong	10958 May 16 05:37	1° Π 19'33	3°12'25	retrograde	10959 Apr 20 21:37	23° B 21'09	
min. Earth dist.	10958 May 16 23:42	0° Π 17'35	0.68023 AU	evening set	10959 Apr 25 08:05	21° B 33'23	
	10958 May 17 04:52	30° R B		inferior conj	10959 Apr 30 14:51	15° B 16'49	2°58'00
morning rise	10958 May 21 11:29	24° B 58'04		minimum elong	10959 Apr 30 13:12	15° B 22'33	2°57'20
direct	10958 May 27 01:14	22° B 29'36		min. Earth dist.	10959 Apr 30 18:54	15° B 02'41	0.68574 AU
desc. node	10958 Jun 04 19:14	26° B 51'40		morning rise	10959 May 05 18:06	9° B 02'45	
morning max el	10958 Jun 07 07:46	29° B 14'56	24°17'45	direct	10959 May 10 18:44	6° B 51'57	
	10958 Jun 08 01:16	0° Π		morning max el	10959 May 20 18:16	12° B 46'29	22°47'52
	10958 Jun 30 09:05	0° S		desc. node	10959 May 22 16:09	14° B 47'34	
morning set	10958 Jul 12 22:46	20° S 33'33			10959 Jun 03 13:33	0° Π	
max. Earth dist.	10958 Jul 16 14:40	27° S 01'21	1.37917 AU		10959 Jun 23 06:07	0° S	
	10958 Jul 18 06:07	0° Ω		morning set	10959 Jun 23 22:30	1° S 07'18	
				max. Earth dist.	10959 Jun 28 11:53	8° S 45'54	1.40220 AU
superior conj	10958 Jul 23 17:31	10° Ω 15'09	-0°49'10				
minimum elong	10958 Jul 23 20:48	10° Ω 30'54	0°49'05	superior conj	10959 Jul 06 07:04	22° S 30'48	-1°22'16
asc. node	10958 Jul 29 00:40	20° Ω 36'12		minimum elong	10959 Jul 06 12:39	22° S 56'14	1°22'04
evening rise	10958 Aug 01 11:31	27° Ω 27'19			10959 Jul 10 08:27	0° Ω	
	10958 Aug 02 18:26	0° P		asc. node	10959 Jul 15 21:33	10° Ω 29'22	
evening max el	10958 Aug 18 00:26	24° P 27'28	19°07'57	evening rise	10959 Jul 16 03:57	10° Ω 59'45	
retrograde	10958 Aug 27 00:45	28° P 56'47			10959 Jul 26 20:36	0° P	
evening set	10958 Aug 28 21:12	28° P 46'11		evening max el	10959 Aug 01 04:16	6° P 45'50	18°27'22
desc. node	10958 Aug 31 17:31	27° P 52'10		retrograde	10959 Aug 08 20:26	10° P 36'55	
inferior conj	10958 Sep 06 08:22	24° P 33'50	-1°45'13	evening set	10959 Aug 10 22:25	10° P 20'43	
minimum elong	10958 Sep 06 03:46	24° P 41'39	1°43'32	inferior conj	10959 Aug 18 14:32	5° P 48'29	0°00'13
min. Earth dist.	10958 Sep 09 03:34	22° P 40'14	0.56110 AU	minimum elong	10959 Aug 18 14:32	5° P 48'30	0°00'05
morning rise	10958 Sep 14 07:21	19° P 50'26		transit middle	10959 Aug 18 14:32	5° P 48'30	0°00'05
direct	10958 Sep 19 15:28	18° P 44'11		transit begin	10959 Aug 18 10:58	5° P 55'34	
morning max el	10958 Oct 03 19:11	25° P 57'23	25°44'40	transit end	10959 Aug 18 18:05	5° P 41'25	
	10958 Oct 07 15:12	0° Δ		desc. node	10959 Aug 18 14:49	5° P 47'56	
asc. node	10958 Oct 25 01:28	26° Δ 56'16		min. Earth dist.	10959 Aug 21 22:11	3° P 11'30	0.57988 AU
	10958 Oct 26 15:05	0° M		morning rise	10959 Aug 26 03:06	0° P 28'24	
morning set	10958 Oct 31 08:23	9° M 45'30			10959 Aug 27 03:12	30° R Ω	
				direct	10959 Sep 01 04:23	28° Ω 54'00	
superior conj	10958 Nov 07 04:03	24° M 43'25	1°36'48		10959 Sep 06 08:26	0° P	
minimum elong	10958 Nov 07 03:01	24° M 37'43	1°37'13	morning max el	10959 Sep 15 12:37	6° P 31'54	27°04'01
max. Earth dist.	10958 Nov 08 07:54	27° M 17'15	1.31895 AU		10959 Oct 02 23:56	0° Δ	
	10958 Nov 09 13:33	0° J		asc. node	10959 Oct 11 22:17	16° Δ 27'33	
evening rise	10958 Nov 14 05:18	9° J 57'52		morning set	10959 Oct 15 17:33	24° Δ 19'07	
	10958 Nov 24 16:10	0° B			10959 Oct 18 08:46	0° M	
desc. node	10958 Nov 27 15:08	5° B 00'39					
evening max el	10958 Dec 16 10:46	29° B 48'43	27°26'08	superior conj	10959 Oct 22 15:46	9° M 30'11	1°28'15
	10958 Dec 16 15:33	0° \approx		minimum elong	10959 Oct 22 13:57	9° M 20'04	1°28'26
retrograde	10958 Dec 30 07:40	7° \approx 06'01		max. Earth dist.	10959 Oct 22 16:38	9° M 35'03	1.31453 AU
evening set	10959 Jan 06 07:45	4° \approx 47'53		evening rise	10959 Oct 29 10:51	24° M 24'24	
min. Earth dist.	10959 Jan 10 00:59	1° \approx 53'44	0.61909 AU		10959 Nov 01 03:10	0° J	
	10959 Jan 12 02:48	30° R B		desc. node	10959 Nov 14 12:18	24° J 05'23	
inferior conj	10959 Jan 13 00:43	29° B 09'11	-2°35'55		10959 Nov 18 12:50	0° B	
minimum elong	10959 Jan 13 05:59	28° B 57'04	2°33'20	evening max el	10959 Nov 28 14:22	11° B 50'33	26°50'01
morning rise	10959 Jan 20 06:49	24° B 07'03		retrograde	10959 Dec 12 12:50	18° B 59'22	
asc. node	10959 Jan 21 00:57	23° B 55'03		evening set	10959 Dec 19 07:27	17° B 02'57	
direct	10959 Jan 22 11:44	23° B 45'45		min. Earth dist.	10959 Dec 23 04:41	14° B 24'49	0.59791 AU
morning max el	10959 Jan 29 08:32	27° B 14'39	17°49'29	inferior conj	10959 Dec 26 08:50	11° B 52'05	-3°52'20
	10959 Jan 31 19:25	0° \approx		minimum elong	10959 Dec 26 16:26	11° B 36'47	3°49'19
morning set	10959 Feb 14 02:34	21° \approx 43'07		morning rise	10960 Jan 03 04:08	7° B 10'24	
	10959 Feb 18 18:05	0° X		direct	10960 Jan 05 06:53	6° B 53'42	

asc. node	10960 Jan 07 22:07	7° Z 20'51		direct	10960 Dec 17 09:36	19° Z 18'14	
morning max el	10960 Jan 12 21:24	10° Z 40'12	18°09'09	asc. node	10960 Dec 24 19:12	22° Z 21'16	
	10960 Jan 25 14:15	0° \approx		morning max el	10960 Dec 26 02:22	23° Z 31'14	18°49'36
morning set	10960 Jan 28 13:14	5° \approx 30'48			10960 Dec 31 08:44	0° Z	
				morning set	10961 Jan 11 10:38	19° Z 47'25	
superior conj	10960 Feb 07 05:01	23° \approx 22'12	0°25'13		10961 Jan 16 15:53	0° \approx	
minimum elong	10960 Feb 07 06:55	23° \approx 30'45	0°25'20				
desc. node	10960 Feb 10 11:54	29° \approx 11'28		superior conj	10961 Jan 20 00:10	6° \approx 25'02	0°55'10
	10960 Feb 10 23:02	0° X		minimum elong	10961 Jan 20 03:11	6° \approx 39'15	0°55'15
max. Earth dist.	10960 Feb 14 19:57	6° X 37'36	1.41589 AU	max. Earth dist.	10961 Jan 27 03:29	19° \approx 29'21	1.39427 AU
evening rise	10960 Feb 19 20:42	14° X 55'26		desc. node	10961 Jan 27 08:41	19° \approx 52'20	
	10960 Feb 29 12:53	0° Y		evening rise	10961 Jan 31 01:47	26° \approx 17'41	
	10960 Mar 22 19:40	0° B			10961 Feb 02 06:45	0° X	
evening max el	10960 Mar 24 13:14	1° B 48'33	22°55'19		10961 Feb 22 03:58	0° Y	
retrograde	10960 Apr 03 17:45	7° B 49'41		evening max el	10961 Mar 07 03:20	15° Y 37'53	24°15'34
asc. node	10960 Apr 04 19:59	7° B 43'56		retrograde	10961 Mar 18 10:31	22° Y 15'26	
evening set	10960 Apr 08 15:30	5° B 47'07		asc. node	10961 Mar 22 17:16	20° Y 51'10	
min. Earth dist.	10960 Apr 13 15:37	29° Y 51'44	0.68675 AU	evening set	10961 Mar 23 20:14	19° Y 59'36	
	10960 Apr 13 13:13	30° R Y		min. Earth dist.	10961 Mar 28 11:42	14° Y 39'37	0.68337 AU
inferior conj	10960 Apr 14 00:03	29° Y 22'27	2°33'00	inferior conj	10961 Mar 29 08:15	13° Y 30'21	1°58'28
minimum elong	10960 Apr 13 21:57	29° Y 29'44	2°32'13	minimum elong	10961 Mar 29 06:06	13° Y 37'35	1°57'42
morning rise	10960 Apr 19 04:18	23° Y 14'24		morning rise	10961 Apr 03 16:04	7° Y 29'34	
direct	10960 Apr 23 15:35	21° Y 24'34		direct	10961 Apr 07 14:25	6° Y 01'32	
morning max el	10960 May 02 08:51	26° Y 27'09	21°22'26	morning max el	10961 Apr 15 06:30	10° Y 20'08	20°07'49
	10960 May 05 14:59	0° B		desc. node	10961 Apr 25 09:49	22° Y 58'25	
desc. node	10960 May 08 13:01	3° B 34'23			10961 Apr 30 06:52	0° B	
	10960 May 27 01:27	0° II		morning set	10961 May 12 21:46	19° B 02'57	
morning set	10960 Jun 02 19:50	10° II 29'27			10961 May 19 22:22	0° II	
max. Earth dist.	10960 Jun 09 14:36	21° II 24'14	1.42377 AU	max. Earth dist.	10961 May 23 00:36	4° II 54'30	1.44121 AU
	10960 Jun 14 18:15	0° E					
superior conj	10960 Jun 17 00:20	3° E 50'58	-1°51'06	superior conj	10961 May 28 17:43	14° II 08'45	-2°09'43
minimum elong	10960 Jun 17 06:51	4° E 19'01	1°51'07	minimum elong	10961 May 28 21:33	14° II 24'25	2°10'10
evening rise	10960 Jun 28 07:25	23° E 54'34			10961 Jun 07 05:04	0° E	
asc. node	10960 Jul 01 18:29	0° O 09'41		evening rise	10961 Jun 10 17:12	6° E 01'01	
	10960 Jul 01 16:20	0° O		asc. node	10961 Jun 18 15:28	19° E 32'00	
evening max el	10960 Jul 14 14:54	19° O 37'25	18°07'02		10961 Jun 25 15:30	0° O	
retrograde	10960 Jul 21 10:20	23° O 05'37		evening max el	10961 Jun 28 04:30	2° O 52'32	18°05'52
evening set	10960 Jul 23 20:02	22° O 40'00		retrograde	10961 Jul 04 14:19	6° O 12'56	
inferior conj	10960 Jul 30 17:46	17° O 47'03	1°22'51	evening set	10961 Jul 07 07:54	5° O 35'08	
minimum elong	10960 Jul 30 20:06	17° O 41'40	1°21'37	inferior conj	10961 Jul 13 14:38	0° O 23'13	2°20'20
min. Earth dist.	10960 Aug 03 00:12	14° O 47'12	0.60207 AU	minimum elong	10961 Jul 13 17:21	0° O 16'05	2°19'05
desc. node	10960 Aug 04 12:06	13° O 32'05			10961 Jul 13 23:25	30° R E	
morning rise	10960 Aug 06 17:14	11° O 57'34		min. Earth dist.	10961 Jul 16 11:20	27° E 23'13	0.62461 AU
direct	10960 Aug 13 05:47	9° O 54'34		morning rise	10961 Jul 20 00:47	24° E 14'33	
morning max el	10960 Aug 27 13:18	17° O 48'39	27°49'00	desc. node	10961 Jul 22 09:20	22° E 49'14	
	10960 Sep 06 17:32	0° np		direct	10961 Jul 26 17:37	21° E 48'10	
	10960 Sep 24 16:18	0° L			10961 Aug 09 23:50	0° O	
asc. node	10960 Sep 27 19:05	6° L 15'13		morning max el	10961 Aug 09 20:02	29° E 50'27	27°55'20
morning set	10960 Sep 28 22:48	8° L 38'50			10961 Aug 31 18:07	0° np	
max. Earth dist.	10960 Oct 05 01:35	21° L 51'11	1.31498 AU	morning set	10961 Sep 12 22:00	22° np 38'19	
				asc. node	10961 Sep 14 15:49	26° np 13'14	
superior conj	10960 Oct 06 03:03	24° L 12'20	1°14'15		10961 Sep 16 11:00	0° L	
minimum elong	10960 Oct 06 00:50	24° L 00'02	1°14'09	max. Earth dist.	10961 Sep 18 06:42	3° L 53'44	1.32042 AU
	10960 Oct 08 17:39	0° ml					
evening rise	10960 Oct 12 20:14	8° ml 59'39		superior conj	10961 Sep 20 12:02	8° L 43'38	0°55'01
	10960 Oct 23 12:55	0° Z		minimum elong	10961 Sep 20 09:54	8° L 31'59	0°54'40
desc. node	10960 Oct 31 09:30	12° Z 22'10		evening rise	10961 Sep 27 07:26	23° L 37'02	
evening max el	10960 Nov 09 10:01	23° Z 01'00	25°40'59		10961 Sep 30 08:04	0° ml	
	10960 Nov 22 13:15	0° Z		desc. node	10961 Oct 18 06:46	29° ml 31'40	
retrograde	10960 Nov 23 07:19	0° Z 01'21			10961 Oct 18 16:31	0° Z	
	10960 Nov 24 01:21	30° R Z		evening max el	10961 Oct 21 22:04	3° Z 25'02	24°07'59
evening set	10960 Nov 29 10:16	28° Z 34'28		retrograde	10961 Nov 04 13:46	10° Z 14'58	
min. Earth dist.	10960 Dec 03 22:25	25° Z 57'38	0.57731 AU	evening set	10961 Nov 09 12:42	9° Z 21'03	
inferior conj	10960 Dec 06 22:09	23° Z 52'55	-5°00'29	min. Earth dist.	10961 Nov 15 08:48	6° Z 26'36	0.55987 AU
minimum elong	10960 Dec 07 05:54	23° Z 39'24	4°58'13	inferior conj	10961 Nov 17 14:50	5° Z 04'00	-5°42'50
morning rise	10960 Dec 15 03:55	19° Z 33'47		minimum elong	10961 Nov 17 18:06	4° Z 59'00	5°42'04
				morning rise	10961 Nov 26 01:32	1° Z 05'50	

direct	10961 Nov 28 16:42	0° J 47'56		direct	10962 Nov 09 06:40	11° M 19'00	
morning max el	10961 Dec 08 19:44	5° J 36'39	19°52'36	morning max el	10962 Nov 20 23:24	16° M 50'49	21°17'55
asc. node	10961 Dec 11 16:14	8° J 42'00		asc. node	10962 Nov 28 13:12	26° M 07'05	
	10961 Dec 24 11:07	0° Z			10962 Dec 01 00:15	0° J	
morning set	10961 Dec 26 15:08	4° Z 21'26		morning set	10962 Dec 11 00:05	19° J 05'19	
					10962 Dec 16 04:38	0° Z	
superior conj	10962 Jan 03 10:04	20° Z 08'24	1°17'04	superior conj	10962 Dec 18 06:35	4° Z 20'38	1°31'17
minimum elong	10962 Jan 03 12:51	20° Z 22'15	1°17'20	minimum elong	10962 Dec 18 08:27	4° Z 30'20	1°31'45
	10962 Jan 08 11:58	0° \approx			10962 Dec 22 19:49	13° Z 35'33	1.35221 AU
max. Earth dist.	10962 Jan 09 09:46	1° \approx 42'28	1.37224 AU	max. Earth dist.	10962 Dec 26 22:16	21° Z 31'43	
evening rise	10962 Jan 13 03:20	8° \approx 32'18		evening rise	10962 Dec 31 13:31	0° \approx	
desc. node	10962 Jan 14 05:31	10° \approx 28'46		desc. node	10963 Jan 01 02:24	0° \approx 56'50	
	10962 Jan 26 01:34	0° H			10963 Jan 19 21:58	0° H	
evening max el	10962 Feb 17 16:34	29° H 27'38	25°30'34	evening max el	10963 Jan 31 05:59	13° H 13'18	26°33'03
	10962 Feb 18 05:57	0° Y		retrograde	10963 Feb 13 06:13	20° H 33'00	
retrograde	10962 Mar 01 22:58	6° Y 32'12		evening set	10963 Feb 19 15:06	18° H 00'27	
evening set	10962 Mar 07 20:42	4° Y 05'51		min. Earth dist.	10963 Feb 23 17:24	13° H 49'45	0.66416 AU
asc. node	10962 Mar 09 14:33	2° Y 25'44		asc. node	10963 Feb 24 11:49	12° H 54'55	
	10962 Mar 11 16:33	30° R H		inferior conj	10963 Feb 25 13:46	11° H 36'46	0°21'05
min. Earth dist.	10962 Mar 12 04:59	29° H 20'53	0.67574 AU	minimum elong	10963 Feb 25 13:12	11° H 38'28	0°21'07
inferior conj	10962 Mar 13 13:30	27° H 36'33	1°14'30	morning rise	10963 Mar 03 12:19	5° H 55'04	
minimum elong	10962 Mar 13 11:50	27° H 41'54	1°13'59	direct	10963 Mar 06 12:04	5° H 05'04	
morning rise	10962 Mar 19 03:26	21° H 44'26		morning max el	10963 Mar 13 00:02	8° H 33'12	18°23'41
direct	10962 Mar 22 13:49	20° H 36'50			10963 Mar 28 05:52	0° Y	
morning max el	10962 Mar 29 11:58	24° H 23'54	19°07'41	desc. node	10963 Mar 30 03:14	2° Y 59'54	
	10962 Apr 03 07:40	0° Y		morning set	10963 Apr 02 01:02	7° Y 37'13	
greatest brilliancy	10962 Apr 11 14:30	11° Y 49'02	-0.7m		10963 Apr 16 05:32	0° B	
desc. node	10962 Apr 12 06:33	12° Y 49'25		superior conj	10963 Apr 17 19:10	2° B 27'10	-1°53'01
morning set	10962 Apr 22 00:30	27° Y 46'15		minimum elong	10963 Apr 17 10:13	1° B 52'09	1°52'36
	10962 Apr 23 11:04	0° B		max. Earth dist.	10963 Apr 18 10:58	3° B 28'53	1.45680 AU
max. Earth dist.	10962 May 05 16:12	19° B 01'43	1.45254 AU	evening rise	10963 May 03 16:10	27° B 18'50	
superior conj	10962 May 08 12:29	23° B 30'44	-2°11'31		10963 May 05 09:07	0° II	
minimum elong	10962 May 08 09:23	23° B 18'28	2°11'55	greatest brilliancy	10963 May 13 14:22	12° II 52'09	-0.8m
	10962 May 12 14:30	0° II		asc. node	10963 May 23 09:38	26° II 54'42	
evening rise	10962 May 23 04:44	17° II 09'37		evening max el	10963 May 26 04:20	0° B 02'15	18°58'03
	10962 May 31 01:11	0° B			10963 May 26 03:26	0° B	
asc. node	10962 Jun 05 12:31	8° B 30'01		retrograde	10963 Jun 01 23:01	3° B 47'35	
evening max el	10962 Jun 11 17:51	16° B 23'15	18°23'08	evening set	10963 Jun 05 08:49	2° B 40'23	
retrograde	10962 Jun 18 03:48	19° B 49'46			10963 Jun 08 08:20	30° R II	
evening set	10962 Jun 21 05:19	18° B 57'52		inferior conj	10963 Jun 10 21:11	26° II 56'13	3°13'29
inferior conj	10962 Jun 27 01:02	13° B 29'03	2°55'50	minimum elong	10963 Jun 10 22:03	26° II 53'27	3°12'49
minimum elong	10962 Jun 27 03:02	13° B 23'12	2°54'54	min. Earth dist.	10963 Jun 12 13:11	24° II 49'27	0.66224 AU
min. Earth dist.	10962 Jun 29 08:00	10° B 48'34	0.64516 AU	morning rise	10963 Jun 16 10:39	20° II 34'48	
morning rise	10962 Jul 02 23:33	7° B 10'36		direct	10963 Jun 22 18:19	17° II 51'18	
desc. node	10962 Jul 09 06:30	4° B 30'30		desc. node	10963 Jun 26 03:36	18° II 31'07	
direct	10962 Jul 09 14:18	4° B 30'08		morning max el	10963 Jul 05 16:56	25° II 34'07	26°26'44
morning max el	10962 Jul 23 06:11	12° B 30'00	27°25'34		10963 Jul 09 18:06	0° B	
	10962 Aug 06 06:03	0° Q			10963 Jul 30 18:28	0° Q	
	10962 Aug 24 07:19	0° P		morning set	10963 Aug 10 15:31	19° Q 08'49	
morning set	10962 Aug 27 12:41	6° P 11'24		max. Earth dist.	10963 Aug 14 15:11	26° Q 48'31	1.34651 AU
max. Earth dist.	10962 Sep 01 04:10	15° P 33'47	1.33095 AU		10963 Aug 16 05:49	0° P	
asc. node	10962 Sep 01 12:34	16° P 17'25		asc. node	10963 Aug 19 09:21	6° P 23'16	
superior conj	10962 Sep 04 16:44	22° P 58'48	0°30'49	superior conj	10963 Aug 19 14:44	6° P 51'00	0°02'12
minimum elong	10962 Sep 04 15:16	22° P 51'03	0°30'23	minimum elong	10963 Aug 19 14:37	6° P 50'26	0°01'53
	10962 Sep 07 23:06	0° Q		behind sun begin	10963 Aug 19 08:46	6° P 20'17	
evening rise	10962 Sep 11 18:37	8° Q 11'36		behind sun end	10963 Aug 19 20:29	7° P 20'39	
	10962 Sep 23 02:54	0° M		evening rise	10963 Aug 27 03:48	22° P 37'20	
evening max el	10962 Oct 03 09:11	13° M 31'02	22°27'10		10963 Aug 30 18:23	0° Q	
desc. node	10962 Oct 05 04:02	15° M 09'02		evening max el	10963 Sep 15 04:48	23° Q 56'08	20°54'53
retrograde	10962 Oct 16 08:20	19° M 58'11		desc. node	10963 Sep 22 01:21	28° Q 44'30	
evening set	10962 Oct 19 19:37	19° M 31'40		retrograde	10963 Sep 26 19:44	29° Q 42'01	
min. Earth dist.	10962 Oct 27 16:14	16° M 01'32	0.54869 AU	evening set	10963 Sep 29 03:06	29° Q 29'20	
inferior conj	10962 Oct 28 14:02	15° M 30'42	-5°37'51	inferior conj	10963 Oct 08 05:58	25° Q 34'13	-4°35'09
minimum elong	10962 Oct 28 09:02	15° M 37'46	5°36'57	minimum elong	10963 Oct 07 20:05	25° Q 48'15	4°32'21
morning rise	10962 Nov 06 00:02	11° M 43'17					

min. Earth dist.	10963 Oct 08 23:59	25° Ω 08'37	0.54623 AU	minimum elong	10964 Sep 16 21:37	5° Ω 58'55	2°48'14
morning rise	10963 Oct 16 13:12	21° Ω 39'13		min. Earth dist.	10964 Sep 19 10:10	4° Ω 24'33	0.55328 AU
direct	10963 Oct 20 14:47	21° Ω 03'41		morning rise	10964 Sep 25 08:18	1° Ω 25'14	
morning max el	10963 Nov 02 15:16	27° Ω 19'29	23°00'29	direct	10964 Sep 30 05:36	0° Ω 32'24	
	10963 Nov 05 06:03	0° \mathbb{M}		morning max el	10964 Oct 14 02:15	7° Ω 26'09	24°47'45
asc. node	10963 Nov 15 10:06	14° \mathbb{M} 21'39			10964 Oct 30 12:22	0° \mathbb{M}	
	10963 Nov 23 14:56	0° \mathbb{X}		asc. node	10964 Nov 01 06:58	3° \mathbb{M} 13'24	
morning set	10963 Nov 25 11:23	3° \mathbb{X} 53'14		morning set	10964 Nov 08 23:11	18° \mathbb{M} 39'32	
					10964 Nov 14 03:58	0° \mathbb{X}	
superior conj	10963 Dec 02 10:27	18° \mathbb{X} 52'11	1°38'25	superior conj	10964 Nov 15 19:01	3° \mathbb{X} 34'42	1°39'07
minimum elong	10963 Dec 02 11:09	18° \mathbb{X} 55'56	1°38'59	minimum elong	10964 Nov 15 18:34	3° \mathbb{X} 32'13	1°39'38
max. Earth dist.	10963 Dec 05 13:35	25° \mathbb{X} 30'19	1.33577 AU	max. Earth dist.	10964 Nov 17 15:17	7° \mathbb{X} 36'28	1.32377 AU
	10963 Dec 07 17:49	0° \mathbb{Z}		evening rise	10964 Nov 23 01:52	19° \mathbb{X} 07'13	
evening rise	10963 Dec 10 06:55	5° \mathbb{Z} 06'32			10964 Nov 28 14:47	0° \mathbb{Z}	
desc. node	10963 Dec 18 23:23	21° \mathbb{Z} 11'43		desc. node	10964 Dec 04 20:26	11° \mathbb{Z} 06'34	
	10963 Dec 24 06:33	0° \approx			10964 Dec 17 12:29	0° \approx	
evening max el	10964 Jan 13 19:20	26° \approx 46'43	27°15'38	evening max el	10964 Dec 26 06:55	9° \approx 54'33	27°31'23
	10964 Jan 17 12:23	0° \mathbb{H}		retrograde	10965 Jan 09 01:23	17° \approx 14'34	
retrograde	10964 Jan 27 07:21	4° \mathbb{H} 10'22		evening set	10965 Jan 16 01:00	14° \approx 48'39	
evening set	10964 Feb 03 01:25	1° \mathbb{H} 37'29		min. Earth dist.	10965 Jan 19 18:57	11° \approx 40'25	0.63075 AU
	10964 Feb 04 23:07	30° \mathbb{R} \approx		inferior conj	10965 Jan 22 13:38	8° \approx 56'27	-1°52'23
min. Earth dist.	10964 Feb 06 22:46	27° \approx 59'36	0.64900 AU	minimum elong	10965 Jan 22 17:19	8° \approx 47'21	1°50'23
inferior conj	10964 Feb 09 06:46	25° \approx 26'04	-0°41'32	asc. node	10965 Jan 28 06:18	4° \approx 16'52	
minimum elong	10964 Feb 09 08:00	25° \approx 22'40	0°40'37	morning rise	10965 Jan 29 11:53	3° \approx 43'31	
asc. node	10964 Feb 11 09:04	23° \approx 12'39		direct	10965 Jan 31 19:48	3° \approx 17'48	
morning rise	10964 Feb 15 16:14	19° \approx 57'11		morning max el	10965 Feb 07 09:59	6° \approx 40'38	17°46'52
direct	10964 Feb 18 07:03	19° \approx 21'12			10965 Feb 22 18:09	0° \mathbb{H}	
morning max el	10964 Feb 24 16:21	22° \approx 41'39	17°56'34	morning set	10965 Feb 23 14:09	1° \mathbb{H} 26'57	
	10964 Mar 01 12:15	0° \mathbb{H}		desc. node	10965 Mar 02 20:38	13° \mathbb{H} 58'36	
morning set	10964 Mar 13 06:51	18° \mathbb{H} 55'28		superior conj	10965 Mar 07 17:05	22° \mathbb{H} 06'18	-0°36'03
desc. node	10964 Mar 15 23:56	23° \mathbb{H} 24'38		minimum elong	10965 Mar 07 13:22	21° \mathbb{H} 50'57	0°35'21
	10964 Mar 20 00:19	0° \mathbb{Y}			10965 Mar 12 13:12	0° \mathbb{Y}	
superior conj	10964 Mar 27 07:52	11° \mathbb{Y} 46'41	-1°18'04	max. Earth dist.	10965 Mar 14 01:01	2° \mathbb{Y} 23'44	1.44344 AU
minimum elong	10964 Mar 26 23:34	11° \mathbb{Y} 13'38	1°17'08	evening rise	10965 Mar 22 20:38	16° \mathbb{Y} 13'01	
max. Earth dist.	10964 Mar 31 06:44	18° \mathbb{Y} 01'39	1.45365 AU		10965 Mar 31 23:14	0° \mathbb{B}	
	10964 Apr 07 23:06	0° \mathbb{B}		evening max el	10965 Apr 21 10:08	27° \mathbb{B} 29'03	20°54'13
evening rise	10964 Apr 12 09:01	6° \mathbb{B} 48'13			10965 Apr 24 05:06	0° \mathbb{I}	
greatest brilliancy	10964 Apr 26 18:08	28° \mathbb{B} 33'07	-0.6m	asc. node	10965 Apr 26 04:02	1° \mathbb{I} 18'51	
	10964 Apr 27 17:58	0° \mathbb{I}		retrograde	10965 Apr 29 19:50	2° \mathbb{I} 23'32	
evening max el	10964 May 08 10:04	13° \mathbb{I} 45'15	19°49'11	evening set	10965 May 04 00:23	0° \mathbb{I} 44'24	
asc. node	10964 May 09 06:48	14° \mathbb{I} 35'35			10965 May 04 20:45	30° \mathbb{R} \mathbb{B}	
retrograde	10964 May 15 21:06	18° \mathbb{I} 00'46		inferior conj	10965 May 09 06:59	24° \mathbb{B} 33'50	3°07'54
evening set	10964 May 19 15:52	16° \mathbb{I} 37'35		minimum elong	10965 May 09 05:46	24° \mathbb{B} 38'04	3°07'17
inferior conj	10964 May 25 00:01	10° \mathbb{I} 39'26	3°16'42	min. Earth dist.	10965 May 09 18:27	23° \mathbb{B} 54'08	0.68317 AU
minimum elong	10964 May 24 23:45	10° \mathbb{I} 40'19	3°16'08	morning rise	10965 May 14 10:56	18° \mathbb{B} 17'16	
min. Earth dist.	10964 May 26 01:20	9° \mathbb{I} 14'35	0.67503 AU	direct	10965 May 19 19:15	15° \mathbb{B} 55'51	
morning rise	10964 May 30 07:19	4° \mathbb{I} 19'15		desc. node	10965 May 29 21:34	21° \mathbb{B} 42'17	
direct	10964 Jun 05 04:19	1° \mathbb{I} 42'55		morning max el	10965 May 30 12:36	22° \mathbb{B} 19'39	23°39'33
desc. node	10964 Jun 12 00:37	4° \mathbb{I} 24'39			10965 Jun 06 05:16	0° \mathbb{I}	
morning max el	10964 Jun 17 02:52	8° \mathbb{I} 52'35	25°08'04		10965 Jun 27 00:54	0° \mathbb{B}	
	10964 Jul 03 17:30	0° \mathbb{B}		morning set	10965 Jul 04 16:22	12° \mathbb{B} 32'41	
	10964 Jul 22 08:24	0° \mathbb{Q}		max. Earth dist.	10965 Jul 08 14:05	19° \mathbb{B} 17'06	1.38897 AU
morning set	10964 Jul 23 02:25	1° \mathbb{Q} 20'07			10965 Jul 14 12:36	0° \mathbb{Q}	
max. Earth dist.	10964 Jul 26 16:45	7° \mathbb{Q} 53'18	1.36643 AU	superior conj	10965 Jul 16 02:16	2° \mathbb{Q} 55'35	-1°03'25
superior conj	10964 Aug 02 03:08	20° \mathbb{Q} 12'57	-0°29'51	minimum elong	10965 Jul 16 06:35	3° \mathbb{Q} 15'51	1°03'14
minimum elong	10964 Aug 02 05:03	20° \mathbb{Q} 22'22	0°29'55	asc. node	10965 Jul 23 03:03	16° \mathbb{Q} 25'44	
asc. node	10964 Aug 05 06:10	26° \mathbb{Q} 27'20		evening rise	10965 Jul 25 06:47	20° \mathbb{Q} 37'56	
	10964 Aug 07 00:14	0° \mathbb{P}			10965 Jul 30 04:17	0° \mathbb{P}	
evening rise	10964 Aug 10 08:47	6° \mathbb{P} 48'34		evening max el	10965 Aug 10 11:59	16° \mathbb{P} 58'11	18°48'07
	10964 Aug 23 08:10	0° \mathbb{A}		retrograde	10965 Aug 18 21:19	21° \mathbb{P} 09'47	
evening max el	10964 Aug 27 14:00	5° \mathbb{A} 03'52	19°40'51	evening set	10965 Aug 20 19:38	20° \mathbb{P} 57'17	
retrograde	10964 Sep 06 12:17	9° \mathbb{A} 59'56		desc. node	10965 Aug 25 20:02	18° \mathbb{P} 44'53	
desc. node	10964 Sep 07 22:42	9° \mathbb{A} 54'11		inferior conj	10965 Aug 28 22:52	16° \mathbb{P} 36'25	-0°58'18
evening set	10964 Sep 08 09:01	9° \mathbb{A} 50'17		minimum elong	10965 Aug 28 20:26	16° \mathbb{P} 40'49	0°57'33
inferior conj	10964 Sep 17 05:11	5° \mathbb{A} 47'06	-2°51'00				

min. Earth dist.	10965 Sep 01 01:02	14° \mathbb{M} 22'39	0.56843 AU	desc. node	10966 Aug 12 17:20	26° Ω 21'18	
morning rise	10965 Sep 05 17:55	11° \mathbb{M} 37'08		min. Earth dist.	10966 Aug 13 22:43	25° Ω 20'35	0.58897 AU
direct	10965 Sep 11 09:44	10° \mathbb{M} 19'46		morning rise	10966 Aug 17 21:23	22° Ω 36'01	
morning max el	10965 Sep 25 16:14	17° \mathbb{M} 43'52	26°22'07	direct	10966 Aug 24 04:02	20° Ω 49'17	
	10965 Oct 05 20:54	0° Ω		morning max el	10966 Sep 07 12:58	28° Ω 35'44	27°27'53
asc. node	10965 Oct 19 03:48	22° Ω 32'50			10966 Sep 08 22:16	0° \mathbb{M}	
	10965 Oct 22 20:02	0° \mathbb{M}			10966 Sep 29 16:19	0° Ω	
morning set	10965 Oct 24 09:51	3° \mathbb{M} 19'48		asc. node	10966 Oct 06 00:35	12° Ω 11'41	
				morning set	10966 Oct 08 17:36	17° Ω 48'13	
					10966 Oct 14 08:13	0° \mathbb{M}	
superior conj	10965 Oct 31 06:09	18° \mathbb{M} 21'58	1°33'51	superior conj	10966 Oct 15 17:54	3° \mathbb{M} 07'19	1°22'59
minimum elong	10965 Oct 31 04:45	18° \mathbb{M} 14'10	1°34'11	minimum elong	10966 Oct 15 15:52	2° \mathbb{M} 55'58	1°23'02
max. Earth dist.	10965 Oct 31 22:33	19° \mathbb{M} 52'59	1.31652 AU	max. Earth dist.	10966 Oct 15 07:48	2° \mathbb{M} 11'04	1.31410 AU
	10965 Nov 05 13:26	0° \mathbb{M}		evening rise	10966 Oct 22 11:41	17° \mathbb{M} 57'02	
evening rise	10965 Nov 07 04:17	3° \mathbb{M} 26'31			10966 Oct 28 08:59	0° \mathbb{M}	
	10965 Nov 21 09:23	0° \mathbb{M}		desc. node	10966 Nov 08 14:46	19° \mathbb{M} 19'21	
desc. node	10965 Nov 21 17:35	0° \mathbb{M} 33'05			10966 Nov 16 17:14	0° \mathbb{M}	
evening max el	10965 Dec 08 14:04	22° \mathbb{M} 23'17	27°14'52	evening max el	10966 Nov 20 14:10	4° \mathbb{M} 02'23	26°24'11
retrograde	10965 Dec 22 11:29	29° \mathbb{M} 36'38		retrograde	10966 Dec 04 12:33	11° \mathbb{M} 08'22	
evening set	10965 Dec 29 10:35	27° \mathbb{M} 26'23		evening set	10966 Dec 11 02:00	9° \mathbb{M} 23'22	
min. Earth dist.	10966 Jan 02 04:33	24° \mathbb{M} 40'48	0.61026 AU	min. Earth dist.	10966 Dec 15 03:39	6° \mathbb{M} 48'02	0.58897 AU
inferior conj	10966 Jan 05 07:03	21° \mathbb{M} 59'21	-3°08'30	inferior conj	10966 Dec 18 07:28	4° \mathbb{M} 24'54	-4°23'07
minimum elong	10966 Jan 05 13:26	21° \mathbb{M} 45'29	3°05'37	minimum elong	10966 Dec 18 15:33	4° \mathbb{M} 09'35	4°20'14
morning rise	10966 Jan 12 18:57	17° \mathbb{M} 05'42			10966 Dec 25 21:22	30° \mathbb{M}	
direct	10966 Jan 14 22:34	16° \mathbb{M} 46'42		morning rise	10966 Dec 26 07:49	29° \mathbb{M} 53'05	
asc. node	10966 Jan 15 03:26	16° \mathbb{M} 46'52		direct	10966 Dec 28 11:00	29° \mathbb{M} 37'23	
morning max el	10966 Jan 22 01:39	20° \mathbb{M} 21'29	17°55'26		10966 Dec 30 22:55	0° \mathbb{M}	
	10966 Jan 29 06:05	0° \mathbb{M}		asc. node	10967 Jan 02 00:32	0° \mathbb{M} 53'42	
morning set	10966 Feb 06 16:29	14° \mathbb{M} 51'42		morning max el	10967 Jan 05 11:42	3° \mathbb{M} 33'53	18°23'43
	10966 Feb 15 01:46	0° \mathbb{M}		morning set	10967 Jan 21 08:11	28° \mathbb{M} 52'48	
					10967 Jan 21 22:14	0° \mathbb{M}	
superior conj	10966 Feb 17 03:19	3° \mathbb{M} 37'03	0°04'31	superior conj	10967 Jan 30 11:49	16° \mathbb{M} 10'04	0°38'54
minimum elong	10966 Feb 17 03:44	3° \mathbb{M} 38'51	0°04'47	minimum elong	10967 Jan 30 14:23	16° \mathbb{M} 21'54	0°38'57
behind sun begin	10966 Feb 16 19:51	3° \mathbb{M} 04'34		desc. node	10967 Feb 04 14:11	25° \mathbb{M} 19'31	
behind sun end	10966 Feb 17 11:36	4° \mathbb{M} 13'02		max. Earth dist.	10967 Feb 07 00:13	29° \mathbb{M} 31'19	1.40687 AU
desc. node	10966 Feb 17 17:24	4° \mathbb{M} 38'07			10967 Feb 07 06:55	0° \mathbb{M}	
max. Earth dist.	10966 Feb 24 15:11	16° \mathbb{M} 17'46	1.42723 AU	evening rise	10967 Feb 11 10:42	6° \mathbb{M} 58'56	
evening rise	10966 Mar 02 18:03	26° \mathbb{M} 09'31			10967 Feb 26 07:18	0° \mathbb{M}	
	10966 Mar 05 04:53	0° \mathbb{M}		evening max el	10967 Mar 17 20:00	25° \mathbb{M} 00'51	23°29'39
	10966 Mar 25 19:43	0° \mathbb{M}			10967 Mar 24 01:20	0° \mathbb{M}	
evening max el	10966 Apr 04 04:52	11° \mathbb{M} 13'30	22°09'24	retrograde	10967 Mar 28 12:24	1° \mathbb{M} 19'11	
asc. node	10966 Apr 13 01:17	16° \mathbb{M} 48'59		asc. node	10967 Mar 30 22:31	0° \mathbb{M} 51'24	
retrograde	10966 Apr 13 17:24	16° \mathbb{M} 51'11			10967 Apr 01 13:17	30° \mathbb{M}	
evening set	10966 Apr 18 08:39	14° \mathbb{M} 56'42		evening set	10967 Apr 02 15:07	29° \mathbb{M} 10'45	
inferior conj	10966 Apr 23 15:56	8° \mathbb{M} 36'06	2°48'34	min. Earth dist.	10967 Apr 07 11:17	23° \mathbb{M} 30'15	0.68578 AU
minimum elong	10966 Apr 23 14:03	8° \mathbb{M} 42'41	2°47'51	inferior conj	10967 Apr 08 00:56	22° \mathbb{M} 43'21	2°19'30
min. Earth dist.	10966 Apr 23 14:30	8° \mathbb{M} 41'05	0.68671 AU	minimum elong	10967 Apr 07 22:45	22° \mathbb{M} 50'50	2°18'43
morning rise	10966 Apr 28 19:17	2° \mathbb{M} 24'33		morning rise	10967 Apr 13 06:21	16° \mathbb{M} 38'05	
direct	10966 May 03 14:07	0° \mathbb{M} 22'42		direct	10967 Apr 17 11:57	14° \mathbb{M} 57'42	
morning max el	10966 May 13 00:33	5° \mathbb{M} 54'45	22°10'34	morning max el	10967 Apr 25 17:56	19° \mathbb{M} 40'47	20°49'04
desc. node	10966 May 16 18:28	10° \mathbb{M} 01'24		desc. node	10967 May 03 15:17	29° \mathbb{M} 05'34	
	10966 May 31 12:52	0° \mathbb{M}			10967 May 04 07:31	0° \mathbb{M}	
morning set	10966 Jun 15 04:49	22° \mathbb{M} 35'10			10967 May 24 16:38	0° \mathbb{M}	
	10966 Jun 19 17:17	0° \mathbb{M}		morning set	10967 May 25 16:15	1° \mathbb{M} 31'44	
max. Earth dist.	10966 Jun 20 13:17	1° \mathbb{M} 23'36	1.41165 AU	max. Earth dist.	10967 Jun 02 18:35	14° \mathbb{M} 23'06	1.43175 AU
superior conj	10966 Jun 28 07:39	14° \mathbb{M} 47'52	-1°35'20	superior conj	10967 Jun 09 15:02	25° \mathbb{M} 41'41	-2°00'39
minimum elong	10966 Jun 28 13:56	15° \mathbb{M} 15'46	1°35'11	minimum elong	10967 Jun 09 20:59	26° \mathbb{M} 06'43	2°00'52
	10966 Jul 06 15:41	0° \mathbb{M}			10967 Jun 12 03:59	0° \mathbb{M}	
evening rise	10966 Jul 08 18:14	3° \mathbb{M} 55'24		evening rise	10967 Jun 21 14:49	16° \mathbb{M} 30'51	
asc. node	10966 Jul 09 23:58	6° \mathbb{M} 13'44		asc. node	10967 Jun 26 20:55	25° \mathbb{M} 47'02	
evening max el	10966 Jul 24 19:06	29° \mathbb{M} 31'06	18°16'20		10967 Jun 29 08:08	0° \mathbb{M}	
	10966 Jul 25 07:11	0° \mathbb{M}		evening max el	10967 Jul 08 07:26	12° \mathbb{M} 33'38	18°04'18
retrograde	10966 Aug 01 01:18	3° \mathbb{M} 11'02		retrograde	10967 Jul 14 21:36	15° \mathbb{M} 56'44	
evening set	10966 Aug 03 06:18	2° \mathbb{M} 51'22		evening set	10967 Jul 17 10:35	15° \mathbb{M} 26'20	
	10966 Aug 08 08:34	30° \mathbb{M}					
inferior conj	10966 Aug 10 14:17	28° \mathbb{M} 10'11	0°38'22				
minimum elong	10966 Aug 10 15:33	28° \mathbb{M} 07'28	0°37'31				

inferior conj	10967 Jul 24 01:30	10°Ω25'25	1°50'08	inferior conj	10968 Jul 06 04:34	23°♄14'17	2°37'48
minimum elong	10967 Jul 24 04:11	10°Ω18'51	1°48'49	minimum elong	10968 Jul 06 07:03	23°♄07'24	2°36'41
min. Earth dist.	10967 Jul 27 04:42	7°Ω22'26	0.61173 AU	min. Earth dist.	10968 Jul 08 19:47	20°♄20'29	0.63377 AU
morning rise	10967 Jul 30 19:10	4°Ω26'23		morning rise	10968 Jul 12 09:31	17°♄00'44	
desc. node	10967 Jul 30 14:34	4°Ω34'11		desc. node	10968 Jul 16 11:45	14°♄49'34	
direct	10967 Aug 06 10:28	2°Ω12'06		direct	10968 Jul 19 02:23	14°♄26'53	
morning max el	10967 Aug 20 16:27	10°Ω11'36	27°56'21	morning max el	10968 Aug 02 00:41	22°♄29'12	27°46'42
	10967 Sep 05 02:17	0°♐			10968 Aug 08 15:28	0°Ω	
	10967 Sep 21 21:13	0°♄			10968 Aug 28 07:58	0°♐	
morning set	10967 Sep 22 20:31	1°♄59'37		morning set	10968 Sep 05 16:25	15°♐48'07	
asc. node	10967 Sep 22 21:23	2°♄04'03		asc. node	10968 Sep 08 18:09	22°♐04'56	
max. Earth dist.	10967 Sep 28 15:21	14°♄21'07	1.31662 AU	max. Earth dist.	10968 Sep 10 17:27	26°♐13'35	1.32423 AU
					10968 Sep 12 11:46	0°♄	
superior conj	10967 Sep 30 04:26	17°♄45'14	1°06'44	superior conj	10968 Sep 13 11:52	2°♄10'12	0°45'21
minimum elong	10967 Sep 30 02:11	17°♄32'51	1°06'30	minimum elong	10968 Sep 13 09:56	1°♄59'47	0°44'57
	10967 Oct 05 17:42	0°♌			10968 Sep 20 09:26	17°♄09'51	
evening rise	10967 Oct 06 22:01	2°♌33'15		evening rise	10968 Sep 26 15:55	0°♌	
	10967 Oct 21 12:15	0°♊			10968 Oct 12 09:15	23°♌43'41	
desc. node	10967 Oct 26 11:59	7°♊09'55		desc. node	10968 Oct 13 17:02	25°♌03'57	23°25'10
evening max el	10967 Nov 02 06:12	14°♊51'02	25°03'34	evening max el	10968 Oct 20 07:53	0°♊	
retrograde	10967 Nov 16 02:29	21°♊47'59		retrograde	10968 Oct 27 03:19	1°♊45'32	
evening set	10967 Nov 21 18:38	20°♊35'23		evening set	10968 Oct 31 11:20	1°♊04'44	
min. Earth dist.	10967 Nov 26 18:07	17°♊53'07	0.56930 AU		10968 Nov 03 06:19	30°♌♌	
inferior conj	10967 Nov 29 12:01	16°♊04'48	-5°22'55	min. Earth dist.	10968 Nov 07 02:55	27°♌57'13	0.55416 AU
minimum elong	10967 Nov 29 18:31	15°♊54'05	5°21'19	inferior conj	10968 Nov 08 20:36	26°♌56'08	-5°47'38
morning rise	10967 Dec 07 20:40	11°♊54'57		minimum elong	10968 Nov 08 20:30	26°♌56'17	5°47'09
direct	10967 Dec 10 05:18	11°♊38'58		morning rise	10968 Nov 17 07:27	23°♌04'00	
morning max el	10967 Dec 19 12:10	16°♊06'39	19°13'32	direct	10968 Nov 20 04:45	22°♌43'45	
asc. node	10967 Dec 19 21:37	16°♊29'50		morning max el	10968 Nov 30 23:42	27°♌50'23	20°26'15
	10967 Dec 29 09:38	0°♋			10968 Dec 03 01:45	0°♊	
morning set	10968 Jan 05 08:58	13°♋17'30		asc. node	10968 Dec 05 18:37	3°♊20'04	
superior conj	10968 Jan 13 13:45	29°♋31'19	1°05'26	morning set	10968 Dec 19 15:43	27°♊57'15	
minimum elong	10968 Jan 13 16:47	29°♋45'59	1°05'34		10968 Dec 20 15:34	0°♋	
	10968 Jan 13 19:41	0°♎		superior conj	10968 Dec 27 04:40	13°♋28'35	1°23'59
max. Earth dist.	10968 Jan 20 06:20	12°♎03'34	1.38480 AU	minimum elong	10968 Dec 27 07:07	13°♋41'00	1°24'21
desc. node	10968 Jan 22 10:58	15°♎58'47		max. Earth dist.	10969 Jan 01 14:03	24°♋07'38	1.36343 AU
evening rise	10968 Jan 24 00:47	18°♎44'22			10969 Jan 04 16:53	0°♎	
	10968 Jan 30 18:12	0°♏		evening rise	10969 Jan 05 10:17	1°♎20'00	
	10968 Feb 20 13:42	0°♑		desc. node	10969 Jan 08 07:50	6°♎32'35	
evening max el	10968 Feb 28 09:36	8°♑50'53	24°48'38		10969 Jan 22 21:03	0°♏	
retrograde	10968 Mar 11 03:28	15°♑41'26		evening max el	10969 Feb 09 23:09	22°♏40'52	25°59'05
evening set	10968 Mar 16 18:12	13°♑21'00		retrograde	10969 Feb 22 13:39	29°♏52'25	
asc. node	10968 Mar 16 19:47	13°♑17'36		evening set	10969 Feb 28 16:19	27°♏23'04	
min. Earth dist.	10968 Mar 21 06:32	8°♑15'42	0.68060 AU	asc. node	10969 Mar 03 17:03	24°♏19'42	
inferior conj	10968 Mar 22 08:06	6°♑51'04	1°40'58	min. Earth dist.	10969 Mar 04 22:03	22°♏52'42	0.67137 AU
minimum elong	10968 Mar 22 06:05	6°♑57'44	1°40'17	inferior conj	10969 Mar 06 11:32	20°♏55'38	0°53'02
morning rise	10968 Mar 27 18:11	0°♑53'29		minimum elong	10969 Mar 06 10:15	20°♏59'38	0°52'42
	10968 Mar 29 08:19	30°♏♏		morning rise	10969 Mar 12 04:49	15°♏07'33	
direct	10968 Mar 31 11:18	29°♏34'18		direct	10969 Mar 15 10:37	14°♏07'39	
	10968 Apr 02 16:18	0°♑		morning max el	10969 Mar 22 03:17	17°♏44'48	18°46'51
morning max el	10968 Apr 07 18:49	3°♑38'07	19°40'15		10969 Mar 31 15:10	0°♑	
desc. node	10968 Apr 19 12:02	18°♑41'56		desc. node	10969 Apr 06 08:45	8°♑42'00	
greatest brilliancy	10968 Apr 20 12:39	20°♑11'43	-0.6m	morning set	10969 Apr 13 01:33	19°♑07'12	
	10968 Apr 27 02:14	0°♒			10969 Apr 20 00:52	0°♒	
morning set	10968 May 03 15:24	10°♒00'04		max. Earth dist.	10969 Apr 28 00:38	12°♒29'00	1.45538 AU
max. Earth dist.	10968 May 15 06:57	28°♒09'51	1.44689 AU				
	10968 May 16 10:43	0°♓		superior conj	10969 Apr 29 09:52	14°♒39'11	-2°06'06
superior conj	10968 May 19 22:11	5°♓33'42	-2°12'53	minimum elong	10969 Apr 29 03:41	14°♒14'54	2°06'12
minimum elong	10968 May 19 23:26	5°♓38'42	2°13'24		10969 May 09 03:01	0°♓	
evening rise	10968 Jun 02 15:31	28°♓12'42		evening rise	10969 May 14 16:40	8°♓54'59	
	10968 Jun 03 16:58	0°♈		greatest brilliancy	10969 May 20 23:10	19°♓00'10	-0.9m
asc. node	10968 Jun 12 17:55	14°♈59'30			10969 May 28 00:28	0°♈	
evening max el	10968 Jun 20 21:20	25°♈56'09	18°11'04	asc. node	10969 May 30 14:59	3°♈44'07	
retrograde	10968 Jun 27 05:56	29°♈17'08		evening max el	10969 Jun 04 09:47	9°♈30'58	18°35'53
evening set	10968 Jun 30 02:58	28°♈33'26		retrograde	10969 Jun 10 22:17	13°♈03'43	

evening set	10969 Jun 14 03:22	12°♄05'13			10970 May 02 01:33	0°♄	
inferior conj	10969 Jun 19 19:31	6°♄29'30	3°05'17	greatest brilliancy	10970 May 06 18:48	7°♄12'15	-0.7m
minimum elong	10969 Jun 19 21:03	6°♄24'49	3°04'28	asc. node	10970 May 17 12:07	21°♄51'34	
min. Earth dist.	10969 Jun 21 20:03	4°♄02'21	0.65298 AU	evening max el	10970 May 18 18:23	23°♄11'54	19°17'52
morning rise	10969 Jun 25 13:53	0°♄09'21		retrograde	10970 May 25 19:11	27°♄09'02	
	10969 Jun 25 18:22	30°♄		evening set	10970 May 29 08:42	25°♄54'59	
direct	10969 Jul 02 02:08	27°♄26'32		inferior conj	10970 Jun 03 18:53	20°♄04'23	3°16'28
desc. node	10969 Jul 03 08:53	27°♄32'12		minimum elong	10970 Jun 03 19:16	20°♄03'09	3°15'51
	10969 Jul 09 04:45	0°♄		min. Earth dist.	10970 Jun 05 04:28	18°♄15'00	0.66821 AU
morning max el	10969 Jul 15 11:18	5°♄20'05	27°03'36	morning rise	10970 Jun 09 05:22	13°♄43'00	
	10969 Aug 03 07:02	0°♄		direct	10970 Jun 15 08:40	11°♄01'45	
morning set	10969 Aug 20 02:27	29°♄06'28		desc. node	10970 Jun 20 05:58	12°♄24'31	
	10969 Aug 20 13:32	0°♄		morning max el	10970 Jun 27 22:05	18°♄32'30	25°55'10
max. Earth dist.	10969 Aug 24 10:51	7°♄42'53	1.33699 AU		10970 Jul 07 14:06	0°♄	
asc. node	10969 Aug 26 14:56	12°♄09'55			10970 Jul 27 07:43	0°♄	
				morning set	10970 Aug 02 23:07	11°♄45'56	
superior conj	10969 Aug 28 14:01	16°♄15'57	0°19'10	max. Earth dist.	10970 Aug 06 17:54	18°♄52'26	1.35453 AU
minimum elong	10969 Aug 28 13:03	16°♄10'52	0°18'46				
	10969 Sep 04 00:55	0°♄		superior conj	10970 Aug 12 08:21	29°♄56'09	-0°11'05
evening rise	10969 Sep 04 20:03	1°♄41'13		minimum elong	10970 Aug 12 09:01	29°♄59'34	0°11'18
	10969 Sep 20 17:44	0°♄		behind sun begin	10970 Aug 12 04:38	29°♄37'20	
evening max el	10969 Sep 25 06:39	5°♄13'01	21°46'07	behind sun end	10970 Aug 12 13:25	0°♄21'50	
desc. node	10969 Sep 29 06:33	8°♄32'38			10970 Aug 12 09:06	0°♄	
retrograde	10969 Oct 07 17:28	11°♄24'37		asc. node	10970 Aug 13 11:44	2°♄15'28	
evening set	10969 Oct 10 15:22	11°♄05'28		evening rise	10970 Aug 20 03:47	16°♄01'49	
inferior conj	10969 Oct 19 14:58	7°♄08'30	-5°18'02		10970 Aug 27 06:21	0°♄	
minimum elong	10969 Oct 19 07:02	7°♄19'36	5°16'20	evening max el	10970 Sep 07 07:41	15°♄53'56	20°20'49
min. Earth dist.	10969 Oct 19 09:43	7°♄15'52	0.54645 AU	desc. node	10970 Sep 16 03:53	21°♄07'58	
morning rise	10969 Oct 27 23:56	3°♄20'54		retrograde	10970 Sep 18 05:54	21°♄19'28	
direct	10969 Oct 31 14:36	2°♄52'29		evening set	10970 Sep 20 06:32	21°♄09'05	
morning max el	10969 Nov 12 21:42	8°♄42'37	22°00'07	inferior conj	10970 Sep 29 08:15	17°♄11'45	-3°54'13
asc. node	10969 Nov 22 15:35	21°♄07'27		minimum elong	10970 Sep 28 22:38	17°♄25'52	3°51'03
	10969 Nov 27 17:48	0°♄		min. Earth dist.	10970 Sep 30 18:14	16°♄21'54	0.54805 AU
morning set	10969 Dec 04 01:56	12°♄43'37		morning rise	10970 Oct 07 14:02	13°♄07'17	
				direct	10970 Oct 11 23:42	12°♄25'30	
superior conj	10969 Dec 11 04:41	27°♄49'57	1°35'07	morning max el	10970 Oct 25 10:39	18°♄58'29	23°46'39
minimum elong	10969 Dec 11 06:04	27°♄57'14	1°35'39		10970 Nov 03 13:50	0°♄	
	10969 Dec 12 05:29	0°♄		asc. node	10970 Nov 09 12:30	9°♄38'44	
max. Earth dist.	10969 Dec 15 03:26	6°♄00'34	1.34471 AU	morning set	10970 Nov 18 13:40	27°♄31'04	
evening rise	10969 Dec 19 11:30	14°♄35'12			10970 Nov 19 17:27	0°♄	
desc. node	10969 Dec 26 04:47	26°♄55'37					
	10969 Dec 27 23:28	0°♄		superior conj	10970 Nov 25 10:51	12°♄26'43	1°39'28
	10970 Jan 17 14:54	0°♄		minimum elong	10970 Nov 25 11:03	12°♄27'47	1°40'02
evening max el	10970 Jan 23 12:40	6°♄22'29	26°53'53	max. Earth dist.	10970 Nov 28 00:32	17°♄58'17	1.33004 AU
retrograde	10970 Feb 05 18:15	13°♄44'29		evening rise	10970 Dec 03 00:52	28°♄21'17	
evening set	10970 Feb 12 07:34	11°♄10'48			10970 Dec 03 20:40	0°♄	
min. Earth dist.	10970 Feb 16 07:35	7°♄14'36	0.65824 AU	desc. node	10970 Dec 13 01:48	17°♄02'22	
inferior conj	10970 Feb 18 09:02	4°♄51'44	-0°04'20		10970 Dec 21 03:57	0°♄	
minimum elong	10970 Feb 18 09:09	4°♄51'25	0°03'58	evening max el	10971 Jan 06 01:15	19°♄45'16	27°25'54
transit middle	10970 Feb 18 09:09	4°♄51'25	0°03'58	retrograde	10971 Jan 19 16:36	27°♄08'48	
transit begin	10970 Feb 18 06:16	4°♄59'44		evening set	10971 Jan 26 13:41	24°♄37'30	
transit end	10970 Feb 18 12:01	4°♄43'06		min. Earth dist.	10971 Jan 30 09:10	21°♄13'03	0.64157 AU
asc. node	10970 Feb 18 14:19	4°♄36'28		inferior conj	10971 Feb 01 22:04	18°♄33'19	-1°10'41
	10970 Feb 23 06:46	30°♄		minimum elong	10971 Feb 02 00:16	18°♄27'30	1°09'19
morning rise	10970 Feb 24 11:58	29°♄15'22		asc. node	10971 Feb 05 11:34	15°♄06'47	
direct	10970 Feb 27 07:48	28°♄31'43		morning rise	10971 Feb 08 12:49	13°♄11'10	
	10970 Mar 03 10:47	0°♄		direct	10971 Feb 11 00:22	12°♄40'07	
morning max el	10970 Mar 05 17:34	1°♄54'52	18°10'03	morning max el	10971 Feb 17 10:53	16°♄00'23	17°50'18
desc. node	10970 Mar 24 05:29	28°♄59'07			10971 Feb 27 12:02	0°♄	
morning set	10970 Mar 24 14:33	29°♄35'47		morning set	10971 Mar 06 07:56	11°♄27'06	
	10970 Mar 24 20:33	0°♄		desc. node	10971 Mar 11 02:12	19°♄28'06	
					10971 Mar 17 11:21	0°♄	
superior conj	10970 Apr 08 16:50	23°♄39'16	-1°39'41				
minimum elong	10970 Apr 08 07:22	23°♄02'03	1°38'58	superior conj	10971 Mar 19 13:08	3°♄21'43	-1°00'32
max. Earth dist.	10970 Apr 10 20:36	27°♄02'06	1.45641 AU	minimum elong	10971 Mar 19 06:37	2°♄55'23	0°59'38
	10970 Apr 12 18:08	0°♄		max. Earth dist.	10971 Mar 24 15:43	11°♄30'58	1.45008 AU
evening rise	10970 Apr 24 19:06	18°♄44'14		evening rise	10971 Apr 04 07:45	28°♄06'20	

	10971 Apr 05 13:27	0°♄		minimum elong	10972 Feb 28 07:18	14°♄04'49	0°17'50
	10971 Apr 26 01:26	0°♄		max. Earth dist.	10972 Mar 06 08:03	25°♄41'42	1.43714 AU
evening max el	10971 May 01 21:38	6°♄54'54	20°15'19		10972 Mar 09 00:28	0°♄	
asc. node	10971 May 04 09:18	9°♄09'37		evening rise	10972 Mar 13 21:58	7°♄41'30	
retrograde	10971 May 09 17:53	11°♄26'40			10972 Mar 28 19:26	0°♄	
evening set	10971 May 13 16:35	9°♄56'50		evening max el	10972 Apr 13 19:24	20°♄39'41	21°25'13
inferior conj	10971 May 18 23:47	3°♄53'02	3°14'21	asc. node	10972 Apr 20 06:31	25°♄24'16	
minimum elong	10971 May 18 23:05	3°♄55'25	3°13'46	retrograde	10972 Apr 22 16:17	25°♄52'21	
min. Earth dist.	10971 May 19 19:07	2°♄47'06	0.67902 AU	evening set	10972 Apr 27 01:12	24°♄06'51	
	10971 May 21 22:32	30°♄		inferior conj	10972 May 02 07:52	17°♄51'51	3°00'55
morning rise	10971 May 24 05:17	27°♄33'53		minimum elong	10972 May 02 06:19	17°♄57'13	3°00'16
direct	10971 May 29 20:59	25°♄03'05		min. Earth dist.	10972 May 02 13:50	17°♄31'02	0.68527 AU
desc. node	10971 Jun 07 02:58	28°♄56'47		morning rise	10972 May 07 11:14	11°♄37'05	
	10971 Jun 08 07:56	0°♄		direct	10972 May 12 13:55	9°♄23'18	
morning max el	10971 Jun 10 07:51	1°♄55'20	24°30'58	morning max el	10972 May 22 17:58	15°♄25'21	23°01'06
	10971 Jul 01 15:02	0°♄		desc. node	10972 May 23 23:54	16°♄43'08	
morning set	10971 Jul 16 01:44	23°♄33'53			10972 Jun 03 15:48	0°♄	
max. Earth dist.	10971 Jul 19 16:30	29°♄59'49	1.37580 AU		10972 Jun 23 14:31	0°♄	
	10971 Jul 19 16:32	0°♄		morning set	10972 Jun 26 05:13	4°♄17'31	
				max. Earth dist.	10972 Jun 30 13:27	11°♄37'39	1.39884 AU
superior conj	10971 Jul 26 15:32	13°♄02'04	-0°44'04				
minimum elong	10971 Jul 26 18:27	13°♄16'09	0°44'01	superior conj	10972 Jul 08 07:42	25°♄24'44	-1°17'24
asc. node	10971 Jul 31 08:34	22°♄17'15		minimum elong	10972 Jul 08 12:59	25°♄48'59	1°17'13
evening rise	10971 Aug 04 06:08	0°♄04'14			10972 Jul 10 19:12	0°♄	
	10971 Aug 04 05:17	0°♄		asc. node	10972 Jul 17 05:26	12°♄11'33	
evening max el	10971 Aug 20 22:40	27°♄21'41	19°15'49	evening rise	10972 Jul 18 00:06	13°♄40'51	
	10971 Aug 24 03:20	0°♄			10972 Jul 26 22:53	0°♄	
retrograde	10971 Aug 30 04:28	1°♄57'31		evening max el	10972 Aug 03 01:05	9°♄33'45	18°32'05
evening set	10971 Sep 01 00:39	1°♄47'21		retrograde	10972 Aug 10 21:15	13°♄29'33	
desc. node	10971 Sep 03 01:13	1°♄14'17		evening set	10972 Aug 12 22:15	13°♄14'24	
	10971 Sep 05 18:20	30°♄		desc. node	10972 Aug 19 22:31	9°♄21'11	
inferior conj	10971 Sep 09 14:25	27°♄37'43	-2°02'24	inferior conj	10972 Aug 20 17:15	8°♄45'09	-0°14'27
minimum elong	10971 Sep 09 09:01	27°♄46'41	2°00'24	minimum elong	10972 Aug 20 16:41	8°♄46'15	0°14'30
min. Earth dist.	10971 Sep 12 06:31	25°♄51'47	0.55885 AU	transit middle	10972 Aug 20 16:41	8°♄46'15	0°14'30
morning rise	10971 Sep 17 14:35	23°♄00'02		transit begin	10972 Aug 20 15:06	8°♄49'18	
direct	10971 Sep 22 20:01	21°♄57'21		transit end	10972 Aug 20 18:15	8°♄43'11	
morning max el	10971 Oct 06 22:11	29°♄05'56	25°30'30	min. Earth dist.	10972 Aug 23 23:57	6°♄13'37	0.57679 AU
	10971 Oct 07 20:17	0°♄		morning rise	10972 Aug 28 07:37	3°♄30'22	
asc. node	10971 Oct 27 09:22	28°♄42'56		direct	10972 Sep 03 06:41	2°♄00'28	
	10971 Oct 28 01:25	0°♄		morning max el	10972 Sep 17 14:31	9°♄34'50	26°54'15
morning set	10971 Nov 03 01:09	12°♄14'50			10972 Oct 03 04:41	0°♄	
				asc. node	10972 Oct 13 06:10	18°♄11'11	
superior conj	10971 Nov 09 20:45	27°♄11'51	1°37'35	morning set	10972 Oct 17 10:44	26°♄50'03	
minimum elong	10971 Nov 09 19:52	27°♄06'57	1°38'03		10972 Oct 18 22:07	0°♄	
max. Earth dist.	10971 Nov 11 04:41	0°♄07'45	1.32002 AU				
	10971 Nov 11 03:16	0°♄		superior conj	10972 Oct 24 08:20	11°♄58'36	1°29'55
evening rise	10971 Nov 16 23:18	12°♄30'27		minimum elong	10972 Oct 24 06:37	11°♄49'02	1°30'08
	10971 Nov 26 00:32	0°♄		max. Earth dist.	10972 Oct 24 13:11	12°♄25'37	1.31488 AU
desc. node	10971 Nov 29 22:53	6°♄46'02		evening rise	10972 Oct 31 04:04	26°♄55'10	
	10971 Dec 16 20:30	0°♄			10972 Nov 01 15:16	0°♄	
evening max el	10971 Dec 19 11:15	2°♄37'57	27°28'39	desc. node	10972 Nov 15 20:02	25°♄56'45	
retrograde	10972 Jan 02 07:45	9°♄56'08			10972 Nov 18 12:16	0°♄	
evening set	10972 Jan 09 07:50	7°♄35'47		evening max el	10972 Nov 30 15:55	14°♄47'10	26°57'37
min. Earth dist.	10972 Jan 13 01:08	4°♄38'09	0.62212 AU	retrograde	10972 Dec 14 14:06	21°♄56'52	
inferior conj	10972 Jan 15 23:39	1°♄53'19	-2°24'21	evening set	10972 Dec 21 10:13	19°♄56'40	
minimum elong	10972 Jan 16 04:30	1°♄41'56	2°21'54	min. Earth dist.	10972 Dec 25 06:22	17°♄17'01	0.60111 AU
	10972 Jan 18 01:35	30°♄		inferior conj	10972 Dec 28 10:17	14°♄41'37	-3°41'01
morning rise	10972 Jan 23 03:42	26°♄48'11		minimum elong	10972 Dec 28 17:37	14°♄26'33	3°37'58
asc. node	10972 Jan 23 08:46	26°♄44'12		morning rise	10973 Jan 05 03:43	9°♄56'39	
direct	10972 Jan 25 09:15	26°♄25'52		direct	10973 Jan 07 06:35	9°♄39'26	
morning max el	10972 Feb 01 04:08	29°♄53'04	17°48'13	asc. node	10973 Jan 09 05:55	9°♄54'59	
	10972 Feb 01 06:56	0°♄		morning max el	10973 Jan 14 17:48	13°♄22'34	18°04'56
morning set	10972 Feb 17 00:10	24°♄23'57			10973 Jan 25 23:14	0°♄	
	10972 Feb 20 03:59	0°♄		morning set	10973 Jan 30 08:48	8°♄06'01	
desc. node	10972 Feb 25 22:56	10°♄05'01					
				superior conj	10973 Feb 09 05:13	26°♄10'27	0°20'00
superior conj	10972 Feb 28 09:04	14°♄12'15	-0°18'21	minimum elong	10973 Feb 09 06:48	26°♄17'28	0°20'08

	10973 Feb 11 09:15	0°♄		superior conj	10974 Jan 22 21:44	9°♄05'35	0°51'08
desc. node	10973 Feb 11 19:40	0°♄45'31		minimum elong	10974 Jan 23 00:40	9°♄19'23	0°51'12
max. Earth dist.	10973 Feb 16 20:15	9°♄20'22	1.41896 AU	desc. node	10974 Jan 29 16:27	21°♄26'19	
evening rise	10973 Feb 22 02:54	17°♄59'17		max. Earth dist.	10974 Jan 30 04:04	22°♄17'18	1.39757 AU
	10973 Mar 01 19:30	0°♅		evening rise	10974 Feb 03 04:41	29°♄12'21	
	10973 Mar 23 11:34	0°♅			10974 Feb 03 16:01	0°♄	
evening max el	10973 Mar 27 12:31	4°♅25'48	22°43'16		10974 Feb 23 06:26	0°♅	
retrograde	10973 Apr 06 12:47	10°♅20'44		evening max el	10974 Mar 10 02:44	18°♅13'59	24°03'46
asc. node	10973 Apr 07 03:46	10°♅18'51		retrograde	10974 Mar 21 06:09	24°♅46'57	
evening set	10973 Apr 11 08:52	8°♅20'10		asc. node	10974 Mar 25 01:02	23°♅40'23	
inferior conj	10973 Apr 16 17:03	1°♅56'30	2°37'23	evening set	10974 Mar 26 14:05	22°♅32'50	
minimum elong	10973 Apr 16 14:59	2°♅03'39	2°36'38	min. Earth dist.	10974 Mar 31 06:40	17°♅07'38	0.68412 AU
min. Earth dist.	10973 Apr 16 10:24	2°♅19'36	0.68693 AU	inferior conj	10974 Apr 01 01:28	16°♅03'54	2°04'18
	10973 Apr 18 03:01	30°♅		minimum elong	10974 Mar 31 23:18	16°♅11'15	2°03'32
morning rise	10973 Apr 21 20:59	25°♅47'36		morning rise	10974 Apr 06 08:35	10°♅01'59	
direct	10973 Apr 26 10:14	23°♅54'36		direct	10974 Apr 10 08:46	8°♅30'51	
morning max el	10973 May 05 07:45	29°♅04'24	21°34'36	morning max el	10974 Apr 18 04:16	12°♅55'26	20°18'05
	10973 May 06 05:26	0°♅		desc. node	10974 Apr 27 17:32	24°♅41'51	
desc. node	10973 May 10 20:44	5°♅22'59			10974 May 01 11:15	0°♅	
	10973 May 28 07:54	0°♄		morning set	10974 May 16 10:16	22°♅27'50	
morning set	10973 Jun 06 06:25	13°♄49'58			10974 May 21 06:24	0°♄	
max. Earth dist.	10973 Jun 12 15:23	24°♄08'38	1.42077 AU	max. Earth dist.	10974 May 26 00:15	7°♄31'32	1.43891 AU
	10973 Jun 16 03:35	0°♄					
				superior conj	10974 Jun 01 01:18	17°♄20'42	-2°07'51
superior conj	10973 Jun 20 04:16	6°♄53'47	-1°47'14	minimum elong	10974 Jun 01 05:51	17°♄39'26	2°08'14
minimum elong	10973 Jun 20 10:49	7°♄22'14	1°47'12		10974 Jun 08 14:08	0°♄	
evening rise	10973 Jul 01 05:48	26°♄42'15		evening rise	10974 Jun 13 18:34	8°♄56'40	
	10973 Jul 03 01:11	0°♄		asc. node	10974 Jun 20 23:19	21°♄19'38	
asc. node	10973 Jul 04 02:21	1°♄54'12			10974 Jun 26 11:45	0°♄	
evening max el	10973 Jul 17 10:55	22°♄20'56	18°08'47	evening max el	10974 Jul 01 00:17	5°♄32'56	18°04'50
retrograde	10973 Jul 24 08:47	25°♄51'44		retrograde	10974 Jul 07 10:57	8°♄53'44	
evening set	10973 Jul 26 17:15	25°♄27'45		evening set	10974 Jul 10 03:18	8°♄17'58	
inferior conj	10973 Aug 02 17:32	20°♄37'40	1°11'56	inferior conj	10974 Jul 16 12:03	3°♄08'50	2°13'06
minimum elong	10973 Aug 02 19:39	20°♄32'51	1°10'47	minimum elong	10974 Jul 16 14:47	3°♄01'44	2°11'49
min. Earth dist.	10973 Aug 06 00:43	17°♄39'50	0.59863 AU	min. Earth dist.	10974 Jul 19 10:34	0°♄07'19	0.62130 AU
desc. node	10973 Aug 06 19:46	16°♄59'55			10974 Jul 19 13:33	30°♄	
morning rise	10973 Aug 09 18:59	14°♄51'50		morning rise	10974 Jul 23 00:05	27°♄02'13	
direct	10973 Aug 16 06:12	12°♄53'02		desc. node	10974 Jul 24 16:59	25°♄58'07	
morning max el	10973 Aug 30 14:14	20°♄45'11	27°44'50	direct	10974 Jul 29 16:38	24°♄38'41	
	10973 Sep 07 14:07	0°♄			10974 Aug 09 23:07	0°♄	
	10973 Sep 26 02:54	0°♄		morning max el	10974 Aug 12 20:18	2°♄40'48	27°56'49
asc. node	10973 Sep 30 02:56	7°♄56'46			10974 Sep 02 00:45	0°♄	
morning set	10973 Oct 01 16:40	11°♄12'15		morning set	10974 Sep 15 16:56	25°♄15'03	
max. Earth dist.	10973 Oct 07 22:24	24°♄43'00	1.31460 AU	asc. node	10974 Sep 16 23:42	27°♄53'26	
					10974 Sep 17 23:56	0°♄	
superior conj	10973 Oct 08 19:47	26°♄41'44	1°16'45	max. Earth dist.	10974 Sep 21 04:16	6°♄47'43	1.31926 AU
minimum elong	10973 Oct 08 17:36	26°♄29'36	1°16'39				
	10973 Oct 10 07:26	0°♄		superior conj	10974 Sep 23 05:13	11°♄14'47	0°58'17
evening rise	10973 Oct 15 12:59	11°♄29'22		minimum elong	10974 Sep 23 03:03	11°♄02'51	0°57'57
	10973 Oct 24 20:10	0°♄		evening rise	10974 Sep 30 00:01	26°♄06'25	
desc. node	10973 Nov 02 17:13	14°♄21'47			10974 Oct 01 19:56	0°♄	
evening max el	10973 Nov 12 12:39	26°♄04'36	25°53'02		10974 Oct 19 05:38	0°♄	
	10973 Nov 17 09:08	0°♄		desc. node	10974 Oct 20 14:27	1°♄42'37	
retrograde	10973 Nov 26 10:13	3°♄06'20		evening max el	10974 Oct 25 01:29	6°♄33'50	24°22'44
evening set	10973 Dec 02 16:23	1°♄34'30		retrograde	10974 Nov 07 18:44	13°♄26'08	
	10973 Dec 05 12:09	30°♄		evening set	10974 Nov 12 22:28	12°♄27'25	
min. Earth dist.	10973 Dec 07 01:15	28°♄58'44	0.58029 AU	min. Earth dist.	10974 Nov 18 12:32	9°♄36'41	0.56214 AU
inferior conj	10973 Dec 10 02:30	26°♄48'43	-4°51'21	inferior conj	10974 Nov 20 22:11	8°♄07'00	-5°39'00
minimum elong	10973 Dec 10 10:29	26°♄34'31	4°48'53	minimum elong	10974 Nov 21 02:27	8°♄00'20	5°38'03
morning rise	10973 Dec 18 07:03	22°♄26'23		morning rise	10974 Nov 29 08:35	4°♄06'07	
direct	10973 Dec 20 11:56	22°♄10'53		direct	10974 Dec 01 21:45	3°♄48'53	
asc. node	10973 Dec 27 03:00	24°♄41'22		morning max el	10974 Dec 11 19:30	8°♄31'55	19°41'46
morning max el	10973 Dec 29 00:10	26°♄19'08	18°42'10	asc. node	10974 Dec 14 00:02	10°♄50'45	
	10974 Jan 01 05:48	0°♄			10974 Dec 25 21:50	0°♄	
morning set	10974 Jan 14 04:48	22°♄18'31		morning set	10974 Dec 29 08:25	6°♄50'18	
	10974 Jan 18 03:36	0°♄					
				superior conj	10975 Jan 06 05:43	22°♄43'41	1°14'14

minimum elong	10975 Jan 06 08:35	22° Z 57'53	1°14'29	superior conj	10975 Dec 21 00:53	6° Z 52'21	1°29'34
	10975 Jan 09 23:38	0° \approx		minimum elong	10975 Dec 21 02:55	7° Z 02'50	1°30'01
max. Earth dist.	10975 Jan 12 10:02	4° \approx 34'27	1.37543 AU	max. Earth dist.	10975 Dec 25 19:17	16° Z 29'22	1.35499 AU
evening rise	10975 Jan 16 03:21	11° \approx 19'41		evening rise	10975 Dec 29 19:59	24° Z 13'23	
desc. node	10975 Jan 16 13:18	12° \approx 03'44			10976 Jan 01 23:38	0° \approx	
	10975 Jan 27 08:20	0° H		desc. node	10976 Jan 03 10:11	2° \approx 33'33	
	10975 Feb 18 15:36	0° Y			10976 Jan 20 22:49	0° H	
evening max el	10975 Feb 20 15:59	2° Y 03'54	25°20'04	evening max el	10976 Feb 03 05:28	15° H 51'09	26°24'53
retrograde	10975 Mar 04 19:25	9° Y 05'31		retrograde	10976 Feb 16 03:29	23° H 09'13	
evening set	10975 Mar 10 15:18	6° Y 40'33		evening set	10976 Feb 22 10:45	20° H 37'26	
asc. node	10975 Mar 11 22:18	5° Y 28'13		min. Earth dist.	10976 Feb 26 13:56	16° H 21'35	0.66613 AU
min. Earth dist.	10975 Mar 15 00:35	1° Y 50'19	0.67709 AU	asc. node	10976 Feb 26 19:36	16° H 04'39	
inferior conj	10975 Mar 16 07:18	0° Y 10'48	1°21'49	inferior conj	10976 Feb 28 08:30	14° H 12'31	0°29'51
minimum elong	10975 Mar 16 05:32	0° Y 16'34	1°21'14	minimum elong	10976 Feb 28 07:44	14° H 14'53	0°29'46
	10975 Mar 16 10:38	30° R H		morning rise	10976 Mar 05 05:36	8° H 29'00	
morning rise	10975 Mar 21 20:10	24° H 17'13		direct	10976 Mar 08 06:52	7° H 36'32	
direct	10975 Mar 25 08:13	23° H 06'45		morning max el	10976 Mar 14 19:49	11° H 06'43	18°29'08
morning max el	10975 Apr 01 08:37	26° H 57'55	19°15'37		10976 Mar 28 12:23	0° Y	
	10975 Apr 04 03:13	0° Y		desc. node	10976 Mar 31 11:01	4° Y 37'24	
greatest brilliancy	10975 Apr 14 05:33	13° Y 56'48	-0.7m	morning set	10976 Apr 04 07:45	10° Y 43'46	
desc. node	10975 Apr 14 14:17	14° Y 29'23			10976 Apr 16 13:41	0° B	
	10975 Apr 24 18:25	0° B					
morning set	10975 Apr 25 11:18	1° B 05'06		superior conj	10976 Apr 20 06:28	5° B 47'10	-1°57'02
max. Earth dist.	10975 May 08 14:57	21° B 33'28	1.45127 AU	minimum elong	10976 Apr 19 22:01	5° B 14'08	1°56'46
				max. Earth dist.	10976 Apr 20 09:24	5° B 58'36	1.45668 AU
					10976 May 05 16:35	0° II	
superior conj	10975 May 11 23:03	26° B 49'54	-2°12'33	evening rise	10976 May 06 00:30	0° II 31'18	
minimum elong	10975 May 11 21:08	26° B 42'15	2°13'00	greatest brilliancy	10976 May 15 03:38	14° II 55'28	-0.8m
	10975 May 13 22:51	0° II		asc. node	10976 May 24 17:28	28° II 52'06	
evening rise	10975 May 26 09:38	20° II 14'07			10976 May 25 15:21	0° B	
	10975 Jun 01 07:36	0° B		evening max el	10976 May 28 01:00	2° B 40'10	18°51'48
asc. node	10975 Jun 07 20:21	10° B 21'50		retrograde	10976 Jun 03 17:48	6° B 21'44	
evening max el	10975 Jun 14 13:54	19° B 01'56	18°19'27	evening set	10976 Jun 07 02:23	5° B 16'47	
retrograde	10975 Jun 20 23:16	22° B 26'36			10976 Jun 12 07:37	30° R II	
evening set	10975 Jun 23 23:34	21° B 36'57		inferior conj	10976 Jun 12 15:38	29° II 34'51	3°11'46
inferior conj	10975 Jun 29 20:43	16° B 10'40	2°51'39	minimum elong	10976 Jun 12 16:41	29° II 31'33	3°11'04
minimum elong	10975 Jun 29 22:51	16° B 04'29	2°50'39	min. Earth dist.	10976 Jun 14 09:52	27° II 22'30	0.65999 AU
min. Earth dist.	10975 Jul 02 05:54	13° B 26'08	0.64232 AU	morning rise	10976 Jun 18 06:18	23° II 13'42	
morning rise	10975 Jul 05 20:49	9° B 53'12		direct	10976 Jun 24 15:19	20° II 29'59	
desc. node	10975 Jul 11 14:09	7° B 16'53		desc. node	10976 Jun 27 11:16	20° II 57'49	
direct	10975 Jul 12 12:19	7° B 13'59		morning max el	10976 Jul 07 16:46	28° II 15'54	26°36'58
morning max el	10975 Jul 26 06:04	15° B 15'09	27°31'58		10976 Jul 09 08:29	0° B	
	10975 Aug 07 07:26	0° Q			10976 Jul 31 01:44	0° Q	
	10975 Aug 25 17:46	0° P		morning set	10976 Aug 12 13:56	21° Q 55'43	
morning set	10975 Aug 30 09:03	8° P 52'18		max. Earth dist.	10976 Aug 16 15:37	29° Q 48'47	1.34389 AU
asc. node	10975 Sep 03 20:29	17° P 56'52			10976 Aug 16 17:53	0° P	
max. Earth dist.	10975 Sep 04 02:56	18° P 30'27	1.32905 AU	asc. node	10976 Aug 20 17:17	8° P 02'57	
superior conj	10975 Sep 07 10:43	25° P 32'39	0°34'48	superior conj	10976 Aug 21 09:56	9° P 29'01	0°06'48
minimum elong	10975 Sep 07 09:07	25° P 24'06	0°34'22	minimum elong	10976 Aug 21 09:35	9° P 27'11	0°06'28
	10975 Sep 09 12:22	0° Q		behind sun begin	10976 Aug 21 04:13	8° P 59'24	
evening rise	10975 Sep 14 11:20	10° Q 41'30		behind sun end	10976 Aug 21 14:57	9° P 55'01	
	10975 Sep 24 07:26	0° M		evening rise	10976 Aug 28 21:00	25° P 09'17	
evening max el	10975 Oct 06 12:15	16° M 40'22	22°42'01		10976 Aug 31 05:15	0° Q	
desc. node	10975 Oct 07 11:44	17° M 35'36		evening max el	10976 Sep 17 06:14	27° Q 01'11	21°07'39
retrograde	10975 Oct 19 14:55	23° M 11'48			10976 Sep 20 18:50	0° M	
evening set	10975 Oct 23 07:21	22° M 42'05		desc. node	10976 Sep 23 09:02	1° M 31'54	
min. Earth dist.	10975 Oct 30 20:21	19° M 18'13	0.54982 AU	retrograde	10976 Sep 29 02:34	2° M 53'56	
inferior conj	10975 Oct 31 23:32	18° M 39'30	-5°42'22	evening set	10976 Oct 01 13:14	2° M 39'57	
minimum elong	10975 Oct 31 19:47	18° M 44'51	5°41'40		10976 Oct 08 09:31	30° R Q	
morning rise	10975 Nov 09 09:50	14° M 51'16		inferior conj	10976 Oct 10 15:44	28° Q 44'55	-4°48'02
direct	10975 Nov 12 13:53	14° M 28'11		minimum elong	10976 Oct 10 06:06	28° Q 58'29	4°45'28
morning max el	10975 Nov 24 01:11	19° M 53'39	21°03'56	min. Earth dist.	10976 Oct 11 03:50	28° Q 27'51	0.54599 AU
asc. node	10975 Nov 30 21:02	28° M 07'11		morning rise	10976 Oct 18 23:25	24° Q 52'32	
	10975 Dec 02 03:05	0° X		direct	10976 Oct 22 22:16	24° Q 18'56	
morning set	10975 Dec 13 16:53	21° X 33'16			10976 Nov 04 06:13	0° M	
	10975 Dec 17 17:42	0° Z		morning max el	10976 Nov 04 18:27	0° M 28'10	22°44'32

