

superior conj	2600 Apr 21 01:40	1°♄01'33	-0°43'32	max. Earth dist.	2601 Mar 30 04:16	3°♄44'32	1.35880 AU
minimum elong	2600 Apr 21 03:54	1°♄13'11	0°43'05				
asc. node	2600 Apr 25 08:19	10°♄01'03		superior conj	2601 Apr 04 19:00	14°♄44'33	-1°11'20
evening rise	2600 Apr 28 12:53	16°♄43'11		minimum elong	2601 Apr 04 22:36	15°♄02'41	1°10'45
	2600 May 05 05:31	0°♄		asc. node	2601 Apr 12 05:23	29°♄54'40	
evening max el	2600 May 18 07:41	18°♄48'04	21°21'19		2601 Apr 12 06:25	0°♄	
retrograde	2600 May 30 09:31	24°♄42'48		evening rise	2601 Apr 12 19:04	1°♄04'30	
evening set	2600 Jun 01 17:35	24°♄30'18		evening max el	2601 Apr 30 15:13	0°♄02'51	20°03'49
desc. node	2600 Jun 02 05:58	24°♄24'18			2601 Apr 30 14:03	0°♄	
inferior conj	2600 Jun 11 03:06	20°♄30'57	-2°32'01	retrograde	2601 May 11 00:04	5°♄04'22	
minimum elong	2600 Jun 10 20:16	20°♄40'32	2°29'45	evening set	2601 May 13 00:10	4°♄53'56	
min. Earth dist.	2600 Jun 11 08:01	20°♄24'05	0.54883 AU	desc. node	2601 May 20 02:59	2°♄00'40	
morning rise	2600 Jun 19 23:27	16°♄33'18		inferior conj	2601 May 21 23:54	0°♄54'29	-0°32'54
direct	2600 Jun 23 06:50	16°♄09'33		minimum elong	2601 May 21 22:22	0°♄56'46	0°32'20
morning max el	2600 Jul 05 20:54	22°♄07'37	22°16'53		2601 May 23 12:14	30°♄	
	2600 Jul 12 16:14	0°♄		min. Earth dist.	2601 May 23 21:03	29°♄46'56	0.55294 AU
asc. node	2600 Jul 22 07:34	15°♄59'57		morning rise	2601 May 30 18:47	26°♄32'38	
morning set	2600 Jul 27 11:47	26°♄25'20		direct	2601 Jun 03 20:01	25°♄56'49	
	2600 Jul 29 04:33	0°♄			2601 Jun 14 08:34	0°♄	
				morning max el	2601 Jun 17 12:52	2°♄41'47	23°59'00
superior conj	2600 Aug 03 16:06	11°♄39'25	1°38'43		2601 Jul 06 08:42	0°♄	
minimum elong	2600 Aug 03 14:26	11°♄30'32	1°38'35	asc. node	2601 Jul 09 04:39	5°♄35'01	
max. Earth dist.	2600 Aug 06 23:39	18°♄34'27	1.34376 AU	morning set	2601 Jul 11 23:29	11°♄20'56	
evening rise	2600 Aug 11 15:36	27°♄55'03					
	2600 Aug 12 17:28	0°♄		superior conj	2601 Jul 18 23:40	26°♄27'14	1°27'02
desc. node	2600 Aug 29 05:20	28°♄07'05		minimum elong	2601 Jul 18 21:23	26°♄14'55	1°26'45
	2600 Aug 30 11:49	0°♄			2601 Jul 20 15:11	0°♄	
evening max el	2600 Sep 15 12:28	19°♄48'25	27°03'55	max. Earth dist.	2601 Jul 21 00:56	0°♄52'11	1.33239 AU
retrograde	2600 Sep 28 18:54	27°♄05'42		evening rise	2601 Jul 26 09:36	12°♄01'47	
evening set	2600 Oct 05 15:14	24°♄22'52			2601 Aug 04 23:04	0°♄	
min. Earth dist.	2600 Oct 09 12:46	20°♄34'26	0.65288 AU	desc. node	2601 Aug 16 02:20	17°♄34'12	
inferior conj	2600 Oct 11 13:25	18°♄16'31	-2°13'47		2601 Aug 25 23:57	0°♄	
minimum elong	2600 Oct 11 17:03	18°♄06'12	2°12'22	evening max el	2601 Aug 28 23:50	3°♄02'37	27°25'26
morning rise	2600 Oct 17 19:42	12°♄40'37		retrograde	2601 Sep 11 14:30	10°♄19'48	
asc. node	2600 Oct 18 06:44	12°♄28'16		evening set	2601 Sep 18 18:22	7°♄40'48	
direct	2600 Oct 20 13:18	12°♄00'15		min. Earth dist.	2601 Sep 22 10:32	4°♄26'16	0.63774 AU
morning max el	2600 Oct 27 01:39	15°♄30'50	18°09'56	inferior conj	2601 Sep 24 23:44	1°♄49'21	-3°11'56
	2600 Nov 06 12:21	0°♄		minimum elong	2601 Sep 25 04:46	1°♄36'27	3°10'17
morning set	2600 Nov 14 11:59	13°♄03'50			2601 Sep 26 19:27	30°♄	
	2600 Nov 24 22:02	0°♄		morning rise	2601 Oct 01 16:20	26°♄29'44	
desc. node	2600 Nov 25 04:36	0°♄26'20		direct	2601 Oct 04 04:44	25°♄58'32	
				asc. node	2601 Oct 05 03:49	26°♄03'10	
superior conj	2600 Nov 29 01:32	6°♄36'15	-0°25'57	morning max el	2601 Oct 10 17:57	29°♄23'57	17°52'54
minimum elong	2600 Nov 28 22:14	6°♄23'08	0°25'30		2601 Oct 11 07:58	0°♄	
max. Earth dist.	2600 Dec 02 01:28	11°♄20'12	1.45057 AU	morning set	2601 Oct 27 11:29	25°♄04'42	
	2600 Dec 14 00:18	0°♄			2601 Oct 30 08:06	0°♄	
evening rise	2600 Dec 15 10:44	2°♄13'44					
greatest brilliancy	2600 Dec 28 00:36	21°♄35'42	-0.7m	superior conj	2601 Nov 08 23:52	16°♄12'41	0°20'53
	2601 Jan 02 18:55	0°♄		minimum elong	2601 Nov 09 02:06	16°♄21'49	0°20'33
evening max el	2601 Jan 09 02:49	7°♄50'23	19°36'10	desc. node	2601 Nov 12 01:38	21°♄12'41	
asc. node	2601 Jan 14 06:01	11°♄38'14		max. Earth dist.	2601 Nov 14 19:36	25°♄37'24	1.44273 AU
retrograde	2601 Jan 16 10:20	12°♄04'09			2601 Nov 17 13:49	0°♄	
evening set	2601 Jan 19 23:10	10°♄51'01		evening rise	2601 Nov 24 20:30	11°♄20'15	
inferior conj	2601 Jan 25 10:49	4°♄54'26	3°08'08		2601 Dec 07 04:52	0°♄	
minimum elong	2601 Jan 25 08:25	5°♄02'21	3°07'37	evening max el	2601 Dec 23 04:50	21°♄20'55	20°37'24
min. Earth dist.	2601 Jan 26 14:05	3°♄24'56	0.66600 AU	retrograde	2601 Dec 31 08:18	26°♄09'23	
	2601 Jan 29 09:48	30°♄		asc. node	2602 Jan 01 03:03	26°♄05'59	
morning rise	2601 Jan 30 17:26	28°♄41'30		evening set	2602 Jan 04 06:03	24°♄31'34	
direct	2601 Feb 05 20:46	25°♄57'35		inferior conj	2602 Jan 09 15:12	18°♄32'34	2°35'22
	2601 Feb 14 14:17	0°♄		minimum elong	2602 Jan 09 12:37	18°♄41'22	2°34'37
morning max el	2601 Feb 18 03:21	3°♄15'49	25°42'39	min. Earth dist.	2602 Jan 10 05:16	17°♄44'31	0.67394 AU
desc. node	2601 Feb 21 03:47	6°♄30'01		morning rise	2602 Jan 14 19:01	12°♄19'24	
	2601 Mar 10 12:04	0°♄		direct	2602 Jan 20 08:03	9°♄52'15	
morning set	2601 Mar 26 09:21	26°♄39'45		morning max el	2602 Jan 31 11:47	16°♄31'31	24°18'26
	2601 Mar 28 04:40	0°♄		desc. node	2602 Feb 08 00:49	25°♄14'24	

	2602 Feb 11 15:47	0°♊			2603 Feb 05 11:55	0°♊	
	2602 Mar 03 12:00	0°♋		morning set	2603 Feb 17 05:25	18°♊33'09	
morning set	2602 Mar 08 08:34	8°♋15'38		max. Earth dist.	2603 Feb 21 20:43	26°♊21'22	1.40020 AU
max. Earth dist.	2602 Mar 12 01:20	14°♋48'52	1.37862 AU		2603 Feb 23 23:18	0°♋	
superior conj	2602 Mar 19 00:48	27°♋49'00	-1°36'34	superior conj	2603 Mar 01 14:48	10°♋04'36	-1°56'06
minimum elong	2602 Mar 19 05:12	28°♋10'10	1°36'03	minimum elong	2603 Mar 01 18:36	10°♋21'57	1°55'50
	2602 Mar 20 03:57	0°♌		evening rise	2603 Mar 11 09:29	28°♋26'13	
evening rise	2602 Mar 27 18:56	15°♌01'22			2603 Mar 12 05:12	0°♌	
asc. node	2602 Mar 30 02:24	19°♌33'30		asc. node	2603 Mar 16 23:24	8°♌52'09	
	2602 Apr 04 17:55	0°♍		evening max el	2603 Mar 27 14:10	24°♌25'59	18°27'18
evening max el	2602 Apr 13 10:10	11°♍56'59	19°05'27	retrograde	2603 Apr 04 02:17	28°♌08'04	
retrograde	2602 Apr 22 03:50	16°♍11'36		evening set	2603 Apr 06 11:16	27°♌46'56	
evening set	2602 Apr 24 06:46	15°♍57'37		inferior conj	2603 Apr 13 21:07	23°♌14'43	2°34'48
inferior conj	2602 May 02 11:57	11°♍44'37	1°16'07	minimum elong	2603 Apr 14 00:59	23°♌06'54	2°33'50
minimum elong	2602 May 02 14:49	11°♍39'41	1°15'10	min. Earth dist.	2603 Apr 17 07:38	20°♌29'44	0.58466 AU
min. Earth dist.	2602 May 05 12:19	9°♍40'50	0.56577 AU	morning rise	2603 Apr 21 11:45	17°♌46'36	
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direct	2602 May 15 21:00	5°♍48'13		morning max el	2603 May 11 21:39	23°♌54'21	26°54'43
morning max el	2602 May 30 03:21	13°♍08'15	25°36'52		2603 May 17 10:02	0°♎	
	2602 Jun 12 07:58	0°♏			2603 Jun 05 09:04	0°♏	
morning set	2602 Jun 26 11:05	26°♏15'44		morning set	2603 Jun 10 20:58	11°♏04'06	
asc. node	2602 Jun 26 01:41	25°♏26'14		asc. node	2603 Jun 12 22:42	15°♏28'07	
	2602 Jun 28 05:09	0°♐					
superior conj	2602 Jul 03 10:16	11°♐22'49	1°10'39	superior conj	2603 Jun 17 22:02	26°♏19'42	0°50'21
minimum elong	2602 Jul 03 07:54	11°♐09'52	1°10'17	minimum elong	2603 Jun 17 20:03	26°♏08'47	0°49'58
max. Earth dist.	2602 Jul 04 09:07	13°♐27'56	1.32500 AU	max. Earth dist.	2603 Jun 17 20:46	26°♏12'46	1.32157 AU
evening rise	2602 Jul 10 11:41	26°♐31'30			2603 Jun 19 14:03	0°♑	
	2602 Jul 12 04:25	0°♒		evening rise	2603 Jun 24 19:07	11°♑15'34	
	2602 Jul 29 09:27	0°♓			2603 Jul 04 09:38	0°♒	
desc. node	2602 Aug 02 23:21	6°♓18'26		desc. node	2603 Jul 20 20:22	24°♒01'30	
evening max el	2602 Aug 11 07:39	15°♓44'17	27°15'59	evening max el	2603 Jul 24 09:24	27°♒41'58	26°33'19
retrograde	2602 Aug 25 03:27	22°♓59'10			2603 Jul 27 00:08	0°♓	
evening set	2602 Sep 01 07:26	20°♓36'08		retrograde	2603 Aug 07 08:42	4°♓54'06	
min. Earth dist.	2602 Sep 04 21:47	17°♓48'04	0.61940 AU	evening set	2603 Aug 14 01:42	3°♓00'27	
inferior conj	2602 Sep 07 22:24	15°♓02'52	-4°04'42	min. Earth dist.	2603 Aug 17 22:54	0°♓24'26	0.59900 AU
minimum elong	2602 Sep 08 03:56	14°♓50'16	4°03'21		2603 Aug 18 11:33	30°♓♌	
morning rise	2602 Sep 15 02:02	10°♓02'59		inferior conj	2603 Aug 21 05:53	27°♓47'19	-4°45'08
direct	2602 Sep 17 11:52	9°♓37'58		minimum elong	2603 Aug 21 10:04	27°♓38'59	4°44'35
asc. node	2602 Sep 22 00:52	11°♓09'53		morning rise	2603 Aug 28 20:29	23°♓09'39	
morning max el	2602 Sep 24 09:17	13°♓06'38	17°54'07	direct	2603 Aug 31 06:31	22°♓48'21	
	2602 Oct 05 19:41	0°♔		morning max el	2603 Sep 07 20:22	26°♓29'34	18°14'41
morning set	2602 Oct 10 07:25	8°♔04'21		asc. node	2603 Sep 08 21:54	27°♓34'54	
					2603 Sep 10 22:35	0°♕	
superior conj	2602 Oct 21 01:15	27°♔09'37	0°58'41	morning set	2603 Sep 23 17:58	21°♕45'24	
minimum elong	2602 Oct 21 05:39	27°♔28'32	0°58'07		2603 Sep 28 02:35	0°♕	
	2602 Oct 22 17:04	0°♖		superior conj	2603 Oct 03 03:29	9°♕19'11	1°24'46
max. Earth dist.	2602 Oct 28 09:39	9°♖29'45	1.42865 AU	minimum elong	2603 Oct 03 07:18	9°♕36'34	1°24'24
desc. node	2602 Oct 29 22:39	12°♖00'25		max. Earth dist.	2603 Oct 10 17:52	22°♕41'09	1.41014 AU
evening rise	2602 Nov 04 08:47	20°♖38'52			2603 Oct 15 03:01	0°♗	
	2602 Nov 10 10:15	0°♘		evening rise	2603 Oct 15 14:18	0°♗46'06	
	2602 Dec 01 17:24	0°♙		desc. node	2603 Oct 16 19:41	2°♗45'27	
evening max el	2602 Dec 06 01:14	4°♙52'37	21°49'44		2603 Nov 03 21:25	0°♘	
retrograde	2602 Dec 15 05:18	10°♙20'08		evening max el	2603 Nov 18 16:52	18°♘26'32	23°08'39
asc. node	2602 Dec 19 00:05	9°♙02'13		retrograde	2603 Nov 28 23:47	24°♘32'30	
evening set	2602 Dec 19 13:46	8°♙36'30		evening set	2603 Dec 03 20:37	22°♘32'20	
inferior conj	2602 Dec 24 22:07	2°♙18'27	1°54'46	asc. node	2603 Dec 05 21:06	20°♘31'15	
minimum elong	2602 Dec 24 19:52	2°♙26'16	1°53'57	inferior conj	2603 Dec 09 05:42	16°♘09'06	1°07'44
min. Earth dist.	2602 Dec 25 00:27	2°♙10'23	0.67808 AU	minimum elong	2603 Dec 09 04:11	16°♘14'18	1°07'07
	2602 Dec 26 14:39	30°♘♙		min. Earth dist.	2603 Dec 08 21:13	16°♘38'20	0.67868 AU
morning rise	2602 Dec 30 01:50	26°♘06'38		morning rise	2603 Dec 14 11:40	10°♘00'36	
direct	2603 Jan 03 23:49	24°♘01'01		direct	2603 Dec 18 19:10	8°♘17'47	
morning max el	2603 Jan 13 21:38	29°♘53'13	22°49'37	morning max el	2603 Dec 27 12:14	13°♘22'47	21°25'08
	2603 Jan 14 00:19	0°♚			2604 Jan 09 15:16	0°♚	
desc. node	2603 Jan 25 21:51	14°♚38'48		desc. node	2604 Jan 12 18:54	4°♚31'46	


































































































































morning set	2604 Jan 27 21:20	27° Z 28'51		direct	2604 Dec 01 16:55	22° M 38'12	
	2604 Jan 29 11:24	0° \approx		morning max el	2604 Dec 09 10:14	27° M 03'10	20°11'15
max. Earth dist.	2604 Feb 03 21:02	8° \approx 45'07	1.42074 AU		2604 Dec 12 02:39	0° Z	
				desc. node	2604 Dec 29 15:57	24° Z 45'23	
superior conj	2604 Feb 11 07:58	21° \approx 19'36	-2°05'36		2605 Jan 02 02:39	0° Z	
minimum elong	2604 Feb 11 08:45	21° \approx 22'59	2°05'35	morning set	2605 Jan 05 18:26	5° Z 37'29	
	2604 Feb 16 06:32	0° H		max. Earth dist.	2605 Jan 16 05:34	22° Z 04'29	1.43748 AU
evening rise	2604 Feb 22 11:02	11° H 10'33			2605 Jan 21 03:05	0° \approx	
asc. node	2604 Mar 02 20:25	27° H 43'54					
	2604 Mar 04 06:52	0° Y		superior conj	2605 Jan 21 23:46	1° \approx 24'48	-1°59'56
evening max el	2604 Mar 09 24:00	7° Y 21'17	18°09'06	minimum elong	2605 Jan 21 19:08	1° \approx 05'48	1°59'44
retrograde	2604 Mar 16 18:08	10° Y 46'58		evening rise	2605 Feb 03 19:22	23° \approx 06'03	
evening set	2604 Mar 19 09:07	10° Y 16'23			2605 Feb 07 18:57	0° H	
inferior conj	2604 Mar 26 02:35	5° Y 23'25	3°20'47	asc. node	2605 Feb 17 17:26	16° H 00'15	
minimum elong	2604 Mar 26 05:10	5° Y 17'21	3°20'24	evening max el	2605 Feb 21 12:27	20° H 34'02	18°10'11
min. Earth dist.	2604 Mar 29 09:08	2° Y 21'11	0.60615 AU	retrograde	2605 Feb 27 23:20	23° H 58'07	
	2604 Apr 01 07:43	30° R H		evening set	2605 Mar 02 19:48	23° H 16'45	
morning rise	2604 Apr 01 23:11	29° H 34'09		inferior conj	2605 Mar 09 00:45	18° H 03'30	3°39'50
direct	2604 Apr 08 15:38	27° H 23'59		minimum elong	2605 Mar 09 01:25	18° H 01'43	3°39'49
desc. node	2604 Apr 09 18:03	27° H 27'23		min. Earth dist.	2605 Mar 11 18:57	15° H 08'37	0.62710 AU
	2604 Apr 16 10:56	0° Y		morning rise	2605 Mar 15 05:55	12° H 01'45	
morning max el	2604 Apr 22 21:59	5° Y 17'21	27°40'31	direct	2605 Mar 22 04:17	9° H 24'46	
	2604 May 11 08:08	0° B		desc. node	2605 Mar 27 15:06	10° H 48'58	
morning set	2604 May 25 03:23	25° B 39'58		morning max el	2605 Apr 05 03:53	17° H 21'15	27°49'02
	2604 May 27 05:04	0° II			2605 Apr 15 16:34	0° Y	
asc. node	2604 May 29 19:44	5° II 36'01			2605 May 04 02:04	0° B	
max. Earth dist.	2604 May 31 08:14	8° II 54'48	1.32205 AU	morning set	2605 May 09 04:07	9° B 55'18	
				max. Earth dist.	2605 May 14 15:38	21° B 20'22	1.32663 AU
superior conj	2604 Jun 01 09:16	11° II 12'00	0°26'47				
minimum elong	2604 Jun 01 08:05	11° II 05'31	0°26'32	superior conj	2605 May 16 18:13	25° B 52'44	0°00'39
evening rise	2604 Jun 08 05:44	26° II 06'46		minimum elong	2605 May 16 18:11	25° B 52'34	0°00'38
	2604 Jun 10 02:13	0° E		behind sun begin	2605 May 16 12:59	25° B 24'25	
	2604 Jun 27 11:26	0° Ω		behind sun end	2605 May 16 23:23	26° B 20'44	
evening max el	2604 Jul 05 04:07	8° Ω 53'37	25°20'50	asc. node	2605 May 16 16:45	25° B 44'51	
desc. node	2604 Jul 06 17:21	10° Ω 18'34			2605 May 18 15:45	0° II	
retrograde	2604 Jul 19 04:09	16° Ω 00'34		evening rise	2605 May 23 17:33	10° II 57'19	
evening set	2604 Jul 24 20:53	14° Ω 45'15			2605 Jun 02 11:40	0° E	
min. Earth dist.	2604 Jul 29 16:04	12° Ω 03'05	0.57872 AU	evening max el	2605 Jun 16 17:59	19° E 29'30	23°48'55
inferior conj	2604 Aug 01 18:53	9° Ω 53'57	-5°02'11	desc. node	2605 Jun 23 14:22	24° E 35'47	
minimum elong	2604 Aug 01 19:02	9° Ω 53'41	5°02'11	retrograde	2605 Jun 30 11:13	26° E 22'39	
morning rise	2604 Aug 09 19:39	5° Ω 38'34		evening set	2605 Jul 04 17:23	25° E 42'47	
direct	2604 Aug 12 08:35	5° Ω 19'01		min. Earth dist.	2605 Jul 11 04:25	22° E 38'36	0.56158 AU
morning max el	2604 Aug 21 00:01	9° Ω 23'41	18°55'54	inferior conj	2605 Jul 13 11:37	21° E 14'54	-4°41'15