asc. node	10976 Nov 16 17:59	16°♍15'32			10977 Oct 31 18:32	0°♍	
	10976 Nov 24 02:35	0°♊		asc. node	10977 Nov 03 14:52	5°♍02'25	
morning set	10976 Nov 27 04:01	6°♊21'28		morning set	10977 Nov 11 15:52	21°♍08'25	
					10977 Nov 15 17:42	0°♊	
superior conj	10976 Dec 04 03:53	21°♊21'55	1°37'45	superior conj	10977 Nov 18 11:54	6°♊03'13	1°39'24
minimum elong	10976 Dec 04 04:46	21°♊26'38	1°38'19	minimum elong	10977 Nov 18 11:37	6°♊01'40	1°39'56
max. Earth dist.	10976 Dec 07 12:01	28°♊24'09	1.33797 AU	max. Earth dist.	10977 Nov 20 12:41	10°♊28'37	1.32526 AU
	10976 Dec 08 06:34	0°♊		evening rise	10977 Nov 25 20:29	21°♊41'08	
evening rise	10976 Dec 12 02:53	7°♊43'58			10977 Nov 30 01:29	0°♊	
desc. node	10976 Dec 20 07:10	22°♊51'03		desc. node	10977 Dec 07 04:12	12°♊49'17	
	10976 Dec 24 13:12	0°♋			10977 Dec 18 10:23	0°♋	
evening max el	10977 Jan 15 19:02	29°♋27'37	27°10'47	evening max el	10977 Dec 29 06:56	12°♋39'42	27°30'53
	10977 Jan 16 08:44	0°♋		retrograde	10978 Jan 12 00:33	20°♋00'36	
retrograde	10977 Jan 29 05:30	6°♋50'46		evening set	10978 Jan 18 23:46	17°♋32'57	
evening set	10977 Feb 04 22:25	4°♋17'34		min. Earth dist.	10978 Jan 22 18:02	14°♋20'47	0.63368 AU
min. Earth dist.	10977 Feb 08 20:28	0°♋34'58	0.65154 AU	inferior conj	10978 Jan 25 11:18	11°♋37'33	-1°41'11
	10977 Feb 09 09:14	30°♋		minimum elong	10978 Jan 25 14:35	11°♋29'17	1°39'21
inferior conj	10977 Feb 11 02:46	28°♋04'00	-0°31'24	asc. node	10978 Jan 30 14:03	7°♋13'58	
minimum elong	10977 Feb 11 03:41	28°♋01'27	0°30'39	morning rise	10978 Feb 01 07:34	6°♋22'09	
asc. node	10977 Feb 12 16:50	26°♋20'17		direct	10978 Feb 03 16:23	5°♋55'09	
morning rise	10977 Feb 17 10:28	22°♋33'01		morning max el	10978 Feb 10 05:19	9°♋16'51	17°47'12
direct	10977 Feb 20 02:34	21°♋55'05			10978 Feb 24 02:55	0°♋	
morning max el	10977 Feb 26 11:41	25°♋15'49	17°59'29	morning set	10978 Feb 26 13:11	4°♋11'22	
	10977 Mar 02 12:02	0°♋		desc. node	10978 Mar 05 04:29	15°♋33'31	
morning set	10977 Mar 16 09:18	21°♋49'30					
desc. node	10977 Mar 18 07:46	25°♋00'29		superior conj	10978 Mar 10 22:47	25°♋09'42	-0°42'29
	10977 Mar 21 09:00	0°♌		minimum elong	10978 Mar 10 18:20	24°♋51'25	0°41'44
superior conj	10977 Mar 30 17:06	14°♌59'57	-1°24'03		10978 Mar 13 22:03	0°♌	
minimum elong	10977 Mar 30 08:19	14°♌25'09	1°23'08	max. Earth dist.	10978 Mar 17 00:11	4°♌57'30	1.44538 AU
max. Earth dist.	10977 Apr 03 05:28	20°♌32'28	1.45465 AU	evening rise	10978 Mar 26 06:49	19°♌27'44	
	10977 Apr 09 06:57	0°♌			10978 Apr 02 05:22	0°♌	
evening rise	10977 Apr 15 19:26	10°♌04'34			10978 Apr 24 05:54	0°♌	
	10977 Apr 28 21:50	0°♌		evening max el	10978 Apr 24 08:21	0°♌06'14	20°43'45
greatest brilliancy	10977 Apr 29 15:17	1°♌04'31	-0.7m	asc. node	10978 Apr 28 11:47	3°♌33'19	
evening max el	10977 May 11 07:32	16°♌22'33	19°40'37	retrograde	10978 May 02 14:24	4°♌54'45	
asc. node	10977 May 11 14:37	16°♌40'11		evening set	10978 May 06 17:26	3°♌17'56	
retrograde	10977 May 18 15:37	20°♌32'50			10978 May 09 21:00	30°♌	
evening set	10977 May 22 09:02	19°♌11'58		inferior conj	10978 May 12 00:06	27°♌09'00	3°09'56
inferior conj	10977 May 27 17:38	13°♌15'41	3°17'00	minimum elong	10978 May 11 23:01	27°♌12'45	3°09'20
minimum elong	10977 May 27 17:32	13°♌16'01	3°16'26	min. Earth dist.	10978 May 12 13:34	26°♌22'34	0.68224 AU
min. Earth dist.	10977 May 28 21:02	11°♌44'27	0.67342 AU	morning rise	10978 May 17 04:23	20°♌51'41	
morning rise	10977 Jun 02 01:40	6°♌55'11		direct	10978 May 22 14:35	18°♌27'47	
direct	10977 Jun 08 00:23	4°♌17'25		desc. node	10978 Jun 01 05:20	23°♌42'46	
desc. node	10977 Jun 14 08:20	6°♌35'57		morning max el	10978 Jun 02 12:39	24°♌59'16	23°52'58
morning max el	10977 Jun 20 02:54	11°♌32'46	25°20'40		10978 Jun 07 01:14	0°♌	
	10977 Jul 04 20:55	0°♌			10978 Jun 28 08:10	0°♌	
	10977 Jul 23 18:13	0°♌		morning set	10978 Jul 07 20:53	15°♌36'46	
morning set	10977 Jul 26 03:29	4°♌14'30		max. Earth dist.	10978 Jul 11 16:05	22°♌13'25	1.38552 AU
max. Earth dist.	10977 Jul 29 18:35	10°♌54'26	1.36323 AU		10978 Jul 15 23:25	0°♌	
superior conj	10977 Aug 04 23:59	22°♌55'57	-0°24'50	superior conj	10978 Jul 19 01:18	5°♌44'52	-0°58'20
minimum elong	10977 Aug 05 01:33	23°♌03'44	0°24'56	minimum elong	10978 Jul 19 05:16	6°♌03'35	0°58'12
asc. node	10977 Aug 07 14:06	28°♌07'30		asc. node	10978 Jul 25 10:56	18°♌06'53	
	10977 Aug 08 12:18	0°♍		evening rise	10978 Jul 28 02:00	23°♌16'20	
evening rise	10977 Aug 13 02:47	9°♍23'15			10978 Jul 31 13:17	0°♍	
	10977 Aug 24 06:24	0°♍		evening max el	10978 Aug 13 09:29	19°♍49'02	18°54'38
evening max el	10977 Aug 30 13:17	8°♍01'41	19°50'33	retrograde	10978 Aug 21 23:56	24°♍06'43	
retrograde	10977 Sep 09 17:41	13°♍05'24		evening set	10978 Aug 23 21:25	23°♍55'00	
desc. node	10977 Sep 10 06:21	13°♍04'38		desc. node	10978 Aug 28 03:40	22°♍13'42	
evening set	10977 Sep 11 15:02	12°♍55'44		inferior conj	10978 Sep 01 03:30	19°♍37'08	-1°14'47
inferior conj	10977 Sep 20 13:00	8°♍54'19	-3°08'07	minimum elong	10978 Sep 01 00:20	19°♍42'46	1°13'41
minimum elong	10977 Sep 20 04:45	9°♍06'57	3°05'10	min. Earth dist.	10978 Sep 04 03:31	17°♍30'11	0.56573 AU
min. Earth dist.	10977 Sep 22 13:22	7°♍40'17	0.55163 AU	morning rise	10978 Sep 08 24:00	14°♍43'22	
morning rise	10977 Sep 28 16:55	4°♍37'32		direct	10978 Sep 14 13:08	13°♍30'03	
direct	10977 Oct 03 11:13	3°♍47'52		morning max el	10978 Sep 28 18:54	20°♍50'32	26°09'34
morning max el	10977 Oct 17 05:41	10°♍36'14	24°32'12		10978 Oct 06 17:25	0°♍	

asc. node	10978 Oct 21 11:43	24°♄18'10		direct	10979 Aug 27 05:35	23°♄51'58	
	10978 Oct 24 08:03	0°♄			10979 Sep 08 21:24	0°♄	
morning set	10978 Oct 27 02:45	5°♄49'36		morning max el	10979 Sep 10 14:27	1°♄35'51	27°20'20
					10979 Oct 01 00:18	0°♄	
superior conj	10978 Nov 02 22:45	20°♄49'58	1°35'02	asc. node	10979 Oct 08 08:31	13°♄54'24	
minimum elong	10978 Nov 02 21:29	20°♄42'53	1°35'23	morning set	10979 Oct 11 11:00	20°♄19'54	
max. Earth dist.	10978 Nov 03 19:09	22°♄43'04	1.31727 AU		10979 Oct 15 22:00	0°♄	
	10978 Nov 07 02:48	0°♄					
evening rise	10978 Nov 09 21:53	5°♄57'41		superior conj	10979 Oct 18 10:30	5°♄35'56	1°25'00
	10978 Nov 22 15:11	0°♄		minimum elong	10979 Oct 18 08:32	5°♄25'00	1°25'05
desc. node	10978 Nov 24 01:17	2°♄20'22		max. Earth dist.	10979 Oct 18 04:14	5°♄01'01	1.31409 AU
evening max el	10978 Dec 11 14:45	25°♄14'27	27°19'29	evening rise	10979 Oct 25 04:38	20°♄26'55	
	10978 Dec 17 16:36	0°♄			10979 Oct 29 19:41	0°♄	
retrograde	10978 Dec 25 12:03	2°♄29'21		desc. node	10979 Nov 10 22:25	21°♄13'42	
evening set	10979 Jan 01 11:40	0°♄16'05			10979 Nov 17 06:46	0°♄	
	10979 Jan 01 21:42	30°♄		evening max el	10979 Nov 23 16:08	7°♄02'03	26°33'59
min. Earth dist.	10979 Jan 05 05:12	27°♄27'47	0.61336 AU	retrograde	10979 Dec 07 14:43	14°♄09'13	
inferior conj	10979 Jan 08 06:54	24°♄44'50	-2°56'56	evening set	10979 Dec 14 06:09	12°♄20'03	
minimum elong	10979 Jan 08 12:54	24°♄31'33	2°54'07	min. Earth dist.	10979 Dec 18 05:59	9°♄44'03	0.59205 AU
morning rise	10979 Jan 15 16:48	19°♄48'17		inferior conj	10979 Dec 21 10:07	7°♄17'10	-4°12'26
asc. node	10979 Jan 17 11:15	19°♄29'14		minimum elong	10979 Dec 21 18:06	7°♄01'44	4°09'28
direct	10979 Jan 17 20:47	19°♄28'33		morning rise	10979 Dec 29 08:47	2°♄41'52	
morning max el	10979 Jan 24 21:30	23°♄01'04	17°52'57	direct	10979 Dec 31 11:37	2°♄25'56	
	10979 Jan 30 09:19	0°♄		asc. node	10980 Jan 04 08:23	3°♄21'57	
morning set	10979 Feb 09 13:02	17°♄29'15		morning max el	10980 Jan 08 08:39	6°♄18'49	18°18'09
	10979 Feb 16 12:01	0°♄			10980 Jan 23 08:53	0°♄	
				morning set	10980 Jan 24 03:04	1°♄26'15	
superior conj	10979 Feb 20 05:20	6°♄30'15	-0°01'20				
minimum elong	10979 Feb 20 05:14	6°♄29'50	0°01'01	superior conj	10980 Feb 02 10:48	18°♄55'05	0°34'09
behind sun begin	10979 Feb 19 20:53	5°♄53'48		minimum elong	10980 Feb 02 13:10	19°♄05'53	0°34'13
behind sun end	10979 Feb 20 13:34	7°♄05'47		desc. node	10980 Feb 06 21:56	26°♄53'53	
desc. node	10979 Feb 20 01:12	6°♄12'25			10980 Feb 08 16:46	0°♄	
max. Earth dist.	10979 Feb 27 14:45	18°♄55'45	1.42991 AU	max. Earth dist.	10980 Feb 10 00:29	2°♄15'57	1.41008 AU
evening rise	10979 Mar 06 01:56	29°♄17'44		evening rise	10980 Feb 14 15:29	9°♄59'18	
	10979 Mar 06 12:43	0°♄			10980 Feb 27 12:35	0°♄	
	10979 Mar 26 20:46	0°♄		evening max el	10980 Mar 19 19:23	27°♄38'06	23°17'37
evening max el	10979 Apr 07 03:45	13°♄50'42	21°57'44		10980 Mar 22 08:31	0°♄	
asc. node	10979 Apr 15 09:00	19°♄15'53		retrograde	10980 Mar 30 07:43	3°♄50'36	
retrograde	10979 Apr 16 12:17	19°♄22'09		asc. node	10980 Apr 01 06:16	3°♄32'41	
evening set	10979 Apr 21 01:49	17°♄30'00		evening set	10980 Apr 04 08:38	1°♄44'15	
inferior conj	10979 Apr 26 08:52	11°♄10'41	2°52'08		10980 Apr 06 02:43	30°♄	
minimum elong	10979 Apr 26 07:03	11°♄16'59	2°51'26	inferior conj	10980 Apr 09 17:59	25°♄17'43	2°24'32
min. Earth dist.	10979 Apr 26 09:20	11°♄09'02	0.68646 AU	minimum elong	10980 Apr 09 15:49	25°♄25'10	2°23'45
morning rise	10979 May 01 12:08	4°♄58'11		min. Earth dist.	10980 Apr 09 06:10	25°♄58'28	0.68623 AU
direct	10979 May 06 08:58	2°♄53'10		morning rise	10980 Apr 14 22:56	19°♄11'22	
morning max el	10979 May 16 00:00	8°♄33'13	22°23'28	direct	10980 Apr 19 06:30	17°♄27'38	
desc. node	10979 May 19 02:14	11°♄54'04		morning max el	10980 Apr 27 16:19	22°♄17'25	21°00'26
	10979 Jun 01 17:27	0°♄			10980 May 04 06:57	0°♄	
morning set	10979 Jun 18 13:15	25°♄50'10		desc. node	10980 May 04 23:03	0°♄52'27	
	10979 Jun 21 02:10	0°♄			10980 May 24 23:54	0°♄	
max. Earth dist.	10979 Jun 23 14:23	4°♄11'36	1.40840 AU	morning set	10980 May 28 03:55	4°♄55'09	
				max. Earth dist.	10980 Jun 04 18:38	17°♄03'33	1.42910 AU
superior conj	10979 Jul 01 09:35	17°♄45'15	-1°30'47				
minimum elong	10979 Jul 01 15:39	18°♄12'27	1°30'37	superior conj	10980 Jun 11 20:28	28°♄48'33	-1°57'31
	10979 Jul 08 02:03	0°♄		minimum elong	10980 Jun 12 02:43	29°♄15'01	1°57'39
evening rise	10979 Jul 11 15:14	6°♄39'01			10980 Jun 12 13:18	0°♄	
asc. node	10979 Jul 12 07:47	7°♄56'35		evening rise	10980 Jun 23 14:19	19°♄21'30	
	10979 Jul 25 14:06	0°♄		asc. node	10980 Jun 28 04:42	27°♄32'28	
evening max el	10979 Jul 27 15:29	2°♄16'43	18°19'47		10980 Jun 29 14:32	0°♄	
retrograde	10979 Aug 04 00:58	6°♄00'17		evening max el	10980 Jul 10 03:18	15°♄15'44	18°04'50
evening set	10979 Aug 06 04:51	5°♄41'57		retrograde	10980 Jul 16 19:02	18°♄40'10	
inferior conj	10979 Aug 13 15:39	1°♄03'57	0°25'14	evening set	10980 Jul 19 06:54	18°♄11'29	
minimum elong	10979 Aug 13 16:32	1°♄02'09	0°24'34	inferior conj	10980 Jul 26 00:07	13°♄13'23	1°40'54
	10979 Aug 14 22:17	30°♄		minimum elong	10980 Jul 26 02:43	13°♄07'09	1°39'35
desc. node	10979 Aug 15 00:58	29°♄54'24		min. Earth dist.	10980 Jul 29 04:38	10°♄11'00	0.60840 AU
min. Earth dist.	10979 Aug 17 00:07	28°♄18'14	0.58573 AU	desc. node	10980 Jul 31 22:14	7°♄54'53	
morning rise	10979 Aug 21 00:42	25°♄34'29		morning rise	10980 Aug 01 19:48	7°♄17'30	

direct	10980 Aug 08 10:22	5°Ω06'57		direct	10981 Jul 22 00:53	17°♄15'10	
morning max el	10980 Aug 22 16:53	13°Ω04'41	27°54'35	morning max el	10981 Aug 05 00:40	25°♄17'27	27°50'27
	10980 Sep 05 04:33	0°♍			10981 Aug 09 08:08	0°Ω	
	10980 Sep 22 09:06	0°♄			10981 Aug 29 16:26	0°♍	
asc. node	10980 Sep 24 05:16	3°♄44'58		morning set	10981 Sep 08 11:54	18°♍26'59	
morning set	10980 Sep 24 14:46	4°♄34'04		asc. node	10981 Sep 11 02:02	23°♍45'08	
max. Earth dist.	10980 Sep 30 12:16	17°♄12'54	1.31591 AU	max. Earth dist.	10981 Sep 13 15:36	29°♍09'50	1.32281 AU
					10981 Sep 14 00:59	0°♄	
superior conj	10980 Oct 01 21:19	20°♄15'22	1°09'32				
minimum elong	10980 Oct 01 19:05	20°♄02'57	1°09'21	superior conj	10981 Sep 16 05:23	4°♄43'04	0°48'55
	10980 Oct 06 07:00	0°♌		minimum elong	10981 Sep 16 03:22	4°♄32'09	0°48'32
evening rise	10980 Oct 08 14:40	5°♌02'47		evening rise	10981 Sep 23 02:06	19°♄40'16	
	10980 Oct 21 15:13	0°♌			10981 Sep 28 01:41	0°♌	
desc. node	10980 Oct 27 19:38	9°♌13'55		desc. node	10981 Oct 14 16:55	26°♌01'02	
evening max el	10980 Nov 04 09:26	17°♌58'06	25°17'11	evening max el	10981 Oct 16 20:33	28°♌14'17	23°40'10
retrograde	10980 Nov 18 06:12	24°♌56'15			10981 Oct 18 19:22	0°♌	
evening set	10980 Nov 24 02:23	23°♌38'42		retrograde	10981 Oct 30 08:53	4°♌58'56	
min. Earth dist.	10980 Nov 28 21:33	20°♌58'43	0.57199 AU	evening set	10981 Nov 03 22:17	4°♌13'42	
inferior conj	10980 Dec 01 17:45	19°♌04'28	-5°15'38	min. Earth dist.	10981 Nov 10 06:44	1°♌11'07	0.55603 AU
minimum elong	10980 Dec 02 00:48	18°♌52'36	5°13'47	inferior conj	10981 Nov 12 05:02	0°♌02'25	-5°47'05
morning rise	10980 Dec 10 01:30	14°♌51'22		minimum elong	10981 Nov 12 06:11	0°♌00'41	5°46'32
direct	10980 Dec 12 08:58	14°♌35'36			10981 Nov 12 06:39	30°♌	
asc. node	10980 Dec 21 05:29	18°♌45'33		morning rise	10981 Nov 20 15:57	26°♌08'26	
morning max el	10980 Dec 21 10:45	18°♌58'05	19°04'41	direct	10981 Nov 23 11:03	25°♌49'04	
	10980 Dec 29 15:32	0°♄			10981 Dec 03 02:41	0°♌	
morning set	10981 Jan 07 02:46	15°♄48'29		morning max el	10981 Dec 04 00:20	0°♌49'16	20°14'03
	10981 Jan 14 07:29	0°♄		asc. node	10981 Dec 08 02:31	5°♌25'27	
				morning set	10981 Dec 22 08:49	0°♄26'23	
superior conj	10981 Jan 15 10:28	2°♄10'09	1°01'53		10981 Dec 22 03:39	0°♄	
minimum elong	10981 Jan 15 13:31	2°♄24'46	1°02'02				
max. Earth dist.	10981 Jan 22 07:03	14°♄55'01	1.38813 AU	superior conj	10981 Dec 29 23:43	16°♄02'43	1°21'38
desc. node	10981 Jan 23 18:44	17°♄33'47		minimum elong	10981 Dec 30 02:18	16°♄15'43	1°21'59
evening rise	10981 Jan 26 02:29	21°♄36'53		max. Earth dist.	10982 Jan 04 14:16	27°♄02'08	1.36647 AU
	10981 Jan 31 02:27	0°♌			10982 Jan 06 04:01	0°♄	
	10981 Feb 20 12:11	0°♍		evening rise	10982 Jan 08 09:17	4°♄05'14	
evening max el	10981 Mar 02 09:11	11°♍28'08	24°37'11	desc. node	10982 Jan 10 15:36	8°♄08'32	
retrograde	10981 Mar 13 23:21	18°♍14'10			10982 Jan 24 01:51	0°♌	
asc. node	10981 Mar 19 03:34	16°♍13'25		evening max el	10982 Feb 12 22:37	25°♌18'11	25°49'23
evening set	10981 Mar 19 12:21	15°♍55'20			10982 Feb 18 14:22	0°♍	
min. Earth dist.	10981 Mar 24 01:46	10°♍44'53	0.68169 AU	retrograde	10982 Feb 25 10:20	2°♍27'23	
inferior conj	10981 Mar 25 01:34	9°♍25'36	1°47'27	evening set	10982 Mar 03 11:20	29°♌58'57	
minimum elong	10981 Mar 24 23:30	9°♍32'31	1°46'44		10982 Mar 03 10:49	30°♌	
morning rise	10981 Mar 30 10:48	3°♍26'51		asc. node	10982 Mar 06 00:52	27°♌26'21	
direct	10981 Apr 03 05:46	2°♍04'32		min. Earth dist.	10982 Mar 07 17:56	25°♌23'35	0.67301 AU
morning max el	10981 Apr 10 16:03	6°♍13'09	19°49'32	inferior conj	10982 Mar 09 05:42	23°♌30'47	1°00'56
desc. node	10981 Apr 21 19:49	20°♍24'35		minimum elong	10982 Mar 09 04:16	23°♌35'19	1°00'31
greatest brilliancy	10981 Apr 23 17:28	23°♍09'56	-0.6m	morning rise	10982 Mar 14 21:46	17°♌41'20	
	10981 Apr 28 08:06	0°♌		direct	10982 Mar 18 05:10	16°♌38'47	
morning set	10981 May 07 03:36	13°♌24'05		morning max el	10982 Mar 24 23:33	20°♌19'01	18°53'47
	10981 May 17 18:53	0°♌			10982 Apr 01 17:50	0°♍	
max. Earth dist.	10981 May 18 06:17	0°♌45'12	1.44504 AU	greatest brilliancy	10982 Apr 07 23:14	9°♍15'11	-0.8m
				desc. node	10982 Apr 08 16:34	10°♍21'32	
superior conj	10981 May 23 07:12	8°♌49'44	-2°12'09	morning set	10982 Apr 16 10:45	22°♍21'46	
minimum elong	10981 May 23 09:27	8°♌58'50	2°12'39		10982 Apr 21 08:33	0°♌	
	10981 Jun 05 01:15	0°♄		max. Earth dist.	10982 Apr 30 23:29	15°♌01'08	1.45453 AU
evening rise	10981 Jun 05 18:20	1°♄12'30					
asc. node	10981 Jun 15 01:43	16°♄48'58		superior conj	10982 May 02 21:03	17°♌59'56	-2°08'27
evening max el	10981 Jun 23 17:13	28°♄36'24	18°08'52	minimum elong	10982 May 02 15:53	17°♌39'39	2°08'41
	10981 Jun 25 06:51	0°Ω			10982 May 10 11:01	0°♌	
retrograde	10981 Jun 30 02:00	1°Ω56'51		evening rise	10982 May 17 23:06	12°♌03'51	
evening set	10981 Jul 02 21:51	1°Ω15'13			10982 May 29 03:33	0°♄	
	10981 Jul 04 21:23	30°♌		asc. node	10982 Jun 01 22:47	5°♄38'32	
inferior conj	10981 Jul 09 01:09	25°♄58'31	2°31'59	evening max el	10982 Jun 07 06:02	12°♄09'50	18°31'05
minimum elong	10981 Jul 09 03:44	25°♄51'29	2°30'47	retrograde	10982 Jun 13 17:29	15°♄40'12	
min. Earth dist.	10981 Jul 11 18:20	23°♄02'15	0.63062 AU	evening set	10982 Jun 16 21:18	14°♄44'01	
morning rise	10981 Jul 15 07:54	19°♄46'34		inferior conj	10982 Jun 22 14:37	9°♄10'37	3°02'13
desc. node	10981 Jul 18 19:26	17°♄49'32		minimum elong	10982 Jun 22 16:20	9°♄05'30	3°01'21

min. Earth dist.	10982 Jun 24 17:23	6°☿38'37	0.65029 AU	minimum elong	10983 Jun 06 13:30	22°♄41'19	3°15'00
morning rise	10982 Jun 28 10:23	2°☿50'53		min. Earth dist.	10983 Jun 08 00:46	20°♄47'28	0.66621 AU
direct	10982 Jul 04 23:32	0°☿08'48		morning rise	10983 Jun 12 00:25	16°♄21'33	
desc. node	10982 Jul 05 16:37	0°☿10'32		direct	10983 Jun 18 05:16	13°♄39'18	
morning max el	10982 Jul 18 11:16	8°☿04'53	27°11'53	desc. node	10983 Jun 22 13:42	14°♄45'03	
	10982 Aug 04 11:21	0°♊		morning max el	10983 Jun 30 22:06	21°♄14'48	26°06'32
	10982 Aug 22 00:40	0°♋			10983 Jul 08 12:07	0°☿	
morning set	10982 Aug 22 23:39	1°♋50'41			10983 Jul 28 16:03	0°♊	
max. Earth dist.	10982 Aug 27 10:33	10°♋43'17	1.33479 AU	morning set	10983 Aug 05 22:33	14°♊36'41	
asc. node	10982 Aug 28 22:48	13°♋49'54		max. Earth dist.	10983 Aug 09 18:53	21°♊53'59	1.35163 AU
					10983 Aug 13 21:13	0°♋	
superior conj	10982 Aug 31 08:28	18°♋52'14	0°23'26	superior conj	10983 Aug 15 04:08	2°♋36'42	-0°06'17
minimum elong	10982 Aug 31 07:19	18°♋46'07	0°23'01	minimum elong	10983 Aug 15 04:31	2°♋38'38	0°06'33
	10982 Sep 05 13:28	0°♌		behind sun begin	10983 Aug 14 22:58	2°♋10'22	
evening rise	10982 Sep 07 12:58	4°♌12'53		behind sun end	10983 Aug 15 10:04	3°♋06'56	
	10982 Sep 21 12:59	0°♍		asc. node	10983 Aug 15 19:35	3°♋55'39	
evening max el	10982 Sep 28 09:03	8°♍21'21	22°00'10	evening rise	10983 Aug 22 21:14	18°♋35'21	
desc. node	10982 Oct 01 14:14	11°♍07'54			10983 Aug 28 14:14	0°♌	
retrograde	10982 Oct 11 00:29	14°♍38'50		evening max el	10983 Sep 10 08:06	18°♌56'25	20°32'20
evening set	10982 Oct 14 02:51	14°♍17'22		desc. node	10983 Sep 18 11:32	24°♌05'16	
min. Earth dist.	10982 Oct 22 13:39	10°♍34'50	0.54706 AU	retrograde	10983 Sep 21 12:22	24°♌29'15	
inferior conj	10982 Oct 23 00:50	10°♍19'10	-5°26'19	evening set	10983 Sep 23 14:56	24°♌18'16	
minimum elong	10982 Oct 22 17:49	10°♍29'00	5°24'55	inferior conj	10983 Oct 02 17:22	20°♌22'00	-4°09'28
morning rise	10982 Oct 31 10:11	6°♍32'05		minimum elong	10983 Oct 02 07:30	20°♌36'17	4°06'24
direct	10982 Nov 03 21:58	6°♍05'15		min. Earth dist.	10983 Oct 03 21:57	19°♌40'34	0.54722 AU
morning max el	10982 Nov 16 00:16	11°♍48'55	21°45'06	morning rise	10983 Oct 10 23:39	16°♌21'08	
asc. node	10982 Nov 24 23:29	23°♍05'06		direct	10983 Oct 15 06:27	15°♌41'40	
	10982 Nov 29 01:53	0°♎		morning max el	10983 Oct 28 14:06	22°♌08'56	23°30'30
morning set	10982 Dec 06 18:38	15°♎12'00			10983 Nov 04 10:29	0°♍	
superior conj	10982 Dec 13 22:35	0°♏21'06	1°33'53	asc. node	10983 Nov 11 20:23	11°♍30'44	
minimum elong	10982 Dec 14 00:09	0°♏29'17	1°34'23	morning set	10983 Nov 21 06:13	29°♍59'42	
	10982 Dec 13 18:33	0°♐			10983 Nov 21 06:16	0°♎	
max. Earth dist.	10982 Dec 18 02:25	8°♐54'37	1.34722 AU	superior conj	10983 Nov 28 03:59	14°♎56'18	1°39'13
evening rise	10982 Dec 22 08:22	17°♐15'02		minimum elong	10983 Nov 28 04:21	14°♎58'19	1°39'47
desc. node	10982 Dec 28 12:32	28°♐33'29		max. Earth dist.	10983 Nov 30 22:15	20°♎50'47	1.33193 AU
	10982 Dec 29 08:23	0°♑			10983 Dec 05 08:40	0°♏	
	10983 Jan 18 10:05	0°♒		evening rise	10983 Dec 05 20:09	0°♏57'25	
evening max el	10983 Jan 26 12:04	9°♒01'27	26°47'04	desc. node	10983 Dec 15 09:32	18°♏43'15	
retrograde	10983 Feb 08 15:56	16°♒23'05			10983 Dec 22 07:54	0°♑	
evening set	10983 Feb 15 03:46	13°♒49'35		evening max el	10984 Jan 09 00:57	22°♑28'10	27°22'56
min. Earth dist.	10983 Feb 19 04:31	9°♒48'26	0.66036 AU	retrograde	10984 Jan 22 15:20	29°♑52'07	
asc. node	10983 Feb 20 22:08	7°♒46'42		evening set	10984 Jan 29 11:24	27°♑20'08	
inferior conj	10983 Feb 21 04:15	7°♒28'45	0°04'59	min. Earth dist.	10984 Feb 02 07:28	23°♑51'04	0.64420 AU
minimum elong	10983 Feb 21 04:06	7°♒29'11	0°05'13	inferior conj	10984 Feb 04 18:42	21°♑13'11	-1°00'07
transit middle	10983 Feb 21 04:06	7°♒29'11	0°05'13	minimum elong	10984 Feb 04 20:33	21°♑08'14	0°58'54
transit begin	10983 Feb 21 01:19	7°♒37'22		asc. node	10984 Feb 07 19:24	18°♑11'09	
transit end	10983 Feb 21 06:53	7°♒21'02		morning rise	10984 Feb 11 07:34	15°♑48'39	
morning rise	10983 Feb 27 05:36	1°♒50'34		direct	10984 Feb 13 20:11	15°♑15'59	
direct	10983 Mar 02 02:45	1°♒04'48		morning max el	10984 Feb 20 06:10	18°♑36'11	17°52'08
morning max el	10983 Mar 08 13:09	4°♒29'28	18°14'29		10984 Feb 28 17:26	0°♒	
	10983 Mar 26 04:11	0°♓		morning set	10984 Mar 08 08:50	14°♒17'39	
desc. node	10983 Mar 26 13:18	0°♓36'41		desc. node	10984 Mar 12 10:01	21°♒04'16	
morning set	10983 Mar 27 19:23	2°♓37'32			10984 Mar 17 20:01	0°♓	
superior conj	10983 Apr 12 03:36	26°♓58'15	-1°44'44	superior conj	10984 Mar 21 21:00	6°♓32'14	-1°06'53
minimum elong	10983 Apr 11 18:09	26°♓21'15	1°44'07	minimum elong	10984 Mar 21 13:47	6°♓03'17	1°05'58
max. Earth dist.	10983 Apr 13 19:04	29°♓32'43	1.45670 AU	max. Earth dist.	10984 Mar 26 14:19	14°♓02'51	1.45148 AU
	10983 Apr 14 02:03	0°♈			10984 Apr 05 20:31	0°♈	
evening rise	10983 Apr 28 04:35	22°♈00'01		evening rise	10984 Apr 06 18:23	1°♈23'55	
	10983 May 03 07:46	0°♉		greatest brilliancy	10984 Apr 21 19:27	24°♈00'53	-0.6m
greatest brilliancy	10983 May 09 11:35	9°♉29'40	-0.7m		10984 Apr 26 00:44	0°♉	
asc. node	10983 May 19 19:55	23°♉52'35		evening max el	10984 May 03 19:28	9°♉33'25	20°05'52
evening max el	10983 May 21 15:19	25°♉50'15	19°10'36	asc. node	10984 May 05 17:06	11°♉19'14	
retrograde	10983 May 28 13:53	29°♉43'08		retrograde	10984 May 11 12:22	13°♉59'17	
evening set	10983 Jun 01 02:03	28°♉31'32		evening set	10984 May 15 09:40	12°♉31'50	
inferior conj	10983 Jun 06 12:57	22°♉43'07	3°15'37				

inferior conj	10984 May 20 17:09	6° Π 30'02	3°15'22	asc. node	10985 Apr 22 14:18	27° \mathcal{B} 44'23	
minimum elong	10984 May 20 16:36	6° Π 31'53	3°14'48	retrograde	10985 Apr 25 10:51	28° \mathcal{B} 23'55	
min. Earth dist.	10984 May 21 14:35	5° Π 17'19	0.67775 AU	evening set	10985 Apr 29 18:15	26° \mathcal{B} 40'37	
morning rise	10984 May 25 23:14	0° Π 10'25		inferior conj	10985 May 05 00:51	20° \mathcal{B} 27'12	3°03'36
	10984 May 26 03:54	30° \mathcal{R} 8		minimum elong	10985 May 04 23:25	20° \mathcal{B} 32'10	3°02'58
direct	10984 May 31 16:49	27° \mathcal{B} 37'28		min. Earth dist.	10985 May 05 08:44	19° \mathcal{B} 59'45	0.68468 AU
	10984 Jun 07 00:12	0° Π		morning rise	10985 May 10 04:22	14° \mathcal{B} 11'48	
desc. node	10984 Jun 08 10:43	1° Π 04'02		direct	10985 May 15 09:04	11° \mathcal{B} 55'13	
morning max el	10984 Jun 12 07:51	4° Π 36'08	24°44'02	morning max el	10985 May 25 17:43	18° \mathcal{B} 04'49	23°14'28
	10984 Jul 01 20:15	0° \mathcal{E}		desc. node	10985 May 26 07:41	18° \mathcal{B} 40'32	
morning set	10984 Jul 18 04:09	26° \mathcal{E} 33'06			10985 Jun 04 16:41	0° Π	
	10984 Jul 20 02:41	0° \mathcal{O}			10985 Jun 24 22:29	0° \mathcal{E}	
max. Earth dist.	10984 Jul 21 18:16	2° \mathcal{O} 59'16	1.37246 AU	morning set	10985 Jun 29 11:21	7° \mathcal{E} 26'48	
				max. Earth dist.	10985 Jul 03 15:12	14° \mathcal{E} 31'38	1.39542 AU
superior conj	10984 Jul 28 13:14	15° \mathcal{O} 48'30	-0°38'58	superior conj	10985 Jul 11 07:54	28° \mathcal{E} 18'16	-1°12'28
minimum elong	10984 Jul 28 15:47	16° \mathcal{O} 00'55	0°38'58	minimum elong	10985 Jul 11 12:51	28° \mathcal{E} 41'11	1°12'17
asc. node	10984 Aug 01 16:24	23° \mathcal{O} 58'24			10985 Jul 12 05:50	0° \mathcal{O}	
	10984 Aug 04 16:28	0° \mathcal{M}		asc. node	10985 Jul 19 13:15	13° \mathcal{O} 54'06	
evening rise	10984 Aug 06 00:33	2° \mathcal{M} 40'58		evening rise	10985 Jul 20 19:58	16° \mathcal{O} 22'05	
	10984 Aug 22 14:11	0° \mathcal{E}			10985 Jul 28 03:43	0° \mathcal{M}	
evening max el	10984 Aug 22 21:08	0° \mathcal{E} 17'32	19°24'11	evening max el	10985 Aug 05 22:03	12° \mathcal{M} 23'14	18°37'16
retrograde	10984 Sep 01 08:33	5° \mathcal{E} 00'11		retrograde	10985 Aug 13 22:32	16° \mathcal{M} 24'15	
evening set	10984 Sep 03 04:44	4° \mathcal{E} 50'18		evening set	10985 Aug 15 22:34	16° \mathcal{M} 10'05	
desc. node	10984 Sep 04 08:50	4° \mathcal{E} 34'14		desc. node	10985 Aug 22 06:09	12° \mathcal{M} 54'47	
inferior conj	10984 Sep 11 20:55	0° \mathcal{E} 43'13	-2°19'46	inferior conj	10985 Aug 23 20:27	11° \mathcal{M} 43'44	-0°29'40
minimum elong	10984 Sep 11 14:43	0° \mathcal{E} 53'17	2°17'26	minimum elong	10985 Aug 23 19:15	11° \mathcal{M} 45'59	0°29'26
	10984 Sep 12 23:27	30° \mathcal{R} 11		min. Earth dist.	10985 Aug 27 01:51	9° \mathcal{M} 18'09	0.57375 AU
min. Earth dist.	10984 Sep 14 09:28	29° \mathcal{M} 05'17	0.55671 AU	morning rise	10985 Aug 31 12:31	6° \mathcal{M} 34'25	
morning rise	10984 Sep 19 22:10	26° \mathcal{M} 11'16		direct	10985 Sep 06 09:11	5° \mathcal{M} 08'58	
direct	10984 Sep 25 00:53	25° \mathcal{M} 12'06		morning max el	10985 Sep 20 16:37	12° \mathcal{M} 39'44	26°43'45
	10984 Oct 06 11:22	0° \mathcal{E}			10985 Oct 04 07:31	0° \mathcal{E}	
morning max el	10984 Oct 09 01:15	2° \mathcal{E} 15'45	25°15'54	asc. node	10985 Oct 15 14:02	19° \mathcal{E} 56'11	
	10984 Oct 28 10:38	0° \mathcal{M}		morning set	10985 Oct 20 03:49	29° \mathcal{E} 21'42	
asc. node	10984 Oct 28 17:14	0° \mathcal{M} 31'03			10985 Oct 20 11:00	0° \mathcal{M}	
morning set	10984 Nov 04 17:51	14° \mathcal{M} 44'50		superior conj	10985 Oct 27 00:53	14° \mathcal{M} 27'50	1°31'26
superior conj	10984 Nov 11 13:27	29° \mathcal{M} 41'02	1°38'16	minimum elong	10985 Oct 26 23:16	14° \mathcal{M} 18'52	1°31'42
minimum elong	10984 Nov 11 12:43	29° \mathcal{M} 36'59	1°38'44	max. Earth dist.	10985 Oct 27 09:46	15° \mathcal{M} 17'18	1.31534 AU
	10984 Nov 11 16:54	0° \mathcal{X}		evening rise	10985 Nov 02 21:22	29° \mathcal{M} 27'00	
max. Earth dist.	10984 Nov 13 01:38	2° \mathcal{X} 59'47	1.32124 AU		10985 Nov 03 03:37	0° \mathcal{X}	
evening rise	10984 Nov 18 17:25	15° \mathcal{X} 04'15		desc. node	10985 Nov 18 03:40	27° \mathcal{X} 47'38	
	10984 Nov 26 09:27	0° \mathcal{Z}			10985 Nov 19 13:42	0° \mathcal{Z}	
desc. node	10984 Dec 01 06:34	8° \mathcal{Z} 31'12		evening max el	10985 Dec 03 17:11	17° \mathcal{Z} 43'03	27°04'23
	10984 Dec 16 08:19	0° \approx		retrograde	10985 Dec 17 15:03	24° \mathcal{Z} 53'49	
evening max el	10984 Dec 21 11:36	5° \approx 26'49	27°30'18	evening set	10985 Dec 24 12:27	22° \mathcal{Z} 49'58	
retrograde	10985 Jan 04 07:29	12° \approx 45'36		min. Earth dist.	10985 Dec 28 07:42	20° \mathcal{Z} 08'30	0.60434 AU
evening set	10985 Jan 11 07:29	10° \approx 23'12		inferior conj	10985 Dec 31 11:15	17° \mathcal{Z} 30'42	-3°29'30
min. Earth dist.	10985 Jan 15 00:59	7° \approx 21'55	0.62520 AU	minimum elong	10985 Dec 31 18:17	17° \mathcal{Z} 15'59	3°26'29
inferior conj	10985 Jan 17 22:11	4° \approx 37'10	-2°12'51	morning rise	10986 Jan 08 02:47	12° \mathcal{Z} 42'35	
minimum elong	10985 Jan 18 02:37	4° \approx 26'34	2°10'33	direct	10986 Jan 10 05:52	12° \mathcal{Z} 24'47	
	10985 Jan 23 19:03	30° \mathcal{R} 3		asc. node	10986 Jan 11 13:45	12° \mathcal{Z} 31'59	
asc. node	10985 Jan 24 16:35	29° \mathcal{Z} 36'00		morning max el	10986 Jan 17 13:59	16° \mathcal{Z} 04'42	18°01'10
morning rise	10985 Jan 25 00:11	29° \mathcal{Z} 29'07			10986 Jan 27 07:03	0° \approx	
direct	10985 Jan 27 06:30	29° \mathcal{Z} 05'42		morning set	10986 Feb 02 04:33	10° \approx 42'16	
	10985 Jan 30 16:16	0° \approx		superior conj	10986 Feb 12 05:50	29° \approx 00'22	0°14'36
morning max el	10985 Feb 02 23:35	2° \approx 31'13	17°47'20	minimum elong	10986 Feb 12 07:02	29° \approx 05'41	0°14'47
morning set	10985 Feb 18 22:02	27° \approx 06'01		behind sun begin	10986 Feb 12 04:01	28° \approx 52'20	
	10985 Feb 20 13:32	0° \mathcal{H}		behind sun end	10986 Feb 12 10:04	29° \approx 19'02	
desc. node	10985 Feb 27 06:44	11° \mathcal{H} 40'11			10986 Feb 12 19:22	0° \mathcal{H}	
superior conj	10985 Mar 02 13:06	17° \mathcal{H} 11'43	-0°24'35	desc. node	10986 Feb 14 03:26	2° \mathcal{H} 20'13	
minimum elong	10985 Mar 02 10:41	17° \mathcal{H} 01'32	0°24'02	max. Earth dist.	10986 Feb 19 20:19	12° \mathcal{H} 02'18	1.42194 AU
max. Earth dist.	10985 Mar 09 07:22	28° \mathcal{H} 17'47	1.43949 AU	evening rise	10986 Feb 25 09:29	21° \mathcal{H} 04'36	
	10985 Mar 10 08:50	0° \mathcal{Y}			10986 Mar 03 02:21	0° \mathcal{Y}	
evening rise	10985 Mar 17 07:23	10° \mathcal{Y} 54'42			10986 Mar 24 07:02	0° \mathcal{B}	
	10985 Mar 29 23:58	0° \mathcal{B}		evening max el	10986 Mar 30 11:39	7° \mathcal{B} 03'31	22°31'21
evening max el	10985 Apr 16 18:00	23° \mathcal{B} 17'49	21°14'09				

retrograde	10986 Apr 09 07:46	12°♄52'25		evening max el	10987 Mar 13 02:07	20°♄51'09	23°51'55
asc. node	10986 Apr 09 11:32	12°♄52'18		retrograde	10987 Mar 24 01:46	27°♄19'20	
evening set	10986 Apr 14 02:10	10°♄53'54		asc. node	10987 Mar 27 08:50	26°♄28'31	
inferior conj	10986 Apr 19 09:59	4°♄31'16	2°41'37	evening set	10987 Mar 29 07:53	25°♄07'04	
minimum elong	10986 Apr 19 07:59	4°♄38'14	2°40'52	min. Earth dist.	10987 Apr 03 01:39	19°♄36'34	0.68478 AU
min. Earth dist.	10986 Apr 19 05:09	4°♄48'08	0.68694 AU	inferior conj	10987 Apr 03 18:41	18°♄38'31	2°09'59
	10986 Apr 22 21:42	30°♄		minimum elong	10987 Apr 03 16:30	18°♄45'58	2°09'11
morning rise	10986 Apr 24 13:40	28°♄21'28		morning rise	10987 Apr 09 01:09	12°♄35'27	
direct	10986 Apr 29 04:53	26°♄25'24		direct	10987 Apr 13 03:11	11°♄01'09	
	10986 May 06 11:04	0°♄		morning max el	10987 Apr 21 02:16	15°♄32'03	20°28'39
morning max el	10986 May 08 06:50	1°♄42'45	21°47'03	desc. node	10987 Apr 30 01:21	26°♄27'15	
desc. node	10986 May 13 04:33	7°♄13'35			10987 May 02 14:27	0°♄	
	10986 May 29 13:43	0°♄		morning set	10987 May 19 22:41	25°♄53'32	
morning set	10986 Jun 09 16:31	17°♄10'11			10987 May 22 14:02	0°♄	
max. Earth dist.	10986 Jun 15 16:21	26°♄55'13	1.41767 AU	max. Earth dist.	10987 May 29 00:01	10°♄10'09	1.43651 AU
	10986 Jun 17 12:38	0°♄					
superior conj	10986 Jun 23 07:41	9°♄56'03	-1°43'09	superior conj	10987 Jun 04 08:21	20°♄32'13	-2°05'36
minimum elong	10986 Jun 23 14:12	10°♄24'35	1°43'04	minimum elong	10987 Jun 04 13:30	20°♄53'36	2°05'56
evening rise	10986 Jul 04 03:50	29°♄29'49			10987 Jun 09 23:09	0°♄	
	10986 Jul 04 10:24	0°♄		evening rise	10987 Jun 16 19:28	11°♄51'52	
asc. node	10986 Jul 06 10:09	3°♄38'57		asc. node	10987 Jun 23 07:08	23°♄07'21	
evening max el	10986 Jul 20 07:01	25°♄05'46	18°10'58		10987 Jun 27 12:17	0°♄	
retrograde	10986 Jul 27 07:36	28°♄39'32		evening max el	10987 Jul 03 20:07	8°♄14'39	18°04'14
evening set	10986 Jul 29 14:49	28°♄17'09		retrograde	10987 Jul 10 07:51	11°♄36'01	
inferior conj	10986 Aug 05 17:43	23°♄30'03	1°00'28	evening set	10987 Jul 12 22:59	11°♄02'14	
minimum elong	10986 Aug 05 19:35	23°♄25'55	0°59'24	inferior conj	10987 Jul 19 09:49	5°♄55'56	2°05'20
min. Earth dist.	10986 Aug 09 01:32	20°♄34'39	0.59524 AU	minimum elong	10987 Jul 19 12:33	5°♄48'58	2°04'01
desc. node	10986 Aug 09 03:27	20°♄30'37		min. Earth dist.	10987 Jul 22 10:05	2°♄53'26	0.61800 AU
morning rise	10986 Aug 12 21:10	17°♄48'02		morning rise	10987 Jul 25 23:47	29°♄51'40	
direct	10986 Aug 19 06:53	15°♄53'28			10987 Jul 25 19:05	30°♄	
morning max el	10986 Sep 02 15:23	23°♄43'43	27°39'43	desc. node	10987 Jul 27 00:43	29°♄11'17	
	10986 Sep 08 07:08	0°♄		direct	10987 Aug 01 16:02	27°♄31'10	
	10986 Sep 27 12:44	0°♄			10987 Aug 09 02:51	0°♄	
asc. node	10986 Oct 02 10:49	9°♄39'20		morning max el	10987 Aug 15 20:40	5°♄32'47	27°57'23
morning set	10986 Oct 04 10:26	13°♄46'00			10987 Sep 03 06:17	0°♄	
max. Earth dist.	10986 Oct 10 19:06	27°♄35'02	1.31431 AU	morning set	10987 Sep 18 11:42	27°♄51'55	
				asc. node	10987 Sep 19 07:35	29°♄34'23	
superior conj	10986 Oct 11 12:29	29°♄11'34	1°19'04		10987 Sep 19 12:31	0°♄	
minimum elong	10986 Oct 11 10:20	28°♄59'41	1°19'03	max. Earth dist.	10987 Sep 24 01:37	9°♄41'27	1.31822 AU
	10986 Oct 11 21:11	0°♄					
evening rise	10986 Oct 18 05:48	13°♄59'46		superior conj	10987 Sep 25 22:23	13°♄46'25	1°01'24
	10986 Oct 26 04:27	0°♄		minimum elong	10987 Sep 25 20:10	13°♄34'15	1°01'08
desc. node	10986 Nov 05 00:50	16°♄20'21		evening rise	10987 Oct 02 16:40	28°♄36'31	
evening max el	10986 Nov 15 15:06	29°♄07'44	26°04'32		10987 Oct 03 08:14	0°♄	
	10986 Nov 16 13:48	0°♄		desc. node	10987 Oct 20 00:08	0°♄	
retrograde	10986 Nov 29 12:57	6°♄11'00			10987 Oct 22 22:06	3°♄52'18	
evening set	10986 Dec 05 21:58	4°♄34'21		evening max el	10987 Oct 28 04:58	9°♄43'15	24°37'21
min. Earth dist.	10986 Dec 10 03:56	1°♄59'11	0.58327 AU	retrograde	10987 Nov 10 23:33	16°♄37'35	
	10986 Dec 12 21:45	30°♄		evening set	10987 Nov 16 07:49	15°♄34'01	
inferior conj	10986 Dec 13 06:24	29°♄44'12	-4°41'43	min. Earth dist.	10987 Nov 21 16:21	12°♄46'38	0.56448 AU
minimum elong	10986 Dec 13 14:30	29°♄29'28	4°39'05	inferior conj	10987 Nov 24 05:12	11°♄10'11	-5°34'14
morning rise	10986 Dec 21 09:36	25°♄18'37		minimum elong	10987 Nov 24 10:23	11°♄01'56	5°33'03
direct	10986 Dec 23 13:45	25°♄03'08		morning rise	10987 Dec 02 15:08	7°♄06'19	
asc. node	10986 Dec 29 10:52	27°♄04'24		direct	10987 Dec 05 02:28	6°♄49'40	
morning max el	10986 Dec 31 21:45	29°♄06'59	18°35'16	morning max el	10987 Dec 14 19:01	11°♄27'16	19°31'27
	10987 Jan 01 18:34	0°♄		asc. node	10987 Dec 16 07:56	13°♄02'26	
morning set	10987 Jan 16 23:07	24°♄50'53			10987 Dec 27 07:29	0°♄	
	10987 Jan 19 14:58	0°♄		morning set	10988 Jan 01 01:53	9°♄20'42	
superior conj	10987 Jan 25 19:38	11°♄48'02	0°46'54				
minimum elong	10987 Jan 25 22:29	12°♄01'15	0°46'59	superior conj	10988 Jan 09 01:41	25°♄20'56	1°11'13
desc. node	10987 Feb 01 00:11	23°♄01'01		minimum elong	10988 Jan 09 04:37	25°♄35'24	1°11'26
max. Earth dist.	10987 Feb 02 04:34	25°♄05'09	1.40084 AU		10988 Jan 11 11:12	0°♄	
	10987 Feb 05 01:19	0°♄		max. Earth dist.	10988 Jan 15 10:28	7°♄27'21	1.37866 AU
evening rise	10987 Feb 06 08:02	2°♄09'11		desc. node	10988 Jan 18 21:00	13°♄39'19	
	10987 Feb 24 09:37	0°♄		evening rise	10988 Jan 19 03:52	14°♄09'33	
					10988 Jan 28 15:24	0°♄	
					10988 Feb 19 06:21	0°♄	

evening max el	10988 Feb 23 15:29	4° Υ 41'19	25°09'15	evening max el	10989 Feb 05 05:02	18° Υ 29'46	26°16'13
retrograde	10988 Mar 06 15:44	11° Υ 39'29		retrograde	10989 Feb 18 00:35	25° Υ 45'41	
evening set	10988 Mar 12 09:49	9° Υ 16'02		evening set	10989 Feb 24 06:14	23° Υ 14'44	
asc. node	10988 Mar 13 06:08	8° Υ 29'56		asc. node	10989 Feb 28 03:26	19° Υ 14'24	
min. Earth dist.	10988 Mar 16 20:08	4° Υ 20'28	0.67841 AU	min. Earth dist.	10989 Feb 28 10:18	18° Υ 53'46	0.66806 AU
inferior conj	10988 Mar 18 01:03	2° Υ 46'01	1°28'54	inferior conj	10989 Mar 02 03:05	16° Υ 48'47	0°38'22
minimum elong	10988 Mar 17 23:11	2° Υ 52'09	1°28'16	minimum elong	10989 Mar 02 02:07	16° Υ 51'46	0°38'11
	10988 Mar 20 05:44	30° Υ		morning rise	10989 Mar 07 22:47	11° Υ 03'32	
morning rise	10988 Mar 23 12:53	26° Υ 50'56		direct	10989 Mar 11 01:38	10° Υ 08'30	
direct	10988 Mar 27 02:40	25° Υ 37'28		morning max el	10989 Mar 17 15:41	13° Υ 40'51	18°34'57
morning max el	10988 Apr 03 05:26	29° Υ 32'53	19°23'52		10989 Mar 29 18:02	0° Υ	
	10988 Apr 03 16:15	0° Υ		desc. node	10989 Apr 02 18:49	6° Υ 16'00	
desc. node	10988 Apr 15 22:07	16° Υ 10'53		morning set	10989 Apr 07 15:08	13° Υ 52'49	
greatest brilliancy	10988 Apr 15 23:11	16° Υ 14'52	-0.7m		10989 Apr 17 21:41	0° Υ	
	10988 Apr 25 01:19	0° Υ					
morning set	10988 Apr 27 22:32	4° Υ 26'01		superior conj	10989 Apr 23 17:49	9° Υ 07'51	-2°00'40
max. Earth dist.	10988 May 10 13:43	24° Υ 06'05	1.44989 AU	minimum elong	10989 Apr 23 10:02	8° Υ 37'26	2°00'31
				max. Earth dist.	10989 Apr 23 07:57	8° Υ 29'16	1.45640 AU
superior conj	10988 May 14 09:16	0° Υ 08'50	-2°13'05		10989 May 07 00:09	0° Υ	
minimum elong	10988 May 14 08:30	0° Υ 05'47	2°13'36	evening rise	10989 May 09 08:20	3° Υ 43'07	
	10988 May 14 07:03	0° Υ		greatest brilliancy	10989 May 17 15:05	16° Υ 52'03	-0.8m
evening rise	10988 May 28 13:59	23° Υ 17'41			10989 May 26 10:32	0° Υ	
	10988 Jun 01 14:39	0° Υ		asc. node	10989 May 27 01:16	0° Υ 48'51	
asc. node	10988 Jun 09 04:11	12° Υ 13'18		evening max el	10989 May 30 21:33	5° Υ 18'34	18°45'56
evening max el	10988 Jun 16 09:55	21° Υ 41'26	18°16'09	retrograde	10989 Jun 06 12:38	8° Υ 56'41	
retrograde	10988 Jun 22 18:50	25° Υ 04'30		evening set	10989 Jun 09 20:00	7° Υ 53'59	
evening set	10988 Jun 25 17:59	24° Υ 16'59		inferior conj	10989 Jun 15 10:12	2° Υ 14'14	3°09'42
inferior conj	10988 Jul 01 16:37	18° Υ 53'14	2°47'02	minimum elong	10989 Jun 15 11:26	2° Υ 10'26	3°08'58
minimum elong	10988 Jul 01 18:53	18° Υ 46'46	2°45'59		10989 Jun 17 05:30	30° Υ	
min. Earth dist.	10988 Jul 04 03:59	16° Υ 05'05	0.63941 AU	min. Earth dist.	10989 Jun 17 06:39	29° Υ 56'30	0.65761 AU
morning rise	10988 Jul 07 18:23	12° Υ 37'00		morning rise	10989 Jun 21 02:07	25° Υ 53'25	
desc. node	10988 Jul 12 21:56	10° Υ 07'12		direct	10989 Jun 27 12:22	23° Υ 09'48	
direct	10988 Jul 14 10:30	9° Υ 59'21		desc. node	10989 Jun 29 19:04	23° Υ 27'48	
morning max el	10988 Jul 28 05:55	18° Υ 01'14	27°37'44		10989 Jul 09 16:57	0° Υ	
	10988 Aug 07 06:57	0° Υ		morning max el	10989 Jul 10 16:36	0° Υ 58'35	26°46'48
	10988 Aug 26 03:40	0° Υ			10989 Aug 01 08:13	0° Υ	
morning set	10988 Sep 01 05:14	11° Υ 33'15		morning set	10989 Aug 15 12:00	24° Υ 42'15	
asc. node	10988 Sep 05 04:21	19° Υ 36'51			10989 Aug 18 05:40	0° Υ	
max. Earth dist.	10988 Sep 06 01:31	21° Υ 27'25	1.32725 AU	max. Earth dist.	10989 Aug 19 15:56	2° Υ 49'55	1.34137 AU
				asc. node	10989 Aug 23 01:08	9° Υ 42'41	
superior conj	10988 Sep 09 04:38	28° Υ 06'58	0°38'41				
minimum elong	10988 Sep 09 02:54	27° Υ 57'41	0°38'16	superior conj	10989 Aug 24 04:57	12° Υ 07'03	0°11'20
	10988 Sep 10 01:35	0° Υ		minimum elong	10989 Aug 24 04:21	12° Υ 03'58	0°10'58
evening rise	10988 Sep 16 04:05	13° Υ 12'13		behind sun begin	10989 Aug 24 00:07	11° Υ 41'52	
	10988 Sep 24 13:47	0° Υ		behind sun end	10989 Aug 24 08:36	12° Υ 26'05	
evening max el	10988 Oct 08 15:35	19° Υ 51'10	22°57'01	evening rise	10989 Aug 31 14:07	27° Υ 41'37	
desc. node	10988 Oct 08 19:24	20° Υ 00'25			10989 Sep 01 16:38	0° Υ	
retrograde	10988 Oct 21 21:15	26° Υ 26'25			10989 Sep 20 04:53	0° Υ	
evening set	10988 Oct 25 19:05	25° Υ 53'08		evening max el	10989 Sep 20 07:56	0° Υ 07'34	21°20'46
min. Earth dist.	10988 Nov 02 00:30	22° Υ 35'17	0.55115 AU	desc. node	10989 Sep 25 16:44	4° Υ 16'28	
inferior conj	10988 Nov 03 08:54	21° Υ 48'45	-5°45'32	retrograde	10989 Oct 02 09:29	6° Υ 07'02	
minimum elong	10988 Nov 03 06:26	21° Υ 52'18	5°44'58	evening set	10989 Oct 04 23:48	5° Υ 51'29	
morning rise	10988 Nov 11 19:27	17° Υ 59'24		inferior conj	10989 Oct 14 01:36	1° Υ 56'03	-4°59'46
direct	10988 Nov 14 21:04	17° Υ 37'23		minimum elong	10989 Oct 13 16:24	2° Υ 08'57	4°57'31
morning max el	10988 Nov 26 02:44	22° Υ 56'24	20°50'22	min. Earth dist.	10989 Oct 14 07:38	1° Υ 47'36	0.54599 AU
asc. node	10988 Dec 02 04:56	0° Υ 09'35			10989 Oct 17 15:12	30° Υ	
	10988 Dec 02 02:13	0° Υ		morning rise	10989 Oct 22 09:45	28° Υ 05'51	
morning set	10988 Dec 15 09:49	24° Υ 02'28		direct	10989 Oct 26 05:49	27° Υ 34'07	
	10988 Dec 18 06:28	0° Υ			10989 Nov 03 05:34	0° Υ	
superior conj	10988 Dec 22 19:26	9° Υ 25'35	1°27'42	morning max el	10989 Nov 07 21:30	3° Υ 36'36	22°28'44
minimum elong	10988 Dec 22 21:38	9° Υ 36'49	1°28'07	asc. node	10989 Nov 19 01:51	18° Υ 10'34	
max. Earth dist.	10988 Dec 27 19:03	19° Υ 24'37	1.35786 AU		10989 Nov 25 13:25	0° Υ	
evening rise	10988 Dec 31 18:05	26° Υ 56'59		morning set	10989 Nov 29 20:38	8° Υ 49'52	
	10989 Jan 02 09:56	0° Υ					
desc. node	10989 Jan 04 17:53	4° Υ 10'25		superior conj	10989 Dec 06 21:25	23° Υ 52'02	1°36'56
	10989 Jan 21 00:52	0° Υ		minimum elong	10989 Dec 06 22:29	23° Υ 57'41	1°37'29
					10989 Dec 09 19:27	0° Υ	

max. Earth dist.	10989 Dec 10 10:38	1° Z 18'24	1.34027 AU	max. Earth dist.	10990 Nov 23 10:04	13° Z 20'26	1.32685 AU
evening rise	10989 Dec 14 23:02	10° Z 22'00		evening rise	10990 Nov 28 15:11	24° Z 15'12	
desc. node	10989 Dec 22 14:51	24° Z 29'44			10990 Dec 01 12:39	0° Z	
	10989 Dec 25 20:32	0° \approx		desc. node	10990 Dec 09 11:53	14° Z 31'07	
	10990 Jan 16 15:43	0° X			10990 Dec 19 10:27	0° \approx	
evening max el	10990 Jan 18 18:37	2° X 07'58	27°05'22	evening max el	10991 Jan 01 06:45	15° \approx 23'49	27°29'46
retrograde	10990 Feb 01 03:24	9° X 30'41		retrograde	10991 Jan 14 23:37	22° \approx 45'47	
evening set	10990 Feb 07 19:09	6° X 57'13		evening set	10991 Jan 21 22:14	20° \approx 16'38	
min. Earth dist.	10990 Feb 11 17:54	3° X 09'56	0.65397 AU	min. Earth dist.	10991 Jan 25 16:50	17° \approx 00'22	0.63648 AU
inferior conj	10990 Feb 13 22:30	0° X 41'39	-0°21'33	inferior conj	10991 Jan 28 08:40	14° \approx 18'03	-1°30'09
minimum elong	10990 Feb 13 23:07	0° X 39'55	0°20'56	minimum elong	10991 Jan 28 11:33	14° \approx 10'40	1°28'29
	10990 Feb 14 13:19	30° R \approx		asc. node	10991 Feb 01 21:53	10° \approx 12'51	
asc. node	10990 Feb 15 00:41	29° \approx 28'38		morning rise	10991 Feb 04 02:58	9° \approx 00'19	
morning rise	10990 Feb 20 04:29	25° \approx 08'43		direct	10991 Feb 06 12:42	8° \approx 31'58	
direct	10990 Feb 22 21:53	24° \approx 28'49		morning max el	10991 Feb 13 00:37	11° \approx 52'54	17°47'56
morning max el	10990 Mar 01 07:01	27° \approx 50'03	18°02'49		10991 Feb 25 11:03	0° X	
	10990 Mar 03 06:53	0° X		morning set	10991 Mar 01 12:39	6° X 57'14	
morning set	10990 Mar 19 12:18	24° X 45'32		desc. node	10991 Mar 07 12:13	17° X 08'24	
desc. node	10990 Mar 20 15:31	26° X 36'44					
	10990 Mar 22 17:24	0° Y		superior conj	10991 Mar 14 05:02	28° X 15'05	-0°48'56
superior conj	10990 Apr 03 02:45	18° Y 14'54	-1°29'49	minimum elong	10991 Mar 13 23:50	27° X 53'51	0°48'08
minimum elong	10990 Apr 02 17:36	17° Y 38'48	1°28'58		10991 Mar 15 06:50	0° Y	
max. Earth dist.	10990 Apr 06 04:11	23° Y 03'42	1.45544 AU	max. Earth dist.	10991 Mar 19 23:09	7° Y 30'43	1.44714 AU
	10990 Apr 10 14:49	0° Z		evening rise	10991 Mar 29 17:11	22° Y 43'28	
evening rise	10990 Apr 19 05:38	13° Z 21'09			10991 Apr 03 11:48	0° Z	
	10990 Apr 30 02:29	0° II			10991 Apr 24 18:30	0° II	
greatest brilliancy	10990 May 02 10:46	3° II 30'41	-0.7m	evening max el	10991 Apr 27 06:26	2° II 43'42	20°33'29
asc. node	10990 May 13 22:24	18° II 43'55		asc. node	10991 Apr 30 19:35	5° II 46'29	
evening max el	10990 May 14 04:46	19° II 00'10	19°32'21	retrograde	10991 May 05 08:57	7° II 26'19	
retrograde	10990 May 21 10:08	23° II 05'35		evening set	10991 May 09 10:27	5° II 51'54	
evening set	10990 May 25 02:12	21° II 47'02		inferior conj	10991 May 14 17:15	29° Z 44'38	3°11'43
inferior conj	10990 May 30 11:17	15° II 52'40	3°17'02	minimum elong	10991 May 14 16:18	29° Z 47'55	3°11'07
minimum elong	10990 May 30 11:21	15° II 52'26	3°16'27		10991 May 14 12:47	30° R Z	
min. Earth dist.	10990 May 31 16:48	14° II 15'04	0.67169 AU	min. Earth dist.	10991 May 15 08:44	28° Z 51'24	0.68123 AU
morning rise	10990 Jun 04 20:08	9° II 31'49		morning rise	10991 May 19 21:54	23° Z 26'35	
direct	10990 Jun 10 20:29	6° II 52'45		direct	10991 May 25 10:00	21° Z 00'12	
desc. node	10990 Jun 16 16:07	8° II 49'52		desc. node	10991 Jun 03 13:04	25° Z 44'57	
morning max el	10990 Jun 23 02:56	14° II 13'40	25°33'02	morning max el	10991 Jun 05 12:41	27° Z 39'13	24°06'18
	10990 Jul 05 23:10	0° Z			10991 Jun 07 17:43	0° II	
	10990 Jul 25 03:37	0° Ω			10991 Jun 29 14:58	0° Z	
morning set	10990 Jul 29 04:03	7° Ω 07'52		morning set	10991 Jul 11 00:44	18° Z 39'09	
max. Earth dist.	10990 Aug 01 20:14	13° Ω 56'06	1.36010 AU	max. Earth dist.	10991 Jul 14 17:57	25° Z 10'08	1.38212 AU
					10991 Jul 17 10:07	0° Ω	
superior conj	10990 Aug 07 20:29	25° Ω 38'11	-0°19'51	superior conj	10991 Jul 21 23:54	8° Ω 32'48	-0°53'16
minimum elong	10990 Aug 07 21:43	25° Ω 44'22	0°20'01	minimum elong	10991 Jul 22 03:29	8° Ω 49'54	0°53'09
asc. node	10990 Aug 09 21:54	29° Ω 47'18		asc. node	10991 Jul 27 18:44	19° Ω 47'27	
	10990 Aug 10 00:24	0° II		evening rise	10991 Jul 30 20:56	25° Ω 53'45	
evening rise	10990 Aug 15 20:35	11° II 57'35			10991 Aug 01 23:11	0° II	
	10990 Aug 25 08:35	0° Ω		evening max el	10991 Aug 16 07:09	22° II 40'28	19°01'36
evening max el	10990 Sep 02 12:47	11° Ω 00'31	20°00'43	retrograde	10991 Aug 25 02:50	27° II 04'23	
retrograde	10990 Sep 12 23:27	16° Ω 12'00		evening set	10991 Aug 26 23:41	26° II 53'20	
desc. node	10990 Sep 12 14:04	16° Ω 11'35		desc. node	10991 Aug 30 11:23	25° II 39'35	
evening set	10990 Sep 14 21:38	16° Ω 02'12		inferior conj	10991 Sep 04 08:33	22° II 38'28	-1°31'30
inferior conj	10990 Sep 23 21:10	12° Ω 02'21	-3°24'57	minimum elong	10991 Sep 04 04:36	22° II 45'19	1°30'05
minimum elong	10990 Sep 23 12:19	12° Ω 15'40	3°21'52	min. Earth dist.	10991 Sep 07 06:08	20° II 38'32	0.56316 AU
min. Earth dist.	10990 Sep 25 16:40	10° Ω 56'49	0.55020 AU	morning rise	10991 Sep 12 06:23	17° II 50'15	
morning rise	10990 Oct 02 01:47	7° Ω 50'15		direct	10991 Sep 17 16:50	16° II 40'46	
direct	10990 Oct 06 17:01	7° Ω 03'32		morning max el	10991 Oct 01 21:39	23° II 57'29	25°56'29
morning max el	10990 Oct 20 09:08	13° Ω 46'31	24°16'23		10991 Oct 07 09:53	0° Ω	
	10990 Nov 01 22:54	0° III		asc. node	10991 Oct 23 19:32	26° Ω 03'20	
asc. node	10990 Nov 05 22:43	6° III 51'53			10991 Oct 25 19:32	0° III	
morning set	10990 Nov 14 08:27	23° III 36'59		morning set	10991 Oct 29 19:34	8° III 19'01	
	10990 Nov 17 07:16	0° Z					
superior conj	10990 Nov 21 04:48	8° Z 31'44	1°39'33	superior conj	10991 Nov 05 15:21	23° III 17'55	1°36'03
minimum elong	10990 Nov 21 04:41	8° Z 31'07	1°40'06	minimum elong	10991 Nov 05 14:12	23° III 11'35	1°36'28
				max. Earth dist.	10991 Nov 06 15:45	25° III 32'59	1.31809 AU

	10991 Nov 08 16:22	0°♊		asc. node	10992 Oct 09 16:21	15°♊36'54	
evening rise	10991 Nov 12 15:34	8°♊29'08		morning set	10992 Oct 13 04:22	22°♊51'17	
	10991 Nov 23 22:07	0°♊			10992 Oct 16 11:42	0°♊	
desc. node	10991 Nov 26 08:58	4°♊06'52					
evening max el	10991 Dec 14 15:21	28°♊04'54	27°23'25	superior conj	10992 Oct 20 03:07	8°♊04'33	1°26'52
	10991 Dec 16 18:56	0°♊		minimum elong	10992 Oct 20 01:14	7°♊54'03	1°27'01
retrograde	10991 Dec 28 12:29	5°♊21'12		max. Earth dist.	10992 Oct 20 00:41	7°♊51'02	1.31421 AU
evening set	10992 Jan 04 12:24	3°♊05'13		evening rise	10992 Oct 26 21:42	22°♊57'08	
min. Earth dist.	10992 Jan 08 05:42	0°♊13'53	0.61644 AU		10992 Oct 30 07:01	0°♊	
	10992 Jan 08 12:03	30°♊		desc. node	10992 Nov 12 06:07	23°♊06'48	
inferior conj	10992 Jan 11 06:25	27°♊29'52	-2°45'16		10992 Nov 17 01:05	0°♊	
minimum elong	10992 Jan 11 12:01	27°♊17'12	2°42'35	evening max el	10992 Nov 25 17:59	10°♊00'36	26°43'01
morning rise	10992 Jan 18 14:17	22°♊30'18		retrograde	10992 Dec 09 16:34	17°♊08'44	
asc. node	10992 Jan 19 19:05	22°♊14'01		evening set	10992 Dec 16 09:47	15°♊15'36	
direct	10992 Jan 20 18:43	22°♊09'47		min. Earth dist.	10992 Dec 20 08:08	12°♊38'34	0.59520 AU
morning max el	10992 Jan 27 17:16	25°♊40'17	17°50'54	inferior conj	10992 Dec 23 12:21	10°♊08'22	-4°01'26
	10992 Jan 31 08:55	0°♊		minimum elong	10992 Dec 23 20:09	9°♊52'56	3°58'24
morning set	10992 Feb 12 09:56	20°♊07'52		morning rise	10992 Dec 31 09:16	5°♊29'35	
	10992 Feb 17 22:12	0°♊		direct	10993 Jan 02 11:57	5°♊13'17	
desc. node	10992 Feb 22 08:55	7°♊46'24		asc. node	10993 Jan 05 16:14	5°♊52'02	
				morning max el	10993 Jan 10 05:24	9°♊02'40	18°13'03
superior conj	10992 Feb 23 07:53	9°♊25'01	-0°07'19		10993 Jan 23 19:06	0°♊	
minimum elong	10992 Feb 23 07:14	9°♊22'15	0°06'56	morning set	10993 Jan 25 22:13	4°♊00'08	
behind sun begin	10992 Feb 22 23:29	8°♊49'02					
behind sun end	10992 Feb 23 14:59	9°♊55'24		superior conj	10993 Feb 04 10:13	21°♊40'55	0°29'13
max. Earth dist.	10992 Mar 01 14:13	21°♊32'54	1.43253 AU	minimum elong	10993 Feb 04 12:21	21°♊50'31	0°29'19
	10992 Mar 06 20:46	0°♊		desc. node	10993 Feb 08 05:41	28°♊27'37	
evening rise	10992 Mar 08 10:18	2°♊27'22			10993 Feb 09 02:53	0°♊	
	10992 Mar 26 23:07	0°♊		max. Earth dist.	10993 Feb 12 00:45	4°♊59'27	1.41329 AU
evening max el	10992 Apr 09 02:38	16°♊28'07	21°46'11	evening rise	10993 Feb 16 20:48	13°♊00'37	
asc. node	10992 Apr 16 16:50	21°♊40'46			10993 Feb 27 18:33	0°♊	
retrograde	10992 Apr 18 07:06	21°♊53'06			10993 Mar 22 12:49	0°♊	
evening set	10992 Apr 22 18:58	20°♊03'19		evening max el	10993 Mar 22 18:46	0°♊14'58	23°05'35
inferior conj	10992 Apr 28 01:50	13°♊45'25	2°55'30	retrograde	10993 Apr 02 02:54	6°♊21'23	
minimum elong	10992 Apr 28 00:07	13°♊51'24	2°54'48	asc. node	10993 Apr 03 14:07	6°♊11'06	
min. Earth dist.	10992 Apr 28 04:14	13°♊37'03	0.68615 AU	evening set	10993 Apr 07 02:08	4°♊17'03	
morning rise	10992 May 03 05:04	7°♊32'01			10993 Apr 10 21:30	30°♊	
direct	10992 May 08 03:57	5°♊23'51		inferior conj	10993 Apr 12 11:02	27°♊51'32	2°29'21
morning max el	10992 May 17 23:33	11°♊11'46	22°36'29	minimum elong	10993 Apr 12 08:54	27°♊58'54	2°28'34
desc. node	10992 May 20 09:58	13°♊47'38		min. Earth dist.	10993 Apr 12 01:03	28°♊26'05	0.68659 AU
	10992 Jun 01 21:19	0°♊		morning rise	10993 Apr 17 15:34	21°♊44'12	
morning set	10992 Jun 20 21:06	29°♊03'25		direct	10993 Apr 22 01:09	19°♊57'09	
	10992 Jun 21 10:54	0°♊		morning max el	10993 Apr 30 14:54	24°♊53'43	21°12'06
max. Earth dist.	10992 Jun 25 15:34	7°♊00'28	1.40511 AU		10993 May 05 04:09	0°♊	
				desc. node	10993 May 07 06:49	2°♊39'26	
superior conj	10992 Jul 03 11:03	20°♊41'19	-1°26'08		10993 May 26 07:00	0°♊	
minimum elong	10992 Jul 03 16:53	21°♊07'38	1°25'56	morning set	10993 May 31 15:17	8°♊17'18	
	10992 Jul 08 12:39	0°♊		max. Earth dist.	10993 Jun 07 18:58	19°♊44'58	1.42629 AU
evening rise	10992 Jul 13 11:56	9°♊21'35			10993 Jun 13 22:42	0°♊	
asc. node	10992 Jul 13 15:37	9°♊39'01					
	10992 Jul 25 08:22	0°♊		superior conj	10993 Jun 15 01:26	1°♊53'47	-1°54'05
evening max el	10992 Jul 29 12:00	5°♊03'02	18°23'40	minimum elong	10993 Jun 15 07:52	2°♊21'19	1°54'09
retrograde	10992 Aug 06 00:59	8°♊50'29		evening rise	10993 Jun 26 13:27	22°♊10'52	
evening set	10992 Aug 08 03:48	8°♊33'21		asc. node	10993 Jun 30 12:34	29°♊17'27	
inferior conj	10992 Aug 15 17:28	3°♊58'31	0°11'36		10993 Jun 30 22:10	0°♊	
minimum elong	10992 Aug 15 17:52	3°♊57'42	0°11'07	evening max el	10993 Jul 12 23:16	17°♊58'17	18°05'50
transit middle	10992 Aug 15 17:52	3°♊57'42	0°11'07	retrograde	10993 Jul 19 16:52	21°♊24'34	
transit begin	10992 Aug 15 15:19	4°♊02'53		evening set	10993 Jul 22 03:34	20°♊57'33	
transit end	10992 Aug 15 20:26	3°♊52'30		inferior conj	10993 Jul 28 23:11	16°♊02'11	1°31'03
desc. node	10992 Aug 16 08:40	3°♊27'34		minimum elong	10993 Jul 29 01:39	15°♊56'23	1°29'46
min. Earth dist.	10992 Aug 19 01:38	1°♊17'14	0.58252 AU	min. Earth dist.	10993 Aug 01 04:48	13°♊00'58	0.60499 AU
	10992 Aug 20 19:55	30°♊		desc. node	10993 Aug 03 05:58	11°♊18'18	
morning rise	10992 Aug 23 04:24	28°♊34'02		morning rise	10993 Aug 04 20:54	10°♊09'42	
direct	10992 Aug 29 07:28	26°♊55'49		direct	10993 Aug 11 10:28	8°♊03'07	
	10992 Sep 07 01:57	0°♊		morning max el	10993 Aug 25 17:30	15°♊58'51	27°52'00
morning max el	10992 Sep 12 16:02	4°♊36'44	27°12'02		10993 Sep 06 05:05	0°♊	
	10992 Oct 01 07:15	0°♊			10993 Sep 23 20:36	0°♊	

asc. node	10993 Sep 26 13:08	5°♄25'38		asc. node	10994 Sep 13 09:54	25°♄24'41	
morning set	10993 Sep 27 08:55	7°♄08'05			10994 Sep 15 14:14	0°♄	
max. Earth dist.	10993 Oct 03 09:12	20°♄04'46	1.31534 AU	max. Earth dist.	10994 Sep 16 13:35	2°♄04'51	1.32150 AU
superior conj	10993 Oct 04 14:12	22°♄45'08	1°12'14	superior conj	10994 Sep 18 22:47	7°♄14'42	0°52'22
minimum elong	10993 Oct 04 11:58	22°♄32'46	1°12'05	minimum elong	10994 Sep 18 20:42	7°♄03'20	0°52'01
	10993 Oct 07 20:36	0°♄		evening rise	10994 Sep 25 18:44	22°♄09'44	
evening rise	10993 Oct 11 07:24	7°♄32'21			10994 Sep 29 12:29	0°♄	
	10993 Oct 22 20:11	0°♄		desc. node	10994 Oct 17 00:37	28°♄15'26	
desc. node	10993 Oct 30 03:21	11°♄16'04			10994 Oct 18 14:49	0°♄	
evening max el	10993 Nov 07 12:31	21°♄03'53	25°30'16	evening max el	10994 Oct 20 00:03	1°♄23'33	23°55'08
retrograde	10993 Nov 21 09:37	28°♄03'10		retrograde	10994 Nov 02 14:14	8°♄11'03	
evening set	10993 Nov 27 09:34	26°♄40'37		evening set	10994 Nov 07 08:52	7°♄21'11	
min. Earth dist.	10993 Dec 02 00:48	24°♄02'31	0.57480 AU	min. Earth dist.	10994 Nov 13 10:31	4°♄23'09	0.55802 AU
inferior conj	10993 Dec 04 23:01	22°♄02'32	-5°07'37	inferior conj	10994 Nov 15 13:06	3°♄06'56	-5°45'18
minimum elong	10993 Dec 05 06:31	21°♄49'40	5°05'31	minimum elong	10994 Nov 15 15:27	3°♄03'23	5°44'40
morning rise	10993 Dec 13 05:47	17°♄46'10			10994 Nov 21 09:54	30°♄	
direct	10993 Dec 15 12:13	17°♄30'33		morning rise	10994 Nov 23 23:58	29°♄10'49	
asc. node	10993 Dec 23 13:19	21°♄02'19		direct	10994 Nov 26 16:53	28°♄52'16	
morning max el	10993 Dec 24 09:04	21°♄47'55	18°56'20		10994 Dec 01 16:33	0°♄	
	10993 Dec 30 19:10	0°♄		morning max el	10994 Dec 07 00:39	3°♄46'15	20°02'22
morning set	10994 Jan 09 20:44	18°♄19'15		asc. node	10994 Dec 10 10:20	7°♄31'15	
	10994 Jan 15 19:24	0°♄			10994 Dec 23 15:24	0°♄	
superior conj	10994 Jan 18 07:30	4°♄49'14	0°58'12	morning set	10994 Dec 25 01:58	2°♄54'53	
minimum elong	10994 Jan 18 10:32	5°♄03'40	0°58'18	superior conj	10995 Jan 01 18:58	18°♄36'46	1°19'09
max. Earth dist.	10994 Jan 25 07:49	17°♄45'12	1.39146 AU	minimum elong	10995 Jan 01 21:40	18°♄50'15	1°19'26
desc. node	10994 Jan 26 02:29	19°♄07'52		max. Earth dist.	10995 Jan 07 14:32	29°♄55'27	1.36953 AU
evening rise	10994 Jan 29 04:37	24°♄29'47			10995 Jan 07 15:30	0°♄	
	10994 Feb 01 11:14	0°♄		evening rise	10995 Jan 11 08:37	6°♄50'39	
	10994 Feb 21 12:36	0°♄		desc. node	10995 Jan 12 23:20	9°♄43'29	
evening max el	10994 Mar 05 08:45	14°♄04'47	24°25'37		10995 Jan 25 07:35	0°♄	
retrograde	10994 Mar 16 19:12	20°♄46'15		evening max el	10995 Feb 15 22:04	27°♄54'44	25°39'25
asc. node	10994 Mar 21 11:24	19°♄06'39			10995 Feb 18 04:11	0°♄	
evening set	10994 Mar 22 06:26	18°♄29'01		retrograde	10995 Feb 28 06:57	5°♄01'35	
min. Earth dist.	10994 Mar 26 20:56	13°♄13'28	0.68266 AU	evening set	10995 Mar 06 06:14	2°♄34'11	
inferior conj	10994 Mar 27 19:00	11°♄59'30	1°53'43	asc. node	10995 Mar 08 08:41	0°♄31'26	
minimum elong	10994 Mar 27 16:53	12°♄06'37	1°52'57		10995 Mar 08 19:55	30°♄	
morning rise	10994 Apr 02 03:26	5°♄59'41		min. Earth dist.	10995 Mar 10 13:43	27°♄53'44	0.67452 AU
direct	10994 Apr 06 00:14	4°♄34'17		inferior conj	10995 Mar 11 23:45	26°♄05'22	1°08'37
morning max el	10994 Apr 13 13:32	8°♄48'04	19°59'11	minimum elong	10995 Mar 11 22:11	26°♄10'23	1°08'09
desc. node	10994 Apr 24 03:37	22°♄07'07		morning rise	10995 Mar 17 14:39	20°♄14'30	
	10994 Apr 29 13:37	0°♄		direct	10995 Mar 20 23:38	19°♄09'15	
morning set	10994 May 10 16:01	16°♄48'22		morning max el	10995 Mar 27 19:58	22°♄53'00	19°01'05
	10994 May 19 03:08	0°♄			10995 Apr 02 18:39	0°♄	
max. Earth dist.	10994 May 21 05:54	3°♄21'20	1.44304 AU	greatest brilliancy	10995 Apr 10 05:43	10°♄50'11	-0.7m
superior conj	10994 May 26 15:45	12°♄04'03	-2°10'59	desc. node	10995 Apr 11 00:21	12°♄00'48	
minimum elong	10994 May 26 18:55	12°♄16'56	2°11'28	morning set	10995 Apr 19 20:36	25°♄37'47	
	10994 Jun 06 09:57	0°♄			10995 Apr 22 16:13	0°♄	
evening rise	10994 Jun 08 20:39	4°♄10'33		max. Earth dist.	10995 May 03 22:19	17°♄32'52	1.45356 AU
asc. node	10994 Jun 17 09:35	18°♄37'27		superior conj	10995 May 06 08:07	21°♄20'07	-2°10'21
	10994 Jun 25 08:16	0°♄		minimum elong	10995 May 06 04:04	21°♄04'09	2°10'40
evening max el	10994 Jun 26 13:06	1°♄16'21	18°07'04		10995 May 11 19:17	0°♄	
retrograde	10994 Jul 02 22:20	4°♄36'38		evening rise	10995 May 21 05:03	15°♄11'02	
evening set	10994 Jul 05 16:57	3°♄57'05			10995 May 30 08:18	0°♄	
	10994 Jul 10 16:46	30°♄		asc. node	10995 Jun 04 06:38	7°♄31'39	
inferior conj	10994 Jul 11 22:05	28°♄42'53	2°25'35	evening max el	10995 Jun 10 02:12	14°♄48'02	18°26'37
minimum elong	10994 Jul 12 00:44	28°♄35'46	2°24'22	retrograde	10995 Jun 16 12:46	18°♄16'15	
min. Earth dist.	10994 Jul 14 17:09	25°♄44'29	0.62742 AU	evening set	10995 Jun 19 15:20	17°♄22'24	
morning rise	10994 Jul 18 06:38	22°♄32'37		inferior conj	10995 Jun 25 09:55	11°♄51'25	2°58'44
desc. node	10994 Jul 21 03:11	20°♄52'17		minimum elong	10995 Jun 25 11:47	11°♄45'52	2°57'50
direct	10994 Jul 24 23:34	20°♄03'53		min. Earth dist.	10995 Jun 27 14:55	9°♄14'45	0.64759 AU
morning max el	10994 Aug 08 00:49	28°♄06'09	27°53'23	morning rise	10995 Jul 01 07:08	5°♄32'16	
	10994 Aug 09 20:34	0°♄		direct	10995 Jul 07 21:09	2°♄51'00	
	10994 Aug 31 00:22	0°♄		desc. node	10995 Jul 08 00:21	2°♄51'03	
morning set	10994 Sep 11 07:11	21°♄04'29		morning max el	10995 Jul 21 11:13	10°♄49'17	27°19'28