asc. node	2604 Aug 25 18:57	15° Ω 03'27		minimum elong	2605 Jul 13 06:10	21° E 23'11	4°40'29
	2604 Sep 03 13:27	0° M		morning rise	2605 Jul 21 21:33	17° E 17'37	
morning set	2604 Sep 06 14:46	5° M 56'21		direct	2605 Jul 24 15:32	16° E 58'23	
				morning max el	2605 Aug 03 17:19	21° E 38'46	19°58'43
superior conj	2604 Sep 15 01:13	22° M 26'23	1°39'42		2605 Aug 10 13:07	0° Ω	
minimum elong	2604 Sep 15 03:21	22° M 36'31	1°39'35	asc. node	2605 Aug 12 16:01	3° Ω 20'49	
	2604 Sep 19 01:52	0° $\underline{\Omega}$		morning set	2605 Aug 21 18:36	20° Ω 28'06	
max. Earth dist.	2604 Sep 21 22:10	5° $\underline{\Omega}$ 10'02	1.38966 AU		2605 Aug 26 10:45	0° M	
evening rise	2604 Sep 25 19:32	11° $\underline{\Omega}$ 59'11					
desc. node	2604 Oct 02 16:43	23° $\underline{\Omega}$ 24'01		superior conj	2605 Aug 29 13:13	6° M 16'10	1°45'12
	2604 Oct 06 21:42	0° M		minimum elong	2605 Aug 29 13:33	6° M 17'48	1°45'12
	2604 Oct 29 05:34	0° Z		max. Earth dist.	2605 Sep 04 03:21	17° M 09'45	1.36963 AU
evening max el	2604 Oct 31 05:51	2° Z 04'39	24°28'06	evening rise	2605 Sep 07 23:15	24° M 15'12	
retrograde	2604 Nov 11 14:28	8° Z 42'53			2605 Sep 11 04:55	0° $\underline{\Omega}$	
evening set	2604 Nov 17 01:05	6° Z 26'26		desc. node	2605 Sep 19 13:44	13° $\underline{\Omega}$ 51'33	
min. Earth dist.	2604 Nov 21 17:08	1° Z 06'02	0.67587 AU		2605 Sep 30 13:14	0° M	
asc. node	2604 Nov 21 18:09	1° Z 02'38		evening max el	2605 Oct 13 18:03	15° M 45'43	25°40'54
inferior conj	2604 Nov 22 12:10	0° Z 02'18	0°15'28	retrograde	2605 Oct 26 00:33	22° M 46'55	
minimum elong	2604 Nov 22 11:48	0° Z 03'34	0°15'18	evening set	2605 Nov 01 01:25	20° M 15'58	
transit middle	2604 Nov 22 11:48	0° Z 03'34	0°15'18	min. Earth dist.	2605 Nov 05 09:47	15° M 30'49	0.66969 AU
transit begin	2604 Nov 22 10:52	0° Z 06'38		inferior conj	2605 Nov 06 15:47	13° M 55'19	-0°40'47
transit end	2604 Nov 22 12:43	0° Z 00'29		minimum elong	2605 Nov 06 16:50	13° M 51'57	0°40'20
	2604 Nov 22 12:51	30° R M		asc. node	2605 Nov 08 15:13	11° M 28'42	
morning rise	2604 Nov 27 22:33	23° M 59'27		morning rise	2605 Nov 12 08:33	8° M 00'49	

direct	2605 Nov 15 15:35	6°♍58'21		minimum elong	2606 Oct 21 17:12	27°♊36'18	1°38'27
morning max el	2605 Nov 22 16:04	10°♍54'01	19°11'33	asc. node	2606 Oct 26 12:18	22°♊44'03	
	2605 Dec 06 16:43	0°♊		morning rise	2606 Oct 27 15:27	22°♊01'01	
morning set	2605 Dec 15 21:06	14°♊11'53		direct	2606 Oct 30 13:15	21°♊13'45	
desc. node	2605 Dec 16 13:00	15°♊13'44		morning max el	2606 Nov 06 04:04	24°♊50'41	18°27'39
	2605 Dec 26 00:04	0°♊			2606 Nov 10 11:34	0°♍	
max. Earth dist.	2605 Dec 29 21:01	6°♊05'18	1.44824 AU	morning set	2606 Nov 26 00:51	24°♍04'23	
					2606 Nov 29 17:38	0°♊	
superior conj	2606 Jan 01 14:37	10°♊24'41	-1°35'18	desc. node	2606 Dec 03 10:01	5°♊51'51	
minimum elong	2606 Jan 01 05:47	9°♊49'40	1°34'29				
	2606 Jan 13 18:23	0°♊		superior conj	2606 Dec 11 16:21	18°♊54'09	-0°53'46
evening rise	2606 Jan 16 06:24	4°♊06'29		minimum elong	2606 Dec 11 09:35	18°♊27'35	0°52'54
	2606 Feb 01 16:16	0°♊		max. Earth dist.	2606 Dec 12 15:42	20°♊25'49	1.45185 AU
asc. node	2606 Feb 04 14:30	3°♊30'48			2606 Dec 18 18:06	0°♊	
evening max el	2606 Feb 05 00:42	3°♊57'18	18°29'54	evening rise	2606 Dec 27 18:01	14°♊09'39	
retrograde	2606 Feb 11 13:37	7°♊32'40		greatest brilliancy	2607 Jan 06 13:06	29°♊35'22	-0.8m
evening set	2606 Feb 14 15:37	6°♊39'46			2607 Jan 06 19:26	0°♊	
inferior conj	2606 Feb 20 11:37	1°♊07'43	3°38'42	evening max el	2607 Jan 19 10:15	17°♊25'05	19°07'15
minimum elong	2606 Feb 20 10:38	1°♊10'37	3°38'39	asc. node	2607 Jan 22 11:34	20°♊01'43	
	2606 Feb 21 10:31	30°♋		retrograde	2607 Jan 26 09:07	21°♊22'35	
min. Earth dist.	2606 Feb 22 14:23	28°♋38'40	0.64528 AU	evening set	2607 Jan 29 17:32	20°♋17'15	
morning rise	2606 Feb 26 05:06	24°♋59'03		inferior conj	2607 Feb 04 07:31	14°♋28'44	3°22'39
direct	2606 Mar 05 00:33	22°♋08'57		minimum elong	2607 Feb 04 05:27	14°♋35'18	3°22'20
desc. node	2606 Mar 14 12:09	26°♋20'49		min. Earth dist.	2607 Feb 05 18:59	12°♋36'01	0.65961 AU
morning max el	2606 Mar 18 13:11	0°♋00'24	27°21'46	morning rise	2607 Feb 09 17:05	8°♋16'28	
	2606 Mar 18 13:02	0°♋		direct	2607 Feb 16 03:21	5°♋26'59	
	2606 Apr 09 15:41	0°♋		morning max el	2607 Feb 28 23:07	13°♋02'03	26°25'02
morning set	2606 Apr 22 20:32	23°♋42'17		desc. node	2607 Mar 01 09:12	13°♋27'39	
	2606 Apr 26 00:20	0°♋			2607 Mar 14 16:04	0°♋	
max. Earth dist.	2606 Apr 27 15:07	3°♋18'28	1.33557 AU		2607 Apr 02 07:48	0°♋	
				morning set	2607 Apr 06 01:01	6°♋50'03	
superior conj	2606 Apr 30 22:58	10°♋16'13	-0°27'12	max. Earth dist.	2607 Apr 10 03:30	14°♋43'39	1.34902 AU
minimum elong	2606 May 01 00:20	10°♋23'31	0°26'55				
asc. node	2606 May 03 13:49	15°♋50'57		superior conj	2607 Apr 14 21:13	24°♋15'42	-0°55'30
evening rise	2606 May 08 04:45	25°♋41'22		minimum elong	2607 Apr 15 00:04	24°♋30'21	0°54'58
	2606 May 10 06:34	0°♌			2607 Apr 17 15:46	0°♋	
	2606 May 29 10:28	0°♌		asc. node	2607 Apr 20 10:52	5°♋50'10	
evening max el	2606 May 29 09:32	29°♌57'43	22°12'45	evening rise	2607 Apr 22 13:22	10°♋12'29	
desc. node	2606 Jun 10 11:23	6°♌18'19			2607 May 03 01:55	0°♌	
retrograde	2606 Jun 11 06:16	6°♌19'45		evening max el	2607 May 11 10:07	10°♌49'58	20°46'08
evening set	2606 Jun 14 03:13	6°♌01'27		retrograde	2607 May 22 19:27	16°♌22'59	
min. Earth dist.	2606 Jun 22 15:30	2°♌22'06	0.55093 AU	evening set	2607 May 24 21:59	16°♌12'20	
inferior conj	2606 Jun 23 11:19	1°♌54'13	-3°31'44	desc. node	2607 May 28 08:23	15°♌13'31	
minimum elong	2606 Jun 23 03:12	2°♌05'38	3°29'30	inferior conj	2607 Jun 03 04:56	12°♌14'39	-1°42'19
	2606 Jun 26 23:52	30°♌		minimum elong	2607 Jun 03 00:07	12°♌21'32	1°40'35
morning rise	2606 Jul 02 05:03	28°♌02'39		min. Earth dist.	2607 Jun 04 03:47	11°♌42'00	0.54932 AU
direct	2606 Jul 05 06:01	27°♌41'57		morning rise	2607 Jun 12 01:46	8°♌08'43	
	2606 Jul 12 20:23	0°♌		direct	2607 Jun 15 15:22	7°♌41'19	
morning max el	2606 Jul 16 23:04	3°♌09'33	21°21'56	morning max el	2607 Jun 28 18:58	14°♌00'40	23°00'03
asc. node	2606 Jul 30 13:05	22°♌15'16			2607 Jul 11 00:48	0°♌	
	2606 Aug 03 13:34	0°♌		asc. node	2607 Jul 17 10:08	11°♌37'43	
morning set	2606 Aug 06 02:59	5°♌13'30		morning set	2607 Jul 21 13:58	20°♌07'02	
					2607 Jul 26 05:05	0°♌	
superior conj	2606 Aug 13 11:15	20°♌36'05	1°42'57	superior conj	2607 Jul 28 16:06	5°♌16'33	1°34'24
minimum elong	2606 Aug 13 10:10	20°♌30'25	1°42'54	minimum elong	2607 Jul 28 14:07	5°♌05'53	1°34'12
max. Earth dist.	2606 Aug 17 14:24	29°♌01'49	1.35211 AU	max. Earth dist.	2607 Jul 31 10:18	11°♌06'48	1.33832 AU
	2606 Aug 18 02:04	0°♍		evening rise	2607 Aug 05 09:07	21°♌12'22	
evening rise	2606 Aug 21 21:16	7°♍23'27			2607 Aug 09 23:16	0°♍	
	2606 Sep 03 20:41	0°♍		desc. node	2607 Aug 24 07:45	23°♍48'17	
desc. node	2606 Sep 06 10:45	4°♍02'08			2607 Aug 28 17:32	0°♍	
evening max el	2606 Sep 26 06:17	29°♍23'41	26°39'30	evening max el	2607 Sep 08 18:18	12°♍49'58	27°16'33
	2606 Sep 26 21:36	0°♍		retrograde	2607 Sep 22 04:55	20°♍08'40	
retrograde	2606 Oct 09 05:29	6°♍38'01		evening set	2607 Sep 29 05:09	17°♍25'47	
evening set	2606 Oct 15 19:35	3°♍57'09		min. Earth dist.	2607 Oct 02 23:59	13°♍52'32	0.64683 AU
	2606 Oct 19 16:48	30°♎		inferior conj	2607 Oct 05 06:07	11°♍25'07	-2°38'47
min. Earth dist.	2606 Oct 19 20:47	29°♍48'21	0.66004 AU	minimum elong	2607 Oct 05 10:24	11°♍13'27	2°37'13
inferior conj	2606 Oct 21 14:31	27°♍44'18	-1°39'34				

morning rise	2607 Oct 11 16:41	5°♊56'00			2608 Sep 11 21:41	30°♏♏	
asc. node	2607 Oct 13 09:20	5°♊24'39		min. Earth dist.	2608 Sep 14 17:32	27°♏32'39	0.63021 AU
direct	2607 Oct 14 07:40	5°♊20'05		inferior conj	2608 Sep 17 11:51	24°♏50'30	-3°35'18
morning max el	2607 Oct 20 19:41	8°♊47'36	18°00'34	minimum elong	2608 Sep 17 17:14	24°♏37'17	3°33'44
	2607 Nov 04 04:47	0°♌		morning rise	2608 Sep 24 09:05	19°♏38'46	
morning set	2607 Nov 07 09:44	5°♌23'04		direct	2608 Sep 26 19:55	19°♏10'40	
desc. node	2607 Nov 20 07:04	26°♌36'29		asc. node	2608 Sep 29 06:22	19°♏39'03	
				morning max el	2608 Oct 03 11:54	22°♏36'49	17°51'07
superior conj	2607 Nov 21 02:17	27°♌53'36	-0°05'27		2608 Oct 09 05:53	0°♊	
minimum elong	2607 Nov 21 01:37	27°♌50'55	0°05'22	morning set	2608 Oct 19 18:43	17°♊50'59	
behind sun begin	2607 Nov 20 15:38	27°♌10'52			2608 Oct 26 17:48	0°♌	
behind sun end	2607 Nov 21 11:36	28°♌30'55					
	2607 Nov 22 09:54	0°♍		superior conj	2608 Oct 31 11:50	8°♌03'24	0°38'16
max. Earth dist.	2607 Nov 25 10:27	4°♍47'58	1.44808 AU	minimum elong	2608 Oct 31 15:26	8°♌18'23	0°37'46
evening rise	2607 Dec 07 10:00	23°♍28'24		desc. node	2608 Nov 06 04:06	17°♌23'45	
	2607 Dec 11 15:53	0°♎		max. Earth dist.	2608 Nov 07 02:39	18°♌54'44	1.43743 AU
greatest brilliancy	2607 Dec 21 13:51	14°♎59'19	-0.6m		2608 Nov 14 02:48	0°♍	
	2608 Jan 01 18:36	0°♏		evening rise	2608 Nov 15 18:40	2°♍34'40	
evening max el	2608 Jan 02 15:20	0°♏55'07	20°00'32		2608 Dec 04 05:01	0°♎	
asc. node	2608 Jan 09 08:36	5°♏18'31		evening max el	2608 Dec 15 15:01	14°♎26'34	21°07'04
retrograde	2608 Jan 10 06:52	5°♏23'16		retrograde	2608 Dec 24 04:33	19°♎31'13	
evening set	2608 Jan 13 23:10	4°♏04'14		asc. node	2608 Dec 26 05:36	19°♎08'07	
	2608 Jan 17 21:39	30°♏3		evening set	2608 Dec 28 06:36	17°♎57'02	
inferior conj	2608 Jan 19 09:31	28°♎01'56	2°55'17	inferior conj	2609 Jan 02 15:14	11°♎43'58	2°19'03
minimum elong	2608 Jan 19 06:59	28°♎10'28	2°54'40	minimum elong	2609 Jan 02 12:45	11°♎52'35	2°18'14
min. Earth dist.	2608 Jan 20 07:02	26°♎49'52	0.66989 AU	min. Earth dist.	2609 Jan 03 00:16	11°♎12'53	0.67620 AU
morning rise	2608 Jan 24 14:34	21°♎48'25		morning rise	2609 Jan 07 18:42	5°♎31'05	
direct	2608 Jan 30 11:59	19°♎10'37		direct	2609 Jan 13 01:27	3°♎12'25	
morning max el	2608 Feb 11 07:58	26°♎14'31	25°07'50	morning max el	2609 Jan 23 16:26	9°♎32'10	23°40'31
	2608 Feb 14 19:17	0°♏		desc. node	2609 Feb 02 03:18	20°♎45'45	
desc. node	2608 Feb 16 06:14	1°♏42'27			2609 Feb 08 19:47	0°♏	
	2608 Mar 07 05:58	0°♐			2609 Feb 27 23:16	0°♐	
morning set	2608 Mar 18 12:39	19°♐04'28		morning set	2609 Feb 28 01:23	0°♐09'02	
max. Earth dist.	2608 Mar 22 04:27	25°♐45'30	1.36683 AU	max. Earth dist.	2609 Mar 03 23:28	6°♐56'28	1.38775 AU
	2608 Mar 24 10:32	0°♑					
superior conj	2608 Mar 28 10:04	7°♑43'05	-1°22'33	superior conj	2609 Mar 11 09:48	20°♐28'53	-1°45'48
minimum elong	2608 Mar 28 14:07	8°♑03'07	1°21'57	minimum elong	2609 Mar 11 14:11	20°♐49'29	1°45'21
evening rise	2608 Apr 05 17:10	24°♑23'46			2609 Mar 16 09:15	0°♑	
asc. node	2608 Apr 06 07:54	25°♑37'48		evening rise	2609 Mar 20 13:29	8°♑08'11	
	2608 Apr 08 12:44	0°♒		asc. node	2609 Mar 24 04:55	15°♑08'57	
evening max el	2608 Apr 22 22:43	22°♒21'38	19°36'35		2609 Apr 02 01:18	0°♒	
retrograde	2608 May 02 14:13	27°♒01'39		evening max el	2609 Apr 05 22:02	4°♒32'24	18°46'47
evening set	2608 May 04 14:34	26°♒50'21		retrograde	2609 Apr 14 01:28	8°♒30'40	
inferior conj	2608 May 13 06:59	22°♒46'45	0°16'16	evening set	2609 Apr 16 07:02	8°♒13'54	
minimum elong	2608 May 13 07:42	22°♒45'38	0°16'01	inferior conj	2609 Apr 24 03:48	3°♒53'17	1°53'40
desc. node	2608 May 14 05:25	22°♒11'10		minimum elong	2609 Apr 27 07:30	3°♒46'29	1°52'32
min. Earth dist.	2608 May 15 17:58	21°♒13'48	0.55738 AU	min. Earth dist.	2609 Apr 27 10:40	1°♒29'28	0.57331 AU
morning rise	2608 May 21 22:11	18°♒10'06			2609 Apr 29 17:27	30°♒♑	
direct	2608 May 26 09:13	17°♒25'30		desc. node	2609 May 01 02:26	29°♑14'01	
morning max el	2608 Jun 09 09:33	24°♒28'05	24°42'10	morning rise	2609 May 02 04:48	28°♑42'33	
	2608 Jun 14 11:27	0°♓		direct	2609 May 07 16:48	27°♑28'43	
	2608 Jul 02 15:34	0°♔			2609 May 15 18:02	0°♒	
asc. node	2608 Jul 03 07:10	1°♔19'59		morning max el	2609 May 22 00:56	4°♒59'13	26°13'13
morning set	2608 Jul 05 01:46	5°♔02'28			2609 Jun 09 05:57	0°♓	
				morning set	2609 Jun 19 12:49	19°♓54'49	
superior conj	2608 Jul 12 01:11	20°♔08'20	1°20'37	asc. node	2609 Jun 20 04:12	21°♓16'12	
minimum elong	2608 Jul 11 22:48	19°♔55'25	1°20'17		2609 Jun 24 05:00	0°♔	
max. Earth dist.	2608 Jul 13 14:38	23°♔31'33	1.32868 AU	superior conj	2609 Jun 26 12:28	5°♔04'57	1°02'29
	2608 Jul 16 15:20	0°♕		minimum elong	2609 Jun 26 10:13	4°♔52'32	1°02'06
evening rise	2608 Jul 19 06:54	5°♕29'52		max. Earth dist.	2609 Jun 27 00:45	6°♔12'25	1.32310 AU
	2608 Aug 01 13:58	0°♖		evening rise	2609 Jul 03 11:34	20°♔06'40	
desc. node	2608 Aug 10 04:46	12°♖58'49			2609 Jul 08 09:22	0°♕	
evening max el	2608 Aug 21 04:26	25°♖51'38	27°25'33		2609 Jul 27 00:27	0°♖	
	2608 Aug 26 05:56	0°♗		desc. node	2609 Jul 28 01:45	1°♖19'09	
retrograde	2608 Sep 03 21:59	3°♗08'35		evening max el	2609 Aug 03 10:10	8°♖15'58	27°01'56
evening set	2608 Sep 11 02:48	0°♗34'53		retrograde	2609 Aug 17 07:39	15°♖28'56	

evening set	2609 Aug 24 08:23	13° \mathbb{M} 17'17		min. Earth dist.	2610 Aug 09 21:32	22° Ω 49'02	0.59022 AU
min. Earth dist.	2609 Aug 28 00:27	10° \mathbb{M} 36'09	0.61088 AU	inferior conj	2610 Aug 13 04:27	20° Ω 21'32	-4°56'05
inferior conj	2609 Aug 31 04:29	7° \mathbb{M} 52'28	-4°23'56	minimum elong	2610 Aug 13 07:15	20° Ω 16'15	4°55'51
minimum elong	2609 Aug 31 09:43	7° \mathbb{M} 41'08	4°22'54	morning rise	2610 Aug 20 23:29	15° Ω 53'33	
morning rise	2609 Sep 07 12:47	3° \mathbb{M} 01'25		direct	2610 Aug 23 10:38	15° Ω 33'03	
direct	2609 Sep 09 22:24	2° \mathbb{M} 38'09		morning max el	2610 Aug 31 09:57	19° Ω 22'24	18°29'42
asc. node	2609 Sep 16 03:24	5° \mathbb{M} 20'04		asc. node	2610 Sep 03 00:27	22° Ω 13'35	
morning max el	2609 Sep 17 01:41	6° \mathbb{M} 11'07	18°00'23		2610 Sep 08 07:41	0° \mathbb{M}	
	2609 Oct 02 06:22	0° Ω		morning set	2610 Sep 16 12:49	15° \mathbb{M} 04'33	
morning set	2609 Oct 02 21:27	1° Ω 09'33			2610 Sep 24 08:04	0° Ω	
superior conj	2609 Oct 13 00:14	19° Ω 31'46	1°11'12	superior conj	2610 Sep 25 11:29	2° Ω 07'50	1°32'23
minimum elong	2609 Oct 13 04:37	19° Ω 51'06	1°10'42	minimum elong	2610 Sep 25 14:38	2° Ω 22'30	1°32'08
	2609 Oct 19 02:15	0° \mathbb{M}		max. Earth dist.	2610 Oct 02 21:13	15° Ω 26'18	1.40149 AU
max. Earth dist.	2609 Oct 20 14:30	2° \mathbb{M} 31'27	1.42122 AU	evening rise	2610 Oct 07 04:11	22° Ω 44'15	
desc. node	2609 Oct 24 01:07	8° \mathbb{M} 10'15		desc. node	2610 Oct 10 22:07	28° Ω 52'50	