	10995 Aug 05 14:53	0°♎		direct	10996 Jun 20 01:59	16°♐16'34	
	10995 Aug 23 11:40	0°♏		desc. node	10996 Jun 23 21:27	17°♐07'01	
morning set	10995 Aug 25 20:31	4°♏33'04		morning max el	10996 Jul 02 22:00	23°♐56'11	26°17'30
max. Earth dist.	10995 Aug 30 09:52	13°♏41'28	1.33269 AU		10996 Jul 08 08:05	0°♑	
asc. node	10995 Aug 31 06:40	15°♏29'03			10996 Jul 29 00:10	0°♎	
				morning set	10996 Aug 07 21:34	17°♎25'18	
superior conj	10995 Sep 03 02:44	21°♏26'55	0°27'36	max. Earth dist.	10996 Aug 11 19:36	24°♎54'06	1.34882 AU
minimum elong	10995 Sep 03 01:25	21°♏19'52	0°27'10		10996 Aug 14 09:26	0°♏	
	10995 Sep 07 02:27	0°♑					
evening rise	10995 Sep 10 05:47	6°♑43'13		superior conj	10996 Aug 16 23:40	5°♏15'35	-0°01'33
	10995 Sep 22 12:51	0°♒		minimum elong	10996 Aug 16 23:47	5°♏16'08	0°01'51
evening max el	10995 Oct 01 11:40	11°♒29'27	22°14'34	behind sun begin	10996 Aug 16 17:51	4°♏45'47	
desc. node	10995 Oct 03 21:55	13°♒39'23		behind sun end	10996 Aug 17 05:42	5°♏46'31	
retrograde	10995 Oct 14 07:25	17°♒52'23		asc. node	10996 Aug 17 03:28	5°♏35'06	
evening set	10995 Oct 17 14:30	17°♒28'19		evening rise	10996 Aug 24 14:33	21°♏07'29	
min. Earth dist.	10995 Oct 25 17:41	13°♒52'32	0.54781 AU		10996 Aug 28 23:35	0°♑	
inferior conj	10995 Oct 26 10:36	13°♒28'45	-5°33'18	evening max el	10996 Sep 12 08:50	21°♑59'07	20°44'18
minimum elong	10995 Oct 26 04:38	13°♒37'08	5°32'12	desc. node	10996 Sep 19 19:14	26°♑58'18	
morning rise	10995 Nov 03 20:18	9°♒41'41		retrograde	10996 Sep 23 18:55	27°♑39'04	
direct	10995 Nov 07 05:15	9°♒16'18		evening set	10996 Sep 25 23:54	27°♑27'16	
morning max el	10995 Nov 19 02:33	14°♒53'41	21°30'26	inferior conj	10996 Oct 05 02:41	23°♑31'49	-4°24'03
asc. node	10995 Nov 27 07:17	25°♒02'59		minimum elong	10996 Oct 04 16:44	23°♑46'04	4°21'05
	10995 Nov 30 08:27	0°♓		min. Earth dist.	10996 Oct 06 01:42	22°♑58'51	0.54657 AU
morning set	10995 Dec 09 11:20	17°♓39'50		morning rise	10996 Oct 13 09:27	19°♑34'16	
	10995 Dec 15 07:42	0°♑		direct	10996 Oct 17 13:29	18°♑56'58	
				morning max el	10996 Oct 30 17:25	25°♑18'16	23°14'22
superior conj	10995 Dec 16 16:36	2°♑52'08	1°32'28		10996 Nov 04 02:14	0°♒	
minimum elong	10995 Dec 16 18:20	3°♑01'11	1°32'58	asc. node	10996 Nov 13 04:12	13°♒22'43	
max. Earth dist.	10995 Dec 21 01:30	11°♑48'10	1.34981 AU		10996 Nov 21 18:47	0°♓	
evening rise	10995 Dec 25 05:30	19°♑55'11		morning set	10996 Nov 22 22:44	2°♓27'34	
desc. node	10995 Dec 30 20:15	0°♒10'23					
	10995 Dec 30 17:53	0°♒		superior conj	10996 Nov 29 21:10	17°♓25'21	1°38'48
	10996 Jan 19 07:55	0°♓		minimum elong	10996 Nov 29 21:43	17°♓28'20	1°39'24
evening max el	10996 Jan 29 11:28	11°♓39'38	26°39'44	max. Earth dist.	10996 Dec 02 20:10	23°♓43'16	1.33392 AU
retrograde	10996 Feb 11 13:29	19°♓00'30			10996 Dec 05 21:03	0°♑	
evening set	10996 Feb 17 23:45	16°♓27'27		evening rise	10996 Dec 07 15:36	3°♑33'27	
min. Earth dist.	10996 Feb 22 01:17	12°♓21'12	0.66244 AU	desc. node	10996 Dec 16 17:13	20°♑22'57	
asc. node	10996 Feb 23 05:56	10°♓56'34			10996 Dec 22 13:07	0°♒	
inferior conj	10996 Feb 23 23:14	10°♓04'57	0°14'06	evening max el	10997 Jan 11 00:37	25°♒09'52	27°19'18
minimum elong	10996 Feb 23 22:51	10°♓06'06	0°14'13		10997 Jan 17 00:55	0°♓	
transit middle	10996 Feb 23 22:51	10°♓06'06	0°14'13	retrograde	10997 Jan 24 13:49	2°♓33'49	
transit begin	10996 Feb 23 21:30	10°♓10'08		evening set	10997 Jan 31 08:48	0°♓01'18	
transit end	10996 Feb 24 00:13	10°♓02'04			10997 Jan 31 09:29	30°♒	
morning rise	10996 Feb 29 23:04	4°♓24'54		min. Earth dist.	10997 Feb 04 05:33	26°♒27'30	0.64680 AU
direct	10996 Mar 03 21:36	3°♓36'53		inferior conj	10997 Feb 06 15:03	23°♒51'50	-0°49'40
morning max el	10996 Mar 10 08:46	7°♓03'18	18°19'17	minimum elong	10997 Feb 06 16:33	23°♒47'45	0°48'38
	10996 Mar 26 11:34	0°♑		asc. node	10997 Feb 09 03:10	21°♒16'16	
desc. node	10996 Mar 27 21:04	2°♑13'37		morning rise	10997 Feb 13 02:03	18°♒24'54	
morning set	10996 Mar 30 00:53	5°♑40'36		direct	10997 Feb 15 15:50	17°♒50'29	
	10996 Apr 14 10:10	0°♒		morning max el	10997 Feb 22 01:24	21°♒10'47	17°54'22
					10997 Feb 28 21:22	0°♓	
superior conj	10996 Apr 14 14:37	0°♓17'28	-1°49'27	morning set	10997 Mar 11 10:13	17°♓08'50	
minimum elong	10996 Apr 14 05:23	29°♑41'20	1°48'57	desc. node	10997 Mar 14 17:44	22°♓39'29	
max. Earth dist.	10996 Apr 15 17:26	2°♓02'15	1.45687 AU		10997 Mar 19 04:50	0°♑	
evening rise	10996 Apr 30 13:43	25°♓14'20					
	10996 May 03 14:38	0°♐		superior conj	10997 Mar 25 05:20	9°♑43'12	-1°13'07
greatest brilliancy	10996 May 11 03:18	11°♐42'30	-0.8m	minimum elong	10997 Mar 24 21:29	9°♑11'53	1°12'12
asc. node	10996 May 21 03:44	25°♐51'49		max. Earth dist.	10997 Mar 29 12:55	16°♑33'43	1.45274 AU
evening max el	10996 May 23 12:08	28°♐27'48	19°03'38		10997 Apr 07 04:01	0°♓	
	10996 May 25 04:27	0°♑		evening rise	10997 Apr 10 04:58	4°♓40'38	
retrograde	10996 May 30 08:32	2°♑16'30		greatest brilliancy	10997 Apr 24 23:18	26°♓56'16	-0.6m
evening set	10996 Jun 02 19:25	1°♑07'17			10997 Apr 27 02:16	0°♐	
	10996 Jun 04 05:31	30°♒♐		evening max el	10997 May 06 17:08	12°♐11'05	19°56'45
inferior conj	10996 Jun 08 07:05	25°♐21'09	3°14'30	asc. node	10997 May 08 00:54	13°♐26'40	
minimum elong	10996 Jun 08 07:49	25°♐18'49	3°13'50	retrograde	10997 May 14 06:48	16°♐31'13	
min. Earth dist.	10996 Jun 09 21:10	23°♐19'23	0.66416 AU	evening set	10997 May 18 02:44	15°♐06'05	
morning rise	10996 Jun 13 19:37	18°♐59'34		inferior conj	10997 May 23 10:34	9°♐06'16	3°16'12

minimum elong	10997 May 23 10:10	9° Π 07'35	3°15'37	inferior conj	10998 May 07 17:53	23° \mathcal{B} 02'08	3°06'05
min. Earth dist.	10997 May 24 10:05	7° Π 46'57	0.67635 AU	minimum elong	10998 May 07 16:34	23° \mathcal{B} 06'42	3°05'27
morning rise	10997 May 28 17:17	2° Π 46'19		min. Earth dist.	10998 May 08 03:42	22° \mathcal{B} 28'06	0.68391 AU
direct	10997 Jun 03 12:44	0° Π 11'28		morning rise	10998 May 12 21:37	16° \mathcal{B} 46'07	
desc. node	10997 Jun 10 18:27	3° Π 12'15		direct	10998 May 18 04:16	14° \mathcal{B} 26'54	
morning max el	10997 Jun 15 07:51	7° Π 16'12	24°57'01	morning max el	10998 May 28 17:35	20° \mathcal{B} 44'06	23°27'57
	10997 Jul 03 00:56	0° \mathcal{E}		desc. node	10998 May 28 15:24	20° \mathcal{B} 38'36	
morning set	10997 Jul 21 06:04	29° \mathcal{E} 30'13			10998 Jun 05 16:09	0° Π	
	10997 Jul 21 12:46	0° \mathcal{Q}			10998 Jun 26 06:13	0° \mathcal{E}	
max. Earth dist.	10997 Jul 24 20:06	5° \mathcal{Q} 59'09	1.36919 AU	morning set	10998 Jul 02 16:57	10° \mathcal{E} 34'16	
				max. Earth dist.	10998 Jul 06 17:14	17° \mathcal{E} 27'02	1.39198 AU
					10998 Jul 13 16:35	0° \mathcal{Q}	
superior conj	10997 Jul 31 10:36	18° \mathcal{Q} 33'23	-0°33'53	superior conj	10998 Jul 14 07:43	1° \mathcal{Q} 10'16	-1°07'28
minimum elong	10997 Jul 31 12:47	18° \mathcal{Q} 44'07	0°33'55	minimum elong	10998 Jul 14 12:19	1° \mathcal{Q} 31'46	1°07'17
asc. node	10997 Aug 04 00:15	25° \mathcal{Q} 38'46		asc. node	10998 Jul 21 21:07	15° \mathcal{Q} 36'08	
	10997 Aug 06 04:06	0° \mathcal{N}		evening rise	10998 Jul 23 15:39	19° \mathcal{Q} 02'19	
evening rise	10997 Aug 08 18:48	5° \mathcal{N} 16'34			10998 Jul 29 10:35	0° \mathcal{N}	
	10997 Aug 22 23:31	0° \mathcal{A}		evening max el	10998 Aug 08 19:13	15° \mathcal{N} 13'00	18°42'52
evening max el	10997 Aug 25 19:52	3° \mathcal{A} 13'31	19°32'58	retrograde	10998 Aug 17 00:21	19° \mathcal{N} 19'37	
retrograde	10997 Sep 04 13:05	8° \mathcal{A} 03'17		evening set	10998 Aug 18 23:24	19° \mathcal{N} 06'23	
evening set	10997 Sep 06 09:27	7° \mathcal{A} 53'34		desc. node	10998 Aug 24 13:54	16° \mathcal{N} 26'49	
desc. node	10997 Sep 06 16:34	7° \mathcal{A} 50'16		inferior conj	10998 Aug 27 00:11	14° \mathcal{N} 42'56	-0°45'19
inferior conj	10997 Sep 15 03:52	3° \mathcal{A} 48'42	-2°37'04	minimum elong	10998 Aug 26 22:20	14° \mathcal{N} 46'22	0°44'49
minimum elong	10997 Sep 14 20:54	3° \mathcal{A} 59'46	2°34'29	min. Earth dist.	10998 Aug 30 03:59	12° \mathcal{N} 23'36	0.57086 AU
min. Earth dist.	10997 Sep 17 12:28	2° \mathcal{A} 19'01	0.55479 AU	morning rise	10998 Sep 03 17:53	9° \mathcal{N} 39'02	
	10997 Sep 21 17:24	30° \mathcal{R} \mathcal{N}		direct	10998 Sep 09 11:59	8° \mathcal{N} 17'58	
morning rise	10997 Sep 23 06:08	29° \mathcal{N} 22'21		morning max el	10998 Sep 23 18:58	15° \mathcal{N} 45'05	26°32'26
direct	10997 Sep 28 06:02	28° \mathcal{N} 26'36			10998 Oct 05 08:33	0° \mathcal{A}	
	10997 Oct 04 16:11	0° \mathcal{A}		asc. node	10998 Oct 17 21:53	21° \mathcal{A} 40'34	
morning max el	10997 Oct 12 04:25	5° \mathcal{A} 24'57	25°00'53		10998 Oct 21 23:42	0° \mathcal{M}	
	10997 Oct 29 18:59	0° \mathcal{M}		morning set	10998 Oct 22 20:51	1° \mathcal{M} 52'10	
asc. node	10997 Oct 31 01:03	2° \mathcal{M} 18'34					
morning set	10997 Nov 07 10:29	17° \mathcal{M} 13'30		superior conj	10998 Oct 29 17:28	16° \mathcal{M} 56'03	1°32'50
	10997 Nov 13 06:44	0° \mathcal{X}		minimum elong	10998 Oct 29 15:58	16° \mathcal{M} 47'43	1°33'08
superior conj	10997 Nov 14 06:10	2° \mathcal{X} 09'01	1°38'46	max. Earth dist.	10998 Oct 30 06:23	18° \mathcal{M} 07'52	1.31593 AU
minimum elong	10997 Nov 14 05:36	2° \mathcal{X} 05'51	1°39'17		10998 Nov 04 16:34	0° \mathcal{X}	
max. Earth dist.	10997 Nov 15 22:41	5° \mathcal{X} 50'55	1.32257 AU	evening rise	10998 Nov 05 14:48	1° \mathcal{X} 58'01	
evening rise	10997 Nov 21 11:39	17° \mathcal{X} 37'10		desc. node	10998 Nov 20 11:25	29° \mathcal{X} 36'57	
	10997 Nov 27 19:15	0° \mathcal{Z}			10998 Nov 20 17:12	0° \mathcal{Z}	
desc. node	10997 Dec 03 14:16	10° \mathcal{Z} 14'50		evening max el	10998 Dec 06 18:16	20° \mathcal{Z} 36'36	27°10'21
	10997 Dec 17 01:16	0° \mathcal{A}		retrograde	10998 Dec 20 15:52	27° \mathcal{Z} 48'42	
evening max el	10997 Dec 24 11:47	8° \mathcal{A} 13'26	27°31'11	evening set	10998 Dec 27 14:17	25° \mathcal{Z} 41'21	
retrograde	10998 Jan 07 06:56	15° \mathcal{A} 32'50		min. Earth dist.	10998 Dec 31 08:46	22° \mathcal{Z} 57'49	0.60751 AU
evening set	10998 Jan 14 06:46	13° \mathcal{A} 08'33		inferior conj	10999 Jan 03 11:50	20° \mathcal{Z} 17'55	-3°17'58
min. Earth dist.	10998 Jan 18 00:31	10° \mathcal{A} 03'30	0.62821 AU	minimum elong	10999 Jan 03 18:31	20° \mathcal{Z} 03'38	3°14'59
inferior conj	10998 Jan 20 20:22	7° \mathcal{A} 19'06	-2°01'27	morning rise	10999 Jan 11 01:25	15° \mathcal{Z} 26'49	
minimum elong	10998 Jan 21 00:23	7° \mathcal{A} 09'19	1°59'19	direct	10999 Jan 13 04:45	15° \mathcal{Z} 08'24	
asc. node	10998 Jan 27 00:23	2° \mathcal{A} 28'53		asc. node	10999 Jan 13 21:33	15° \mathcal{Z} 10'26	
morning rise	10998 Jan 27 20:20	2° \mathcal{A} 08'21		morning max el	10999 Jan 20 10:04	18° \mathcal{Z} 45'27	17°57'54
direct	10998 Jan 30 03:30	1° \mathcal{A} 43'43			10999 Jan 28 13:42	0° \mathcal{A}	
morning max el	10998 Feb 05 18:55	5° \mathcal{A} 07'40	17°46'53	morning set	10999 Feb 05 00:36	13° \mathcal{A} 18'32	
morning set	10998 Feb 21 20:15	29° \mathcal{A} 48'01			10999 Feb 14 05:40	0° \mathcal{X}	
	10998 Feb 21 22:59	0° \mathcal{X}		superior conj	10999 Feb 15 06:56	1° \mathcal{X} 51'04	0°09'03
desc. node	10998 Mar 01 14:26	13° \mathcal{X} 14'12		minimum elong	10999 Feb 15 07:43	1° \mathcal{X} 54'31	0°09'17
superior conj	10998 Mar 05 17:38	20° \mathcal{X} 11'38	-0°30'55	behind sun begin	10999 Feb 15 01:05	1° \mathcal{X} 25'28	
minimum elong	10998 Mar 05 14:31	19° \mathcal{X} 58'37	0°30'16	behind sun end	10999 Feb 15 14:21	2° \mathcal{X} 23'30	
	10998 Mar 11 17:33	0° \mathcal{Y}		desc. node	10999 Feb 16 11:11	3° \mathcal{X} 54'13	
max. Earth dist.	10998 Mar 12 06:35	0° \mathcal{Y} 52'22	1.44166 AU	max. Earth dist.	10999 Feb 22 20:19	14° \mathcal{X} 42'49	1.42479 AU
evening rise	10998 Mar 20 17:00	14° \mathcal{Y} 07'42		evening rise	10999 Feb 28 16:33	24° \mathcal{X} 10'35	
	10998 Mar 31 05:17	0° \mathcal{B}			10999 Mar 04 09:43	0° \mathcal{Y}	
evening max el	10998 Apr 19 16:29	25° \mathcal{B} 55'20	21°03'21		10999 Mar 25 05:16	0° \mathcal{B}	
asc. node	10998 Apr 24 22:07	0° Π 02'17		evening max el	10999 Apr 02 10:44	9° \mathcal{B} 40'48	22°19'30
	10998 Apr 24 20:20	0° Π		asc. node	10999 Apr 11 19:22	15° \mathcal{B} 23'13	
retrograde	10998 Apr 28 05:26	0° Π 55'06		retrograde	10999 Apr 12 02:45	15° \mathcal{B} 23'41	
	10998 May 01 08:57	30° \mathcal{R} \mathcal{B}		evening set	10999 Apr 16 19:28	13° \mathcal{B} 27'17	
evening set	10998 May 02 11:18	29° \mathcal{B} 14'00					

inferior conj	10999 Apr 22 02:57	7°♄05'42	2°45'34	retrograde	11000 Mar 26 21:19	29°♃51'10	
minimum elong	10999 Apr 22 01:01	7°♄12'28	2°44'51	asc. node	11000 Mar 29 16:39	29°♃14'03	
min. Earth dist.	10999 Apr 21 23:56	7°♄16'14	0.68685 AU	evening set	11000 Apr 01 01:36	27°♃40'54	
morning rise	10999 Apr 27 06:26	0°♄54'59		inferior conj	11000 Apr 06 11:50	21°♃12'54	2°15'22
	10999 Apr 28 12:05	30°♄♂		minimum elong	11000 Apr 06 09:39	21°♃20'22	2°14'36
direct	10999 May 01 23:35	28°♃55'48		min. Earth dist.	11000 Apr 05 20:37	22°♃05'01	0.68536 AU
	10999 May 05 18:26	0°♄		morning rise	11000 Apr 11 17:43	15°♃08'37	
morning max el	10999 May 11 06:06	4°♄21'02	21°59'40	direct	11000 Apr 15 21:39	13°♃31'03	
desc. node	10999 May 15 12:16	9°♄04'20		morning max el	11000 Apr 24 00:25	18°♃08'30	20°39'29
	10999 May 30 19:13	0°♄		desc. node	11000 May 02 09:04	28°♃12'39	
morning set	10999 Jun 13 02:05	20°♄28'30			11000 May 03 16:34	0°♄	
max. Earth dist.	10999 Jun 18 17:28	29°♄42'20	1.41449 AU	morning set	11000 May 23 10:54	29°♄18'22	
	10999 Jun 18 21:41	0°♄			11000 May 23 21:37	0°♄	
				max. Earth dist.	11000 May 31 23:42	12°♄48'28	1.43401 AU
superior conj	10999 Jun 26 10:36	12°♄56'25	-1°38'53				
minimum elong	10999 Jun 26 17:01	13°♄24'44	1°38'46	superior conj	11000 Jun 07 14:51	23°♄41'53	-2°03'00
	10999 Jul 05 20:11	0°♄		minimum elong	11000 Jun 07 20:29	24°♄05'28	2°03'17
evening rise	10999 Jul 07 01:33	2°♄15'54			11000 Jun 11 08:22	0°♄	
asc. node	10999 Jul 08 18:03	5°♄23'11		evening rise	11000 Jun 19 19:51	14°♄45'12	
evening max el	10999 Jul 23 03:15	27°♄50'43	18°13'36	asc. node	11000 Jun 25 15:01	24°♄54'28	
	10999 Jul 25 18:19	0°♄			11000 Jun 28 15:45	0°♄	
retrograde	10999 Jul 30 06:44	1°♄27'41		evening max el	11000 Jul 06 15:58	10°♄56'26	18°04'06
evening set	10999 Aug 01 12:44	1°♄06'49		retrograde	11000 Jul 13 04:57	14°♄18'38	
	10999 Aug 04 00:01	30°♄♂		evening set	11000 Jul 15 18:53	13°♄46'44	
inferior conj	10999 Aug 08 18:22	26°♄22'50	0°48'23	inferior conj	11000 Jul 22 07:53	8°♄43'20	1°57'00
minimum elong	10999 Aug 08 19:55	26°♄19'28	0°47'26	minimum elong	11000 Jul 22 10:36	8°♄36'33	1°55'42
desc. node	10999 Aug 11 11:11	24°♄02'27		min. Earth dist.	11000 Jul 25 09:47	5°♄40'21	0.61462 AU
min. Earth dist.	10999 Aug 12 02:35	23°♄30'20	0.59189 AU	morning rise	11000 Jul 28 23:50	2°♄41'46	
morning rise	10999 Aug 15 23:47	20°♄44'53		desc. node	11000 Jul 29 08:25	2°♄27'28	
direct	10999 Aug 22 07:54	18°♄54'31		direct	11000 Aug 04 15:39	0°♄24'29	
morning max el	10999 Sep 05 16:43	26°♄42'48	27°33'43	morning max el	11000 Aug 18 21:04	8°♄25'11	27°57'14
	10999 Sep 08 19:37	0°♄			11000 Sep 04 10:43	0°♄	
	10999 Sep 28 22:01	0°♄		morning set	11000 Sep 21 06:21	0°♄28'26	
asc. node	10999 Oct 04 18:42	11°♄21'33			11000 Sep 21 00:49	0°♄	
morning set	10999 Oct 07 04:07	16°♄18'53		asc. node	11000 Sep 21 15:30	1°♄15'40	
	10999 Oct 13 11:04	0°♄		max. Earth dist.	11000 Sep 26 22:51	12°♄34'58	1.31728 AU
max. Earth dist.	10999 Oct 13 15:44	0°♄25'59	1.31413 AU				
				superior conj	11000 Sep 28 15:29	16°♄18'01	1°04'27
superior conj	10999 Oct 14 05:11	1°♄40'49	1°21'19	minimum elong	11000 Sep 28 13:15	16°♄05'42	1°04'12
minimum elong	10999 Oct 14 03:06	1°♄29'13	1°21'19		11000 Oct 04 20:57	0°♄	
evening rise	10999 Oct 20 22:43	16°♄29'44		evening rise	11000 Oct 05 09:20	1°♄06'50	
	10999 Oct 27 13:53	0°♄			11000 Oct 20 22:33	0°♄	
desc. node	10999 Nov 07 08:36	18°♄17'30		desc. node	11000 Oct 25 05:50	6°♄00'29	
	10999 Nov 16 13:46	0°♄		evening max el	11000 Oct 31 08:24	12°♄52'18	24°51'40
evening max el	10999 Nov 18 17:22	2°♄09'15	26°15'25	retrograde	11000 Nov 14 04:02	19°♄48'13	
retrograde	10999 Dec 02 15:33	9°♄14'05		evening set	11000 Nov 19 16:39	18°♄39'49	
evening set	10999 Dec 09 03:03	7°♄32'52		min. Earth dist.	11000 Nov 24 20:07	15°♄55'20	0.56700 AU
min. Earth dist.	10999 Dec 13 06:32	4°♄57'48	0.58628 AU	inferior conj	11000 Nov 27 11:48	14°♄12'25	-5°28'25
inferior conj	10999 Dec 16 09:51	2°♄38'16	-4°31'42	minimum elong	11000 Nov 27 17:47	14°♄02'44	5°27'00
minimum elong	10999 Dec 16 18:00	2°♄23'09	4°28'53	morning rise	11000 Dec 05 21:08	10°♄05'24	
	10999 Dec 20 05:37	30°♄♂		direct	11000 Dec 08 06:54	9°♄49'10	
morning rise	10999 Dec 24 11:36	28°♄09'24		morning max el	11000 Dec 17 18:13	14°♄21'27	19°21'34
direct	10999 Dec 26 15:08	27°♄53'52		asc. node	11000 Dec 18 15:45	15°♄15'29	
asc. node	10999 Dec 31 18:41	29°♄29'00			11000 Dec 28 15:59	0°♄	
	11000 Jan 01 13:17	0°♄		morning set	11001 Jan 03 19:27	11°♄51'13	
morning max el	11000 Jan 03 19:09	1°♄53'41	18°28'51				
morning set	11000 Jan 19 17:42	27°♄23'30		superior conj	11001 Jan 11 21:53	27°♄58'37	1°08'01
	11000 Jan 21 02:13	0°♄		minimum elong	11001 Jan 12 00:53	28°♄13'13	1°08'12
					11001 Jan 12 22:56	0°♄	
superior conj	11000 Jan 28 17:58	14°♄31'18	0°42'30	max. Earth dist.	11001 Jan 18 10:56	10°♄19'20	1.38199 AU
minimum elong	11000 Jan 28 20:40	14°♄43'47	0°42'34	desc. node	11001 Jan 21 04:48	15°♄14'52	
desc. node	11000 Feb 03 07:57	24°♄35'31		evening rise	11001 Jan 22 04:46	17°♄00'13	
max. Earth dist.	11000 Feb 05 04:59	27°♄51'39	1.40409 AU		11001 Jan 29 23:00	0°♄	
	11000 Feb 06 10:54	0°♄			11001 Feb 20 00:52	0°♄	
evening rise	11000 Feb 09 11:56	5°♄07'09		evening max el	11001 Feb 26 15:00	7°♄18'26	24°58'11
	11000 Feb 25 13:46	0°♄		retrograde	11001 Mar 10 11:53	14°♄12'36	
evening max el	11000 Mar 16 01:30	23°♄28'04	23°39'58	evening set	11001 Mar 16 04:10	11°♄50'47	

asc. node	11001 Mar 16 13:55	11° Υ 29'22		asc. node	11002 Mar 03 11:10	22° X 23'23	
min. Earth dist.	11001 Mar 20 15:34	6° Υ 49'56	0.67968 AU	min. Earth dist.	11002 Mar 04 06:28	21° X 25'28	0.66990 AU
inferior conj	11001 Mar 21 18:40	5° Υ 20'43	1°35'45	inferior conj	11002 Mar 05 21:28	19° X 24'40	0°46'41
minimum elong	11001 Mar 21 16:43	5° Υ 27'10	1°35'05	minimum elong	11002 Mar 05 20:19	19° X 28'15	0°46'24
	11001 Mar 26 10:57	30° K		morning rise	11002 Mar 11 15:51	13° X 37'53	
morning rise	11001 Mar 27 05:32	29° X 24'14		direct	11002 Mar 14 20:17	12° X 40'12	
direct	11001 Mar 30 21:06	28° X 07'42		morning max el	11002 Mar 21 11:39	16° X 15'01	18°41'10
	11001 Apr 04 15:24	0° Υ			11002 Mar 31 22:42	0° Υ	
morning max el	11001 Apr 07 02:20	2° Υ 07'28	19°32'26	desc. node	11002 Apr 06 02:35	7° Υ 55'04	
desc. node	11001 Apr 19 05:51	17° Υ 52'24		morning set	11002 Apr 11 23:08	17° Υ 04'02	
greatest brilliancy	11001 Apr 19 19:00	18° Υ 40'42	-0.7m		11002 Apr 20 05:30	0° B	
	11001 Apr 27 07:56	0° B		max. Earth dist.	11002 Apr 27 06:40	11° B 01'03	1.45593 AU
morning set	11001 May 02 10:05	7° B 47'40					
max. Earth dist.	11001 May 14 12:33	26° B 39'04	1.44834 AU	superior conj	11002 Apr 28 05:07	12° B 28'55	-2°03'50
	11001 May 16 15:15	0° II		minimum elong	11002 Apr 27 22:10	12° B 01'40	2°03'51
					11002 May 09 07:48	0° II	
superior conj	11001 May 18 19:00	3° II 26'25	-2°13'10	evening rise	11002 May 13 15:41	6° II 54'15	
minimum elong	11001 May 18 19:22	3° II 27'52	2°13'42	greatest brilliancy	11002 May 20 23:36	18° II 37'17	-0.9m
evening rise	11001 Jun 01 17:40	26° II 19'28			11002 May 28 09:46	0° E	
	11001 Jun 03 22:16	0° E		asc. node	11002 May 30 09:04	2° E 44'58	
asc. node	11001 Jun 12 12:01	14° E 04'08		evening max el	11002 Jun 03 17:56	7° E 57'12	18°40'22
evening max el	11001 Jun 20 05:51	24° E 21'06	18°13'18	retrograde	11002 Jun 10 07:31	11° E 32'16	
retrograde	11001 Jun 26 14:30	27° E 42'55		evening set	11002 Jun 13 13:40	10° E 31'49	
evening set	11001 Jun 29 12:31	26° E 57'28		inferior conj	11002 Jun 19 04:53	4° E 54'13	3°07'20
inferior conj	11001 Jul 05 12:42	21° E 36'14	2°42'00	minimum elong	11002 Jun 19 06:17	4° E 49'55	3°06'33
minimum elong	11001 Jul 05 15:06	21° E 29'30	2°40'55	min. Earth dist.	11002 Jun 21 03:31	2° E 31'20	0.65514 AU
min. Earth dist.	11001 Jul 08 02:11	18° E 44'51	0.63636 AU		11002 Jun 23 09:25	30° K II	
morning rise	11001 Jul 11 16:10	15° E 21'23		morning rise	11002 Jun 24 22:06	28° II 33'43	
desc. node	11001 Jul 16 05:36	13° E 00'54		direct	11002 Jul 01 09:28	25° II 50'30	
direct	11001 Jul 18 08:43	12° E 45'40		desc. node	11002 Jul 03 02:43	26° II 00'43	
morning max el	11001 Aug 01 05:44	20° E 47'56	27°42'55		11002 Jul 10 15:17	0° E	
	11001 Aug 09 04:19	0° Ω		morning max el	11002 Jul 14 16:24	3° E 41'57	26°56'06
	11001 Aug 28 12:59	0° M			11002 Aug 03 13:53	0° Ω	
morning set	11001 Sep 05 01:08	14° M 13'49		morning set	11002 Aug 19 09:39	27° Ω 27'45	
asc. node	11001 Sep 08 12:14	21° M 17'27			11002 Aug 20 17:10	0° M	
max. Earth dist.	11001 Sep 09 23:58	24° M 24'46	1.32556 AU	max. Earth dist.	11002 Aug 23 15:57	5° M 50'42	1.33896 AU
				asc. node	11002 Aug 26 09:00	11° M 22'56	
superior conj	11001 Sep 12 22:22	0° Ω 41'11	0°42'28				
minimum elong	11001 Sep 12 20:31	0° Ω 31'14	0°42'03	superior conj	11002 Aug 27 23:39	14° M 44'17	0°15'45
	11001 Sep 12 14:44	0° Ω		minimum elong	11002 Aug 27 22:51	14° M 40'03	0°15'22
evening rise	11001 Sep 19 20:45	15° Ω 43'14		behind sun begin	11002 Aug 27 21:11	14° M 31'18	
	11001 Sep 26 21:34	0° M		behind sun end	11002 Aug 28 00:31	14° M 48'48	
desc. node	11001 Oct 12 03:07	22° M 23'12		evening rise	11002 Sep 04 07:05	0° Ω 13'40	
evening max el	11001 Oct 12 19:03	23° M 02'41	23°12'10		11002 Sep 04 04:29	0° Ω	
retrograde	11001 Oct 26 03:19	29° M 41'22			11002 Sep 21 10:48	0° M	
evening set	11001 Oct 30 06:40	29° M 04'09		evening max el	11002 Sep 24 09:49	3° M 14'44	21°34'17
min. Earth dist.	11001 Nov 06 04:33	25° M 52'01	0.55272 AU	desc. node	11002 Sep 29 00:24	6° M 57'45	
inferior conj	11001 Nov 07 18:02	24° M 57'38	-5°47'18	retrograde	11002 Oct 06 16:25	9° M 20'47	
minimum elong	11001 Nov 07 16:53	24° M 59'19	5°46'48	evening set	11002 Oct 09 10:45	9° M 03'23	
morning rise	11001 Nov 16 04:48	21° M 06'52		inferior conj	11002 Oct 18 11:28	5° M 07'14	-5°10'25
direct	11001 Nov 19 04:03	20° M 45'50		minimum elong	11002 Oct 18 02:53	5° M 19'14	5°08'26
morning max el	11001 Nov 30 03:58	25° M 58'14	20°37'09	min. Earth dist.	11002 Oct 18 11:23	5° M 07'20	0.54618 AU
	11001 Dec 03 20:06	0° X		morning rise	11002 Oct 26 20:02	1° M 18'39	
asc. node	11001 Dec 05 12:44	2° X 13'10		direct	11002 Oct 30 13:13	0° M 48'43	
morning set	11001 Dec 19 02:45	26° X 31'46		morning max el	11002 Nov 12 00:20	6° M 44'28	22°13'13
	11001 Dec 20 18:59	0° Z		asc. node	11002 Nov 22 09:41	20° M 06'42	
					11002 Nov 27 23:16	0° X	
superior conj	11001 Dec 26 14:06	11° Z 59'09	1°25'40	morning set	11002 Dec 03 13:14	11° X 18'33	
minimum elong	11001 Dec 26 16:27	12° Z 11'04	1°26'03				
max. Earth dist.	11001 Dec 31 18:59	22° Z 19'56	1.36086 AU	superior conj	11002 Dec 10 15:01	26° X 22'46	1°35'57
evening rise	11002 Jan 04 16:28	29° Z 41'14		minimum elong	11002 Dec 10 16:16	26° X 29'21	1°36'31
	11002 Jan 04 20:32	0° \approx			11002 Dec 12 08:22	0° Z	
desc. node	11002 Jan 08 01:41	5° \approx 47'27		max. Earth dist.	11002 Dec 14 09:22	4° Z 13'05	1.34264 AU
	11002 Jan 23 04:06	0° X		evening rise	11002 Dec 18 19:24	13° Z 00'54	
evening max el	11002 Feb 09 04:34	21° X 07'59	26°07'09	desc. node	11002 Dec 25 22:37	26° Z 08'46	
retrograde	11002 Feb 21 21:27	28° X 21'34			11002 Dec 28 04:26	0° \approx	
evening set	11002 Feb 28 01:30	25° X 51'28			11003 Jan 18 04:48	0° X	

evening max el	11003 Jan 22 18:06	4° H 48'03	26°59'26	max. Earth dist.	11003 Nov 27 07:36	16° J 13'19	1.32848 AU
retrograde	11003 Feb 05 01:11	12° H 10'28		evening rise	11003 Dec 02 10:05	26° J 50'42	
evening set	11003 Feb 11 15:40	9° H 36'51			11003 Dec 04 00:04	0° Z	
min. Earth dist.	11003 Feb 15 15:06	5° H 44'49	0.65629 AU	desc. node	11003 Dec 12 19:37	16° Z 13'28	
inferior conj	11003 Feb 17 18:01	3° H 19'21	-0°11'50		11003 Dec 21 12:00	0° \approx	
minimum elong	11003 Feb 17 18:21	3° H 18'25	0°11'23	evening max el	11004 Jan 05 06:32	18° \approx 08'16	27°27'59
transit middle	11003 Feb 17 18:21	3° H 18'25	0°11'23	retrograde	11004 Jan 18 22:38	25° \approx 31'12	
transit begin	11003 Feb 17 16:15	3° H 24'26		evening set	11004 Jan 25 20:27	23° \approx 00'47	
transit end	11003 Feb 17 20:26	3° H 12'25		min. Earth dist.	11004 Jan 29 15:29	19° \approx 40'12	0.63925 AU
asc. node	11003 Feb 18 08:26	2° H 38'19		inferior conj	11004 Feb 01 05:47	16° \approx 59'06	-1°19'14
	11003 Feb 20 20:38	30° R \approx		minimum elong	11004 Feb 01 08:18	16° \approx 52'35	1°17'44
morning rise	11003 Feb 23 22:20	27° \approx 44'35		asc. node	11004 Feb 05 05:41	13° \approx 14'43	
direct	11003 Feb 26 17:02	27° \approx 02'42		morning rise	11004 Feb 07 22:10	11° \approx 39'00	
	11003 Mar 04 16:01	0° H		direct	11004 Feb 10 08:52	11° \approx 09'14	
morning max el	11003 Mar 05 02:25	0° H 24'47	18°06'34	morning max el	11004 Feb 16 19:57	14° \approx 29'41	17°49'02
morning set	11003 Mar 23 15:56	27° H 44'02			11004 Feb 27 18:14	0° H	
desc. node	11003 Mar 23 23:18	28° H 13'56		morning set	11004 Mar 04 12:37	9° H 45'15	
	11003 Mar 25 01:26	0° Y		desc. node	11004 Mar 09 20:00	18° H 44'19	
					11004 Mar 16 15:29	0° Y	
superior conj	11003 Apr 07 12:51	21° Y 32'01	-1°35'22	superior conj	11004 Mar 17 11:54	1° Y 22'53	-0°55'24
minimum elong	11003 Apr 07 03:28	20° Y 55'05	1°34'36	minimum elong	11004 Mar 17 05:58	0° Y 58'48	0°54'31
max. Earth dist.	11003 Apr 10 02:51	25° Y 35'17	1.45605 AU	max. Earth dist.	11004 Mar 22 21:57	10° Y 03'46	1.44881 AU
	11003 Apr 12 22:37	0° B		evening rise	11004 Apr 02 03:43	26° Y 00'25	
evening rise	11003 Apr 23 15:41	16° B 38'17			11004 Apr 04 18:26	0° B	
	11003 May 02 07:41	0° II			11004 Apr 25 12:43	0° II	
greatest brilliancy	11003 May 06 05:14	5° II 54'09	-0.7m	evening max el	11004 Apr 30 04:27	5° II 21'57	20°23'31
asc. node	11003 May 17 06:12	20° II 47'04		asc. node	11004 May 03 03:23	7° II 58'40	
evening max el	11003 May 18 01:54	21° II 38'25	19°24'21	retrograde	11004 May 08 03:32	9° II 58'39	
retrograde	11003 May 25 04:43	25° II 39'16		evening set	11004 May 12 03:31	8° II 26'43	
evening set	11003 May 28 19:24	24° II 23'08		inferior conj	11004 May 17 10:30	2° II 21'16	3°13'14
inferior conj	11003 Jun 03 05:03	18° II 30'44	3°16'48	minimum elong	11004 May 17 09:42	2° II 24'03	3°12'39
minimum elong	11003 Jun 03 05:18	18° II 29'57	3°16'11	min. Earth dist.	11004 May 18 04:03	1° II 21'10	0.68014 AU
min. Earth dist.	11003 Jun 04 12:45	16° II 46'45	0.66990 AU		11004 May 19 04:10	30° R B	
morning rise	11003 Jun 08 14:46	12° II 09'32		morning rise	11004 May 22 15:36	26° B 02'32	
direct	11003 Jun 14 16:42	9° II 29'16		direct	11004 May 28 05:38	23° B 33'45	
desc. node	11003 Jun 19 23:48	11° II 06'27		desc. node	11004 Jun 05 20:48	27° B 49'15	
morning max el	11003 Jun 27 02:58	16° II 55'34	25°45'02		11004 Jun 08 04:47	0° II	
	11003 Jul 07 23:58	0° B		morning max el	11004 Jun 08 12:46	0° II 20'01	24°19'31
	11003 Jul 27 12:33	0° Ω			11004 Jun 30 21:09	0° B	
morning set	11003 Aug 02 04:11	10° Ω 00'30		morning set	11004 Jul 14 04:07	21° B 40'55	
max. Earth dist.	11003 Aug 05 21:39	16° Ω 57'59	1.35707 AU	max. Earth dist.	11004 Jul 17 19:48	28° B 08'11	1.37874 AU
					11004 Jul 18 20:33	0° Ω	
superior conj	11003 Aug 11 16:41	28° Ω 19'55	-0°14'58	superior conj	11004 Jul 24 22:12	11° Ω 20'41	-0°48'09
minimum elong	11003 Aug 11 17:36	28° Ω 24'32	0°15'09	minimum elong	11004 Jul 25 01:25	11° Ω 36'07	0°48'05
behind sun begin	11003 Aug 11 15:29	28° Ω 13'50		asc. node	11004 Jul 30 02:37	21° Ω 28'52	
behind sun end	11003 Aug 11 19:44	28° Ω 35'15		evening rise	11004 Aug 02 15:42	28° Ω 31'22	
asc. node	11003 Aug 12 12:30	0° H			11004 Aug 03 09:37	0° H	
evening rise	11003 Aug 13 05:47	1° H 27'51		evening max el	11004 Aug 19 05:06	25° H 33'52	19°09'01
	11003 Aug 19 14:13	14° H 31'46			11004 Aug 27 02:54	0° B	
	11003 Aug 27 13:27	0° B		retrograde	11004 Aug 28 06:10	0° B 04'07	
evening max el	11003 Sep 06 12:31	14° B 00'34	20°11'21		11004 Aug 29 09:49	30° R H	
desc. node	11003 Sep 15 21:43	19° B 15'04		evening set	11004 Aug 30 02:34	29° H 53'36	
retrograde	11003 Sep 17 05:27	19° B 19'46		desc. node	11004 Sep 01 19:03	29° H 03'55	
evening set	11003 Sep 19 04:48	19° B 09'43		inferior conj	11004 Sep 07 14:07	25° H 41'40	-1°48'29
inferior conj	11003 Sep 28 05:37	15° B 11'19	-3°41'20	minimum elong	11004 Sep 07 09:22	25° H 49'42	1°46'44
minimum elong	11003 Sep 27 20:17	15° B 25'10	3°38'10	min. Earth dist.	11004 Sep 10 08:55	23° H 49'06	0.56074 AU
min. Earth dist.	11003 Sep 29 20:06	14° B 14'12	0.54891 AU	morning rise	11004 Sep 15 13:12	20° H 59'08	
morning rise	11003 Oct 06 10:50	11° B 03'31		direct	11004 Sep 20 21:01	19° H 53'19	
direct	11003 Oct 10 23:04	10° B 19'33		morning max el	11004 Oct 05 00:31	27° H 05'56	25°42'51
morning max el	11003 Oct 24 12:36	16° B 57'16	24°00'32		11004 Oct 07 20:12	0° B	
	11003 Nov 04 00:52	0° M		asc. node	11004 Oct 26 03:27	27° B 50'10	
asc. node	11003 Nov 09 06:35	8° M 42'44			11004 Oct 27 06:11	0° M	
morning set	11003 Nov 18 01:02	26° M 06'16		morning set	11004 Nov 01 12:22	10° M 49'10	
	11003 Nov 19 20:29	0° J					
superior conj	11003 Nov 24 21:47	11° J 01'21	1°39'32	superior conj	11004 Nov 08 08:00	25° M 46'55	1°36'58
minimum elong	11003 Nov 24 21:51	11° J 01'41	1°40'07				

minimum elong	11004 Nov 08 07:00	25° \mathbb{M} 41'22	1°37'24	asc. node	11005 Oct 13 00:15	17° \mathbb{A} 20'51	
max. Earth dist.	11004 Nov 09 12:28	28° \mathbb{M} 24'03	1.31903 AU	morning set	11005 Oct 16 21:37	25° \mathbb{A} 23'03	
	11004 Nov 10 05:55	0° \mathbb{A}			11005 Oct 19 01:05	0° \mathbb{M}	
evening rise	11004 Nov 15 09:25	11° \mathbb{A} 01'59					
	11004 Nov 25 05:48	0° \mathbb{B}		superior conj	11005 Oct 23 19:43	10° \mathbb{M} 33'42	1°28'38
desc. node	11004 Nov 28 16:42	5° \mathbb{B} 53'35		minimum elong	11005 Oct 23 17:55	10° \mathbb{M} 23'42	1°28'48
	11004 Dec 16 16:56	0° \mathbb{A}		max. Earth dist.	11005 Oct 23 21:10	10° \mathbb{M} 41'49	1.31451 AU
evening max el	11004 Dec 17 15:53	0° \mathbb{A} 55'35	27°26'37	evening rise	11005 Oct 30 14:53	25° \mathbb{M} 28'16	
retrograde	11004 Dec 31 12:45	8° \mathbb{A} 13'04			11005 Nov 01 18:46	0° \mathbb{A}	
evening set	11005 Jan 07 12:49	5° \mathbb{A} 54'39		desc. node	11005 Nov 15 13:51	24° \mathbb{A} 59'25	
min. Earth dist.	11005 Jan 11 06:04	3° \mathbb{A} 00'00	0.61951 AU		11005 Nov 18 22:43	0° \mathbb{B}	
inferior conj	11005 Jan 14 05:39	0° \mathbb{A} 15'20	-2°33'40	evening max el	11005 Nov 29 19:38	12° \mathbb{B} 58'26	26°51'13
minimum elong	11005 Jan 14 10:51	0° \mathbb{A} 03'22	2°31'05	retrograde	11005 Dec 13 18:04	20° \mathbb{B} 07'22	
	11005 Jan 14 12:18	30° \mathbb{R} \mathbb{B}		evening set	11005 Dec 20 12:54	18° \mathbb{B} 10'27	
morning rise	11005 Jan 21 11:28	25° \mathbb{B} 12'46		min. Earth dist.	11005 Dec 24 10:00	15° \mathbb{B} 32'05	0.59837 AU
asc. node	11005 Jan 22 02:54	25° \mathbb{B} 02'11		inferior conj	11005 Dec 27 14:07	12° \mathbb{B} 58'56	-3°50'15
direct	11005 Jan 23 16:27	24° \mathbb{B} 51'20		minimum elong	11005 Dec 27 21:41	12° \mathbb{B} 43'40	3°47'11
morning max el	11005 Jan 30 12:58	28° \mathbb{B} 19'58	17°49'14	morning rise	11006 Jan 04 09:12	8° \mathbb{B} 16'46	
	11005 Feb 01 02:14	0° \mathbb{A}		direct	11006 Jan 06 11:56	8° \mathbb{B} 00'01	
morning set	11005 Feb 15 07:13	22° \mathbb{A} 48'24		asc. node	11006 Jan 09 00:03	8° \mathbb{B} 24'38	
	11005 Feb 19 08:06	0° \mathbb{H}		morning max el	11006 Jan 14 01:56	11° \mathbb{B} 45'59	18°08'28
desc. node	11005 Feb 24 16:43	9° \mathbb{H} 21'32			11006 Jan 26 04:31	0° \mathbb{A}	
				morning set	11006 Jan 29 17:35	6° \mathbb{A} 35'11	
superior conj	11005 Feb 26 11:00	12° \mathbb{H} 22'08	-0°13'24				
minimum elong	11005 Feb 26 09:45	12° \mathbb{H} 16'50	0°12'57	superior conj	11006 Feb 08 10:02	24° \mathbb{A} 28'25	0°24'09
behind sun begin	11005 Feb 26 04:35	11° \mathbb{H} 54'53		minimum elong	11006 Feb 08 11:53	24° \mathbb{A} 36'39	0°24'15
behind sun end	11005 Feb 26 14:54	12° \mathbb{H} 38'45		desc. node	11006 Feb 11 13:29	0° \mathbb{H} 02'14	
max. Earth dist.	11005 Mar 05 13:36	24° \mathbb{H} 10'04	1.43509 AU		11006 Feb 11 12:58	0° \mathbb{H}	
	11005 Mar 09 04:50	0° \mathbb{Y}		max. Earth dist.	11006 Feb 16 00:59	7° \mathbb{H} 42'56	1.41639 AU
evening rise	11005 Mar 12 19:06	5° \mathbb{Y} 38'56		evening rise	11006 Feb 21 02:33	16° \mathbb{H} 03'42	
	11005 Mar 29 02:20	0° \mathbb{B}			11006 Mar 02 00:48	0° \mathbb{Y}	
evening max el	11005 Apr 13 01:28	19° \mathbb{B} 06'21	21°34'50		11006 Mar 24 01:18	0° \mathbb{B}	
asc. node	11005 Apr 20 00:39	24° \mathbb{B} 04'20		evening max el	11006 Mar 26 18:08	2° \mathbb{B} 52'50	22°53'35
retrograde	11005 Apr 22 01:51	24° \mathbb{B} 24'44		retrograde	11006 Apr 05 22:02	8° \mathbb{B} 53'02	
evening set	11005 Apr 26 12:07	22° \mathbb{B} 37'15		asc. node	11006 Apr 06 21:54	8° \mathbb{B} 48'17	
inferior conj	11005 May 01 18:51	16° \mathbb{B} 20'54	2°58'35	evening set	11006 Apr 10 19:35	6° \mathbb{B} 50'43	
minimum elong	11005 May 01 17:14	16° \mathbb{B} 26'33	2°57'55	inferior conj	11006 Apr 16 04:04	0° \mathbb{B} 26'11	2°33'55
min. Earth dist.	11005 May 01 23:11	16° \mathbb{B} 05'48	0.68574 AU	minimum elong	11006 Apr 16 01:59	0° \mathbb{B} 33'26	2°33'09
morning rise	11005 May 06 22:08	10° \mathbb{B} 06'43		min. Earth dist.	11006 Apr 15 19:53	0° \mathbb{B} 54'34	0.68683 AU
direct	11005 May 11 23:03	7° \mathbb{B} 55'29			11006 Apr 16 11:38	30° \mathbb{R} \mathbb{Y}	
morning max el	11005 May 21 23:12	13° \mathbb{B} 51'05	22°49'38	morning rise	11006 Apr 21 08:15	24° \mathbb{Y} 18'00	
desc. node	11005 May 23 17:43	15° \mathbb{B} 42'53		direct	11006 Apr 25 19:49	22° \mathbb{Y} 27'43	
	11005 Jun 04 00:02	0° \mathbb{I}		morning max el	11006 May 04 13:40	27° \mathbb{Y} 31'14	21°24'03
	11005 Jun 23 19:14	0° \mathbb{E}			11006 May 06 21:29	0° \mathbb{B}	
morning set	11005 Jun 25 04:24	2° \mathbb{E} 16'02		desc. node	11006 May 10 14:34	4° \mathbb{B} 28'02	
max. Earth dist.	11005 Jun 29 17:00	9° \mathbb{E} 51'48	1.40175 AU		11006 May 28 13:32	0° \mathbb{I}	
				morning set	11006 Jun 05 02:16	11° \mathbb{I} 39'30	
superior conj	11005 Jul 07 12:08	23° \mathbb{E} 37'21	-1°21'19	max. Earth dist.	11006 Jun 11 19:38	22° \mathbb{I} 29'08	1.42337 AU
minimum elong	11005 Jul 07 17:41	24° \mathbb{E} 02'35	1°21'08		11006 Jun 16 07:52	0° \mathbb{E}	
	11005 Jul 10 23:10	0° \mathbb{Q}					
asc. node	11005 Jul 16 23:31	11° \mathbb{Q} 22'15		superior conj	11006 Jun 19 05:52	4° \mathbb{E} 58'37	-1°50'23
evening rise	11005 Jul 17 08:24	12° \mathbb{Q} 04'29		minimum elong	11006 Jun 19 12:24	5° \mathbb{E} 26'49	1°50'24
	11005 Jul 27 08:07	0° \mathbb{M}		evening rise	11006 Jun 30 12:12	25° \mathbb{E} 00'12	
evening max el	11005 Aug 02 08:46	7° \mathbb{M} 51'25	18°28'00		11006 Jul 03 06:27	0° \mathbb{Q}	
retrograde	11005 Aug 10 01:29	11° \mathbb{M} 43'10		asc. node	11006 Jul 03 20:27	1° \mathbb{Q} 02'55	
evening set	11005 Aug 12 03:18	11° \mathbb{M} 27'09		evening max el	11006 Jul 16 19:18	20° \mathbb{Q} 42'14	18°07'13
inferior conj	11005 Aug 19 19:50	6° \mathbb{M} 55'20	-0°02'40	retrograde	11006 Jul 23 15:04	24° \mathbb{Q} 10'48	
minimum elong	11005 Aug 19 19:43	6° \mathbb{M} 55'34	0°02'55	evening set	11006 Jul 26 00:33	23° \mathbb{Q} 45'26	
transit middle	11005 Aug 19 19:43	6° \mathbb{M} 55'34	0°02'55	inferior conj	11006 Aug 01 22:39	18° \mathbb{Q} 52'51	1°20'36
transit begin	11005 Aug 19 16:13	7° \mathbb{M} 02'30		minimum elong	11006 Aug 02 00:57	18° \mathbb{Q} 47'34	1°19'23
transit end	11005 Aug 19 23:14	6° \mathbb{M} 48'36		min. Earth dist.	11006 Aug 05 05:11	15° \mathbb{Q} 53'17	0.60159 AU
desc. node	11005 Aug 19 16:21	7° \mathbb{M} 02'13		desc. node	11006 Aug 06 13:38	14° \mathbb{Q} 45'15	
min. Earth dist.	11005 Aug 23 03:21	4° \mathbb{M} 19'07	0.57941 AU	morning rise	11006 Aug 08 22:23	13° \mathbb{Q} 03'52	
morning rise	11005 Aug 27 08:37	1° \mathbb{M} 36'04		direct	11006 Aug 15 10:45	11° \mathbb{Q} 01'26	
direct	11005 Sep 02 09:39	0° \mathbb{M} 02'15		morning max el	11006 Aug 29 18:20	18° \mathbb{Q} 55'10	27°48'30
morning max el	11005 Sep 16 17:49	7° \mathbb{M} 39'40	27°02'50		11006 Sep 08 03:10	0° \mathbb{M}	
	11005 Oct 03 12:44	0° \mathbb{A}			11006 Sep 26 07:26	0° \mathbb{A}	

asc. node	11006 Sep 29 21:02	7°♄07'36			11007 Sep 02 07:24	0°♄		
morning set	11006 Oct 01 02:56	9°♄42'22		morning set	11007 Sep 15 02:16	23°♄42'01		
max. Earth dist.	11006 Oct 07 06:06	22°♄57'14	1.31491 AU	asc. node	11007 Sep 16 17:48	27°♄05'12		
					11007 Sep 18 03:11	0°♄		
superior conj	11006 Oct 08 07:00	25°♄15'15	1°14'48	max. Earth dist.	11007 Sep 20 11:18	4°♄59'40	1.32026 AU	
minimum elong	11006 Oct 08 04:47	25°♄03'00	1°14'41					
	11006 Oct 10 10:15	0°♄		superior conj	11007 Sep 22 16:03	9°♄46'31	0°55'43	
evening rise	11006 Oct 15 00:10	10°♄02'35		minimum elong	11007 Sep 22 13:54	9°♄34'48	0°55'23	
	11006 Oct 25 02:34	0°♄		evening rise	11007 Sep 29 11:20	24°♄39'36		
desc. node	11006 Nov 02 11:03	13°♄17'04			11007 Oct 01 23:53	0°♄		
evening max el	11006 Nov 11 15:22	24°♄08'49	25°42'44		11007 Oct 19 22:46	0°♄		
	11006 Nov 20 01:41	0°♄		desc. node	11007 Oct 20 08:17	0°♄28'24		
retrograde	11006 Nov 25 12:42	1°♄09'19		evening max el	11007 Oct 24 03:30	4°♄33'07	24°10'03	
	11006 Nov 30 23:27	30°♄		retrograde	11007 Nov 06 19:24	11°♄23'21		
evening set	11006 Dec 01 16:07	29°♄41'46		evening set	11007 Nov 11 19:03	10°♄28'44		
min. Earth dist.	11006 Dec 06 03:47	27°♄05'06	0.57769 AU	min. Earth dist.	11007 Nov 17 14:17	7°♄34'48	0.56014 AU	
inferior conj	11006 Dec 09 03:44	24°♄59'40	-4°58'57	inferior conj	11007 Nov 19 20:47	6°♄11'18	-5°42'23	
minimum elong	11006 Dec 09 11:33	24°♄46'00	4°56'39	minimum elong	11007 Nov 20 00:14	6°♄05'59	5°41'35	
morning rise	11006 Dec 17 09:23	20°♄40'05		morning rise	11007 Nov 28 07:29	2°♄12'45		
direct	11006 Dec 19 14:54	20°♄24'34		direct	11007 Nov 30 22:18	1°♄54'59		
asc. node	11006 Dec 26 21:07	23°♄21'19		morning max el	11007 Dec 11 00:40	6°♄43'01	19°51'08	
morning max el	11006 Dec 28 07:03	24°♄36'59	18°48'34	asc. node	11007 Dec 13 18:10	9°♄39'27		
	11007 Jan 01 19:06	0°♄			11007 Dec 26 02:25	0°♄		
morning set	11007 Jan 13 14:47	20°♄50'46		morning set	11007 Dec 28 19:10	5°♄24'16		
	11007 Jan 18 07:05	0°♄						
superior conj	11007 Jan 22 04:48	7°♄29'44	0°54'19	superior conj	11008 Jan 05 14:24	21°♄12'09	1°16'27	
minimum elong	11007 Jan 22 07:47	7°♄43'52	0°54'24	minimum elong	11008 Jan 05 17:12	21°♄26'04	1°16'43	
desc. node	11007 Jan 29 10:17	20°♄42'48			11008 Jan 10 02:58	0°♄		
max. Earth dist.	11007 Jan 29 08:34	20°♄35'14	1.39472 AU	max. Earth dist.	11008 Jan 11 14:48	2°♄48'46	1.37265 AU	
evening rise	11007 Feb 02 07:09	27°♄24'19		evening rise	11008 Jan 15 08:17	9°♄37'48		
	11007 Feb 03 20:09	0°♄		desc. node	11008 Jan 16 07:06	11°♄19'13		
	11007 Feb 23 14:07	0°♄			11008 Jan 27 13:49	0°♄		
evening max el	11007 Mar 09 08:14	16°♄42'04	24°13'55		11008 Feb 19 08:40	0°♄		
retrograde	11007 Mar 20 14:54	23°♄18'59		evening max el	11008 Feb 19 21:26	0°♄31'42	25°29'07	
asc. node	11007 Mar 24 19:09	21°♄58'40		retrograde	11008 Mar 03 03:27	7°♄35'58		
evening set	11007 Mar 26 00:23	21°♄03'21		evening set	11008 Mar 09 00:56	5°♄09'47		
min. Earth dist.	11007 Mar 30 15:59	15°♄42'40	0.68350 AU	asc. node	11008 Mar 10 16:25	3°♄35'51		
inferior conj	11007 Mar 31 12:18	14°♄34'08	1°59'45	min. Earth dist.	11008 Mar 13 09:21	0°♄24'07	0.67595 AU	
minimum elong	11007 Mar 31 10:09	14°♄41'23	1°58'59		11008 Mar 13 16:54	30°♄		
morning rise	11007 Apr 05 20:00	8°♄33'12		inferior conj	11008 Mar 14 17:37	28°♄40'23	1°16'07	
direct	11007 Apr 09 18:38	7°♄04'42		minimum elong	11008 Mar 14 15:56	28°♄45'50	1°15'34	
morning max el	11007 Apr 17 11:11	11°♄24'07	20°09'13	morning rise	11008 Mar 20 07:24	22°♄48'04		
desc. node	11007 Apr 27 11:23	23°♄51'03		direct	11008 Mar 23 18:02	21°♄40'03		
	11007 May 01 18:15	0°♄		morning max el	11008 Mar 30 16:29	25°♄27'38	19°08'45	
morning set	11007 May 15 04:32	20°♄13'54			11008 Apr 03 16:22	0°♄		
	11007 May 21 11:04	0°♄		greatest brilliancy	11008 Apr 12 18:16	12°♄49'05	-0.7m	
max. Earth dist.	11007 May 25 05:36	5°♄58'53	1.44091 AU	desc. node	11008 Apr 13 08:07	13°♄41'11		
				morning set	11008 Apr 23 06:58	28°♄56'02		
superior conj	11007 May 30 23:47	15°♄17'48	-2°09'25		11008 Apr 23 23:31	0°♄		
minimum elong	11007 May 31 03:46	15°♄34'06	2°09'51	max. Earth dist.	11008 May 06 21:00	20°♄04'52	1.45243 AU	
	11007 Jun 08 18:43	0°♄						
evening rise	11007 Jun 12 22:27	7°♄07'55		superior conj	11008 May 09 18:55	24°♄40'21	-2°11'45	
asc. node	11007 Jun 20 17:25	20°♄25'55		minimum elong	11008 May 09 16:02	24°♄28'57	2°12'10	
	11007 Jun 27 00:04	0°♄			11008 May 13 03:26	0°♄		
evening max el	11007 Jun 30 08:53	3°♄56'57	18°05'40	evening rise	11008 May 24 10:25	18°♄17'15		
retrograde	11007 Jul 06 18:48	7°♄17'23			11008 May 31 13:59	0°♄		
evening set	11007 Jul 09 12:12	6°♄39'54		asc. node	11008 Jun 06 14:25	9°♄24'22		
inferior conj	11007 Jul 15 19:14	1°♄28'21	2°18'46	evening max el	11008 Jun 12 22:15	17°♄26'53	18°22'35	
minimum elong	11007 Jul 15 21:56	1°♄21'13	2°17'31	retrograde	11008 Jun 19 08:07	20°♄53'06		
	11007 Jul 17 04:38	30°♄		evening set	11008 Jun 22 09:26	20°♄01'33		
min. Earth dist.	11007 Jul 18 16:10	28°♄28'08	0.62417 AU	inferior conj	11008 Jun 28 05:23	14°♄33'03	2°54'54	
morning rise	11007 Jul 22 05:39	25°♄19'55		minimum elong	11008 Jun 28 07:24	14°♄27'08	2°53'56	
desc. node	11007 Jul 24 10:51	23°♄58'51		min. Earth dist.	11008 Jun 30 12:39	11°♄51'59	0.64479 AU	
direct	11007 Jul 28 22:26	22°♄53'57		morning rise	11008 Jul 04 04:08	8°♄14'42		
	11007 Aug 11 02:02	0°♄		desc. node	11008 Jul 10 08:01	5°♄35'08		
morning max el	11007 Aug 12 01:02	0°♄56'11	27°55'33	direct	11008 Jul 10 18:58	5°♄34'25		
				morning max el	11008 Jul 24 11:06	13°♄34'30	27°26'29	

	11008 Aug 06 17:01	0°♎			11009 Jul 10 00:49	0°♏		
	11008 Aug 24 22:11	0°♐			11009 Jul 31 07:40	0°♎		
morning set	11008 Aug 28 17:08	7°♐15'26		morning set	11009 Aug 11 20:15	20°♎13'29		
max. Earth dist.	11008 Sep 02 08:54	16°♐39'44	1.33063 AU	max. Earth dist.	11009 Aug 15 20:10	27°♎54'51	1.34610 AU	
asc. node	11008 Sep 02 14:34	17°♐09'07			11009 Aug 16 21:27	0°♐		
				asc. node	11009 Aug 20 11:20	7°♐14'52		
superior conj	11008 Sep 05 20:51	24°♐01'54	0°31'39					
minimum elong	11008 Sep 05 19:22	23°♐53'58	0°31'15	superior conj	11009 Aug 20 19:02	7°♐54'33	0°03'09	
	11008 Sep 08 15:29	0°♑		minimum elong	11009 Aug 20 18:53	7°♐53'44	0°02'50	
evening rise	11008 Sep 12 22:32	9°♑14'05		behind sun begin	11009 Aug 20 13:04	7°♐23'49		
	11008 Sep 23 15:38	0°♒		behind sun end	11009 Aug 21 00:41	8°♐23'42		
evening max el	11008 Oct 04 14:35	14°♒39'24	22°29'19	evening rise	11009 Aug 28 07:48	23°♐39'59		
desc. node	11008 Oct 06 05:33	16°♒09'01			11009 Aug 31 09:50	0°♑		
retrograde	11008 Oct 17 14:15	21°♒07'11		evening max el	11009 Sep 16 09:59	25°♑03'46	20°56'44	
evening set	11008 Oct 21 02:20	20°♒40'11		desc. node	11009 Sep 23 02:53	29°♑48'42		
min. Earth dist.	11008 Oct 28 21:50	17°♒10'58	0.54878 AU		11009 Sep 23 14:09	0°♒		
inferior conj	11008 Oct 29 20:21	16°♒39'05	-5°39'00	retrograde	11009 Sep 28 01:41	0°♒50'39		
minimum elong	11008 Oct 29 15:34	16°♒45'52	5°38'06	evening set	11009 Sep 30 09:34	0°♒37'47		
morning rise	11008 Nov 07 06:23	12°♒51'35			11009 Oct 02 18:44	30°♒♑		
direct	11008 Nov 10 12:39	12°♒27'29		inferior conj	11009 Oct 09 12:20	26°♑42'44	-4°37'43	
morning max el	11008 Nov 22 04:40	17°♒58'33	21°15'59	minimum elong	11009 Oct 09 02:28	26°♑56'42	4°34'57	
asc. node	11008 Nov 29 15:09	27°♒03'02		min. Earth dist.	11009 Oct 10 05:31	26°♑18'20	0.54616 AU	
	11008 Dec 01 12:44	0°♓		morning rise	11009 Oct 17 19:34	22°♑48'09		
morning set	11008 Dec 12 04:04	20°♓08'19		direct	11009 Oct 21 20:50	22°♑12'51		
	11008 Dec 16 20:42	0°♑		morning max el	11009 Nov 03 20:43	28°♑27'47	22°58'15	
					11009 Nov 05 10:01	0°♒		
superior conj	11008 Dec 19 10:46	5°♑24'10	1°30'53	asc. node	11009 Nov 16 12:05	15°♒16'15		
minimum elong	11008 Dec 19 12:40	5°♑34'02	1°31'22		11009 Nov 24 06:45	0°♓		
max. Earth dist.	11008 Dec 24 00:46	14°♑42'23	1.35257 AU	morning set	11009 Nov 26 15:20	4°♓55'56		
evening rise	11008 Dec 28 02:57	22°♑36'45						
	11009 Jan 01 03:41	0°♒		superior conj	11009 Dec 03 14:30	19°♓55'02	1°38'15	
desc. node	11009 Jan 02 04:00	1°♒47'43		minimum elong	11009 Dec 03 15:14	19°♓59'00	1°38'50	
	11009 Jan 20 07:39	0°♔		max. Earth dist.	11009 Dec 06 18:23	26°♓36'48	1.33608 AU	
evening max el	11009 Feb 01 10:55	14°♔17'50	26°31'53		11009 Dec 08 09:40	0°♑		
retrograde	11009 Feb 14 10:51	21°♔37'21		evening rise	11009 Dec 11 11:21	6°♑10'33		
evening set	11009 Feb 20 19:30	19°♔04'56		desc. node	11009 Dec 20 00:58	22°♑02'37		
min. Earth dist.	11009 Feb 24 21:54	14°♔53'31	0.66449 AU		11009 Dec 24 19:15	0°♒		
asc. node	11009 Feb 25 13:41	14°♔06'33		evening max el	11010 Jan 15 00:18	27°♒51'10	27°14'58	
inferior conj	11009 Feb 26 18:03	12°♔41'00	0°23'01		11010 Jan 17 09:26	0°♔		
minimum elong	11009 Feb 26 17:26	12°♔42'50	0°23'00	retrograde	11010 Jan 28 12:06	5°♔14'45		
morning rise	11009 Mar 04 16:22	6°♔59'03		evening set	11010 Feb 04 05:59	2°♔41'51		
direct	11009 Mar 07 16:22	6°♔08'40			11010 Feb 07 05:48	30°♒♒		
morning max el	11009 Mar 14 04:26	9°♔37'01	18°24'23	min. Earth dist.	11010 Feb 08 03:27	29°♒03'18	0.64938 AU	
	11009 Mar 28 18:25	0°♕		inferior conj	11010 Feb 10 11:13	26°♒30'05	-0°39'25	
desc. node	11009 Mar 31 04:51	3°♕51'15		minimum elong	11010 Feb 10 12:23	26°♒26'51	0°38'32	
morning set	11009 Apr 03 06:57	8°♕45'25		asc. node	11010 Feb 12 10:57	24°♒22'50		
	11009 Apr 16 18:14	0°♖		morning rise	11010 Feb 16 20:24	21°♒00'54		
				direct	11010 Feb 19 11:25	20°♒24'38		
superior conj	11009 Apr 19 01:45	3°♖37'07	-1°53'48	morning max el	11010 Feb 25 20:40	23°♒45'04	17°56'56	
minimum elong	11009 Apr 18 16:52	3°♖02'26	1°53'26		11010 Mar 02 23:01	0°♔		
max. Earth dist.	11009 Apr 19 15:43	4°♖31'44	1.45686 AU	morning set	11010 Mar 15 12:09	20°♔01'33		
evening rise	11009 May 04 22:20	28°♖27'38		desc. node	11010 Mar 18 01:34	24°♔15'22		
	11009 May 05 21:48	0°♗			11010 Mar 21 13:34	0°♕		
greatest brilliancy	11009 May 14 17:49	13°♗50'59	-0.8m					
asc. node	11009 May 24 11:31	27°♗50'09		superior conj	11010 Mar 29 14:09	12°♕55'31	-1°19'14	
	11009 May 26 07:48	0°♏		minimum elong	11010 Mar 29 05:45	12°♕22'08	1°18'18	
evening max el	11009 May 27 08:50	1°♏05'49	18°57'07	max. Earth dist.	11010 Apr 02 11:34	19°♕04'36	1.45382 AU	
retrograde	11009 Jun 03 03:13	4°♏50'30			11010 Apr 09 11:40	0°♖		
evening set	11009 Jun 06 12:51	3°♏43'37		evening rise	11010 Apr 14 15:29	7°♖57'28		
	11009 Jun 10 10:31	30°♒♗		greatest brilliancy	11010 Apr 28 22:46	29°♖36'10	-0.6m	
inferior conj	11009 Jun 12 01:21	27°♗59'47	3°13'04		11010 Apr 29 05:16	0°♗		
minimum elong	11009 Jun 12 02:16	27°♗56'53	3°12'22	evening max el	11010 May 10 14:42	14°♗48'56	19°47'55	
min. Earth dist.	11009 Jun 13 17:41	25°♗52'09	0.66196 AU	asc. node	11010 May 11 08:40	15°♗32'46		
morning rise	11009 Jun 17 15:01	21°♗38'20		retrograde	11010 May 18 01:17	19°♗03'38		
direct	11009 Jun 23 22:51	18°♗54'50		evening set	11010 May 21 19:52	17°♗40'46		
desc. node	11009 Jun 27 05:08	19°♗31'49		inferior conj	11010 May 27 04:05	11°♗42'52	3°16'43	
morning max el	11009 Jul 06 21:51	26°♗38'04	26°28'08	minimum elong	11010 May 27 03:51	11°♗43'38	3°16'08	

min. Earth dist.	11010 May 28 05:42	10° Π 17'05	0.67482 AU	morning rise	11011 May 16 14:59	19° \mathcal{B} 20'32	
morning rise	11010 Jun 01 11:30	5° Π 22'37		direct	11011 May 21 23:32	16° \mathcal{B} 58'48	
direct	11010 Jun 07 08:44	2° Π 46'07		desc. node	11011 May 31 23:10	22° \mathcal{B} 38'05	
desc. node	11010 Jun 14 02:12	5° Π 22'32		morning max el	11011 Jun 01 17:35	23° \mathcal{B} 23'41	23°41'25
morning max el	11010 Jun 19 07:51	9° Π 56'36	25°09'51		11011 Jun 07 13:40	0° Π	
	11010 Jul 05 04:47	0° \mathcal{E}			11011 Jun 28 13:41	0° \mathcal{E}	
	11010 Jul 23 22:39	0° \mathcal{Q}		morning set	11011 Jul 06 21:58	13° \mathcal{E} 39'52	
morning set	11010 Jul 25 07:33	2° \mathcal{Q} 26'04		max. Earth dist.	11011 Jul 10 19:20	20° \mathcal{E} 23'10	1.38855 AU
max. Earth dist.	11010 Jul 28 21:57	9° \mathcal{Q} 00'00	1.36598 AU		11011 Jul 16 03:24	0° \mathcal{Q}	
superior conj	11010 Aug 04 07:42	21° \mathcal{Q} 17'26	-0°28'49	superior conj	11011 Jul 18 07:07	4° \mathcal{Q} 00'43	-1°02'24
minimum elong	11010 Aug 04 09:33	21° \mathcal{Q} 26'31	0°28'54	minimum elong	11011 Jul 18 11:22	4° \mathcal{Q} 20'42	1°02'15
asc. node	11010 Aug 07 08:09	27° \mathcal{Q} 19'07		asc. node	11011 Jul 25 04:59	17° \mathcal{Q} 17'26	
	11010 Aug 08 15:59	0° \mathcal{P}		evening rise	11011 Jul 27 11:06	21° \mathcal{Q} 41'28	
evening rise	11010 Aug 12 12:56	7° \mathcal{P} 51'48			11011 Jul 31 18:54	0° \mathcal{P}	
	11010 Aug 24 18:12	0° \mathcal{A}		evening max el	11011 Aug 12 16:33	18° \mathcal{P} 03'05	18°48'56
evening max el	11010 Aug 29 18:53	6° \mathcal{A} 10'24	19°42'11	retrograde	11011 Aug 21 02:35	22° \mathcal{P} 15'33	
retrograde	11010 Sep 08 18:02	11° \mathcal{A} 07'34		evening set	11011 Aug 23 00:45	22° \mathcal{P} 03'11	
desc. node	11010 Sep 10 00:12	11° \mathcal{A} 03'09		desc. node	11011 Aug 27 21:32	19° \mathcal{P} 57'01	
evening set	11010 Sep 10 14:50	10° \mathcal{A} 57'54		inferior conj	11011 Aug 31 04:24	17° \mathcal{P} 42'42	-1°01'29
inferior conj	11010 Sep 19 11:15	6° \mathcal{A} 54'58	-2°54'18	minimum elong	11011 Aug 31 01:50	17° \mathcal{P} 47'21	1°00'38
minimum elong	11010 Sep 19 03:34	7° \mathcal{A} 06'57	2°51'29	min. Earth dist.	11011 Sep 03 06:18	15° \mathcal{P} 29'50	0.56807 AU
min. Earth dist.	11010 Sep 21 15:35	5° \mathcal{A} 33'39	0.55304 AU	morning rise	11011 Sep 07 23:36	12° \mathcal{P} 44'12	
morning rise	11010 Sep 27 14:25	2° \mathcal{A} 33'54		direct	11011 Sep 13 15:06	11° \mathcal{P} 27'20	
direct	11010 Oct 02 11:22	1° \mathcal{A} 41'27		morning max el	11011 Sep 27 21:31	18° \mathcal{P} 50'55	26°20'31
morning max el	11010 Oct 16 07:42	8° \mathcal{A} 34'23	24°45'36		11011 Oct 07 07:09	0° \mathcal{A}	
	11010 Nov 01 02:06	0° \mathcal{M}		asc. node	11011 Oct 21 05:50	23° \mathcal{A} 25'27	
asc. node	11010 Nov 03 09:00	4° \mathcal{M} 07'02			11011 Oct 24 12:03	0° \mathcal{M}	
morning set	11010 Nov 11 03:10	19° \mathcal{M} 42'12		morning set	11011 Oct 26 13:52	4° \mathcal{M} 22'15	
	11010 Nov 15 20:35	0° \mathcal{X}		superior conj	11011 Nov 02 10:06	19° \mathcal{M} 24'05	1°34'06
superior conj	11010 Nov 17 23:00	4° \mathcal{X} 37'11	1°39'10	minimum elong	11011 Nov 02 08:43	19° \mathcal{M} 16'27	1°34'26
minimum elong	11010 Nov 17 22:35	4° \mathcal{X} 34'55	1°39'42	max. Earth dist.	11011 Nov 03 03:03	20° \mathcal{M} 58'13	1.31655 AU
max. Earth dist.	11010 Nov 19 19:55	8° \mathcal{X} 42'25	1.32397 AU		11011 Nov 07 05:50	0° \mathcal{X}	
evening rise	11010 Nov 25 06:06	20° \mathcal{X} 10'31		evening rise	11011 Nov 09 08:21	4° \mathcal{X} 29'05	
	11010 Nov 30 05:41	0° \mathcal{Z}			11011 Nov 22 22:12	0° \mathcal{Z}	
desc. node	11010 Dec 06 21:59	11° \mathcal{Z} 57'45		desc. node	11011 Nov 23 19:06	1° \mathcal{Z} 25'01	
	11010 Dec 18 21:35	0° \mathcal{A}		evening max el	11011 Dec 10 19:11	23° \mathcal{Z} 29'13	27°15'42
evening max el	11010 Dec 28 11:55	10° \mathcal{A} 59'21	27°31'22		11011 Dec 20 14:08	0° \mathcal{A}	
retrograde	11011 Jan 11 06:16	18° \mathcal{A} 19'30		retrograde	11011 Dec 24 16:38	0° \mathcal{A} 42'53	
evening set	11011 Jan 18 05:48	15° \mathcal{A} 53'24			11011 Dec 28 16:12	30° \mathcal{R} \mathcal{Z}	
min. Earth dist.	11011 Jan 21 23:49	12° \mathcal{A} 44'35	0.63116 AU	evening set	11011 Dec 31 15:47	28° \mathcal{Z} 32'14	
inferior conj	11011 Jan 24 18:19	10° \mathcal{A} 00'41	-1°50'11	min. Earth dist.	11012 Jan 04 09:40	25° \mathcal{Z} 46'19	0.61064 AU
minimum elong	11011 Jan 24 21:56	9° \mathcal{A} 51'44	1°48'11	inferior conj	11012 Jan 07 12:06	23° \mathcal{Z} 04'36	-3°06'20
asc. node	11011 Jan 30 08:13	5° \mathcal{A} 24'16		minimum elong	11012 Jan 07 18:25	22° \mathcal{Z} 50'49	3°03'25
morning rise	11011 Jan 31 16:17	4° \mathcal{A} 47'25		morning rise	11012 Jan 14 23:43	18° \mathcal{Z} 10'33	
direct	11011 Feb 03 00:20	4° \mathcal{A} 21'31		direct	11012 Jan 17 03:21	17° \mathcal{Z} 51'28	
morning max el	11011 Feb 09 14:18	7° \mathcal{A} 44'08	17°46'52	asc. node	11012 Jan 17 05:25	17° \mathcal{Z} 51'30	
	11011 Feb 24 08:05	0° \mathcal{H}		morning max el	11012 Jan 24 06:06	21° \mathcal{Z} 25'57	17°55'03
morning set	11011 Feb 25 18:57	2° \mathcal{H} 31'28			11012 Jan 30 18:27	0° \mathcal{A}	
desc. node	11011 Mar 04 22:16	14° \mathcal{H} 48'55		morning set	11012 Feb 08 20:58	15° \mathcal{A} 55'43	
					11012 Feb 16 15:58	0° \mathcal{H}	
superior conj	11011 Mar 09 22:51	23° \mathcal{H} 13'35	-0°37'19	superior conj	11012 Feb 19 08:35	4° \mathcal{H} 43'19	0°03'21
minimum elong	11011 Mar 09 18:59	22° \mathcal{H} 57'39	0°36'37	minimum elong	11012 Feb 19 08:54	4° \mathcal{H} 44'42	0°03'36
	11011 Mar 14 02:22	0° \mathcal{Y}		behind sun begin	11012 Feb 19 00:51	4° \mathcal{H} 09'42	
max. Earth dist.	11011 Mar 16 05:53	3° \mathcal{Y} 26'56	1.44370 AU	behind sun end	11012 Feb 19 16:57	5° \mathcal{H} 19'37	
evening rise	11011 Mar 25 03:00	17° \mathcal{Y} 21'52		desc. node	11012 Feb 19 19:00	5° \mathcal{H} 28'28	
	11011 Apr 02 11:08	0° \mathcal{B}		max. Earth dist.	11012 Feb 26 20:11	17° \mathcal{H} 22'14	1.42760 AU
evening max el	11011 Apr 23 14:52	28° \mathcal{B} 32'47	20°52'41	evening rise	11012 Mar 04 00:08	27° \mathcal{H} 17'53	
	11011 Apr 25 03:25	0° Π			11012 Mar 05 17:27	0° \mathcal{Y}	
asc. node	11011 Apr 28 05:54	2° Π 18'19			11012 Mar 26 05:29	0° \mathcal{B}	
retrograde	11011 May 02 00:02	3° Π 26'24		evening max el	11012 Apr 05 09:43	12° \mathcal{B} 17'38	22°07'42
evening set	11011 May 06 04:23	1° Π 47'34		asc. node	11012 Apr 14 03:09	17° \mathcal{B} 51'30	
	11011 May 08 01:18	30° \mathcal{R} \mathcal{B}		retrograde	11012 Apr 14 21:42	17° \mathcal{B} 54'24	
inferior conj	11011 May 11 10:59	25° \mathcal{B} 37'16	3°08'17	evening set	11012 Apr 19 12:42	16° \mathcal{B} 00'14	
minimum elong	11011 May 11 09:48	25° \mathcal{B} 41'23	3°07'41	inferior conj	11012 Apr 24 19:56	9° \mathcal{B} 39'48	2°49'19
min. Earth dist.	11011 May 11 22:45	24° \mathcal{B} 56'34	0.68307 AU				

minimum elong	11012 Apr 24 18:04	9° ♁ 46'19	2°48'36	min. Earth dist.	11013 Apr 08 15:33	24° ♁ 32'41	0.68590 AU
min. Earth dist.	11012 Apr 24 18:46	9° ♁ 43'51	0.68672 AU	inferior conj	11013 Apr 09 04:56	23° ♁ 46'40	2°20'36
morning rise	11012 Apr 29 23:17	3° ♁ 28'06		minimum elong	11013 Apr 09 02:46	23° ♁ 54'08	2°19'48
direct	11012 May 04 18:24	1° ♁ 25'48		morning rise	11013 Apr 14 10:17	17° ♁ 41'13	
morning max el	11012 May 14 05:29	6° ♁ 59'01	22°12'21	direct	11013 Apr 18 16:10	16° ♁ 00'21	
desc. node	11012 May 17 20:04	10° ♁ 55'50		morning max el	11013 Apr 26 22:40	20° ♁ 44'21	20°50'34
	11012 Jun 01 00:20	0° ♁		desc. node	11013 May 04 16:53	29° ♁ 58'29	
morning set	11012 Jun 16 10:59	23° ♁ 44'17			11013 May 04 17:20	0° ♁	
	11012 Jun 20 06:45	0° ♁			11013 May 25 05:09	0° ♁	
max. Earth dist.	11012 Jun 21 18:27	2° ♁ 28'58	1.41126 AU	morning set	11013 May 26 22:49	2° ♁ 41'47	
				max. Earth dist.	11013 Jun 03 23:28	15° ♁ 26'53	1.43139 AU
superior conj	11012 Jun 29 12:56	15° ♁ 54'26	-1°34'28	superior conj	11013 Jun 10 20:45	26° ♁ 49'27	-2°00'06
minimum elong	11012 Jun 29 19:11	16° ♁ 22'15	1°34'19	minimum elong	11013 Jun 11 02:46	27° ♁ 14'50	2°00'18
	11012 Jul 07 06:26	0° ♁			11013 Jun 12 17:45	0° ♁	
evening rise	11012 Jul 09 22:50	5° ♁ 00'01		evening rise	11013 Jun 22 19:44	17° ♁ 36'30	
asc. node	11012 Jul 11 01:51	7° ♁ 05'56		asc. node	11013 Jun 27 22:48	26° ♁ 39'56	
	11012 Jul 25 09:38	0° ♁			11013 Jun 29 21:19	0° ♁	
evening max el	11012 Jul 25 23:32	0° ♁ 35'32	18°16'43	evening max el	11013 Jul 09 11:49	13° ♁ 38'00	18°04'22
retrograde	11012 Aug 02 06:10	4° ♁ 15'56		retrograde	11013 Jul 16 02:12	17° ♁ 01'18	
evening set	11012 Aug 04 10:58	3° ♁ 56'29		evening set	11013 Jul 18 15:00	16° ♁ 31'11	
	11012 Aug 10 22:15	30° ♁		inferior conj	11013 Jul 25 06:15	11° ♁ 30'39	1°48'13
inferior conj	11012 Aug 11 19:23	29° ♁ 15'44	0°35'45	minimum elong	11013 Jul 25 08:54	11° ♁ 24'09	1°46'53
minimum elong	11012 Aug 11 20:34	29° ♁ 13'12	0°34'56	min. Earth dist.	11013 Jul 28 09:38	8° ♁ 27'47	0.61124 AU
desc. node	11012 Aug 13 18:50	27° ♁ 34'44		desc. node	11013 Jul 31 16:05	5° ♁ 45'56	
min. Earth dist.	11012 Aug 15 03:49	26° ♁ 26'39	0.58856 AU	morning rise	11013 Aug 01 00:11	5° ♁ 32'06	
morning rise	11012 Aug 19 02:44	23° ♁ 42'12		direct	11013 Aug 07 15:24	3° ♁ 18'20	
direct	11012 Aug 25 09:12	21° ♁ 56'00		morning max el	11013 Aug 21 21:26	11° ♁ 17'34	27°56'12
morning max el	11012 Sep 08 18:06	29° ♁ 42'05	27°26'55		11013 Sep 05 13:56	0° ♁	
	11012 Sep 09 01:22	0° ♁			11013 Sep 22 12:54	0° ♁	
	11012 Sep 30 06:34	0° ♁		asc. node	11013 Sep 23 23:20	2° ♁ 56'08	
asc. node	11012 Oct 07 02:36	13° ♁ 03'46		morning set	11013 Sep 24 00:43	3° ♁ 03'19	
morning set	11012 Oct 09 21:39	18° ♁ 50'54		max. Earth dist.	11013 Sep 29 19:54	15° ♁ 27'11	1.31650 AU
	11012 Oct 15 00:56	0° ♁					
superior conj	11012 Oct 16 21:50	4° ♁ 09'32	1°23'25	superior conj	11013 Oct 01 08:26	18° ♁ 48'19	1°07'21
minimum elong	11012 Oct 16 19:49	3° ♁ 58'16	1°23'29	minimum elong	11013 Oct 01 06:11	18° ♁ 35'55	1°07'08
max. Earth dist.	11012 Oct 16 12:14	3° ♁ 16'08	1.31403 AU		11013 Oct 06 10:07	0° ♁	
evening rise	11012 Oct 23 15:38	18° ♁ 59'26		evening rise	11013 Oct 08 01:58	3° ♁ 36'13	
	11012 Oct 29 00:11	0° ♁			11013 Oct 22 00:08	0° ♁	
desc. node	11012 Nov 09 16:16	20° ♁ 12'40		desc. node	11013 Oct 27 13:29	8° ♁ 05'31	
	11012 Nov 16 23:22	0° ♁		evening max el	11013 Nov 03 11:42	15° ♁ 59'30	25°05'33
evening max el	11012 Nov 21 19:28	5° ♁ 09'32	26°25'45	retrograde	11013 Nov 17 08:02	22° ♁ 56'33	
retrograde	11012 Dec 05 17:55	12° ♁ 15'47		evening set	11013 Nov 23 00:48	21° ♁ 43'16	
evening set	11012 Dec 12 07:39	10° ♁ 30'14		min. Earth dist.	11013 Nov 27 23:39	19° ♁ 01'18	0.56966 AU
min. Earth dist.	11012 Dec 16 09:02	7° ♁ 54'50	0.58934 AU	inferior conj	11013 Nov 30 17:51	17° ♁ 12'13	-5°21'45
inferior conj	11012 Dec 19 12:54	5° ♁ 31'09	-4°21'13	minimum elong	11013 Dec 01 00:29	17° ♁ 01'15	5°20'06
minimum elong	11012 Dec 19 20:59	5° ♁ 15'48	4°18'19	morning rise	11013 Dec 09 02:26	13° ♁ 01'53	
morning rise	11012 Dec 27 13:03	0° ♁ 58'52		direct	11013 Dec 11 10:52	12° ♁ 45'57	
direct	11012 Dec 29 16:07	0° ♁ 43'11		morning max el	11013 Dec 20 17:01	17° ♁ 13'00	19°12'15
asc. node	11013 Jan 03 02:33	1° ♁ 55'27		asc. node	11013 Dec 20 23:35	17° ♁ 29'03	
morning max el	11013 Jan 06 16:19	4° ♁ 39'12	18°22'53		11013 Dec 29 23:12	0° ♁	
morning set	11013 Jan 22 12:27	29° ♁ 56'16		morning set	11014 Jan 06 13:06	14° ♁ 20'50	
	11013 Jan 22 13:13	0° ♁			11014 Jan 14 10:55	0° ♁	
superior conj	11013 Jan 31 16:40	17° ♁ 15'13	0°37'53	superior conj	11014 Jan 14 18:18	0° ♁ 35'46	1°04'39
minimum elong	11013 Jan 31 19:12	17° ♁ 26'50	0°37'58	minimum elong	11014 Jan 14 21:20	0° ♁ 50'25	1°04'49
desc. node	11013 Feb 05 15:44	26° ♁ 09'37		max. Earth dist.	11014 Jan 21 11:27	13° ♁ 09'49	1.38529 AU
	11013 Feb 07 20:46	0° ♁		desc. node	11014 Jan 23 12:32	16° ♁ 49'06	
max. Earth dist.	11013 Feb 08 05:18	0° ♁ 36'36	1.40735 AU	evening rise	11014 Jan 25 06:03	19° ♁ 50'45	
evening rise	11013 Feb 12 16:21	8° ♁ 06'09			11014 Jan 31 07:14	0° ♁	
	11013 Feb 26 18:48	0° ♁			11014 Feb 20 22:18	0° ♁	
evening max el	11013 Mar 19 00:53	26° ♁ 04'36	23°27'55	evening max el	11014 Mar 01 14:32	9° ♁ 54'52	24°46'59
	11013 Mar 23 13:53	0° ♁		retrograde	11014 Mar 13 07:52	16° ♁ 44'44	
retrograde	11013 Mar 29 16:43	2° ♁ 22'08		evening set	11014 Mar 18 22:22	14° ♁ 24'31	
asc. node	11013 Apr 01 00:25	1° ♁ 56'36		asc. node	11014 Mar 18 21:41	14° ♁ 25'57	
evening set	11013 Apr 03 19:12	0° ♁ 13'57		min. Earth dist.	11014 Mar 23 10:51	9° ♁ 18'30	0.68081 AU
	11013 Apr 04 01:34	30° ♁		inferior conj	11014 Mar 24 12:10	7° ♁ 54'35	1°42'24