evening rise	2609 Oct 26 12:50	12° \mathbb{M} 10'05			2610 Oct 11 14:50	0° \mathbb{M}	
	2609 Nov 07 03:52	0° \mathbb{M}			2610 Nov 01 03:16	0° \mathbb{M}	
evening max el	2609 Nov 28 09:19	27° \mathbb{M} 59'18	22°22'54	evening max el	2610 Nov 10 23:33	11° \mathbb{M} 34'47	23°42'47
	2609 Nov 30 12:21	0° \mathbb{M}		retrograde	2610 Nov 21 17:29	17° \mathbb{M} 55'19	
retrograde	2609 Dec 08 00:31	3° \mathbb{M} 42'54		evening set	2610 Nov 26 20:12	15° \mathbb{M} 47'50	
evening set	2609 Dec 12 14:07	1° \mathbb{M} 52'16		asc. node	2610 Nov 29 23:40	12° \mathbb{M} 24'45	
asc. node	2609 Dec 13 02:38	1° \mathbb{M} 25'13		min. Earth dist.	2610 Dec 01 16:54	10° \mathbb{M} 08'14	0.67789 AU
	2609 Dec 14 11:57	30° \mathbb{M}		inferior conj	2610 Dec 02 05:58	9° \mathbb{M} 23'42	0°46'09
inferior conj	2609 Dec 17 22:38	25° \mathbb{M} 31'46	1°35'33	minimum elong	2610 Dec 02 04:54	9° \mathbb{M} 27'22	0°45'41
minimum elong	2609 Dec 17 20:39	25° \mathbb{M} 38'39	1°34'47	morning rise	2610 Dec 07 13:35	3° \mathbb{M} 17'36	
min. Earth dist.	2609 Dec 17 20:18	25° \mathbb{M} 39'53	0.67879 AU	direct	2610 Dec 11 15:16	1° \mathbb{M} 44'22	
morning rise	2609 Dec 23 03:03	19° \mathbb{M} 21'19		morning max el	2610 Dec 19 21:29	6° \mathbb{M} 30'56	20°52'16
direct	2609 Dec 27 18:51	17° \mathbb{M} 25'18		desc. node	2611 Jan 06 21:23	0° \mathbb{M} 25'52	
morning max el	2610 Jan 06 03:46	22° \mathbb{M} 56'15	22°12'45		2611 Jan 06 14:24	0° \mathbb{M}	
	2610 Jan 12 07:11	0° \mathbb{M}		morning set	2611 Jan 18 15:31	18° \mathbb{M} 19'35	
desc. node	2610 Jan 20 00:20	10° \mathbb{M} 23'19			2611 Jan 26 00:01	0° \mathbb{M}	
	2610 Feb 02 04:50	0° \mathbb{M}		max. Earth dist.	2611 Jan 27 01:10	1° \mathbb{M} 41'50	1.42850 AU
morning set	2610 Feb 08 09:44	9° \mathbb{M} 50'18		superior conj	2611 Feb 02 22:26	13° \mathbb{M} 06'27	-2°05'20
max. Earth dist.	2610 Feb 13 20:52	18° \mathbb{M} 51'22	1.40931 AU	minimum elong	2611 Feb 02 21:07	13° \mathbb{M} 00'53	2°05'19
	2610 Feb 20 07:59	0° \mathbb{M}			2611 Feb 12 15:57	0° \mathbb{M}	
superior conj	2610 Feb 21 15:38	2° \mathbb{M} 20'29	-2°01'39	evening rise	2611 Feb 14 17:52	3° \mathbb{M} 42'06	
minimum elong	2610 Feb 21 18:30	2° \mathbb{M} 33'15	2°01'31	asc. node	2611 Feb 25 22:58	22° \mathbb{M} 54'57	
evening rise	2610 Mar 03 23:01	21° \mathbb{M} 16'59			2611 Mar 03 09:29	0° \mathbb{M}	
	2610 Mar 08 16:06	0° \mathbb{M}		evening max el	2611 Mar 03 16:13	0° \mathbb{M} 16'56	18°07'06
asc. node	2610 Mar 11 01:57	4° \mathbb{M} 17'02		retrograde	2611 Mar 10 06:10	3° \mathbb{M} 40'33	
evening max el	2610 Mar 20 04:56	17° \mathbb{M} 13'34	18°17'04	evening set	2611 Mar 12 23:25	3° \mathbb{M} 05'35	
retrograde	2610 Mar 27 07:51	20° \mathbb{M} 46'42			2611 Mar 17 10:28	30° \mathbb{M}	
evening set	2610 Mar 29 19:34	20° \mathbb{M} 21'37		inferior conj	2611 Mar 19 11:05	28° \mathbb{M} 03'36	3°31'41
inferior conj	2610 Apr 05 21:57	15° \mathbb{M} 40'13	2°58'02	minimum elong	2611 Mar 19 12:52	27° \mathbb{M} 59'11	3°31'31
minimum elong	2610 Apr 06 01:27	15° \mathbb{M} 32'41	2°57'18	min. Earth dist.	2611 Mar 22 12:55	25° \mathbb{M} 01'48	0.61532 AU
min. Earth dist.	2610 Apr 09 08:01	12° \mathbb{M} 45'06	0.59376 AU	morning rise	2611 Mar 26 00:41	22° \mathbb{M} 07'47	
morning rise	2610 Apr 13 04:48	10° \mathbb{M} 02'02		direct	2611 Apr 01 20:38	19° \mathbb{M} 44'57	
desc. node	2610 Apr 17 23:28	8° \mathbb{M} 19'00		desc. node	2611 Apr 04 20:32	20° \mathbb{M} 10'19	
direct	2610 Apr 19 13:13	8° \mathbb{M} 12'18		morning max el	2611 Apr 16 00:53	27° \mathbb{M} 40'45	27°48'43
morning max el	2610 May 03 21:41	15° \mathbb{M} 59'14	27°18'36		2611 Apr 18 06:20	0° \mathbb{M}	
	2610 May 15 08:12	0° \mathbb{M}			2611 May 09 01:02	0° \mathbb{M}	
	2610 Jun 01 15:17	0° \mathbb{M}		morning set	2611 May 19 01:47	19° \mathbb{M} 06'17	
morning set	2610 Jun 03 21:28	4° \mathbb{M} 38'14			2611 May 24 05:46	0° \mathbb{M}	
asc. node	2610 Jun 07 01:14	11° \mathbb{M} 20'48		asc. node	2611 May 24 22:17	1° \mathbb{M} 29'22	
max. Earth dist.	2610 Jun 10 12:59	18° \mathbb{M} 58'07	1.32135 AU	max. Earth dist.	2611 May 24 23:18	1° \mathbb{M} 34'56	1.32351 AU
superior conj	2610 Jun 11 00:13	19° \mathbb{M} 59'57	0°40'42	superior conj	2611 May 26 10:42	4° \mathbb{M} 47'43	0°15'57
minimum elong	2610 Jun 10 22:31	19° \mathbb{M} 50'38	0°40'22	minimum elong	2611 May 26 09:58	4° \mathbb{M} 43'43	0°15'48
	2610 Jun 15 13:41	0° \mathbb{M}		behind sun begin	2611 May 26 09:29	4° \mathbb{M} 41'00	
evening rise	2610 Jun 17 20:37	4° \mathbb{M} 54'16		behind sun end	2611 May 26 10:28	4° \mathbb{M} 46'26	
	2610 Jul 01 03:43	0° Ω		evening rise	2611 Jun 02 07:59	19° \mathbb{M} 45'36	
desc. node	2610 Jul 14 22:45	18° Ω 28'44			2611 Jun 07 07:54	0° \mathbb{M}	
evening max el	2610 Jul 16 08:58	19° Ω 53'22	26°05'37		2611 Jun 27 06:04	0° Ω	
retrograde	2610 Jul 30 08:36	27° Ω 03'09		evening max el	2611 Jun 28 00:47	0° Ω 45'57	24°43'06
evening set	2610 Aug 05 17:11	25° Ω 25'07		desc. node	2611 Jul 01 19:46	3° Ω 58'56	

retrograde	2611 Jul 11 23:12	7°♎49'25		behind sun end	2612 May 09 22:38	19°♎46'29	
evening set	2611 Jul 17 02:08	6°♎50'03		asc. node	2612 May 10 19:20	21°♎37'57	
min. Earth dist.	2611 Jul 22 12:00	4°♎00'16	0.57079 AU		2612 May 14 16:21	0°♎	
inferior conj	2611 Jul 25 08:45	2°♎08'24	-4°58'50	evening rise	2612 May 16 19:49	4°♎34'36	
minimum elong	2611 Jul 25 06:32	2°♎12'03	4°58'42		2612 May 30 13:28	0°♎	
	2611 Jul 28 19:50	30°♎		evening max el	2612 Jun 08 14:27	11°♎15'21	23°07'38
morning rise	2611 Aug 02 13:36	28°♎02'08		desc. node	2612 Jun 17 16:48	17°♎14'53	
direct	2611 Aug 05 04:26	27°♎42'58		retrograde	2612 Jun 22 01:28	17°♎58'12	
	2611 Aug 11 21:55	0°♎		evening set	2612 Jun 25 16:02	17°♎29'42	
morning max el	2611 Aug 14 09:34	2°♎01'00	19°20'08	min. Earth dist.	2612 Jul 02 23:52	14°♎11'54	0.55603 AU
asc. node	2611 Aug 20 21:31	10°♎04'11		inferior conj	2612 Jul 04 17:33	13°♎11'06	-4°17'50
morning set	2611 Aug 31 12:57	29°♎24'53		minimum elong	2612 Jul 04 10:19	13°♎21'41	4°16'23
	2611 Aug 31 19:59	0°♎		morning rise	2612 Jul 13 07:04	9°♎18'05	
				direct	2612 Jul 16 03:22	8°♎58'42	
superior conj	2611 Sep 08 15:54	15°♎34'51	1°43'06	morning max el	2612 Jul 26 22:09	13°♎58'36	20°31'48
minimum elong	2611 Sep 08 17:14	15°♎41'21	1°43'02	asc. node	2612 Aug 06 18:36	28°♎38'53	
max. Earth dist.	2611 Sep 15 00:55	27°♎38'57	1.38084 AU		2612 Aug 07 13:03	0°♎	
	2611 Sep 16 07:56	0°♎		morning set	2612 Aug 14 19:00	14°♎03'14	
evening rise	2611 Sep 18 19:21	4°♎24'34					
desc. node	2611 Sep 27 19:08	19°♎26'57		superior conj	2612 Aug 22 08:40	29°♎39'04	1°45'05
	2611 Oct 04 16:11	0°♎		minimum elong	2612 Aug 22 08:20	29°♎37'22	1°45'05
evening max el	2611 Oct 24 11:45	25°♎13'21	25°00'19		2612 Aug 22 12:47	0°♎	
	2611 Oct 30 06:52	0°♎		max. Earth dist.	2612 Aug 27 07:39	9°♎30'50	1.36176 AU
retrograde	2611 Nov 05 06:27	2°♎03'28		evening rise	2612 Aug 31 07:30	17°♎04'45	
evening set	2611 Nov 10 23:08	29°♎40'14			2612 Sep 07 15:06	0°♎	
	2611 Nov 10 13:33	30°♎		desc. node	2612 Sep 13 16:08	9°♎47'50	
min. Earth dist.	2611 Nov 15 11:44	24°♎34'42	0.67360 AU		2612 Sep 28 00:42	0°♎	
inferior conj	2611 Nov 16 11:26	23°♎16'47	-0°08'00	evening max el	2612 Oct 05 23:55	8°♎53'45	26°08'03
minimum elong	2611 Nov 16 11:38	23°♎16'08	0°07'54	retrograde	2612 Oct 18 14:33	16°♎02'14	
transit middle	2611 Nov 16 11:38	23°♎16'08	0°07'54	evening set	2612 Oct 24 21:06	13°♎26'30	
transit begin	2611 Nov 16 09:13	23°♎24'05		min. Earth dist.	2612 Oct 29 02:23	8°♎56'28	0.66597 AU
transit end	2611 Nov 16 14:03	23°♎08'11		inferior conj	2612 Oct 30 13:13	7°♎08'22	-1°05'33
asc. node	2611 Nov 16 20:44	22°♎46'16		minimum elong	2612 Oct 30 14:57	7°♎02'58	1°04'47
morning rise	2611 Nov 22 00:19	17°♎17'14		asc. node	2612 Nov 02 17:49	3°♎26'52	
direct	2611 Nov 25 13:30	16°♎04'35		morning rise	2612 Nov 05 09:14	1°♎18'01	
morning max el	2611 Dec 02 22:59	20°♎16'07	19°44'02	direct	2612 Nov 08 12:00	0°♎22'32	
	2611 Dec 10 19:33	0°♎		morning max el	2612 Nov 15 07:38	4°♎09'24	18°50'47
greatest brilliancy	2611 Dec 16 04:46	7°♎47'25	-0.7m		2612 Dec 03 10:53	0°♎	
desc. node	2611 Dec 24 18:26	20°♎45'55		morning set	2612 Dec 06 23:24	5°♎32'16	
morning set	2611 Dec 28 11:41	26°♎29'26		desc. node	2612 Dec 10 15:26	11°♎18'22	
	2611 Dec 30 18:05	0°♎		max. Earth dist.	2612 Dec 22 05:05	29°♎27'52	1.45065 AU
max. Earth dist.	2612 Jan 09 12:25	15°♎18'42	1.44281 AU		2612 Dec 22 13:15	0°♎	
superior conj	2612 Jan 14 02:59	22°♎41'17	-1°51'53	superior conj	2612 Dec 23 10:00	1°♎21'34	-1°19'19
minimum elong	2612 Jan 13 20:04	22°♎13'23	1°51'25	minimum elong	2612 Dec 23 01:11	0°♎46'55	1°18'20
	2612 Jan 18 14:45	0°♎		evening rise	2613 Jan 07 18:31	25°♎49'08	
evening rise	2612 Jan 27 17:35	15°♎14'34			2613 Jan 10 08:33	0°♎	
	2612 Feb 05 11:59	0°♎		evening max el	2613 Jan 28 16:16	27°♎00'25	18°43'50
asc. node	2612 Feb 12 20:01	10°♎53'19		asc. node	2613 Jan 29 17:05	28°♎00'07	
evening max el	2612 Feb 15 04:52	13°♎34'45	18°16'21		2613 Feb 01 12:30	0°♎	
retrograde	2612 Feb 21 15:46	17°♎02'27		retrograde	2613 Feb 04 08:31	0°♎43'47	
evening set	2612 Feb 24 14:24	16°♎16'28			2613 Feb 07 02:59	30°♎	
inferior conj	2612 Mar 01 15:10	10°♎55'09	3°41'27	evening set	2613 Feb 07 13:06	29°♎45'47	
minimum elong	2612 Mar 01 15:05	10°♎55'25	3°41'27	inferior conj	2613 Feb 13 06:15	24°♎06'46	3°33'29
min. Earth dist.	2612 Mar 04 03:03	8°♎09'08	0.63522 AU	minimum elong	2613 Feb 13 04:44	24°♎11'24	3°33'19
morning rise	2612 Mar 07 14:52	4°♎49'43		min. Earth dist.	2613 Feb 15 02:30	21°♎52'04	0.65186 AU
direct	2612 Mar 14 12:53	2°♎05'05		morning rise	2613 Feb 18 19:55	17°♎56'22	
desc. node	2612 Mar 21 17:36	4°♎31'40		direct	2613 Feb 25 12:15	15°♎04'39	
morning max el	2612 Mar 28 08:41	10°♎01'34	27°41'29	desc. node	2613 Mar 08 14:39	20°♎47'21	
	2612 Apr 12 23:58	0°♎		morning max el	2613 Mar 10 18:19	22°♎50'53	27°00'45
	2612 Apr 30 08:36	0°♎			2613 Mar 17 02:21	0°♎	
morning set	2612 May 01 23:27	3°♎11'36			2613 Apr 06 06:34	0°♎	
max. Earth dist.	2612 May 07 03:45	13°♎50'08	1.32984 AU	morning set	2613 Apr 15 11:16	16°♎43'23	
				max. Earth dist.	2613 Apr 19 22:32	25°♎33'08	1.34071 AU
					2613 Apr 22 02:43	0°♎	
superior conj	2612 May 09 18:11	19°♎22'37	-0°11'01				
minimum elong	2612 May 09 18:44	19°♎25'32	0°10'55				
behind sun begin	2612 May 09 14:50	19°♎04'36		superior conj	2613 Apr 23 20:29	3°♎37'07	-0°39'12

minimum elong	2613 Apr 23 22:30	3°  47'37	0°38'49	minimum elong	2614 Apr 07 18:33	17°  41'24	1°06'39
asc. node	2613 Apr 27 16:22	11°  41'42		asc. node	2614 Apr 13 18:37	0° 	
evening rise	2613 May 01 06:09	19°  13'57		evening rise	2614 Apr 14 13:24	1°  36'40	
	2613 May 06 14:27	0° 			2614 Apr 15 13:00	3°  37'37	
evening max el	2613 May 21 09:22	21°  51'37	21°34'13		2614 Apr 30 21:07	0° 	
retrograde	2613 Jun 02 16:26	27°  53'37		evening max el	2614 May 03 14:58	2°  59'34	20°14'10
desc. node	2613 Jun 04 13:51	27°  45'27		retrograde	2614 May 14 06:07	8°  09'15	
evening set	2613 Jun 05 03:18	27°  39'59		evening set	2614 May 16 06:30	7°  58'55	
inferior conj	2613 Jun 14 13:01	23°  39'10	-2°48'47	desc. node	2614 May 22 10:52	5°  39'33	
minimum elong	2613 Jun 14 05:39	23°  49'27	2°46'26	inferior conj	2614 May 25 08:26	4°  00'17	-0°51'01
min. Earth dist.	2613 Jun 14 11:27	23°  41'21	0.54912 AU	minimum elong	2614 May 25 06:03	4°  03'50	0°50'08
morning rise	2613 Jun 23 08:52	19°  43'44		min. Earth dist.	2614 May 27 00:06	3°  01'48	0.55174 AU
direct	2613 Jun 26 14:27	19°  20'54			2614 Jun 02 06:05	30° 	
morning max el	2613 Jul 08 23:12	25°  10'56	22°02'11	morning rise	2614 Jun 03 04:09	29°  43'05	
	2613 Jul 13 10:00	0° 		direct	2614 Jun 07 02:07	29°  09'53	
asc. node	2613 Jul 24 15:38	17°  46'10			2614 Jun 11 19:43	0° 	
morning set	2613 Jul 30 04:43	28°  52'34		morning max el	2614 Jun 20 15:57	5°  48'17	23°43'45
	2613 Jul 30 17:37	0° 			2614 Jul 07 18:13	0° 	
				asc. node	2614 Jul 11 12:39	7°  47'40	
superior conj	2613 Aug 06 09:56	14°  08'26	1°40'00	morning set	2614 Jul 14 16:14	13°  47'29	
minimum elong	2613 Aug 06 08:23	14°  00'20	1°39'55				
max. Earth dist.	2613 Aug 09 22:26	21°  02'58	1.34583 AU	superior conj	2614 Jul 21 16:49	28°  54'13	1°29'07
evening rise	2613 Aug 14 11:57	0° 		minimum elong	2614 Jul 21 14:36	28°  42'15	1°28'52
	2613 Aug 14 05:22	0° 			2614 Jul 22 05:02	0° 	
desc. node	2613 Aug 31 13:10	29°  48'56		max. Earth dist.	2614 Jul 23 22:24	3°  41'13	1.33380 AU
	2613 Aug 31 16:06	0° 		evening rise	2614 Jul 29 04:26	14°  33'50	
evening max el	2613 Sep 18 12:25	22°  28'42	26°58'22		2614 Aug 06 08:14	0° 	
retrograde	2613 Oct 01 17:04	29°  45'09		desc. node	2614 Aug 18 10:11	19°  21'19	
evening set	2613 Oct 08 11:55	27°  02'39			2614 Aug 26 14:01	0° 	
min. Earth dist.	2613 Oct 12 10:25	23°  08'58	0.65485 AU	evening max el	2614 Aug 31 23:59	5°  46'05	27°24'05
inferior conj	2613 Oct 14 09:13	20°  54'33	-2°04'47	retrograde	2614 Sep 14 13:35	13°  03'42	
minimum elong	2613 Oct 14 12:37	20°  44'48	2°03'27	evening set	2614 Sep 21 16:48	10°  23'15	
morning rise	2613 Oct 20 14:04	15°  16'35		min. Earth dist.	2614 Sep 25 09:32	7°  04'11	0.64020 AU
asc. node	2613 Oct 20 14:52	15°  15'36		inferior conj	2614 Sep 27 20:58	4°  29'23	-3°03'20
direct	2613 Oct 23 08:43	14°  34'29		minimum elong	2614 Sep 28 01:49	4°  16'44	3°01'43
morning max el	2613 Oct 29 21:25	18°  06'19	18°13'58		2614 Oct 02 20:52	30° 	
	2613 Nov 07 17:42	0° 		morning rise	2614 Oct 04 11:59	29°  07'18	
morning set	2613 Nov 17 15:52	16°  02'50		direct	2614 Oct 07 00:59	28°  34'59	
	2613 Nov 26 06:35	0° 		asc. node	2614 Oct 07 11:53	28°  36'02	
desc. node	2613 Nov 27 12:27	1°  59'28			2614 Oct 11 04:08	0° 	
				morning max el	2614 Oct 13 13:38	2°  00'34	17°54'21
superior conj	2613 Dec 02 12:32	9°  56'11	-0°33'19	morning set	2614 Oct 30 11:47	27°  53'20	
minimum elong	2613 Dec 02 08:15	9°  39'18	0°32'45		2614 Oct 31 17:23	0° 	
max. Earth dist.	2613 Dec 05 00:26	13°  52'11	1.45115 AU				
	2613 Dec 15 07:57	0° 		superior conj	2614 Nov 12 07:19	19°  22'07	0°14'13
evening rise	2613 Dec 18 20:49	5°  30'46		minimum elong	2614 Nov 12 08:54	19°  28'33	0°14'00
greatest brilliancy	2613 Dec 30 18:26	23°  56'05	-0.7m	behind sun begin	2614 Nov 12 03:51	19°  07'59	
	2614 Jan 03 20:10	0° 		behind sun end	2614 Nov 12 13:57	19°  49'05	