minimum elong	11014 Mar 24 10:09	8° Υ 01'18	1°41'42	evening set	11015 Mar 02 20:37	28° X 27'06	
morning rise	11014 Mar 29 22:08	1° Υ 56'50		asc. node	11015 Mar 05 18:58	25° X 30'25	
direct	11014 Apr 02 15:32	0° Υ 37'10		min. Earth dist.	11015 Mar 07 02:28	23° X 56'05	0.67159 AU
morning max el	11014 Apr 09 23:24	4° Υ 41'34	19°41'27	inferior conj	11015 Mar 08 15:43	21° X 59'33	0°54'46
desc. node	11014 Apr 21 13:39	19° Υ 34'06		minimum elong	11015 Mar 08 14:24	22° X 03'40	0°54'24
greatest brilliancy	11014 Apr 22 17:45	21° Υ 16'27	-0.6m	morning rise	11015 Mar 14 08:49	16° X 11'19	
	11014 Apr 28 14:17	0° Z		direct	11015 Mar 17 14:51	15° X 11'01	
morning set	11014 May 05 22:02	11° Z 10'11		morning max el	11015 Mar 24 07:45	18° X 48'34	18°47'50
max. Earth dist.	11014 May 17 11:45	29° Z 13'03	1.44664 AU		11015 Apr 02 02:24	0° Υ	
	11014 May 17 23:36	0° II		desc. node	11015 Apr 08 10:24	9° Υ 33'53	
				morning set	11015 Apr 15 07:51	20° Υ 16'45	
superior conj	11014 May 22 04:23	6° II 42'41	-2°12'47		11015 Apr 21 13:25	0° Z	
minimum elong	11014 May 22 05:49	6° II 48'28	2°13'20	max. Earth dist.	11015 Apr 30 05:32	13° Z 32'43	1.45528 AU
evening rise	11014 Jun 04 20:54	29° II 19'36					
	11014 Jun 05 06:28	0° S		superior conj	11015 May 01 16:27	15° Z 49'30	-2°06'35
asc. node	11014 Jun 14 19:47	15° S 53'17		minimum elong	11015 May 01 10:26	15° Z 25'55	2°06'43
evening max el	11014 Jun 23 01:44	27° S 00'18	18°10'46		11015 May 10 15:49	0° II	
	11014 Jun 27 10:16	0° Q		evening rise	11015 May 16 22:37	10° II 03'45	
retrograde	11014 Jun 29 10:20	0° Q 21'12		greatest brilliancy	11015 May 22 22:42	19° II 43'46	-0.9m
	11014 Jul 01 10:17	30° R S			11015 May 29 11:51	0° S	
evening set	11014 Jul 02 07:11	29° S 37'49		asc. node	11015 Jun 01 16:52	4° S 39'20	
inferior conj	11014 Jul 08 09:02	24° S 19'01	2°36'33	evening max el	11015 Jun 06 14:15	10° S 35'12	18°35'10
minimum elong	11014 Jul 08 11:32	24° S 12'06	2°35'24	retrograde	11015 Jun 13 02:35	14° S 07'33	
min. Earth dist.	11014 Jul 11 00:31	21° S 24'52	0.63329 AU	evening set	11015 Jun 16 07:28	13° S 09'24	
morning rise	11014 Jul 14 14:14	18° S 05'41		inferior conj	11015 Jun 21 23:47	7° S 34'00	3°04'33
desc. node	11014 Jul 18 13:19	15° S 57'13		minimum elong	11015 Jun 22 01:22	7° S 29'13	3°03'43
direct	11014 Jul 21 07:05	15° S 32'13		min. Earth dist.	11015 Jun 24 00:38	5° S 06'08	0.65261 AU
morning max el	11014 Aug 04 05:38	23° S 34'35	27°47'18	morning rise	11015 Jun 27 18:22	1° S 13'51	
	11014 Aug 09 23:18	0° Q			11015 Jun 29 10:34	30° R II	
	11014 Aug 29 21:57	0° P		direct	11015 Jul 04 06:43	28° II 31'12	
morning set	11014 Sep 07 20:46	16° P 52'23		desc. node	11015 Jul 05 10:29	28° II 35'49	
asc. node	11014 Sep 10 20:04	22° P 56'48			11015 Jul 09 14:01	0° S	
max. Earth dist.	11014 Sep 12 22:11	27° P 20'24	1.32403 AU	morning max el	11015 Jul 17 16:16	6° S 25'08	27°04'47
	11014 Sep 14 04:03	0° Q			11015 Aug 04 19:00	0° Q	
superior conj	11014 Sep 15 15:56	3° Q 13'38	0°46'07	morning set	11015 Aug 22 07:02	0° P 11'25	
minimum elong	11014 Sep 15 13:59	3° Q 03'06	0°45'44		11015 Aug 22 04:40	0° P	
evening rise	11014 Sep 22 13:22	18° Q 12'53		max. Earth dist.	11015 Aug 26 15:46	8° P 50'01	1.33667 AU
	11014 Sep 28 06:49	0° M		asc. node	11015 Aug 28 16:51	13° P 01'49	
desc. node	11014 Oct 14 10:45	24° M 41'51		superior conj	11015 Aug 30 18:13	17° P 19'50	0°20'04
evening max el	11014 Oct 15 22:30	26° M 12'33	23°27'14	minimum elong	11015 Aug 30 17:12	17° P 14'31	0°19'40
	11014 Oct 20 14:24	0° X			11015 Sep 05 16:59	0° Q	
retrograde	11014 Oct 29 09:02	2° X 54'25		evening rise	11015 Sep 06 24:00	2° Q 44'22	
evening set	11014 Nov 02 17:52	2° X 12'57			11015 Sep 22 02:31	0° M	
	11014 Nov 07 18:17	30° R M		evening max el	11015 Sep 27 11:57	6° M 21'26	21°48'06
min. Earth dist.	11014 Nov 09 08:25	29° M 06'06	0.55445 AU	desc. node	11015 Oct 01 08:04	9° M 34'36	
inferior conj	11014 Nov 11 02:44	28° M 04'01	-5°47'47	retrograde	11015 Oct 09 23:24	12° M 33'53	
minimum elong	11014 Nov 11 02:51	28° M 03'50	5°47'17	evening set	11015 Oct 12 22:00	12° M 14'23	
morning rise	11014 Nov 19 13:38	24° M 11'36		inferior conj	11015 Oct 21 21:19	8° M 17'17	-5°19'46
direct	11014 Nov 22 10:36	23° M 51'29		minimum elong	11015 Oct 21 13:32	8° M 28'10	5°18'07
morning max el	11014 Dec 03 04:47	28° M 57'16	20°24'32	min. Earth dist.	11015 Oct 21 15:15	8° M 25'47	0.54653 AU
	11014 Dec 04 06:03	0° X		morning rise	11015 Oct 30 06:19	4° M 29'46	
asc. node	11014 Dec 07 20:35	4° X 16'50		direct	11015 Nov 02 20:34	4° M 01'34	
morning set	11014 Dec 21 19:43	28° X 59'57		morning max el	11015 Nov 15 03:03	9° M 50'50	21°57'59
	11014 Dec 22 07:24	0° Z		asc. node	11015 Nov 24 17:33	22° M 03'02	
superior conj	11014 Dec 29 08:56	14° Z 31'58	1°23'28		11015 Nov 29 08:13	0° X	
minimum elong	11014 Dec 29 11:25	14° Z 44'31	1°23'50	morning set	11015 Dec 06 05:53	13° X 46'32	
max. Earth dist.	11015 Jan 03 19:02	25° Z 13'52	1.36385 AU	superior conj	11015 Dec 13 08:47	28° X 53'11	1°34'50
	11015 Jan 06 07:40	0° \approx		minimum elong	11015 Dec 13 10:12	29° X 00'40	1°35'22
evening rise	11015 Jan 07 15:07	2° \approx 25'00			11015 Dec 13 21:30	0° Z	
desc. node	11015 Jan 10 09:24	7° \approx 22'54		max. Earth dist.	11015 Dec 17 08:15	7° Z 07'04	1.34505 AU
	11015 Jan 24 08:33	0° X		evening rise	11015 Dec 21 16:01	15° Z 39'43	
evening max el	11015 Feb 12 04:03	23° X 45'00	25°57'47	desc. node	11015 Dec 28 06:19	27° Z 46'23	
	11015 Feb 20 15:36	0° Υ			11015 Dec 29 13:07	0° \approx	
retrograde	11015 Feb 24 18:11	0° Υ 56'19			11016 Jan 18 22:15	0° X	
	11015 Feb 28 13:10	30° R X		evening max el	11016 Jan 25 17:34	7° X 27'02	26°52'59

retrograde	11016 Feb 07 22:57	14° H 49'07		evening rise	11016 Dec 04 05:13	29° X 26'09	
evening set	11016 Feb 14 12:03	12° H 15'29			11016 Dec 04 11:59	0° Z	
min. Earth dist.	11016 Feb 18 12:09	8° H 18'38	0.65852 AU	desc. node	11016 Dec 14 03:19	17° Z 54'16	
inferior conj	11016 Feb 20 13:23	5° H 56'07	-0°02'22		11016 Dec 21 15:17	0° \approx	
minimum elong	11016 Feb 20 13:26	5° H 55'58	0°02'02	evening max el	11017 Jan 07 06:15	20° \approx 51'11	27°25'30
transit middle	11016 Feb 20 13:26	5° H 55'58	0°02'02	retrograde	11017 Jan 20 21:30	28° \approx 14'49	
transit begin	11016 Feb 20 10:30	6° H 04'29		evening set	11017 Jan 27 18:24	25° \approx 43'27	
transit end	11016 Feb 20 16:22	5° H 47'27		min. Earth dist.	11017 Jan 31 13:58	22° \approx 18'20	0.64199 AU
asc. node	11016 Feb 20 16:17	5° H 47'43		inferior conj	11017 Feb 03 02:39	19° \approx 38'47	-1°08'30
morning rise	11016 Feb 26 16:05	0° H 19'32		minimum elong	11017 Feb 03 04:47	19° \approx 33'09	1°07'09
	11016 Feb 27 09:29	30° R \approx		asc. node	11017 Feb 06 13:32	16° \approx 17'15	
direct	11016 Feb 29 12:06	29° \approx 35'35		morning rise	11017 Feb 09 17:08	14° \approx 16'17	
	11016 Mar 02 15:19	0° H		direct	11017 Feb 12 04:50	13° \approx 45'00	
morning max el	11016 Mar 06 21:56	2° H 58'54	18°10'40	morning max el	11017 Feb 18 15:15	17° \approx 05'12	17°50'29
desc. node	11016 Mar 25 07:06	29° H 50'36			11017 Feb 28 00:36	0° H	
	11016 Mar 25 09:25	0° Y		morning set	11017 Mar 07 13:02	12° H 33'36	
morning set	11016 Mar 25 20:13	0° Y 43'37		desc. node	11017 Mar 12 03:48	20° H 19'30	
					11017 Mar 18 00:23	0° Y	
superior conj	11016 Apr 09 23:21	24° Y 49'32	-1°40'41	superior conj	11017 Mar 20 19:15	4° Y 31'04	-1°01'46
minimum elong	11016 Apr 09 13:52	24° Y 12'20	1°39'58	minimum elong	11017 Mar 20 12:36	4° Y 04'14	1°00'53
max. Earth dist.	11016 Apr 12 01:26	28° Y 05'44	1.45648 AU	max. Earth dist.	11017 Mar 25 20:32	12° Y 34'52	1.45035 AU
	11016 Apr 13 06:40	0° B		evening rise	11017 Apr 05 14:15	29° Y 16'33	
evening rise	11016 Apr 26 01:28	19° B 54'06			11017 Apr 06 01:36	0° B	
	11016 May 02 13:42	0° II			11017 Apr 26 10:44	0° II	
greatest brilliancy	11016 May 07 22:50	8° II 13'55	-0.7m	evening max el	11017 May 03 02:21	7° II 59'26	20°13'54
asc. node	11016 May 18 14:01	22° II 48'25		asc. node	11017 May 05 11:14	10° II 08'35	
evening max el	11016 May 19 22:57	24° II 16'09	19°16'46	retrograde	11017 May 10 22:05	12° II 30'17	
retrograde	11016 May 26 23:24	28° II 12'37		evening set	11017 May 14 20:36	11° II 00'46	
evening set	11016 May 30 12:44	26° II 58'55		inferior conj	11017 May 20 03:50	4° II 57'16	3°14'29
inferior conj	11016 Jun 04 23:01	21° II 08'37	3°16'11	minimum elong	11017 May 20 03:10	4° II 59'32	3°13'55
minimum elong	11016 Jun 04 23:26	21° II 07'16	3°15'34	min. Earth dist.	11017 May 20 23:28	3° II 50'19	0.67890 AU
min. Earth dist.	11016 Jun 06 08:55	19° II 18'17	0.66798 AU		11017 May 24 00:48	30° R B	
morning rise	11016 Jun 10 09:40	14° II 47'08		morning rise	11017 May 25 09:26	28° B 37'59	
direct	11016 Jun 16 13:09	12° II 05'46		direct	11017 May 31 01:23	26° B 06'54	
desc. node	11016 Jun 21 07:34	13° II 24'38		desc. node	11017 Jun 08 04:35	29° B 54'28	
morning max el	11016 Jun 29 03:03	19° II 37'11	25°56'42		11017 Jun 08 07:15	0° II	
	11016 Jul 07 23:23	0° E		morning max el	11017 Jun 11 12:49	3° II 00'06	24°32'44
	11016 Jul 27 21:17	0° O			11017 Jul 02 02:55	0° E	
morning set	11016 Aug 04 03:59	12° O 51'39		morning set	11017 Jul 17 07:02	24° E 40'59	
max. Earth dist.	11016 Aug 07 22:55	19° O 59'18	1.35409 AU		11017 Jul 20 06:54	0° O	
	11016 Aug 13 00:45	0° P		max. Earth dist.	11017 Jul 20 21:37	1° O 06'34	1.37534 AU
superior conj	11016 Aug 13 12:43	1° P 00'33	-0°10'06	superior conj	11017 Jul 27 20:13	14° O 07'30	-0°43'02
minimum elong	11016 Aug 13 13:20	1° P 03'40	0°10'20	minimum elong	11017 Jul 27 23:03	14° O 21'16	0°43'01
behind sun begin	11016 Aug 13 08:37	0° P 39'45		asc. node	11017 Aug 01 10:29	23° O 09'35	
behind sun end	11016 Aug 13 18:03	1° P 27'37			11017 Aug 04 20:39	0° P	
asc. node	11016 Aug 14 13:40	3° P 07'28		evening rise	11017 Aug 05 10:20	1° P 08'16	
evening rise	11016 Aug 21 07:49	17° P 05'10		evening max el	11017 Aug 22 03:23	28° P 28'23	19°16'57
	11016 Aug 27 20:29	0° A			11017 Aug 23 19:47	0° A	
evening max el	11016 Sep 08 12:42	17° A 01'37	20°22'29	retrograde	11017 Aug 31 09:58	3° A 05'12	
desc. node	11016 Sep 17 05:23	22° A 14'44		evening set	11017 Sep 02 06:08	2° A 55'04	
retrograde	11016 Sep 19 11:48	22° A 28'19		desc. node	11017 Sep 04 02:44	2° A 25'37	
evening set	11016 Sep 21 12:42	22° A 17'51			11017 Sep 08 22:22	30° R P	
inferior conj	11016 Sep 30 14:30	18° A 20'46	-3°57'12	inferior conj	11017 Sep 10 20:14	28° P 45'51	-2°05'45
minimum elong	11016 Sep 30 04:49	18° A 34'56	3°54'03	minimum elong	11017 Sep 10 14:41	28° P 55'02	2°03'40
min. Earth dist.	11016 Oct 01 23:45	17° A 32'05	0.54785 AU	min. Earth dist.	11017 Sep 13 11:51	27° P 01'01	0.55850 AU
morning rise	11016 Oct 08 20:17	14° A 16'55		morning rise	11017 Sep 18 20:29	24° P 09'04	
direct	11016 Oct 13 05:36	13° A 35'26		direct	11017 Sep 24 01:37	23° P 06'49	
morning max el	11016 Oct 26 16:09	20° A 07'46	23°44'27		11017 Oct 07 21:17	0° A	
	11016 Nov 03 24:00	0° M		morning max el	11017 Oct 08 03:32	0° A 14'47	25°28'37
asc. node	11016 Nov 10 14:28	10° M 33'44		asc. node	11017 Oct 28 11:19	29° A 37'03	
morning set	11016 Nov 19 17:38	28° M 34'51			11017 Oct 28 16:08	0° M	
	11016 Nov 20 09:34	0° X		morning set	11017 Nov 04 05:08	13° M 18'43	
superior conj	11016 Nov 26 14:53	13° X 30'35	1°39'24	superior conj	11017 Nov 11 00:43	28° M 15'31	1°37'44
minimum elong	11016 Nov 26 15:07	13° X 31'52	1°39'59	minimum elong	11017 Nov 10 23:52	28° M 10'49	1°38'12
max. Earth dist.	11016 Nov 29 05:17	19° X 05'46	1.33027 AU				

	11017 Nov 11 19:39	0°♊		max. Earth dist.	11018 Oct 26 17:42	13°♌32'27	1.31491 AU
max. Earth dist.	11017 Nov 12 09:17	1°♊14'54	1.32015 AU	evening rise	11018 Nov 02 08:06	27°♌59'11	
evening rise	11017 Nov 18 03:27	13°♊34'50			11018 Nov 03 07:02	0°♊	
	11017 Nov 26 14:28	0°♊		desc. node	11018 Nov 17 21:30	26°♊50'21	
desc. node	11017 Dec 01 00:23	7°♊38'39			11018 Nov 19 23:04	0°♊	
	11017 Dec 17 01:01	0°♊		evening max el	11018 Dec 02 21:06	15°♊54'42	26°58'39
evening max el	11017 Dec 20 16:17	3°♊44'31	27°28'56	retrograde	11018 Dec 16 19:15	23°♊04'32	
retrograde	11018 Jan 03 12:44	11°♊02'48		evening set	11018 Dec 23 15:30	21°♊03'53	
evening set	11018 Jan 10 12:46	8°♊42'14		min. Earth dist.	11018 Dec 27 11:33	18°♊23'59	0.60155 AU
min. Earth dist.	11018 Jan 14 06:08	5°♊44'03	0.62259 AU	inferior conj	11018 Dec 30 15:26	15°♊48'13	-3°38'51
inferior conj	11018 Jan 17 04:29	2°♊59'11	-2°22'04	minimum elong	11018 Dec 30 22:43	15°♊33'13	3°35'48
minimum elong	11018 Jan 17 09:15	2°♊47'58	2°19'39	morning rise	11019 Jan 07 08:38	11°♊02'48	
	11018 Jan 20 14:33	30°♋♊		direct	11019 Jan 09 11:29	10°♊45'31	
morning rise	11018 Jan 24 08:14	27°♊53'38		asc. node	11019 Jan 11 07:53	10°♊59'14	
asc. node	11018 Jan 24 10:44	27°♊51'38		morning max el	11019 Jan 16 22:15	14°♊28'12	18°04'21
direct	11018 Jan 26 13:54	27°♊31'11			11019 Jan 27 13:05	0°♊	
	11018 Feb 01 07:08	0°♊		morning set	11019 Feb 01 13:08	9°♊10'35	
morning max el	11018 Feb 02 08:29	0°♊58'04	17°48'00				
morning set	11018 Feb 18 04:48	25°♊29'06		superior conj	11019 Feb 11 10:15	27°♊16'57	0°18'53
	11018 Feb 20 17:57	0°♋		minimum elong	11019 Feb 11 11:45	27°♊23'38	0°19'02
desc. node	11018 Feb 27 00:30	10°♋♊			11019 Feb 12 23:09	0°♋	
				desc. node	11019 Feb 13 21:13	1°♋36'30	
superior conj	11018 Mar 01 14:35	15°♋19'51	-0°19'34	max. Earth dist.	11019 Feb 19 01:14	10°♋25'50	1.41940 AU
minimum elong	11018 Mar 01 12:41	15°♋11'53	0°19'04	evening rise	11019 Feb 24 08:45	19°♋07'49	
max. Earth dist.	11018 Mar 08 12:52	26°♋45'51	1.43752 AU		11019 Mar 03 07:28	0°♌	
	11018 Mar 10 13:14	0°♌			11019 Mar 24 18:44	0°♌	
evening rise	11018 Mar 16 04:12	8°♌50'51		evening max el	11019 Mar 29 17:21	5°♌30'31	22°41'35
	11018 Mar 30 06:32	0°♌		retrograde	11019 Apr 08 17:02	11°♌24'34	
evening max el	11018 Apr 16 00:11	21°♌44'12	21°23'39	asc. node	11019 Apr 09 05:40	11°♌23'14	
asc. node	11018 Apr 22 08:26	26°♌25'37		evening set	11019 Apr 13 12:54	9°♌24'15	
retrograde	11018 Apr 24 20:29	26°♌55'56		inferior conj	11019 Apr 18 21:01	3°♌00'44	2°38'19
evening set	11018 Apr 29 05:12	25°♌10'42		minimum elong	11019 Apr 18 18:59	3°♌07'50	2°37'33
inferior conj	11018 May 04 11:51	18°♌55'59	3°01'29	min. Earth dist.	11019 Apr 18 14:37	3°♌22'58	0.68697 AU
minimum elong	11018 May 04 10:20	19°♌01'15	3°00'49		11019 Apr 21 02:39	30°♌♌	
min. Earth dist.	11018 May 04 18:07	18°♌34'10	0.68521 AU	morning rise	11019 Apr 24 00:55	26°♌51'42	
morning rise	11018 May 09 15:14	12°♌41'06		direct	11019 Apr 28 14:28	24°♌58'17	
direct	11018 May 14 18:11	10°♌26'55			11019 May 07 08:55	0°♌	
morning max el	11018 May 24 22:54	16°♌30'04	23°02'58	morning max el	11019 May 07 12:35	0°♌09'06	21°36'17
desc. node	11018 May 26 01:31	17°♌39'02		desc. node	11019 May 12 22:22	6°♌17'37	
	11018 Jun 05 01:47	0°♍			11019 May 29 19:41	0°♍	
	11018 Jun 25 03:25	0°♍		morning set	11019 Jun 08 12:45	15°♍00'21	
morning set	11018 Jun 28 11:05	5°♍26'35		max. Earth dist.	11019 Jun 14 20:30	25°♍14'30	1.42038 AU
max. Earth dist.	11018 Jul 02 18:39	12°♍44'25	1.39836 AU		11019 Jun 17 17:00	0°♍	
superior conj	11018 Jul 10 12:45	26°♍31'43	-1°16'27	superior conj	11019 Jun 22 09:42	8°♍01'41	-1°46'29
minimum elong	11018 Jul 10 17:59	26°♍55'45	1°16'15	minimum elong	11019 Jun 22 16:16	8°♍30'13	1°46'26
	11018 Jul 12 09:49	0°♎		evening rise	11019 Jul 03 10:31	27°♍48'10	
asc. node	11018 Jul 19 07:21	13°♎04'38			11019 Jul 04 15:23	0°♎	
evening rise	11018 Jul 20 04:32	14°♎46'06		asc. node	11019 Jul 06 04:14	2°♎47'37	
	11018 Jul 28 11:30	0°♏		evening max el	11019 Jul 19 15:19	23°♎26'15	18°09'03
evening max el	11018 Aug 05 05:37	10°♏40'00	18°32'46	retrograde	11019 Jul 26 13:33	26°♎57'28	
retrograde	11018 Aug 13 02:23	14°♏36'34		evening set	11019 Jul 28 21:49	26°♎33'44	
evening set	11018 Aug 15 03:13	14°♏21'35		inferior conj	11019 Aug 04 22:29	21°♎44'02	1°09'38
desc. node	11018 Aug 22 00:03	10°♏35'56		minimum elong	11019 Aug 05 00:33	21°♎39'21	1°08'29
inferior conj	11018 Aug 22 22:38	9°♏52'42	-0°17'27	min. Earth dist.	11019 Aug 08 05:44	18°♎46'33	0.59818 AU
minimum elong	11018 Aug 22 21:57	9°♏54'01	0°17'27	desc. node	11019 Aug 08 21:21	18°♎13'47	
min. Earth dist.	11018 Aug 26 05:10	7°♏22'01	0.57635 AU	morning rise	11019 Aug 12 00:12	15°♎58'42	
morning rise	11018 Aug 30 13:12	4°♏38'45		direct	11019 Aug 18 11:13	14°♎00'29	
direct	11018 Sep 05 11:59	3°♏09'25		morning max el	11019 Sep 01 19:19	21°♎52'20	27°44'11
morning max el	11018 Sep 19 19:45	10°♏43'11	26°52'53		11019 Sep 08 22:31	0°♏	
	11018 Oct 04 16:48	0°♐			11019 Sep 27 17:42	0°♐	
asc. node	11018 Oct 15 08:08	19°♐04'45		asc. node	11019 Oct 02 04:53	8°♐49'32	
morning set	11018 Oct 19 14:46	27°♐54'07		morning set	11019 Oct 03 20:47	12°♐16'09	
	11018 Oct 20 14:17	0°♑		max. Earth dist.	11019 Oct 10 02:53	25°♐49'18	1.31451 AU
superior conj	11018 Oct 26 12:16	13°♑02'15	1°30'14	superior conj	11019 Oct 10 23:43	27°♑45'02	1°17'14
minimum elong	11018 Oct 26 10:35	12°♑52'49	1°30'28	minimum elong	11019 Oct 10 21:33	27°♑32'57	1°17'11

	11019 Oct 11 23:59	0°♍		superior conj	11020 Sep 24 09:14	12°♊18'25	0°58'56
evening rise	11019 Oct 17 16:56	12°♍32'46		minimum elong	11020 Sep 24 07:03	12°♊06'25	0°58'39
	11019 Oct 26 10:12	0°♌		evening rise	11020 Oct 01 03:57	27°♊09'48	
desc. node	11019 Nov 04 18:42	15°♌16'47			11020 Oct 02 11:50	0°♍	
evening max el	11019 Nov 14 18:01	27°♌13'03	25°54'48		11020 Oct 19 13:55	0°♌	
	11019 Nov 18 00:01	0°♍		desc. node	11020 Oct 21 15:58	2°♌39'58	
retrograde	11019 Nov 28 15:38	4°♍15'04		evening max el	11020 Oct 26 06:59	7°♌43'08	24°24'54
evening set	11019 Dec 04 22:12	2°♍42'33		retrograde	11020 Nov 09 00:26	14°♌35'47	
	11019 Dec 09 10:39	30°♌♌		evening set	11020 Nov 14 04:51	13°♌36'21	
min. Earth dist.	11019 Dec 09 06:38	0°♍06'55	0.58062 AU	min. Earth dist.	11020 Nov 19 18:06	10°♌46'08	0.56239 AU
inferior conj	11019 Dec 12 08:04	27°♌56'15	-4°49'44	inferior conj	11020 Nov 22 04:10	9°♌15'33	-5°38'26
minimum elong	11019 Dec 12 16:05	27°♌41'55	4°47'13	minimum elong	11020 Nov 22 08:38	9°♌08'34	5°37'25
morning rise	11019 Dec 20 12:27	23°♌33'29		morning rise	11020 Nov 30 14:33	5°♌14'16	
direct	11019 Dec 22 17:10	23°♌18'01		direct	11020 Dec 03 03:24	4°♌57'09	
asc. node	11019 Dec 29 04:58	25°♌42'51		morning max el	11020 Dec 13 00:27	9°♌39'33	19°40'21
morning max el	11019 Dec 31 04:51	27°♌25'44	18°41'14	asc. node	11020 Dec 15 02:01	11°♌49'55	
	11020 Jan 02 13:14	0°♍			11020 Dec 26 12:35	0°♍	
morning set	11020 Jan 16 09:00	23°♍23'02		morning set	11020 Dec 30 12:31	7°♍54'32	
	11020 Jan 19 18:34	0°♎					
				superior conj	11021 Jan 07 10:09	23°♍48'55	1°13'35
superior conj	11020 Jan 25 02:26	10°♎11'37	0°50'13	minimum elong	11021 Jan 07 13:02	24°♍03'10	1°13'49
minimum elong	11020 Jan 25 05:21	10°♎25'17	0°50'18		11021 Jan 10 14:29	0°♎	
desc. node	11020 Jan 31 17:59	22°♎17'31		max. Earth dist.	11021 Jan 13 15:09	5°♎42'07	1.37586 AU
max. Earth dist.	11020 Feb 01 09:14	23°♎24'31	1.39802 AU	evening rise	11021 Jan 17 08:27	12°♎26'46	
evening rise	11020 Feb 05 10:09	0°♏20'26		desc. node	11021 Jan 17 14:48	12°♎54'55	
	11020 Feb 05 05:18	0°♏			11021 Jan 27 20:34	0°♏	
	11020 Feb 24 16:42	0°♏			11021 Feb 18 20:27	0°♏	
evening max el	11020 Mar 11 07:38	19°♏19'15	24°02'01	evening max el	11021 Feb 21 20:54	3°♏09'07	25°18'29
retrograde	11020 Mar 22 10:31	25°♏51'33		retrograde	11021 Mar 05 23:54	10°♏10'17	
asc. node	11020 Mar 26 02:57	24°♏48'30		evening set	11021 Mar 11 19:32	7°♏45'32	
evening set	11020 Mar 27 18:13	23°♏37'40		asc. node	11021 Mar 13 00:15	6°♏38'56	
min. Earth dist.	11020 Apr 01 10:57	18°♏11'43	0.68429 AU	min. Earth dist.	11021 Mar 16 04:57	2°♏54'33	0.67735 AU
inferior conj	11020 Apr 02 05:31	17°♏08'45	2°05'35	inferior conj	11021 Mar 17 11:26	1°♏15'41	1°23'22
minimum elong	11020 Apr 02 03:21	17°♏16'08	2°04'47	minimum elong	11021 Mar 17 09:38	1°♏21'31	1°22'46
morning rise	11020 Apr 07 12:32	11°♏06'40			11021 Mar 18 10:59	30°♏♏	
direct	11020 Apr 11 12:59	9°♏35'05		morning rise	11021 Mar 23 00:08	25°♏21'53	
morning max el	11020 Apr 19 08:59	14°♏00'30	20°19'30	direct	11021 Mar 26 12:27	24°♏10'57	
desc. node	11020 Apr 28 19:09	25°♏35'47		morning max el	11021 Apr 02 13:10	28°♏02'39	19°16'42
	11020 May 01 22:04	0°♐			11021 Apr 04 09:28	0°♏	
morning set	11020 May 17 16:57	23°♐39'22		greatest brilliancy	11021 Apr 15 09:39	14°♏59'00	-0.7m
	11020 May 21 18:49	0°♑		desc. node	11021 Apr 15 15:54	15°♏22'20	
max. Earth dist.	11020 May 27 05:11	8°♑36'26	1.43866 AU		11021 Apr 25 06:33	0°♐	
				morning set	11021 Apr 26 17:50	2°♐15'58	
superior conj	11020 Jun 02 07:14	18°♑30'02	-2°07'27	max. Earth dist.	11021 May 09 19:41	22°♐37'17	1.45115 AU
minimum elong	11020 Jun 02 11:54	18°♑49'19	2°07'51				
	11020 Jun 09 03:39	0°♑		superior conj	11021 May 13 05:26	28°♐00'18	-2°12'41
evening rise	11020 Jun 14 23:41	10°♑03'47		minimum elong	11021 May 13 03:43	27°♐53'30	2°13'10
asc. node	11020 Jun 22 01:11	22°♑13'45			11021 May 14 11:33	0°♑	
	11020 Jun 26 22:14	0°♒		evening rise	11021 May 27 15:14	21°♑22'25	
evening max el	11020 Jul 02 04:38	6°♒37'48	18°04'42		11021 Jun 01 20:28	0°♑	
retrograde	11020 Jul 08 15:28	9°♒58'40		asc. node	11021 Jun 08 22:14	11°♑16'52	
evening set	11020 Jul 11 07:37	9°♒23'13		evening max el	11021 Jun 15 18:17	20°♑06'32	18°18'57
inferior conj	11020 Jul 17 16:40	4°♒14'26	2°11'27	retrograde	11021 Jun 22 03:34	23°♑30'57	
minimum elong	11020 Jul 17 19:24	4°♒07'22	2°10'09	evening set	11021 Jun 25 03:42	22°♑41'36	
min. Earth dist.	11020 Jul 20 15:26	1°♒12'47	0.62087 AU	inferior conj	11021 Jul 01 01:04	17°♑15'42	2°50'37
	11020 Jul 21 22:05	30°♒♒		minimum elong	11021 Jul 01 03:14	17°♑09'27	2°49'36
morning rise	11020 Jul 24 04:59	28°♒08'07		min. Earth dist.	11021 Jul 03 10:35	14°♒30'36	0.64191 AU
desc. node	11020 Jul 25 18:36	27°♒08'40		morning rise	11021 Jul 07 01:25	10°♒58'22	
direct	11020 Jul 30 21:29	25°♒45'00		desc. node	11021 Jul 12 15:47	8°♒23'09	
	11020 Aug 09 19:44	0°♒		direct	11021 Jul 13 16:59	8°♒19'24	
morning max el	11020 Aug 14 01:17	3°♒47'04	27°56'56	morning max el	11021 Jul 27 10:59	16°♒20'43	27°32'50
	11020 Sep 02 13:31	0°♓			11021 Aug 07 17:30	0°♒	
morning set	11020 Sep 16 21:10	26°♓19'23			11021 Aug 26 08:13	0°♓	
asc. node	11020 Sep 18 01:38	28°♓45'54		morning set	11021 Aug 31 13:31	9°♓57'31	
	11020 Sep 18 15:52	0°♈		asc. node	11021 Sep 04 22:24	18°♓49'21	
max. Earth dist.	11020 Sep 22 08:49	7°♈54'11	1.31907 AU	max. Earth dist.	11021 Sep 05 07:42	19°♓37'48	1.32874 AU

superior conj	11021 Sep 08 14:52	26° \mathbb{M} 37'00	0°35'38	superior conj	11022 Aug 23 14:13	10° \mathbb{M} 33'32	0°07'46
minimum elong	11021 Sep 08 13:14	26° \mathbb{M} 28'16	0°35'13	minimum elong	11022 Aug 23 13:48	10° \mathbb{M} 31'25	0°07'24
	11021 Sep 10 04:34	0° \mathfrak{L}		behind sun begin	11022 Aug 23 08:36	10° \mathbb{M} 04'29	
evening rise	11021 Sep 15 15:18	11° \mathfrak{L} 45'17		behind sun end	11022 Aug 23 19:00	10° \mathbb{M} 58'23	
	11021 Sep 24 20:43	0° \mathbb{M}		evening rise	11022 Aug 31 00:59	26° \mathbb{M} 12'53	
evening max el	11021 Oct 07 17:45	17° \mathbb{M} 50'12	22°44'12		11022 Sep 01 20:46	0° \mathfrak{L}	
desc. node	11021 Oct 08 13:16	18° \mathbb{M} 36'23		evening max el	11022 Sep 19 11:25	28° \mathfrak{L} 09'38	21°09'28
retrograde	11021 Oct 20 20:51	24° \mathbb{M} 22'09			11022 Sep 21 12:06	0° \mathbb{M}	
evening set	11021 Oct 24 14:07	23° \mathbb{M} 51'54		desc. node	11022 Sep 25 10:37	2° \mathbb{M} 36'10	
min. Earth dist.	11021 Nov 01 01:59	20° \mathbb{M} 28'55	0.54998 AU	retrograde	11022 Oct 01 08:29	4° \mathbb{M} 03'17	
inferior conj	11021 Nov 02 05:54	19° \mathbb{M} 49'07	-5°43'13	evening set	11022 Oct 03 19:41	3° \mathbb{M} 49'04	
minimum elong	11021 Nov 02 02:22	19° \mathbb{M} 54'10	5°42'32	inferior conj	11022 Oct 12 22:04	29° \mathfrak{L} 54'00	-4°50'21
morning rise	11021 Nov 10 16:14	16° \mathbb{M} 00'44		minimum elong	11022 Oct 12 12:29	0° \mathbb{M} 07'29	4°47'50
direct	11021 Nov 13 19:57	15° \mathbb{M} 37'48			11022 Oct 12 17:48	30° \mathbb{R} \mathfrak{L}	
morning max el	11021 Nov 25 06:28	21° \mathbb{M} 02'27	21°02'00	min. Earth dist.	11022 Oct 13 09:20	29° \mathfrak{L} 38'08	0.54598 AU
asc. node	11021 Dec 01 23:01	29° \mathbb{M} 04'31		morning rise	11022 Oct 21 05:46	26° \mathfrak{L} 01'59	
	11021 Dec 02 14:05	0° \mathfrak{X}		direct	11022 Oct 25 04:16	25° \mathfrak{L} 28'37	
morning set	11021 Dec 14 20:54	22° \mathfrak{X} 37'17			11022 Nov 05 03:34	0° \mathbb{M}	
	11021 Dec 18 09:34	0° \mathfrak{Z}		morning max el	11022 Nov 06 23:51	1° \mathbb{M} 36'54	22°42'21
				asc. node	11022 Nov 18 19:57	17° \mathbb{M} 10'51	
superior conj	11021 Dec 22 05:08	7° \mathfrak{Z} 56'55	1°29'09		11022 Nov 25 17:59	0° \mathfrak{X}	
minimum elong	11021 Dec 22 07:12	8° \mathfrak{Z} 07'34	1°29'36	morning set	11022 Nov 29 07:58	7° \mathfrak{X} 24'44	
max. Earth dist.	11021 Dec 27 00:17	17° \mathfrak{Z} 37'10	1.35540 AU				
evening rise	11021 Dec 31 00:45	25° \mathfrak{Z} 19'28		superior conj	11022 Dec 06 07:57	22° \mathfrak{X} 25'20	1°37'33
	11022 Jan 02 13:48	0° \approx		minimum elong	11022 Dec 06 08:52	22° \mathfrak{X} 30'15	1°38'08
desc. node	11022 Jan 04 11:42	3° \approx 24'48		max. Earth dist.	11022 Dec 09 16:47	29° \mathfrak{X} 31'00	1.33827 AU
	11022 Jan 21 08:54	0° \mathfrak{H}			11022 Dec 09 22:23	0° \mathfrak{Z}	
evening max el	11022 Feb 04 10:25	16° \mathfrak{H} 56'26	26°23'40	evening rise	11022 Dec 14 07:19	8° \mathfrak{Z} 48'33	
retrograde	11022 Feb 17 08:06	24° \mathfrak{H} 14'12		desc. node	11022 Dec 22 08:41	23° \mathfrak{Z} 42'15	
evening set	11022 Feb 23 15:07	21° \mathfrak{H} 42'33			11022 Dec 26 02:03	0° \approx	
asc. node	11022 Feb 27 21:33	17° \mathfrak{H} 16'37			11023 Jan 17 10:29	0° \mathfrak{H}	
min. Earth dist.	11022 Feb 27 18:26	17° \mathfrak{H} 25'58	0.66643 AU	evening max el	11023 Jan 17 23:59	0° \mathfrak{H} 32'46	27°10'08
inferior conj	11022 Mar 01 12:45	15° \mathfrak{H} 17'26	0°31'40	retrograde	11023 Jan 31 10:14	7° \mathfrak{H} 55'58	
minimum elong	11022 Mar 01 11:56	15° \mathfrak{H} 19'56	0°31'34	evening set	11023 Feb 07 02:58	5° \mathfrak{H} 22'46	
morning rise	11022 Mar 07 09:38	9° \mathfrak{H} 33'39		min. Earth dist.	11023 Feb 11 01:07	1° \mathfrak{H} 39'32	0.65184 AU
direct	11022 Mar 10 11:08	8° \mathfrak{H} 40'48			11023 Feb 12 12:59	30° \mathbb{R} \approx	
morning max el	11022 Mar 17 00:13	12° \mathfrak{H} 11'14	18°29'54	inferior conj	11023 Feb 13 07:12	29° \approx 08'52	-0°29'22
	11022 Mar 30 00:29	0° \mathbb{Y}		minimum elong	11023 Feb 13 08:03	29° \approx 06'29	0°28'38
desc. node	11022 Apr 02 12:37	5° \mathbb{Y} 29'35		asc. node	11023 Feb 14 18:50	27° \approx 31'24	
morning set	11022 Apr 06 13:46	11° \mathbb{Y} 53'03		morning rise	11023 Feb 19 14:37	23° \approx 37'38	
	11022 Apr 18 02:09	0° \mathfrak{B}		direct	11023 Feb 22 06:56	22° \approx 59'25	
				morning max el	11023 Feb 28 16:00	26° \approx 20'10	17°59'57
superior conj	11022 Apr 22 13:03	6° \mathfrak{B} 58'02	-1°57'46		11023 Mar 03 20:50	0° \mathfrak{H}	
minimum elong	11022 Apr 22 04:43	6° \mathfrak{B} 25'27	1°57'31	morning set	11023 Mar 18 14:42	22° \mathfrak{H} 57'00	
max. Earth dist.	11022 Apr 22 14:12	7° \mathfrak{B} 02'31	1.45668 AU	desc. node	11023 Mar 20 09:18	25° \mathfrak{H} 51'57	
	11022 May 07 05:05	0° \mathbb{I}			11023 Mar 22 21:57	0° \mathbb{Y}	
evening rise	11022 May 08 06:37	1° \mathbb{I} 40'57		superior conj	11023 Apr 01 23:28	16° \mathbb{Y} 10'14	-1°25'10
greatest brilliancy	11022 May 17 06:56	15° \mathbb{I} 54'43	-0.8m	minimum elong	11023 Apr 01 14:37	15° \mathbb{Y} 35'09	1°24'17
asc. node	11022 May 26 19:22	29° \mathbb{I} 48'27		max. Earth dist.	11023 Apr 05 10:20	21° \mathbb{Y} 36'46	1.45475 AU
	11022 May 26 22:59	0° \mathfrak{E}			11023 Apr 10 19:16	0° \mathfrak{B}	
evening max el	11022 May 30 05:29	3° \mathfrak{E} 44'48	18°50'55	evening rise	11023 Apr 18 01:54	11° \mathfrak{B} 15'13	
retrograde	11022 Jun 05 22:01	7° \mathfrak{E} 25'47			11023 Apr 30 09:11	0° \mathbb{I}	
evening set	11022 Jun 09 06:25	6° \mathfrak{E} 21'10		greatest brilliancy	11023 May 01 19:49	2° \mathbb{I} 08'31	-0.7m
inferior conj	11022 Jun 14 19:48	0° \mathfrak{E} 39'33	3°11'15	evening max el	11023 May 13 12:09	17° \mathbb{I} 27'34	19°39'22
minimum elong	11022 Jun 14 20:53	0° \mathfrak{E} 36'08	3°10'32	asc. node	11023 May 13 16:33	17° \mathbb{I} 38'32	
	11022 Jun 15 08:23	30° \mathbb{R} \mathbb{I}		retrograde	11023 May 20 19:49	21° \mathbb{I} 37'06	
min. Earth dist.	11022 Jun 16 14:21	28° \mathbb{I} 26'23	0.65969 AU	evening set	11023 May 24 13:04	20° \mathbb{I} 16'31	
morning rise	11022 Jun 20 10:40	24° \mathbb{I} 18'23		inferior conj	11023 May 29 21:43	14° \mathbb{I} 20'31	3°16'57
direct	11022 Jun 26 19:51	21° \mathbb{I} 34'45		minimum elong	11023 May 29 21:39	14° \mathbb{I} 20'44	3°16'21
desc. node	11022 Jun 29 12:55	22° \mathbb{I} 00'16		min. Earth dist.	11023 May 31 01:25	12° \mathbb{I} 48'21	0.67322 AU
morning max el	11022 Jul 09 21:42	29° \mathbb{I} 21'04	26°38'20	morning rise	11023 Jun 04 05:53	7° \mathbb{I} 59'56	
	11022 Jul 10 12:51	0° \mathfrak{E}		direct	11023 Jun 10 04:49	5° \mathbb{I} 22'01	
	11022 Aug 01 14:25	0° \mathfrak{O}		desc. node	11023 Jun 16 09:56	7° \mathbb{I} 35'36	
morning set	11022 Aug 14 18:36	23° \mathfrak{O} 01'18		morning max el	11023 Jun 22 07:53	12° \mathbb{I} 38'05	25°22'23
	11022 Aug 18 09:13	0° \mathbb{M}			11023 Jul 06 07:29	0° \mathfrak{E}	
max. Earth dist.	11022 Aug 18 20:35	0° \mathbb{M} 56'14	1.34354 AU		11023 Jul 25 08:05	0° \mathfrak{O}	
asc. node	11022 Aug 22 19:11	8° \mathbb{M} 55'06					




































































































































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max. Earth dist.	11023 Jul 31 23:46	12°♎02'09	1.36285 AU		11024 Jul 16 13:58	0°♎	
superior conj	11023 Aug 07 04:28	24°♎01'05	-0°23'49	superior conj	11024 Jul 20 06:05	6°♎50'37	-0°57'20
minimum elong	11023 Aug 07 05:58	24°♎08'32	0°23'56	minimum elong	11024 Jul 20 09:59	7°♎09'02	0°57'12
asc. node	11023 Aug 09 16:00	28°♎59'46		asc. node	11024 Jul 26 12:51	18°♎59'19	
	11023 Aug 10 03:53	0°♎		evening rise	11024 Jul 29 06:16	24°♎20'34	
evening rise	11023 Aug 15 06:52	10°♎27'09			11024 Aug 01 04:04	0°♎	
	11023 Aug 25 18:01	0°♎		evening max el	11024 Aug 14 14:04	20°♎54'57	18°55'31
evening max el	11023 Sep 01 18:07	9°♎08'42	19°51'52	retrograde	11024 Aug 23 05:14	25°♎13'31	
retrograde	11023 Sep 11 23:23	14°♎13'31		evening set	11024 Aug 25 02:36	25°♎01'54	
desc. node	11023 Sep 12 07:56	14°♎13'09		desc. node	11024 Aug 29 05:14	23°♎26'08	
evening set	11023 Sep 13 20:50	14°♎03'49		inferior conj	11024 Sep 02 09:06	20°♎44'28	-1°17'59
inferior conj	11023 Sep 22 19:02	10°♎02'36	-3°11'20	minimum elong	11024 Sep 02 05:46	20°♎50'20	1°16'49
minimum elong	11023 Sep 22 10:40	10°♎15'23	3°08'20	min. Earth dist.	11024 Sep 05 08:47	18°♎38'28	0.56536 AU
min. Earth dist.	11023 Sep 24 18:45	8°♎49'42	0.55145 AU	morning rise	11024 Sep 10 05:43	15°♎51'31	
morning rise	11023 Sep 30 22:59	5°♎46'31		direct	11024 Sep 15 18:33	14°♎38'39	
direct	11023 Oct 05 16:55	4°♎57'12		morning max el	11024 Sep 30 00:12	21°♎58'40	26°07'53
morning max el	11023 Oct 19 11:05	11°♎44'48	24°30'05		11024 Oct 07 02:02	0°♎	
	11023 Nov 02 07:29	0°♎		asc. node	11024 Oct 22 13:38	25°♎11'15	
asc. node	11023 Nov 05 16:49	5°♎56'23			11024 Oct 24 23:39	0°♎	
morning set	11023 Nov 13 19:48	22°♎11'31		morning set	11024 Oct 28 06:45	6°♎53'02	
	11023 Nov 17 10:09	0°♎					
superior conj	11023 Nov 20 15:52	7°♎06'14	1°39'25	superior conj	11024 Nov 04 02:41	21°♎53'07	1°35'14
minimum elong	11023 Nov 20 15:37	7°♎04'53	1°39'58	minimum elong	11024 Nov 04 01:26	21°♎46'12	1°35'37
max. Earth dist.	11023 Nov 22 17:16	11°♎34'57	1.32543 AU	max. Earth dist.	11024 Nov 04 23:40	23°♎49'25	1.31732 AU
evening rise	11023 Nov 28 00:41	22°♎44'58			11024 Nov 07 19:08	0°♎	
	11023 Dec 01 16:27	0°♎		evening rise	11024 Nov 11 01:58	7°♎01'22	
desc. node	11023 Dec 09 05:43	13°♎41'00			11024 Nov 23 04:14	0°♎	
	11023 Dec 19 20:09	0°♎		desc. node	11024 Nov 25 02:48	3°♎13'14	
evening max el	11023 Dec 31 11:54	13°♎45'18	27°30'52	evening max el	11024 Dec 12 19:52	26°♎21'15	27°20'11
retrograde	11024 Jan 14 05:27	21°♎06'26			11024 Dec 17 05:03	0°♎	
evening set	11024 Jan 21 04:34	18°♎38'36		retrograde	11024 Dec 26 17:10	3°♎36'27	
min. Earth dist.	11024 Jan 24 22:51	15°♎25'54	0.63403 AU	evening set	11025 Jan 02 16:49	1°♎22'50	
inferior conj	11024 Jan 27 15:58	12°♎42'41	-1°38'58		11025 Jan 04 16:08	30°♎	
minimum elong	11024 Jan 27 19:11	12°♎34'37	1°37'09	min. Earth dist.	11025 Jan 06 10:19	28°♎34'07	0.61377 AU
asc. node	11024 Feb 01 16:03	8°♎22'45		inferior conj	11025 Jan 09 11:54	25°♎50'57	-2°54'38
morning rise	11024 Feb 03 11:57	7°♎27'00		minimum elong	11025 Jan 09 17:50	25°♎37'47	2°51'51
direct	11024 Feb 05 20:54	6°♎59'48		morning rise	11025 Jan 16 21:31	20°♎53'58	
morning max el	11024 Feb 12 09:39	10°♎21'21	17°47'16	asc. node	11025 Jan 18 13:11	20°♎35'18	
	11024 Feb 25 16:26	0°♎		direct	11025 Jan 19 01:33	20°♎34'10	
morning set	11024 Feb 28 18:04	5°♎17'07		morning max el	11025 Jan 26 01:57	24°♎06'21	17°52'38
desc. node	11024 Mar 06 05:59	16°♎24'19			11025 Jan 30 20:12	0°♎	
				morning set	11025 Feb 10 17:36	18°♎34'10	
superior conj	11024 Mar 12 04:38	26°♎18'16	-0°43'46		11025 Feb 17 02:06	0°♎	
minimum elong	11024 Mar 12 00:02	25°♎59'24	0°42'59	superior conj	11025 Feb 21 10:42	7°♎37'27	-0°02'34
	11024 Mar 14 11:01	0°♎		minimum elong	11025 Feb 21 10:30	7°♎36'36	0°02'14
max. Earth dist.	11024 Mar 18 05:05	6°♎01'50	1.44562 AU	behind sun begin	11025 Feb 21 02:11	7°♎00'42	
evening rise	11024 Mar 27 13:14	20°♎37'43		behind sun end	11025 Feb 21 18:49	8°♎12'26	
	11024 Apr 02 17:10	0°♎		desc. node	11025 Feb 21 02:43	7°♎03'03	
	11024 Apr 24 10:04	0°♎		max. Earth dist.	11025 Feb 28 19:43	20°♎00'30	1.43033 AU
evening max el	11024 Apr 25 13:06	1°♎10'55	20°42'14	evening rise	11025 Mar 07 08:06	0°♎26'51	
asc. node	11024 Apr 29 13:45	4°♎33'28			11025 Mar 07 01:16	0°♎	
retrograde	11024 May 03 18:37	5°♎58'32			11025 Mar 27 06:58	0°♎	
evening set	11024 May 07 21:27	4°♎22'02		evening max el	11025 Apr 08 08:35	14°♎55'04	21°56'03
	11024 May 11 20:48	30°♎		asc. node	11025 Apr 16 10:58	20°♎18'12	
inferior conj	11024 May 13 04:07	28°♎13'19	3°10'16	retrograde	11025 Apr 17 16:32	20°♎25'34	
minimum elong	11024 May 13 03:04	28°♎16'58	3°09'40	evening set	11025 Apr 22 05:51	18°♎33'42	
min. Earth dist.	11024 May 13 17:52	27°♎25'55	0.68214 AU	inferior conj	11025 Apr 27 12:51	12°♎14'36	2°52'51
morning rise	11024 May 18 08:27	21°♎55'51		minimum elong	11025 Apr 27 11:04	12°♎20'49	2°52'09
direct	11024 May 23 18:54	19°♎31'38		min. Earth dist.	11025 Apr 27 13:37	12°♎11'57	0.68647 AU
desc. node	11024 Jun 02 06:53	24°♎39'38		morning rise	11025 May 02 16:08	6°♎01'55	
morning max el	11024 Jun 03 17:38	26°♎04'12	23°54'48	direct	11025 May 07 13:15	3°♎56'27	
	11024 Jun 07 08:09	0°♎		morning max el	11025 May 17 04:55	9°♎37'37	22°25'14
	11024 Jun 28 20:34	0°♎		desc. node	11025 May 20 03:47	12°♎48'49	
morning set	11024 Jul 09 02:22	16°♎44'30			11025 Jun 02 04:34	0°♎	

morning set	11025 Jun 19 19:19	26° Π 59'19		desc. node	11026 May 07 00:38	1° \mathcal{B} 45'39	
	11025 Jun 21 15:26	0° \mathfrak{D}			11026 May 26 12:16	0° Π	
max. Earth dist.	11025 Jun 24 19:27	5° \mathfrak{D} 17'04	1.40794 AU	morning set	11026 May 30 10:31	6° Π 05'28	
				max. Earth dist.	11026 Jun 06 23:37	18° Π 07'58	1.42869 AU
superior conj	11025 Jul 02 14:47	18° \mathfrak{D} 52'03	-1°29'55	superior conj	11026 Jun 14 02:10	29° Π 56'32	-1°56'53
minimum elong	11025 Jul 02 20:49	19° \mathfrak{D} 19'08	1°29'44	minimum elong	11026 Jun 14 08:28	0° \mathfrak{D} 23'16	1°57'02
	11025 Jul 08 16:45	0° Ω			11026 Jun 14 02:59	0° \mathfrak{D}	
evening rise	11025 Jul 12 19:46	7° Ω 43'58		evening rise	11026 Jun 25 19:12	20° \mathfrak{D} 27'21	
asc. node	11025 Jul 13 09:43	8° Ω 49'25		asc. node	11026 Jun 30 06:39	28° \mathfrak{D} 25'50	
	11025 Jul 25 21:54	0° \mathfrak{M}			11026 Jul 01 04:08	0° Ω	
evening max el	11025 Jul 28 19:56	3° \mathfrak{M} 22'05	18°20'18	evening max el	11026 Jul 12 07:43	16° Ω 20'39	18°05'00
retrograde	11025 Aug 05 05:56	7° \mathfrak{M} 06'12		retrograde	11026 Jul 18 23:43	19° Ω 45'23	
evening set	11025 Aug 07 09:37	6° \mathfrak{M} 48'04		evening set	11026 Jul 21 11:24	19° Ω 16'58	
inferior conj	11025 Aug 14 20:51	2° \mathfrak{M} 10'30	0°22'32	inferior conj	11026 Jul 28 04:59	14° Ω 19'14	1°38'49
minimum elong	11025 Aug 14 21:37	2° \mathfrak{M} 08'54	0°21'53	minimum elong	11026 Jul 28 07:33	14° Ω 13'05	1°37'31
desc. node	11025 Aug 16 02:32	1° \mathfrak{M} 08'43		min. Earth dist.	11026 Jul 31 09:38	11° Ω 17'03	0.60787 AU
	11025 Aug 17 11:55	30° \mathfrak{R} Ω		desc. node	11026 Aug 02 23:49	9° Ω 07'39	
min. Earth dist.	11025 Aug 18 05:15	29° Ω 25'26	0.58526 AU	morning rise	11026 Aug 04 00:57	8° Ω 23'52	
morning rise	11025 Aug 22 06:07	26° Ω 41'47		direct	11026 Aug 10 15:22	6° Ω 13'54	
direct	11025 Aug 28 10:48	24° Ω 59'49		morning max el	11026 Aug 24 21:56	14° Ω 11'18	27°54'18
	11025 Sep 08 19:00	0° \mathfrak{M}			11026 Sep 06 15:29	0° \mathfrak{M}	
morning max el	11025 Sep 11 19:36	2° \mathfrak{M} 43'15	27°19'16		11026 Sep 24 00:33	0° \mathfrak{A}	
	11025 Oct 01 13:57	0° \mathfrak{A}		asc. node	11026 Sep 26 07:12	4° \mathfrak{A} 37'12	
asc. node	11025 Oct 09 10:24	14° \mathfrak{A} 46'53		morning set	11026 Sep 26 18:57	5° \mathfrak{A} 38'01	
morning set	11025 Oct 12 15:04	21° \mathfrak{A} 23'27		max. Earth dist.	11026 Oct 02 16:51	18° \mathfrak{A} 19'27	1.31583 AU
	11025 Oct 16 14:31	0° \mathfrak{M}					
superior conj	11025 Oct 19 14:26	6° \mathfrak{M} 39'03	1°25'24	superior conj	11026 Oct 04 01:19	21° \mathfrak{A} 18'38	1°10'08
minimum elong	11025 Oct 19 12:29	6° \mathfrak{M} 28'12	1°25'31	minimum elong	11026 Oct 03 23:04	21° \mathfrak{A} 06'14	1°09'58
max. Earth dist.	11025 Oct 19 08:42	6° \mathfrak{M} 07'07	1.31409 AU		11026 Oct 07 23:29	0° \mathfrak{M}	
evening rise	11025 Oct 26 08:38	21° \mathfrak{M} 30'14		evening rise	11026 Oct 10 18:38	6° \mathfrak{M} 06'00	
	11025 Oct 30 11:01	0° \mathfrak{A}			11026 Oct 23 03:52	0° \mathfrak{A}	
desc. node	11025 Nov 11 23:58	22° \mathfrak{A} 07'32		desc. node	11026 Oct 29 21:11	10° \mathfrak{A} 09'24	
	11025 Nov 17 14:42	0° \mathfrak{B}		evening max el	11026 Nov 06 14:53	19° \mathfrak{A} 06'22	25°19'02
evening max el	11025 Nov 24 21:23	8° \mathfrak{B} 09'22	26°35'18	retrograde	11026 Nov 20 11:40	26° \mathfrak{A} 04'31	
retrograde	11025 Dec 08 19:59	15° \mathfrak{B} 16'40		evening set	11026 Nov 26 08:24	24° \mathfrak{A} 46'14	
evening set	11025 Dec 15 11:38	13° \mathfrak{B} 27'00		min. Earth dist.	11026 Dec 01 03:02	22° \mathfrak{A} 06'29	0.57241 AU
min. Earth dist.	11025 Dec 19 11:17	10° \mathfrak{B} 50'49	0.59248 AU	inferior conj	11026 Dec 03 23:29	20° \mathfrak{A} 11'29	-5°14'21
inferior conj	11025 Dec 22 15:26	8° \mathfrak{B} 23'28	-4°10'27	minimum elong	11026 Dec 04 06:38	19° \mathfrak{A} 59'25	5°12'25
minimum elong	11025 Dec 22 23:23	8° \mathfrak{B} 08'01	4°07'27	morning rise	11026 Dec 12 07:10	15° \mathfrak{A} 57'51	
morning rise	11025 Dec 30 13:54	3° \mathfrak{B} 47'40		direct	11026 Dec 14 14:25	15° \mathfrak{A} 42'09	
direct	11026 Jan 01 16:40	3° \mathfrak{B} 31'42		asc. node	11026 Dec 23 07:23	19° \mathfrak{A} 44'42	
asc. node	11026 Jan 05 10:18	4° \mathfrak{B} 24'10		morning max el	11026 Dec 23 15:31	20° \mathfrak{A} 03'56	19°03'27
morning max el	11026 Jan 09 13:12	7° \mathfrak{B} 24'09	18°17'24		11026 Dec 31 04:16	0° \mathfrak{B}	
	11026 Jan 23 23:40	0° \approx		morning set	11027 Jan 09 06:52	16° \mathfrak{B} 51'26	
morning set	11026 Jan 25 07:22	2° \approx 29'59			11027 Jan 15 22:47	0° \approx	
superior conj	11026 Feb 03 15:42	20° \approx 00'31	0°33'08	superior conj	11027 Jan 17 15:01	3° \approx 14'17	1°01'07
minimum elong	11026 Feb 03 18:01	20° \approx 11'04	0°33'12	minimum elong	11027 Jan 17 18:03	3° \approx 28'52	1°01'14
desc. node	11026 Feb 07 23:29	27° \approx 44'05		max. Earth dist.	11027 Jan 24 12:07	16° \approx 00'43	1.38861 AU
	11026 Feb 09 06:41	0° \mathfrak{H}		desc. node	11027 Jan 25 20:17	18° \approx 23'46	
max. Earth dist.	11026 Feb 11 05:28	3° \mathfrak{H} 20'53	1.41055 AU	evening rise	11027 Jan 28 07:45	22° \approx 42'58	
evening rise	11026 Feb 15 21:12	11° \mathfrak{H} 06'48			11027 Feb 01 15:42	0° \mathfrak{H}	
	11026 Feb 28 00:17	0° \mathfrak{Y}			11027 Feb 21 21:34	0° \mathfrak{Y}	
evening max el	11026 Mar 22 00:16	28° \mathfrak{Y} 42'06	23°15'55	evening max el	11027 Mar 04 14:06	12° \mathfrak{Y} 32'04	24°35'35
	11026 Mar 23 08:36	0° \mathfrak{B}		retrograde	11027 Mar 16 03:46	19° \mathfrak{Y} 17'29	
retrograde	11026 Apr 01 12:01	4° \mathfrak{B} 53'43		asc. node	11027 Mar 21 05:29	17° \mathfrak{Y} 21'21	
asc. node	11026 Apr 03 08:12	4° \mathfrak{B} 37'35		evening set	11027 Mar 21 16:31	16° \mathfrak{Y} 58'50	
evening set	11026 Apr 06 12:43	2° \mathfrak{B} 47'37		min. Earth dist.	11027 Mar 26 06:05	11° \mathfrak{Y} 47'43	0.68184 AU
	11026 Apr 09 04:19	30° \mathfrak{R} \mathfrak{Y}		inferior conj	11027 Mar 27 05:39	10° \mathfrak{Y} 29'08	1°48'50
inferior conj	11026 Apr 11 22:00	26° \mathfrak{Y} 21'14	2°25'36	minimum elong	11027 Mar 27 03:34	10° \mathfrak{Y} 36'05	1°48'06
minimum elong	11026 Apr 11 19:51	26° \mathfrak{Y} 28'40	2°24'48	morning rise	11027 Apr 01 14:45	4° \mathfrak{Y} 30'15	
min. Earth dist.	11026 Apr 11 10:27	27° \mathfrak{Y} 01'06	0.68631 AU	direct	11027 Apr 05 10:00	3° \mathfrak{Y} 07'28	
morning rise	11026 Apr 17 02:53	20° \mathfrak{Y} 14'44		morning max el	11027 Apr 12 20:41	7° \mathfrak{Y} 16'46	19°50'52
direct	11026 Apr 21 10:45	18° \mathfrak{Y} 30'30		desc. node	11027 Apr 23 21:25	21° \mathfrak{Y} 16'46	
morning max el	11026 Apr 29 21:06	23° \mathfrak{Y} 21'12	21°02'02	greatest brilliancy	11027 Apr 26 01:32	24° \mathfrak{Y} 25'29	-0.6m
	11026 May 05 15:51	0° \mathfrak{B}			11027 Apr 29 19:59	0° \mathfrak{B}	

morning set	11027 May 09 10:20	14°♄34'33		morning max el	11028 Mar 26 04:03	21°♄22'46	18°54'47
	11027 May 19 07:45	0°♄			11028 Apr 02 04:24	0°♄	
max. Earth dist.	11027 May 20 11:15	1°♄49'02	1.44480 AU	greatest brilliancy	11028 Apr 09 00:38	10°♄06'12	-0.8m
				desc. node	11028 Apr 09 18:09	11°♄13'05	
superior conj	11027 May 25 13:23	9°♄58'40	-2°11'58	morning set	11028 Apr 17 17:11	23°♄31'28	
minimum elong	11027 May 25 15:48	10°♄08'30	2°12'30		11028 Apr 21 21:07	0°♄	
	11027 Jun 06 14:52	0°♄		max. Earth dist.	11028 May 02 04:23	16°♄04'35	1.45446 AU
evening rise	11027 Jun 07 23:40	2°♄19'15					
asc. node	11027 Jun 17 03:40	17°♄42'40		superior conj	11028 May 04 03:39	19°♄10'06	-2°08'51
evening max el	11027 Jun 25 21:37	29°♄40'19	18°08'34	minimum elong	11028 May 03 22:41	18°♄50'36	2°09'06
	11027 Jun 26 05:45	0°♄			11028 May 10 23:56	0°♄	
retrograde	11027 Jul 02 06:27	3°♄00'42		evening rise	11028 May 19 05:02	13°♄12'14	
evening set	11027 Jul 05 02:06	2°♄19'23			11028 May 29 15:41	0°♄	
	11027 Jul 08 08:11	30°♄		asc. node	11028 Jun 03 00:44	6°♄33'17	
inferior conj	11027 Jul 11 05:41	27°♄02'59	2°30'34	evening max el	11028 Jun 08 10:29	13°♄13'29	18°30'20
minimum elong	11027 Jul 11 08:16	26°♄55'56	2°29'23	retrograde	11028 Jun 14 21:46	16°♄43'29	
min. Earth dist.	11027 Jul 13 23:06	24°♄06'26	0.63018 AU	evening set	11028 Jun 18 01:24	15°♄47'38	
morning rise	11027 Jul 17 12:41	20°♄51'14		inferior conj	11028 Jun 23 18:55	10°♄14'33	3°01'24
desc. node	11027 Jul 20 21:03	18°♄57'26		minimum elong	11028 Jun 23 20:39	10°♄09'20	3°00'31
direct	11027 Jul 24 05:39	18°♄20'15		min. Earth dist.	11028 Jun 25 22:00	7°♄41'50	0.64998 AU
morning max el	11027 Aug 07 05:39	26°♄22'31	27°50'54	morning rise	11028 Jun 29 14:54	3°♄54'49	
	11027 Aug 10 14:39	0°♄		direct	11028 Jul 06 04:09	1°♄12'51	
	11027 Aug 31 06:16	0°♄		desc. node	11028 Jul 06 18:13	1°♄14'02	
morning set	11027 Sep 10 16:13	19°♄30'34		morning max el	11028 Jul 19 16:13	9°♄09'13	27°12'55
asc. node	11027 Sep 13 03:59	24°♄36'39			11028 Aug 04 23:09	0°♄	
	11027 Sep 15 17:19	0°♄			11028 Aug 22 15:50	0°♄	
max. Earth dist.	11027 Sep 15 20:15	0°♄15'43	1.32259 AU	morning set	11028 Aug 24 04:11	2°♄54'39	
				max. Earth dist.	11028 Aug 28 15:22	11°♄49'07	1.33446 AU
superior conj	11027 Sep 18 09:25	5°♄45'52	0°49'40	asc. node	11028 Aug 30 00:46	14°♄41'11	
minimum elong	11027 Sep 18 07:24	5°♄34'50	0°49'17				
evening rise	11027 Sep 25 06:01	20°♄42'42		superior conj	11028 Sep 01 12:39	19°♄55'11	0°24'19
	11027 Sep 29 17:03	0°♄		minimum elong	11028 Sep 01 11:27	19°♄48'52	0°23'54
desc. node	11027 Oct 16 18:28	26°♄58'38			11028 Sep 06 05:48	0°♄	
evening max el	11027 Oct 19 02:03	29°♄22'42	23°42'22	evening rise	11028 Sep 08 16:54	5°♄15'10	
	11027 Oct 19 17:50	0°♄			11028 Sep 21 23:49	0°♄	
retrograde	11027 Nov 01 14:38	6°♄07'45		evening max el	11028 Sep 29 14:23	9°♄29'12	22°02'14
evening set	11027 Nov 06 04:52	5°♄21'48		desc. node	11028 Oct 02 15:47	12°♄08'43	
min. Earth dist.	11027 Nov 12 12:17	2°♄19'56	0.55626 AU	retrograde	11028 Oct 12 06:27	15°♄47'33	
inferior conj	11027 Nov 14 11:10	1°♄10'12	-5°47'01	evening set	11028 Oct 15 09:32	15°♄25'42	
minimum elong	11027 Nov 14 12:33	1°♄08'09	5°46'28	inferior conj	11028 Oct 24 07:10	11°♄27'24	-5°27'53
	11027 Nov 16 11:09	30°♄		minimum elong	11028 Oct 24 00:20	11°♄36'59	5°26'32
morning rise	11027 Nov 22 22:07	27°♄15'57		min. Earth dist.	11028 Oct 23 19:13	11°♄44'10	0.54708 AU
direct	11027 Nov 25 16:52	26°♄56'43		morning rise	11028 Nov 01 16:33	7°♄40'25	
	11027 Dec 03 22:41	0°♄		direct	11028 Nov 05 03:56	7°♄13'47	
morning max el	11027 Dec 06 05:24	1°♄56'06	20°12'23	morning max el	11028 Nov 17 05:36	12°♄56'43	21°43'04
asc. node	11027 Dec 10 04:26	6°♄22'24		asc. node	11028 Nov 26 01:25	24°♄00'26	
	11027 Dec 23 19:19	0°♄			11028 Nov 29 15:46	0°♄	
morning set	11027 Dec 24 12:50	1°♄29'13		morning set	11028 Dec 07 22:36	16°♄14'48	
					11028 Dec 14 10:39	0°♄	
superior conj	11028 Jan 01 04:01	17°♄06'20	1°21'05				
minimum elong	11028 Jan 01 06:38	17°♄19'26	1°21'25	superior conj	11028 Dec 15 02:43	1°♄24'18	1°33'32
max. Earth dist.	11028 Jan 06 19:19	28°♄08'41	1.36689 AU	minimum elong	11028 Dec 15 04:19	1°♄32'41	1°34'04
	11028 Jan 07 18:54	0°♄		max. Earth dist.	11028 Dec 19 07:20	10°♄01'20	1.34756 AU
evening rise	11028 Jan 10 14:11	5°♄10'32		evening rise	11028 Dec 23 12:57	18°♄19'35	
desc. node	11028 Jan 12 17:08	8°♄58'43		desc. node	11028 Dec 29 14:03	29°♄23'54	
	11028 Jan 25 13:41	0°♄			11028 Dec 29 22:18	0°♄	
evening max el	11028 Feb 15 03:33	26°♄22'19	25°47'59		11029 Jan 18 18:36	0°♄	
	11028 Feb 19 07:07	0°♄		evening max el	11029 Jan 27 16:59	10°♄05'39	26°46'01
retrograde	11028 Feb 27 14:52	3°♄31'16		retrograde	11029 Feb 09 20:36	17°♄27'13	
evening set	11028 Mar 04 15:38	1°♄02'58		evening set	11029 Feb 16 08:12	14°♄53'47	
	11028 Mar 05 19:19	30°♄		min. Earth dist.	11029 Feb 20 09:03	10°♄51'56	0.66071 AU
asc. node	11028 Mar 07 02:47	28°♄36'56		inferior conj	11029 Feb 22 08:33	8°♄32'38	0°06'56
min. Earth dist.	11028 Mar 08 22:21	26°♄26'55	0.67325 AU	minimum elong	11029 Feb 22 08:21	8°♄33'13	0°07'08
inferior conj	11028 Mar 10 09:53	24°♄34'41	1°02'37	transit middle	11029 Feb 22 08:21	8°♄33'13	0°07'08
minimum elong	11028 Mar 10 08:25	24°♄39'19	1°02'11	transit begin	11029 Feb 22 05:43	8°♄40'58	
morning rise	11028 Mar 16 01:46	18°♄45'03		transit end	11029 Feb 22 10:59	8°♄25'29	
direct	11028 Mar 19 09:24	17°♄42'06		asc. node	11029 Feb 22 00:04	8°♄57'39	

morning rise	11029 Feb 28 09:41	2° X 54'11		min. Earth dist.	11030 Feb 03 12:12	24° \approx 54'59	0.64461 AU
direct	11029 Mar 03 07:02	2° X 08'05		inferior conj	11030 Feb 05 23:12	22° \approx 17'20	-0°57'56
morning max el	11029 Mar 09 17:31	5° X 32'56	18°15'04	minimum elong	11030 Feb 06 00:59	22° \approx 12'34	0°56'46
	11029 Mar 26 17:06	0° Y		asc. node	11030 Feb 08 21:18	19° \approx 20'43	
desc. node	11029 Mar 27 14:51	1° Y 27'17		morning rise	11030 Feb 12 11:48	16° \approx 52'27	
morning set	11029 Mar 29 01:06	3° Y 44'45		direct	11030 Feb 15 00:35	16° \approx 19'32	
				morning max el	11030 Feb 21 10:28	19° \approx 39'40	17°52'21
superior conj	11029 Apr 13 10:06	28° Y 07'42	-1°45'39		11030 Mar 01 05:41	0° X	
minimum elong	11029 Apr 13 00:41	27° Y 30'50	1°45'04	morning set	11030 Mar 10 13:55	15° X 22'59	
	11029 Apr 14 14:48	0° Z		desc. node	11030 Mar 14 11:32	21° X 54'19	
max. Earth dist.	11029 Apr 14 23:49	0° Z 35'15	1.45678 AU		11030 Mar 19 09:18	0° Y	
evening rise	11029 Apr 29 10:51	23° Z 08'49		superior conj	11030 Mar 24 03:04	7° Y 40'17	-1°08'05
	11029 May 03 20:17	0° II		minimum elong	11030 Mar 23 19:44	7° Y 10'53	1°07'10
greatest brilliancy	11029 May 10 15:31	10° II 30'16	-0.8m	max. Earth dist.	11030 Mar 28 19:01	15° Y 05'16	1.45171 AU
asc. node	11029 May 20 21:52	24° II 48'33			11030 Apr 07 09:01	0° Z	
evening max el	11029 May 22 19:51	26° II 53'43	19°09'34	evening rise	11030 Apr 09 00:46	2° Z 32'40	
	11029 May 26 19:58	0° III		greatest brilliancy	11030 Apr 24 01:29	25° Z 08'43	-0.6m
retrograde	11029 May 29 18:05	0° III 45'56			11030 Apr 27 11:10	0° II	
	11029 Jun 01 13:31	30° R II		evening max el	11030 May 06 00:05	10° II 36'45	20°04'35
evening set	11029 Jun 02 06:05	29° II 34'41		asc. node	11030 May 07 19:01	12° II 16'49	
inferior conj	11029 Jun 07 17:04	23° II 46'36	3°15'20	retrograde	11030 May 13 16:31	15° II 01'47	
minimum elong	11029 Jun 07 17:40	23° II 44'42	3°14'41	evening set	11030 May 17 13:39	13° II 34'37	
min. Earth dist.	11029 Jun 09 05:13	21° II 50'01	0.66595 AU	inferior conj	11030 May 22 21:10	7° II 33'08	3°15'31
morning rise	11029 Jun 13 04:42	17° II 24'59		minimum elong	11030 May 22 20:39	7° II 34'52	3°14'56
direct	11029 Jun 19 09:46	14° II 42'40		min. Earth dist.	11030 May 23 18:54	6° II 19'27	0.67757 AU
desc. node	11029 Jun 23 15:17	15° II 44'52		morning rise	11030 May 28 03:20	1° II 13'26	
morning max el	11029 Jul 02 03:04	22° II 18'49	26°08'05		11030 May 29 16:59	30° R Z	
	11029 Jul 08 20:46	0° III		direct	11030 Jun 02 21:11	28° Z 40'15	
	11029 Jul 29 05:35	0° II			11030 Jun 07 11:53	0° II	
morning set	11029 Aug 07 03:24	15° II 41'45		desc. node	11030 Jun 10 12:17	2° II 00'58	
max. Earth dist.	11029 Aug 10 23:55	23° II 00'21	1.35121 AU	morning max el	11030 Jun 14 12:47	5° II 39'48	24°45'50
	11029 Aug 14 12:58	0° III			11030 Jul 03 08:05	0° III	
superior conj	11029 Aug 16 08:31	3° III 40'28	-0°05'18	morning set	11030 Jul 20 09:22	27° III 39'10	
minimum elong	11029 Aug 16 08:50	3° III 42'08	0°05'34		11030 Jul 21 17:06	0° II	
behind sun begin	11029 Aug 16 03:09	3° III 13'09		max. Earth dist.	11030 Jul 23 23:26	4° II 05'34	1.37202 AU
behind sun end	11029 Aug 16 14:31	4° III 11'09		superior conj	11030 Jul 30 17:50	16° II 53'00	-0°37'57
asc. node	11029 Aug 16 21:34	4° III 47'09		minimum elong	11030 Jul 30 20:19	17° II 05'05	0°37'57
evening rise	11029 Aug 24 01:17	19° III 38'06		asc. node	11030 Aug 03 18:21	24° II 49'59	
	11029 Aug 29 05:04	0° IV			11030 Aug 06 08:06	0° III	
evening max el	11029 Sep 11 13:10	20° IV 03'35	20°34'00	evening rise	11030 Aug 08 04:43	3° III 44'07	
desc. node	11029 Sep 19 13:06	25° IV 10'35			11030 Aug 23 18:25	0° IV	
retrograde	11029 Sep 22 18:16	25° IV 37'27		evening max el	11030 Aug 25 01:53	1° IV 23'23	19°25'21
evening set	11029 Sep 24 21:11	25° IV 26'22		retrograde	11030 Sep 03 14:05	6° IV 07'01	
inferior conj	11029 Oct 03 23:38	21° IV 30'17	-4°12'22	evening set	11030 Sep 05 10:18	5° IV 57'10	
minimum elong	11029 Oct 03 13:44	21° IV 44'35	4°09'17	desc. node	11030 Sep 06 10:26	5° IV 43'50	
min. Earth dist.	11029 Oct 05 03:28	20° IV 50'02	0.54707 AU	inferior conj	11030 Sep 14 02:47	1° IV 50'22	-2°23'01
morning rise	11029 Oct 12 05:56	17° IV 29'58		minimum elong	11030 Sep 13 20:27	2° IV 00'38	2°20'39
direct	11029 Oct 16 12:24	16° IV 50'46		min. Earth dist.	11030 Sep 16 14:49	0° IV 13'34	0.55646 AU
morning max el	11029 Oct 29 19:34	23° IV 17'18	23°28'17		11030 Sep 16 23:29	30° R III	
	11029 Nov 04 19:13	0° V		morning rise	11030 Sep 22 04:08	27° III 19'15	
asc. node	11029 Nov 12 22:19	12° V 24'51		direct	11030 Sep 27 06:32	26° III 20'29	
	11029 Nov 21 22:24	0° VI			11030 Oct 07 04:57	0° IV	
morning set	11029 Nov 22 10:11	1° VI 02'32		morning max el	11030 Oct 11 06:36	3° IV 23'20	25°13'53
superior conj	11029 Nov 29 08:00	15° VI 59'12	1°39'06		11030 Oct 30 01:14	0° V	
minimum elong	11029 Nov 29 08:25	16° VI 01'26	1°39'42	asc. node	11030 Oct 30 19:10	1° V 23'46	
max. Earth dist.	11029 Dec 02 03:00	21° VI 57'18	1.33218 AU	morning set	11030 Nov 06 21:48	15° V 47'05	
	11029 Dec 06 00:19	0° VII			11030 Nov 13 09:34	0° VI	
evening rise	11029 Dec 07 00:30	2° VII 01'21		superior conj	11030 Nov 13 17:23	0° VI 43'08	1°38'21
desc. node	11029 Dec 16 11:03	19° VII 34'09		minimum elong	11030 Nov 13 16:41	0° VI 39'17	1°38'51
	11029 Dec 22 19:57	0° VIII		max. Earth dist.	11030 Nov 15 06:09	4° VI 05'04	1.32139 AU
evening max el	11030 Jan 10 05:53	23° \approx 32'47	27°22'26	evening rise	11030 Nov 20 21:33	16° VI 07'04	
	11030 Jan 19 08:52	0° X			11030 Nov 27 23:59	0° VII	
retrograde	11030 Jan 23 20:07	0° X 56'46		desc. node	11030 Dec 03 08:07	9° VII 22'35	
	11030 Jan 28 00:53	30° R \approx			11030 Dec 17 15:21	0° \approx	
evening set	11030 Jan 30 16:01	28° \approx 24'45					

evening max el	11030 Dec 23 16:36	6° \approx 31'49	27°30'32	min. Earth dist.	11031 Dec 30 12:51	21° \approx 14'03	0.60471 AU
retrograde	11031 Jan 06 12:26	13° \approx 50'45		inferior conj	11032 Jan 02 16:21	18° \approx 35'57	-3°27'23
evening set	11031 Jan 13 12:22	11° \approx 28'11		minimum elong	11032 Jan 02 23:19	18° \approx 21'18	3°24'21
min. Earth dist.	11031 Jan 17 05:54	8° \approx 26'22	0.62558 AU	morning rise	11032 Jan 10 07:37	13° \approx 47'26	
inferior conj	11031 Jan 20 02:57	5° \approx 41'36	-2°10'36	direct	11032 Jan 12 10:42	13° \approx 29'34	
minimum elong	11031 Jan 20 07:18	5° \approx 31'10	2°08'19	asc. node	11032 Jan 13 15:39	13° \approx 35'31	
asc. node	11031 Jan 26 18:29	0° \approx 42'39		morning max el	11032 Jan 19 18:26	17° \approx 09'07	18°00'44
morning rise	11031 Jan 27 04:39	0° \approx 33'13			11032 Jan 28 20:40	0° \approx	
direct	11031 Jan 29 11:05	0° \approx 09'37		morning set	11032 Feb 04 08:59	11° \approx 46'05	
morning max el	11031 Feb 05 03:54	3° \approx 34'54	17°47'15				
morning set	11031 Feb 21 02:44	28° \approx 10'22		superior conj	11032 Feb 14 10:59	0° \approx 06'18	0°13'28
	11031 Feb 22 03:38	0° \approx		minimum elong	11032 Feb 14 12:06	0° \approx 11'14	0°13'39
desc. node	11031 Mar 01 08:15	12° \approx 30'06		behind sun begin	11032 Feb 14 07:57	29° \approx 52'54	
				behind sun end	11032 Feb 14 16:15	0° \approx 29'33	
superior conj	11031 Mar 04 18:41	18° \approx 18'37	-0°25'51		11032 Feb 14 09:33	0° \approx	
minimum elong	11031 Mar 04 16:08	18° \approx 07'54	0°25'16	desc. node	11032 Feb 16 05:00	3° \approx 10'17	
max. Earth dist.	11031 Mar 11 12:14	29° \approx 21'16	1.43980 AU	max. Earth dist.	11032 Feb 22 01:25	13° \approx 07'12	1.42234 AU
	11031 Mar 11 21:53	0° \approx		evening rise	11032 Feb 27 15:27	22° \approx 12'37	
evening rise	11031 Mar 19 13:39	12° \approx 03'22			11032 Mar 03 14:43	0° \approx	
	11031 Mar 31 11:31	0° \approx			11032 Mar 24 15:37	0° \approx	
evening max el	11031 Apr 18 22:47	24° \approx 21'40	21°12'36	evening max el	11032 Mar 31 16:30	8° \approx 07'26	22°29'36
asc. node	11031 Apr 24 16:13	28° \approx 44'40		retrograde	11032 Apr 10 12:01	13° \approx 55'26	
retrograde	11031 Apr 27 15:03	29° \approx 26'49		asc. node	11032 Apr 10 13:28	13° \approx 55'25	
evening set	11031 May 01 22:15	27° \approx 43'47		evening set	11032 Apr 15 06:13	11° \approx 57'10	
inferior conj	11031 May 07 04:50	21° \approx 30'36	3°04'07	inferior conj	11032 Apr 20 13:58	5° \approx 34'41	2°42'26
minimum elong	11031 May 07 03:26	21° \approx 35'29	3°03'28	minimum elong	11032 Apr 20 11:59	5° \approx 41'36	2°41'42
min. Earth dist.	11031 May 07 13:00	21° \approx 02'12	0.68460 AU	min. Earth dist.	11032 Apr 20 09:23	5° \approx 50'40	0.68700 AU
morning rise	11031 May 12 08:23	15° \approx 15'06			11032 Apr 25 02:01	30° \approx 1'00	
direct	11031 May 17 13:21	12° \approx 58'10		morning rise	11032 Apr 25 17:38	29° \approx 1'24'44	
morning max el	11031 May 27 22:39	19° \approx 08'49	23°16'20	direct	11032 Apr 30 09:07	27° \approx 1'28'13	
desc. node	11031 May 28 09:12	19° \approx 35'42			11032 May 06 08:52	0° \approx	
	11031 Jun 06 02:19	0° \approx		morning max el	11032 May 09 11:42	2° \approx 46'38	21°48'43
	11031 Jun 26 11:27	0° \approx		desc. node	11032 May 14 06:05	8° \approx 07'10	
morning set	11031 Jul 01 17:05	8° \approx 34'37			11032 May 30 01:36	0° \approx	
max. Earth dist.	11031 Jul 05 20:28	15° \approx 37'54	1.39498 AU	morning set	11032 Jun 10 22:45	18° \approx 1'19'10	
				max. Earth dist.	11032 Jun 16 21:24	27° \approx 1'59'49	1.41728 AU
superior conj	11031 Jul 13 12:51	29° \approx 23'59	-1°11'29		11032 Jun 18 02:15	0° \approx	
minimum elong	11031 Jul 13 17:45	29° \approx 46'40	1°11'18	superior conj	11032 Jun 24 13:01	11° \approx 2'02'31	-1°42'22
	11031 Jul 13 20:37	0° \approx		minimum elong	11032 Jun 24 19:32	11° \approx 31'04	1°42'17
asc. node	11031 Jul 21 15:12	14° \approx 46'18		evening rise	11032 Jul 05 08:28	0° \approx 1'34'22	
evening rise	11031 Jul 23 00:21	17° \approx 26'08			11032 Jul 05 01:00	0° \approx	
	11031 Jul 29 17:24	0° \approx		asc. node	11032 Jul 07 12:06	4° \approx 1'31'31	
evening max el	11031 Aug 08 02:35	13° \approx 28'25	18°37'59	evening max el	11032 Jul 21 11:24	26° \approx 1'10'01	18°11'19
retrograde	11031 Aug 16 03:43	17° \approx 30'13		retrograde	11032 Jul 28 12:24	29° \approx 1'44'15	
evening set	11031 Aug 18 03:35	17° \approx 16'12		evening set	11032 Jul 30 19:24	29° \approx 1'22'07	
desc. node	11031 Aug 24 07:44	14° \approx 07'58		inferior conj	11032 Aug 06 22:43	24° \approx 1'35'27	0°58'02
inferior conj	11031 Aug 26 01:54	12° \approx 50'13	-0°32'42	minimum elong	11032 Aug 07 00:31	24° \approx 1'31'27	0°56'59
minimum elong	11031 Aug 26 00:35	12° \approx 52'41	0°32'26	desc. node	11032 Aug 10 05:00	21° \approx 1'43'44	
min. Earth dist.	11031 Aug 29 07:04	10° \approx 25'30	0.57338 AU	min. Earth dist.	11032 Aug 10 06:34	21° \approx 1'40'27	0.59475 AU
morning rise	11031 Sep 02 18:09	7° \approx 41'39		morning rise	11032 Aug 14 02:25	18° \approx 1'54'01	
direct	11031 Sep 08 14:31	6° \approx 16'46		direct	11032 Aug 20 11:55	17° \approx 1'00'00	
morning max el	11031 Sep 22 21:52	13° \approx 46'55	26°42'14	morning max el	11032 Sep 03 20:29	24° \approx 1'50'03	27°39'02
	11031 Oct 05 19:15	0° \approx			11032 Sep 08 14:17	0° \approx	
asc. node	11031 Oct 17 15:58	20° \approx 1'48'20			11032 Sep 28 03:26	0° \approx	
morning set	11031 Oct 22 07:50	0° \approx 1'24'13		asc. node	11032 Oct 03 12:47	10° \approx 1'31'26	
	11031 Oct 22 03:17	0° \approx		morning set	11032 Oct 05 14:34	14° \approx 1'49'14	
superior conj	11031 Oct 29 04:49	15° \approx 1'29'58	1°31'44	max. Earth dist.	11032 Oct 11 23:37	28° \approx 1'40'44	1.31422 AU
minimum elong	11031 Oct 29 03:14	15° \approx 1'21'08	1°32'01	superior conj	11032 Oct 12 16:27	0° \approx 1'14'17	1°19'34
max. Earth dist.	11031 Oct 29 14:15	16° \approx 1'22'31	1.31540 AU	minimum elong	11032 Oct 12 14:19	0° \approx 1'02'27	1°19'33
	11031 Nov 04 19:50	0° \approx			11032 Oct 12 13:53	0° \approx	
evening rise	11031 Nov 05 01:25	0° \approx 1'29'34		evening rise	11032 Oct 19 09:47	15° \approx 1'02'34	
desc. node	11031 Nov 20 05:15	28° \approx 1'40'07			11032 Oct 26 19:03	0° \approx	
	11031 Nov 21 01:36	0° \approx		desc. node	11032 Nov 06 02:26	17° \approx 1'14'48	
evening max el	11031 Dec 05 22:21	18° \approx 1'49'05	27°05'20		11032 Nov 16 14:00	0° \approx	
retrograde	11031 Dec 19 20:11	26° \approx 1'00'05		evening max el	11032 Nov 16 20:28	0° \approx 1'15'26	26°06'13
evening set	11031 Dec 26 17:42	23° \approx 1'55'46					

retrograde	11032 Nov 30 18:23	7°  19'01		evening max el	11033 Oct 29 10:29	10°  52'05	24°39'28
evening set	11032 Dec 07 03:45	5°  41'44		retrograde	11033 Nov 12 05:15	17°  46'36	
min. Earth dist.	11032 Dec 11 09:21	3°  06'36	0.58364 AU	evening set	11033 Nov 17 14:09	16°  42'21	
inferior conj	11032 Dec 14 11:56	0°  50'58	-4°40'00	min. Earth dist.	11033 Nov 22 21:55	13°  55'24	0.56482 AU
minimum elong	11032 Dec 14 20:04	0°  36'08	4°37'18	inferior conj	11033 Nov 25 11:10	12°  18'03	-5°33'21
	11032 Dec 15 16:10	30°  R 		minimum elong	11033 Nov 25 16:31	12°  09'32	5°32'08
morning rise	11032 Dec 22 14:59	26°  12'45		morning rise	11033 Dec 03 21:04	8°  13'43	
direct	11032 Dec 24 18:59	26°  09'30		direct	11033 Dec 06 08:08	7°  15'10	
asc. node	11032 Dec 30 12:47	28°  05'29		morning max el	11033 Dec 15 23:57	12°  13'40	19°30'00
	11033 Jan 01 21:05	0° 		asc. node	11033 Dec 17 09:52	14°  01'04	
morning max el	11033 Jan 02 02:26	0°  12'50	18°34'22		11033 Dec 27 22:00	0° 	
morning set	11033 Jan 18 03:24	25°  54'43		morning set	11034 Jan 02 05:58	10°  23'57	
	11033 Jan 20 06:06	0° 					
superior conj	11033 Jan 27 00:27	12°  53'26	0°45'58	superior conj	11034 Jan 10 06:08	26°  25'12	1°10'31
minimum elong	11033 Jan 27 03:16	13°  06'30	0°46'02	minimum elong	11034 Jan 10 09:05	26°  39'41	1°10'44
desc. node	11033 Feb 02 01:47	23°  51'37			11034 Jan 12 02:21	0° 	
max. Earth dist.	11033 Feb 03 09:42	26°  11'08	1.40131 AU	max. Earth dist.	11034 Jan 16 15:31	8°  33'35	1.37915 AU
	11033 Feb 05 14:58	0° 		desc. node	11034 Jan 19 22:37	14°  29'55	
evening rise	11033 Feb 07 13:38	3°  16'38		evening rise	11034 Jan 20 08:59	15°  15'38	
	11033 Feb 24 20:33	0° 			11034 Jan 29 04:07	0° 	
evening max el	11033 Mar 14 07:01	21°  05'52	23°50'08		11034 Feb 19 13:12	0° 	
retrograde	11033 Mar 25 06:08	28°  02'50		evening max el	11034 Feb 24 20:25	5°  45'32	25°07'42
asc. node	11033 Mar 28 10:44	27°  03'58		retrograde	11034 Mar 08 20:14	12°  04'11	
evening set	11033 Mar 30 12:00	26°  10'49		evening set	11034 Mar 14 14:02	10°  19'58	
min. Earth dist.	11033 Apr 04 05:56	20°  03'32	0.68494 AU	asc. node	11034 Mar 15 08:02	9°  39'26	
inferior conj	11033 Apr 04 22:43	19°  04'20	2°11'09	min. Earth dist.	11034 Mar 19 00:30	5°  23'41	0.67861 AU
minimum elong	11033 Apr 04 20:32	19°  04'46	2°10'22	inferior conj	11034 Mar 20 05:10	3°  49'55	1°30'25
morning rise	11033 Apr 10 05:06	13°  03'03		minimum elong	11034 Mar 20 03:17	3°  56'07	1°29'46
direct	11033 Apr 14 07:24	12°  04'17			11034 Mar 23 08:26	30°  R 	
morning max el	11033 Apr 22 07:00	16°  03'03	20°30'05	morning rise	11034 Mar 25 16:50	27°  15'43	
desc. node	11033 May 01 02:55	27°  02'02		direct	11034 Mar 29 06:54	26°  14'04	
	11033 May 03 01:09	0° 			11034 Apr 04 18:35	0° 	
morning set	11033 May 21 05:21	27°  03'57		morning max el	11034 Apr 05 09:59	0°  36'45	19°25'02
	11033 May 23 02:39	0° 		desc. node	11034 Apr 17 23:41	17°  03'04	
max. Earth dist.	11033 May 30 04:51	11°  13'45	1.43622 AU	greatest brilliancy	11034 Apr 18 03:17	17°  16'21	-0.7m
					11034 Apr 26 13:31	0° 	
superior conj	11033 Jun 05 14:12	21°  04'20	-2°05'09	morning set	11034 Apr 30 05:10	5°  36'32	
minimum elong	11033 Jun 05 19:28	22°  02'11	2°05'29	max. Earth dist.	11034 May 12 18:33	25°  09'47	1.44969 AU
	11033 Jun 10 12:55	0° 			11034 May 15 19:51	0° 	
evening rise	11033 Jun 18 00:30	12°  57'47		superior conj	11034 May 16 15:38	1°  18'45	-2°13'09
asc. node	11033 Jun 24 09:04	24°  00'43		minimum elong	11034 May 16 15:05	1°  16'35	2°13'40
	11033 Jun 28 00:16	0° 		evening rise	11034 May 30 19:32	24°  12'53	
evening max el	11033 Jul 05 00:28	9°  18'40	18°04'11		11034 Jun 03 03:49	0° 	
retrograde	11033 Jul 11 12:22	12°  04'01		asc. node	11034 Jun 11 06:06	13°  07'58	
evening set	11033 Jul 14 03:18	12°  06'41		evening max el	11034 Jun 18 14:19	22°  45'52	18°15'42
inferior conj	11033 Jul 20 14:28	7°  00'48	2°03'34	retrograde	11034 Jun 24 23:10	26°  08'41	
minimum elong	11033 Jul 20 17:12	6°  53'51	2°02'16	evening set	11034 Jun 27 22:09	25°  02'12	
min. Earth dist.	11033 Jul 23 14:59	3°  58'11	0.61750 AU	inferior conj	11034 Jul 03 21:00	19°  58'07	2°45'55
morning rise	11033 Jul 27 04:42	0°  56'54		minimum elong	11034 Jul 03 23:18	19°  51'35	2°44'51
desc. node	11033 Jul 28 02:16	0°  21'43		min. Earth dist.	11034 Jul 06 08:41	17°  09'28	0.63898 AU
	11033 Jul 28 17:21	30°  R 		morning rise	11034 Jul 09 23:01	13°  04'20	
direct	11033 Aug 02 20:52	28°  03'51		desc. node	11034 Jul 14 23:27	11°  03'58	
	11033 Aug 08 08:26	0° 		direct	11034 Jul 16 15:12	11°  04'41	
morning max el	11033 Aug 17 01:39	6°  38'23	27°57'29	morning max el	11034 Jul 30 10:51	19°  06'39	27°38'31
	11033 Sep 03 18:47	0° 			11034 Aug 08 16:22	0° 	
morning set	11033 Sep 19 15:57	28°  05'50			11034 Aug 27 17:59	0° 	
asc. node	11033 Sep 20 09:33	0°  26'36		morning set	11034 Sep 03 09:38	12°  03'53	
	11033 Sep 20 04:25	0° 		asc. node	11034 Sep 07 06:20	20°  07'16	
max. Earth dist.	11033 Sep 25 06:14	10°  24'47	1.31803 AU	max. Earth dist.	11034 Sep 08 06:15	22°  08'19	1.32700 AU
superior conj	11033 Sep 27 02:23	14°  24'38	1°02'04	superior conj	11034 Sep 11 08:43	29°  08'44	0°39'29
minimum elong	11033 Sep 27 00:10	14°  37'26	1°01'48	minimum elong	11034 Sep 11 06:58	29°  01'18	0°39'05
evening rise	11033 Oct 03 20:36	29°  03'32			11034 Sep 11 17:52	0° 	
	11033 Oct 04 00:24	0° 		evening rise	11034 Sep 18 08:00	14°  25'27	
	11033 Oct 20 10:10	0° 			11034 Sep 26 03:50	0° 	
desc. node	11033 Oct 23 23:41	4°  14'03		desc. node	11034 Oct 10 20:57	21°  00'02	

evening max el	11034 Oct 10 21:04	21°♄00'19	22°59'11		11035 Sep 03 08:27	0°♄	
retrograde	11034 Oct 24 03:05	27°♄35'59			11035 Sep 21 07:53	0°♄	
evening set	11034 Oct 28 01:46	27°♄02'06		evening max el	11035 Sep 22 13:05	1°♄15'32	21°22'36
min. Earth dist.	11034 Nov 04 06:05	23°♄45'06	0.55137 AU	desc. node	11035 Sep 27 18:14	5°♄19'28	
inferior conj	11034 Nov 05 15:11	22°♄57'29	-5°46'08	retrograde	11035 Oct 04 15:20	7°♄15'56	
minimum elong	11034 Nov 05 12:57	23°♄00'43	5°45'33	evening set	11035 Oct 07 06:16	7°♄00'06	
morning rise	11034 Nov 14 01:47	19°♄07'56		inferior conj	11035 Oct 16 07:51	3°♄04'40	-5°01'57
direct	11034 Nov 17 03:02	18°♄46'04		minimum elong	11035 Oct 15 22:45	3°♄17'26	4°59'43
morning max el	11034 Nov 28 07:55	24°♄04'11	20°48'27	min. Earth dist.	11035 Oct 16 13:05	2°♄57'21	0.54597 AU
	11034 Dec 03 11:38	0°♄			11035 Oct 22 09:58	30°♄	
asc. node	11034 Dec 04 06:52	1°♄06'21		morning rise	11035 Oct 24 16:01	29°♄14'47	
morning set	11034 Dec 17 13:47	25°♄05'32		direct	11035 Oct 28 11:43	28°♄43'17	
	11034 Dec 19 22:24	0°♄			11035 Nov 03 06:40	0°♄	
				morning max el	11035 Nov 10 02:50	4°♄44'57	22°26'40
superior conj	11034 Dec 24 23:39	10°♄29'12	1°27'14	asc. node	11035 Nov 21 03:48	19°♄06'00	
minimum elong	11034 Dec 25 01:52	10°♄40'35	1°27'40		11035 Nov 27 04:28	0°♄	
max. Earth dist.	11034 Dec 30 00:00	20°♄31'21	1.35830 AU	morning set	11035 Dec 02 00:34	9°♄53'11	
evening rise	11035 Jan 02 22:49	28°♄02'10					
	11035 Jan 04 00:24	0°♄		superior conj	11035 Dec 09 01:28	24°♄55'36	1°36'41
desc. node	11035 Jan 06 19:29	5°♄01'19		minimum elong	11035 Dec 09 02:35	25°♄01'28	1°37'16
	11035 Jan 22 11:40	0°♄			11035 Dec 11 11:19	0°♄	
evening max el	11035 Feb 07 09:58	19°♄34'11	26°15'00	max. Earth dist.	11035 Dec 12 15:27	2°♄25'34	1.34054 AU
retrograde	11035 Feb 20 05:09	26°♄49'51		evening rise	11035 Dec 17 03:30	11°♄26'49	
evening set	11035 Feb 26 10:34	24°♄19'02		desc. node	11035 Dec 24 16:25	25°♄21'19	
asc. node	11035 Mar 02 05:20	20°♄25'42			11035 Dec 27 09:38	0°♄	
min. Earth dist.	11035 Mar 02 14:46	19°♄57'23	0.66832 AU		11036 Jan 17 20:13	0°♄	
inferior conj	11035 Mar 04 07:19	17°♄52'56	0°40'11	evening max el	11036 Jan 20 23:34	3°♄13'17	27°04'37
minimum elong	11035 Mar 04 06:18	17°♄56'04	0°39'58	retrograde	11036 Feb 03 08:08	10°♄36'04	
morning rise	11035 Mar 10 02:48	12°♄07'30		evening set	11036 Feb 09 23:41	8°♄02'36	
direct	11035 Mar 13 05:52	11°♄12'04		min. Earth dist.	11036 Feb 13 22:31	4°♄14'41	0.65429 AU
morning max el	11035 Mar 19 20:05	14°♄44'43	18°35'47	inferior conj	11036 Feb 16 02:55	1°♄46'42	-0°19'28
	11035 Mar 31 05:56	0°♄		minimum elong	11036 Feb 16 03:28	1°♄45'08	0°18'53
desc. node	11035 Apr 04 20:24	7°♄07'47		asc. node	11036 Feb 17 02:34	0°♄40'28	
morning set	11035 Apr 09 21:14	15°♄01'59			11036 Feb 17 17:30	30°♄	
	11035 Apr 19 10:12	0°♄		morning rise	11036 Feb 22 08:38	26°♄13'32	
max. Earth dist.	11035 Apr 25 12:48	9°♄33'06	1.45634 AU	direct	11036 Feb 25 02:15	25°♄33'21	
				morning max el	11036 Mar 02 11:22	28°♄54'38	18°03'19
superior conj	11035 Apr 26 00:24	10°♄18'28	-2°01'18		11036 Mar 03 12:34	0°♄	
minimum elong	11035 Apr 25 16:45	9°♄48'36	2°01'12	morning set	11036 Mar 20 17:48	25°♄53'25	
	11035 May 08 12:47	0°♄		desc. node	11036 Mar 21 17:06	27°♄28'32	
evening rise	11035 May 11 14:25	4°♄52'32			11036 Mar 23 06:17	0°♄	
greatest brilliancy	11035 May 19 18:10	17°♄50'12	-0.8m				
	11035 May 27 20:09	0°♄		superior conj	11036 Apr 04 09:11	19°♄25'27	-1°30'55
asc. node	11035 May 29 03:11	1°♄44'54		minimum elong	11036 Apr 03 23:59	18°♄49'09	1°30'04
evening max el	11035 Jun 02 02:02	6°♄23'04	18°45'03	max. Earth dist.	11036 Apr 07 09:04	24°♄07'57	1.45555 AU
retrograde	11035 Jun 08 16:52	10°♄00'42			11036 Apr 11 03:11	0°♄	
evening set	11035 Jun 12 00:03	8°♄58'18		evening rise	11036 Apr 20 12:06	14°♄31'46	
inferior conj	11035 Jun 17 14:24	3°♄18'51	3°09'08		11036 Apr 30 14:08	0°♄	
minimum elong	11035 Jun 17 15:39	3°♄14'56	3°08'22	greatest brilliancy	11036 May 03 15:08	4°♄34'06	-0.7m
min. Earth dist.	11035 Jun 19 11:09	1°♄00'23	0.65731 AU	asc. node	11036 May 15 00:19	19°♄41'49	
	11035 Jun 20 07:27	30°♄		evening max el	11036 May 15 09:24	20°♄05'04	19°31'08
morning rise	11035 Jun 23 06:31	26°♄58'01		retrograde	11036 May 22 14:21	24°♄09'45	
direct	11035 Jun 29 16:54	24°♄14'31		evening set	11036 May 26 06:14	22°♄51'32	
desc. node	11035 Jul 01 20:35	24°♄30'35		inferior conj	11036 May 31 15:23	16°♄57'27	3°16'55
	11035 Jul 10 18:11	0°♄		minimum elong	11036 May 31 15:30	16°♄57'05	3°16'19
morning max el	11035 Jul 12 21:30	2°♄03'35	26°48'04	min. Earth dist.	11036 Jun 01 21:13	15°♄18'54	0.67149 AU
	11035 Aug 02 20:39	0°♄		morning rise	11036 Jun 06 00:22	10°♄36'29	
morning set	11035 Aug 17 16:36	25°♄47'15		direct	11036 Jun 12 00:56	7°♄57'18	
	11035 Aug 19 20:57	0°♄		desc. node	11036 Jun 17 17:38	9°♄49'44	
max. Earth dist.	11035 Aug 21 20:48	3°♄56'44	1.34106 AU	morning max el	11036 Jun 24 07:55	15°♄18'58	25°34'40
asc. node	11035 Aug 25 03:06	10°♄34'56			11036 Jul 06 09:16	0°♄	
					11036 Jul 25 17:20	0°♄	
superior conj	11035 Aug 26 09:09	13°♄10'57	0°12'14	morning set	11036 Jul 30 09:02	8°♄14'20	
minimum elong	11035 Aug 26 08:31	13°♄07'38	0°11'53	max. Earth dist.	11036 Aug 03 01:23	15°♄03'45	1.35971 AU
behind sun begin	11035 Aug 26 04:37	12°♄47'18					
behind sun end	11035 Aug 26 12:25	13°♄27'59		superior conj	11036 Aug 09 00:56	26°♄43'12	-0°18'51
evening rise	11035 Sep 02 18:04	28°♄44'43		minimum elong	11036 Aug 09 02:06	26°♄49'04	0°19'01

asc. node	11036 Aug 10 23:52	0° \cap 39'57		asc. node	11037 Jul 28 20:41	20° Ω 40'36	
	11036 Aug 10 16:00	0° \cap		evening rise	11037 Aug 01 01:12	26° Ω 58'38	
evening rise	11036 Aug 17 00:39	13° \cap 01'26			11037 Aug 02 14:07	0° \cap	
	11036 Aug 25 21:23	0° $\underline{\cap}$		evening max el	11037 Aug 17 11:50	23° \cap 47'38	19°02'39
evening max el	11036 Sep 03 17:38	12° $\underline{\cap}$ 07'45	20°02'07	retrograde	11037 Aug 26 08:19	28° \cap 12'30	
desc. node	11036 Sep 13 15:33	17° $\underline{\cap}$ 19'26		evening set	11037 Aug 28 05:04	28° \cap 01'32	
retrograde	11036 Sep 14 05:10	17° $\underline{\cap}$ 20'19		desc. node	11037 Aug 31 12:53	26° \cap 52'52	
evening set	11036 Sep 16 03:30	17° $\underline{\cap}$ 10'29		inferior conj	11037 Sep 05 14:19	23° \cap 47'06	-1°34'49
inferior conj	11036 Sep 25 03:13	13° $\underline{\cap}$ 10'51	-3°28'03	minimum elong	11037 Sep 05 10:13	23° \cap 54'11	1°33'20
minimum elong	11036 Sep 24 18:17	13° $\underline{\cap}$ 24'18	3°24'57	min. Earth dist.	11037 Sep 08 11:30	21° \cap 48'14	0.56280 AU
min. Earth dist.	11036 Sep 26 22:03	12° $\underline{\cap}$ 06'27	0.54999 AU	morning rise	11037 Sep 13 12:16	18° \cap 59'45	
morning rise	11036 Oct 03 07:51	8° $\underline{\cap}$ 59'25		direct	11037 Sep 18 22:25	17° \cap 50'43	
direct	11036 Oct 07 22:45	8° $\underline{\cap}$ 13'02		morning max el	11037 Oct 03 03:02	25° \cap 06'50	25°54'37
morning max el	11036 Oct 21 14:32	14° $\underline{\cap}$ 55'22	24°14'18		11037 Oct 07 16:19	0° $\underline{\cap}$	
	11036 Nov 02 10:57	0° \cap		asc. node	11037 Oct 24 21:31	26° $\underline{\cap}$ 57'36	
asc. node	11036 Nov 07 00:41	7° \cap 46'28			11037 Oct 26 10:43	0° \cap	
morning set	11036 Nov 15 12:23	24° \cap 40'34		morning set	11037 Oct 30 23:34	9° \cap 23'10	
	11036 Nov 17 23:33	0° \times					
superior conj	11036 Nov 22 08:46	9° \times 35'18	1°39'31	superior conj	11037 Nov 06 19:18	24° \cap 21'50	1°36'15
minimum elong	11036 Nov 22 08:42	9° \times 34'54	1°40'06	minimum elong	11037 Nov 06 18:12	24° \cap 15'41	1°36'40
max. Earth dist.	11036 Nov 24 14:43	14° \times 27'31	1.32700 AU	max. Earth dist.	11037 Nov 07 20:18	26° \cap 40'06	1.31821 AU
evening rise	11036 Nov 29 19:25	25° \times 19'41			11037 Nov 09 08:39	0° \times	
	11036 Dec 02 03:43	0° Z		evening rise	11037 Nov 13 19:42	9° \times 33'37	
desc. node	11036 Dec 10 13:25	15° Z 23'22			11037 Nov 24 11:28	0° Z	
	11036 Dec 19 20:48	0° \approx		desc. node	11037 Nov 27 10:31	5° Z 00'07	
evening max el	11037 Jan 02 11:43	16° \approx 29'52	27°29'36	evening max el	11037 Dec 15 20:25	29° Z 11'52	27°23'54
retrograde	11037 Jan 16 04:30	23° \approx 52'04			11037 Dec 16 17:14	0° \approx	
evening set	11037 Jan 23 02:59	21° \approx 22'46		retrograde	11037 Dec 29 17:33	6° \approx 28'24	
min. Earth dist.	11037 Jan 26 21:39	18° \approx 05'55	0.63688 AU	evening set	11038 Jan 05 17:27	4° \approx 12'08	
inferior conj	11037 Jan 29 13:17	15° \approx 23'41	-1°27'56	min. Earth dist.	11038 Jan 09 10:46	1° \approx 20'18	0.61688 AU
minimum elong	11037 Jan 29 16:06	15° \approx 16'28	1°26'17		11038 Jan 10 22:39	30° R Z	
asc. node	11037 Feb 02 23:48	11° \approx 22'45		inferior conj	11038 Jan 12 11:20	28° Z 36'09	-2°43'02
morning rise	11037 Feb 05 07:20	10° \approx 05'38		minimum elong	11038 Jan 12 16:52	28° Z 23'37	2°40'20
direct	11037 Feb 07 17:11	9° \approx 37'05		morning rise	11038 Jan 19 18:55	23° Z 36'10	
morning max el	11037 Feb 14 04:58	12° \approx 57'53	17°48'02	asc. node	11038 Jan 20 20:59	23° Z 20'50	
	11037 Feb 26 00:14	0° X		direct	11038 Jan 21 23:25	23° Z 15'33	
morning set	11037 Mar 02 17:36	8° X 03'28		morning max el	11038 Jan 28 21:40	26° Z 45'45	17°50'37
desc. node	11037 Mar 08 13:48	17° X 59'50			11038 Jan 31 17:38	0° \approx	
				morning set	11038 Feb 13 14:31	21° \approx 13'10	
superior conj	11037 Mar 15 10:58	29° X 24'03	-0°50'13		11038 Feb 18 12:11	0° X	
minimum elong	11037 Mar 15 05:38	29° X 02'18	0°49'23	desc. node	11038 Feb 23 10:32	8° X 37'49	
	11037 Mar 15 19:48	0° Y					
max. Earth dist.	11037 Mar 21 03:57	8° Y 34'50	1.44744 AU	superior conj	11038 Feb 24 13:18	10° X 32'42	-0°08'32
evening rise	11037 Mar 30 23:36	23° Y 53'30		minimum elong	11038 Feb 24 12:32	10° X 29'26	0°08'09
	11037 Apr 03 23:43	0° Z		behind sun begin	11038 Feb 24 05:07	9° X 57'38	
	11037 Apr 25 01:27	0° II		behind sun end	11038 Feb 24 19:58	11° X 01'10	
evening max el	11037 Apr 28 11:08	3° II 48'20	20°32'04	max. Earth dist.	11038 Mar 03 19:05	22° X 37'36	1.43294 AU
asc. node	11037 May 01 21:29	6° II 46'08			11038 Mar 08 09:20	0° Y	
retrograde	11037 May 06 13:11	8° II 30'06		evening rise	11038 Mar 10 16:29	3° Y 36'52	
evening set	11037 May 10 14:28	6° II 56'00			11038 Mar 28 09:37	0° Z	
inferior conj	11037 May 15 21:17	0° II 49'01	3°11'59	evening max el	11038 Apr 11 07:26	17° Z 32'49	21°44'34
minimum elong	11037 May 15 20:22	0° II 52'11	3°11'24	asc. node	11038 Apr 18 18:43	22° Z 42'57	
	11037 May 16 11:32	30° R Z		retrograde	11038 Apr 20 11:19	22° Z 56'50	
min. Earth dist.	11037 May 16 13:04	29° Z 54'45	0.68109 AU	evening set	11038 Apr 24 22:59	21° Z 07'20	
morning rise	11037 May 21 02:00	24° Z 30'50		inferior conj	11038 Apr 30 05:50	14° Z 49'41	2°56'08
direct	11037 May 26 14:21	22° Z 04'08		minimum elong	11038 Apr 30 04:08	14° Z 55'35	2°55'27
desc. node	11037 Jun 04 14:38	26° Z 42'12		min. Earth dist.	11038 Apr 30 08:31	14° Z 40'18	0.68613 AU
morning max el	11037 Jun 06 17:41	28° Z 44'17	24°08'09	morning rise	11038 May 05 09:05	8° Z 36'08	
	11037 Jun 07 22:48	0° II		direct	11038 May 10 08:15	6° Z 27'33	
	11037 Jun 30 03:06	0° Z		morning max el	11038 May 20 04:28	12° Z 16'31	22°38'16
morning set	11037 Jul 12 06:13	19° Z 47'18		desc. node	11038 May 22 11:34	14° Z 43'06	
max. Earth dist.	11037 Jul 15 23:10	26° Z 17'34	1.38161 AU		11038 Jun 03 07:58	0° II	
	11037 Jul 18 00:30	0° Ω			11038 Jun 22 23:56	0° Z	
				morning set	11038 Jun 23 03:05	0° Z 12'51	
superior conj	11037 Jul 23 04:41	9° Ω 39'08	-0°52'13	max. Earth dist.	11038 Jun 27 20:41	8° Z 06'44	1.40463 AU
minimum elong	11037 Jul 23 08:12	9° Ω 55'55	0°52'08				
				superior conj	11038 Jul 05 16:12	21° Z 48'34	-1°25'12

minimum elong	11038 Jul 05 21:59	22°☿14'43	1°25'01	morning set	11039 Jun 02 21:51	9°♂28'35	
	11038 Jul 10 03:14	0°♂		max. Earth dist.	11039 Jun 10 00:05	20°♂50'54	1.42593 AU
evening rise	11038 Jul 15 16:26	10°♂27'03			11039 Jun 15 12:09	0°♂	
asc. node	11038 Jul 15 17:33	10°♂32'22					
	11038 Jul 26 18:39	0°♂		superior conj	11039 Jun 17 07:04	3°♂02'32	-1°53'24
evening max el	11038 Jul 31 16:32	6°♂09'21	18°24'17	minimum elong	11039 Jun 17 13:32	3°♂30'14	1°53'28
retrograde	11038 Aug 08 06:03	9°♂57'28		evening rise	11039 Jun 28 18:19	23°♂17'27	
evening set	11038 Aug 10 08:42	9°♂40'30			11039 Jul 02 11:57	0°♂	
inferior conj	11038 Aug 17 22:47	5°♂06'05	0°08'44	asc. node	11039 Jul 02 14:30	0°♂11'21	
minimum elong	11038 Aug 17 23:06	5°♂05'28	0°08'18	evening max el	11039 Jul 15 03:41	19°♂03'49	18°05'58
transit middle	11038 Aug 17 23:06	5°♂05'28	0°08'18	retrograde	11039 Jul 21 21:34	22°♂30'24	
transit begin	11038 Aug 17 20:04	5°♂11'35		evening set	11039 Jul 24 08:05	22°♂03'39	
transit end	11038 Aug 18 02:07	4°♂59'20		inferior conj	11039 Jul 31 04:04	17°♂08'39	1°28'54
desc. node	11038 Aug 18 10:13	4°♂42'55		minimum elong	11039 Jul 31 06:30	17°♂02'57	1°27'38
min. Earth dist.	11038 Aug 21 06:51	2°♂25'35	0.58206 AU	min. Earth dist.	11039 Aug 03 09:48	14°♂07'41	0.60452 AU
	11038 Aug 24 20:58	30°♂♂		desc. node	11039 Aug 05 07:30	12°♂31'59	
morning rise	11038 Aug 25 09:57	29°♂42'24		morning rise	11039 Aug 07 02:03	11°♂16'39	
direct	11038 Aug 31 12:45	28°♂04'46		direct	11039 Aug 13 15:29	9°♂10'39	
	11038 Sep 07 09:33	0°♂		morning max el	11039 Aug 27 22:35	17°♂06'04	27°51'36
morning max el	11038 Sep 14 21:15	5°♂45'06	27°10'47		11039 Sep 07 15:06	0°♂	
	11038 Oct 02 20:16	0°♂			11039 Sep 25 11:44	0°♂	
asc. node	11038 Oct 11 18:20	16°♂30'28		asc. node	11039 Sep 28 15:08	6°♂18'46	
morning set	11038 Oct 15 08:24	23°♂55'24		morning set	11039 Sep 29 13:05	8°♂12'26	
	11038 Oct 18 04:02	0°♂		max. Earth dist.	11039 Oct 05 13:45	21°♂11'35	1.31524 AU
superior conj	11038 Oct 22 07:03	9°♂08'13	1°27'15	superior conj	11039 Oct 06 18:10	23°♂48'53	1°12'47
minimum elong	11038 Oct 22 05:11	8°♂57'50	1°27'24	minimum elong	11039 Oct 06 15:57	23°♂36'31	1°12'39
max. Earth dist.	11038 Oct 22 05:11	8°♂57'49	1.31426 AU		11039 Oct 09 13:03	0°♂	
evening rise	11038 Oct 29 01:43	24°♂01'05		evening rise	11039 Oct 13 11:21	8°♂36'04	
	11038 Oct 31 22:29	0°♂			11039 Oct 24 09:20	0°♂	
desc. node	11038 Nov 14 07:40	24°♂00'57		desc. node	11039 Nov 01 04:53	12°♂11'50	
	11038 Nov 18 10:18	0°♂		evening max el	11039 Nov 09 17:56	22°♂12'43	25°32'06
evening max el	11038 Nov 27 23:13	11°♂08'15	26°44'11	retrograde	11039 Nov 23 15:02	29°♂12'06	
retrograde	11038 Dec 11 21:47	18°♂16'25		evening set	11039 Nov 29 15:31	27°♂48'49	
evening set	11038 Dec 18 15:11	16°♂22'49		min. Earth dist.	11039 Dec 04 06:15	25°♂10'56	0.57518 AU
min. Earth dist.	11038 Dec 22 13:24	13°♂45'33	0.59562 AU	inferior conj	11039 Dec 07 04:41	23°♂10'14	-5°06'11
inferior conj	11038 Dec 25 17:35	11°♂14'58	-3°59'25	minimum elong	11039 Dec 07 12:16	22°♂57'12	5°04'02
minimum elong	11038 Dec 26 01:21	10°♂59'34	3°56'22	morning rise	11039 Dec 15 11:21	18°♂53'24	
morning rise	11039 Jan 02 14:16	6°♂35'41		direct	11039 Dec 17 17:36	18°♂37'50	
direct	11039 Jan 04 16:55	6°♂19'21		asc. node	11039 Dec 25 15:17	22°♂02'53	
asc. node	11039 Jan 07 18:09	6°♂55'11		morning max el	11039 Dec 26 13:47	22°♂54'31	18°55'13
morning max el	11039 Jan 12 09:54	10°♂08'18	18°12'24		11040 Jan 01 06:22	0°♂	
	11039 Jan 25 09:31	0°♂		morning set	11040 Jan 12 00:51	19°♂23'16	
morning set	11039 Jan 28 02:32	5°♂04'34			11040 Jan 17 10:29	0°♂	
superior conj	11039 Feb 06 15:10	22°♂47'11	0°28'11	superior conj	11040 Jan 20 12:05	5°♂54'33	0°57'21
minimum elong	11039 Feb 06 17:14	22°♂56'30	0°28'17	minimum elong	11040 Jan 20 15:06	6°♂08'55	0°57'29
desc. node	11039 Feb 10 07:18	29°♂18'53		max. Earth dist.	11040 Jan 27 12:56	18°♂52'03	1.39191 AU
	11039 Feb 10 16:42	0°♂		desc. node	11040 Jan 28 04:04	19°♂59'04	
max. Earth dist.	11039 Feb 14 05:46	6°♂05'15	1.41370 AU	evening rise	11040 Jan 31 09:56	25°♂37'06	
evening rise	11039 Feb 19 02:34	14°♂09'04			11040 Feb 03 00:22	0°♂	
	11039 Mar 01 06:13	0°♂			11040 Feb 22 22:14	0°♂	
	11039 Mar 23 16:38	0°♂		evening max el	11040 Mar 06 13:39	15°♂09'45	24°23'57
evening max el	11039 Mar 24 23:41	1°♂20'09	23°03'53	retrograde	11040 Mar 17 23:34	21°♂50'37	
retrograde	11039 Apr 04 07:13	7°♂25'40		asc. node	11040 Mar 22 13:17	20°♂15'16	
asc. node	11039 Apr 05 15:59	7°♂16'45		evening set	11040 Mar 23 10:34	19°♂33'34	
evening set	11039 Apr 09 06:13	5°♂21'35		min. Earth dist.	11040 Mar 28 01:13	14°♂17'19	0.68281 AU
	11039 Apr 13 20:35	30°♂♂		inferior conj	11040 Mar 28 23:02	13°♂04'06	1°55'02
min. Earth dist.	11039 Apr 14 05:19	29°♂29'54	0.68666 AU	minimum elong	11040 Mar 28 20:55	13°♂11'14	1°54'17
inferior conj	11039 Apr 14 15:03	28°♂56'13	2°30'21	morning rise	11040 Apr 03 07:21	7°♂04'07	
minimum elong	11039 Apr 14 12:56	29°♂03'33	2°29'34	direct	11040 Apr 07 04:26	5°♂38'16	
morning rise	11039 Apr 19 19:32	22°♂48'46		morning max el	11040 Apr 14 18:10	9°♂52'47	20°00'34
direct	11039 Apr 24 05:24	21°♂01'14		desc. node	11040 Apr 25 05:12	23°♂00'32	
morning max el	11039 May 02 19:44	25°♂58'46	21°13'46		11040 Apr 30 00:58	0°♂	
	11039 May 06 11:26	0°♂		morning set	11040 May 11 22:46	17°♂59'57	
desc. node	11039 May 09 08:26	3°♂33'58			11040 May 19 15:41	0°♂	
	11039 May 27 18:59	0°♂		max. Earth dist.	11040 May 22 10:51	4°♂26'08	1.44281 AU

superior conj	11040 May 27 21:52	13° Π 13'47	-2°10'44	max. Earth dist.	11041 May 05 03:04	18° \mathcal{B} 36'40	1.45346 AU
minimum elong	11040 May 28 01:11	13° Π 27'21	2°11'13				
	11040 Jun 06 23:25	0° \mathfrak{E}		superior conj	11041 May 07 14:34	22° \mathcal{B} 30'36	-2°10'39
evening rise	11040 Jun 10 01:55	5° \mathfrak{E} 18'02		minimum elong	11041 May 07 10:43	22° \mathcal{B} 15'28	2°11'00
asc. node	11040 Jun 18 11:29	19° \mathfrak{E} 31'48			11041 May 12 07:59	0° Π	
	11040 Jun 25 14:35	0° Ω		evening rise	11041 May 22 10:48	16° Π 19'41	
evening max el	11040 Jun 27 17:26	2° Ω 21'01	18°06'48		11041 May 30 20:38	0° \mathfrak{E}	
retrograde	11040 Jul 04 02:46	5° Ω 41'18		asc. node	11041 Jun 05 08:31	8° \mathfrak{E} 26'54	
evening set	11040 Jul 06 21:11	5° Ω 02'04		evening max el	11041 Jun 11 06:36	15° \mathfrak{E} 52'32	18°26'00
	11040 Jul 12 22:10	30° \mathcal{R} \mathfrak{E}		retrograde	11041 Jun 17 17:03	19° \mathfrak{E} 20'25	
inferior conj	11040 Jul 13 02:35	29° \mathfrak{E} 48'12	2°24'09	evening set	11041 Jun 20 19:25	18° \mathfrak{E} 26'54	
minimum elong	11040 Jul 13 05:15	29° \mathfrak{E} 41'05	2°22'54	inferior conj	11041 Jun 26 14:12	12° \mathfrak{E} 56'16	2°57'52
min. Earth dist.	11040 Jul 15 21:56	26° \mathfrak{E} 49'30	0.62698 AU	minimum elong	11041 Jun 26 16:05	12° \mathfrak{E} 50'38	2°56'56
morning rise	11040 Jul 19 11:25	23° \mathfrak{E} 38'09		min. Earth dist.	11041 Jun 28 19:32	10° \mathfrak{E} 18'55	0.64721 AU
desc. node	11040 Jul 22 04:43	22° \mathfrak{E} 01'36		morning rise	11041 Jul 02 11:39	6° \mathfrak{E} 37'09	
direct	11040 Jul 26 04:20	21° \mathfrak{E} 09'49		direct	11041 Jul 09 01:46	3° \mathfrak{E} 56'03	
morning max el	11040 Aug 09 05:47	29° \mathfrak{E} 12'06	27°53'48	desc. node	11041 Jul 09 01:53	3° \mathfrak{E} 56'03	
	11040 Aug 10 00:35	0° Ω		morning max el	11041 Jul 22 16:08	11° \mathfrak{E} 54'39	27°20'29
	11040 Aug 31 13:41	0° \mathfrak{M}			11041 Aug 06 01:55	0° Ω	
morning set	11040 Sep 12 11:31	22° \mathfrak{M} 09'10			11041 Aug 24 02:25	0° \mathfrak{M}	
asc. node	11040 Sep 14 11:54	26° \mathfrak{M} 17'28		morning set	11041 Aug 27 01:01	5° \mathfrak{M} 38'11	
	11040 Sep 16 06:18	0° \mathfrak{L}		max. Earth dist.	11041 Aug 31 14:40	14° \mathfrak{M} 48'39	1.33235 AU
max. Earth dist.	11040 Sep 17 18:13	3° \mathfrak{L} 11'45	1.32123 AU	asc. node	11041 Sep 01 08:38	16° \mathfrak{M} 21'33	
superior conj	11040 Sep 20 02:50	8° \mathfrak{L} 18'36	0°53'05	superior conj	11041 Sep 04 06:54	22° \mathfrak{M} 31'05	0°28'27
minimum elong	11040 Sep 20 00:44	8° \mathfrak{L} 07'09	0°52'45	minimum elong	11041 Sep 04 05:32	22° \mathfrak{M} 23'50	0°28'03
evening rise	11040 Sep 26 22:40	23° \mathfrak{L} 13'19			11041 Sep 07 18:38	0° \mathfrak{L}	
	11040 Sep 30 03:57	0° \mathfrak{M}		evening rise	11041 Sep 11 09:43	7° \mathfrak{L} 46'44	
desc. node	11040 Oct 18 02:07	29° \mathfrak{M} 13'48			11041 Sep 23 00:41	0° \mathfrak{M}	
	11040 Oct 18 18:28	0° \mathfrak{J}		evening max el	11041 Oct 02 17:04	12° \mathfrak{M} 38'49	22°16'42
evening max el	11040 Oct 21 05:35	2° \mathfrak{J} 33'22	23°57'25	desc. node	11041 Oct 04 23:25	14° \mathfrak{M} 40'50	
retrograde	11040 Nov 03 20:03	9° \mathfrak{J} 21'22		retrograde	11041 Oct 15 13:25	19° \mathfrak{M} 02'28	
evening set	11040 Nov 08 15:29	8° \mathfrak{J} 30'47		evening set	11041 Oct 18 21:15	18° \mathfrak{M} 37'58	
min. Earth dist.	11040 Nov 14 16:06	5° \mathfrak{J} 33'26	0.55825 AU	min. Earth dist.	11041 Oct 26 23:16	15° \mathfrak{M} 03'12	0.54790 AU
inferior conj	11040 Nov 16 19:16	4° \mathfrak{J} 16'10	-5°45'03	inferior conj	11041 Oct 27 16:59	14° \mathfrak{M} 38'16	-5°34'39
minimum elong	11040 Nov 16 21:50	4° \mathfrak{J} 12'17	5°44'22	minimum elong	11041 Oct 27 11:13	14° \mathfrak{M} 46'23	5°33'33
morning rise	11040 Nov 25 06:10	0° \mathfrak{J} 19'46		morning rise	11041 Nov 05 02:43	10° \mathfrak{M} 51'11	
direct	11040 Nov 27 22:43	0° \mathfrak{J} 01'22		direct	11041 Nov 08 11:17	10° \mathfrak{M} 25'59	
morning max el	11040 Dec 08 05:44	4° \mathfrak{J} 54'35	20°00'43	morning max el	11041 Nov 20 07:54	16° \mathfrak{M} 02'36	21°28'22
asc. node	11040 Dec 11 12:19	8° \mathfrak{J} 30'07		asc. node	11041 Nov 28 09:17	25° \mathfrak{M} 59'49	
	11040 Dec 24 06:36	0° \mathfrak{Z}			11041 Nov 30 21:20	0° \mathfrak{J}	
morning set	11040 Dec 26 06:01	3° \mathfrak{Z} 59'11		morning set	11041 Dec 10 15:19	18° \mathfrak{J} 43'36	
					11041 Dec 15 23:38	0° \mathfrak{Z}	
superior conj	11041 Jan 02 23:20	19° \mathfrak{Z} 41'52	1°18'32	superior conj	11041 Dec 17 20:46	3° \mathfrak{Z} 56'21	1°32'06
minimum elong	11041 Jan 03 02:03	19° \mathfrak{Z} 55'27	1°18'50	minimum elong	11041 Dec 17 22:32	4° \mathfrak{Z} 05'34	1°32'36
	11041 Jan 08 06:13	0° \approx		max. Earth dist.	11041 Dec 22 06:26	12° \mathfrak{Z} 55'45	1.35021 AU
max. Earth dist.	11041 Jan 08 19:39	1° \approx 03'25	1.36999 AU	evening rise	11041 Dec 26 10:09	21° \mathfrak{Z} 00'46	
evening rise	11041 Jan 12 13:35	7° \approx 57'27			11041 Dec 31 07:48	0° \approx	
desc. node	11041 Jan 14 00:54	10° \approx 34'59		desc. node	11041 Dec 31 21:48	1° \approx 01'45	
	11041 Jan 25 19:25	0° \mathfrak{H}			11042 Jan 19 17:02	0° \mathfrak{H}	
evening max el	11041 Feb 17 02:58	28° \mathfrak{H} 59'48	25°37'53	evening max el	11042 Jan 30 16:22	12° \mathfrak{H} 44'29	26°38'37
	11041 Feb 18 04:11	0° Υ		retrograde	11042 Feb 12 18:07	20° \mathfrak{H} 05'12	
retrograde	11041 Mar 01 11:27	6° Υ 06'16		evening set	11042 Feb 19 04:08	17° \mathfrak{H} 32'14	
evening set	11041 Mar 07 10:29	3° Υ 39'01		min. Earth dist.	11042 Feb 23 05:48	13° \mathfrak{H} 25'16	0.66277 AU
asc. node	11041 Mar 09 10:34	1° Υ 42'35		asc. node	11042 Feb 24 07:50	12° \mathfrak{H} 08'16	
	11041 Mar 10 22:02	30° \mathcal{R} \mathfrak{H}		inferior conj	11042 Feb 25 03:31	11° \mathfrak{H} 09'28	0°16'01
min. Earth dist.	11041 Mar 11 18:05	28° \mathfrak{H} 57'51	0.67480 AU	minimum elong	11042 Feb 25 03:05	11° \mathfrak{H} 10'46	0°16'05
inferior conj	11041 Mar 13 03:53	27° \mathfrak{H} 10'03	1°10'17	morning rise	11042 Mar 03 03:07	5° \mathfrak{H} 29'08	
minimum elong	11041 Mar 13 02:17	27° \mathfrak{H} 15'09	1°09'46	direct	11042 Mar 06 01:52	4° \mathfrak{H} 40'48	
morning rise	11041 Mar 18 18:37	21° \mathfrak{H} 18'59		morning max el	11042 Mar 12 13:07	8° \mathfrak{H} 07'24	18°19'54
direct	11041 Mar 22 03:51	20° \mathfrak{H} 13'20			11042 Mar 28 00:08	0° Υ	
morning max el	11041 Mar 29 00:27	23° \mathfrak{H} 57'31	19°02'04	desc. node	11042 Mar 29 22:40	3° Υ 05'23	
	11041 Apr 03 03:57	0° Υ		morning set	11042 Apr 01 06:38	6° Υ 48'41	
greatest brilliancy	11041 Apr 11 08:43	11° Υ 48'10	-0.7m		11042 Apr 15 22:41	0° \mathcal{B}	
desc. node	11041 Apr 12 01:56	12° Υ 53'22					
morning set	11041 Apr 21 02:59	26° Υ 48'06		superior conj	11042 Apr 16 21:05	1° \mathcal{B} 27'38	-1°50'18
	11041 Apr 23 04:29	0° \mathcal{B}					

minimum elong	11042 Apr 16 11:54	0°♄51'42	1°49'50	desc. node	11043 Mar 16 19:22	23°♄30'47	
max. Earth dist.	11042 Apr 17 22:06	3°♄05'25	1.45689 AU		11043 Mar 20 17:56	0°♄	
evening rise	11042 May 02 19:52	26°♄23'43					
	11042 May 05 03:02	0°♄		superior conj	11043 Mar 27 11:31	10°♄52'24	-1°14'18
greatest brilliancy	11042 May 13 07:06	12°♄43'30	-0.8m	minimum elong	11043 Mar 27 03:34	10°♄20'41	1°13'23
asc. node	11042 May 23 05:36	26°♄48'20		max. Earth dist.	11043 Mar 31 17:41	17°♄37'10	1.45291 AU
evening max el	11042 May 25 16:38	29°♄32'16	19°02'42		11043 Apr 08 16:21	0°♄	
	11042 May 26 03:57	0°♄		evening rise	11043 Apr 12 11:23	5°♄50'25	
retrograde	11042 Jun 01 12:45	3°♄20'21		greatest brilliancy	11043 Apr 27 04:27	28°♄01'49	-0.6m
evening set	11042 Jun 04 23:26	2°♄11'29			11043 Apr 28 13:05	0°♄	
	11042 Jun 07 11:39	30°♄		evening max el	11043 May 08 21:46	13°♄15'20	19°55'28
inferior conj	11042 Jun 10 11:13	26°♄25'41	3°14'07	asc. node	11043 May 10 02:46	14°♄24'42	
minimum elong	11042 Jun 10 11:59	26°♄23'13	3°13'27	retrograde	11043 May 16 10:58	17°♄34'37	
min. Earth dist.	11042 Jun 12 01:37	24°♄23'02	0.66385 AU	evening set	11043 May 20 06:44	16°♄09'46	
morning rise	11042 Jun 15 23:55	20°♄04'05		inferior conj	11043 May 25 14:36	10°♄10'15	3°16'14
direct	11042 Jun 22 06:29	17°♄21'01		minimum elong	11043 May 25 14:15	10°♄11'27	3°15'39
desc. node	11042 Jun 25 22:59	18°♄08'20		min. Earth dist.	11043 May 26 14:26	8°♄49'59	0.67617 AU
morning max el	11042 Jul 05 02:56	25°♄01'13	26°19'01	morning rise	11043 May 30 21:26	3°♄50'12	
	11042 Jul 09 15:16	0°♄		direct	11043 Jun 05 17:07	1°♄15'09	
	11042 Jul 30 13:12	0°♄		desc. node	11043 Jun 12 20:03	4°♄10'25	
morning set	11042 Aug 10 02:21	18°♄31'17		morning max el	11043 Jun 17 12:46	8°♄20'39	24°58'46
max. Earth dist.	11042 Aug 14 00:37	26°♄01'41	1.34844 AU		11043 Jul 04 12:15	0°♄	
	11042 Aug 16 00:53	0°♄		morning set	11043 Jul 23 11:11	0°♄36'35	
					11043 Jul 23 02:56	0°♄	
superior conj	11042 Aug 19 04:01	6°♄20'22	-0°00'34	max. Earth dist.	11043 Jul 27 01:15	7°♄06'09	1.36877 AU
minimum elong	11042 Aug 19 04:04	6°♄20'37	0°00'52				
behind sun begin	11042 Aug 18 22:08	5°♄50'12		superior conj	11043 Aug 02 15:09	19°♄38'13	-0°32'51
behind sun end	11042 Aug 19 09:59	6°♄51'04		minimum elong	11043 Aug 02 17:16	19°♄48'38	0°32'55
asc. node	11042 Aug 19 05:24	6°♄27'28		asc. node	11043 Aug 06 02:11	26°♄30'49	
evening rise	11042 Aug 26 18:35	22°♄11'16			11043 Aug 07 19:42	0°♄	
	11042 Aug 30 14:37	0°♄		evening rise	11043 Aug 10 22:55	6°♄20'05	
evening max el	11042 Sep 14 13:57	23°♄07'24	20°46'00		11043 Aug 24 07:52	0°♄	
desc. node	11042 Sep 21 20:43	28°♄03'45		evening max el	11043 Aug 28 00:37	4°♄19'56	19°34'11
retrograde	11042 Sep 26 00:48	28°♄48'17		retrograde	11043 Sep 06 18:38	9°♄10'43	
evening set	11042 Sep 28 06:14	28°♄36'19		evening set	11043 Sep 08 15:05	9°♄01'00	
inferior conj	11042 Oct 07 08:59	24°♄40'57	-4°26'42	desc. node	11043 Sep 08 18:03	8°♄59'41	
minimum elong	11042 Oct 06 23:02	24°♄55'10	4°23'46	inferior conj	11043 Sep 17 09:46	4°♄56'24	-2°40'20
min. Earth dist.	11042 Oct 08 07:13	24°♄09'08	0.54651 AU	minimum elong	11043 Sep 17 02:40	5°♄07'39	2°37'42
morning rise	11042 Oct 15 15:46	20°♄43'50		min. Earth dist.	11043 Sep 19 17:49	3°♄27'51	0.55454 AU
direct	11042 Oct 19 19:28	20°♄06'46		morning rise	11043 Sep 25 12:05	0°♄30'50	
morning max el	11042 Nov 01 22:51	26°♄27'10	23°12'08		11043 Sep 27 04:38	30°♄	
	11042 Nov 05 08:16	0°♄		direct	11043 Sep 30 11:40	29°♄35'28	
asc. node	11042 Nov 15 06:11	14°♄17'50			11043 Oct 03 18:16	0°♄	
	11042 Nov 23 10:37	0°♄		morning max el	11043 Oct 14 09:46	6°♄33'03	24°58'54
morning set	11042 Nov 25 02:43	3°♄30'55			11043 Oct 31 08:59	0°♄	
				asc. node	11043 Nov 02 03:03	3°♄12'19	
superior conj	11042 Dec 02 01:13	18°♄28'49	1°38'40	morning set	11043 Nov 09 14:28	18°♄16'33	
minimum elong	11042 Dec 02 01:49	18°♄32'02	1°39'15		11043 Nov 14 23:18	0°♄	
max. Earth dist.	11042 Dec 05 00:54	24°♄50'06	1.33421 AU				
	11042 Dec 07 12:44	0°♄		superior conj	11043 Nov 16 10:09	3°♄11'57	1°38'51
evening rise	11042 Dec 09 20:00	4°♄38'02		minimum elong	11043 Nov 16 09:37	3°♄08'59	1°39'22
desc. node	11042 Dec 18 18:45	21°♄14'23		max. Earth dist.	11043 Nov 18 03:17	6°♄57'09	1.32270 AU
	11042 Dec 24 01:27	0°♄		evening rise	11043 Nov 23 15:51	18°♄40'54	
evening max el	11043 Jan 13 05:33	26°♄15'01	27°18'44		11043 Nov 29 09:54	0°♄	
	11043 Jan 17 15:36	0°♄		desc. node	11043 Dec 05 15:48	11°♄06'40	
retrograde	11043 Jan 26 18:36	3°♄38'58			11043 Dec 18 09:27	0°♄	
evening set	11043 Feb 02 13:24	1°♄06'27		evening max el	11043 Dec 26 16:51	9°♄19'29	27°31'22
	11043 Feb 03 21:49	30°♄		retrograde	11044 Jan 09 11:55	16°♄39'05	
min. Earth dist.	11043 Feb 06 10:15	27°♄32'00	0.64717 AU	evening set	11044 Jan 16 11:40	14°♄14'35	
inferior conj	11043 Feb 08 19:32	24°♄56'34	-0°47'33	min. Earth dist.	11044 Jan 20 05:27	11°♄09'04	0.62857 AU
minimum elong	11043 Feb 08 20:58	24°♄52'40	0°46'32	inferior conj	11044 Jan 23 01:09	8°♄24'39	-1°59'12
asc. node	11043 Feb 11 05:06	22°♄26'49		minimum elong	11044 Jan 23 05:06	8°♄15'02	1°57'04
morning rise	11043 Feb 15 06:16	19°♄29'20		asc. node	11044 Jan 29 02:20	3°♄37'12	
direct	11043 Feb 17 20:14	18°♄54'39		morning rise	11044 Jan 30 00:49	3°♄13'34	
morning max el	11043 Feb 24 05:43	22°♄14'54	17°54'40	direct	11044 Feb 01 08:06	2°♄48'45	
	11043 Mar 02 08:38	0°♄		morning max el	11044 Feb 07 23:19	6°♄12'30	17°46'54
morning set	11043 Mar 13 15:25	18°♄15'18			11044 Feb 23 12:48	0°♄	

morning set	11044 Feb 24 01:07	0° H 53'48		11045 Feb 14 19:48	0° H	
desc. node	11044 Mar 02 16:04	14° H 05'25				
superior conj	11044 Mar 06 23:27	21° H 20'06	-0°32'12	superior conj	11045 Feb 16 12:12	2° H 57'44 0°07'53
minimum elong	11044 Mar 06 20:10	21° H 06'31	0°31'34	minimum elong	11045 Feb 16 12:53	3° H 00'45 0°08'07
	11044 Mar 12 06:29	0° Y		behind sun begin	11045 Feb 16 05:52	2° H 29'58
max. Earth dist.	11044 Mar 13 11:38	1° Y 57'14	1.44198 AU	behind sun end	11045 Feb 16 19:55	3° H 31'27
evening rise	11044 Mar 21 23:28	15° Y 17'46		desc. node	11045 Feb 17 12:47	4° H 44'49
	11044 Mar 31 16:51	0° B		max. Earth dist.	11045 Feb 24 01:22	15° H 47'46 1.42522 AU
evening max el	11044 Apr 20 21:17	26° B 59'50	21°01'43	evening rise	11045 Mar 01 22:38	25° H 19'12
	11044 Apr 24 07:41	0° II			11045 Mar 04 22:10	0° Y
asc. node	11044 Apr 25 23:59	1° II 02'41			11045 Mar 25 14:36	0° B
retrograde	11044 Apr 29 09:39	1° II 58'36		evening max el	11045 Apr 03 15:35	10° B 44'50 22°17'45
evening set	11044 May 03 15:20	0° II 17'47		asc. node	11045 Apr 12 21:16	16° B 26'02
	11044 May 03 23:52	30° R B		retrograde	11045 Apr 13 07:01	16° B 26'50
inferior conj	11044 May 08 21:54	24° B 06'07	3°06'31	evening set	11045 Apr 17 23:31	14° B 30'42
minimum elong	11044 May 08 20:37	24° B 10'35	3°05'53	inferior conj	11045 Apr 23 06:58	8° B 09'17 2°46'23
min. Earth dist.	11044 May 09 08:00	23° B 31'07	0.68388 AU	minimum elong	11045 Apr 23 05:02	8° B 15'59 2°45'39
morning rise	11044 May 14 01:41	17° B 49'58		min. Earth dist.	11045 Apr 23 04:13	8° B 18'53 0.68691 AU
direct	11044 May 19 08:36	15° B 30'24		morning rise	11045 Apr 28 10:26	1° B 58'23
desc. node	11044 May 29 17:02	21° B 34'43			11045 May 02 15:58	30° R Y
morning max el	11044 May 29 22:34	21° B 48'38	23°29'44	direct	11045 May 03 03:51	29° Y 58'46
	11044 Jun 06 00:59	0° II			11045 May 03 15:53	0° B
	11044 Jun 26 19:00	0° B		morning max el	11045 May 12 11:00	5° B 25'05 22°01'21
morning set	11044 Jul 03 22:33	11° B 41'47		desc. node	11045 May 16 13:55	9° B 58'35
max. Earth dist.	11044 Jul 07 22:25	18° B 33'09	1.39156 AU		11045 May 31 06:52	0° II
	11044 Jul 14 07:19	0° B		morning set	11045 Jun 14 08:16	21° II 37'27
					11045 Jun 19 11:12	0° B
superior conj	11044 Jul 15 12:34	2° B 15'44	-1°06'28	max. Earth dist.	11045 Jun 19 22:28	0° B 46'57 1.41407 AU
minimum elong	11044 Jul 15 17:07	2° B 36'58	1°06'19			
asc. node	11044 Jul 22 23:01	16° B 28'07		superior conj	11045 Jun 27 15:53	14° B 02'53 -1°38'04
evening rise	11044 Jul 24 19:58	20° B 06'11		minimum elong	11045 Jun 27 22:17	14° B 31'09 1°37'56
	11044 Jul 30 00:49	0° B			11045 Jul 06 10:52	0° B
evening max el	11044 Aug 09 23:45	16° B 18'16	18°43'41	evening rise	11045 Jul 08 06:08	3° B 20'29
retrograde	11044 Aug 18 05:34	20° B 25'42		asc. node	11045 Jul 09 19:56	6° B 15'25
evening set	11044 Aug 20 04:28	20° B 12'37		evening max el	11045 Jul 24 07:39	28° B 55'15 18°14'01
desc. node	11044 Aug 25 15:25	17° B 39'43			11045 Jul 25 11:57	0° B
inferior conj	11044 Aug 28 05:40	15° B 49'33	-0°48'28	retrograde	11045 Jul 31 11:36	2° B 32'46
minimum elong	11044 Aug 28 03:41	15° B 53'13	0°47'52	evening set	11045 Aug 02 17:23	2° B 12'08
min. Earth dist.	11044 Aug 31 09:11	13° B 31'07	0.57046 AU		11045 Aug 06 20:38	30° R B
morning rise	11044 Sep 04 23:31	10° B 46'26		inferior conj	11045 Aug 09 23:25	27° B 28'36 0°45'52
direct	11044 Sep 10 17:20	9° B 25'54		minimum elong	11045 Aug 10 00:55	27° B 25'23 0°44'56
morning max el	11044 Sep 25 00:13	16° B 52'30	26°30'55	desc. node	11045 Aug 12 12:43	25° B 16'05
	11044 Oct 05 19:20	0° B		min. Earth dist.	11045 Aug 13 07:41	24° B 36'34 0.59138 AU
asc. node	11044 Oct 18 23:52	22° B 33'28		morning rise	11045 Aug 17 05:05	21° B 51'18
	11044 Oct 22 15:44	0° B		direct	11045 Aug 23 12:58	20° B 01'28
morning set	11044 Oct 24 00:52	2° B 55'09		morning max el	11045 Sep 06 21:50	27° B 49'30 27°32'55
					11045 Sep 09 00:30	0° B
superior conj	11044 Oct 30 21:24	17° B 58'42	1°33'06		11045 Sep 29 12:20	0° B
minimum elong	11044 Oct 30 19:56	17° B 50'31	1°33'25	asc. node	11045 Oct 05 20:39	12° B 13'57
max. Earth dist.	11044 Oct 31 10:54	19° B 13'44	1.31595 AU	morning set	11045 Oct 08 08:13	17° B 22'15
	11044 Nov 05 08:48	0° B			11045 Oct 14 03:41	0° B
evening rise	11044 Nov 06 18:51	3° B 01'09		superior conj	11045 Oct 15 09:07	2° B 43'40 1°21'46
	11044 Nov 21 05:34	0° B		minimum elong	11045 Oct 15 07:03	2° B 32'08 1°21'48
desc. node	11044 Nov 21 12:55	0° B 29'31		max. Earth dist.	11045 Oct 14 20:14	1° B 31'59 1.31406 AU
evening max el	11044 Dec 07 23:25	21° B 43'14	27°11'16	evening rise	11045 Oct 22 02:41	17° B 32'43
retrograde	11044 Dec 21 21:02	28° B 55'39			11045 Oct 28 04:48	0° B
evening set	11044 Dec 28 19:32	26° B 47'52		desc. node	11045 Nov 08 10:05	19° B 11'25
min. Earth dist.	11045 Jan 01 13:55	24° B 04'01	0.60790 AU		11045 Nov 16 18:06	0° B
inferior conj	11045 Jan 04 16:56	21° B 23'48	-3°15'45	evening max el	11045 Nov 19 22:41	3° B 16'48 26°16'59
minimum elong	11045 Jan 04 23:33	21° B 09'37	3°12'47	retrograde	11045 Dec 03 20:55	10° B 21'50
morning rise	11045 Jan 12 06:16	16° B 32'19		evening set	11045 Dec 10 08:44	8° B 40'00
direct	11045 Jan 14 09:36	16° B 13'50		min. Earth dist.	11045 Dec 14 11:55	6° B 04'53 0.58671 AU
asc. node	11045 Jan 14 23:33	16° B 15'14		inferior conj	11045 Dec 17 15:19	3° B 44'45 -4°29'49
morning max el	11045 Jan 21 14:33	19° B 50'30	17°57'29	minimum elong	11045 Dec 17 23:28	3° B 29'34 4°27'00
	11045 Jan 29 02:31	0° B			11045 Dec 23 13:06	30° R B
morning set	11045 Feb 06 05:06	14° B 23'00		morning rise	11045 Dec 25 16:53	29° B 15'23

direct	11045 Dec 27 20:18	28° ♄ 59'50		direct	11046 Dec 09 12:23	10° ♄ 55'22	
	11045 Dec 31 22:32	0° ♄		morning max el	11046 Dec 18 23:01	15° ♄ 27'00	19°20'15
asc. node	11046 Jan 01 20:40	0° ♄ 30'27		asc. node	11046 Dec 19 17:43	16° ♄ 13'42	
morning max el	11046 Jan 04 23:46	2° ♄ 59'08	18°27'58		11046 Dec 29 06:05	0° ♄	
morning set	11046 Jan 20 21:56	28° ♄ 26'55		morning set	11047 Jan 04 23:30	12° ♄ 53'38	
	11046 Jan 21 17:18	0° ♄					
superior conj	11046 Jan 29 22:46	15° ♄ 36'20	0°41'31	superior conj	11047 Jan 13 02:19	29° ♄ 02'07	1°07'18
minimum elong	11046 Jan 30 01:26	15° ♄ 48'39	0°41'36	minimum elong	11047 Jan 13 05:19	29° ♄ 16'43	1°07'29
desc. node	11046 Feb 04 09:31	25° ♄ 25'41			11047 Jan 13 14:14	0° ♄	
max. Earth dist.	11046 Feb 06 10:02	28° ♄ 56'48	1.40457 AU	max. Earth dist.	11047 Jan 19 15:56	11° ♄ 24'46	1.38242 AU
	11046 Feb 07 00:44	0° ♄		desc. node	11047 Jan 22 06:19	16° ♄ 04'33	
evening rise	11046 Feb 10 17:33	6° ♄ 14'15		evening rise	11047 Jan 23 09:53	18° ♄ 05'37	
	11046 Feb 26 01:07	0° ♄			11047 Jan 30 12:02	0° ♄	
evening max el	11046 Mar 17 06:24	24° ♄ 31'59	23°38'14	evening max el	11047 Feb 20 09:00	0° ♄	
	11046 Mar 24 09:37	0° ♄		retrograde	11047 Feb 27 19:55	8° ♄ 22'13	24°56'41
retrograde	11046 Mar 28 01:41	0° ♄ 54'17		evening set	11047 Mar 11 16:20	15° ♄ 15'54	
asc. node	11046 Mar 30 18:34	0° ♄ 19'49		asc. node	11047 Mar 17 08:22	12° ♄ 54'17	
	11046 Mar 31 10:40	30° ♄		min. Earth dist.	11047 Mar 17 15:51	12° ♄ 37'57	
evening set	11046 Apr 02 05:42	28° ♄ 44'18		inferior conj	11047 Mar 21 19:54	7° ♄ 52'45	0.67982 AU
min. Earth dist.	11046 Apr 07 00:54	23° ♄ 07'39	0.68548 AU	minimum elong	11047 Mar 22 22:46	6° ♄ 24'15	1°37'14
inferior conj	11046 Apr 07 15:52	22° ♄ 16'22	2°16'32	morning rise	11047 Mar 22 20:47	6° ♄ 30'45	1°36'32
minimum elong	11046 Apr 07 13:41	22° ♄ 23'51	2°15'44		11047 Mar 28 09:28	0° ♄ 27'35	
morning rise	11046 Apr 12 21:40	16° ♄ 11'55			11047 Mar 29 02:52	30° ♄	
direct	11046 Apr 17 01:53	14° ♄ 33'52		direct	11047 Apr 01 01:19	29° ♄ 10'35	
morning max el	11046 Apr 25 05:09	19° ♄ 12'13	20°40'59	morning max el	11047 Apr 04 03:28	0° ♄	
desc. node	11046 May 03 10:43	29° ♄ 05'42		desc. node	11047 Apr 08 06:55	3° ♄ 11'01	19°33'43
	11046 May 04 02:47	0° ♄		greatest brilliancy	11047 Apr 20 07:28	18° ♄ 44'33	
	11046 May 24 10:11	0° ♄			11047 Apr 20 23:23	19° ♄ 42'52	-0.7m
morning set	11046 May 24 17:34	0° ♄			11047 Apr 27 20:04	0° ♄	
max. Earth dist.	11046 May 24 17:34	0° ♄		morning set	11047 Apr 27 20:04	0° ♄	
	11046 Jun 02 04:39	13° ♄ 52'24	1.43368 AU	max. Earth dist.	11047 May 03 16:50	8° ♄ 58'20	
					11047 May 15 17:31	27° ♄ 42'56	1.44813 AU
					11047 May 17 04:08	0° ♄	
superior conj	11046 Jun 08 20:40	24° ♄ 49'55	-2°02'29	superior conj	11047 May 20 01:23	4° ♄ 36'10	-2°13'08
minimum elong	11046 Jun 09 02:24	25° ♄ 13'55	2°02'45	minimum elong	11047 May 20 01:58	4° ♄ 38'28	2°13'41
	11046 Jun 11 22:09	0° ♄		evening rise	11047 Jun 02 23:14	27° ♄ 27'03	
evening rise	11046 Jun 21 00:52	15° ♄ 51'01			11047 Jun 04 11:41	0° ♄	
asc. node	11046 Jun 26 16:53	25° ♄ 47'16		asc. node	11047 Jun 13 13:55	14° ♄ 58'04	
	11046 Jun 29 04:36	0° ♄		evening max el	11047 Jun 21 10:16	25° ♄ 25'09	18°12'50
evening max el	11046 Jul 07 20:20	12° ♄ 00'29	18°04'03	retrograde	11047 Jun 27 18:52	28° ♄ 46'45	
retrograde	11046 Jul 14 09:28	15° ♄ 22'47		evening set	11047 Jun 30 16:42	28° ♄ 01'37	
evening set	11046 Jul 16 23:14	14° ♄ 51'10		inferior conj	11047 Jul 06 17:08	22° ♄ 40'41	2°40'47
inferior conj	11046 Jul 23 12:34	9° ♄ 48'10	1°55'12	minimum elong	11047 Jul 06 19:33	22° ♄ 33'56	2°39'40
minimum elong	11046 Jul 23 15:16	9° ♄ 41'26	1°53'52	min. Earth dist.	11047 Jul 09 06:53	19° ♄ 48'56	0.63598 AU
min. Earth dist.	11046 Jul 26 14:41	6° ♄ 45'10	0.61417 AU	morning rise	11047 Jul 12 20:52	16° ♄ 26'01	
morning rise	11046 Jul 30 04:48	3° ♄ 47'00		desc. node	11047 Jul 17 07:11	14° ♄ 07'49	
desc. node	11046 Jul 30 10:00	3° ♄ 38'17		direct	11047 Jul 19 13:28	13° ♄ 50'39	
direct	11046 Aug 05 20:32	1° ♄ 30'13		morning max el	11047 Aug 02 10:41	21° ♄ 52'48	27°43'30
morning max el	11046 Aug 20 02:02	9° ♄ 30'41	27°57'08		11047 Aug 09 13:00	0° ♄	
	11046 Sep 04 22:48	0° ♄			11047 Aug 29 03:16	0° ♄	
	11046 Sep 21 16:39	0° ♄		morning set	11047 Sep 06 05:29	15° ♄ 17'16	
morning set	11046 Sep 22 10:30	1° ♄ 31'33		asc. node	11047 Sep 09 14:09	22° ♄ 08'37	
asc. node	11046 Sep 22 17:25	2° ♄ 07'11		max. Earth dist.	11047 Sep 11 04:36	25° ♄ 30'15	1.32535 AU
max. Earth dist.	11046 Sep 28 03:22	13° ♄ 40'24	1.31715 AU		11047 Sep 13 07:10	0° ♄	
superior conj	11046 Sep 29 19:26	17° ♄ 20'28	1°05'04	superior conj	11047 Sep 14 02:25	1° ♄ 43'47	0°43'14
minimum elong	11046 Sep 29 17:12	17° ♄ 08'07	1°04'50	minimum elong	11047 Sep 14 00:33	1° ♄ 33'43	0°42'50
	11046 Oct 05 13:21	0° ♄		evening rise	11047 Sep 21 00:39	16° ♄ 45'20	
evening rise	11046 Oct 06 13:13	2° ♄ 09'05			11047 Sep 27 12:22	0° ♄	
	11046 Oct 21 09:58	0° ♄		desc. node	11047 Oct 13 04:36	23° ♄ 20'58	
desc. node	11046 Oct 26 07:19	6° ♄ 55'45		evening max el	11047 Oct 14 00:27	24° ♄ 10'25	23°14'16
evening max el	11046 Nov 01 13:49	13° ♄ 59'59	24°53'39		11047 Oct 22 17:16	0° ♄	
retrograde	11046 Nov 15 09:33	20° ♄ 55'59		retrograde	11047 Oct 27 09:01	0° ♄ 49'30	
evening set	11046 Nov 20 22:46	19° ♄ 46'53		evening set	11047 Oct 31 13:12	0° ♄ 11'40	
min. Earth dist.	11046 Nov 26 01:35	17° ♄ 02'46	0.56735 AU		11047 Nov 01 04:05	30° ♄	
inferior conj	11046 Nov 28 17:36	15° ♄ 19'02	-5°27'26	min. Earth dist.	11047 Nov 07 10:03	27° ♄ 00'18	0.55291 AU
minimum elong	11046 Nov 28 23:42	15° ♄ 09'06	5°25'58	inferior conj	11047 Nov 09 00:09	26° ♄ 04'56	-5°47'41
morning rise	11046 Dec 07 02:52	11° ♄ 11'31					

minimum elong	11047 Nov 08 23:13	26° \mathbb{M} 06'17	5°47'11	minimum elong	11048 Oct 18 09:21	6° \mathbb{M} 27'23	5°10'26
morning rise	11047 Nov 17 10:57	22° \mathbb{M} 13'58		min. Earth dist.	11048 Oct 18 16:55	6° \mathbb{M} 16'48	0.54618 AU
direct	11047 Nov 20 09:52	21° \mathbb{M} 53'05		morning rise	11048 Oct 27 02:25	2° \mathbb{M} 27'13	
morning max el	11047 Dec 01 09:02	27° \mathbb{M} 04'39	20°35'25	direct	11048 Oct 30 19:13	1° \mathbb{M} 57'31	
	11047 Dec 04 03:08	0° \mathbb{A}		morning max el	11048 Nov 12 05:44	7° \mathbb{M} 52'28	22°11'07
asc. node	11047 Dec 06 14:42	3° \mathbb{A} 09'21		asc. node	11048 Nov 22 11:38	21° \mathbb{M} 01'45	
morning set	11047 Dec 20 06:42	27° \mathbb{A} 34'03			11048 Nov 27 14:02	0° \mathbb{A}	
	11047 Dec 21 10:57	0° \mathbb{B}		morning set	11048 Dec 03 17:13	12° \mathbb{A} 21'25	
superior conj	11047 Dec 27 18:18	13° \mathbb{B} 02'01	1°25'11	superior conj	11048 Dec 10 19:08	27° \mathbb{A} 25'55	1°35'42
minimum elong	11047 Dec 27 20:40	13° \mathbb{B} 14'04	1°25'34	minimum elong	11048 Dec 10 20:25	27° \mathbb{A} 32'42	1°36'15
max. Earth dist.	11048 Jan 01 23:56	23° \mathbb{B} 25'56	1.36123 AU		11048 Dec 12 00:25	0° \mathbb{B}	
	11048 Jan 05 11:18	0° \mathbb{A}		max. Earth dist.	11048 Dec 14 14:16	5° \mathbb{B} 19'56	1.34294 AU
evening rise	11048 Jan 05 21:12	0° \mathbb{A} 45'42		evening rise	11048 Dec 18 23:56	14° \mathbb{B} 05'19	
desc. node	11048 Jan 09 03:09	6° \mathbb{A} 37'12		desc. node	11048 Dec 26 00:07	26° \mathbb{B} 59'17	
	11048 Jan 23 15:28	0° \mathbb{H}			11048 Dec 27 17:58	0° \mathbb{A}	
evening max el	11048 Feb 10 09:28	22° \mathbb{H} 11'45	26°05'54		11049 Jan 17 11:23	0° \mathbb{H}	
retrograde	11048 Feb 23 01:59	29° \mathbb{H} 25'06		evening max el	11049 Jan 22 23:02	5° \mathbb{H} 52'32	26°58'32
evening set	11048 Feb 29 05:48	26° \mathbb{H} 55'07		retrograde	11049 Feb 05 05:53	13° \mathbb{H} 14'57	
asc. node	11048 Mar 03 13:08	23° \mathbb{H} 33'41		evening set	11049 Feb 11 20:10	10° \mathbb{H} 41'19	
min. Earth dist.	11048 Mar 04 10:53	22° \mathbb{H} 28'27	0.67014 AU	min. Earth dist.	11049 Feb 15 19:41	6° \mathbb{H} 48'38	0.65665 AU
inferior conj	11048 Mar 06 01:40	20° \mathbb{H} 28'11	0°48'25	inferior conj	11049 Feb 17 22:24	4° \mathbb{H} 23'29	-0°09'50
minimum elong	11048 Mar 06 00:28	20° \mathbb{H} 31'53	0°48'08	minimum elong	11049 Feb 17 22:40	4° \mathbb{H} 22'43	0°09'23
morning rise	11048 Mar 11 19:50	14° \mathbb{H} 41'13		transit middle	11049 Feb 17 22:40	4° \mathbb{H} 22'43	0°09'23
direct	11048 Mar 15 00:31	13° \mathbb{H} 43'09		transit begin	11049 Feb 17 20:15	4° \mathbb{H} 29'39	
morning max el	11048 Mar 21 16:04	17° \mathbb{H} 18'16	18°42'04	transit end	11049 Feb 18 01:05	4° \mathbb{H} 15'48	
	11048 Mar 31 10:23	0° \mathbb{Y}		asc. node	11049 Feb 18 10:22	3° \mathbb{H} 49'16	
desc. node	11048 Apr 06 04:10	8° \mathbb{Y} 46'13			11049 Feb 22 06:22	30° \mathbb{R} \mathbb{A}	
morning set	11048 Apr 12 05:20	18° \mathbb{Y} 12'47		morning rise	11049 Feb 24 02:28	28° \mathbb{A} 48'27	
	11048 Apr 19 18:11	0° \mathbb{B}		direct	11049 Feb 26 21:22	28° \mathbb{A} 06'16	
max. Earth dist.	11048 Apr 27 11:32	12° \mathbb{B} 04'10	1.45587 AU		11049 Mar 03 14:26	0° \mathbb{H}	
superior conj	11048 Apr 28 11:41	13° \mathbb{B} 38'43	-2°04'24	morning max el	11049 Mar 05 06:47	1° \mathbb{H} 28'26	18°07'04
minimum elong	11048 Apr 28 04:53	13° \mathbb{B} 12'06	2°04'26	morning set	11049 Mar 23 21:29	28° \mathbb{H} 50'53	
	11048 May 08 20:41	0° \mathbb{I}		desc. node	11049 Mar 24 00:53	29° \mathbb{H} 04'40	
evening rise	11048 May 13 21:41	8° \mathbb{I} 02'39			11049 Mar 24 14:31	0° \mathbb{Y}	
greatest brilliancy	11048 May 21 02:01	19° \mathbb{I} 32'01	-0.9m	superior conj	11049 Apr 07 19:16	22° \mathbb{Y} 41'16	-1°36'24
	11048 May 27 20:46	0° \mathbb{B}		minimum elong	11049 Apr 07 09:52	22° \mathbb{Y} 04'16	1°35'38
asc. node	11048 May 30 10:59	3° \mathbb{B} 39'57		max. Earth dist.	11049 Apr 10 07:38	26° \mathbb{Y} 38'04	1.45617 AU
evening max el	11048 Jun 03 22:25	9° \mathbb{B} 00'57	18°39'35		11049 Apr 12 11:18	0° \mathbb{B}	
retrograde	11048 Jun 10 11:48	12° \mathbb{B} 35'35		evening rise	11049 Apr 23 22:01	17° \mathbb{B} 47'15	
evening set	11048 Jun 13 17:46	11° \mathbb{B} 35'27			11049 May 01 19:53	0° \mathbb{I}	
inferior conj	11048 Jun 19 09:08	5° \mathbb{B} 58'10	3°06'38	greatest brilliancy	11049 May 06 09:20	6° \mathbb{I} 55'24	-0.7m
minimum elong	11048 Jun 19 10:34	5° \mathbb{B} 53'45	3°05'50	asc. node	11049 May 17 08:07	21° \mathbb{I} 43'29	
min. Earth dist.	11048 Jun 21 08:06	3° \mathbb{B} 34'33	0.65481 AU	evening max el	11049 May 18 06:28	22° \mathbb{I} 42'02	19°23'17
	11048 Jun 24 16:21	30° \mathbb{R} \mathbb{I}		retrograde	11049 May 25 08:57	26° \mathbb{I} 42'13	
morning rise	11048 Jun 25 02:34	29° \mathbb{I} 37'39		evening set	11049 May 28 23:27	25° \mathbb{I} 26'24	
direct	11048 Jul 01 14:02	26° \mathbb{I} 54'34		inferior conj	11049 Jun 03 09:11	19° \mathbb{I} 34'19	3°16'34
desc. node	11048 Jul 03 04:19	27° \mathbb{I} 03'23		minimum elong	11049 Jun 03 09:28	19° \mathbb{I} 33'24	3°15'58
	11048 Jul 09 10:25	0° \mathbb{B}		min. Earth dist.	11049 Jun 04 17:12	17° \mathbb{I} 49'24	0.66963 AU
morning max el	11048 Jul 14 21:21	4° \mathbb{B} 46'21	26°57'19	morning rise	11049 Jun 08 19:03	13° \mathbb{I} 13'01	
	11048 Aug 03 02:12	0° \mathbb{Q}		direct	11049 Jun 14 21:10	10° \mathbb{I} 32'39	
morning set	11048 Aug 19 14:17	28° \mathbb{Q} 32'11		desc. node	11049 Jun 20 01:24	12° \mathbb{I} 05'38	
	11048 Aug 20 08:30	0° \mathbb{P}		morning max el	11049 Jun 27 07:58	17° \mathbb{I} 59'46	25°46'41
max. Earth dist.	11048 Aug 23 20:54	6° \mathbb{P} 57'10	1.33863 AU		11049 Jul 07 09:49	0° \mathbb{B}	
asc. node	11048 Aug 26 10:56	12° \mathbb{P} 14'10			11049 Jul 27 02:19	0° \mathbb{Q}	
superior conj	11048 Aug 28 03:54	15° \mathbb{P} 47'39	0°16'40	morning set	11049 Aug 02 09:09	11° \mathbb{Q} 06'07	
minimum elong	11048 Aug 28 03:03	15° \mathbb{P} 43'11	0°16'17	max. Earth dist.	11049 Aug 06 02:49	18° \mathbb{Q} 04'57	1.35663 AU
	11048 Sep 03 20:36	0° \mathbb{L}		superior conj	11049 Aug 11 21:09	29° \mathbb{Q} 24'12	-0°13'57
evening rise	11048 Sep 04 11:04	1° \mathbb{L} 16'16		minimum elong	11049 Aug 11 22:00	29° \mathbb{Q} 28'31	0°14'09
	11048 Sep 20 18:08	0° \mathbb{M}		behind sun begin	11049 Aug 11 19:02	29° \mathbb{Q} 13'30	
evening max el	11048 Sep 24 15:05	4° \mathbb{M} 22'29	21°36'13	behind sun end	11049 Aug 12 00:59	29° \mathbb{Q} 43'33	
desc. node	11048 Sep 29 01:55	7° \mathbb{M} 59'41			11049 Aug 12 04:14	0° \mathbb{P}	
retrograde	11048 Oct 06 22:23	10° \mathbb{M} 29'29		asc. node	11049 Aug 13 07:43	2° \mathbb{P} 19'22	
evening set	11048 Oct 09 17:21	10° \mathbb{M} 11'46		evening rise	11049 Aug 19 18:19	15° \mathbb{P} 35'01	
inferior conj	11048 Oct 18 17:49	6° \mathbb{M} 15'33	-5°12'21		11049 Aug 27 03:16	0° \mathbb{L}	