evening max el	2614 Jan 12 00:10	10°  29'46	19°28'11	desc. node	2614 Nov 14 09:28	22°  45'23	
asc. node	2614 Jan 16 14:08	14°  01'31		max. Earth dist.	2614 Nov 17 18:59	28°  11'47	1.44433 AU
retrograde	2614 Jan 19 05:10	14°  38'58			2614 Nov 18 22:15	0° 	
evening set	2614 Jan 22 16:51	13°  27'48		evening rise	2614 Nov 28 07:45	14°  39'18	
inferior conj	2614 Jan 28 05:02	7°  33'10	3°12'17		2614 Dec 08 10:12	0° 	
minimum elong	2614 Jan 28 02:42	7°  40'47	3°11'48	evening max el	2614 Dec 26 02:57	23°  59'53	20°27'24
min. Earth dist.	2614 Jan 29 10:20	5°  57'41	0.66448 AU	retrograde	2615 Jan 03 03:09	28°  42'58	
morning rise	2614 Feb 02 12:19	1°  20'26		asc. node	2615 Jan 03 11:09	28°  42'21	
	2614 Feb 04 05:45	30° 		evening set	2615 Jan 06 23:27	27°  17'27	
direct	2614 Feb 08 17:32	28°  34'50		inferior conj	2615 Jan 12 08:50	21°  30'58	2°40'53
	2614 Feb 13 16:35	0° 		minimum elong	2615 Jan 12 06:15	21°  31'45	2°40'09
morning max el	2614 Feb 21 03:41	5°  57'37	25°54'12	min. Earth dist.	2615 Jan 13 00:46	20°  31'54	0.67302 AU
desc. node	2614 Feb 23 11:40	8°  25'44		morning rise	2615 Jan 17 12:53	14°  35'36	
	2614 Mar 11 17:21	0° 		direct	2615 Jan 23 04:05	12°  32'37	
morning set	2614 Mar 29 09:12	29°  30'01		morning max el	2615 Feb 03 12:14	19°  31'24	24°31'26
	2614 Mar 29 15:42	0° 		desc. node	2615 Feb 10 08:42	27°  02'42	
max. Earth dist.	2614 Apr 02 05:53	6°  46'24	1.35616 AU		2615 Feb 12 16:02	0° 	
					2615 Mar 04 20:33	0° 	
superior conj	2614 Apr 07 15:08	17°  41'24	-1°07'14	morning set	2615 Mar 11 11:49	11°  41'05	

max. Earth dist.	2615 Mar 15 03:46	17° H 48'45	1.37548 AU		2616 Feb 25 09:19	0° H	
superior conj	2615 Mar 21 22:50	0° Y 34'20	-1°33'04	superior conj	2616 Mar 03 15:31	12° H 57'50	-1°53'42
minimum elong	2615 Mar 22 03:12	0° Y 55'24	1°32'29	minimum elong	2616 Mar 03 19:33	13° H 16'22	1°53'23
	2615 Mar 21 15:44	0° Y			2616 Mar 12 15:54	0° Y	
evening rise	2615 Mar 30 13:56	17° Y 38'08		evening rise	2616 Mar 13 06:06	1° Y 08'02	
asc. node	2615 Apr 01 10:26	21° Y 17'52		asc. node	2616 Mar 18 07:28	10° Y 39'52	
	2615 Apr 06 00:40	0° Z		evening max el	2616 Mar 29 11:11	27° Y 12'01	18°31'45
evening max el	2615 Apr 16 08:17	14° Z 47'39	19°12'54		2616 Apr 02 06:01	0° Z	
retrograde	2615 Apr 25 07:27	19° Z 08'36		retrograde	2616 Apr 06 02:55	0° Z 57'44	
evening set	2615 Apr 27 09:29	18° Z 55'30		evening set	2616 Apr 08 10:59	0° Z 37'52	
inferior conj	2615 May 05 17:39	14° Z 45'09	1°01'20		2616 Apr 10 04:00	30° R Y	
minimum elong	2615 May 05 20:04	14° Z 41'05	1°00'30	inferior conj	2616 Apr 15 23:36	26° Y 08'52	2°25'04
min. Earth dist.	2615 May 08 15:03	12° Z 48'58	0.56332 AU	minimum elong	2616 Apr 16 03:30	26° Y 01'09	2°24'02
desc. node	2615 May 09 07:52	12° Z 22'08		min. Earth dist.	2616 Apr 19 09:44	23° Y 28'31	0.58156 AU
morning rise	2615 May 14 03:38	9° Z 53'35		morning rise	2616 Apr 23 16:57	20° Y 44'54	
direct	2615 May 19 01:01	8° Z 58'13		desc. node	2616 Apr 25 04:55	20° Y 05'44	
morning max el	2615 Jun 02 06:21	16° Z 14'24	25°23'17	direct	2616 Apr 29 14:28	19° Y 15'55	
	2615 Jun 13 09:51	0° II		morning max el	2616 May 13 23:45	26° Y 55'40	26°45'00
asc. node	2615 Jun 28 09:41	27° II 06'55			2616 May 16 22:16	0° Z	
morning set	2615 Jun 29 03:57	28° II 42'56			2616 Jun 05 19:20	0° II	
	2615 Jun 29 18:29	0° E		morning set	2616 Jun 12 14:12	13° II 32'24	
				asc. node	2616 Jun 14 06:43	17° II 07'25	
superior conj	2615 Jul 06 03:05	13° E 49'22	1°13'25				
minimum elong	2615 Jul 06 00:43	13° E 36'20	1°13'03	superior conj	2616 Jun 19 14:48	28° II 46'22	0°53'41
max. Earth dist.	2615 Jul 07 05:41	16° E 14'43	1.32581 AU	minimum elong	2616 Jun 19 12:44	28° II 34'58	0°53'17
evening rise	2615 Jul 13 05:29	29° E 00'53		max. Earth dist.	2616 Jun 19 16:58	28° II 58'22	1.32179 AU
	2615 Jul 13 16:58	0° O			2616 Jun 20 04:10	0° E	
	2615 Jul 30 11:57	0° O		evening rise	2616 Jun 26 12:16	13° E 43'15	
desc. node	2615 Aug 05 07:11	8° O 13'13			2616 Jul 04 18:25	0° O	
evening max el	2615 Aug 14 08:24	18° O 33'15	27°19'29	desc. node	2616 Jul 22 04:12	26° O 06'58	
retrograde	2615 Aug 28 03:44	25° O 48'57			2616 Jul 25 19:26	0° O	
evening set	2615 Sep 04 08:15	23° O 22'35		evening max el	2616 Jul 26 11:15	0° O 38'11	26°41'47
min. Earth dist.	2615 Sep 07 22:26	20° O 31'17	0.62229 AU	retrograde	2616 Aug 09 10:17	7° O 50'41	
inferior conj	2615 Sep 10 21:34	17° O 46'18	-3°57'19	evening set	2616 Aug 16 05:39	5° O 52'04	
minimum elong	2615 Sep 11 03:07	17° O 33'25	3°55'54	min. Earth dist.	2616 Aug 20 01:06	3° O 15'13	0.60211 AU
morning rise	2615 Sep 17 23:33	12° O 43'21		inferior conj	2616 Aug 23 07:34	0° O 35'44	-4°40'17
direct	2615 Sep 20 09:31	12° O 17'40		minimum elong	2616 Aug 23 12:07	0° O 26'28	4°39'35
asc. node	2615 Sep 24 08:54	13° O 29'25			2616 Aug 24 01:10	30° R O	
morning max el	2615 Sep 27 05:19	15° O 45'26	17°52'45	morning rise	2616 Aug 30 20:34	25° O 54'30	
	2615 Oct 07 03:45	0° U		direct	2616 Sep 02 06:20	25° O 32'47	
morning set	2615 Oct 13 05:05	10° U 45'14		morning max el	2616 Sep 09 17:14	29° O 11'40	18°10'17
				asc. node	2616 Sep 10 05:57	29° O 43'20	
superior conj	2615 Oct 24 04:39	0° M 07'04	0°53'41		2616 Sep 10 12:21	0° O	
minimum elong	2615 Oct 24 08:56	0° M 25'21	0°53'07	morning set	2616 Sep 25 13:45	24° O 20'47	
	2615 Oct 24 02:59	0° M			2616 Sep 28 13:52	0° U	
max. Earth dist.	2615 Oct 31 09:28	12° M 07'37	1.43109 AU				
desc. node	2615 Nov 01 06:31	13° M 33'06		superior conj	2616 Oct 05 03:27	12° U 06'14	1°21'34
evening rise	2615 Nov 07 18:33	23° M 53'15		minimum elong	2616 Oct 05 07:28	12° U 24'20	1°21'08
	2615 Nov 11 17:27	0° J		max. Earth dist.	2616 Oct 12 18:25	25° U 24'56	1.41313 AU
	2615 Dec 02 14:13	0° Z			2616 Oct 15 12:16	0° M	
evening max el	2615 Dec 09 00:08	7° Z 31'10	21°38'23	evening rise	2616 Oct 17 20:52	3° M 51'31	
retrograde	2615 Dec 18 00:26	12° Z 52'56		desc. node	2616 Oct 18 03:33	4° M 18'34	
asc. node	2615 Dec 21 08:10	11° Z 52'28			2616 Nov 04 01:15	0° J	
evening set	2615 Dec 22 07:08	11° Z 11'49		evening max el	2616 Nov 20 16:29	21° J 05'01	22°56'46
inferior conj	2615 Dec 27 15:31	4° Z 54'52	2°01'22	retrograde	2616 Nov 30 19:22	27° J 05'18	
minimum elong	2615 Dec 27 13:11	5° Z 02'58	2°00'33	evening set	2616 Dec 05 14:16	25° J 07'44	
min. Earth dist.	2615 Dec 27 19:34	4° Z 40'53	0.67772 AU	asc. node	2616 Dec 07 05:12	23° J 33'39	
	2615 Dec 31 11:29	30° R J		inferior conj	2616 Dec 10 23:09	18° J 45'09	1°15'14
morning rise	2616 Jan 01 19:05	28° J 42'37		minimum elong	2616 Dec 10 21:30	18° J 50'49	1°14'35
direct	2616 Jan 06 19:19	26° J 33'31		min. Earth dist.	2616 Dec 10 16:17	19° J 08'52	0.67880 AU
	2616 Jan 14 03:27	0° Z		morning rise	2616 Dec 16 04:38	12° J 36'00	
morning max el	2616 Jan 16 21:38	2° Z 33'08	23°02'40	direct	2616 Dec 20 14:16	10° J 49'42	
desc. node	2616 Jan 28 05:45	16° Z 21'51		morning max el	2616 Dec 29 11:16	16° J 01'13	21°37'09
	2616 Feb 06 18:00	0° Z			2617 Jan 09 18:00	0° Z	
morning set	2616 Feb 20 12:57	21° Z 45'59		desc. node	2617 Jan 14 02:49	6° Z 11'19	
max. Earth dist.	2616 Feb 24 22:36	29° Z 13'39	1.39697 AU		2617 Jan 29 19:34	0° Z	