evening max el	11049 Sep 06 17:33	15°♌07'49	20°12'55		11050 Aug 24 19:14	0°♌	
desc. node	11049 Sep 15 23:16	20°♌22'01		retrograde	11050 Aug 29 11:44	1°♌11'40	
retrograde	11049 Sep 17 11:22	20°♌28'05		evening set	11050 Aug 31 08:05	1°♌01'12	
evening set	11049 Sep 19 10:55	20°♌17'59		desc. node	11050 Sep 02 20:36	0°♌15'49	
inferior conj	11049 Sep 28 11:52	16°♌19'46	-3°44'25		11050 Sep 03 11:21	30°♌♊	
minimum elong	11049 Sep 28 02:28	16°♌33'42	3°41'15	inferior conj	11050 Sep 08 20:00	26°♊49'40	-1°51'54
min. Earth dist.	11049 Sep 30 01:36	15°♌23'51	0.54876 AU	minimum elong	11050 Sep 08 15:06	26°♊57'56	1°50'04
morning rise	11049 Oct 06 17:06	12°♌12'35		min. Earth dist.	11050 Sep 11 14:21	24°♊58'14	0.56042 AU
direct	11049 Oct 11 04:59	11°♌28'54		morning rise	11050 Sep 16 19:11	22°♊08'01	
morning max el	11049 Oct 24 18:06	18°♌05'52	23°58'16	direct	11050 Sep 22 02:41	21°♊02'39	
	11049 Nov 03 12:04	0°♌		morning max el	11050 Oct 06 05:57	28°♊14'32	25°40'50
asc. node	11049 Nov 09 08:32	9°♌36'34			11050 Oct 08 00:05	0°♌	
morning set	11049 Nov 18 05:00	27°♌09'02		asc. node	11050 Oct 27 05:24	28°♌43'23	
	11049 Nov 19 12:51	0°♌			11050 Oct 27 21:17	0°♌	
				morning set	11050 Nov 02 16:23	11°♌52'15	
superior conj	11049 Nov 25 01:48	12°♌04'07	1°39'30				
minimum elong	11049 Nov 25 01:54	12°♌04'40	1°40'04	superior conj	11050 Nov 09 11:59	26°♌49'47	1°37'07
max. Earth dist.	11049 Nov 27 12:17	17°♌19'28	1.32873 AU	minimum elong	11050 Nov 09 11:01	26°♌44'26	1°37'34
evening rise	11049 Dec 02 14:24	27°♌54'24		max. Earth dist.	11050 Nov 10 17:02	29°♌30'05	1.31920 AU
	11049 Dec 03 15:32	0°♌			11050 Nov 10 22:28	0°♌	
desc. node	11049 Dec 12 21:08	17°♌04'20		evening rise	11050 Nov 16 13:36	12°♌05'28	
	11049 Dec 20 23:19	0°♌			11050 Nov 25 19:48	0°♌	
evening max el	11050 Jan 05 11:28	19°♌12'50	27°27'38	desc. node	11050 Nov 29 18:12	6°♌45'17	
retrograde	11050 Jan 19 03:28	26°♌35'58			11050 Dec 16 20:11	0°♌	
evening set	11050 Jan 26 01:08	24°♌05'29		evening max el	11050 Dec 18 20:56	2°♌01'06	27°26'57
min. Earth dist.	11050 Jan 29 20:15	20°♌44'14	0.63964 AU	retrograde	11051 Jan 01 17:46	9°♌18'41	
inferior conj	11050 Feb 01 10:21	18°♌03'17	-1°17'03	evening set	11051 Jan 08 17:46	7°♌00'02	
minimum elong	11050 Feb 01 12:47	17°♌56'57	1°15'34	min. Earth dist.	11051 Jan 12 11:04	4°♌04'50	0.61994 AU
asc. node	11050 Feb 05 07:37	14°♌23'31		inferior conj	11051 Jan 15 10:29	1°♌20'08	-2°31'23
morning rise	11050 Feb 08 02:27	12°♌42'53		minimum elong	11051 Jan 15 15:36	1°♌08'18	2°28'51
direct	11050 Feb 10 13:17	12°♌12'54			11051 Jan 16 21:47	30°♌♊	
morning max el	11050 Feb 17 00:16	15°♌33'16	17°49'12	morning rise	11051 Jan 22 16:01	26°♊17'07	
	11050 Feb 27 07:22	0°♌		asc. node	11051 Jan 23 04:51	26°♊08'03	
morning set	11050 Mar 05 17:37	10°♌50'26		direct	11051 Jan 24 21:04	25°♊55'35	
desc. node	11050 Mar 10 21:36	19°♌34'39		morning max el	11051 Jan 31 17:19	29°♊23'57	17°49'02
	11050 Mar 17 04:46	0°♌			11051 Feb 01 07:28	0°♌	
				morning set	11051 Feb 16 11:49	23°♌52'36	
superior conj	11050 Mar 18 17:53	2°♌30'52	-0°56'37		11051 Feb 19 22:18	0°♌	
minimum elong	11050 Mar 18 11:49	2°♌06'15	0°55'46	desc. node	11051 Feb 25 18:17	10°♌11'43	
max. Earth dist.	11050 Mar 24 02:41	11°♌06'26	1.44905 AU				
evening rise	11050 Apr 03 10:08	27°♌09'22		superior conj	11051 Feb 27 16:27	13°♌28'49	-0°14'37
	11050 Apr 05 06:45	0°♌		minimum elong	11051 Feb 27 15:05	13°♌23'00	0°14'10
	11050 Apr 25 21:34	0°♌		behind sun begin	11051 Feb 27 10:59	13°♌05'36	
evening max el	11050 May 01 09:07	6°♌25'34	20°22'09	behind sun end	11051 Feb 27 19:11	13°♌40'23	
asc. node	11050 May 04 05:18	8°♌57'01		max. Earth dist.	11051 Mar 06 18:28	25°♌13'43	1.43543 AU
retrograde	11050 May 09 07:44	11°♌01'25			11051 Mar 09 17:44	0°♌	
evening set	11050 May 13 07:31	9°♌29'48		evening rise	11051 Mar 14 01:19	6°♌47'32	
inferior conj	11050 May 18 14:32	3°♌24'39	3°13'29		11051 Mar 29 13:25	0°♌	
minimum elong	11050 May 18 13:45	3°♌27'19	3°12'53	evening max el	11051 Apr 14 06:15	20°♌10'18	21°33'13
min. Earth dist.	11050 May 19 08:24	2°♌23'30	0.67996 AU	asc. node	11051 Apr 21 02:33	25°♌05'22	
	11050 May 21 03:54	30°♌♊		retrograde	11051 Apr 23 06:03	25°♌27'41	
morning rise	11050 May 23 19:42	27°♌05'48		evening set	11051 Apr 27 16:07	23°♌40'29	
direct	11050 May 29 09:59	24°♌36'43		inferior conj	11051 May 02 22:49	17°♌24'24	2°59'13
desc. node	11050 Jun 06 22:26	28°♌45'58		minimum elong	11051 May 02 21:14	17°♌29'58	2°58'32
	11050 Jun 08 07:21	0°♌		min. Earth dist.	11051 May 03 03:26	17°♌08'19	0.68570 AU
morning max el	11050 Jun 09 17:45	1°♌24'03	24°21'25	morning rise	11051 May 08 02:08	11°♌10'05	
	11050 Jul 01 09:19	0°♌		direct	11051 May 13 03:20	8°♌58'26	
morning set	11050 Jul 15 09:33	22°♌48'00		morning max el	11051 May 23 04:08	14°♌55'05	22°51'28
max. Earth dist.	11050 Jul 19 01:02	29°♌14'53	1.37823 AU	desc. node	11051 May 24 19:21	16°♌37'56	
	11050 Jul 19 11:02	0°♌			11051 Jun 04 10:31	0°♌	
					11051 Jun 24 08:24	0°♌	
superior conj	11050 Jul 26 02:57	12°♌26'02	-0°47'07	morning set	11051 Jun 26 10:16	3°♌24'12	
minimum elong	11050 Jul 26 06:05	12°♌41'10	0°47'04	max. Earth dist.	11051 Jun 30 22:09	10°♌57'24	1.40132 AU
asc. node	11050 Jul 31 04:33	22°♌20'52					
evening rise	11050 Aug 03 19:58	29°♌35'19		superior conj	11051 Jul 08 17:11	24°♌43'17	-1°20'24
	11050 Aug 04 00:57	0°♌		minimum elong	11051 Jul 08 22:41	25°♌08'20	1°20'12
evening max el	11050 Aug 20 09:51	26°♌40'25	19°10'09		11051 Jul 11 13:59	0°♌	

asc. node	11051 Jul 18 01:25	12° Ω 14'19		superior conj	11052 Jun 19 11:21	6° \mathfrak{D} 06'01	-1°49'40
evening rise	11051 Jul 18 12:49	13° Ω 08'36		minimum elong	11052 Jun 19 17:55	6° \mathfrak{D} 34'20	1°49'41
	11051 Jul 27 20:18	0° \mathfrak{M}		evening rise	11052 Jun 30 16:57	26° \mathfrak{D} 05'29	
evening max el	11051 Aug 03 13:15	8° \mathfrak{M} 56'24	18°28'38		11052 Jul 02 20:41	0° Ω	
retrograde	11051 Aug 11 06:32	12° \mathfrak{M} 48'51		asc. node	11052 Jul 03 22:20	1° Ω 55'40	
evening set	11051 Aug 13 08:11	12° \mathfrak{M} 33'00		evening max el	11052 Jul 16 23:39	21° Ω 46'35	18°07'24
desc. node	11051 Aug 20 17:56	8° \mathfrak{M} 15'46		retrograde	11052 Jul 23 19:45	25° Ω 15'30	
inferior conj	11051 Aug 21 01:09	8° \mathfrak{M} 01'35	-0°05'33	evening set	11052 Jul 26 05:02	24° Ω 50'24	
minimum elong	11051 Aug 21 00:55	8° \mathfrak{M} 02'01	0°05'45	inferior conj	11052 Aug 02 03:31	19° Ω 58'10	1°18'25
transit middle	11051 Aug 21 00:55	8° \mathfrak{M} 02'01	0°05'45	minimum elong	11052 Aug 02 05:45	19° Ω 53'00	1°17'12
transit begin	11051 Aug 20 21:35	8° \mathfrak{M} 08'36		min. Earth dist.	11052 Aug 05 10:09	16° Ω 58'53	0.60112 AU
transit end	11051 Aug 21 04:16	7° \mathfrak{M} 55'26		desc. node	11052 Aug 06 15:13	15° Ω 57'48	
min. Earth dist.	11051 Aug 24 08:31	5° \mathfrak{M} 26'09	0.57896 AU	morning rise	11052 Aug 09 03:30	14° Ω 09'42	
morning rise	11051 Aug 28 14:08	2° \mathfrak{M} 43'06		direct	11052 Aug 15 15:43	12° Ω 07'50	
direct	11051 Sep 03 14:55	1° \mathfrak{M} 09'53		morning max el	11052 Aug 29 23:22	20° Ω 01'17	27°48'03
morning max el	11051 Sep 17 23:01	8° \mathfrak{M} 46'48	27°01'35		11052 Sep 07 12:31	0° \mathfrak{M}	
	11051 Oct 04 01:29	0° \mathfrak{L}			11052 Sep 25 22:30	0° \mathfrak{L}	
asc. node	11051 Oct 14 02:13	18° \mathfrak{L} 13'21		asc. node	11052 Sep 29 22:58	7° \mathfrak{L} 59'42	
morning set	11051 Oct 18 01:40	26° \mathfrak{L} 26'12		morning set	11052 Oct 01 07:03	10° \mathfrak{L} 45'51	
	11051 Oct 19 17:30	0° \mathfrak{M}		max. Earth dist.	11052 Oct 07 10:36	24° \mathfrak{L} 03'11	1.31476 AU
superior conj	11051 Oct 24 23:39	11° \mathfrak{M} 36'26	1°28'58	superior conj	11052 Oct 08 10:57	26° \mathfrak{L} 18'10	1°15'19
minimum elong	11051 Oct 24 21:53	11° \mathfrak{M} 26'34	1°29'11	minimum elong	11052 Oct 08 08:45	26° \mathfrak{L} 05'56	1°15'15
max. Earth dist.	11051 Oct 25 01:41	11° \mathfrak{M} 47'45	1.31450 AU		11052 Oct 10 02:51	0° \mathfrak{M}	
evening rise	11051 Oct 31 18:54	26° \mathfrak{M} 31'22		evening rise	11052 Oct 15 04:06	11° \mathfrak{M} 05'34	
	11051 Nov 02 10:36	0° \mathfrak{X}			11052 Oct 24 16:23	0° \mathfrak{X}	
desc. node	11051 Nov 16 15:21	25° \mathfrak{X} 52'30		desc. node	11052 Nov 02 12:34	14° \mathfrak{X} 12'08	
	11051 Nov 19 09:11	0° \mathfrak{Z}		evening max el	11052 Nov 11 20:48	25° \mathfrak{X} 17'20	25°44'38
evening max el	11051 Dec 01 00:54	14° \mathfrak{Z} 05'36	26°52'25		11052 Nov 17 23:54	0° \mathfrak{Z}	
retrograde	11051 Dec 14 23:18	21° \mathfrak{Z} 14'42		retrograde	11052 Nov 25 18:11	2° \mathfrak{Z} 18'07	
evening set	11051 Dec 21 18:19	19° \mathfrak{Z} 17'16		evening set	11052 Dec 01 22:05	0° \mathfrak{Z} 49'51	
min. Earth dist.	11051 Dec 25 15:17	16° \mathfrak{Z} 38'42	0.59878 AU		11052 Dec 03 12:58	30° \mathfrak{R} 1'	
inferior conj	11051 Dec 28 19:23	14° \mathfrak{Z} 05'11	-3°48'07	min. Earth dist.	11052 Dec 06 09:14	28° \mathfrak{X} 13'25	0.57805 AU
minimum elong	11051 Dec 29 02:54	13° \mathfrak{Z} 49'57	3°45'03	inferior conj	11052 Dec 09 09:26	26° \mathfrak{X} 07'12	-4°57'26
morning rise	11052 Jan 05 14:13	9° \mathfrak{Z} 22'33		minimum elong	11052 Dec 09 17:18	25° \mathfrak{X} 53'23	4°55'03
direct	11052 Jan 07 16:55	9° \mathfrak{Z} 05'45		morning rise	11052 Dec 17 14:57	21° \mathfrak{X} 47'12	
asc. node	11052 Jan 10 02:01	9° \mathfrak{Z} 28'01		direct	11052 Dec 19 20:18	21° \mathfrak{X} 31'44	
morning max el	11052 Jan 15 06:27	12° \mathfrak{Z} 51'15	18°07'50	asc. node	11052 Dec 26 23:06	24° \mathfrak{X} 22'14	
	11052 Jan 26 18:43	0° \mathfrak{A}		morning max el	11052 Dec 28 11:49	25° \mathfrak{X} 43'31	18°47'27
morning set	11052 Jan 30 21:56	7° \mathfrak{A} 39'18			11053 Jan 01 04:25	0° \mathfrak{Z}	
superior conj	11052 Feb 09 15:04	25° \mathfrak{A} 34'27	0°23'03	morning set	11053 Jan 13 18:57	21° \mathfrak{Z} 54'42	
minimum elong	11052 Feb 09 16:50	25° \mathfrak{A} 42'22	0°23'11		11053 Jan 17 22:13	0° \mathfrak{A}	
	11052 Feb 12 02:59	0° \mathfrak{X}		superior conj	11053 Jan 22 09:28	8° \mathfrak{A} 35'02	0°53'26
desc. node	11052 Feb 12 15:00	0° \mathfrak{X} 52'36		minimum elong	11053 Jan 22 12:26	8° \mathfrak{A} 49'03	0°53'32
max. Earth dist.	11052 Feb 17 06:04	8° \mathfrak{X} 48'24	1.41683 AU	desc. node	11053 Jan 29 11:46	21° \mathfrak{A} 33'11	
evening rise	11052 Feb 22 08:25	17° \mathfrak{X} 11'55		max. Earth dist.	11053 Jan 29 13:43	21° \mathfrak{A} 41'47	1.39523 AU
	11052 Mar 01 12:48	0° \mathfrak{Y}		evening rise	11053 Feb 02 12:34	28° \mathfrak{A} 31'35	
	11052 Mar 23 07:39	0° \mathfrak{B}			11053 Feb 03 09:33	0° \mathfrak{X}	
evening max el	11052 Mar 26 23:01	3° \mathfrak{B} 57'15	22°51'49		11053 Feb 23 00:24	0° \mathfrak{Y}	
retrograde	11052 Apr 06 02:18	9° \mathfrak{B} 56'33		evening max el	11053 Mar 09 13:07	17° \mathfrak{Y} 46'19	24°12'09
asc. node	11052 Apr 06 23:49	9° \mathfrak{B} 52'42		retrograde	11053 Mar 20 19:15	24° \mathfrak{Y} 22'34	
evening set	11052 Apr 10 23:38	7° \mathfrak{B} 54'29		asc. node	11053 Mar 24 21:06	23° \mathfrak{Y} 05'59	
inferior conj	11052 Apr 16 08:03	1° \mathfrak{B} 30'06	2°34'54	evening set	11053 Mar 26 04:30	22° \mathfrak{Y} 07'09	
minimum elong	11052 Apr 16 05:59	1° \mathfrak{B} 37'20	2°34'07	min. Earth dist.	11053 Mar 30 20:15	16° \mathfrak{Y} 45'44	0.68370 AU
min. Earth dist.	11052 Apr 16 00:08	1° \mathfrak{B} 57'37	0.68692 AU	inferior conj	11053 Mar 31 16:19	15° \mathfrak{Y} 37'57	2°01'00
	11052 Apr 17 10:15	30° \mathfrak{R} 1'		minimum elong	11053 Mar 31 14:10	15° \mathfrak{Y} 45'14	2°00'14
morning rise	11052 Apr 21 12:12	25° \mathfrak{Y} 21'48		morning rise	11053 Apr 05 23:55	9° \mathfrak{Y} 36'52	
direct	11052 Apr 26 00:03	23° \mathfrak{Y} 31'03		direct	11053 Apr 09 22:49	8° \mathfrak{Y} 07'56	
morning max el	11052 May 04 18:29	28° \mathfrak{Y} 35'34	21°25'43	morning max el	11053 Apr 17 15:49	12° \mathfrak{Y} 28'06	20°10'33
	11052 May 06 03:00	0° \mathfrak{B}		desc. node	11053 Apr 27 12:56	24° \mathfrak{Y} 43'48	
desc. node	11052 May 10 16:11	5° \mathfrak{B} 22'01			11053 May 01 05:31	0° \mathfrak{B}	
	11052 May 28 01:34	0° \mathfrak{I}		morning set	11053 May 15 11:12	21° \mathfrak{B} 24'34	
morning set	11052 Jun 05 08:42	12° \mathfrak{I} 49'30			11053 May 20 23:42	0° \mathfrak{I}	
max. Earth dist.	11052 Jun 12 00:41	23° \mathfrak{I} 34'02	1.42303 AU	max. Earth dist.	11053 May 25 10:27	7° \mathfrak{I} 02'44	1.44063 AU
	11052 Jun 15 21:28	0° \mathfrak{D}		superior conj	11053 May 31 05:46	16° \mathfrak{I} 26'35	-2°09'05

minimum elong	11053 May 31 09:53	16° Π 43'29	2°09'32	superior conj	11054 May 11 01:18	25° \mathcal{B} 50'19	-2°11'59
	11053 Jun 08 08:21	0° \mathfrak{D}		minimum elong	11054 May 10 22:38	25° \mathcal{B} 39'44	2°12'25
evening rise	11053 Jun 13 03:36	8° \mathfrak{D} 14'35			11054 May 13 16:13	0° Π	
asc. node	11053 Jun 20 19:18	21° \mathfrak{D} 19'43		evening rise	11054 May 25 16:05	19° Π 25'21	
	11053 Jun 26 09:34	0° Ω			11054 Jun 01 02:44	0° \mathfrak{D}	
evening max el	11053 Jun 30 13:13	5° Ω 01'16	18°05'29	asc. node	11054 Jun 07 16:21	10° \mathfrak{D} 19'23	
retrograde	11053 Jul 06 23:15	8° Ω 21'46		evening max el	11054 Jun 14 02:39	18° \mathfrak{D} 31'15	18°22'02
evening set	11053 Jul 09 16:27	7° Ω 44'36		retrograde	11054 Jun 20 12:25	21° \mathfrak{D} 57'11	
inferior conj	11053 Jul 15 23:46	2° Ω 33'26	2°17'12	evening set	11054 Jun 23 13:33	21° \mathfrak{D} 05'58	
minimum elong	11053 Jul 16 02:29	2° Ω 26'19	2°15'56	inferior conj	11054 Jun 29 09:41	15° \mathfrak{D} 37'51	2°53'55
	11053 Jul 18 10:18	30° \mathcal{R} \mathfrak{D}		minimum elong	11054 Jun 29 11:44	15° \mathfrak{D} 31'51	2°52'56
min. Earth dist.	11053 Jul 18 20:59	29° \mathfrak{D} 32'59	0.62369 AU	min. Earth dist.	11054 Jul 01 17:17	12° \mathfrak{D} 56'11	0.64439 AU
morning rise	11053 Jul 22 10:28	26° \mathfrak{D} 25'15		morning rise	11054 Jul 05 08:41	9° \mathfrak{D} 19'35	
desc. node	11053 Jul 24 12:26	25° \mathfrak{D} 08'24		desc. node	11054 Jul 11 09:37	6° \mathfrak{D} 40'41	
direct	11053 Jul 29 03:11	23° \mathfrak{D} 59'43		direct	11054 Jul 11 23:36	6° \mathfrak{D} 39'32	
	11053 Aug 10 02:35	0° Ω		morning max el	11054 Jul 25 16:01	14° \mathfrak{D} 39'50	27°27'24
morning max el	11053 Aug 12 05:59	2° Ω 02'00	27°55'52		11054 Aug 07 03:31	0° Ω	
	11053 Sep 01 20:25	0° \mathfrak{M}			11054 Aug 25 12:46	0° \mathfrak{M}	
morning set	11053 Sep 15 06:33	24° \mathfrak{M} 46'22		morning set	11054 Aug 29 21:35	8° \mathfrak{M} 20'12	
asc. node	11053 Sep 16 19:42	27° \mathfrak{M} 57'21		max. Earth dist.	11054 Sep 03 13:39	17° \mathfrak{M} 46'33	1.33037 AU
	11053 Sep 17 19:12	0° \mathfrak{L}		asc. node	11054 Sep 03 16:27	18° \mathfrak{M} 01'07	
max. Earth dist.	11053 Sep 20 15:56	6° \mathfrak{L} 06'24	1.32003 AU				
				superior conj	11054 Sep 07 00:58	25° \mathfrak{M} 05'44	0°32'31
superior conj	11053 Sep 22 20:04	10° \mathfrak{L} 50'07	0°56'25	minimum elong	11054 Sep 06 23:27	24° \mathfrak{M} 57'38	0°32'05
minimum elong	11053 Sep 22 17:55	10° \mathfrak{L} 38'20	0°56'06		11054 Sep 09 07:45	0° \mathfrak{L}	
evening rise	11053 Sep 29 15:16	25° \mathfrak{L} 42'56		evening rise	11054 Sep 14 02:28	10° \mathfrak{L} 17'18	
	11053 Oct 01 15:40	0° \mathfrak{M}			11054 Sep 24 04:33	0° \mathfrak{M}	
	11053 Oct 19 05:41	0° \mathcal{A}		evening max el	11054 Oct 05 19:58	15° \mathfrak{M} 48'09	22°31'22
desc. node	11053 Oct 20 09:49	1° \mathcal{A} 26'05		desc. node	11054 Oct 07 07:07	17° \mathfrak{M} 09'30	
evening max el	11053 Oct 24 09:02	5° \mathcal{A} 42'33	24°12'16	retrograde	11054 Oct 18 20:06	22° \mathfrak{M} 16'28	
retrograde	11053 Nov 07 01:10	12° \mathcal{A} 33'08		evening set	11054 Oct 22 08:57	21° \mathfrak{M} 48'59	
evening set	11053 Nov 12 01:33	11° \mathcal{A} 37'48		min. Earth dist.	11054 Oct 30 03:23	18° \mathfrak{M} 20'38	0.54893 AU
min. Earth dist.	11053 Nov 17 19:51	8° \mathcal{A} 44'28	0.56042 AU	inferior conj	11054 Oct 31 02:35	17° \mathfrak{M} 47'44	-5°39'59
inferior conj	11053 Nov 20 02:52	7° \mathcal{A} 19'58	-5°41'56	minimum elong	11054 Oct 30 22:01	17° \mathfrak{M} 54'14	5°39'09
minimum elong	11053 Nov 20 06:32	7° \mathcal{A} 14'20	5°41'05	morning rise	11054 Nov 08 12:39	14° \mathfrak{M} 00'07	
morning rise	11053 Nov 28 13:35	3° \mathcal{A} 21'03		direct	11054 Nov 11 18:34	13° \mathfrak{M} 36'11	
direct	11053 Dec 01 04:02	3° \mathcal{A} 03'24		morning max el	11054 Nov 23 09:53	19° \mathfrak{M} 06'29	21°14'05
morning max el	11053 Dec 11 05:42	7° \mathcal{A} 50'44	19°49'34	asc. node	11054 Nov 30 17:05	27° \mathfrak{M} 59'20	
asc. node	11053 Dec 13 20:07	10° \mathcal{A} 38'06			11054 Dec 02 00:42	0° \mathcal{A}	
	11053 Dec 25 17:27	0° \mathfrak{B}		morning set	11054 Dec 13 08:04	21° \mathcal{A} 11'40	
morning set	11053 Dec 28 23:14	6° \mathfrak{B} 28'07			11054 Dec 17 12:42	0° \mathfrak{B}	
superior conj	11054 Jan 05 18:49	22° \mathfrak{B} 16'56	1°15'49	superior conj	11054 Dec 20 14:58	6° \mathfrak{B} 28'01	1°30'30
minimum elong	11054 Jan 05 21:38	22° \mathfrak{B} 30'54	1°16'05	minimum elong	11054 Dec 20 16:54	6° \mathfrak{B} 38'03	1°30'58
	11054 Jan 09 17:53	0° \mathfrak{A}		max. Earth dist.	11054 Dec 25 05:41	15° \mathfrak{B} 49'22	1.35292 AU
max. Earth dist.	11054 Jan 11 19:55	3° \mathfrak{A} 56'06	1.37313 AU	evening rise	11054 Dec 29 07:38	23° \mathfrak{B} 42'05	
evening rise	11054 Jan 15 13:20	10° \mathfrak{A} 44'18			11055 Jan 01 17:51	0° \mathfrak{A}	
desc. node	11054 Jan 16 08:36	12° \mathfrak{A} 09'55		desc. node	11055 Jan 03 05:31	2° \mathfrak{A} 38'40	
	11054 Jan 27 02:03	0° \mathcal{H}			11055 Jan 20 17:28	0° \mathcal{H}	
	11054 Feb 18 12:24	0° \mathcal{Y}		evening max el	11055 Feb 02 15:50	15° \mathcal{H} 22'50	26°30'48
evening max el	11054 Feb 20 02:21	1° \mathcal{Y} 36'14	25°27'34	retrograde	11055 Feb 15 15:31	22° \mathcal{H} 42'15	
retrograde	11054 Mar 04 07:57	8° \mathcal{Y} 40'04		evening set	11055 Feb 21 23:55	20° \mathcal{H} 09'59	
evening set	11054 Mar 10 05:10	6° \mathcal{Y} 14'04		min. Earth dist.	11055 Feb 26 02:26	15° \mathcal{H} 57'52	0.66475 AU
asc. node	11054 Mar 11 18:23	4° \mathcal{Y} 46'01		asc. node	11055 Feb 26 15:39	15° \mathcal{H} 18'31	
min. Earth dist.	11054 Mar 14 13:43	1° \mathcal{Y} 27'40	0.67622 AU	inferior conj	11055 Feb 27 22:21	13° \mathcal{H} 45'49	0°24'53
inferior conj	11054 Mar 15 21:45	29° \mathcal{H} 44'33	1°17'40	minimum elong	11055 Feb 27 21:41	13° \mathcal{H} 47'48	0°24'51
minimum elong	11054 Mar 15 20:02	29° \mathcal{H} 50'05	1°17'07	morning rise	11055 Mar 05 20:27	8° \mathcal{H} 03'38	
	11054 Mar 15 16:58	30° \mathcal{R} \mathcal{H}		direct	11055 Mar 08 20:40	7° \mathcal{H} 12'54	
morning rise	11054 Mar 21 11:22	23° \mathcal{H} 52'02		morning max el	11055 Mar 15 08:51	10° \mathcal{H} 41'29	18°25'08
direct	11054 Mar 24 22:15	22° \mathcal{H} 43'35			11055 Mar 29 06:42	0° \mathcal{Y}	
morning max el	11054 Mar 31 20:59	26° \mathcal{H} 31'42	19°09'45	desc. node	11055 Apr 01 06:24	4° \mathcal{Y} 43'07	
	11054 Apr 04 00:14	0° \mathcal{Y}		morning set	11055 Apr 04 12:55	9° \mathcal{Y} 54'33	
greatest brilliancy	11054 Apr 13 21:52	13° \mathcal{Y} 48'58	-0.7m		11055 Apr 17 06:41	0° \mathcal{B}	
desc. node	11054 Apr 14 09:41	14° \mathcal{Y} 33'17					
	11054 Apr 24 11:50	0° \mathcal{B}		superior conj	11055 Apr 20 08:20	4° \mathcal{B} 48'04	-1°54'35
morning set	11054 Apr 24 13:24	0° \mathcal{B} 06'01		minimum elong	11055 Apr 19 23:33	4° \mathcal{B} 13'45	1°54'15
max. Earth dist.	11054 May 08 01:45	21° \mathcal{B} 08'15	1.45229 AU	max. Earth dist.	11055 Apr 20 20:31	5° \mathcal{B} 35'39	1.45687 AU

evening rise	11055 May 06 04:33	29° ♄ 37'35		desc. node	11056 Mar 18 03:06	25° ♄ 06'57	
	11055 May 06 10:14	0° ♄			11056 Mar 21 02:31	0° ♄	
greatest brilliancy	11055 May 15 21:22	14° ♄ 51'16	-0.8m				
asc. node	11055 May 25 13:27	28° ♄ 46'56		superior conj	11056 Mar 29 20:29	14° ♄ 05'51	-1°20'23
	11055 May 26 13:34	0° ♄		minimum elong	11056 Mar 29 12:00	13° ♄ 32'08	1°19'29
evening max el	11055 May 28 13:22	2° ♄ 10'38	18°56'11	max. Earth dist.	11056 Apr 02 16:29	20° ♄ 09'14	1.45401 AU
retrograde	11055 Jun 04 07:28	5° ♄ 54'44			11056 Apr 08 23:56	0° ♄	
evening set	11055 Jun 07 16:55	4° ♄ 48'09		evening rise	11056 Apr 14 21:58	9° ♄ 08'09	
	11055 Jun 12 11:56	30° ♄			11056 Apr 28 16:24	0° ♄	
inferior conj	11055 Jun 13 05:32	29° ♄ 04'38	3°12'35	greatest brilliancy	11056 Apr 29 03:17	0° ♄ 40'00	-0.6m
minimum elong	11055 Jun 13 06:29	29° ♄ 01'38	3°11'53	evening max el	11056 May 10 19:21	15° ♄ 53'46	19°46'37
min. Earth dist.	11055 Jun 14 22:12	26° ♄ 56'12	0.66169 AU	asc. node	11056 May 11 10:38	16° ♄ 31'14	
morning rise	11055 Jun 18 19:24	22° ♄ 43'11		retrograde	11056 May 18 05:29	20° ♄ 07'36	
direct	11055 Jun 25 03:24	19° ♄ 59'43		evening set	11056 May 21 23:53	18° ♄ 45'03	
desc. node	11055 Jun 28 06:44	20° ♄ 34'00		inferior conj	11056 May 27 08:10	12° ♄ 47'25	3°16'42
morning max el	11055 Jul 08 02:47	27° ♄ 43'20	26°29'31	minimum elong	11056 May 27 07:58	12° ♄ 48'03	3°16'06
	11055 Jul 10 06:25	0° ♄		min. Earth dist.	11056 May 28 10:05	11° ♄ 20'41	0.67468 AU
	11055 Jul 31 20:28	0° ♄		morning rise	11056 Jun 01 15:42	6° ♄ 27'03	
morning set	11055 Aug 13 00:58	21° ♄ 19'11		direct	11056 Jun 07 13:10	3° ♄ 50'24	
max. Earth dist.	11055 Aug 17 01:08	29° ♄ 02'17	1.34577 AU	desc. node	11056 Jun 14 03:47	6° ♄ 21'34	
	11055 Aug 17 12:49	0° ♄		morning max el	11056 Jun 19 12:49	11° ♄ 01'38	25°11'29
					11056 Jul 04 15:38	0° ♄	
superior conj	11055 Aug 21 23:19	8° ♄ 59'04	0°04'07		11056 Jul 23 12:36	0° ♄	
minimum elong	11055 Aug 21 23:07	8° ♄ 58'00	0°03'47	morning set	11056 Jul 25 12:36	3° ♄ 32'38	
behind sun begin	11055 Aug 21 17:23	8° ♄ 28'27		max. Earth dist.	11056 Jul 29 03:05	10° ♄ 07'20	1.36555 AU
behind sun end	11055 Aug 22 04:50	9° ♄ 27'36					
asc. node	11055 Aug 21 13:15	8° ♄ 07'08		superior conj	11056 Aug 04 12:12	22° ♄ 22'34	-0°27'49
evening rise	11055 Aug 29 11:48	24° ♄ 43'34		minimum elong	11056 Aug 04 13:58	22° ♄ 31'20	0°27'54
	11055 Sep 01 01:13	0° ♄		asc. node	11056 Aug 07 10:05	28° ♄ 11'39	
evening max el	11055 Sep 17 15:06	26° ♄ 11'52	20°58'27		11056 Aug 08 07:32	0° ♄	
	11055 Sep 22 10:42	0° ♄		evening rise	11056 Aug 12 17:01	8° ♄ 55'44	
desc. node	11055 Sep 24 04:28	0° ♄ 53'18			11056 Aug 24 04:46	0° ♄	
retrograde	11055 Sep 29 07:30	1° ♄ 59'38		evening max el	11056 Aug 29 23:42	7° ♄ 17'40	19°43'32
evening set	11055 Oct 01 15:54	1° ♄ 46'34		retrograde	11056 Sep 08 23:43	12° ♄ 15'58	
	11055 Oct 06 18:55	30° ♄		desc. node	11056 Sep 10 01:47	12° ♄ 12'41	
inferior conj	11055 Oct 10 18:35	27° ♄ 51'33	-4°40'12	evening set	11056 Sep 10 20:37	12° ♄ 06'19	
minimum elong	11055 Oct 10 08:45	28° ♄ 05'28	4°37'27	inferior conj	11056 Sep 19 17:16	8° ♄ 03'38	-2°57'35
min. Earth dist.	11055 Oct 11 11:00	27° ♄ 28'16	0.54612 AU	minimum elong	11056 Sep 19 09:26	8° ♄ 15'47	2°54'43
morning rise	11055 Oct 19 01:49	23° ♄ 57'22		min. Earth dist.	11056 Sep 21 20:57	6° ♄ 43'31	0.55276 AU
direct	11055 Oct 23 02:48	23° ♄ 22'17		morning rise	11056 Sep 27 20:28	3° ♄ 43'23	
morning max el	11055 Nov 05 02:05	29° ♄ 36'20	22°56'07	direct	11056 Oct 02 17:05	2° ♄ 51'19	
	11055 Nov 05 12:01	0° ♄		morning max el	11056 Oct 16 13:06	9° ♄ 43'32	24°43'33
asc. node	11055 Nov 17 14:00	16° ♄ 11'13			11056 Oct 31 15:19	0° ♄	
	11055 Nov 24 22:19	0° ♄		asc. node	11056 Nov 03 10:54	5° ♄ 01'22	
morning set	11055 Nov 27 19:17	5° ♄ 59'15		morning set	11056 Nov 11 07:08	20° ♄ 46'06	
					11056 Nov 15 12:56	0° ♄	
superior conj	11055 Dec 04 18:32	20° ♄ 58'32	1°38'05	superior conj	11056 Nov 18 02:58	5° ♄ 40'59	1°39'12
minimum elong	11055 Dec 04 19:19	21° ♄ 02'43	1°38'41	minimum elong	11056 Nov 18 02:36	5° ♄ 38'56	1°39'45
max. Earth dist.	11055 Dec 07 23:07	27° ♄ 43'41	1.33632 AU	max. Earth dist.	11056 Nov 20 00:35	9° ♄ 49'49	1.32412 AU
	11055 Dec 09 01:25	0° ♄		evening rise	11056 Nov 25 10:20	21° ♄ 15'12	
evening rise	11055 Dec 12 15:45	7° ♄ 15'13			11056 Nov 29 20:24	0° ♄	
desc. node	11055 Dec 21 02:30	22° ♄ 54'12		desc. node	11056 Dec 06 23:33	12° ♄ 50'29	
	11055 Dec 25 07:52	0° ♄			11056 Dec 18 06:36	0° ♄	
evening max el	11056 Jan 16 05:17	28° ♄ 56'51	27°14'25	evening max el	11056 Dec 28 16:57	12° ♄ 05'59	27°31'23
	11056 Jan 17 08:22	0° ♄		retrograde	11057 Jan 11 11:11	19° ♄ 26'22	
retrograde	11056 Jan 29 16:54	6° ♄ 20'30		evening set	11057 Jan 18 10:40	17° ♄ 00'03	
evening set	11056 Feb 05 10:35	3° ♄ 47'36		min. Earth dist.	11057 Jan 22 04:43	13° ♄ 50'41	0.63155 AU
	11056 Feb 09 11:16	30° ♄		inferior conj	11057 Jan 24 23:02	11° ♄ 06'49	-1°47'52
min. Earth dist.	11056 Feb 09 08:08	0° ♄ 08'27	0.64969 AU	minimum elong	11057 Jan 25 02:34	10° ♄ 58'03	1°45'56
inferior conj	11056 Feb 11 15:42	27° ♄ 35'29	-0°37'18	asc. node	11057 Jan 30 10:08	6° ♄ 33'47	
minimum elong	11056 Feb 11 16:48	27° ♄ 32'26	0°36'27	morning rise	11057 Jan 31 20:43	5° ♄ 53'13	
asc. node	11056 Feb 13 12:55	25° ♄ 34'24		direct	11057 Feb 03 04:53	5° ♄ 27'08	
morning rise	11056 Feb 18 00:38	22° ♄ 06'02		morning max el	11057 Feb 09 18:40	8° ♄ 49'32	17°46'55
direct	11056 Feb 20 15:50	21° ♄ 29'29			11057 Feb 23 21:35	0° ♄	
morning max el	11056 Feb 27 01:02	24° ♄ 49'55	17°57'21	morning set	11057 Feb 25 23:50	3° ♄ 37'58	
	11056 Mar 02 08:50	0° ♄		desc. node	11057 Mar 04 23:50	15° ♄ 40'29	
morning set	11056 Mar 15 17:32	21° ♄ 09'13					

superior conj	11057 Mar 10 04:43	24° H 22'50	-0°38'36	superior conj	11058 Feb 19 13:51	5° H 50'32	0°02'09
minimum elong	11057 Mar 10 00:43	24° H 06'20	0°37'53	minimum elong	11058 Feb 19 14:03	5° H 51'26	0°02'26
	11057 Mar 13 15:12	0° Y		behind sun begin	11058 Feb 19 05:53	5° H 15'56	
max. Earth dist.	11057 Mar 16 10:51	4° Y 32'04	1.44403 AU	behind sun end	11058 Feb 19 22:14	6° H 26'50	
evening rise	11057 Mar 25 09:30	18° Y 32'34		desc. node	11058 Feb 19 20:33	6° H 19'36	
	11057 Apr 01 22:43	0° B		max. Earth dist.	11058 Feb 27 01:04	18° H 27'06	1.42798 AU
evening max el	11057 Apr 23 19:38	29° B 37'47	20°51'06	evening rise	11058 Mar 05 06:11	28° H 27'02	
	11057 Apr 24 04:32	0° II			11058 Mar 06 05:51	0° Y	
asc. node	11057 Apr 28 07:51	3° II 19'00			11058 Mar 26 15:11	0° B	
retrograde	11057 May 02 04:15	4° II 30'28		evening max el	11058 Apr 06 14:33	13° B 22'36	22°06'02
evening set	11057 May 06 08:24	2° II 51'55		asc. node	11058 Apr 15 05:04	18° B 54'50	
	11057 May 09 03:20	30° R B		retrograde	11058 Apr 16 01:57	18° B 58'30	
inferior conj	11057 May 11 15:00	26° B 41'50	3°08'42	evening set	11058 Apr 20 16:44	17° B 04'37	
minimum elong	11057 May 11 13:50	26° B 45'51	3°08'04	inferior conj	11058 Apr 25 23:54	10° B 44'24	2°50'06
min. Earth dist.	11057 May 12 03:03	26° B 00'09	0.68302 AU	minimum elong	11058 Apr 25 22:04	10° B 50'50	2°49'22
morning rise	11057 May 16 19:04	20° B 24'58		min. Earth dist.	11058 Apr 25 23:02	10° B 47'28	0.68670 AU
direct	11057 May 22 03:53	18° B 02'53		morning rise	11058 May 01 03:15	4° B 32'32	
desc. node	11057 Jun 01 00:45	23° B 34'58		direct	11058 May 05 22:39	2° B 29'47	
morning max el	11057 Jun 01 22:34	24° B 28'49	23°43'12	morning max el	11058 May 15 10:24	8° B 04'10	22°14'10
	11057 Jun 06 21:18	0° II		desc. node	11058 May 18 21:38	11° B 51'10	
	11057 Jun 28 02:07	0° B			11058 Jun 01 11:25	0° II	
morning set	11057 Jul 07 03:31	14° B 47'57		morning set	11058 Jun 17 17:12	24° II 54'39	
max. Earth dist.	11057 Jul 11 00:28	21° B 29'54	1.38809 AU		11058 Jun 20 19:53	0° B	
	11057 Jul 15 17:55	0° Q		max. Earth dist.	11058 Jun 22 23:36	3° B 35'27	1.41082 AU
superior conj	11057 Jul 18 11:56	5° Q 06'51	-1°01'25	superior conj	11058 Jun 30 18:14	17° B 02'18	-1°33'35
minimum elong	11057 Jul 18 16:08	5° Q 26'33	1°01'16	minimum elong	11058 Jul 01 00:27	17° B 30'02	1°33'26
asc. node	11057 Jul 25 06:56	18° Q 10'25			11058 Jul 07 20:56	0° Q	
evening rise	11057 Jul 27 15:23	22° Q 46'05		evening rise	11058 Jul 11 03:26	6° Q 05'56	
	11057 Jul 31 09:23	0° H		asc. node	11058 Jul 12 03:49	7° Q 59'40	
evening max el	11057 Aug 12 21:07	19° H 09'25	18°49'49		11058 Jul 25 14:24	0° H	
retrograde	11057 Aug 21 07:53	23° H 22'49		evening max el	11058 Jul 27 03:58	1° H 41'28	18°17'08
evening set	11057 Aug 23 05:54	23° H 10'34		retrograde	11058 Aug 03 11:04	5° H 22'25	
desc. node	11057 Aug 27 23:07	21° H 10'29		evening set	11058 Aug 05 15:41	5° H 03'10	
inferior conj	11057 Aug 31 09:58	18° H 50'31	-1°04'38	inferior conj	11058 Aug 13 00:31	0° H 22'52	0°33'06
minimum elong	11057 Aug 31 07:15	18° H 55'24	1°03'45	minimum elong	11058 Aug 13 01:38	0° H 20'30	0°32'19
min. Earth dist.	11057 Sep 03 11:33	16° H 38'38	0.56765 AU		11058 Aug 13 11:19	30° R Q	
morning rise	11057 Sep 08 05:19	13° H 52'52		desc. node	11058 Aug 14 20:24	28° Q 49'45	
direct	11057 Sep 13 20:28	12° H 36'31		min. Earth dist.	11058 Aug 16 08:58	27° Q 34'20	0.58810 AU
morning max el	11057 Sep 28 02:48	19° H 59'37	26°18'52	morning rise	11058 Aug 20 08:08	24° Q 50'01	
	11057 Oct 06 16:28	0° A		direct	11058 Aug 26 14:22	23° Q 04'23	
asc. node	11057 Oct 21 07:44	24° A 19'06			11058 Sep 09 02:20	0° H	
	11057 Oct 24 03:39	0° M		morning max el	11058 Sep 09 23:16	0° H 50'04	27°25'55
morning set	11057 Oct 26 17:50	5° M 26'13			11058 Sep 30 20:19	0° A	
superior conj	11057 Nov 02 14:00	20° M 27'44	1°34'20	asc. node	11058 Oct 08 04:32	13° A 57'00	
minimum elong	11057 Nov 02 12:39	20° M 20'15	1°34'42	morning set	11058 Oct 11 01:43	19° A 55'02	
max. Earth dist.	11057 Nov 03 07:33	22° M 05'08	1.31662 AU		11058 Oct 15 17:22	0° M	
	11057 Nov 06 22:00	0° X		max. Earth dist.	11058 Oct 17 16:43	4° M 22'49	1.31401 AU
evening rise	11057 Nov 09 12:24	5° X 33'12		superior conj	11058 Oct 18 01:45	5° M 13'08	1°23'50
	11057 Nov 22 10:53	0° B		minimum elong	11058 Oct 17 23:45	5° M 01'58	1°23'55
desc. node	11057 Nov 23 20:39	2° B 18'30		evening rise	11058 Oct 24 19:36	20° M 03'11	
evening max el	11057 Dec 11 00:15	24° B 36'09	27°16'22		11058 Oct 29 15:15	0° X	
	11057 Dec 18 05:31	0° \approx		desc. node	11058 Nov 10 17:48	21° X 07'16	
retrograde	11057 Dec 24 21:42	1° \approx 50'03			11058 Nov 17 05:59	0° B	
	11057 Dec 31 06:44	30° R B		evening max el	11058 Nov 23 00:42	6° B 17'27	26°27'10
evening set	11057 Dec 31 20:53	29° B 39'01		retrograde	11058 Dec 06 23:11	13° B 23'48	
min. Earth dist.	11058 Jan 04 14:44	26° B 52'41	0.61107 AU	evening set	11058 Dec 13 13:10	11° B 37'41	
inferior conj	11058 Jan 07 17:03	24° B 10'43	-3°04'06	min. Earth dist.	11058 Dec 17 14:19	9° B 02'09	0.58976 AU
minimum elong	11058 Jan 07 23:18	23° B 57'03	3°01'13	inferior conj	11058 Dec 20 18:14	6° B 37'58	-4°19'21
morning rise	11058 Jan 15 04:25	19° B 16'17		minimum elong	11058 Dec 21 02:19	6° B 22'34	4°16'23
direct	11058 Jan 17 08:05	18° B 57'06		morning rise	11058 Dec 28 18:11	2° B 05'10	
asc. node	11058 Jan 17 07:19	18° B 57'07		direct	11058 Dec 30 21:09	1° B 49'29	
morning max el	11058 Jan 24 10:29	22° B 31'15	17°54'41	asc. node	11059 Jan 04 04:26	2° B 57'45	
	11058 Jan 30 06:06	0° \approx		morning max el	11059 Jan 07 20:51	5° B 45'01	18°22'04
morning set	11058 Feb 09 01:26	17° \approx 00'34			11059 Jan 23 04:00	0° \approx	
	11058 Feb 16 05:59	0° H		morning set	11059 Jan 23 16:38	1° \approx 00'15	

superior conj	11059 Feb 01 21:26	18° \approx 20'52	0°36'55	superior conj	11060 Jan 15 22:48	1° \approx 40'53	1°03'53
minimum elong	11059 Feb 01 23:55	18° \approx 32'15	0°36'59	minimum elong	11060 Jan 16 01:50	1° \approx 55'30	1°04'03
desc. node	11059 Feb 06 17:15	27° \approx 00'28		max. Earth dist.	11060 Jan 22 16:33	14° \approx 16'55	1.38574 AU
	11059 Feb 08 10:29	0° \mathbb{H}		desc. node	11060 Jan 24 14:04	17° \approx 40'09	
max. Earth dist.	11059 Feb 09 10:14	1° \mathbb{H} 42'08	1.40778 AU	evening rise	11060 Jan 26 11:15	20° \approx 57'50	
evening rise	11059 Feb 13 21:55	9° \mathbb{H} 13'53			11060 Jan 31 20:07	0° \mathbb{H}	
	11059 Feb 27 06:09	0° \mathbb{Y}			11060 Feb 21 06:55	0° \mathbb{Y}	
evening max el	11059 Mar 20 05:45	27° \mathbb{Y} 09'29	23°26'17	evening max el	11060 Mar 01 19:28	10° \mathbb{Y} 59'56	24°45'22
	11059 Mar 23 08:37	0° \mathbb{B}		retrograde	11060 Mar 13 12:18	17° \mathbb{Y} 49'11	
retrograde	11059 Mar 30 21:03	3° \mathbb{B} 26'15		asc. node	11060 Mar 18 23:36	15° \mathbb{Y} 35'24	
asc. node	11059 Apr 02 02:20	3° \mathbb{B} 02'53		evening set	11060 Mar 19 02:33	15° \mathbb{Y} 29'10	
evening set	11059 Apr 04 23:17	1° \mathbb{B} 18'19		min. Earth dist.	11060 Mar 23 15:11	10° \mathbb{Y} 22'27	0.68099 AU
	11059 Apr 06 07:51	30° \mathbb{R} \mathbb{Y}		inferior conj	11060 Mar 24 16:16	8° \mathbb{Y} 59'15	1°43'48
inferior conj	11059 Apr 10 08:56	24° \mathbb{Y} 51'10	2°21'41	minimum elong	11060 Mar 24 14:13	9° \mathbb{Y} 06'01	1°43'06
minimum elong	11059 Apr 10 06:46	24° \mathbb{Y} 58'38	2°20'54	morning rise	11060 Mar 30 02:05	3° \mathbb{Y} 01'20	
min. Earth dist.	11059 Apr 09 19:49	25° \mathbb{Y} 36'20	0.68596 AU	direct	11060 Apr 02 19:46	1° \mathbb{Y} 41'12	
morning rise	11059 Apr 15 14:13	18° \mathbb{Y} 45'34		morning max el	11060 Apr 10 04:00	5° \mathbb{Y} 46'13	19°42'44
direct	11059 Apr 19 20:22	17° \mathbb{Y} 04'12		desc. node	11060 Apr 21 15:11	20° \mathbb{Y} 27'06	
morning max el	11059 Apr 28 03:26	21° \mathbb{Y} 49'11	20°52'11	greatest brilliancy	11060 Apr 22 22:45	22° \mathbb{Y} 21'55	-0.6m
	11059 May 05 02:29	0° \mathbb{B}			11060 Apr 28 01:59	0° \mathbb{B}	
desc. node	11059 May 05 18:25	0° \mathbb{B} 52'29		morning set	11060 May 06 04:47	12° \mathbb{B} 21'46	
	11059 May 25 17:19	0° \mathbb{II}		max. Earth dist.	11060 May 17 16:41	0° \mathbb{II} 17'46	1.44642 AU
morning set	11059 May 28 05:29	3° \mathbb{II} 53'21			11060 May 17 12:12	0° \mathbb{II}	
max. Earth dist.	11059 Jun 05 04:32	16° \mathbb{II} 32'32	1.43105 AU				
				superior conj	11060 May 22 10:39	7° \mathbb{II} 52'59	-2°12'41
superior conj	11059 Jun 12 02:32	27° \mathbb{II} 58'35	-1°59'31	minimum elong	11060 May 22 12:17	7° \mathbb{II} 59'34	2°13'13
minimum elong	11059 Jun 12 08:37	28° \mathbb{II} 24'17	1°59'43		11060 Jun 04 19:46	0° \mathbb{B}	
	11059 Jun 13 07:14	0° \mathbb{B}		evening rise	11060 Jun 05 02:20	0° \mathbb{B} 27'43	
evening rise	11059 Jun 24 00:42	18° \mathbb{B} 43'23		asc. node	11060 Jun 14 21:44	16° \mathbb{B} 48'13	
asc. node	11059 Jun 29 00:45	27° \mathbb{B} 34'06		evening max el	11060 Jun 23 06:08	28° \mathbb{B} 05'18	18°10'24
	11059 Jun 30 10:28	0° \mathbb{Q}			11060 Jun 25 12:41	0° \mathbb{Q}	
evening max el	11059 Jul 10 16:12	14° \mathbb{Q} 43'15	18°04'21	retrograde	11060 Jun 29 14:46	1° \mathbb{Q} 26'06	
retrograde	11059 Jul 17 06:47	18° \mathbb{Q} 06'41		evening set	11060 Jul 02 11:26	0° \mathbb{Q} 43'00	
evening set	11059 Jul 19 19:24	17° \mathbb{Q} 36'50			11060 Jul 03 16:36	30° \mathbb{R} \mathbb{B}	
inferior conj	11059 Jul 26 11:00	12° \mathbb{Q} 36'39	1°46'13	inferior conj	11060 Jul 08 13:31	25° \mathbb{B} 24'31	2°35'13
minimum elong	11059 Jul 26 13:38	12° \mathbb{Q} 30'13	1°44'55	minimum elong	11060 Jul 08 16:03	25° \mathbb{B} 17'34	2°34'03
min. Earth dist.	11059 Jul 29 14:33	9° \mathbb{Q} 33'53	0.61083 AU	min. Earth dist.	11060 Jul 11 05:17	22° \mathbb{B} 30'02	0.63288 AU
desc. node	11059 Aug 01 17:40	6° \mathbb{Q} 58'24		morning rise	11060 Jul 14 19:00	19° \mathbb{B} 11'22	
morning rise	11059 Aug 02 05:14	6° \mathbb{Q} 38'31		desc. node	11060 Jul 18 14:52	17° \mathbb{B} 05'45	
direct	11059 Aug 08 20:22	4° \mathbb{Q} 25'16		direct	11060 Jul 21 11:51	16° \mathbb{B} 38'16	
morning max el	11059 Aug 23 02:26	12° \mathbb{Q} 24'08	27°55'57	morning max el	11060 Aug 04 10:35	24° \mathbb{B} 40'31	27°47'48
	11059 Sep 06 01:14	0° \mathbb{P}			11060 Aug 09 06:28	0° \mathbb{Q}	
	11059 Sep 23 04:25	0° \mathbb{A}			11060 Aug 29 11:45	0° \mathbb{P}	
morning set	11059 Sep 25 04:53	4° \mathbb{A} 07'14		morning set	11060 Sep 08 01:07	17° \mathbb{P} 56'55	
asc. node	11059 Sep 25 01:18	3° \mathbb{A} 48'42		asc. node	11060 Sep 10 22:03	23° \mathbb{P} 49'13	
max. Earth dist.	11059 Oct 01 00:22	16° \mathbb{A} 33'13	1.31637 AU	max. Earth dist.	11060 Sep 13 02:52	28° \mathbb{P} 27'07	1.32382 AU
					11060 Sep 13 20:17	0° \mathbb{A}	
superior conj	11059 Oct 02 12:23	19° \mathbb{A} 51'37	1°07'57				
minimum elong	11059 Oct 02 10:09	19° \mathbb{A} 39'13	1°07'45	superior conj	11060 Sep 15 20:01	4° \mathbb{A} 17'22	0°46'53
	11059 Oct 07 02:29	0° \mathbb{M}		minimum elong	11060 Sep 15 18:03	4° \mathbb{A} 06'43	0°46'30
evening rise	11059 Oct 09 05:52	4° \mathbb{M} 39'22		evening rise	11060 Sep 22 17:19	19° \mathbb{A} 16'13	
	11059 Oct 22 12:15	0° \mathbb{J}			11060 Sep 27 21:50	0° \mathbb{M}	
desc. node	11059 Oct 28 15:02	9° \mathbb{J} 01'42		desc. node	11060 Oct 14 12:19	25° \mathbb{M} 40'33	
evening max el	11059 Nov 04 17:08	17° \mathbb{J} 08'17	25°07'34	evening max el	11060 Oct 16 04:00	27° \mathbb{M} 21'42	23°29'23
retrograde	11059 Nov 18 13:33	24° \mathbb{J} 05'32			11060 Oct 19 04:58	0° \mathbb{J}	
evening set	11059 Nov 24 06:54	22° \mathbb{J} 51'33		retrograde	11060 Oct 29 14:49	4° \mathbb{J} 04'00	
min. Earth dist.	11059 Nov 29 05:09	20° \mathbb{J} 09'58	0.56997 AU	evening set	11060 Nov 03 00:28	3° \mathbb{J} 21'53	
inferior conj	11059 Dec 01 23:39	18° \mathbb{J} 20'06	-5°20'38	min. Earth dist.	11060 Nov 09 13:58	0° \mathbb{J} 15'47	0.55465 AU
minimum elong	11059 Dec 02 06:24	18° \mathbb{J} 08'55	5°18'55		11060 Nov 10 00:47	30° \mathbb{R} \mathbb{M}	
morning rise	11059 Dec 10 08:09	14° \mathbb{J} 09'20		inferior conj	11060 Nov 11 08:54	29° \mathbb{M} 12'41	-5°47'55
direct	11059 Dec 12 16:20	13° \mathbb{J} 53'28		minimum elong	11060 Nov 11 09:16	29° \mathbb{M} 12'09	5°47'24
morning max el	11059 Dec 21 21:49	18° \mathbb{J} 19'52	19°11'00	morning rise	11060 Nov 19 19:50	25° \mathbb{M} 20'04	
asc. node	11059 Dec 22 01:31	18° \mathbb{J} 28'51		direct	11060 Nov 22 16:28	25° \mathbb{M} 00'05	
	11059 Dec 30 12:15	0° \mathbb{Z}			11060 Dec 03 07:44	0° \mathbb{J}	
morning set	11060 Jan 07 17:11	15° \mathbb{Z} 24'50		morning max el	11060 Dec 03 09:54	0° \mathbb{J} 05'06	20°22'50
	11060 Jan 15 01:59	0° \approx		asc. node	11060 Dec 07 22:32	5° \mathbb{J} 14'27	
				morning set	11060 Dec 21 23:45	0° \mathbb{Z} 03'44	

	11060 Dec 21 23:01	0°♄			11061 Nov 28 22:19	0°♄	
			morning set		11061 Dec 06 09:53	14°♄50'02	
superior conj	11060 Dec 29 13:14	15°♄36'27	1°22'56				
minimum elong	11060 Dec 29 15:44	15°♄49'07	1°23'18	superior conj	11061 Dec 13 12:56	29°♄57'01	1°34'31
max. Earth dist.	11061 Jan 04 00:08	26°♄21'34	1.36426 AU	minimum elong	11061 Dec 13 14:24	0°♄04'42	1°35'05
	11061 Jan 05 22:19	0°♄			11061 Dec 13 13:30	0°♄	
evening rise	11061 Jan 07 19:59	3°♄31'07		max. Earth dist.	11061 Dec 17 13:09	8°♄14'15	1.34542 AU
desc. node	11061 Jan 10 10:57	8°♄13'59		evening rise	11061 Dec 21 20:37	16°♄44'50	
	11061 Jan 23 19:59	0°♄		desc. node	11061 Dec 28 07:53	28°♄37'34	
evening max el	11061 Feb 12 08:59	24°♄49'49	25°56'22		11061 Dec 29 02:48	0°♄	
	11061 Feb 18 18:49	0°♄			11062 Jan 18 06:00	0°♄	
retrograde	11061 Feb 24 22:43	2°♄00'47		evening max el	11062 Jan 25 22:27	8°♄31'41	26°52'00
	11061 Mar 02 10:33	30°♄		retrograde	11062 Feb 08 03:36	15°♄53'46	
evening set	11061 Mar 03 00:55	29°♄31'40		evening set	11062 Feb 14 16:29	13°♄20'10	
asc. node	11061 Mar 05 20:53	26°♄41'38		min. Earth dist.	11062 Feb 18 16:42	9°♄22'37	0.65887 AU
min. Earth dist.	11061 Mar 07 06:52	24°♄59'59	0.67189 AU	inferior conj	11062 Feb 20 17:42	7°♄00'29	-0°00'23
inferior conj	11061 Mar 08 19:54	23°♄03'57	0°56'28	minimum elong	11062 Feb 20 17:42	7°♄00'29	0°00'05
minimum elong	11061 Mar 08 18:33	23°♄08'12	0°56'05	transit middle	11062 Feb 20 17:42	7°♄00'29	0°00'05
morning rise	11061 Mar 14 12:49	17°♄15'32		transit begin	11062 Feb 20 14:45	7°♄09'06	
direct	11061 Mar 17 19:06	16°♄14'50		transit end	11062 Feb 20 20:40	6°♄51'53	
morning max el	11061 Mar 24 12:12	19°♄52'44	18°48'43	asc. node	11062 Feb 20 18:10	6°♄59'08	
	11061 Apr 01 13:18	0°♄		morning rise	11062 Feb 26 20:10	1°♄23'39	
desc. node	11061 Apr 08 11:56	10°♄25'44		direct	11062 Mar 01 16:23	0°♄39'24	
morning set	11061 Apr 15 14:05	21°♄26'15		morning max el	11062 Mar 08 02:17	4°♄02'50	18°11'13
	11061 Apr 21 01:53	0°♄			11062 Mar 25 22:18	0°♄	
max. Earth dist.	11061 Apr 30 10:20	14°♄36'15	1.45519 AU	desc. node	11062 Mar 26 08:40	0°♄41'47	
			morning set		11062 Mar 27 01:50	1°♄51'02	
superior conj	11061 May 01 22:56	16°♄59'44	-2°07'03				
minimum elong	11061 May 01 17:07	16°♄36'53	2°07'13	superior conj	11062 Apr 11 05:46	25°♄59'15	-1°41'37
	11061 May 10 04:33	0°♄		minimum elong	11062 Apr 10 20:18	25°♄22'04	1°40'58
evening rise	11061 May 17 04:29	11°♄12'28		max. Earth dist.	11062 Apr 13 06:08	29°♄08'39	1.45656 AU
	11061 May 28 23:25	0°♄			11062 Apr 13 19:16	0°♄	
asc. node	11061 Jun 01 18:48	5°♄34'58		evening rise	11062 Apr 27 07:43	21°♄03'18	
evening max el	11061 Jun 06 18:42	11°♄39'42	18°34'30		11062 May 03 01:58	0°♄	
retrograde	11061 Jun 13 06:53	15°♄11'43		greatest brilliancy	11062 May 09 02:50	9°♄15'15	-0.7m
evening set	11061 Jun 16 11:35	14°♄13'53		asc. node	11062 May 19 15:55	23°♄44'59	
inferior conj	11061 Jun 22 04:04	8°♄38'50	3°03'50	evening max el	11062 May 21 03:28	25°♄20'05	19°15'45
minimum elong	11061 Jun 22 05:40	8°♄33'57	3°02'59	retrograde	11062 May 28 03:36	29°♄15'56	
min. Earth dist.	11061 Jun 24 05:14	6°♄10'14	0.65220 AU	evening set	11062 May 31 16:45	28°♄02'33	
morning rise	11061 Jun 27 22:51	2°♄18'41		inferior conj	11062 Jun 06 03:07	22°♄12'35	3°15'59
	11061 Jul 01 22:15	30°♄		minimum elong	11062 Jun 06 03:34	22°♄11'06	3°15'20
direct	11061 Jul 04 11:19	29°♄36'12		min. Earth dist.	11062 Jun 07 13:21	20°♄21'18	0.66768 AU
desc. node	11061 Jul 05 12:02	29°♄39'51		morning rise	11062 Jun 11 13:55	15°♄51'02	
	11061 Jul 07 03:25	0°♄		direct	11062 Jun 17 17:36	13°♄09'32	
morning max el	11061 Jul 17 21:15	7°♄30'36	27°06'02	desc. node	11062 Jun 22 09:08	14°♄24'37	
	11061 Aug 04 06:42	0°♄		morning max el	11062 Jun 30 08:00	20°♄41'44	25°58'21
	11061 Aug 21 19:38	0°♄			11062 Jul 08 08:21	0°♄	
morning set	11061 Aug 22 11:40	1°♄17'03			11062 Jul 28 10:44	0°♄	
max. Earth dist.	11061 Aug 26 20:45	9°♄57'56	1.33633 AU	morning set	11062 Aug 05 08:53	13°♄57'34	
asc. node	11061 Aug 28 18:50	13°♄54'24		max. Earth dist.	11062 Aug 09 04:01	21°♄06'41	1.35366 AU
					11062 Aug 13 16:21	0°♄	
superior conj	11061 Aug 30 22:29	18°♄24'27	0°20'59				
minimum elong	11061 Aug 30 21:26	18°♄18'54	0°20'35	superior conj	11062 Aug 14 17:07	2°♄05'07	-0°09'06
	11061 Sep 05 09:02	0°♄		minimum elong	11062 Aug 14 17:40	2°♄07'56	0°09'20
evening rise	11061 Sep 07 04:02	3°♄48'17		behind sun begin	11062 Aug 14 12:40	1°♄42'34	
	11061 Sep 21 11:58	0°♄		behind sun end	11062 Aug 14 22:40	2°♄33'20	
evening max el	11061 Sep 27 17:20	7°♄30'39	21°50'05	asc. node	11062 Aug 15 15:36	3°♄59'37	
desc. node	11061 Oct 01 09:38	10°♄37'12		evening rise	11062 Aug 22 11:52	18°♄08'43	
retrograde	11061 Oct 10 05:26	13°♄43'53			11062 Aug 28 10:50	0°♄	
evening set	11061 Oct 13 04:43	13°♄24'01		evening max el	11062 Sep 09 17:43	18°♄09'20	20°24'06
inferior conj	11061 Oct 22 03:44	9°♄26'45	-5°21'31	desc. node	11062 Sep 18 06:58	23°♄21'17	
minimum elong	11061 Oct 21 20:06	9°♄37'25	5°19'54	retrograde	11062 Sep 20 17:41	23°♄37'04	
min. Earth dist.	11061 Oct 21 20:50	9°♄36'24	0.54662 AU	evening set	11062 Sep 22 18:54	23°♄26'30	
morning rise	11061 Oct 30 12:46	5°♄39'20		inferior conj	11062 Oct 01 20:46	19°♄29'33	-4°00'09
direct	11061 Nov 03 02:38	5°♄11'20		minimum elong	11062 Oct 01 11:02	19°♄43'47	3°57'00
morning max el	11061 Nov 15 08:27	10°♄59'42	21°55'51	min. Earth dist.	11062 Oct 03 05:16	18°♄42'03	0.54775 AU
asc. node	11061 Nov 24 19:30	22°♄58'57		morning rise	11062 Oct 10 02:33	15°♄26'13	

direct	11062 Oct 14 11:32	14°♄45'00		min. Earth dist.	11063 Sep 14 17:12	28°♄09'46	0.55820 AU
morning max el	11062 Oct 27 21:37	21°♄16'29	23°42'09	morning rise	11063 Sep 20 02:25	25°♄17'33	
	11062 Nov 04 09:45	0°♄		direct	11063 Sep 25 07:17	24°♄15'42	
asc. node	11062 Nov 11 16:25	11°♄27'58			11063 Oct 07 20:27	0°♄	
morning set	11062 Nov 20 21:35	29°♄37'40		morning max el	11063 Oct 09 08:54	1°♄22'56	25°26'38
	11062 Nov 21 01:46	0°♄			11063 Oct 29 06:52	0°♄	
				asc. node	11063 Oct 29 13:16	0°♄30'18	
superior conj	11062 Nov 27 18:53	14°♄33'28	1°39'18	morning set	11063 Nov 05 09:06	14°♄21'32	
minimum elong	11062 Nov 27 19:10	14°♄34'58	1°39'54				
max. Earth dist.	11062 Nov 30 09:55	20°♄11'47	1.33053 AU	superior conj	11063 Nov 12 04:39	29°♄18'10	1°37'51
evening rise	11062 Dec 05 09:32	0°♄29'59		minimum elong	11063 Nov 12 03:50	29°♄13'39	1°38'20
	11062 Dec 05 03:34	0°♄			11063 Nov 12 12:14	0°♄	
desc. node	11062 Dec 15 04:54	18°♄45'32		max. Earth dist.	11063 Nov 13 13:50	2°♄20'51	1.32029 AU
	11062 Dec 22 03:04	0°♄		evening rise	11063 Nov 19 07:35	14°♄38'11	
evening max el	11063 Jan 08 11:11	21°♄55'57	27°25'08		11063 Nov 27 04:45	0°♄	
retrograde	11063 Jan 22 02:20	29°♄19'43		desc. node	11063 Dec 02 01:57	8°♄30'36	
evening set	11063 Jan 28 23:03	26°♄48'19			11063 Dec 17 06:46	0°♄	
min. Earth dist.	11063 Feb 01 18:42	23°♄22'34	0.64232 AU	evening max el	11063 Dec 21 21:21	4°♄50'12	27°29'16
inferior conj	11063 Feb 04 07:11	20°♄43'12	-1°06'19	retrograde	11064 Jan 04 17:43	12°♄08'36	
minimum elong	11063 Feb 04 09:15	20°♄37'45	1°05'01	evening set	11064 Jan 11 17:44	9°♄47'48	
asc. node	11063 Feb 07 15:26	17°♄26'48		min. Earth dist.	11064 Jan 15 11:08	6°♄49'05	0.62299 AU
morning rise	11063 Feb 10 21:22	15°♄20'24		inferior conj	11064 Jan 18 09:18	4°♄04'11	-2°19'50
direct	11063 Feb 13 09:13	14°♄48'53		minimum elong	11064 Jan 18 14:00	3°♄53'07	2°17'25
morning max el	11063 Feb 19 19:33	18°♄09'04	17°50'44		11064 Jan 23 08:45	30°♄	
	11063 Feb 28 13:09	0°♄		morning rise	11064 Jan 25 12:46	28°♄58'14	
morning set	11063 Mar 08 18:07	13°♄39'32		asc. node	11064 Jan 25 12:39	28°♄58'20	
desc. node	11063 Mar 13 05:22	21°♄10'15		direct	11064 Jan 27 18:31	28°♄35'38	
	11063 Mar 18 13:32	0°♄			11064 Feb 01 01:14	0°♄	
				morning max el	11064 Feb 03 12:50	2°♄02'15	17°47'51
superior conj	11063 Mar 22 01:20	5°♄39'54	-1°03'01	morning set	11064 Feb 19 09:27	26°♄33'41	
minimum elong	11063 Mar 21 18:33	5°♄12'34	1°02'06		11064 Feb 21 08:03	0°♄	
max. Earth dist.	11063 Mar 27 01:20	13°♄38'21	1.45053 AU	desc. node	11064 Feb 28 02:03	11°♄46'22	
evening rise	11063 Apr 06 20:43	0°♄26'21					
	11063 Apr 06 13:51	0°♄		superior conj	11064 Mar 01 20:07	16°♄26'57	-0°20'50
greatest brilliancy	11063 Apr 21 16:54	22°♄43'35	-0.6m	minimum elong	11064 Mar 01 18:06	16°♄18'28	0°20'18
	11063 Apr 26 20:27	0°♄		max. Earth dist.	11064 Mar 08 17:48	27°♄49'52	1.43787 AU
evening max el	11063 May 04 07:01	9°♄03'42	20°12'31		11064 Mar 10 02:10	0°♄	
asc. node	11063 May 06 13:07	11°♄07'11		evening rise	11064 Mar 16 10:29	9°♄59'48	
retrograde	11063 May 12 02:15	13°♄33'38			11064 Mar 29 17:53	0°♄	
evening set	11063 May 16 00:35	12°♄04'26		evening max el	11064 Apr 16 04:58	22°♄48'11	21°22'01
inferior conj	11063 May 21 07:51	6°♄01'14	3°14'40	asc. node	11064 Apr 22 10:21	27°♄26'16	
minimum elong	11063 May 21 07:13	6°♄03'23	3°14'05	retrograde	11064 Apr 25 00:41	27°♄58'54	
min. Earth dist.	11063 May 22 03:48	4°♄53'17	0.67875 AU	evening set	11064 Apr 29 09:12	26°♄13'56	
	11063 May 26 05:44	30°♄		inferior conj	11064 May 04 15:49	19°♄59'26	3°01'59
morning rise	11063 May 26 13:32	29°♄41'51		minimum elong	11064 May 04 14:19	20°♄04'37	3°01'20
direct	11063 Jun 01 05:45	27°♄10'28		min. Earth dist.	11064 May 04 22:21	19°♄36'41	0.68520 AU
	11063 Jun 08 03:30	0°♄		morning rise	11064 May 09 19:14	13°♄44'27	
desc. node	11063 Jun 09 06:07	0°♄51'50		direct	11064 May 14 22:28	11°♄29'53	
morning max el	11063 Jun 12 17:47	4°♄04'33	24°34'32	morning max el	11064 May 25 03:49	17°♄34'03	23°04'45
	11063 Jul 02 14:45	0°♄		desc. node	11064 May 26 03:02	18°♄34'01	
morning set	11063 Jul 18 12:18	25°♄47'44			11064 Jun 04 11:47	0°♄	
	11063 Jul 20 21:15	0°♄			11064 Jun 24 16:29	0°♄	
max. Earth dist.	11063 Jul 22 02:48	2°♄13'17	1.37490 AU	morning set	11064 Jun 28 16:49	6°♄34'12	
				max. Earth dist.	11064 Jul 02 23:45	13°♄49'43	1.39794 AU
superior conj	11063 Jul 29 00:50	15°♄12'33	-0°42'01				
minimum elong	11063 Jul 29 03:37	15°♄25'59	0°42'00	superior conj	11064 Jul 10 17:42	27°♄37'13	-1°15'29
asc. node	11063 Aug 02 12:25	24°♄01'42		minimum elong	11064 Jul 10 22:52	28°♄01'01	1°15'18
	11063 Aug 05 12:06	0°♄			11064 Jul 12 00:38	0°♄	
evening rise	11063 Aug 06 14:30	2°♄11'51		asc. node	11064 Jul 19 09:17	13°♄56'45	
evening max el	11063 Aug 23 08:05	29°♄34'39	19°18'07	evening rise	11064 Jul 20 08:53	15°♄49'51	
	11063 Aug 23 18:31	0°♄			11064 Jul 28 00:44	0°♄	
retrograde	11063 Sep 01 15:27	4°♄12'25		evening max el	11064 Aug 05 10:05	11°♄44'48	18°33'27
evening set	11063 Sep 03 11:38	4°♄02'20		retrograde	11064 Aug 13 07:27	15°♄42'07	
desc. node	11063 Sep 05 04:17	3°♄36'19		evening set	11064 Aug 15 08:07	15°♄27'17	
	11063 Sep 11 22:07	30°♄		desc. node	11064 Aug 22 01:33	11°♄49'02	
inferior conj	11063 Sep 12 02:05	29°♄53'28	-2°09'02	inferior conj	11064 Aug 23 03:58	10°♄58'47	-0°20'25
minimum elong	11063 Sep 11 20:23	0°♄02'52	2°06'54	minimum elong	11064 Aug 23 03:09	11°♄00'20	0°20'21

min. Earth dist.	11064 Aug 26 10:18	8° \mathbb{M} 28'56	0.57590 AU	morning rise	11065 Aug 12 05:23	17° Ω 04'30	
morning rise	11064 Aug 30 18:43	5° \mathbb{M} 45'40		direct	11065 Aug 18 16:12	15° Ω 06'51	
direct	11064 Sep 05 17:13	4° \mathbb{M} 16'54		morning max el	11065 Sep 02 00:23	22° Ω 58'28	27°43'38
morning max el	11064 Sep 20 00:55	11° \mathbb{M} 50'11	26°51'37		11065 Sep 08 06:41	0° \mathbb{M}	
	11064 Oct 04 04:54	0° $\underline{\Omega}$			11065 Sep 27 08:33	0° $\underline{\Omega}$	
asc. node	11064 Oct 15 10:05	19° $\underline{\Omega}$ 57'20		asc. node	11065 Oct 02 06:51	9° $\underline{\Omega}$ 41'38	
morning set	11064 Oct 19 18:48	28° $\underline{\Omega}$ 57'15		morning set	11065 Oct 04 00:54	13° $\underline{\Omega}$ 19'24	
	11064 Oct 20 06:33	0° \mathbb{M}		max. Earth dist.	11065 Oct 10 07:24	26° $\underline{\Omega}$ 55'10	1.31441 AU
superior conj	11064 Oct 26 16:12	14° \mathbb{M} 05'01	1°30'34	superior conj	11065 Oct 11 03:40	28° $\underline{\Omega}$ 47'42	1°17'45
minimum elong	11064 Oct 26 14:32	13° \mathbb{M} 55'43	1°30'49	minimum elong	11065 Oct 11 01:30	28° $\underline{\Omega}$ 35'40	1°17'42
max. Earth dist.	11064 Oct 26 22:13	14° \mathbb{M} 38'28	1.31489 AU		11065 Oct 11 16:40	0° \mathbb{M}	
evening rise	11064 Nov 02 12:08	29° \mathbb{M} 02'22		evening rise	11065 Oct 17 20:53	13° \mathbb{M} 35'30	
	11064 Nov 02 23:02	0° \mathbb{M}			11065 Oct 26 00:33	0° \mathbb{M}	
desc. node	11064 Nov 17 23:04	27° \mathbb{M} 43'36		desc. node	11065 Nov 04 20:15	16° \mathbb{M} 11'14	
	11064 Nov 19 10:21	0° \mathbb{M}		evening max el	11065 Nov 14 23:23	28° \mathbb{M} 20'43	25°56'31
evening max el	11064 Dec 03 02:20	17° \mathbb{M} 01'47	26°59'46		11065 Nov 16 19:41	0° \mathbb{M}	
retrograde	11064 Dec 17 00:26	24° \mathbb{M} 11'49		retrograde	11065 Nov 28 21:02	5° \mathbb{M} 22'56	
evening set	11064 Dec 23 20:53	22° \mathbb{M} 10'41		evening set	11065 Dec 05 04:01	3° \mathbb{M} 49'44	
min. Earth dist.	11064 Dec 27 16:47	19° \mathbb{M} 30'32	0.60198 AU	min. Earth dist.	11065 Dec 09 12:01	1° \mathbb{M} 14'12	0.58102 AU
inferior conj	11064 Dec 30 20:39	16° \mathbb{M} 54'22	-3°36'42		11065 Dec 11 05:55	30° \mathbb{M}	
minimum elong	11064 Dec 31 03:53	16° \mathbb{M} 39'25	3°33'38	inferior conj	11065 Dec 12 13:38	29° \mathbb{M} 02'49	-4°48'03
morning rise	11065 Jan 07 13:36	12° \mathbb{M} 08'31		minimum elong	11065 Dec 12 21:41	28° \mathbb{M} 48'22	4°45'29
direct	11065 Jan 09 16:28	11° \mathbb{M} 51'10		morning rise	11065 Dec 20 17:53	24° \mathbb{M} 39'35	
asc. node	11065 Jan 11 09:47	12° \mathbb{M} 03'05		direct	11065 Dec 22 22:27	24° \mathbb{M} 24'09	
morning max el	11065 Jan 17 02:46	15° \mathbb{M} 33'21	18°03'46	asc. node	11065 Dec 29 06:53	26° \mathbb{M} 43'15	
	11065 Jan 27 02:55	0° \mathbb{M}		morning max el	11065 Dec 31 09:32	28° \mathbb{M} 31'17	18°40'14
morning set	11065 Feb 01 17:33	10° \mathbb{M} 14'39			11066 Jan 01 19:28	0° \mathbb{M}	
superior conj	11065 Feb 11 15:22	28° \mathbb{M} 22'59	0°17'47	morning set	11066 Jan 16 13:11	24° \mathbb{M} 26'10	
minimum elong	11065 Feb 11 16:48	28° \mathbb{M} 29'18	0°17'55		11066 Jan 19 09:50	0° \mathbb{M}	
	11065 Feb 12 13:18	0° \mathbb{M}		superior conj	11066 Jan 25 07:09	11° \mathbb{M} 16'11	0°49'20
desc. node	11065 Feb 13 22:48	2° \mathbb{M} 26'50		minimum elong	11066 Jan 25 10:03	11° \mathbb{M} 29'43	0°49'24
max. Earth dist.	11065 Feb 19 06:17	11° \mathbb{M} 30'44	1.41989 AU	desc. node	11066 Jan 31 19:35	23° \mathbb{M} 07'38	
evening rise	11065 Feb 24 14:42	20° \mathbb{M} 15'52		max. Earth dist.	11066 Feb 01 14:18	24° \mathbb{M} 29'47	1.39851 AU
	11065 Mar 02 19:45	0° \mathbb{M}			11066 Feb 04 19:02	0° \mathbb{M}	
	11065 Mar 24 02:43	0° \mathbb{M}		evening rise	11066 Feb 05 15:37	1° \mathbb{M} 26'55	
evening max el	11065 Mar 29 22:13	6° \mathbb{M} 34'17	22°39'48		11066 Feb 24 03:35	0° \mathbb{M}	
retrograde	11065 Apr 08 21:18	12° \mathbb{M} 27'24		evening max el	11066 Mar 12 12:32	20° \mathbb{M} 22'48	24°00'21
asc. node	11065 Apr 09 07:35	12° \mathbb{M} 26'31		retrograde	11066 Mar 23 14:54	26° \mathbb{M} 54'26	
evening set	11065 Apr 13 16:57	10° \mathbb{M} 27'21		asc. node	11066 Mar 27 04:50	25° \mathbb{M} 54'50	
inferior conj	11065 Apr 19 01:00	4° \mathbb{M} 03'58	2°39'10	evening set	11066 Mar 28 22:21	24° \mathbb{M} 40'46	
minimum elong	11065 Apr 18 22:58	4° \mathbb{M} 11'02	2°38'25	min. Earth dist.	11066 Apr 02 15:14	19° \mathbb{M} 14'05	0.68442 AU
min. Earth dist.	11065 Apr 18 18:52	4° \mathbb{M} 25'18	0.68705 AU	inferior conj	11066 Apr 03 09:34	18° \mathbb{M} 11'54	2°06'47
	11065 Apr 22 03:20	30° \mathbb{M}		minimum elong	11066 Apr 03 07:23	18° \mathbb{M} 19'17	2°06'00
morning rise	11065 Apr 24 04:52	27° \mathbb{M} 54'47		morning rise	11066 Apr 08 16:29	12° \mathbb{M} 09'39	
direct	11065 Apr 28 18:41	26° \mathbb{M} 00'56		direct	11066 Apr 12 17:12	10° \mathbb{M} 37'36	
	11065 May 06 11:00	0° \mathbb{M}		morning max el	11066 Apr 20 13:42	15° \mathbb{M} 03'54	20°20'55
morning max el	11065 May 07 17:25	1° \mathbb{M} 12'45	21°37'56	desc. node	11066 Apr 29 20:44	26° \mathbb{M} 28'00	
desc. node	11065 May 12 23:54	7° \mathbb{M} 10'57			11066 May 02 09:10	0° \mathbb{M}	
	11065 May 29 07:41	0° \mathbb{M}		morning set	11066 May 18 23:40	24° \mathbb{M} 49'38	
morning set	11065 Jun 08 19:05	16° \mathbb{M} 09'34			11066 May 22 07:33	0° \mathbb{M}	
max. Earth dist.	11065 Jun 15 01:31	26° \mathbb{M} 18'51	1.41998 AU	max. Earth dist.	11066 May 28 10:08	9° \mathbb{M} 40'08	1.43833 AU
	11065 Jun 17 06:40	0° \mathbb{M}		superior conj	11066 Jun 03 13:12	19° \mathbb{M} 38'17	-2°07'04
superior conj	11065 Jun 22 15:07	9° \mathbb{M} 08'24	-1°45'43	minimum elong	11066 Jun 03 18:00	19° \mathbb{M} 58'06	2°07'27
minimum elong	11065 Jun 22 21:42	9° \mathbb{M} 37'00	1°45'41		11066 Jun 09 17:26	0° \mathbb{M}	
evening rise	11065 Jul 03 15:13	28° \mathbb{M} 52'55		evening rise	11066 Jun 16 04:50	11° \mathbb{M} 09'56	
	11065 Jul 04 05:53	0° Ω		asc. node	11066 Jun 23 03:09	23° \mathbb{M} 07'08	
asc. node	11065 Jul 06 06:11	3° Ω 40'11			11066 Jun 27 09:33	0° Ω	
evening max el	11065 Jul 19 19:41	24° Ω 30'24	18°09'18	evening max el	11066 Jul 03 09:02	7° Ω 41'55	18°04'36
retrograde	11065 Jul 26 18:18	28° Ω 02'05		retrograde	11066 Jul 09 20:00	11° Ω 02'52	
evening set	11065 Jul 29 02:21	27° Ω 38'36		evening set	11066 Jul 12 11:57	10° Ω 27'44	
inferior conj	11065 Aug 05 03:24	22° Ω 49'17	1°07'16	inferior conj	11066 Jul 18 21:19	5° Ω 19'22	2°09'45
minimum elong	11065 Aug 05 05:25	22° Ω 44'45	1°06'09	minimum elong	11066 Jul 19 00:03	5° Ω 12'19	2°08'27
min. Earth dist.	11065 Aug 08 10:45	19° Ω 52'08	0.59768 AU	min. Earth dist.	11066 Jul 21 20:19	2° Ω 17'35	0.62038 AU
desc. node	11065 Aug 08 22:50	19° Ω 26'43			11066 Jul 24 09:18	30° \mathbb{M}	

morning rise	11066 Jul 25 09:54	29° \mathfrak{D} 13'21		min. Earth dist.	11067 Jul 04 15:16	15° \mathfrak{D} 34'05	0.64154 AU
desc. node	11066 Jul 26 20:06	28° \mathfrak{D} 18'51		morning rise	11067 Jul 08 06:03	12° \mathfrak{D} 02'30	
direct	11066 Aug 01 02:22	26° \mathfrak{D} 50'42		desc. node	11067 Jul 13 17:19	9° \mathfrak{D} 28'32	
	11066 Aug 09 13:07	0° \mathfrak{Q}		direct	11067 Jul 14 21:41	9° \mathfrak{D} 23'47	
morning max el	11066 Aug 15 06:18	4° \mathfrak{Q} 52'43	27°57'03	morning max el	11067 Jul 28 15:54	17° \mathfrak{D} 25'09	27°33'36
	11066 Sep 03 02:19	0° \mathfrak{P}			11067 Aug 08 03:38	0° \mathfrak{Q}	
morning set	11066 Sep 18 01:26	27° \mathfrak{P} 22'58			11067 Aug 26 22:51	0° \mathfrak{P}	
asc. node	11066 Sep 19 03:37	29° \mathfrak{P} 37'49		morning set	11067 Sep 01 17:55	11° \mathfrak{P} 01'06	
	11066 Sep 19 07:54	0° \mathfrak{L}		asc. node	11067 Sep 06 00:24	19° \mathfrak{P} 40'50	
max. Earth dist.	11066 Sep 23 13:26	9° \mathfrak{L} 00'04	1.31891 AU	max. Earth dist.	11067 Sep 06 12:24	20° \mathfrak{P} 43'22	1.32849 AU
superior conj	11066 Sep 25 13:15	13° \mathfrak{L} 21'14	0°59'37	superior conj	11067 Sep 09 18:58	27° \mathfrak{P} 39'43	0°36'26
minimum elong	11066 Sep 25 11:04	13° \mathfrak{L} 09'11	0°59'20	minimum elong	11067 Sep 09 17:18	27° \mathfrak{P} 30'50	0°36'02
evening rise	11066 Oct 02 07:53	28° \mathfrak{L} 12'20			11067 Sep 10 21:02	0° \mathfrak{L}	
	11066 Oct 03 03:59	0° \mathfrak{M}		evening rise	11067 Sep 16 19:13	12° \mathfrak{L} 47'27	
	11066 Oct 19 23:11	0° \mathfrak{X}			11067 Sep 25 10:38	0° \mathfrak{M}	
desc. node	11066 Oct 22 17:29	3° \mathfrak{X} 36'12		evening max el	11067 Oct 08 23:10	18° \mathfrak{M} 58'07	22°46'20
evening max el	11066 Oct 27 12:28	8° \mathfrak{X} 51'16	24°26'58	desc. node	11067 Oct 09 14:47	19° \mathfrak{M} 35'16	
retrograde	11066 Nov 10 06:05	15° \mathfrak{X} 44'07		retrograde	11067 Oct 22 02:40	25° \mathfrak{M} 30'36	
evening set	11066 Nov 15 11:11	14° \mathfrak{X} 43'59		evening set	11067 Oct 25 20:46	24° \mathfrak{M} 59'49	
min. Earth dist.	11066 Nov 20 23:39	11° \mathfrak{X} 54'12	0.56270 AU	min. Earth dist.	11067 Nov 02 07:33	21° \mathfrak{M} 37'42	0.55011 AU
inferior conj	11066 Nov 23 10:07	10° \mathfrak{X} 22'45	-5°37'43	inferior conj	11067 Nov 03 12:08	20° \mathfrak{M} 56'54	-5°44'04
minimum elong	11066 Nov 23 14:46	10° \mathfrak{X} 15'28	5°36'40	minimum elong	11067 Nov 03 08:50	21° \mathfrak{M} 01'38	5°43'23
morning rise	11066 Dec 01 20:29	6° \mathfrak{X} 21'01		morning rise	11067 Nov 11 22:30	17° \mathfrak{M} 08'23	
direct	11066 Dec 04 09:01	6° \mathfrak{X} 04'01		direct	11067 Nov 15 01:52	16° \mathfrak{M} 45'36	
morning max el	11066 Dec 14 05:24	10° \mathfrak{X} 45'44	19°38'53	morning max el	11067 Nov 26 11:40	22° \mathfrak{M} 09'31	21°00'10
asc. node	11066 Dec 16 03:57	12° \mathfrak{X} 47'37		asc. node	11067 Dec 03 00:58	0° \mathfrak{X} 00'25	
	11066 Dec 27 03:30	0° \mathfrak{Z}			11067 Dec 03 00:51	0° \mathfrak{X}	
morning set	11066 Dec 31 16:34	8° \mathfrak{Z} 57'08		morning set	11067 Dec 16 00:54	23° \mathfrak{X} 39'57	
					11067 Dec 19 01:39	0° \mathfrak{Z}	
superior conj	11067 Jan 08 14:34	24° \mathfrak{Z} 52'30	1°12'54	superior conj	11067 Dec 23 09:21	9° \mathfrak{Z} 00'11	1°28'42
minimum elong	11067 Jan 08 17:28	25° \mathfrak{Z} 06'48	1°13'09	minimum elong	11067 Dec 23 11:27	9° \mathfrak{Z} 10'59	1°29'10
	11067 Jan 11 05:42	0° \mathfrak{A}			11067 Dec 23 11:27	9° \mathfrak{Z} 10'59	1°29'10
max. Earth dist.	11067 Jan 14 20:11	6° \mathfrak{A} 47'52	1.37631 AU	max. Earth dist.	11067 Dec 28 05:16	18° \mathfrak{Z} 43'43	1.35575 AU
evening rise	11067 Jan 18 13:30	13° \mathfrak{A} 32'08		evening rise	11068 Jan 01 05:29	26° \mathfrak{Z} 24'20	
desc. node	11067 Jan 18 16:25	13° \mathfrak{A} 45'04			11068 Jan 03 04:17	0° \mathfrak{A}	
	11067 Jan 28 09:18	0° \mathfrak{H}		desc. node	11068 Jan 05 13:18	4° \mathfrak{A} 15'23	
	11067 Feb 19 02:35	0° \mathfrak{Y}			11068 Jan 21 19:28	0° \mathfrak{H}	
evening max el	11067 Feb 23 01:48	4° \mathfrak{Y} 12'45	25°17'00	evening max el	11068 Feb 05 15:23	18° \mathfrak{H} 00'53	26°22'28
retrograde	11067 Mar 07 04:23	11° \mathfrak{Y} 13'31		retrograde	11068 Feb 18 12:44	25° \mathfrak{H} 18'25	
evening set	11067 Mar 12 23:47	8° \mathfrak{Y} 48'58		evening set	11068 Feb 24 19:31	22° \mathfrak{H} 46'54	
asc. node	11067 Mar 14 02:08	7° \mathfrak{Y} 48'14		asc. node	11068 Feb 28 23:25	18° \mathfrak{H} 28'12	
min. Earth dist.	11067 Mar 17 09:20	3° \mathfrak{Y} 57'16	0.67754 AU	min. Earth dist.	11068 Feb 28 22:56	18° \mathfrak{H} 29'39	0.66672 AU
inferior conj	11067 Mar 18 15:34	2° \mathfrak{Y} 19'04	1°24'56	inferior conj	11068 Mar 01 17:02	16° \mathfrak{H} 21'36	0°33'34
minimum elong	11067 Mar 18 13:45	2° \mathfrak{Y} 24'59	1°24'19	minimum elong	11068 Mar 01 16:10	16° \mathfrak{H} 24'14	0°33'25
	11067 Mar 20 11:33	30° \mathfrak{R} \mathfrak{H}		morning rise	11068 Mar 07 13:42	10° \mathfrak{H} 37'35	
morning rise	11067 Mar 24 04:07	26° \mathfrak{H} 25'03		direct	11068 Mar 10 15:27	9° \mathfrak{H} 44'20	
direct	11067 Mar 27 16:41	25° \mathfrak{H} 13'42		morning max el	11068 Mar 17 04:39	13° \mathfrak{H} 15'02	18°30'42
morning max el	11067 Apr 03 17:43	29° \mathfrak{H} 05'57	19°17'48		11068 Mar 29 12:43	0° \mathfrak{Y}	
	11067 Apr 04 14:54	0° \mathfrak{Y}		desc. node	11068 Apr 02 14:15	6° \mathfrak{Y} 21'05	
greatest brilliancy	11067 Apr 16 13:42	15° \mathfrak{Y} 59'45	-0.7m	morning set	11068 Apr 06 19:51	13° \mathfrak{Y} 01'43	
desc. node	11067 Apr 16 17:30	16° \mathfrak{Y} 13'54			11068 Apr 17 14:50	0° \mathfrak{B}	
	11067 Apr 25 18:59	0° \mathfrak{B}					
morning set	11067 Apr 28 00:23	3° \mathfrak{B} 25'35		superior conj	11068 Apr 22 19:41	8° \mathfrak{B} 08'11	-1°58'27
max. Earth dist.	11067 May 11 00:30	23° \mathfrak{B} 40'12	1.45099 AU	minimum elong	11068 Apr 22 11:28	7° \mathfrak{B} 36'04	1°58'16
				max. Earth dist.	11068 Apr 22 19:03	8° \mathfrak{B} 05'45	1.45671 AU
superior conj	11067 May 14 11:49	29° \mathfrak{B} 09'30	-2°12'49		11068 May 06 17:51	0° \mathfrak{I}	
minimum elong	11067 May 14 10:19	29° \mathfrak{B} 03'34	2°13'19	evening rise	11068 May 08 12:47	2° \mathfrak{I} 49'49	
	11067 May 15 00:31	0° \mathfrak{I}		greatest brilliancy	11068 May 17 10:10	16° \mathfrak{I} 52'42	-0.8m
evening rise	11067 May 28 20:51	22° \mathfrak{I} 29'37			11068 May 26 07:50	0° \mathfrak{D}	
	11067 Jun 02 09:40	0° \mathfrak{D}		asc. node	11068 May 26 21:15	0° \mathfrak{D} 43'41	
asc. node	11067 Jun 10 00:10	12° \mathfrak{D} 10'51		evening max el	11068 May 30 10:00	4° \mathfrak{D} 48'27	18°49'59
evening max el	11067 Jun 16 22:43	21° \mathfrak{D} 10'08	18°18'27	retrograde	11068 Jun 06 02:14	8° \mathfrak{D} 28'50	
retrograde	11067 Jun 23 07:55	24° \mathfrak{D} 34'17		evening set	11068 Jun 09 10:29	7° \mathfrak{D} 24'32	
evening set	11067 Jun 26 07:52	23° \mathfrak{D} 45'15		inferior conj	11068 Jun 15 00:00	1° \mathfrak{D} 43'13	3°10'44
inferior conj	11067 Jul 02 05:27	18° \mathfrak{D} 19'41	2°49'34	minimum elong	11068 Jun 15 01:08	1° \mathfrak{D} 39'41	3°09'59
minimum elong	11067 Jul 02 07:38	18° \mathfrak{D} 13'23	2°48'32		11068 Jun 16 08:56	30° \mathfrak{R} \mathfrak{I}	

min. Earth dist.	11068 Jun 16 18:53	29° Π 29'15	0.65942 AU	asc. node	11069 May 13 18:24	18° Π 35'20	
morning rise	11068 Jun 20 15:04	25° Π 22'02		retrograde	11069 May 21 00:00	22° Π 39'57	
direct	11068 Jun 27 00:24	22° Π 38'27		evening set	11069 May 24 17:03	21° Π 19'42	
desc. node	11068 Jun 29 14:28	23° Π 01'41		inferior conj	11069 May 30 01:46	15° Π 23'58	3°16'53
	11068 Jul 09 16:37	0° \mathfrak{C}		minimum elong	11069 May 30 01:45	15° Π 24'03	3°16'17
morning max el	11068 Jul 10 02:37	0° \mathfrak{C} 25'07	26°39'38	min. Earth dist.	11069 May 31 05:47	13° Π 50'51	0.67301 AU
	11068 Aug 01 03:15	0° Ω		morning rise	11069 Jun 04 10:05	9° Π 03'17	
morning set	11068 Aug 14 23:16	24° Ω 05'39		direct	11069 Jun 10 09:13	6° Π 25'14	
	11068 Aug 18 00:44	0° \mathfrak{M}		desc. node	11069 Jun 16 11:31	8° Π 34'00	
max. Earth dist.	11068 Aug 19 01:30	2° \mathfrak{M} 02'21	1.34318 AU	morning max el	11069 Jun 22 12:51	13° Π 42'07	25°24'05
asc. node	11068 Aug 22 21:10	9° \mathfrak{M} 46'36			11069 Jul 05 18:11	0° \mathfrak{C}	
					11069 Jul 24 22:06	0° Ω	
superior conj	11068 Aug 23 18:28	11° \mathfrak{M} 36'49	0°08'41	morning set	11069 Jul 28 13:33	6° Ω 26'52	
minimum elong	11068 Aug 23 18:01	11° \mathfrak{M} 34'27	0°08'20	max. Earth dist.	11069 Aug 01 04:54	13° Ω 08'47	1.36239 AU
behind sun begin	11068 Aug 23 13:01	11° \mathfrak{M} 08'31					
behind sun end	11068 Aug 23 23:01	12° \mathfrak{M} 00'25		superior conj	11069 Aug 07 08:58	25° Ω 05'23	-0°22'48
evening rise	11068 Aug 31 04:58	27° \mathfrak{M} 15'19		minimum elong	11069 Aug 07 10:24	25° Ω 12'32	0°22'56
	11068 Sep 01 12:37	0° \mathfrak{L}		asc. node	11069 Aug 09 17:57	29° Ω 51'32	
evening max el	11068 Sep 19 16:36	29° \mathfrak{L} 17'01	21°11'19		11069 Aug 09 19:37	0° \mathfrak{M}	
	11068 Sep 20 10:32	0° \mathfrak{M}		evening rise	11069 Aug 15 10:58	11° \mathfrak{M} 30'19	
desc. node	11068 Sep 25 12:06	3° \mathfrak{M} 39'10			11069 Aug 25 06:17	0° \mathfrak{L}	
retrograde	11068 Oct 01 14:23	5° \mathfrak{M} 11'38		evening max el	11069 Sep 01 23:00	10° \mathfrak{L} 15'30	19°53'19
evening set	11068 Oct 04 02:09	4° \mathfrak{M} 57'11		retrograde	11069 Sep 12 05:11	15° \mathfrak{L} 21'29	
inferior conj	11068 Oct 13 04:21	1° \mathfrak{M} 02'07	-4°52'42	desc. node	11069 Sep 12 09:26	15° \mathfrak{L} 21'24	
minimum elong	11068 Oct 12 18:50	1° \mathfrak{M} 15'30	4°50'13	evening set	11069 Sep 14 02:45	15° \mathfrak{L} 11'47	
min. Earth dist.	11068 Oct 13 14:48	0° \mathfrak{M} 47'26	0.54593 AU	inferior conj	11069 Sep 23 01:08	11° \mathfrak{L} 10'49	-3°14'33
	11068 Oct 15 00:50	30° \mathfrak{R} \mathfrak{L}		minimum elong	11069 Sep 22 16:40	11° \mathfrak{L} 23'45	3°11'32
morning rise	11068 Oct 21 12:04	27° \mathfrak{L} 10'30		min. Earth dist.	11069 Sep 25 00:11	9° \mathfrak{L} 59'09	0.55120 AU
direct	11068 Oct 25 10:15	26° \mathfrak{L} 37'22		morning rise	11069 Oct 01 05:07	6° \mathfrak{L} 55'30	
	11068 Nov 03 21:12	0° \mathfrak{M}		direct	11069 Oct 05 22:40	6° \mathfrak{L} 06'34	
morning max el	11068 Nov 07 05:14	2° \mathfrak{M} 44'48	22°40'13	morning max el	11069 Oct 19 16:32	12° \mathfrak{L} 53'25	24°27'54
asc. node	11068 Nov 18 21:55	18° \mathfrak{M} 05'36			11069 Nov 01 20:10	0° \mathfrak{M}	
	11068 Nov 25 09:23	0° \mathfrak{X}		asc. node	11069 Nov 05 18:48	6° \mathfrak{M} 50'30	
morning set	11068 Nov 29 11:54	8° \mathfrak{X} 27'26		morning set	11069 Nov 13 23:45	23° \mathfrak{M} 14'32	
					11069 Nov 17 02:36	0° \mathfrak{X}	
superior conj	11068 Dec 06 12:00	23° \mathfrak{X} 28'15	1°37'21	superior conj	11069 Nov 20 19:50	8° \mathfrak{X} 09'10	1°39'25
minimum elong	11068 Dec 06 12:57	23° \mathfrak{X} 33'22	1°37'56	minimum elong	11069 Nov 20 19:37	8° \mathfrak{X} 08'01	1°39'59
	11068 Dec 09 14:22	0° \mathfrak{Z}		max. Earth dist.	11069 Nov 22 21:55	12° \mathfrak{X} 41'25	1.32564 AU
max. Earth dist.	11068 Dec 09 21:37	0° \mathfrak{Z} 37'40	1.33855 AU	evening rise	11069 Nov 28 04:55	23° \mathfrak{X} 48'44	
evening rise	11068 Dec 14 11:45	9° \mathfrak{Z} 52'42			11069 Dec 01 07:34	0° \mathfrak{Z}	
desc. node	11068 Dec 22 10:13	24° \mathfrak{Z} 33'07		desc. node	11069 Dec 09 07:13	14° \mathfrak{Z} 32'26	
	11068 Dec 25 15:10	0° \mathfrak{A}			11069 Dec 19 06:20	0° \mathfrak{A}	
evening max el	11069 Jan 16 13:45	0° \mathfrak{X}		evening max el	11069 Dec 31 16:51	14° \mathfrak{A} 50'24	27°30'43
retrograde	11069 Jan 18 04:55	1° \mathfrak{X} 37'24	27°09'24	retrograde	11070 Jan 14 10:19	22° \mathfrak{A} 11'44	
evening set	11069 Jan 31 14:56	9° \mathfrak{X} 00'35		evening set	11070 Jan 21 09:19	19° \mathfrak{A} 43'44	
min. Earth dist.	11069 Feb 07 07:30	6° \mathfrak{X} 27'23		min. Earth dist.	11070 Jan 25 03:40	16° \mathfrak{A} 30'26	0.63445 AU
inferior conj	11069 Feb 11 05:45	2° \mathfrak{X} 43'30	0.65221 AU	inferior conj	11070 Jan 27 20:35	13° \mathfrak{A} 47'18	-1°36'46
minimum elong	11069 Feb 13 11:36	0° \mathfrak{X} 13'09	-0°27'16	minimum elong	11070 Jan 27 23:43	13° \mathfrak{A} 39'24	1°34'58
	11069 Feb 13 12:24	0° \mathfrak{X} 10'56	0°26'34	asc. node	11070 Feb 01 17:57	9° \mathfrak{A} 31'11	
	11069 Feb 13 16:18	30° \mathfrak{R} \mathfrak{A}		morning rise	11070 Feb 03 16:18	8° \mathfrak{A} 31'18	
asc. node	11069 Feb 14 20:42	28° \mathfrak{A} 42'14		direct	11070 Feb 06 01:22	8° \mathfrak{A} 03'55	
morning rise	11069 Feb 19 18:47	24° \mathfrak{A} 41'39		morning max el	11070 Feb 12 13:57	11° \mathfrak{A} 25'18	17°47'19
direct	11069 Feb 22 11:17	24° \mathfrak{A} 03'09			11070 Feb 25 06:00	0° \mathfrak{X}	
morning max el	11069 Feb 28 20:20	27° \mathfrak{A} 23'53	18°00'23	morning set	11070 Feb 28 22:55	6° \mathfrak{X} 22'13	
	11069 Mar 03 04:51	0° \mathfrak{X}		desc. node	11070 Mar 07 07:36	17° \mathfrak{X} 15'01	
morning set	11069 Mar 18 20:07	24° \mathfrak{X} 03'40		superior conj	11070 Mar 13 10:28	27° \mathfrak{X} 26'10	-0°45'01
desc. node	11069 Mar 20 10:56	26° \mathfrak{X} 42'57		minimum elong	11070 Mar 13 05:44	27° \mathfrak{X} 06'45	0°44'14
	11069 Mar 22 11:07	0° \mathfrak{Y}			11070 Mar 15 00:10	0° \mathfrak{Y}	
superior conj	11069 Apr 02 05:49	17° \mathfrak{Y} 19'29	-1°26'18	max. Earth dist.	11070 Mar 19 09:52	7° \mathfrak{Y} 05'07	1.44590 AU
minimum elong	11069 Apr 01 20:54	16° \mathfrak{Y} 44'10	1°25'25	evening rise	11070 Mar 28 19:38	21° \mathfrak{Y} 46'57	
max. Earth dist.	11069 Apr 05 15:10	22° \mathfrak{Y} 39'53	1.45492 AU		11070 Apr 03 05:11	0° \mathfrak{B}	
	11069 Apr 10 07:52	0° \mathfrak{B}			11070 Apr 24 15:49	0° Π	
evening rise	11069 Apr 18 08:20	12° \mathfrak{B} 24'36		evening max el	11070 Apr 26 17:47	2° Π 14'48	20°40'45
	11069 Apr 29 20:56	0° Π		asc. node	11070 Apr 30 15:35	5° Π 32'37	
greatest brilliancy	11069 May 02 00:03	3° Π 10'16	-0.7m	retrograde	11070 May 04 22:48	7° Π 01'33	
evening max el	11069 May 13 16:44	18° Π 31'11	19°38'08				

evening set	11070 May 09 01:26	5° Π 25'22		evening max el	11071 Apr 09 13:25	15° \mathcal{B} 59'35	21°54'25
	11070 May 13 19:35	30° \mathcal{R} \mathcal{B}		asc. node	11071 Apr 17 12:50	21° \mathcal{B} 20'35	
inferior conj	11070 May 14 08:06	29° \mathcal{B} 16'55	3°10'36	retrograde	11071 Apr 18 20:48	21° \mathcal{B} 29'11	
minimum elong	11070 May 14 07:05	29° \mathcal{B} 20'27	3°10'00	evening set	11071 Apr 23 09:53	19° \mathcal{B} 37'38	
min. Earth dist.	11070 May 14 22:09	28° \mathcal{B} 28'29	0.68202 AU	inferior conj	11071 Apr 28 16:51	13° \mathcal{B} 18'44	2°53'33
morning rise	11070 May 19 12:30	22° \mathcal{B} 59'18		minimum elong	11071 Apr 28 15:05	13° \mathcal{B} 24'53	2°52'51
direct	11070 May 24 23:12	20° \mathcal{B} 34'45		min. Earth dist.	11071 Apr 28 17:53	13° \mathcal{B} 15'07	0.68644 AU
desc. node	11070 Jun 03 08:29	25° \mathcal{B} 36'00		morning rise	11071 May 03 20:07	7° \mathcal{B} 05'55	
morning max el	11070 Jun 04 22:36	27° \mathcal{B} 08'25	23°56'39	direct	11071 May 08 17:32	5° \mathcal{B} 00'00	
	11070 Jun 07 14:39	0° Π		morning max el	11071 May 18 09:52	10° \mathcal{B} 42'21	22°27'05
	11070 Jun 29 09:00	0° \mathcal{B}		desc. node	11071 May 21 05:22	13° \mathcal{B} 43'58	
morning set	11070 Jul 10 07:51	17° \mathcal{B} 51'45			11071 Jun 02 15:29	0° Π	
max. Earth dist.	11070 Jul 14 02:30	24° \mathcal{B} 26'44	1.38463 AU	morning set	11071 Jun 21 01:25	28° Π 08'51	
	11070 Jul 17 04:34	0° Ω			11071 Jun 22 04:37	0° \mathcal{B}	
				max. Earth dist.	11071 Jun 26 00:39	6° \mathcal{B} 23'18	1.40754 AU
superior conj	11070 Jul 21 10:52	7° Ω 55'56	-0°56'18	superior conj	11071 Jul 03 20:00	19° \mathcal{B} 59'08	-1°28'59
minimum elong	11070 Jul 21 14:41	8° Ω 14'03	0°56'12	minimum elong	11071 Jul 04 02:00	20° \mathcal{B} 26'05	1°28'49
asc. node	11070 Jul 27 14:45	19° Ω 51'17			11071 Jul 09 07:24	0° Ω	
evening rise	11070 Jul 30 10:31	25° Ω 24'22		evening rise	11071 Jul 14 00:20	8° Ω 49'07	
	11070 Aug 01 19:03	0° \mathcal{M}		asc. node	11071 Jul 14 11:37	9° Ω 42'10	
evening max el	11070 Aug 15 18:40	22° \mathcal{M} 00'36	18°56'27		11071 Jul 26 06:58	0° \mathcal{M}	
retrograde	11070 Aug 24 10:34	26° \mathcal{M} 20'05		evening max el	11071 Jul 30 00:24	4° \mathcal{M} 27'24	18°20'45
evening set	11070 Aug 26 07:50	26° \mathcal{M} 08'34		retrograde	11071 Aug 06 10:52	8° \mathcal{M} 12'01	
desc. node	11070 Aug 30 06:46	24° \mathcal{M} 38'18		evening set	11071 Aug 08 14:23	7° \mathcal{M} 54'04	
inferior conj	11070 Sep 03 14:44	21° \mathcal{M} 51'33	-1°21'12	inferior conj	11071 Aug 16 02:02	3° \mathcal{M} 16'55	0°19'47
minimum elong	11070 Sep 03 11:16	21° \mathcal{M} 57'40	1°19'59	minimum elong	11071 Aug 16 02:44	3° \mathcal{M} 15'30	0°19'11
min. Earth dist.	11070 Sep 06 14:05	19° \mathcal{M} 46'32	0.56501 AU	desc. node	11071 Aug 17 04:04	2° \mathcal{M} 22'57	
morning rise	11070 Sep 11 11:29	16° \mathcal{M} 59'25		min. Earth dist.	11071 Aug 19 10:24	0° \mathcal{M} 32'29	0.58486 AU
direct	11070 Sep 17 00:00	15° \mathcal{M} 47'02			11071 Aug 20 03:19	30° \mathcal{R} Ω	
morning max el	11070 Oct 01 05:31	23° \mathcal{M} 06'30	26°06'07	morning rise	11071 Aug 23 11:33	27° Ω 48'54	
	11070 Oct 07 10:09	0° \mathcal{L}		direct	11071 Aug 29 16:03	26° Ω 07'28	
asc. node	11070 Oct 23 15:37	26° \mathcal{L} 04'21			11071 Sep 08 13:33	0° \mathcal{M}	
	11070 Oct 25 15:14	0° \mathcal{M}		morning max el	11071 Sep 13 00:46	3° \mathcal{M} 50'24	27°18'08
morning set	11070 Oct 29 10:43	7° \mathcal{M} 55'49			11071 Oct 02 03:29	0° \mathcal{L}	
superior conj	11070 Nov 05 06:36	22° \mathcal{M} 55'37	1°35'27	asc. node	11071 Oct 10 12:24	15° \mathcal{L} 39'30	
minimum elong	11070 Nov 05 05:23	22° \mathcal{M} 48'52	1°35'51	morning set	11071 Oct 13 19:07	22° \mathcal{L} 26'37	
max. Earth dist.	11070 Nov 06 04:09	24° \mathcal{M} 55'04	1.31740 AU		11071 Oct 17 07:04	0° \mathcal{M}	
	11070 Nov 08 11:35	0° \mathcal{X}		superior conj	11071 Oct 20 18:22	7° \mathcal{M} 41'46	1°25'48
evening rise	11070 Nov 12 06:01	8° \mathcal{X} 04'23		minimum elong	11071 Oct 20 16:26	7° \mathcal{M} 31'01	1°25'55
	11070 Nov 23 17:37	0° \mathcal{B}		max. Earth dist.	11071 Oct 20 13:09	7° \mathcal{M} 12'41	1.31407 AU
desc. node	11070 Nov 26 04:19	4° \mathcal{B} 05'20		evening rise	11071 Oct 27 12:37	22° \mathcal{M} 33'10	
evening max el	11070 Dec 14 00:55	27° \mathcal{B} 27'05	27°20'49		11071 Oct 31 02:31	0° \mathcal{X}	
	11070 Dec 16 23:06	0° \approx		desc. node	11071 Nov 13 01:29	23° \mathcal{X} 01'01	
retrograde	11070 Dec 27 22:15	4° \approx 42'33			11071 Nov 17 23:17	0° \mathcal{B}	
evening set	11071 Jan 03 21:53	2° \approx 28'36		evening max el	11071 Nov 26 02:38	9° \mathcal{B} 16'38	26°36'41
	11071 Jan 07 05:41	30° \mathcal{R} \mathcal{B}		retrograde	11071 Dec 10 01:16	16° \mathcal{B} 24'07	
min. Earth dist.	11071 Jan 07 15:22	29° \mathcal{B} 39'27	0.61417 AU	evening set	11071 Dec 16 17:09	14° \mathcal{B} 33'57	
inferior conj	11071 Jan 10 16:50	26° \mathcal{B} 56'06	-2°52'27	min. Earth dist.	11071 Dec 20 16:36	11° \mathcal{B} 57'37	0.59286 AU
minimum elong	11071 Jan 10 22:41	26° \mathcal{B} 43'03	2°49'39	inferior conj	11071 Dec 23 20:45	9° \mathcal{B} 29'49	-4°08'29
morning rise	11071 Jan 18 02:10	21° \mathcal{B} 58'43		minimum elong	11071 Dec 24 04:42	9° \mathcal{B} 14'22	4°05'28
asc. node	11071 Jan 19 15:08	21° \mathcal{B} 40'32		morning rise	11071 Dec 31 19:00	4° \mathcal{B} 53'33	
direct	11071 Jan 20 06:13	21° \mathcal{B} 38'50		direct	11072 Jan 02 21:42	4° \mathcal{B} 37'35	
morning max el	11071 Jan 27 06:19	25° \mathcal{B} 10'45	17°52'19	asc. node	11072 Jan 06 12:17	5° \mathcal{B} 26'41	
	11071 Jan 31 06:32	0° \approx		morning max el	11072 Jan 10 17:45	8° \mathcal{B} 29'34	18°16'41
morning set	11071 Feb 11 22:05	19° \approx 38'22			11072 Jan 24 14:20	0° \approx	
	11071 Feb 17 16:16	0° \mathcal{X}		morning set	11072 Jan 26 11:39	3° \approx 33'56	
desc. node	11071 Feb 22 04:18	7° \mathcal{X} 53'37		superior conj	11072 Feb 04 20:36	21° \approx 06'14	0°32'06
superior conj	11071 Feb 22 16:01	8° \mathcal{X} 44'06	-0°03'45	minimum elong	11072 Feb 04 22:52	21° \approx 16'32	0°32'11
minimum elong	11071 Feb 22 15:42	8° \mathcal{X} 42'44	0°03'25	desc. node	11072 Feb 09 01:03	28° \approx 34'42	
behind sun begin	11071 Feb 22 07:27	8° \mathcal{X} 07'11			11072 Feb 09 20:35	0° \mathcal{X}	
behind sun end	11071 Feb 22 23:57	9° \mathcal{X} 18'13		max. Earth dist.	11072 Feb 12 10:31	4° \mathcal{X} 26'26	1.41100 AU
max. Earth dist.	11071 Mar 02 00:37	21° \mathcal{X} 04'47	1.43067 AU	evening rise	11072 Feb 17 02:54	12° \mathcal{X} 14'39	
	11071 Mar 07 13:55	0° \mathcal{Y}			11072 Feb 28 11:57	0° \mathcal{Y}	
evening rise	11071 Mar 08 14:12	1° \mathcal{Y} 35'31		evening max el	11072 Mar 22 05:10	29° \mathcal{Y} 46'37	23°14'12
	11071 Mar 27 17:19	0° \mathcal{B}					

	11072 Mar 22 10:33	0°♄		retrograde	11073 Mar 16 08:10	20°♄21'36	
retrograde	11072 Apr 01 16:19	5°♄57'24		asc. node	11073 Mar 21 07:24	18°♄30'03	
asc. node	11072 Apr 03 10:07	5°♄42'57		evening set	11073 Mar 21 20:41	18°♄03'09	
evening set	11072 Apr 06 16:48	3°♄51'33		min. Earth dist.	11073 Mar 26 10:24	12°♄51'19	0.68206 AU
	11072 Apr 10 04:29	30°♄		inferior conj	11073 Mar 27 09:43	11°♄33'27	1°50'13
min. Earth dist.	11072 Apr 11 14:43	28°♄04'18	0.68641 AU	minimum elong	11073 Mar 27 07:38	11°♄40'26	1°49'27
inferior conj	11072 Apr 12 02:00	27°♄25'20	2°26'37	morning rise	11073 Apr 01 18:43	5°♄34'25	
minimum elong	11072 Apr 11 23:52	27°♄32'44	2°25'50	direct	11073 Apr 05 14:14	4°♄11'10	
morning rise	11072 Apr 17 06:49	21°♄18'40		morning max el	11073 Apr 13 01:19	8°♄21'07	19°52'07
direct	11072 Apr 21 14:59	19°♄33'58		desc. node	11073 Apr 23 23:02	22°♄09'45	
morning max el	11072 Apr 30 01:53	24°♄25'35	21°03'37		11073 Apr 29 07:35	0°♄	
	11072 May 05 00:08	0°♄		morning set	11073 May 09 17:01	15°♄45'32	
desc. node	11072 May 07 02:13	2°♄39'27			11073 May 18 20:24	0°♄	
	11072 May 26 00:26	0°♄		max. Earth dist.	11073 May 20 16:08	2°♄53'11	1.44456 AU
morning set	11072 May 30 17:04	7°♄16'10					
max. Earth dist.	11072 Jun 07 04:37	19°♄12'51	1.42834 AU	superior conj	11073 May 25 19:30	11°♄08'08	-2°11'47
	11072 Jun 13 16:33	0°♄		minimum elong	11073 May 25 22:07	11°♄18'43	2°12'19
					11073 Jun 06 04:19	0°♄	
superior conj	11072 Jun 14 07:50	1°♄04'49	-1°56'16	evening rise	11073 Jun 08 04:58	3°♄26'36	
minimum elong	11072 Jun 14 14:11	1°♄31'49	1°56'23	asc. node	11073 Jun 17 05:33	18°♄36'58	
evening rise	11072 Jun 26 00:06	21°♄33'30			11073 Jun 25 08:31	0°♄	
asc. node	11072 Jun 30 08:33	29°♄19'16		evening max el	11073 Jun 26 02:00	0°♄45'05	18°08'20
	11072 Jun 30 17:48	0°♄		retrograde	11073 Jul 02 10:54	4°♄05'28	
evening max el	11072 Jul 12 12:07	17°♄25'35	18°05'05	evening set	11073 Jul 05 06:21	3°♄24'27	
retrograde	11072 Jul 19 04:22	20°♄50'36			11073 Jul 09 15:46	30°♄	
evening set	11072 Jul 21 15:51	20°♄22'26		inferior conj	11073 Jul 11 10:12	28°♄08'25	2°29'12
inferior conj	11072 Jul 28 09:47	15°♄25'04	1°36'46	minimum elong	11073 Jul 11 12:48	28°♄01'21	2°27'59
minimum elong	11072 Jul 28 12:19	15°♄19'00	1°35'28	min. Earth dist.	11073 Jul 14 03:53	25°♄11'33	0.62969 AU
min. Earth dist.	11072 Jul 31 14:36	12°♄23'03	0.60740 AU	morning rise	11073 Jul 17 17:28	21°♄56'53	
desc. node	11072 Aug 03 01:20	10°♄20'27		desc. node	11073 Jul 20 22:36	20°♄06'29	
morning rise	11072 Aug 04 06:02	9°♄30'11		direct	11073 Jul 24 10:24	19°♄26'20	
direct	11072 Aug 10 20:19	7°♄20'46		morning max el	11073 Aug 07 10:37	27°♄28'40	27°51'26
morning max el	11072 Aug 25 02:58	15°♄17'50	27°54'02		11073 Aug 09 20:03	0°♄	
	11072 Sep 06 02:07	0°♄			11073 Aug 30 19:42	0°♄	
	11072 Sep 23 15:53	0°♄		morning set	11073 Sep 10 20:34	20°♄35'33	
asc. node	11072 Sep 26 09:11	5°♄29'50		asc. node	11073 Sep 13 05:55	25°♄29'20	
morning set	11072 Sep 26 23:10	6°♄42'08			11073 Sep 15 09:23	0°♄	
max. Earth dist.	11072 Oct 02 21:25	19°♄25'54	1.31570 AU	max. Earth dist.	11073 Sep 16 01:00	1°♄23'15	1.32237 AU
superior conj	11072 Oct 04 05:20	22°♄22'11	1°10'42	superior conj	11073 Sep 18 13:30	6°♄50'03	0°50'24
minimum elong	11072 Oct 04 03:05	22°♄09'46	1°10'34	minimum elong	11073 Sep 18 11:27	6°♄38'55	0°50'03
	11072 Oct 07 15:57	0°♄		evening rise	11073 Sep 25 09:58	21°♄46'33	
evening rise	11072 Oct 10 22:36	7°♄09'29			11073 Sep 29 08:20	0°♄	
	11072 Oct 22 16:43	0°♄		desc. node	11073 Oct 16 19:59	27°♄57'13	
desc. node	11072 Oct 29 22:42	11°♄05'13			11073 Oct 18 18:23	0°♄	
evening max el	11072 Nov 06 20:23	20°♄15'23	25°21'00	evening max el	11073 Oct 19 07:35	0°♄32'23	23°44'32
retrograde	11072 Nov 20 17:13	27°♄13'41		retrograde	11073 Nov 01 20:25	7°♄17'45	
evening set	11072 Nov 26 14:30	25°♄54'44		evening set	11073 Nov 06 11:27	6°♄31'06	
min. Earth dist.	11072 Dec 01 08:33	23°♄15'17	0.57274 AU	min. Earth dist.	11073 Nov 12 17:51	3°♄29'53	0.55655 AU
inferior conj	11072 Dec 04 05:17	21°♄19'30	-5°13'00	inferior conj	11073 Nov 14 17:20	2°♄19'07	-5°46'55
minimum elong	11072 Dec 04 12:32	21°♄07'14	5°11'02	minimum elong	11073 Nov 14 18:57	2°♄16'43	5°46'19
morning rise	11072 Dec 12 12:52	17°♄05'27			11073 Nov 18 20:54	30°♄	
direct	11072 Dec 14 19:56	16°♄49'47		morning rise	11073 Nov 23 04:20	28°♄24'33	
asc. node	11072 Dec 23 09:23	20°♄45'08		direct	11073 Nov 25 22:43	28°♄05'28	
morning max el	11072 Dec 23 20:21	21°♄10'57	19°02'17		11073 Dec 02 11:10	0°♄	
	11072 Dec 30 16:18	0°♄		morning max el	11073 Dec 06 10:30	3°♄04'00	20°10'42
morning set	11073 Jan 09 11:03	17°♄55'44		asc. node	11073 Dec 10 06:25	7°♄20'32	
	11073 Jan 15 13:54	0°♄		morning set	11073 Dec 23 10:46	0°♄	
					11073 Dec 24 16:52	2°♄32'57	
superior conj	11073 Jan 17 19:38	4°♄19'48	1°00'17				
minimum elong	11073 Jan 17 22:40	4°♄34'19	1°00'25	superior conj	11074 Jan 01 08:22	18°♄10'49	1°20'31
max. Earth dist.	11073 Jan 24 17:20	17°♄08'02	1.38910 AU	minimum elong	11074 Jan 01 10:59	18°♄24'01	1°20'51
desc. node	11073 Jan 25 21:52	19°♄14'54		max. Earth dist.	11074 Jan 07 00:23	29°♄15'56	1.36734 AU
evening rise	11073 Jan 28 13:06	23°♄50'25			11074 Jan 07 09:42	0°♄	
	11073 Feb 01 04:47	0°♄		evening rise	11074 Jan 10 19:06	6°♄16'38	
	11073 Feb 21 06:55	0°♄		desc. node	11074 Jan 12 18:43	9°♄49'49	
evening max el	11073 Mar 04 19:03	13°♄36'54	24°33'52		11074 Jan 25 01:28	0°♄	

evening max el	11074 Feb 15 08:27	27° H 27'02	25°46'35		11075 Jan 19 03:14	0° H	
	11074 Feb 18 03:37	0° Y		evening max el	11075 Jan 28 21:52	11° H 10'35	26°45'01
retrograde	11074 Feb 27 19:23	4° Y 35'43		retrograde	11075 Feb 11 01:16	18° H 32'08	
evening set	11074 Mar 05 19:55	2° Y 07'34		evening set	11075 Feb 17 12:37	15° H 58'47	
asc. node	11074 Mar 08 04:42	29° H 48'00		min. Earth dist.	11075 Feb 21 13:35	11° H 56'15	0.66099 AU
	11074 Mar 08 00:22	30° R H		asc. node	11075 Feb 23 02:00	10° H 09'25	
min. Earth dist.	11074 Mar 10 02:44	27° H 30'50	0.67349 AU	inferior conj	11075 Feb 23 12:51	9° H 37'21	0°08'51
inferior conj	11074 Mar 11 14:03	25° H 39'09	1°04'19	minimum elong	11075 Feb 23 12:36	9° H 38'05	0°09'02
minimum elong	11074 Mar 11 12:33	25° H 43'54	1°03'51	transit middle	11075 Feb 23 12:36	9° H 38'05	0°09'02
morning rise	11074 Mar 17 05:45	19° H 49'20		transit begin	11075 Feb 23 10:10	9° H 45'15	
direct	11074 Mar 20 13:37	18° H 46'00		transit end	11075 Feb 23 15:02	9° H 30'57	
morning max el	11074 Mar 27 08:31	22° H 27'06	18°55'45	morning rise	11075 Mar 01 13:44	3° H 58'40	
	11074 Apr 02 14:26	0° Y		direct	11075 Mar 04 11:18	3° H 12'15	
greatest brilliancy	11074 Apr 10 02:46	11° Y 00'43	-0.8m	morning max el	11075 Mar 10 21:52	6° H 37'18	18°15'44
desc. node	11074 Apr 10 19:47	12° Y 05'35			11075 Mar 27 05:42	0° Y	
morning set	11074 Apr 18 23:30	24° Y 41'32		desc. node	11075 Mar 28 16:28	2° Y 19'24	
	11074 Apr 22 09:27	0° Z		morning set	11075 Mar 30 06:50	4° Y 53'15	
max. Earth dist.	11074 May 03 09:09	17° Z 08'25	1.45434 AU				
				superior conj	11075 Apr 14 16:37	29° Y 18'29	-1°46'34
superior conj	11074 May 05 10:08	20° Z 20'39	-2°09'13	minimum elong	11075 Apr 14 07:14	28° Y 41'46	1°46'00
minimum elong	11074 May 05 05:22	20° Z 01'55	2°09'31		11075 Apr 15 03:13	0° Z	
	11074 May 11 12:37	0° II		max. Earth dist.	11075 Apr 16 04:35	1° Z 39'11	1.45681 AU
evening rise	11074 May 20 10:50	14° II 21'07		evening rise	11075 Apr 30 17:08	24° Z 18'59	
	11074 May 30 03:43	0° S			11075 May 04 08:30	0° II	
asc. node	11074 Jun 04 02:36	7° S 28'48		greatest brilliancy	11075 May 11 19:25	11° II 31'58	-0.8m
evening max el	11074 Jun 09 14:55	14° S 18'14	18°29'43	asc. node	11075 May 21 23:43	25° II 45'31	
retrograde	11074 Jun 16 02:04	17° S 47'55		evening max el	11075 May 24 00:22	27° II 58'25	19°08'30
evening set	11074 Jun 19 05:31	16° S 52'26			11075 May 26 07:31	0° S	
inferior conj	11074 Jun 24 23:12	11° S 19'42	3°00'35	retrograde	11075 May 30 22:16	1° S 49'59	
minimum elong	11074 Jun 25 00:58	11° S 14'23	2°59'41	evening set	11075 Jun 03 10:04	0° S 39'03	
min. Earth dist.	11074 Jun 27 02:36	8° S 46'17	0.64956 AU		11075 Jun 04 06:51	30° R II	
morning rise	11074 Jun 30 19:24	5° S 00'01		inferior conj	11075 Jun 08 21:10	24° II 51'19	3°14'59
direct	11074 Jul 07 08:45	2° S 18'13		minimum elong	11075 Jun 08 21:48	24° II 49'17	3°14'19
desc. node	11074 Jul 07 19:46	2° S 18'56		min. Earth dist.	11075 Jun 10 09:40	22° II 53'48	0.66570 AU
morning max el	11074 Jul 20 21:10	10° S 15'00	27°14'04	morning rise	11075 Jun 14 08:59	18° II 29'37	
	11074 Aug 05 10:20	0° Q		direct	11075 Jun 20 14:13	15° II 47'14	
	11074 Aug 23 06:34	0° P		desc. node	11075 Jun 24 16:52	16° II 46'02	
morning set	11074 Aug 25 08:43	4° P 00'23		morning max el	11075 Jul 03 07:58	23° II 23'56	26°09'33
max. Earth dist.	11074 Aug 29 20:16	12° P 57'07	1.33413 AU		11075 Jul 09 04:37	0° S	
asc. node	11074 Aug 31 02:41	15° P 33'56			11075 Jul 29 18:44	0° Q	
				morning set	11075 Aug 08 08:10	16° Q 47'38	
superior conj	11074 Sep 02 16:50	20° P 59'54	0°25'12	max. Earth dist.	11075 Aug 12 04:53	24° Q 07'36	1.35082 AU
minimum elong	11074 Sep 02 15:36	20° P 53'21	0°24'47		11075 Aug 15 04:25	0° P	
	11074 Sep 06 21:51	0° A					
evening rise	11074 Sep 09 20:52	6° A 19'12		superior conj	11075 Aug 17 12:49	4° P 45'07	-0°04'20
	11074 Sep 22 10:48	0° M		minimum elong	11075 Aug 17 13:05	4° P 46'28	0°04'36
evening max el	11074 Sep 30 19:45	10° M 38'47	22°04'19	behind sun begin	11075 Aug 17 07:18	4° P 16'56	
desc. node	11074 Oct 03 17:16	13° M 10'53		behind sun end	11075 Aug 17 18:52	5° P 16'03	
retrograde	11074 Oct 13 12:25	16° M 57'52		asc. node	11075 Aug 17 23:27	5° P 39'30	
evening set	11074 Oct 16 16:16	16° M 35'36		evening rise	11075 Aug 25 05:15	20° P 41'42	
min. Earth dist.	11074 Oct 25 00:48	12° M 55'02	0.54721 AU		11075 Aug 29 19:49	0° A	
inferior conj	11074 Oct 25 13:34	12° M 37'07	-5°29'22	evening max el	11075 Sep 12 18:11	21° A 11'38	20°35'42
minimum elong	11074 Oct 25 06:55	12° M 46'28	5°28'03	desc. node	11075 Sep 20 14:35	26° A 16'36	
morning rise	11074 Nov 02 22:59	8° M 50'06		retrograde	11075 Sep 24 00:06	26° A 46'33	
direct	11074 Nov 06 09:58	8° M 23'41		evening set	11075 Sep 26 03:23	26° A 35'20	
morning max el	11074 Nov 18 10:57	14° M 05'44	21°40'55	inferior conj	11075 Oct 05 05:51	22° A 39'26	-4°15'10
asc. node	11074 Nov 27 03:23	24° M 56'59		minimum elong	11075 Oct 04 19:56	22° A 53'46	4°12'06
	11074 Nov 30 05:07	0° J		min. Earth dist.	11075 Oct 06 08:56	22° A 00'20	0.54694 AU
morning set	11074 Dec 09 02:33	17° J 18'23		morning rise	11075 Oct 13 12:09	18° A 39'40	
	11074 Dec 15 02:36	0° Z		direct	11075 Oct 17 18:18	18° A 00'43	
				morning max el	11075 Oct 31 00:58	24° A 26'32	23°26'06
superior conj	11074 Dec 16 06:51	2° Z 28'18	1°33'13		11075 Nov 05 02:48	0° M	
minimum elong	11074 Dec 16 08:29	2° Z 36'51	1°33'44	asc. node	11075 Nov 14 00:17	13° M 20'14	
max. Earth dist.	11074 Dec 20 12:09	11° Z 08'23	1.34795 AU		11075 Nov 22 14:14	0° J	
evening rise	11074 Dec 24 17:33	19° Z 24'54		morning set	11075 Nov 23 14:07	2° J 06'21	
desc. node	11074 Dec 30 15:36	0° A 15'13					
	11074 Dec 30 12:08	0° A		superior conj	11075 Nov 30 12:01	17° J 03'09	1°39'00

minimum elong	11075 Nov 30 12:29	17°♊05'37	1°39'35	asc. node	11076 Oct 30 21:08	2°♑18'12	
max. Earth dist.	11075 Dec 03 07:43	23°♊04'46	1.33242 AU	morning set	11076 Nov 07 01:46	16°♑51'01	
	11075 Dec 06 15:48	0°♊			11076 Nov 13 01:57	0°♊	
evening rise	11075 Dec 08 04:51	3°♊06'25					
desc. node	11075 Dec 17 12:33	20°♊26'08		superior conj	11076 Nov 13 21:20	1°♊46'54	1°38'27
	11075 Dec 23 07:53	0°♊		minimum elong	11076 Nov 13 20:40	1°♊43'15	1°38'58
evening max el	11076 Jan 11 10:52	24°♊38'54	27°21'59	max. Earth dist.	11076 Nov 15 10:45	5°♊12'22	1.32149 AU
	11076 Jan 18 07:58	0°♊		evening rise	11076 Nov 21 01:43	17°♊11'37	
retrograde	11076 Jan 25 00:58	2°♊02'56			11076 Nov 27 14:17	0°♊	
	11076 Jan 31 04:16	30°♊		desc. node	11076 Dec 03 09:35	10°♊15'12	
evening set	11076 Jan 31 20:40	29°♊30'53			11076 Dec 16 22:26	0°♊	
min. Earth dist.	11076 Feb 04 16:57	26°♊00'27	0.64497 AU	evening max el	11076 Dec 23 21:38	7°♊38'38	27°30'46
inferior conj	11076 Feb 07 03:44	23°♊23'03	-0°55'47	retrograde	11077 Jan 06 17:23	14°♊57'43	
minimum elong	11076 Feb 07 05:27	23°♊18'28	0°54'38	evening set	11077 Jan 13 17:17	12°♊34'55	
asc. node	11076 Feb 09 23:15	20°♊31'56		min. Earth dist.	11077 Jan 17 10:52	9°♊32'36	0.62601 AU
morning rise	11076 Feb 13 16:03	17°♊57'49		inferior conj	11077 Jan 20 07:44	6°♊47'48	-2°08'20
direct	11076 Feb 16 05:00	17°♊24'39		minimum elong	11077 Jan 20 12:01	6°♊37'32	2°06'04
morning max el	11076 Feb 22 14:49	20°♊44'46	17°52'38	asc. node	11077 Jan 26 20:28	1°♊51'06	
	11076 Feb 29 17:16	0°♊		morning rise	11077 Jan 27 09:10	1°♊39'01	
morning set	11076 Mar 10 19:08	16°♊30'20		direct	11077 Jan 29 15:43	1°♊15'15	
desc. node	11076 Mar 14 13:09	22°♊46'19		morning max el	11077 Feb 05 08:16	4°♊40'14	17°47'07
	11076 Mar 18 22:15	0°♊		morning set	11077 Feb 21 07:27	29°♊16'09	
					11077 Feb 21 17:26	0°♊	
superior conj	11076 Mar 24 09:17	8°♊50'31	-1°09'18	desc. node	11077 Mar 01 09:49	13°♊21'27	
minimum elong	11076 Mar 24 01:50	8°♊20'40	1°08'23				
max. Earth dist.	11076 Mar 28 23:54	16°♊09'54	1.45192 AU	superior conj	11077 Mar 05 00:20	19°♊26'55	-0°27'06
	11076 Apr 06 21:07	0°♊		minimum elong	11077 Mar 04 21:38	19°♊15'38	0°26'31
evening rise	11076 Apr 09 07:18	3°♊43'37			11077 Mar 11 10:41	0°♊	
greatest brilliancy	11076 Apr 24 07:16	26°♊17'16	-0.6m	max. Earth dist.	11077 Mar 11 17:06	0°♊25'51	1.44017 AU
	11076 Apr 26 21:24	0°♊		evening rise	11077 Mar 19 19:58	13°♊13'16	
evening max el	11076 May 06 04:46	11°♊41'51	20°03'10		11077 Mar 30 22:52	0°♊	
asc. node	11076 May 07 20:54	13°♊15'53		evening max el	11077 Apr 19 03:33	25°♊26'24	21°11'02
retrograde	11076 May 13 20:42	16°♊05'57		asc. node	11077 Apr 24 18:07	29°♊45'43	
evening set	11076 May 17 17:38	14°♊39'07			11077 Apr 25 07:20	0°♊	
inferior conj	11076 May 23 01:12	8°♊37'54	3°15'35	retrograde	11077 Apr 27 19:15	0°♊30'36	
minimum elong	11076 May 23 00:43	8°♊39'31	3°15'00		11077 Apr 30 04:00	30°♊	
min. Earth dist.	11076 May 23 23:15	7°♊23'14	0.67746 AU	evening set	11077 May 02 02:16	28°♊47'50	
morning rise	11076 May 28 07:29	2°♊18'06		inferior conj	11077 May 07 08:50	22°♊34'53	3°04'36
	11076 Jun 01 04:45	30°♊		minimum elong	11077 May 07 07:27	22°♊39'40	3°03'57
direct	11076 Jun 03 01:35	29°♊44'40		min. Earth dist.	11077 May 07 17:17	22°♊05'30	0.68454 AU
	11076 Jun 05 00:28	0°♊		morning rise	11077 May 12 12:26	16°♊19'16	
desc. node	11076 Jun 10 13:54	2°♊59'37		direct	11077 May 17 17:39	14°♊01'59	
morning max el	11076 Jun 14 17:45	6°♊45'01	24°47'34	morning max el	11077 May 28 03:36	20°♊13'41	23°18'10
	11076 Jul 02 19:26	0°♊		desc. node	11077 May 28 10:50	20°♊32'05	
morning set	11076 Jul 20 14:32	28°♊46'12			11077 Jun 05 11:27	0°♊	
	11076 Jul 21 07:12	0°♊			11077 Jun 26 00:07	0°♊	
max. Earth dist.	11076 Jul 24 04:32	5°♊12'38	1.37160 AU	morning set	11077 Jul 01 22:49	9°♊43'18	
				max. Earth dist.	11077 Jul 06 01:40	16°♊44'43	1.39450 AU
superior conj	11076 Jul 30 22:25	17°♊58'25	-0°36'55		11077 Jul 13 11:11	0°♊	
minimum elong	11076 Jul 31 00:50	18°♊10'11	0°36'57				
asc. node	11076 Aug 03 20:15	25°♊42'28		superior conj	11077 Jul 13 17:48	0°♊30'38	-1°10'31
	11076 Aug 05 23:32	0°♊		minimum elong	11077 Jul 13 22:39	0°♊53'03	1°10'20
evening rise	11076 Aug 08 08:51	4°♊48'09		asc. node	11077 Jul 21 17:06	15°♊39'12	
	11076 Aug 23 00:17	0°♊		evening rise	11077 Jul 23 04:44	18°♊31'08	
evening max el	11076 Aug 25 06:35	2°♊30'13	19°26'31		11077 Jul 29 07:05	0°♊	
retrograde	11076 Sep 03 19:37	7°♊14'51		evening max el	11077 Aug 08 07:08	14°♊34'40	18°38'45
evening set	11076 Sep 05 15:49	7°♊05'01		retrograde	11077 Aug 16 08:55	18°♊37'20	
desc. node	11076 Sep 06 11:55	6°♊54'19		evening set	11077 Aug 18 08:37	18°♊23'27	
inferior conj	11076 Sep 14 08:37	2°♊58'33	-2°26'20	desc. node	11077 Aug 24 09:16	15°♊22'17	
minimum elong	11076 Sep 14 02:08	3°♊09'01	2°23'54	inferior conj	11077 Aug 26 07:21	13°♊57'51	-0°35'47
min. Earth dist.	11076 Sep 16 20:08	1°♊22'53	0.55614 AU	minimum elong	11077 Aug 26 05:54	14°♊00'34	0°35'27
	11076 Sep 19 03:49	30°♊		min. Earth dist.	11077 Aug 29 12:18	11°♊34'02	0.57294 AU
morning rise	11076 Sep 22 10:02	28°♊28'20		morning rise	11077 Sep 02 23:47	8°♊50'07	
direct	11076 Sep 27 12:08	27°♊29'57		direct	11077 Sep 08 19:49	7°♊25'48	
	11076 Oct 05 16:06	0°♊		morning max el	11077 Sep 23 03:07	14°♊55'26	26°40'47
morning max el	11076 Oct 11 11:55	4°♊32'07	25°11'59		11077 Oct 05 06:18	0°♊	
	11076 Oct 29 15:20	0°♊		asc. node	11077 Oct 17 17:56	21°♊42'06	

	11077 Oct 21 19:12	0°♄		morning max el	11078 Sep 05 01:37	25°♄57'29	27°38'14
morning set	11077 Oct 22 11:52	1°♄28'23			11078 Sep 08 20:23	0°♄	
					11078 Sep 28 17:49	0°♄	
superior conj	11077 Oct 29 08:45	16°♄33'46	1°32'01	asc. node	11078 Oct 04 14:43	11°♄24'09	
minimum elong	11077 Oct 29 07:12	16°♄25'05	1°32'19	morning set	11078 Oct 06 18:39	15°♄53'02	
max. Earth dist.	11077 Oct 29 18:48	17°♄29'38	1.31542 AU	max. Earth dist.	11078 Oct 13 04:06	29°♄46'58	1.31419 AU
	11077 Nov 04 11:49	0°♄			11078 Oct 13 06:27	0°♄	
evening rise	11077 Nov 05 05:28	1°♄33'48					
desc. node	11077 Nov 20 06:43	29°♄33'42		superior conj	11078 Oct 13 20:23	1°♄17'31	1°20'02
	11077 Nov 20 13:22	0°♄		minimum elong	11078 Oct 13 18:16	1°♄05'44	1°20'03
evening max el	11077 Dec 06 03:32	19°♄56'43	27°06'16	evening rise	11078 Oct 20 13:45	16°♄05'53	
retrograde	11077 Dec 20 01:20	27°♄07'55			11078 Oct 27 09:42	0°♄	
evening set	11077 Dec 26 22:58	25°♄03'09		desc. node	11078 Nov 07 03:56	18°♄09'16	
min. Earth dist.	11077 Dec 30 18:00	22°♄21'08	0.60517 AU		11078 Nov 16 15:55	0°♄	
inferior conj	11078 Jan 02 21:28	19°♄42'41	-3°25'10	evening max el	11078 Nov 18 01:45	1°♄23'15	26°07'47
minimum elong	11078 Jan 03 04:23	19°♄28'07	3°22'08	retrograde	11078 Dec 01 23:43	8°♄27'04	
morning rise	11078 Jan 10 12:30	14°♄53'45		evening set	11078 Dec 08 09:26	6°♄49'09	
direct	11078 Jan 12 15:35	14°♄35'49		min. Earth dist.	11078 Dec 12 14:42	4°♄14'01	0.58401 AU
asc. node	11078 Jan 13 17:38	14°♄40'38		inferior conj	11078 Dec 15 17:23	1°♄57'49	-4°38'15
morning max el	11078 Jan 19 22:54	18°♄14'55	18°00'13	minimum elong	11078 Dec 16 01:32	1°♄42'54	4°35'31
	11078 Jan 28 09:45	0°♄			11078 Dec 18 12:38	30°♄	
morning set	11078 Feb 04 13:23	12°♄50'54		morning rise	11078 Dec 23 20:16	27°♄31'21	
	11078 Feb 13 23:33	0°♄		direct	11078 Dec 26 00:07	27°♄15'55	
				asc. node	11078 Dec 31 14:45	29°♄06'59	
superior conj	11078 Feb 14 16:07	1°♄13'10	0°12'19		11079 Jan 01 19:37	0°♄	
minimum elong	11078 Feb 14 17:09	1°♄17'43	0°12'31	morning max el	11079 Jan 03 07:03	1°♄18'46	18°33'29
behind sun begin	11078 Feb 14 12:11	0°♄55'46		morning set	11079 Jan 19 07:36	26°♄58'41	
behind sun end	11078 Feb 14 22:08	1°♄39'39			11079 Jan 20 21:07	0°♄	
desc. node	11078 Feb 16 06:32	4°♄01'18					
max. Earth dist.	11078 Feb 22 06:24	14°♄12'33	1.42279 AU	superior conj	11079 Jan 28 05:12	13°♄59'01	0°45'02
evening rise	11078 Feb 27 21:25	23°♄21'25		minimum elong	11079 Jan 28 07:58	14°♄11'55	0°45'07
	11078 Mar 04 02:56	0°♄		desc. node	11079 Feb 03 03:19	24°♄42'21	
	11078 Mar 25 00:18	0°♄		max. Earth dist.	11079 Feb 04 14:46	27°♄17'17	1.40174 AU
evening max el	11078 Apr 01 21:22	9°♄12'05	22°27'56		11079 Feb 06 04:33	0°♄	
retrograde	11078 Apr 11 16:18	14°♄59'11		evening rise	11079 Feb 08 19:09	4°♄24'15	
asc. node	11078 Apr 11 15:23	14°♄59'11			11079 Feb 25 07:28	0°♄	
evening set	11078 Apr 16 10:16	13°♄01'10		evening max el	11079 Mar 15 11:55	23°♄00'08	23°48'27
inferior conj	11078 Apr 21 17:59	6°♄38'49	2°43'18	retrograde	11079 Mar 26 10:30	29°♄26'56	
minimum elong	11078 Apr 21 16:00	6°♄45'41	2°42'33	asc. node	11079 Mar 29 12:40	28°♄42'11	
min. Earth dist.	11078 Apr 21 13:38	6°♄53'55	0.68703 AU	evening set	11079 Mar 31 16:08	27°♄15'10	
morning rise	11078 Apr 26 21:37	0°♄28'44		min. Earth dist.	11079 Apr 05 10:14	21°♄43'08	0.68505 AU
	11078 Apr 27 12:06	30°♄		inferior conj	11079 Apr 06 02:45	20°♄46'44	2°12'21
direct	11078 May 01 13:22	28°♄31'47		minimum elong	11079 Apr 06 00:34	20°♄54'11	2°11'33
	11078 May 06 00:30	0°♄		morning rise	11079 Apr 11 09:03	14°♄43'17	
morning max el	11078 May 10 16:34	3°♄51'18	21°50'25	direct	11079 Apr 15 11:38	13°♄08'02	
desc. node	11078 May 15 07:43	9°♄01'56		morning max el	11079 Apr 23 11:44	17°♄40'42	20°31'35
	11078 May 30 13:09	0°♄		desc. node	11079 May 02 04:32	28°♄13'45	
morning set	11078 Jun 12 05:02	19°♄29'20			11079 May 03 11:27	0°♄	
max. Earth dist.	11078 Jun 18 02:33	29°♄05'48	1.41685 AU	morning set	11079 May 22 12:03	28°♄15'16	
	11078 Jun 18 15:35	0°♄			11079 May 23 15:02	0°♄	
				max. Earth dist.	11079 May 31 09:49	12°♄18'33	1.43592 AU
superior conj	11078 Jun 25 18:24	12°♄10'15	-1°41'34				
minimum elong	11078 Jun 26 00:54	12°♄38'48	1°41'28	superior conj	11079 Jun 06 20:06	22°♄49'24	-2°04'41
	11078 Jul 05 15:24	0°♄		minimum elong	11079 Jun 07 01:28	23°♄11'44	2°05'01
evening rise	11078 Jul 06 13:09	1°♄40'12			11079 Jun 11 02:29	0°♄	
asc. node	11078 Jul 08 14:00	5°♄24'47		evening rise	11079 Jun 19 05:35	14°♄04'40	
evening max el	11078 Jul 22 15:51	27°♄15'32	18°11'39	asc. node	11079 Jun 25 10:59	24°♄54'35	
	11078 Jul 26 07:51	0°♄			11079 Jun 28 12:26	0°♄	
retrograde	11078 Jul 29 17:14	0°♄50'15		evening max el	11079 Jul 06 04:51	10°♄23'34	18°04'07
evening set	11078 Aug 01 00:03	0°♄28'21		retrograde	11079 Jul 12 16:56	13°♄45'10	
	11078 Aug 02 05:06	30°♄		evening set	11079 Jul 15 07:40	13°♄11'58	
inferior conj	11078 Aug 08 03:46	25°♄42'05	0°55'36	inferior conj	11079 Jul 21 19:09	8°♄06'27	2°01'49
minimum elong	11078 Aug 08 05:30	25°♄38'15	0°54'34	minimum elong	11079 Jul 21 21:52	7°♄59'33	2°00'29
desc. node	11078 Aug 11 06:36	22°♄58'07		min. Earth dist.	11079 Jul 24 19:52	5°♄03'47	0.61707 AU
min. Earth dist.	11078 Aug 11 11:39	22°♄47'32	0.59430 AU	morning rise	11079 Jul 28 09:40	2°♄02'55	
morning rise	11078 Aug 15 07:43	20°♄01'13		desc. node	11079 Jul 29 03:52	1°♄32'59	
direct	11078 Aug 21 17:01	18°♄07'46			11079 Aug 01 17:51	30°♄	

direct	11079 Aug 04 01:48	29° \mathfrak{D} 43'17		desc. node	11080 Jul 15 01:04	12° \mathfrak{D} 20'27	
	11079 Aug 06 11:24	0° \mathfrak{Q}		direct	11080 Jul 16 19:53	12° \mathfrak{D} 09'42	
morning max el	11079 Aug 18 06:38	7° \mathfrak{Q} 44'38	27°57'27	morning max el	11080 Jul 30 15:46	20° \mathfrak{D} 11'42	27°39'16
	11079 Sep 04 07:00	0° \mathfrak{P}			11080 Aug 08 01:30	0° \mathfrak{Q}	
morning set	11079 Sep 20 20:10	29° \mathfrak{P} 59'45			11080 Aug 27 08:14	0° \mathfrak{P}	
	11079 Sep 20 20:13	0° \mathfrak{L}		morning set	11080 Sep 03 14:02	13° \mathfrak{P} 42'19	
asc. node	11079 Sep 21 11:29	1° \mathfrak{L} 18'43		asc. node	11080 Sep 07 08:15	21° \mathfrak{P} 21'09	
max. Earth dist.	11079 Sep 26 10:45	11° \mathfrak{L} 53'47	1.31789 AU	max. Earth dist.	11080 Sep 08 10:58	23° \mathfrak{P} 40'54	1.32670 AU
					11080 Sep 11 10:09	0° \mathfrak{L}	
superior conj	11079 Sep 28 06:23	15° \mathfrak{L} 52'51	1°02'42	superior conj	11080 Sep 11 12:49	0° \mathfrak{L} 14'20	0°40'17
minimum elong	11079 Sep 28 04:09	15° \mathfrak{L} 40'37	1°02'27	minimum elong	11080 Sep 11 11:02	0° \mathfrak{L} 04'45	0°39'53
	11079 Oct 04 16:38	0° \mathfrak{M}		evening rise	11080 Sep 18 11:55	15° \mathfrak{L} 18'32	
evening rise	11079 Oct 05 00:31	0° \mathfrak{M} 42'30			11080 Sep 25 18:08	0° \mathfrak{M}	
	11079 Oct 20 20:43	0° \mathfrak{N}		desc. node	11080 Oct 10 22:29	21° \mathfrak{M} 59'35	
desc. node	11079 Oct 25 01:11	5° \mathfrak{N} 45'20		evening max el	11080 Oct 11 02:34	22° \mathfrak{M} 09'33	23°01'25
evening max el	11079 Oct 30 15:54	12° \mathfrak{N} 00'31	24°41'29	retrograde	11080 Oct 24 08:58	28° \mathfrak{M} 45'41	
retrograde	11079 Nov 13 10:48	18° \mathfrak{N} 55'13		evening set	11080 Oct 28 08:29	28° \mathfrak{M} 11'13	
evening set	11079 Nov 18 20:21	17° \mathfrak{N} 50'18		min. Earth dist.	11080 Nov 04 11:40	24° \mathfrak{M} 55'05	0.55153 AU
min. Earth dist.	11079 Nov 24 03:25	15° \mathfrak{N} 03'44	0.56511 AU	inferior conj	11080 Nov 05 21:28	24° \mathfrak{M} 06'24	-5°46'42
inferior conj	11079 Nov 26 17:00	13° \mathfrak{N} 25'35	-5°32'34	minimum elong	11080 Nov 05 19:28	24° \mathfrak{M} 09'17	5°46'08
minimum elong	11079 Nov 26 22:30	13° \mathfrak{N} 16'47	5°31'16	morning rise	11080 Nov 14 08:06	20° \mathfrak{M} 16'40	
morning rise	11079 Dec 05 02:52	9° \mathfrak{N} 20'49		direct	11080 Nov 17 09:01	19° \mathfrak{M} 54'57	
direct	11079 Dec 07 13:39	9° \mathfrak{N} 04'20		morning max el	11080 Nov 28 13:07	25° \mathfrak{M} 12'15	20°46'36
morning max el	11079 Dec 17 04:48	13° \mathfrak{N} 40'41	19°28'41		11080 Dec 02 20:05	0° \mathfrak{N}	
asc. node	11079 Dec 18 11:49	14° \mathfrak{N} 59'50		asc. node	11080 Dec 04 08:49	2° \mathfrak{N} 03'25	
	11079 Dec 28 12:15	0° \mathfrak{Z}		morning set	11080 Dec 17 17:47	26° \mathfrak{N} 09'06	
morning set	11080 Jan 03 10:02	11° \mathfrak{Z} 27'26			11080 Dec 19 14:15	0° \mathfrak{Z}	
superior conj	11080 Jan 11 10:34	27° \mathfrak{Z} 29'45	1°09'49	superior conj	11080 Dec 25 03:53	11° \mathfrak{Z} 33'21	1°26'47
minimum elong	11080 Jan 11 13:32	27° \mathfrak{Z} 44'15	1°10'02	minimum elong	11080 Dec 25 06:08	11° \mathfrak{Z} 44'52	1°27'12
	11080 Jan 12 17:27	0° \mathfrak{X}		max. Earth dist.	11080 Dec 30 05:03	21° \mathfrak{Z} 38'54	1.35870 AU
max. Earth dist.	11080 Jan 17 20:34	9° \mathfrak{X} 40'16	1.37956 AU	evening rise	11081 Jan 03 03:36	29° \mathfrak{Z} 07'55	
desc. node	11080 Jan 21 00:07	15° \mathfrak{X} 20'31			11081 Jan 03 14:53	0° \mathfrak{X}	
evening rise	11080 Jan 21 14:05	16° \mathfrak{X} 22'05		desc. node	11081 Jan 06 20:59	5° \mathfrak{X} 52'10	
	11080 Jan 29 16:48	0° \mathfrak{H}			11081 Jan 21 22:32	0° \mathfrak{H}	
	11080 Feb 19 20:22	0° \mathfrak{Y}		evening max el	11081 Feb 07 14:54	20° \mathfrak{H} 39'03	26°13'42
evening max el	11080 Feb 26 01:19	6° \mathfrak{Y} 50'13	25°06'09	retrograde	11081 Feb 20 09:42	27° \mathfrak{H} 54'23	
retrograde	11080 Mar 09 00:40	13° \mathfrak{Y} 47'22		evening set	11081 Feb 26 14:53	25° \mathfrak{H} 23'41	
evening set	11080 Mar 14 18:14	11° \mathfrak{Y} 24'22		asc. node	11081 Mar 02 07:15	21° \mathfrak{H} 37'12	
asc. node	11080 Mar 15 09:58	10° \mathfrak{Y} 49'09		min. Earth dist.	11081 Mar 02 19:13	21° \mathfrak{H} 01'20	0.66863 AU
min. Earth dist.	11080 Mar 19 04:50	6° \mathfrak{Y} 27'22	0.67883 AU	inferior conj	11081 Mar 04 11:31	18° \mathfrak{H} 57'26	0°41'57
inferior conj	11080 Mar 20 09:16	4° \mathfrak{Y} 54'17	1°31'55	minimum elong	11081 Mar 04 10:28	19° \mathfrak{H} 00'40	0°41'44
minimum elong	11080 Mar 20 07:21	5° \mathfrak{Y} 00'33	1°31'15	morning rise	11081 Mar 10 06:48	13° \mathfrak{H} 11'45	
	11080 Mar 24 14:18	30° \mathfrak{R} \mathfrak{H}		direct	11081 Mar 13 10:07	12° \mathfrak{H} 15'55	
morning rise	11080 Mar 25 20:47	28° \mathfrak{H} 58'49		morning max el	11081 Mar 20 00:30	15° \mathfrak{H} 48'51	18°36'37
direct	11080 Mar 29 11:07	27° \mathfrak{H} 44'26			11081 Mar 30 17:41	0° \mathfrak{Y}	
	11080 Apr 03 17:18	0° \mathfrak{Y}		desc. node	11081 Apr 04 21:58	7° \mathfrak{Y} 59'36	
morning max el	11080 Apr 05 14:32	1° \mathfrak{Y} 40'59	19°26'12	morning set	11081 Apr 10 03:20	16° \mathfrak{Y} 11'07	
desc. node	11080 Apr 18 01:16	17° \mathfrak{Y} 55'40			11081 Apr 18 22:45	0° \mathfrak{B}	
greatest brilliancy	11080 Apr 18 07:44	18° \mathfrak{Y} 19'30	-0.7m	max. Earth dist.	11081 Apr 25 17:37	10° \mathfrak{B} 36'38	1.45635 AU
	11080 Apr 26 01:36	0° \mathfrak{B}		superior conj	11081 Apr 26 06:57	11° \mathfrak{B} 28'47	-2°01'56
morning set	11080 Apr 30 11:45	6° \mathfrak{B} 47'11		minimum elong	11081 Apr 25 23:27	10° \mathfrak{B} 59'29	2°01'51
max. Earth dist.	11080 May 12 23:21	26° \mathfrak{B} 13'27	1.44955 AU		11081 May 08 01:28	0° \mathfrak{I}	
	11080 May 15 08:37	0° \mathfrak{I}		evening rise	11081 May 11 20:27	6° \mathfrak{I} 01'25	
superior conj	11080 May 16 21:57	2° \mathfrak{I} 28'34	-2°13'11	greatest brilliancy	11081 May 19 20:56	18° \mathfrak{I} 46'49	-0.9m
minimum elong	11080 May 16 21:37	2° \mathfrak{I} 27'13	2°13'44		11081 May 27 06:23	0° \mathfrak{D}	
evening rise	11080 May 31 01:03	25° \mathfrak{I} 33'07		asc. node	11081 May 29 05:04	2° \mathfrak{D} 40'21	
	11080 Jun 02 17:02	0° \mathfrak{D}		evening max el	11081 Jun 02 06:28	7° \mathfrak{D} 27'01	18°44'13
asc. node	11080 Jun 11 08:00	14° \mathfrak{D} 02'21		retrograde	11081 Jun 08 21:04	11° \mathfrak{D} 04'07	
evening max el	11080 Jun 18 18:42	23° \mathfrak{D} 49'59	18°15'15	evening set	11081 Jun 12 04:06	10° \mathfrak{D} 02'03	
retrograde	11080 Jun 25 03:29	27° \mathfrak{D} 12'35		inferior conj	11081 Jun 17 18:35	4° \mathfrak{D} 22'53	3°08'31
evening set	11080 Jun 28 02:18	26° \mathfrak{D} 25'41		minimum elong	11081 Jun 17 19:53	4° \mathfrak{D} 18'51	3°07'45
inferior conj	11080 Jul 04 01:23	21° \mathfrak{D} 02'40	2°44'46	min. Earth dist.	11081 Jun 19 15:39	2° \mathfrak{D} 03'39	0.65699 AU
minimum elong	11080 Jul 04 03:43	20° \mathfrak{D} 56'05	2°43'41		11081 Jun 21 10:30	30° \mathfrak{R} \mathfrak{I}	
min. Earth dist.	11080 Jul 06 13:22	18° \mathfrak{D} 13'31	0.63857 AU	morning rise	11081 Jun 23 10:54	28° \mathfrak{I} 02'03	
morning rise	11080 Jul 10 03:40	14° \mathfrak{D} 46'44					

direct	11081 Jun 29 21:26	25° Π 18'39		evening set	11082 May 27 10:14	23° Π 55'16	
desc. node	11081 Jul 01 22:11	25° Π 32'58		inferior conj	11082 Jun 01 19:27	18° Π 01'28	3°16'47
	11081 Jul 09 17:44	0° \mathfrak{S}		minimum elong	11082 Jun 01 19:36	18° Π 00'59	3°16'10
morning max el	11081 Jul 13 02:25	3° \mathfrak{S} 08'06	26°49'22	min. Earth dist.	11082 Jun 03 01:37	16° Π 21'57	0.67124 AU
	11081 Aug 02 09:04	0° Ω		morning rise	11082 Jun 07 04:35	11° Π 40'24	
morning set	11081 Aug 17 21:13	26° Ω 52'06		direct	11082 Jun 13 05:20	9° Π 01'05	
	11081 Aug 19 12:14	0° \mathfrak{M}		desc. node	11082 Jun 18 19:14	10° Π 49'05	
max. Earth dist.	11081 Aug 22 01:43	5° \mathfrak{M} 03'31	1.34068 AU	morning max el	11082 Jun 25 12:53	16° Π 23'32	25°36'22
asc. node	11081 Aug 25 04:59	11° \mathfrak{M} 26'34			11082 Jul 06 19:21	0° \mathfrak{S}	
					11082 Jul 26 07:05	0° Ω	
superior conj	11081 Aug 26 13:22	14° \mathfrak{M} 14'46	0°13'11	morning set	11082 Jul 31 14:01	9° Ω 20'17	
minimum elong	11081 Aug 26 12:41	14° \mathfrak{M} 11'12	0°12'48	max. Earth dist.	11082 Aug 04 06:33	16° Ω 10'58	1.35930 AU
behind sun begin	11081 Aug 26 09:12	13° \mathfrak{M} 52'57					
behind sun end	11081 Aug 26 16:11	14° \mathfrak{M} 29'28		superior conj	11082 Aug 10 05:23	27° Ω 47'42	-0°17'50
evening rise	11081 Sep 02 22:01	29° \mathfrak{M} 47'45		minimum elong	11082 Aug 10 06:30	27° Ω 53'15	0°18'01
	11081 Sep 03 00:21	0° \mathfrak{L}			11082 Aug 11 07:40	0° \mathfrak{M}	
	11081 Sep 20 12:42	0° \mathfrak{M}		asc. node	11082 Aug 12 01:47	1° \mathfrak{M} 31'43	
evening max el	11081 Sep 22 18:20	2° \mathfrak{M} 23'50	21°24'34	evening rise	11082 Aug 18 04:44	14° \mathfrak{M} 04'49	
desc. node	11081 Sep 27 19:48	6° \mathfrak{M} 22'38			11082 Aug 26 10:40	0° \mathfrak{L}	
retrograde	11081 Oct 04 21:19	8° \mathfrak{M} 25'12		evening max el	11082 Sep 04 22:34	13° \mathfrak{L} 14'44	20°03'35
evening set	11081 Oct 07 12:52	8° \mathfrak{M} 09'05		desc. node	11082 Sep 14 17:07	18° \mathfrak{L} 26'55	
inferior conj	11081 Oct 16 14:14	4° \mathfrak{M} 13'34	-5°04'03	retrograde	11082 Sep 15 10:58	18° \mathfrak{L} 28'25	
minimum elong	11081 Oct 16 05:14	4° \mathfrak{M} 26'12	5°01'53	evening set	11082 Sep 17 09:30	18° \mathfrak{L} 18'33	
min. Earth dist.	11081 Oct 16 18:36	4° \mathfrak{M} 07'28	0.54597 AU	inferior conj	11082 Sep 26 09:22	14° \mathfrak{L} 19'07	-3°31'14
morning rise	11081 Oct 24 22:26	0° \mathfrak{M} 23'57		minimum elong	11082 Sep 26 00:20	14° \mathfrak{L} 32'40	3°28'05
	11081 Oct 26 22:08	30° \mathfrak{R} \mathfrak{L}		min. Earth dist.	11082 Sep 28 03:31	13° \mathfrak{L} 15'53	0.54982 AU
direct	11081 Oct 28 17:44	29° \mathfrak{L} 52'43		morning rise	11082 Oct 04 14:01	10° \mathfrak{L} 08'18	
	11081 Oct 30 12:46	0° \mathfrak{M}		direct	11082 Oct 09 04:34	9° \mathfrak{L} 22'16	
morning max el	11081 Nov 10 08:14	5° \mathfrak{M} 53'24	22°24'27	morning max el	11082 Oct 22 20:00	16° \mathfrak{L} 03'50	24°12'06
asc. node	11081 Nov 21 05:44	20° \mathfrak{M} 01'09			11082 Nov 02 22:49	0° \mathfrak{M}	
	11081 Nov 26 19:26	0° \mathfrak{X}		asc. node	11082 Nov 08 02:37	8° \mathfrak{M} 40'14	
morning set	11081 Dec 02 04:31	10° \mathfrak{X} 56'08		morning set	11082 Nov 16 16:21	25° \mathfrak{M} 43'20	
					11082 Nov 18 15:59	0° \mathfrak{X}	
superior conj	11081 Dec 09 05:32	25° \mathfrak{X} 58'45	1°36'28	superior conj	11082 Nov 23 12:46	10° \mathfrak{X} 38'01	1°39'30
minimum elong	11081 Dec 09 06:41	26° \mathfrak{X} 04'48	1°37'02	minimum elong	11082 Nov 23 12:44	10° \mathfrak{X} 37'49	1°40'05
	11081 Dec 11 03:19	0° \mathfrak{Z}		max. Earth dist.	11082 Nov 25 19:22	15° \mathfrak{X} 33'34	1.32723 AU
max. Earth dist.	11081 Dec 12 20:16	3° \mathfrak{Z} 32'16	1.34088 AU	evening rise	11082 Nov 30 23:42	26° \mathfrak{X} 23'15	
evening rise	11081 Dec 17 07:57	12° \mathfrak{Z} 31'10			11082 Dec 02 19:05	0° \mathfrak{Z}	
desc. node	11081 Dec 24 17:55	26° \mathfrak{Z} 12'01		desc. node	11082 Dec 11 14:56	16° \mathfrak{Z} 14'24	
	11081 Dec 26 23:01	0° \mathfrak{A}			11082 Dec 20 07:45	0° \mathfrak{A}	
	11082 Jan 17 01:50	0° \mathfrak{H}		evening max el	11083 Jan 03 16:40	17° \mathfrak{A} 34'37	27°29'23
evening max el	11082 Jan 21 04:27	4° \mathfrak{H} 17'40	27°03'48	retrograde	11083 Jan 17 09:22	24° \mathfrak{A} 56'59	
retrograde	11082 Feb 03 12:48	11° \mathfrak{H} 40'27		evening set	11083 Jan 24 07:42	22° \mathfrak{A} 27'32	
evening set	11082 Feb 10 04:10	9° \mathfrak{H} 06'59		min. Earth dist.	11083 Jan 28 02:26	19° \mathfrak{A} 10'05	0.63725 AU
min. Earth dist.	11082 Feb 14 03:05	5° \mathfrak{H} 18'25	0.65463 AU	inferior conj	11083 Jan 30 17:53	16° \mathfrak{A} 27'57	-1°25'43
inferior conj	11082 Feb 16 07:16	2° \mathfrak{H} 50'46	-0°17'27	minimum elong	11083 Jan 30 20:38	16° \mathfrak{A} 20'55	1°24'07
minimum elong	11082 Feb 16 07:46	2° \mathfrak{H} 49'22	0°16'54	asc. node	11083 Feb 04 01:45	12° \mathfrak{A} 31'14	
asc. node	11082 Feb 17 04:30	1° \mathfrak{H} 51'05		morning rise	11083 Feb 06 11:38	11° \mathfrak{A} 09'35	
	11082 Feb 18 22:43	30° \mathfrak{R} \mathfrak{A}		direct	11083 Feb 08 21:38	10° \mathfrak{A} 40'50	
morning rise	11082 Feb 22 12:45	27° \mathfrak{A} 17'22		morning max el	11083 Feb 15 09:16	14° \mathfrak{A} 01'33	17°48'10
direct	11082 Feb 25 06:32	26° \mathfrak{A} 36'53			11083 Feb 26 13:34	0° \mathfrak{H}	
morning max el	11082 Mar 03 15:40	29° \mathfrak{A} 58'13	18°03'48	morning set	11083 Mar 03 22:32	9° \mathfrak{H} 08'35	
	11082 Mar 03 16:24	0° \mathfrak{H}		desc. node	11083 Mar 09 15:21	18° \mathfrak{H} 50'06	
morning set	11082 Mar 21 23:15	27° \mathfrak{H} 00'17			11083 Mar 16 09:01	0° \mathfrak{Y}	
desc. node	11082 Mar 22 18:39	28° \mathfrak{H} 19'25					
	11082 Mar 23 19:21	0° \mathfrak{Y}		superior conj	11083 Mar 16 16:53	0° \mathfrak{Y} 32'04	-0°51'27
superior conj	11082 Apr 05 15:34	20° \mathfrak{Y} 34'59	-1°31'58	minimum elong	11083 Mar 16 11:24	0° \mathfrak{Y} 09'46	0°50'38
minimum elong	11082 Apr 05 06:19	19° \mathfrak{Y} 58'32	1°31'10	max. Earth dist.	11083 Mar 22 08:47	9° \mathfrak{Y} 38'08	1.44764 AU
max. Earth dist.	11082 Apr 08 13:50	25° \mathfrak{Y} 11'08	1.45564 AU	evening rise	11083 Apr 01 06:01	25° \mathfrak{Y} 02'48	
	11082 Apr 11 15:45	0° \mathfrak{B}			11083 Apr 04 11:53	0° \mathfrak{B}	
evening rise	11082 Apr 21 18:29	15° \mathfrak{B} 41'23			11083 Apr 25 09:20	0° Π	
	11082 May 01 02:03	0° Π		evening max el	11083 Apr 29 15:51	4° Π 52'23	20°30'37
greatest brilliancy	11082 May 04 19:27	5° Π 36'33	-0.7m	asc. node	11083 May 02 23:25	7° Π 45'11	
asc. node	11082 May 16 02:13	20° Π 38'57		retrograde	11083 May 07 17:23	9° Π 33'15	
evening max el	11082 May 16 13:57	21° Π 09'09	19°29'58	evening set	11083 May 11 18:29	7° Π 59'30	
retrograde	11082 May 23 18:32	25° Π 13'09		inferior conj	11083 May 17 01:18	1° Π 52'47	3°12'17

minimum elong	11083 May 17 00:24	1°Ⅱ55'50	3°11'40	retrograde	11084 Apr 20 15:35	23°Ⅲ59'57	
min. Earth dist.	11083 May 17 17:23	0°Ⅱ57'31	0.68096 AU	evening set	11084 Apr 25 03:02	22°Ⅲ10'44	
	11083 May 18 10:19	30°Ⅲ		inferior conj	11084 Apr 30 09:50	15°Ⅲ53'20	2°56'48
morning rise	11083 May 22 06:05	25°Ⅲ34'27		minimum elong	11084 Apr 30 08:10	15°Ⅲ59'09	2°56'06
direct	11083 May 27 18:42	23°Ⅲ07'26		min. Earth dist.	11084 Apr 30 12:49	15°Ⅲ42'58	0.68613 AU
desc. node	11083 Jun 05 16:13	27°Ⅲ38'56		morning rise	11084 May 05 13:06	9°Ⅲ39'38	
morning max el	11083 Jun 07 22:41	29°Ⅲ48'39	24°09'59	direct	11084 May 10 12:33	7°Ⅲ30'36	
	11083 Jun 08 03:08	0°Ⅱ		morning max el	11084 May 20 09:25	13°Ⅲ20'39	22°40'04
	11083 Jun 30 15:22	0°Ⅲ		desc. node	11084 May 22 13:09	15°Ⅲ37'52	
morning set	11083 Jul 13 11:38	20°Ⅲ54'15			11084 Jun 02 18:42	0°Ⅱ	
max. Earth dist.	11083 Jul 17 04:24	27°Ⅲ24'04	1.38120 AU		11084 Jun 22 13:10	0°Ⅲ	
	11083 Jul 18 15:03	0°Ⅲ		morning set	11084 Jun 23 09:04	1°Ⅲ21'21	
				max. Earth dist.	11084 Jun 28 01:49	9°Ⅲ12'06	1.40421 AU
superior conj	11083 Jul 24 09:25	10°Ⅲ44'10	-0°51'13	superior conj	11084 Jul 05 21:20	22°Ⅲ54'44	-1°24'17
minimum elong	11083 Jul 24 12:52	11°Ⅲ00'39	0°51'07	minimum elong	11084 Jul 06 03:04	23°Ⅲ20'43	1°24'05
asc. node	11083 Jul 29 22:36	21°Ⅲ32'20			11084 Jul 09 18:02	0°Ⅲ	
evening rise	11083 Aug 02 05:27	28°Ⅲ02'09		evening rise	11084 Jul 15 20:55	11°Ⅲ31'21	
	11083 Aug 03 05:22	0°Ⅲ		asc. node	11084 Jul 15 19:29	11°Ⅲ24'33	
evening max el	11083 Aug 18 16:27	24°Ⅲ53'03	19°03'35		11084 Jul 26 06:00	0°Ⅲ	
retrograde	11083 Aug 27 13:40	29°Ⅲ18'45		evening max el	11084 Jul 31 21:01	7°Ⅲ14'11	18°24'50
evening set	11083 Aug 29 10:20	29°Ⅲ07'52		retrograde	11084 Aug 08 11:03	11°Ⅲ02'54	
desc. node	11083 Sep 01 14:27	28°Ⅲ03'55		evening set	11084 Aug 10 13:32	10°Ⅲ46'07	
inferior conj	11083 Sep 06 19:59	24°Ⅲ53'51	-1°38'04	inferior conj	11084 Aug 18 04:02	6°Ⅲ12'05	0°05'56
minimum elong	11083 Sep 06 15:44	25°Ⅲ01'10	1°36'30	minimum elong	11084 Aug 18 04:15	6°Ⅲ11'40	0°05'32
min. Earth dist.	11083 Sep 09 16:48	22°Ⅲ55'58	0.56248 AU	transit middle	11084 Aug 18 04:15	6°Ⅲ11'40	0°05'32
morning rise	11083 Sep 14 18:03	20°Ⅲ07'19		transit begin	11084 Aug 18 00:55	6°Ⅲ18'21	
direct	11083 Sep 20 03:56	18°Ⅲ58'42		transit end	11084 Aug 18 07:34	6°Ⅲ04'58	
morning max el	11083 Oct 04 08:21	26°Ⅲ14'16	25°52'51	desc. node	11084 Aug 18 11:47	5°Ⅲ56'26	
	11083 Oct 07 22:26	0°Ⅲ		min. Earth dist.	11084 Aug 21 12:00	3°Ⅲ32'17	0.58164 AU
asc. node	11083 Oct 25 23:28	27°Ⅲ50'11		morning rise	11084 Aug 25 15:25	0°Ⅲ49'10	
	11083 Oct 27 02:06	0°Ⅲ			11084 Aug 27 11:22	30°Ⅲ	
morning set	11083 Nov 01 03:34	10°Ⅲ25'48		direct	11084 Aug 31 18:01	29°Ⅲ12'04	
superior conj	11083 Nov 07 23:16	25°Ⅲ24'14	1°36'25		11084 Sep 05 02:58	0°Ⅲ	
minimum elong	11083 Nov 07 22:11	25°Ⅲ18'16	1°36'52	morning max el	11084 Sep 15 02:24	6°Ⅲ51'51	27°09'36
max. Earth dist.	11083 Nov 09 00:49	27°Ⅲ45'36	1.31827 AU		11084 Oct 02 09:25	0°Ⅲ	
	11083 Nov 10 01:14	0°Ⅲ		asc. node	11084 Oct 11 20:16	17°Ⅲ22'29	
evening rise	11083 Nov 14 23:49	10°Ⅲ36'36		morning set	11084 Oct 15 12:28	24°Ⅲ58'13	
	11083 Nov 25 01:17	0°Ⅲ			11084 Oct 17 20:33	0°Ⅲ	
desc. node	11083 Nov 28 12:02	5°Ⅲ51'56		superior conj	11084 Oct 22 10:59	10°Ⅲ10'39	1°27'37
	11083 Dec 16 18:02	0°Ⅲ		minimum elong	11084 Oct 22 09:09	10°Ⅲ00'23	1°27'48
evening max el	11083 Dec 17 01:31	0°Ⅲ17'50	27°24'31	max. Earth dist.	11084 Oct 22 09:39	10°Ⅲ03'12	1.31424 AU
retrograde	11083 Dec 30 22:39	7°Ⅲ34'39		evening rise	11084 Oct 29 05:44	25°Ⅲ03'49	
evening set	11084 Jan 06 22:33	5°Ⅲ18'06			11084 Oct 31 14:17	0°Ⅲ	
min. Earth dist.	11084 Jan 10 15:52	2°Ⅲ25'48	0.61726 AU	desc. node	11084 Nov 14 09:12	24°Ⅲ53'58	
	11084 Jan 13 08:12	30°Ⅲ			11084 Nov 17 20:14	0°Ⅲ	
inferior conj	11084 Jan 13 16:18	29°Ⅲ41'30	-2°40'44	evening max el	11084 Nov 28 04:29	12°Ⅲ15'13	26°45'30
minimum elong	11084 Jan 13 21:45	29°Ⅲ29'06	2°38'05	retrograde	11084 Dec 12 03:05	19°Ⅲ23'34	
morning rise	11084 Jan 20 23:36	24°Ⅲ41'07		evening set	11084 Dec 18 20:41	17°Ⅲ29'28	
asc. node	11084 Jan 21 22:57	24°Ⅲ26'51		min. Earth dist.	11084 Dec 22 18:42	14°Ⅲ52'02	0.59602 AU
direct	11084 Jan 23 04:08	24°Ⅲ20'23		inferior conj	11084 Dec 25 22:54	12°Ⅲ21'01	-3°57'21
morning max el	11084 Jan 30 02:06	27°Ⅲ50'18	17°50'22	minimum elong	11084 Dec 26 06:38	12°Ⅲ05'38	3°54'17
	11084 Feb 01 01:24	0°Ⅲ		morning rise	11085 Jan 02 19:21	7°Ⅲ41'16	
morning set	11084 Feb 14 19:09	22°Ⅲ17'42		direct	11085 Jan 04 21:59	7°Ⅲ24'54	
	11084 Feb 19 02:24	0°Ⅲ		asc. node	11085 Jan 07 20:07	7°Ⅲ57'52	
desc. node	11084 Feb 24 12:04	9°Ⅲ27'59		morning max el	11085 Jan 12 14:28	11°Ⅲ13'24	18°11'44
superior conj	11084 Feb 25 18:46	11°Ⅲ39'39	-0°09'46		11085 Jan 25 00:02	0°Ⅲ	
minimum elong	11084 Feb 25 17:53	11°Ⅲ35'53	0°09'22	morning set	11085 Jan 28 06:53	6°Ⅲ08'18	
behind sun begin	11084 Feb 25 10:52	11°Ⅲ05'52		superior conj	11085 Feb 06 20:10	23°Ⅲ52'42	0°27'07
behind sun end	11084 Feb 26 00:54	12°Ⅲ05'50		minimum elong	11085 Feb 06 22:10	24°Ⅲ01'44	0°27'13
max. Earth dist.	11084 Mar 04 00:03	23°Ⅲ41'49	1.43331 AU	desc. node	11085 Feb 10 08:49	0°Ⅲ08'44	
	11084 Mar 07 22:09	0°Ⅲ			11085 Feb 10 06:49	0°Ⅲ	
evening rise	11084 Mar 10 22:44	4°Ⅲ45'43		max. Earth dist.	11085 Feb 14 10:51	7°Ⅲ10'16	1.41418 AU
	11084 Mar 27 20:29	0°Ⅲ		evening rise	11085 Feb 19 08:23	15°Ⅲ16'39	
evening max el	11084 Apr 11 12:17	18°Ⅲ36'55	21°42'54		11085 Feb 28 18:17	0°Ⅲ	
asc. node	11084 Apr 18 20:39	23°Ⅲ44'28					

	11085 Mar 22 22:03	0°♄			11086 Feb 02 13:54	0°♄		
evening max el	11085 Mar 25 04:35	2°♄23'51	23°02'08		11086 Feb 22 08:27	0°♄		
retrograde	11085 Apr 04 11:30	8°♄28'24		evening max el	11086 Mar 07 18:34	16°♄13'23	24°22'16	
asc. node	11085 Apr 05 17:56	8°♄20'44		retrograde	11086 Mar 19 03:56	22°♄53'35		
evening set	11085 Apr 09 10:17	6°♄24'35		asc. node	11086 Mar 23 15:13	21°♄22'20		
inferior conj	11085 Apr 14 19:04	29°♄59'20	2°31'21	evening set	11086 Mar 24 14:43	20°♄36'44		
minimum elong	11085 Apr 14 16:57	0°♄06'40	2°30'33	min. Earth dist.	11086 Mar 29 05:30	15°♄19'46	0.68299 AU	
min. Earth dist.	11085 Apr 14 09:35	0°♄32'09	0.68676 AU	inferior conj	11086 Mar 30 03:05	14°♄07'17	1°56'20	
	11085 Apr 14 18:52	30°♄		minimum elong	11086 Mar 30 00:57	14°♄14'27	1°55'34	
morning rise	11085 Apr 19 23:29	23°♄51'46		morning rise	11086 Apr 04 11:18	8°♄07'10		
direct	11085 Apr 24 09:39	22°♄03'46		direct	11086 Apr 08 08:38	6°♄40'50		
morning max el	11085 May 03 00:31	27°♄02'13	21°15'21	morning max el	11086 Apr 15 22:49	10°♄56'06	20°01'54	
	11085 May 05 18:31	0°♄		desc. node	11086 Apr 26 06:47	23°♄52'32		
desc. node	11085 May 09 10:00	4°♄26'57			11086 Apr 30 12:37	0°♄		
	11085 May 27 07:15	0°♄		morning set	11086 May 13 05:27	19°♄10'00		
morning set	11085 Jun 03 04:19	10°♄38'07			11086 May 20 04:32	0°♄		
max. Earth dist.	11085 Jun 10 05:04	21°♄54'59	1.42552 AU	max. Earth dist.	11086 May 23 15:45	5°♄29'27	1.44253 AU	
	11085 Jun 15 01:52	0°♄						
superior conj	11085 Jun 17 12:38	4°♄09'42	-1°52'43	superior conj	11086 May 29 03:55	14°♄22'06	-2°10'27	
minimum elong	11085 Jun 17 19:09	4°♄37'36	1°52'47	minimum elong	11086 May 29 07:24	14°♄36'20	2°10'58	
evening rise	11085 Jun 28 23:06	24°♄22'34			11086 Jun 07 13:09	0°♄		
	11085 Jul 02 02:05	0°♄		evening rise	11086 Jun 11 07:09	6°♄24'14		
asc. node	11085 Jul 02 16:25	1°♄04'03		asc. node	11086 Jun 19 13:24	20°♄25'06		
evening max el	11085 Jul 15 08:05	20°♄08'15	18°06'11		11086 Jun 25 22:43	0°♄		
retrograde	11085 Jul 22 02:17	23°♄35'14		evening max el	11086 Jun 28 21:48	3°♄24'44	18°06'35	
evening set	11085 Jul 24 12:36	23°♄08'44		retrograde	11086 Jul 05 07:13	6°♄45'03		
inferior conj	11085 Jul 31 08:57	18°♄14'07	1°26'43	evening set	11086 Jul 08 01:26	6°♄06'08		
minimum elong	11085 Jul 31 11:21	18°♄08'32	1°25'28	inferior conj	11086 Jul 14 07:07	0°♄52'38	2°22'39	
min. Earth dist.	11085 Aug 03 14:48	15°♄13'26	0.60399 AU	minimum elong	11086 Jul 14 09:47	0°♄45'31	2°21'24	
desc. node	11085 Aug 05 09:05	13°♄44'42			11086 Jul 15 02:47	30°♄		
morning rise	11085 Aug 07 07:13	12°♄22'39		min. Earth dist.	11086 Jul 17 02:43	27°♄53'42	0.62650 AU	
direct	11085 Aug 13 20:27	10°♄17'16		morning rise	11086 Jul 20 16:13	24°♄42'50		
morning max el	11085 Aug 28 03:39	18°♄12'25	27°51'12	desc. node	11086 Jul 23 06:19	23°♄10'06		
	11085 Sep 07 01:01	0°♄		direct	11086 Jul 27 09:05	22°♄14'55		
	11085 Sep 25 02:56	0°♄			11086 Aug 10 03:48	0°♄		
asc. node	11085 Sep 28 17:02	7°♄10'43		morning max el	11086 Aug 10 10:44	0°♄17'15	27°54'10	
morning set	11085 Sep 29 17:15	9°♄16'02			11086 Sep 01 03:03	0°♄		
max. Earth dist.	11085 Oct 05 18:21	22°♄17'54	1.31516 AU	morning set	11086 Sep 13 15:47	23°♄12'44		
				asc. node	11086 Sep 15 13:47	27°♄08'51		
superior conj	11085 Oct 06 22:09	24°♄51'50	1°13'21		11086 Sep 16 22:29	0°♄		
minimum elong	11085 Oct 06 19:56	24°♄39'30	1°13'14	max. Earth dist.	11086 Sep 18 22:51	4°♄17'47	1.32105 AU	
	11085 Oct 09 05:39	0°♄						
evening rise	11085 Oct 13 15:19	9°♄39'04		superior conj	11086 Sep 21 06:50	9°♄21'23	0°53'49	
	11085 Oct 23 22:56	0°♄		minimum elong	11086 Sep 21 04:43	9°♄09'51	0°53'28	
desc. node	11085 Nov 01 06:25	13°♄06'45		evening rise	11086 Sep 28 02:33	24°♄15'46		
evening max el	11085 Nov 09 23:24	23°♄20'46	25°33'55		11086 Sep 30 19:43	0°♄		
	11085 Nov 20 22:00	0°♄			11086 Oct 18 23:58	0°♄		
retrograde	11085 Nov 23 20:29	0°♄20'14		desc. node	11086 Oct 19 03:40	0°♄10'48		
	11085 Nov 26 18:53	30°♄		evening max el	11086 Oct 22 11:02	3°♄41'28	23°59'31	
evening set	11085 Nov 29 21:29	28°♄56'13		retrograde	11086 Nov 05 01:42	10°♄29'47		
min. Earth dist.	11085 Dec 04 11:42	26°♄18'32	0.57560 AU	evening set	11086 Nov 09 21:54	9°♄38'29		
inferior conj	11085 Dec 07 10:23	24°♄17'05	-5°04'44	min. Earth dist.	11086 Nov 15 21:37	6°♄41'42	0.55855 AU	
minimum elong	11085 Dec 07 18:02	24°♄03'53	5°02'31	inferior conj	11086 Nov 18 01:17	5°♄23'29	-5°44'43	
morning rise	11085 Dec 15 16:56	19°♄59'46		minimum elong	11086 Nov 18 04:03	5°♄19'16	5°44'00	
direct	11085 Dec 17 23:00	19°♄44'14		morning rise	11086 Nov 26 12:12	1°♄26'43		
asc. node	11085 Dec 25 17:12	23°♄02'30		direct	11086 Nov 29 04:25	1°♄08'28		
morning max el	11085 Dec 26 18:32	24°♄00'14	18°54'04	morning max el	11086 Dec 09 10:43	6°♄00'54	19°59'08	
	11085 Dec 31 17:11	0°♄		asc. node	11086 Dec 12 14:13	9°♄27'05		
morning set	11086 Jan 12 05:00	20°♄26'18			11086 Dec 24 22:01	0°♄		
	11086 Jan 17 01:49	0°♄		morning set	11086 Dec 27 10:00	5°♄01'37		
superior conj	11086 Jan 20 16:43	6°♄58'54	0°56'32	superior conj	11087 Jan 04 03:38	20°♄45'11	1°17'57	
minimum elong	11086 Jan 20 19:43	7°♄13'11	0°56'38	minimum elong	11087 Jan 04 06:23	20°♄58'50	1°18'14	
max. Earth dist.	11086 Jan 27 18:03	19°♄57'46	1.39240 AU		11087 Jan 08 21:19	0°♄		
desc. node	11086 Jan 28 05:36	20°♄48'51		max. Earth dist.	11087 Jan 10 00:37	2°♄09'10	1.37042 AU	
evening rise	11086 Jan 31 15:19	26°♄43'23		evening rise	11087 Jan 13 18:31	9°♄02'28		
				desc. node	11087 Jan 15 02:26	11°♄24'51		

	11087 Jan 26 07:45	0° H		desc. node	11088 Jan 01 23:18	1° \approx 52'07	
	11087 Feb 18 06:24	0° Y			11088 Jan 20 02:41	0° H	
evening max el	11087 Feb 18 07:51	0° Y 03'34	25°36'29	evening max el	11088 Jan 31 21:16	13° H 48'41	26°37'34
retrograde	11087 Mar 02 15:58	7° Y 09'48		retrograde	11088 Feb 13 22:46	21° H 09'19	
evening set	11087 Mar 08 14:44	4° Y 42'43		evening set	11088 Feb 20 08:32	18° H 36'28	
asc. node	11087 Mar 10 12:29	2° Y 52'31		min. Earth dist.	11088 Feb 24 10:19	14° H 28'47	0.66307 AU
	11087 Mar 12 22:43	30° R H		asc. node	11088 Feb 25 09:46	13° H 19'21	
min. Earth dist.	11087 Mar 12 22:27	0° Y 00'51	0.67499 AU	inferior conj	11088 Feb 26 07:48	12° H 13'26	0°17'54
inferior conj	11087 Mar 14 08:01	28° H 13'39	1°11'53	minimum elong	11088 Feb 26 07:19	12° H 14'53	0°17'58
minimum elong	11087 Mar 14 06:24	28° H 18'51	1°11'22	morning rise	11088 Mar 03 07:09	6° H 32'51	
morning rise	11087 Mar 19 22:34	22° H 22'25		direct	11088 Mar 06 06:08	5° H 44'09	
direct	11087 Mar 23 08:03	21° H 16'21		morning max el	11088 Mar 12 17:30	9° H 11'00	18°20'35
morning max el	11087 Mar 30 04:57	25° H 01'04	19°03'09		11088 Mar 27 12:46	0° Y	
	11087 Apr 03 13:00	0° Y		desc. node	11088 Mar 30 00:11	3° Y 56'15	
greatest brilliancy	11087 Apr 12 11:46	12° Y 45'25	-0.7m	morning set	11088 Apr 01 12:28	7° Y 56'37	
desc. node	11087 Apr 13 03:30	13° Y 44'53			11088 Apr 15 11:21	0° B	
morning set	11087 Apr 22 09:29	27° Y 58'01					
	11087 Apr 23 16:59	0° B		superior conj	11088 Apr 17 03:38	2° B 37'36	-1°51'08
max. Earth dist.	11087 May 06 07:56	19° B 40'01	1.45332 AU	minimum elong	11088 Apr 16 18:31	2° B 01'56	1°50'42
				max. Earth dist.	11088 Apr 18 02:54	4° B 08'29	1.45693 AU
superior conj	11087 May 08 21:07	23° B 40'41	-2°10'57	evening rise	11088 May 03 02:06	27° B 32'48	
minimum elong	11087 May 08 17:29	23° B 26'24	2°11'20		11088 May 04 15:37	0° II	
	11087 May 12 20:53	0° II		greatest brilliancy	11088 May 13 10:46	13° II 43'22	-0.8m
evening rise	11087 May 23 16:38	17° II 27'52		asc. node	11088 May 23 07:34	27° II 44'21	
	11087 May 31 09:18	0° E			11088 May 25 07:10	0° E	
asc. node	11087 Jun 06 10:27	9° E 21'34		evening max el	11088 May 25 21:09	0° E 36'03	19°01'43
evening max el	11087 Jun 12 11:01	16° E 56'20	18°25'20	retrograde	11088 Jun 01 16:57	4° E 23'29	
retrograde	11087 Jun 18 21:20	20° E 23'53		evening set	11088 Jun 05 03:29	3° E 14'57	
evening set	11087 Jun 21 23:31	19° E 30'43			11088 Jun 08 14:35	30° R II	
inferior conj	11087 Jun 27 18:30	14° E 00'25	2°56'57	inferior conj	11088 Jun 10 15:22	27° II 29'28	3°13'43
minimum elong	11087 Jun 27 20:26	13° E 54'43	2°56'00	minimum elong	11088 Jun 10 16:10	27° II 26'53	3°13'02
min. Earth dist.	11087 Jun 30 00:10	11° E 22'24	0.64686 AU	min. Earth dist.	11088 Jun 12 06:06	25° II 25'58	0.66359 AU
morning rise	11087 Jul 03 16:12	7° E 41'21		morning rise	11088 Jun 16 04:15	21° II 07'49	
direct	11087 Jul 10 06:24	5° E 00'25		direct	11088 Jun 22 11:01	18° II 24'45	
desc. node	11087 Jul 10 03:28	5° E 00'28		desc. node	11088 Jun 26 00:33	19° II 08'59	
morning max el	11087 Jul 23 21:04	12° E 59'14	27°21'27	morning max el	11088 Jul 05 07:52	26° II 05'27	26°20'27
	11087 Aug 06 12:59	0° O			11088 Jul 08 22:13	0° E	
	11087 Aug 24 17:17	0° M			11088 Jul 30 02:23	0° O	
morning set	11087 Aug 28 05:30	6° M 42'15		morning set	11088 Aug 10 07:07	19° O 36'13	
max. Earth dist.	11087 Sep 01 19:26	15° M 54'42	1.33205 AU	max. Earth dist.	11088 Aug 14 05:34	27° O 07'59	1.34804 AU
asc. node	11087 Sep 02 10:33	17° M 12'52			11088 Aug 15 16:28	0° M	
superior conj	11087 Sep 05 11:01	23° M 34'07	0°29'19	superior conj	11088 Aug 19 08:20	7° M 24'07	0°00'24
minimum elong	11087 Sep 05 09:37	23° M 26'40	0°28'54	minimum elong	11088 Aug 19 08:20	7° M 24'05	0°00'06
	11087 Sep 08 11:00	0° A		behind sun begin	11088 Aug 19 02:27	6° M 53'56	
evening rise	11087 Sep 12 13:38	8° A 49'07		behind sun end	11088 Aug 19 14:12	7° M 54'18	
	11087 Sep 23 13:12	0° M		asc. node	11088 Aug 19 07:20	7° M 19'01	
evening max el	11087 Oct 03 22:25	13° M 46'49	22°18'47	evening rise	11088 Aug 26 22:35	23° M 14'02	
desc. node	11087 Oct 06 00:58	15° M 41'03			11088 Aug 30 05:58	0° A	
retrograde	11087 Oct 16 19:19	20° M 11'09		evening max el	11088 Sep 14 19:04	24° A 14'59	20°47'47
evening set	11087 Oct 20 03:54	19° M 46'13		desc. node	11088 Sep 21 22:18	29° A 08'29	
min. Earth dist.	11087 Oct 28 04:49	16° M 12'23	0.54799 AU	retrograde	11088 Sep 26 06:45	29° A 56'53	
inferior conj	11087 Oct 28 23:16	15° M 46'23	-5°35'52	evening set	11088 Sep 28 12:35	29° A 44'46	
minimum elong	11087 Oct 28 17:43	15° M 54'13	5°34'50	inferior conj	11088 Oct 07 15:18	25° A 49'32	-4°29'25
morning rise	11087 Nov 06 09:03	11° M 59'16		minimum elong	11088 Oct 07 05:21	26° A 03'44	4°26'30
direct	11087 Nov 09 17:14	11° M 34'15		min. Earth dist.	11088 Oct 08 12:44	25° A 18'55	0.54638 AU
morning max el	11087 Nov 21 13:10	17° M 10'07	21°26'22	morning rise	11088 Oct 15 22:04	21° A 52'58	
asc. node	11087 Nov 29 11:11	26° M 55'16		direct	11088 Oct 20 01:26	21° A 16'08	
	11087 Dec 01 10:05	0° J		morning max el	11088 Nov 02 04:18	27° A 35'47	23°09'57
morning set	11087 Dec 11 19:15	19° J 46'09			11088 Nov 04 13:11	0° M	
	11087 Dec 16 15:45	0° B		asc. node	11088 Nov 15 08:06	15° M 12'27	
					11088 Nov 23 02:23	0° J	
superior conj	11087 Dec 19 00:53	4° B 59'23	1°31'43	morning set	11088 Nov 25 06:41	4° J 34'11	
minimum elong	11087 Dec 19 02:42	5° B 08'47	1°32'14				
max. Earth dist.	11087 Dec 23 11:18	14° B 02'04	1.35056 AU	superior conj	11088 Dec 02 05:16	19° J 32'13	1°38'31
evening rise	11087 Dec 27 14:44	22° B 05'14		minimum elong	11088 Dec 02 05:54	19° J 35'38	1°39'07
	11087 Dec 31 22:01	0° \approx		max. Earth dist.	11088 Dec 05 05:43	25° J 57'17	1.33447 AU

	11088 Dec 07 04:28	0°♄		max. Earth dist.	11089 Nov 18 07:55	8°♄03'43	1.32287 AU
evening rise	11088 Dec 10 00:24	5°♄42'36		evening rise	11089 Nov 23 20:04	19°♄44'47	
desc. node	11088 Dec 18 20:18	22°♄05'49			11089 Nov 29 00:39	0°♄	
	11088 Dec 23 13:57	0°♄		desc. node	11089 Dec 05 17:22	11°♄58'44	
evening max el	11089 Jan 13 10:32	27°♄20'15	27°18'08		11089 Dec 17 18:08	0°♄	
	11089 Jan 16 10:41	0°♄		evening max el	11089 Dec 26 21:52	10°♄25'08	27°31'25
retrograde	11089 Jan 26 23:23	4°♄44'12		retrograde	11090 Jan 09 16:50	17°♄44'51	
evening set	11089 Feb 02 18:01	2°♄11'40		evening set	11090 Jan 16 16:31	15°♄20'09	
	11089 Feb 05 06:19	30°♄		min. Earth dist.	11090 Jan 20 10:20	12°♄14'06	0.62900 AU
min. Earth dist.	11089 Feb 06 14:59	28°♄36'32	0.64758 AU	inferior conj	11090 Jan 23 05:53	9°♄29'42	-1°56'55
inferior conj	11089 Feb 09 00:03	26°♄01'24	-0°45'22	minimum elong	11090 Jan 23 09:44	9°♄20'15	1°54'50
minimum elong	11089 Feb 09 01:25	25°♄57'40	0°44'24	asc. node	11090 Jan 29 04:14	4°♄45'11	
asc. node	11089 Feb 11 07:01	23°♄37'36		morning rise	11090 Jan 30 05:16	4°♄18'17	
morning rise	11089 Feb 15 10:31	20°♄33'50		direct	11090 Feb 01 12:40	3°♄53'17	
direct	11089 Feb 18 00:39	19°♄58'53		morning max el	11090 Feb 08 03:39	7°♄16'48	17°46'50
morning max el	11089 Feb 24 10:03	23°♄19'02	17°54'56		11090 Feb 23 02:39	0°♄	
	11089 Mar 01 19:28	0°♄		morning set	11090 Feb 24 05:52	1°♄58'50	
morning set	11089 Mar 13 20:39	19°♄21'41		desc. node	11090 Mar 03 17:37	14°♄55'58	
desc. node	11089 Mar 16 20:53	24°♄21'30					
	11089 Mar 20 07:07	0°♄		superior conj	11090 Mar 08 05:08	22°♄27'45	-0°33'28
superior conj	11089 Mar 27 17:43	12°♄01'28	-1°15'29	minimum elong	11090 Mar 08 01:43	22°♄13'37	0°32'48
minimum elong	11089 Mar 27 09:40	11°♄29'22	1°14'34		11090 Mar 12 19:31	0°♄	
max. Earth dist.	11089 Mar 31 22:28	18°♄40'21	1.45314 AU	max. Earth dist.	11090 Mar 14 16:30	3°♄01'00	1.44230 AU
	11089 Apr 08 04:48	0°♄		evening rise	11090 Mar 23 05:48	16°♄26'59	
evening rise	11089 Apr 12 17:50	7°♄00'00			11090 Apr 01 04:34	0°♄	
greatest brilliancy	11089 Apr 27 09:27	29°♄06'30	-0.6m	evening max el	11090 Apr 22 02:02	28°♄04'03	21°00'13
	11089 Apr 28 00:10	0°♄			11090 Apr 24 03:44	0°♄	
evening max el	11089 May 09 02:25	14°♄19'18	19°54'11	asc. node	11090 Apr 27 01:55	2°♄02'54	
asc. node	11089 May 10 04:44	15°♄22'32		retrograde	11090 Apr 30 13:52	3°♄01'55	
retrograde	11089 May 16 15:10	18°♄37'45		evening set	11090 May 04 19:21	1°♄21'23	
evening set	11089 May 20 10:45	17°♄13'12			11090 May 06 06:23	30°♄	
inferior conj	11089 May 25 18:40	11°♄13'58	3°16'17	inferior conj	11090 May 10 01:54	25°♄09'58	3°06'58
minimum elong	11089 May 25 18:21	11°♄15'02	3°15'41	minimum elong	11090 May 10 00:39	25°♄14'19	3°06'19
min. Earth dist.	11089 May 26 18:48	9°♄52'44	0.67600 AU	min. Earth dist.	11090 May 10 12:17	24°♄33'59	0.68377 AU
morning rise	11089 May 31 01:36	4°♄53'50		morning rise	11090 May 15 05:44	18°♄53'41	
direct	11089 Jun 05 21:31	2°♄18'35		direct	11090 May 20 12:54	16°♄33'49	
desc. node	11089 Jun 12 21:35	5°♄08'18		desc. node	11090 May 30 18:34	22°♄30'42	
morning max el	11089 Jun 17 17:44	9°♄24'53	25°00'30	morning max el	11090 May 31 03:33	22°♄53'10	23°31'38
	11089 Jul 03 23:31	0°♄			11090 Jun 06 09:25	0°♄	
	11089 Jul 22 17:06	0°♄		morning set	11090 Jun 27 07:37	0°♄	
morning set	11089 Jul 23 16:21	1°♄42'54		max. Earth dist.	11090 Jul 05 04:15	12°♄50'04	
max. Earth dist.	11089 Jul 27 06:25	8°♄12'53	1.36832 AU		11090 Jul 09 03:44	19°♄40'12	1.39108 AU
					11090 Jul 14 21:55	0°♄	
superior conj	11089 Aug 02 19:44	20°♄43'03	-0°31'51	superior conj	11090 Jul 16 17:31	3°♄22'02	-1°05'29
minimum elong	11089 Aug 02 21:47	20°♄53'08	0°31'54	minimum elong	11090 Jul 16 22:00	3°♄43'00	1°05'19
asc. node	11089 Aug 06 04:09	27°♄22'56		asc. node	11090 Jul 24 01:01	17°♄21'02	
	11089 Aug 07 11:20	0°♄		evening rise	11090 Jul 26 00:21	21°♄10'53	
evening rise	11089 Aug 11 03:05	7°♄23'40			11090 Jul 30 15:07	0°♄	
	11089 Aug 23 17:17	0°♄		evening max el	11090 Aug 11 04:21	17°♄24'23	18°44'29
evening max el	11089 Aug 28 05:26	5°♄26'36	19°35'28	retrograde	11090 Aug 19 10:51	21°♄32'41	
retrograde	11089 Sep 07 00:17	10°♄18'29		evening set	11090 Aug 21 09:37	21°♄19'44	
evening set	11089 Sep 08 20:48	10°♄08'46		desc. node	11090 Aug 26 16:58	18°♄53'28	
desc. node	11089 Sep 08 19:38	10°♄09'16		inferior conj	11090 Aug 29 11:14	16°♄57'03	-0°51'36
inferior conj	11089 Sep 17 15:45	6°♄04'26	-2°43'37	minimum elong	11090 Aug 29 09:06	17°♄00'58	0°50'58
minimum elong	11089 Sep 17 08:30	6°♄15'53	2°40'56	min. Earth dist.	11090 Sep 01 14:28	14°♄39'33	0.57008 AU
min. Earth dist.	11089 Sep 19 23:12	4°♄37'04	0.55426 AU	morning rise	11090 Sep 06 05:14	11°♄54'44	
morning rise	11089 Sep 25 18:07	1°♄39'42		direct	11090 Sep 11 22:44	10°♄34'44	
direct	11089 Sep 30 17:21	0°♄44'45		morning max el	11090 Sep 26 05:33	18°♄00'47	26°29'18
morning max el	11089 Oct 14 15:10	7°♄41'34	24°56'51		11090 Oct 06 05:34	0°♄	
	11089 Oct 30 22:43	0°♄		asc. node	11090 Oct 20 01:50	23°♄26'37	
asc. node	11089 Nov 02 04:59	4°♄05'57			11090 Oct 23 07:36	0°♄	
morning set	11089 Nov 09 18:27	19°♄19'47		morning set	11090 Oct 25 04:54	3°♄58'36	
	11089 Nov 14 15:49	0°♄					
superior conj	11089 Nov 16 14:07	4°♄15'01	1°38'54	superior conj	11090 Nov 01 01:21	19°♄01'45	1°33'22
minimum elong	11089 Nov 16 13:37	4°♄12'15	1°39'27	minimum elong	11090 Oct 31 23:55	18°♄53'44	1°33'42
				max. Earth dist.	11090 Nov 01 15:26	20°♄19'59	1.31602 AU

	11090 Nov 06 01:04	0°♄		max. Earth dist.	11091 Oct 16 00:41	2°♄37'51	1.31399 AU
evening rise	11090 Nov 07 22:56	4°♄04'39					
	11090 Nov 21 18:07	0°♄		superior conj	11091 Oct 16 13:03	3°♄46'43	1°22'13
desc. node	11090 Nov 22 14:29	1°♄22'31		minimum elong	11091 Oct 16 11:00	3°♄35'16	1°22'16
evening max el	11090 Dec 09 04:32	22°♄49'46	27°12'03	evening rise	11091 Oct 23 06:38	18°♄35'53	
	11090 Dec 22 02:57	0°♄			11091 Oct 28 19:48	0°♄	
retrograde	11090 Dec 23 02:07	0°♄02'26		desc. node	11091 Nov 09 11:39	20°♄05'54	
	11090 Dec 24 01:08	30°♄♄			11091 Nov 16 23:22	0°♄	
evening set	11090 Dec 30 00:41	27°♄54'13		evening max el	11091 Nov 21 03:59	4°♄24'42	26°18'35
min. Earth dist.	11091 Jan 02 19:01	25°♄10'02	0.60831 AU	retrograde	11091 Dec 05 02:17	11°♄30'03	
inferior conj	11091 Jan 05 21:57	22°♄29'34	-3°13'34	evening set	11091 Dec 11 14:24	9°♄47'39	
minimum elong	11091 Jan 06 04:30	22°♄15'28	3°10'36	min. Earth dist.	11091 Dec 15 17:17	7°♄12'30	0.58705 AU
morning rise	11091 Jan 13 11:01	17°♄37'40		inferior conj	11091 Dec 18 20:46	4°♄51'47	-4°28'01
direct	11091 Jan 15 14:22	17°♄19'07		minimum elong	11091 Dec 19 04:55	4°♄36'32	4°25'08
asc. node	11091 Jan 16 01:25	17°♄20'00		morning rise	11091 Dec 26 22:07	0°♄21'59	
morning max el	11091 Jan 22 18:58	20°♄55'26	17°57'05	direct	11091 Dec 29 01:25	0°♄06'27	
	11091 Jan 29 14:57	0°♄		asc. node	11092 Jan 02 22:34	1°♄32'32	
morning set	11091 Feb 07 09:32	15°♄27'22		morning max el	11092 Jan 06 04:23	4°♄05'19	18°27'09
	11091 Feb 15 09:56	0°♄		morning set	11092 Jan 22 02:11	29°♄31'20	
					11092 Jan 22 08:09	0°♄	
superior conj	11091 Feb 17 17:24	4°♄04'20	0°06'44				
minimum elong	11091 Feb 17 18:00	4°♄06'56	0°06'58	superior conj	11092 Jan 31 03:36	16°♄42'27	0°40'33
behind sun begin	11091 Feb 17 10:38	3°♄34'44		minimum elong	11092 Jan 31 06:13	16°♄54'33	0°40'37
behind sun end	11091 Feb 18 01:21	4°♄39'02		desc. node	11092 Feb 05 11:06	26°♄16'54	
desc. node	11091 Feb 18 14:21	5°♄35'32		max. Earth dist.	11092 Feb 07 15:07	0°♄03'13	1.40501 AU
max. Earth dist.	11091 Feb 25 06:21	16°♄52'41	1.42561 AU		11092 Feb 07 14:22	0°♄	
evening rise	11091 Mar 03 04:38	26°♄27'48		evening rise	11092 Feb 11 23:10	7°♄22'30	
	11091 Mar 05 10:36	0°♄			11092 Feb 26 12:15	0°♄	
	11091 Mar 26 00:04	0°♄		evening max el	11092 Mar 17 11:18	25°♄37'00	23°36'27
evening max el	11091 Apr 04 20:24	11°♄49'17	22°16'04		11092 Mar 22 16:23	0°♄	
asc. node	11091 Apr 13 23:10	17°♄29'11		retrograde	11092 Mar 28 06:00	1°♄58'31	
retrograde	11091 Apr 14 11:16	17°♄30'25		asc. node	11092 Mar 30 20:25	1°♄26'37	
evening set	11091 Apr 19 03:32	15°♄34'33		evening set	11092 Apr 02 09:48	29°♄48'48	
inferior conj	11091 Apr 24 10:56	9°♄13'19	2°47'10		11092 Apr 02 04:26	30°♄♄	
minimum elong	11091 Apr 24 09:02	9°♄19'57	2°46'26	min. Earth dist.	11092 Apr 07 05:10	24°♄11'23	0.68563 AU
min. Earth dist.	11091 Apr 24 08:27	9°♄22'00	0.68693 AU	inferior conj	11092 Apr 07 19:53	23°♄20'58	2°17'40
morning rise	11091 Apr 29 14:24	3°♄02'16		minimum elong	11092 Apr 07 17:42	23°♄28'26	2°16'52
direct	11091 May 04 08:06	1°♄02'12		morning rise	11092 Apr 13 01:36	17°♄16'20	
morning max el	11091 May 13 15:53	6°♄29'40	22°03'05	direct	11092 Apr 17 06:06	15°♄37'48	
desc. node	11091 May 17 15:27	10°♄53'09		morning max el	11092 Apr 25 09:53	20°♄17'00	20°42'28
	11091 May 31 18:15	0°♄		desc. node	11092 May 03 12:16	29°♄59'29	
morning set	11091 Jun 15 14:26	22°♄47'02			11092 May 03 12:25	0°♄	
	11091 Jun 20 00:31	0°♄			11092 May 23 22:27	0°♄	
max. Earth dist.	11091 Jun 21 03:34	1°♄52'34	1.41367 AU	morning set	11092 May 25 00:10	1°♄39'43	
				max. Earth dist.	11092 Jun 02 09:31	14°♄56'58	1.43339 AU
superior conj	11091 Jun 28 21:09	15°♄09'58	-1°37'13				
minimum elong	11091 Jun 29 03:32	15°♄38'11	1°37'06	superior conj	11092 Jun 09 02:25	25°♄58'32	-2°01'57
	11091 Jul 07 01:25	0°♄		minimum elong	11092 Jun 09 08:14	26°♄22'53	2°02'13
evening rise	11091 Jul 09 10:43	4°♄25'41			11092 Jun 11 11:42	0°♄	
asc. node	11091 Jul 10 21:53	7°♄08'35		evening rise	11092 Jun 21 05:48	16°♄57'23	
	11091 Jul 25 11:56	0°♄		asc. node	11092 Jun 26 18:48	26°♄41'06	
evening max el	11091 Jul 25 12:03	0°♄00'19	18°14'25		11092 Jun 28 17:29	0°♄	
retrograde	11091 Aug 01 16:27	3°♄38'19		evening max el	11092 Jul 08 00:39	13°♄05'10	18°04'03
evening set	11091 Aug 03 22:02	3°♄17'54		retrograde	11092 Jul 14 14:00	16°♄27'38	
	11091 Aug 09 11:54	30°♄♄		evening set	11092 Jul 17 03:34	15°♄56'16	
inferior conj	11091 Aug 11 04:29	28°♄34'48	0°43'18	inferior conj	11092 Jul 23 17:15	10°♄53'39	1°53'19
minimum elong	11091 Aug 11 05:54	28°♄31'46	0°42'25	minimum elong	11092 Jul 23 19:56	10°♄46'59	1°52'00
desc. node	11091 Aug 13 14:16	26°♄30'08		min. Earth dist.	11092 Jul 26 19:35	7°♄50'40	0.61371 AU
min. Earth dist.	11091 Aug 14 12:46	25°♄43'16	0.59094 AU	morning rise	11092 Jul 30 09:45	4°♄52'55	
morning rise	11091 Aug 18 10:24	22°♄58'08		desc. node	11092 Jul 30 11:31	4°♄49'56	
direct	11091 Aug 24 18:06	21°♄08'50		direct	11092 Aug 06 01:25	2°♄36'36	
morning max el	11091 Sep 08 02:57	28°♄56'32	27°32'03	morning max el	11092 Aug 20 06:59	10°♄36'50	27°57'03
	11091 Sep 09 04:12	0°♄			11092 Sep 04 10:28	0°♄	
	11091 Sep 30 02:27	0°♄			11092 Sep 21 08:14	0°♄	
asc. node	11091 Oct 06 22:38	13°♄06'40		morning set	11092 Sep 22 14:41	2°♄35'37	
morning set	11091 Oct 09 12:17	18°♄25'48		asc. node	11092 Sep 22 19:23	2°♄59'51	
	11091 Oct 14 20:16	0°♄		max. Earth dist.	11092 Sep 28 07:53	14°♄46'46	1.31698 AU

superior conj	11092 Sep 29 23:24	18° Ω 23'55	1°05'41	minimum elong	11093 Sep 14 04:36	2° Ω 37'48	0°43'38
minimum elong	11092 Sep 29 21:09	18° Ω 11'34	1°05'28	evening rise	11093 Sep 21 04:34	17° Ω 49'07	
	11092 Oct 05 05:38	0° \mathbb{M}			11093 Sep 27 03:01	0° \mathbb{M}	
evening rise	11092 Oct 06 17:08	3° \mathbb{M} 12'24		desc. node	11093 Oct 13 06:09	24° \mathbb{M} 20'37	
	11092 Oct 20 21:29	0° \mathbb{A}		evening max el	11093 Oct 14 05:58	25° \mathbb{M} 20'15	23°16'28
desc. node	11092 Oct 26 08:53	7° \mathbb{A} 52'26			11093 Oct 20 08:50	0° \mathbb{A}	
evening max el	11092 Nov 01 19:19	15° \mathbb{A} 09'12	24°55'45	retrograde	11093 Oct 27 14:50	1° \mathbb{A} 59'44	
retrograde	11092 Nov 15 15:10	22° \mathbb{A} 05'21		evening set	11093 Oct 31 19:53	1° \mathbb{A} 21'14	
evening set	11092 Nov 21 04:59	20° \mathbb{A} 55'33			11093 Nov 04 06:11	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	11092 Nov 26 07:06	18° \mathbb{A} 11'50	0.56766 AU	min. Earth dist.	11093 Nov 07 15:37	28° \mathbb{M} 10'40	0.55315 AU
inferior conj	11092 Nov 28 23:28	16° \mathbb{A} 27'16	-5°26'25	inferior conj	11093 Nov 09 06:24	27° \mathbb{M} 14'14	-5°47'59
minimum elong	11092 Nov 29 05:43	16° \mathbb{A} 17'05	5°24'53	minimum elong	11093 Nov 09 05:42	27° \mathbb{M} 15'15	5°47'28
morning rise	11092 Dec 07 08:41	12° \mathbb{A} 19'17		morning rise	11093 Nov 17 17:15	23° \mathbb{M} 23'02	
direct	11092 Dec 09 17:56	12° \mathbb{A} 03'12		direct	11093 Nov 20 15:49	23° \mathbb{M} 02'17	
morning max el	11092 Dec 19 03:53	16° \mathbb{A} 34'12	19°18'56	morning max el	11093 Dec 01 14:10	28° \mathbb{M} 12'57	20°33'35
asc. node	11092 Dec 19 19:38	17° \mathbb{A} 13'21			11093 Dec 03 08:08	0° \mathbb{A}	
	11092 Dec 28 19:36	0° \mathbb{Z}		asc. node	11093 Dec 06 16:39	4° \mathbb{A} 07'05	
morning set	11093 Jan 05 03:35	13° \mathbb{Z} 57'42		morning set	11093 Dec 20 10:42	28° \mathbb{A} 37'52	
					11093 Dec 21 02:38	0° \mathbb{Z}	
superior conj	11093 Jan 13 06:48	0° \approx 07'17	1°06'33	superior conj	11093 Dec 27 22:34	14° \mathbb{Z} 06'29	1°24'40
minimum elong	11093 Jan 13 09:49	0° \approx 21'54	1°06'45	minimum elong	11093 Dec 28 00:58	14° \mathbb{Z} 18'39	1°25'05
	11093 Jan 13 05:18	0° \approx		max. Earth dist.	11094 Jan 02 04:58	24° \mathbb{Z} 33'27	1.36168 AU
max. Earth dist.	11093 Jan 19 21:04	12° \approx 32'04	1.38289 AU		11094 Jan 05 01:52	0° \approx	
desc. node	11093 Jan 22 07:53	16° \approx 55'49		evening rise	11094 Jan 06 02:01	1° \approx 51'45	
evening rise	11093 Jan 23 15:04	19° \approx 12'43		desc. node	11094 Jan 09 04:45	7° \approx 28'36	
	11093 Jan 30 00:50	0° \mathbb{H}			11094 Jan 23 02:41	0° \mathbb{H}	
	11093 Feb 19 17:07	0° \mathbb{Y}		evening max el	11094 Feb 10 14:22	23° \mathbb{H} 16'40	26°04'34
evening max el	11093 Feb 28 00:50	9° \mathbb{Y} 27'14	24°55'03		11094 Feb 20 07:30	0° \mathbb{Y}	
retrograde	11093 Mar 11 20:45	16° \mathbb{Y} 20'16		retrograde	11094 Feb 23 06:31	0° \mathbb{Y} 29'43	
evening set	11093 Mar 17 12:32	13° \mathbb{Y} 58'52			11094 Feb 26 01:28	30° \mathbb{R} \mathbb{H}	
asc. node	11093 Mar 17 17:43	13° \mathbb{Y} 47'39		evening set	11094 Mar 01 10:06	27° \mathbb{H} 59'51	
min. Earth dist.	11093 Mar 22 00:13	8° \mathbb{Y} 56'36	0.68004 AU	asc. node	11094 Mar 04 15:01	24° \mathbb{H} 45'15	
inferior conj	11093 Mar 23 02:50	7° \mathbb{Y} 28'49	1°38'40	min. Earth dist.	11094 Mar 05 15:18	23° \mathbb{H} 32'30	0.67041 AU
minimum elong	11093 Mar 23 00:51	7° \mathbb{Y} 35'23	1°37'58	inferior conj	11094 Mar 07 05:51	21° \mathbb{H} 32'46	0°50'10
morning rise	11093 Mar 28 13:24	1° \mathbb{Y} 31'59		minimum elong	11094 Mar 07 04:37	21° \mathbb{H} 36'36	0°49'51
direct	11093 Apr 01 05:31	0° \mathbb{Y} 14'30		morning rise	11094 Mar 12 23:49	15° \mathbb{H} 45'37	
morning max el	11093 Apr 08 11:28	4° \mathbb{Y} 15'32	19°34'55	direct	11094 Mar 16 04:45	14° \mathbb{H} 47'09	
desc. node	11093 Apr 20 09:01	19° \mathbb{Y} 37'29		morning max el	11094 Mar 22 20:28	18° \mathbb{H} 22'35	18°42'58
greatest brilliancy	11093 Apr 21 04:01	20° \mathbb{Y} 46'59	-0.7m		11094 Mar 31 21:34	0° \mathbb{Y}	
	11093 Apr 27 07:55	0° \mathbb{B}		desc. node	11094 Apr 07 05:44	9° \mathbb{Y} 38'32	
morning set	11093 May 03 23:28	10° \mathbb{B} 09'30		morning set	11094 Apr 13 11:31	19° \mathbb{Y} 22'35	
max. Earth dist.	11093 May 15 22:22	28° \mathbb{B} 47'13	1.44794 AU		11094 Apr 20 06:35	0° \mathbb{B}	
	11093 May 16 16:45	0° \mathbb{I}		max. Earth dist.	11094 Apr 28 16:20	13° \mathbb{B} 08'13	1.45579 AU
superior conj	11093 May 20 07:39	5° \mathbb{I} 46'18	-2°13'06	superior conj	11094 Apr 29 18:14	14° \mathbb{B} 49'36	-2°04'56
minimum elong	11093 May 20 08:26	5° \mathbb{I} 49'25	2°13'39	minimum elong	11094 Apr 29 11:36	14° \mathbb{B} 23'38	2°05'01
evening rise	11093 Jun 03 04:40	28° \mathbb{I} 35'00			11094 May 09 09:16	0° \mathbb{I}	
	11093 Jun 04 00:55	0° \mathbb{E}		evening rise	11094 May 15 03:40	9° \mathbb{I} 12'08	
asc. node	11093 Jun 13 15:48	15° \mathbb{E} 52'53		greatest brilliancy	11094 May 22 04:21	20° \mathbb{I} 27'30	-0.9m
evening max el	11093 Jun 21 14:37	26° \mathbb{E} 29'55	18°12'26		11094 May 28 07:46	0° \mathbb{E}	
retrograde	11093 Jun 27 23:13	29° \mathbb{E} 51'21		asc. node	11094 May 31 12:53	4° \mathbb{E} 36'01	
evening set	11093 Jun 30 20:52	29° \mathbb{E} 06'32		evening max el	11094 Jun 05 02:51	10° \mathbb{E} 05'45	18°38'48
inferior conj	11093 Jul 06 21:32	23° \mathbb{E} 45'58	2°39'34	retrograde	11094 Jun 11 16:03	13° \mathbb{E} 39'58	
minimum elong	11093 Jul 06 23:58	23° \mathbb{E} 39'09	2°38'26	evening set	11094 Jun 14 21:50	12° \mathbb{E} 40'10	
min. Earth dist.	11093 Jul 09 11:34	20° \mathbb{E} 53'48	0.63555 AU	inferior conj	11094 Jun 20 13:21	7° \mathbb{E} 03'11	3°06'00
morning rise	11093 Jul 13 01:32	17° \mathbb{E} 31'28		minimum elong	11094 Jun 20 14:49	6° \mathbb{E} 58'40	3°05'10
desc. node	11093 Jul 17 08:43	15° \mathbb{E} 15'41		min. Earth dist.	11094 Jun 22 12:37	4° \mathbb{E} 38'51	0.65447 AU
direct	11093 Jul 19 18:09	14° \mathbb{E} 56'28		morning rise	11094 Jun 26 06:59	0° \mathbb{E} 42'41	
morning max el	11093 Aug 02 15:35	22° \mathbb{E} 58'41	27°44'10		11094 Jun 27 04:35	30° \mathbb{R} \mathbb{I}	
	11093 Aug 08 20:54	0° \mathbb{Q}		direct	11094 Jul 02 18:34	27° \mathbb{I} 59'44	
	11093 Aug 28 17:07	0° \mathbb{P}		desc. node	11094 Jul 04 05:52	28° \mathbb{I} 07'13	
morning set	11093 Sep 06 09:50	16° \mathbb{P} 22'16			11094 Jul 08 23:37	0° \mathbb{E}	
asc. node	11093 Sep 09 16:07	23° \mathbb{P} 01'28		morning max el	11094 Jul 16 02:15	5° \mathbb{E} 51'50	26°58'32
max. Earth dist.	11093 Sep 11 09:19	26° \mathbb{P} 37'36	1.32510 AU		11094 Aug 03 14:04	0° \mathbb{Q}	
	11093 Sep 12 23:18	0° \mathbb{A}		morning set	11094 Aug 20 18:51	29° \mathbb{Q} 37'37	
superior conj	11093 Sep 14 06:29	2° \mathbb{A} 48'01	0°44'01		11094 Aug 20 23:30	0° \mathbb{P}	

max. Earth dist.	11094 Aug 25 01:47	8° \mathbb{M} 04'42	1.33832 AU		11095 Jul 07 18:57	0° \mathfrak{G}	
asc. node	11094 Aug 27 12:52	13° \mathbb{M} 06'45		morning set	11095 Jul 27 15:41	0° \mathcal{Q}	
					11095 Aug 03 14:05	12° \mathcal{Q} 12'51	
superior conj	11094 Aug 29 08:05	16° \mathbb{M} 52'00	0°17'34	max. Earth dist.	11095 Aug 07 07:58	19° \mathcal{Q} 13'06	1.35626 AU
minimum elong	11094 Aug 29 07:11	16° \mathbb{M} 47'18	0°17'11		11095 Aug 12 19:44	0° \mathbb{M}	
	11094 Sep 04 12:33	0° \mathfrak{L}					
evening rise	11094 Sep 05 15:01	2° \mathfrak{L} 19'52		superior conj	11095 Aug 13 01:35	0° \mathbb{M} 29'29	-0°12'57
	11094 Sep 21 02:13	0° \mathbb{M}		minimum elong	11095 Aug 13 02:22	0° \mathbb{M} 33'29	0°13'09
evening max el	11094 Sep 25 20:18	5° \mathbb{M} 31'02	21°38'06	behind sun begin	11095 Aug 12 22:47	0° \mathbb{M} 15'23	
desc. node	11094 Sep 30 03:27	9° \mathbb{M} 02'24		behind sun end	11095 Aug 13 05:58	0° \mathbb{M} 51'37	
retrograde	11094 Oct 08 04:15	11° \mathbb{M} 38'54		asc. node	11095 Aug 14 09:40	3° \mathbb{M} 12'12	
evening set	11094 Oct 10 23:53	11° \mathbb{M} 20'52		evening rise	11095 Aug 20 22:24	16° \mathbb{M} 39'09	
inferior conj	11094 Oct 20 00:05	7° \mathbb{M} 24'33	-5°14'15		11095 Aug 27 17:09	0° \mathfrak{L}	
minimum elong	11094 Oct 19 15:45	7° \mathbb{M} 36'12	5°12'21	evening max el	11095 Sep 07 22:29	16° \mathfrak{L} 15'33	20°14'22
min. Earth dist.	11094 Oct 19 22:24	7° \mathbb{M} 26'55	0.54623 AU	desc. node	11095 Sep 17 00:48	21° \mathfrak{L} 29'15	
morning rise	11094 Oct 28 08:44	3° \mathbb{M} 36'23		retrograde	11095 Sep 18 17:08	21° \mathfrak{L} 36'49	
direct	11094 Nov 01 01:09	3° \mathbb{M} 06'56		evening set	11095 Sep 20 16:56	21° \mathfrak{L} 26'38	
morning max el	11094 Nov 13 11:04	9° \mathbb{M} 01'02	22°09'02	inferior conj	11095 Sep 29 18:00	17° \mathfrak{L} 28'37	-3°47'24
asc. node	11094 Nov 23 13:36	21° \mathbb{M} 57'34		minimum elong	11095 Sep 29 08:31	17° \mathfrak{L} 42'38	3°44'14
	11094 Nov 28 04:27	0° \mathfrak{X}		min. Earth dist.	11095 Oct 01 07:02	16° \mathfrak{L} 33'50	0.54863 AU
morning set	11094 Dec 04 21:09	13° \mathfrak{X} 24'49		morning rise	11095 Oct 07 23:15	13° \mathfrak{L} 22'00	
				direct	11095 Oct 12 10:49	12° \mathfrak{L} 38'37	
superior conj	11094 Dec 11 23:13	28° \mathfrak{X} 29'37	1°35'25	morning max el	11095 Oct 25 23:32	19° \mathfrak{L} 14'52	23°56'06
minimum elong	11094 Dec 12 00:32	28° \mathfrak{X} 36'35	1°35'59		11095 Nov 03 22:36	0° \mathbb{M}	
	11094 Dec 12 16:23	0° \mathfrak{Z}		asc. node	11095 Nov 10 10:30	10° \mathbb{M} 31'20	
max. Earth dist.	11094 Dec 15 19:04	6° \mathfrak{Z} 26'54	1.34325 AU	morning set	11095 Nov 19 08:56	28° \mathbb{M} 12'32	
evening rise	11094 Dec 20 04:25	15° \mathfrak{Z} 10'14			11095 Nov 20 05:01	0° \mathfrak{X}	
desc. node	11094 Dec 27 01:41	27° \mathfrak{Z} 50'50					
	11094 Dec 28 07:28	0° \mathfrak{A}		superior conj	11095 Nov 26 05:48	13° \mathfrak{X} 07'39	1°39'26
	11095 Jan 17 18:19	0° \mathfrak{H}		minimum elong	11095 Nov 26 05:56	13° \mathfrak{X} 08'24	1°40'02
evening max el	11095 Jan 24 03:57	6° \mathfrak{H} 57'42	26°57'43	max. Earth dist.	11095 Nov 28 16:56	18° \mathfrak{X} 26'20	1.32893 AU
retrograde	11095 Feb 06 10:36	14° \mathfrak{H} 20'11		evening rise	11095 Dec 03 18:41	28° \mathfrak{X} 58'52	
evening set	11095 Feb 13 00:40	11° \mathfrak{H} 46'34			11095 Dec 04 06:52	0° \mathfrak{Z}	
min. Earth dist.	11095 Feb 17 00:15	7° \mathfrak{H} 53'15	0.65693 AU	desc. node	11095 Dec 13 22:42	17° \mathfrak{Z} 56'28	
inferior conj	11095 Feb 19 02:46	5° \mathfrak{H} 28'26	-0°07'49		11095 Dec 21 10:34	0° \mathfrak{A}	
minimum elong	11095 Feb 19 02:59	5° \mathfrak{H} 27'50	0°07'25	evening max el	11096 Jan 06 16:25	20° \mathfrak{A} 18'43	27°27'25
transit middle	11095 Feb 19 02:59	5° \mathfrak{H} 27'50	0°07'25	retrograde	11096 Jan 20 08:22	27° \mathfrak{A} 42'05	
transit begin	11095 Feb 19 00:20	5° \mathfrak{H} 35'25		evening set	11096 Jan 27 05:52	25° \mathfrak{A} 11'29	
transit end	11095 Feb 19 05:37	5° \mathfrak{H} 20'15		min. Earth dist.	11096 Jan 31 01:03	21° \mathfrak{A} 49'39	0.64000 AU
asc. node	11095 Feb 19 12:18	5° \mathfrak{H} 01'07		inferior conj	11096 Feb 02 14:57	19° \mathfrak{A} 08'49	-1°14'51
morning rise	11095 Feb 25 06:35	29° \mathfrak{A} 53'11		minimum elong	11096 Feb 02 17:19	19° \mathfrak{A} 02'40	1°13'24
	11095 Feb 25 01:21	30° \mathfrak{R} \mathfrak{A}		asc. node	11096 Feb 06 09:34	15° \mathfrak{A} 33'49	
direct	11095 Feb 28 01:41	29° \mathfrak{A} 10'42		morning rise	11096 Feb 09 06:47	13° \mathfrak{A} 48'05	
	11095 Mar 03 03:04	0° \mathfrak{H}		direct	11096 Feb 11 17:45	13° \mathfrak{A} 17'54	
morning max el	11095 Mar 06 11:08	2° \mathfrak{H} 33'01	18°07'39	morning max el	11096 Feb 18 04:37	16° \mathfrak{A} 38'12	17°49'22
morning set	11095 Mar 25 03:05	29° \mathfrak{H} 59'09			11096 Feb 27 20:02	0° \mathfrak{H}	
desc. node	11095 Mar 25 02:27	29° \mathfrak{H} 56'35		morning set	11096 Mar 05 22:39	11° \mathfrak{H} 56'58	
	11095 Mar 25 03:18	0° \mathfrak{Y}		desc. node	11096 Mar 10 23:10	20° \mathfrak{H} 26'06	
					11096 Mar 16 17:45	0° \mathfrak{Y}	
superior conj	11095 Apr 09 01:46	23° \mathfrak{Y} 52'09	-1°37'26				
minimum elong	11095 Apr 08 16:20	23° \mathfrak{Y} 15'04	1°36'41	superior conj	11096 Mar 18 23:54	3° \mathfrak{Y} 40'12	-0°57'53
max. Earth dist.	11095 Apr 11 12:30	27° \mathfrak{Y} 42'30	1.45620 AU	minimum elong	11096 Mar 18 17:41	3° \mathfrak{Y} 15'05	0°57'00
	11095 Apr 12 23:40	0° \mathfrak{B}		max. Earth dist.	11096 Mar 24 07:30	12° \mathfrak{Y} 10'43	1.44928 AU
evening rise	11095 Apr 25 04:26	18° \mathfrak{B} 58'01		evening rise	11096 Apr 03 16:34	28° \mathfrak{Y} 19'42	
	11095 May 02 07:45	0° \mathbb{I}			11096 Apr 04 18:46	0° \mathfrak{B}	
greatest brilliancy	11095 May 07 13:37	7° \mathbb{I} 58'47	-0.7m		11096 Apr 25 06:31	0° \mathbb{I}	
asc. node	11095 May 18 10:01	22° \mathbb{I} 41'27		evening max el	11096 May 01 13:50	7° \mathbb{I} 30'28	20°20'46
evening max el	11095 May 19 11:05	23° \mathbb{I} 47'21	19°22'09	asc. node	11096 May 04 07:13	9° \mathbb{I} 56'33	
retrograde	11095 May 26 13:11	27° \mathbb{I} 46'51		retrograde	11096 May 09 11:57	12° \mathbb{I} 05'27	
evening set	11095 May 30 03:30	26° \mathbb{I} 31'22		evening set	11096 May 13 11:33	10° \mathbb{I} 34'09	
inferior conj	11095 Jun 04 13:19	20° \mathbb{I} 39'36	3°16'23	inferior conj	11096 May 18 18:35	4° \mathbb{I} 29'17	3°13'40
minimum elong	11095 Jun 04 13:38	20° \mathbb{I} 38'33	3°15'45	minimum elong	11096 May 18 17:50	4° \mathbb{I} 31'50	3°13'04
min. Earth dist.	11095 Jun 05 21:39	18° \mathbb{I} 53'44	0.66938 AU	min. Earth dist.	11096 May 19 12:45	3° \mathbb{I} 27'07	0.67983 AU
morning rise	11095 Jun 09 23:20	14° \mathbb{I} 18'11			11096 May 22 05:25	30° \mathfrak{R} \mathfrak{B}	
direct	11095 Jun 16 01:39	11° \mathbb{I} 37'42		morning rise	11096 May 23 23:50	28° \mathfrak{B} 10'19	
desc. node	11095 Jun 21 02:57	13° \mathbb{I} 06'28		direct	11096 May 29 14:22	25° \mathfrak{B} 40'54	
morning max el	11095 Jun 28 12:58	19° \mathbb{I} 05'33	25°48'18	desc. node	11096 Jun 06 23:57	29° \mathfrak{B} 43'42	

	11096 Jun 07 07:32	0°♂		min. Earth dist.	11097 May 03 07:43	18°♂11'28	0.68569 AU
morning max el	11096 Jun 09 22:45	2°♂29'15	24°23'13	morning rise	11097 May 08 06:08	12°♂14'06	
	11096 Jun 30 21:06	0°♂		direct	11097 May 13 07:38	10°♂02'02	
morning set	11096 Jul 15 14:54	23°♂55'47		morning max el	11097 May 23 09:02	15°♂59'42	22°53'16
	11096 Jul 19 01:15	0°♂		desc. node	11097 May 24 20:54	17°♂33'27	
max. Earth dist.	11096 Jul 19 06:11	0°♂22'13	1.37776 AU		11097 Jun 03 20:38	0°♂	
					11097 Jun 23 21:18	0°♂	
superior conj	11096 Jul 26 07:39	13°♂32'05	-0°46'06	morning set	11097 Jun 26 16:08	4°♂33'09	
minimum elong	11096 Jul 26 10:43	13°♂46'53	0°46'03	max. Earth dist.	11097 Jul 01 03:16	12°♂03'35	1.40082 AU
asc. node	11096 Jul 31 06:30	23°♂13'53					
	11096 Aug 03 16:09	0°♂		superior conj	11097 Jul 08 22:14	25°♂50'08	-1°19'26
evening rise	11096 Aug 04 00:11	0°♂39'55		minimum elong	11097 Jul 09 03:41	26°♂14'58	1°19'16
evening max el	11096 Aug 20 14:33	27°♂47'29	19°11'15		11097 Jul 11 04:34	0°♂	
	11096 Aug 23 04:22	0°♂		asc. node	11097 Jul 18 03:21	13°♂07'30	
retrograde	11096 Aug 29 17:12	2°♂19'40		evening rise	11097 Jul 18 17:15	14°♂13'42	
evening set	11096 Aug 31 13:31	2°♂09'16			11097 Jul 27 08:40	0°♂	
desc. node	11096 Sep 02 22:07	1°♂28'00		evening max el	11097 Aug 03 17:46	10°♂02'37	18°29'20
	11096 Sep 05 21:21	30°♂		retrograde	11097 Aug 11 11:37	13°♂55'50	
inferior conj	11096 Sep 09 01:48	27°♂58'07	-1°55'12	evening set	11097 Aug 13 13:07	13°♂40'07	
minimum elong	11096 Sep 08 20:45	28°♂06'36	1°53'19	desc. node	11097 Aug 20 19:26	9°♂30'47	
min. Earth dist.	11096 Sep 11 19:42	26°♂07'46	0.56009 AU	inferior conj	11097 Aug 21 06:30	9°♂09'07	-0°08'31
morning rise	11096 Sep 17 01:05	23°♂17'20		minimum elong	11097 Aug 21 06:10	9°♂09'47	0°08'40
direct	11096 Sep 22 08:17	22°♂12'23		transit middle	11097 Aug 21 06:10	9°♂09'47	0°08'40
morning max el	11096 Oct 06 11:19	29°♂23'36	25°38'56	transit begin	11097 Aug 21 03:09	9°♂15'42	
	11096 Oct 07 02:18	0°♂		transit end	11097 Aug 21 09:11	9°♂03'50	
asc. node	11096 Oct 27 07:21	29°♂37'33		min. Earth dist.	11097 Aug 24 13:43	6°♂34'31	0.57848 AU
	11096 Oct 27 12:03	0°♂		morning rise	11097 Aug 28 19:42	3°♂51'28	
morning set	11096 Nov 02 20:22	12°♂56'13		direct	11097 Sep 03 20:11	2°♂18'51	
				morning max el	11097 Sep 18 04:13	9°♂55'11	27°00'16
superior conj	11096 Nov 09 15:56	27°♂53'34	1°37'17		11097 Oct 03 13:42	0°♂	
minimum elong	11096 Nov 09 15:00	27°♂48'25	1°37'44	asc. node	11097 Oct 14 04:10	19°♂06'56	
	11096 Nov 10 14:50	0°♂		morning set	11097 Oct 18 05:42	27°♂30'18	
max. Earth dist.	11096 Nov 10 21:34	0°♂37'05	1.31932 AU		11097 Oct 19 09:39	0°♂	
evening rise	11096 Nov 16 17:45	13°♂09'56					
	11096 Nov 25 09:40	0°♂		superior conj	11097 Oct 25 03:35	12°♂40'07	1°29'19
desc. node	11096 Nov 29 19:47	7°♂38'25		minimum elong	11097 Oct 25 01:50	12°♂30'23	1°29'32
	11096 Dec 16 00:03	0°♂		max. Earth dist.	11097 Oct 25 06:12	12°♂54'45	1.31455 AU
evening max el	11096 Dec 19 02:01	3°♂08'04	27°27'21	evening rise	11097 Oct 31 22:55	27°♂35'25	
retrograde	11097 Jan 01 22:49	10°♂25'50			11097 Nov 02 02:21	0°♂	
evening set	11097 Jan 08 22:47	8°♂06'57		desc. node	11097 Nov 16 16:54	26°♂46'24	
min. Earth dist.	11097 Jan 12 16:06	5°♂11'15	0.62037 AU		11097 Nov 18 19:50	0°♂	
inferior conj	11097 Jan 15 15:22	2°♂26'27	-2°29'07	evening max el	11097 Dec 01 06:06	15°♂13'03	26°53'27
minimum elong	11097 Jan 15 20:25	2°♂14'46	2°26'35	retrograde	11097 Dec 15 04:26	22°♂22'10	
	11097 Jan 18 09:52	30°♂		evening set	11097 Dec 21 23:38	20°♂24'15	
morning rise	11097 Jan 22 20:37	27°♂23'02		min. Earth dist.	11097 Dec 25 20:29	17°♂45'25	0.59925 AU
asc. node	11097 Jan 23 06:45	27°♂15'37		inferior conj	11097 Dec 29 00:32	15°♂11'33	-3°46'01
direct	11097 Jan 25 01:45	27°♂01'20		minimum elong	11097 Dec 29 08:01	14°♂56'21	3°42'56
	11097 Jan 31 09:19	0°♂		morning rise	11098 Jan 05 19:08	10°♂28'25	
morning max el	11097 Jan 31 21:42	0°♂29'26	17°48'49	direct	11098 Jan 07 21:49	10°♂11'34	
morning set	11097 Feb 16 16:29	24°♂58'13		asc. node	11098 Jan 10 03:54	10°♂31'36	
	11097 Feb 19 12:16	0°♂		morning max el	11098 Jan 15 10:54	13°♂56'36	18°07'14
desc. node	11097 Feb 25 19:54	11°♂03'09			11098 Jan 26 08:44	0°♂	
				morning set	11098 Jan 31 02:16	8°♂43'32	
superior conj	11097 Feb 27 21:59	14°♂36'50	-0°15'52				
minimum elong	11097 Feb 27 20:29	14°♂30'30	0°15'24	superior conj	11098 Feb 09 20:05	26°♂40'37	0°21'59
behind sun begin	11097 Feb 27 18:06	14°♂20'21		minimum elong	11098 Feb 09 21:46	26°♂48'12	0°22'06
behind sun end	11097 Feb 27 22:53	14°♂40'38			11098 Feb 11 17:00	0°♂	
max. Earth dist.	11097 Mar 06 23:22	26°♂18'30	1.43584 AU	desc. node	11098 Feb 12 16:38	1°♂43'37	
	11097 Mar 09 06:26	0°♂		max. Earth dist.	11098 Feb 17 11:05	9°♂53'43	1.41728 AU
evening rise	11097 Mar 14 07:35	7°♂57'20		evening rise	11098 Feb 22 14:15	18°♂20'09	
	11097 Mar 29 00:24	0°♂			11098 Mar 02 00:50	0°♂	
evening max el	11097 Apr 14 11:04	21°♂14'59	21°31'35		11098 Mar 23 14:35	0°♂	
asc. node	11097 Apr 21 04:26	26°♂06'59		evening max el	11098 Mar 28 03:52	5°♂01'48	22°50'06
retrograde	11097 Apr 23 10:15	26°♂31'19		retrograde	11098 Apr 07 06:34	11°♂00'12	
evening set	11097 Apr 27 20:08	24°♂44'24		asc. node	11098 Apr 08 01:40	10°♂57'09	
inferior conj	11097 May 03 02:49	18°♂28'33	2°59'46	evening set	11098 Apr 12 03:40	8°♂58'21	
minimum elong	11097 May 03 01:15	18°♂34'02	2°59'06	min. Earth dist.	11098 Apr 17 04:21	3°♂00'47	0.68697 AU

inferior conj	11098 Apr 17 12:02	2°♄34'09	2°35'50	min. Earth dist.	11099 Apr 01 00:30	17°♄48'54	0.68381 AU
minimum elong	11098 Apr 17 09:58	2°♄41'19	2°35'03	inferior conj	11099 Apr 01 20:20	16°♄41'53	2°02'18
	11098 Apr 19 09:29	30°♄♄		minimum elong	11099 Apr 01 18:11	16°♄49'11	2°01'30
morning rise	11098 Apr 22 16:08	26°♄25'42		morning rise	11099 Apr 07 03:50	10°♄40'38	
direct	11098 Apr 27 04:17	24°♄34'30		direct	11099 Apr 11 02:59	9°♄11'15	
morning max el	11098 May 05 23:19	29°♄40'02	21°27'25	morning max el	11099 Apr 18 20:29	13°♄32'16	20°11'59
	11098 May 06 07:14	0°♄		desc. node	11099 Apr 28 14:33	25°♄36'55	
desc. node	11098 May 11 17:47	6°♄16'13			11099 May 01 16:37	0°♄	
	11098 May 28 13:26	0°♄		morning set	11099 May 16 17:55	22°♄35'38	
morning set	11098 Jun 06 15:09	14°♄00'03			11099 May 21 12:16	0°♄	
max. Earth dist.	11098 Jun 13 05:47	24°♄39'34	1.42261 AU	max. Earth dist.	11099 May 26 15:24	8°♄07'07	1.44036 AU
	11098 Jun 16 10:55	0°♄					
				superior conj	11099 Jun 01 11:46	17°♄35'35	-2°08'45
superior conj	11098 Jun 20 16:53	7°♄14'04	-1°48'56	minimum elong	11099 Jun 01 16:02	17°♄53'05	2°09'11
minimum elong	11098 Jun 20 23:28	7°♄42'30	1°48'57		11099 Jun 08 21:57	0°♄	
evening rise	11098 Jul 01 21:43	27°♄11'29		evening rise	11099 Jun 14 08:47	9°♄21'23	
	11098 Jul 03 10:49	0°♄		asc. node	11099 Jun 21 21:12	22°♄13'26	
asc. node	11098 Jul 05 00:15	2°♄49'12			11099 Jun 26 19:51	0°♄	
evening max el	11098 Jul 18 04:03	22°♄51'59	18°07'40	evening max el	11099 Jul 01 17:34	6°♄05'33	18°05'18
retrograde	11098 Jul 25 00:31	26°♄21'19		retrograde	11099 Jul 08 03:44	9°♄26'06	
evening set	11098 Jul 27 09:36	25°♄56'29		evening set	11099 Jul 10 20:43	8°♄49'14	
inferior conj	11098 Aug 03 08:27	21°♄04'38	1°16'07	inferior conj	11099 Jul 17 04:21	3°♄38'25	2°15'39
minimum elong	11098 Aug 03 10:39	20°♄59'36	1°14'55	minimum elong	11099 Jul 17 07:04	3°♄31'19	2°14'21
min. Earth dist.	11098 Aug 06 15:10	18°♄05'42	0.60060 AU	min. Earth dist.	11099 Jul 20 01:48	0°♄37'45	0.62325 AU
desc. node	11098 Aug 07 16:43	17°♄11'55			11099 Jul 20 17:10	30°♄♄	
morning rise	11098 Aug 10 08:43	15°♄16'43		morning rise	11099 Jul 23 15:18	27°♄30'30	
direct	11098 Aug 16 20:44	13°♄15'27		desc. node	11099 Jul 25 13:58	26°♄18'04	
morning max el	11098 Aug 31 04:28	21°♄08'38	27°47'32	direct	11099 Jul 30 07:59	25°♄05'21	
	11098 Sep 07 21:09	0°♄			11099 Aug 10 01:09	0°♄	
	11098 Sep 26 13:17	0°♄		morning max el	11099 Aug 13 10:57	3°♄07'36	27°56'06
asc. node	11098 Oct 01 00:56	8°♄52'48			11099 Sep 02 09:23	0°♄	
morning set	11098 Oct 02 11:11	11°♄50'05		morning set	11099 Sep 16 10:49	25°♄50'17	
max. Earth dist.	11098 Oct 08 15:09	25°♄10'05	1.31469 AU	asc. node	11099 Sep 17 21:42	28°♄49'38	
					11099 Sep 18 11:13	0°♄	
superior conj	11098 Oct 09 14:54	27°♄21'46	1°15'51	max. Earth dist.	11099 Sep 21 20:31	7°♄12'31	1.31979 AU
minimum elong	11098 Oct 09 12:42	27°♄09'35	1°15'47				
	11098 Oct 10 19:22	0°♄		superior conj	11099 Sep 24 00:05	11°♄53'15	0°57'05
evening rise	11098 Oct 16 08:02	12°♄09'11		minimum elong	11099 Sep 23 21:55	11°♄41'24	0°56'48
	11098 Oct 25 06:18	0°♄		evening rise	11099 Sep 30 19:09	26°♄45'48	
desc. node	11098 Nov 03 14:04	15°♄07'19			11099 Oct 02 07:36	0°♄	
evening max el	11098 Nov 13 02:09	26°♄25'40	25°46'21		11099 Oct 19 13:34	0°♄	
	11098 Nov 17 10:15	0°♄		desc. node	11099 Oct 21 11:18	2°♄23'13	
retrograde	11098 Nov 26 23:32	3°♄26'34		evening max el	11099 Oct 25 14:32	6°♄51'32	24°14'30
evening set	11098 Dec 03 03:54	1°♄57'34		retrograde	11099 Nov 08 06:56	13°♄42'32	
	11098 Dec 06 15:16	30°♄♄		evening set	11099 Nov 13 08:02	12°♄46'29	
min. Earth dist.	11098 Dec 07 14:38	29°♄21'14	0.57848 AU	min. Earth dist.	11099 Nov 19 01:25	9°♄53'44	0.56067 AU
inferior conj	11098 Dec 10 15:01	27°♄14'19	-4°55'48	inferior conj	11099 Nov 21 08:56	8°♄28'15	-5°41'26
minimum elong	11098 Dec 10 22:56	27°♄00'22	4°53'23	minimum elong	11099 Nov 21 12:48	8°♄22'17	5°40'32
morning rise	11098 Dec 18 20:24	22°♄53'51		morning rise	11099 Nov 29 19:39	4°♄28'58	
direct	11098 Dec 21 01:36	22°♄38'24		direct	11099 Dec 02 09:46	4°♄11'27	
asc. node	11098 Dec 28 01:01	25°♄22'45		morning max el	11099 Dec 12 10:43	8°♄58'05	19°48'01
morning max el	11098 Dec 29 16:28	26°♄49'30	18°46'22	asc. node	11099 Dec 14 22:05	11°♄36'35	
	11099 Jan 01 12:43	0°♄			11099 Dec 26 08:22	0°♄	
morning set	11099 Jan 14 23:04	22°♄58'08		morning set	11099 Dec 30 03:17	7°♄31'42	
	11099 Jan 18 13:23	0°♄					
				superior conj	11100 Jan 06 23:12	23°♄21'27	1°15'09
superior conj	11099 Jan 23 14:04	9°♄39'51	0°52'34	minimum elong	11100 Jan 07 02:02	23°♄35'29	1°15'27
minimum elong	11099 Jan 23 17:01	9°♄53'46	0°52'40		11100 Jan 10 08:52	0°♄	
desc. node	11099 Jan 30 13:22	22°♄23'56		max. Earth dist.	11100 Jan 13 01:00	5°♄03'11	1.37358 AU
max. Earth dist.	11099 Jan 30 18:43	22°♄47'30	1.39570 AU	evening rise	11100 Jan 16 18:22	11°♄50'36	
evening rise	11099 Feb 03 17:55	29°♄38'21		desc. node	11100 Jan 17 10:11	13°♄00'52	
	11099 Feb 03 23:03	0°♄			11100 Jan 27 14:25	0°♄	
	11099 Feb 23 10:51	0°♄			11100 Feb 18 17:05	0°♄	
evening max el	11099 Mar 10 17:59	18°♄50'34	24°10'30	evening max el	11100 Feb 21 07:16	2°♄40'49	25°26'01
retrograde	11099 Mar 21 23:36	25°♄26'15		retrograde	11100 Mar 05 12:28	9°♄44'14	
asc. node	11099 Mar 25 22:57	24°♄13'28		evening set	11100 Mar 11 09:25	7°♄18'26	
evening set	11099 Mar 27 08:37	23°♄11'03		asc. node	11100 Mar 12 20:15	5°♄56'29	

min. Earth dist.	11100 Mar 15 18:05	2°♿31'18	0.67647 AU	asc. node	11101 Feb 27 17:33	16°♿29'51	
inferior conj	11100 Mar 17 01:54	0°♿48'49	1°19'18	inferior conj	11101 Mar 01 02:37	14°♿49'56	0°26'46
minimum elong	11100 Mar 17 00:09	0°♿54'26	1°18'42	minimum elong	11101 Mar 01 01:55	14°♿52'04	0°26'42
	11100 Mar 17 17:06	30°♿		morning rise	11101 Mar 07 00:30	9°♿07'28	
morning rise	11100 Mar 22 15:20	24°♿56'04		direct	11101 Mar 10 00:57	8°♿16'22	
direct	11100 Mar 26 02:28	23°♿47'11		morning max el	11101 Mar 16 13:14	11°♿45'09	18°25'48
morning max el	11100 Apr 02 01:31	27°♿35'50	19°10'49		11101 Mar 29 19:07	0°♿	
	11100 Apr 04 07:11	0°♿		desc. node	11101 Apr 02 08:02	5°♿34'28	
greatest brilliancy	11100 Apr 15 01:29	14°♿48'49	-0.7m	morning set	11101 Apr 05 18:48	11°♿02'29	
desc. node	11100 Apr 15 11:18	15°♿25'38			11101 Apr 17 19:23	0°♿	
	11100 Apr 25 00:09	0°♿					
morning set	11100 Apr 25 19:55	1°♿16'19		superior conj	11101 Apr 21 14:51	5°♿57'45	-1°55'20
max. Earth dist.	11100 May 09 06:35	22°♿11'52	1.45217 AU	minimum elong	11101 Apr 21 06:09	5°♿23'47	1°55'02
				max. Earth dist.	11101 Apr 22 01:13	6°♿38'16	1.45690 AU
superior conj	11100 May 12 07:46	27°♿00'27	-2°12'10		11101 May 06 22:56	0°♿	
minimum elong	11100 May 12 05:19	26°♿50'44	2°12'38	evening rise	11101 May 07 10:40	0°♿46'15	
	11100 May 14 05:02	0°♿		greatest brilliancy	11101 May 17 00:54	15°♿50'32	-0.8m
evening rise	11100 May 26 21:47	20°♿33'27		asc. node	11101 May 26 15:20	29°♿42'26	
	11100 Jun 01 15:38	0°♿			11101 May 26 20:58	0°♿	
asc. node	11100 Jun 08 18:14	11°♿13'55		evening max el	11101 May 29 17:51	3°♿14'22	18°55'17
evening max el	11100 Jun 15 07:04	19°♿35'18	18°21'27	retrograde	11101 Jun 05 11:41	6°♿57'54	
retrograde	11100 Jun 21 16:44	23°♿00'54		evening set	11101 Jun 08 20:58	5°♿51'39	
evening set	11100 Jun 24 17:41	22°♿10'00		inferior conj	11101 Jun 14 09:42	0°♿08'27	3°12'07
inferior conj	11100 Jun 30 14:02	16°♿42'14	2°52'56	minimum elong	11101 Jun 14 10:41	0°♿05'20	3°11'24
minimum elong	11100 Jun 30 16:07	16°♿36'11	2°51'56		11101 Jun 14 12:22	30°♿♿	
min. Earth dist.	11100 Jul 02 21:57	13°♿59'58	0.64403 AU	min. Earth dist.	11101 Jun 16 02:41	27°♿59'11	0.66137 AU
morning rise	11100 Jul 06 13:16	10°♿24'03		morning rise	11101 Jun 19 23:45	23°♿47'00	
desc. node	11100 Jul 12 11:10	7°♿45'56		direct	11101 Jun 26 07:55	21°♿03'33	
direct	11100 Jul 13 04:17	7°♿44'12		desc. node	11101 Jun 29 08:19	21°♿35'14	
morning max el	11100 Jul 26 20:57	15°♿44'39	27°28'15	morning max el	11101 Jul 09 07:43	28°♿47'39	26°30'58
	11100 Aug 07 13:58	0°♿			11101 Jul 10 11:35	0°♿	
	11100 Aug 26 03:26	0°♿			11101 Aug 01 09:22	0°♿	
morning set	11100 Aug 31 02:03	9°♿24'25		morning set	11101 Aug 14 05:44	22°♿24'21	
asc. node	11100 Sep 04 18:27	18°♿52'58			11101 Aug 18 04:18	0°♿	
max. Earth dist.	11100 Sep 04 18:23	18°♿52'38	1.33006 AU	max. Earth dist.	11101 Aug 18 06:08	0°♿09'02	1.34538 AU
				asc. node	11101 Aug 22 15:13	8°♿58'57	
superior conj	11100 Sep 08 05:07	26°♿09'03	0°33'20				
minimum elong	11100 Sep 08 03:34	26°♿00'46	0°32'56	superior conj	11101 Aug 23 03:40	10°♿03'09	0°05'05
	11100 Sep 10 00:07	0°♿		minimum elong	11101 Aug 23 03:24	10°♿01'46	0°04'45
evening rise	11100 Sep 15 06:24	11°♿20'00		behind sun begin	11101 Aug 22 21:46	9°♿32'43	
	11100 Sep 24 17:54	0°♿		behind sun end	11101 Aug 23 09:02	10°♿30'53	
evening max el	11100 Oct 07 01:25	16°♿56'54	22°33'34	evening rise	11101 Aug 30 15:50	25°♿46'42	
desc. node	11100 Oct 08 08:37	18°♿09'30			11101 Sep 01 16:50	0°♿	
retrograde	11100 Oct 20 02:05	23°♿25'51		evening max el	11101 Sep 18 20:18	27°♿19'48	21°00'15
evening set	11100 Oct 23 15:43	22°♿57'54			11101 Sep 21 22:38	0°♿	
min. Earth dist.	11100 Oct 31 08:59	19°♿30'30	0.54901 AU	desc. node	11101 Sep 25 05:57	1°♿57'25	
inferior conj	11100 Nov 01 08:56	18°♿56'32	-5°41'05	retrograde	11101 Sep 30 13:27	3°♿08'33	
minimum elong	11100 Nov 01 04:35	19°♿02'42	5°40'14	evening set	11101 Oct 02 22:22	2°♿55'15	
morning rise	11100 Nov 09 19:03	15°♿08'49			11101 Oct 10 06:15	30°♿♿	
direct	11100 Nov 13 00:34	14°♿45'04		inferior conj	11101 Oct 12 00:56	29°♿00'18	-4°42'41
morning max el	11100 Nov 24 15:11	20°♿14'37	21°12'09	minimum elong	11101 Oct 11 15:08	29°♿14'09	4°39'59
asc. node	11100 Dec 01 19:05	28°♿55'57		min. Earth dist.	11101 Oct 12 16:33	28°♿38'11	0.54606 AU
	11100 Dec 02 12:11	0°♿		morning rise	11101 Oct 20 08:11	25°♿06'32	
morning set	11100 Dec 14 12:04	22°♿15'01		direct	11101 Oct 24 08:49	24°♿31'42	
	11100 Dec 18 04:42	0°♿			11101 Nov 05 11:50	0°♿	
				morning max el	11101 Nov 06 07:32	0°♿44'52	22°53'55
superior conj	11100 Dec 21 19:10	7°♿31'53	1°30'05	asc. node	11101 Nov 18 16:02	17°♿06'15	
minimum elong	11100 Dec 21 21:08	7°♿42'05	1°30'34		11101 Nov 25 13:52	0°♿	
max. Earth dist.	11100 Dec 26 10:42	16°♿56'47	1.35331 AU	morning set	11101 Nov 28 23:17	7°♿02'22	
evening rise	11100 Dec 30 12:21	24°♿47'27					
	11101 Jan 02 08:08	0°♿		superior conj	11101 Dec 05 22:38	22°♿01'47	1°37'54
desc. node	11101 Jan 04 07:04	3°♿29'31		minimum elong	11101 Dec 05 23:27	22°♿06'10	1°38'30
	11101 Jan 21 03:39	0°♿		max. Earth dist.	11101 Dec 09 03:57	28°♿50'31	1.33661 AU
evening max el	11101 Feb 03 20:46	16°♿27'21	26°29'35		11101 Dec 09 17:20	0°♿	
retrograde	11101 Feb 16 20:07	23°♿46'29		evening rise	11101 Dec 13 20:12	8°♿19'38	
evening set	11101 Feb 23 04:18	21°♿14'19		desc. node	11101 Dec 22 04:01	23°♿45'05	
min. Earth dist.	11101 Feb 27 06:57	17°♿01'29	0.66511 AU		11101 Dec 25 20:48	0°♿	