morning set	2617 Jan 30 09:01	0° \approx 53'22		max. Earth dist.	2618 Jan 19 05:45	24° \approx 34'16	1.43534 AU
max. Earth dist.	2617 Feb 05 22:06	11° \approx 30'15	1.41788 AU		2618 Jan 22 11:59	0° \approx	
superior conj	2617 Feb 13 12:14	24° \approx 23'25	-2°05'00	superior conj	2618 Jan 25 07:59	4° \approx 39'18	-2°01'58
minimum elong	2617 Feb 13 13:39	24° \approx 29'37	2°05'00	minimum elong	2618 Jan 25 04:14	4° \approx 23'47	2°01'50
	2617 Feb 16 16:42	0° \approx		evening rise	2618 Feb 06 21:08	26° \approx 02'58	
evening rise	2617 Feb 24 09:56	13° \approx 59'27			2618 Feb 09 03:26	0° \approx	
asc. node	2617 Mar 05 04:31	29° \approx 36'30		asc. node	2618 Feb 20 01:35	17° \approx 58'58	
	2617 Mar 05 10:13	0° \approx		evening max el	2618 Feb 24 08:43	23° \approx 15'12	18°08'46
evening max el	2617 Mar 12 20:27	10° \approx 04'31	18°10'33	retrograde	2618 Mar 02 20:03	26° \approx 38'42	
retrograde	2617 Mar 19 16:25	13° \approx 31'29		evening set	2618 Mar 05 15:43	25° \approx 58'59	
evening set	2617 Mar 22 06:38	13° \approx 02'19		inferior conj	2618 Mar 11 22:16	20° \approx 48'28	3°38'19
inferior conj	2617 Mar 29 02:17	8° \approx 12'23	3°15'38	minimum elong	2618 Mar 11 23:13	20° \approx 45'58	3°38'16
minimum elong	2617 Mar 29 05:09	8° \approx 05'50	3°15'11	min. Earth dist.	2618 Mar 14 18:31	17° \approx 51'19	0.62415 AU
min. Earth dist.	2617 Apr 01 10:06	5° \approx 11'11	0.60296 AU	morning rise	2618 Mar 18 05:31	14° \approx 48'06	
morning rise	2617 Apr 05 01:30	2° \approx 25'46		direct	2618 Mar 25 03:32	12° \approx 14'29	
direct	2617 Apr 11 16:16	0° \approx 20'39		desc. node	2618 Mar 29 23:01	13° \approx 20'06	
desc. node	2617 Apr 12 01:58	0° \approx 21'06		morning max el	2618 Apr 08 04:25	20° \approx 10'43	27°50'07
morning max el	2617 Apr 25 23:08	8° \approx 12'22	27°36'00		2618 Apr 16 14:42	0° \approx	
	2617 May 12 13:28	0° \approx			2618 May 05 12:31	0° \approx	
morning set	2617 May 27 21:15	28° \approx 10'08		morning set	2618 May 11 23:00	12° \approx 28'58	
	2617 May 28 18:20	0° \approx		max. Earth dist.	2618 May 17 13:06	24° \approx 10'29	1.32572 AU
asc. node	2617 Jun 01 03:48	7° \approx 14'33					
max. Earth dist.	2617 Jun 03 04:45	11° \approx 41'28	1.32174 AU	superior conj	2618 May 19 11:39	28° \approx 22'02	0°04'45
				minimum elong	2618 May 19 11:26	28° \approx 20'48	0°04'42
superior conj	2617 Jun 04 02:14	13° \approx 39'22	0°30'33	behind sun begin	2618 May 19 06:27	27° \approx 53'49	
minimum elong	2617 Jun 04 00:55	13° \approx 32'04	0°30'16	behind sun end	2618 May 19 16:24	28° \approx 47'50	
evening rise	2617 Jun 10 22:34	28° \approx 33'35		asc. node	2618 May 19 00:51	27° \approx 23'27	
	2617 Jun 11 14:55	0° \approx			2618 May 20 05:40	0° \approx	
	2617 Jun 28 09:13	0° \approx		evening rise	2618 May 26 10:21	13° \approx 24'35	
evening max el	2617 Jul 08 07:05	11° \approx 56'16	25°33'12		2618 Jun 03 19:06	0° \approx	
desc. node	2617 Jul 09 01:13	12° \approx 38'35		evening max el	2618 Jun 19 21:15	22° \approx 35'28	24°03'10
retrograde	2617 Jul 22 07:10	19° \approx 03'50		desc. node	2618 Jun 25 22:14	27° \approx 16'07	
evening set	2617 Jul 28 04:23	17° \approx 04'24		retrograde	2618 Jul 03 16:05	29° \approx 31'44	
min. Earth dist.	2617 Aug 01 19:11	15° \approx 02'38	0.58164 AU	evening set	2618 Jul 08 03:49	28° \approx 47'08	
inferior conj	2617 Aug 04 23:29	12° \approx 048'15	-5°01'45	min. Earth dist.	2618 Jul 14 07:52	25° \approx 47'10	0.56377 AU
minimum elong	2617 Aug 05 00:25	12° \approx 046'37	5°01'43	inferior conj	2618 Jul 16 19:09	24° \approx 15'49	-4°47'27
morning rise	2617 Aug 12 22:47	8° \approx 029'34		minimum elong	2618 Jul 16 14:30	24° \approx 23'02	4°46'54
direct	2617 Aug 15 11:13	8° \approx 09'47		morning rise	2618 Jul 25 03:48	20° \approx 16'38	
morning max el	2617 Aug 23 22:08	12° \approx 10'09	18°48'24	direct	2618 Jul 27 20:58	19° \approx 57'26	
asc. node	2617 Aug 28 03:01	17° \approx 02'54		morning max el	2618 Aug 06 17:07	24° \approx 31'28	19°48'07
	2617 Sep 04 23:27	0° \approx			2618 Aug 11 11:50	0° \approx	
morning set	2617 Sep 09 09:16	8° \approx 27'52		asc. node	2618 Aug 15 00:05	5° \approx 13'40	
				morning set	2618 Aug 24 12:15	22° \approx 05'15	
superior conj	2617 Sep 17 22:38	25° \approx 05'39	1°38'06		2618 Aug 27 23:32	0° \approx	
minimum elong	2617 Sep 18 01:02	25° \approx 17'02	1°37'56				
	2617 Sep 20 13:23	0° \approx		superior conj	2618 Sep 01 08:50	8° \approx 50'18	1°44'54
max. Earth dist.	2617 Sep 24 23:25	8° \approx 01'00	1.39276 AU	minimum elong	2618 Sep 01 09:25	8° \approx 53'12	1°44'53
evening rise	2617 Sep 28 22:30	14° \approx 54'26		max. Earth dist.	2618 Sep 07 04:12	20° \approx 04'20	1.37245 AU
desc. node	2617 Oct 05 00:33	24° \approx 58'15		evening rise	2618 Sep 10 23:07	27° \approx 01'50	
	2617 Oct 08 04:56	0° \approx			2618 Sep 12 15:10	0° \approx	
	2617 Oct 29 21:13	0° \approx		desc. node	2618 Sep 21 21:33	15° \approx 27'56	
evening max el	2617 Nov 03 05:47	4° \approx 42'38	24°16'33		2618 Oct 01 15:40	0° \approx	
retrograde	2617 Nov 14 10:38	11° \approx 16'19		evening max el	2618 Oct 16 17:55	18° \approx 23'24	25°30'44
evening set	2617 Nov 19 19:12	9° \approx 02'08		retrograde	2618 Oct 28 21:27	25° \approx 22'00	
asc. node	2617 Nov 24 02:16	4° \approx 10'44		evening set	2618 Nov 03 20:15	22° \approx 52'52	
min. Earth dist.	2617 Nov 24 12:26	3° \approx 36'47	0.67651 AU	min. Earth dist.	2618 Nov 08 05:41	18° \approx 02'29	0.67085 AU
inferior conj	2617 Nov 25 05:55	2° \approx 37'59	0°23'41	inferior conj	2618 Nov 09 10:04	16° \approx 31'21	-0°32'02
minimum elong	2617 Nov 25 05:21	2° \approx 39'55	0°23'26	minimum elong	2618 Nov 09 10:53	16° \approx 28'42	0°31'41
	2617 Nov 27 06:16	30° \approx 33'11		asc. node	2618 Nov 10 23:18	14° \approx 34'03	
morning rise	2617 Nov 30 15:31	26° \approx 34'16		morning rise	2618 Nov 15 01:47	10° \approx 35'34	
direct	2617 Dec 04 11:46	25° \approx 09'56		direct	2618 Nov 18 10:20	9° \approx 30'37	
morning max el	2617 Dec 12 08:08	29° \approx 40'01	20°21'26	morning max el	2618 Nov 25 12:55	13° \approx 29'53	19°19'27
	2617 Dec 12 15:59	0° \approx			2618 Dec 07 22:02	0° \approx	
desc. node	2617 Dec 31 23:50	26° \approx 22'06		greatest brilliancy	2618 Dec 09 06:47	2° \approx 03'34	-0.7m
	2618 Jan 03 09:28	0° \approx		desc. node	2618 Dec 18 20:52	16° \approx 48'28	
morning set	2618 Jan 09 07:38	9° \approx 05'00		morning set	2618 Dec 19 07:50	17° \approx 30'59	

	2618 Dec 27 08:13	0°♄				2619 Dec 01 01:44	0°♄	
max. Earth dist.	2619 Jan 01 20:15	8°♄38'40	1.44708 AU	desc. node		2619 Dec 05 17:52	7°♄25'21	
superior conj	2619 Jan 05 02:04	13°♄47'05	-1°40'16	superior conj		2619 Dec 15 04:31	22°♄17'52	-1°00'47
minimum elong	2619 Jan 04 17:33	13°♄13'11	1°39'31	minimum elong		2619 Dec 14 21:02	21°♄48'28	0°59'52
	2619 Jan 15 02:55	0°♄		max. Earth dist.		2619 Dec 15 14:23	22°♄56'36	1.45179 AU
evening rise	2619 Jan 19 11:31	7°♄11'43				2619 Dec 20 02:17	0°♄	
	2619 Feb 02 14:46	0°♄		evening rise		2619 Dec 31 02:31	17°♄22'56	
asc. node	2619 Feb 06 22:37	5°♄37'00				2620 Jan 08 01:19	0°♄	
evening max el	2619 Feb 07 21:06	6°♄36'50	18°25'46	greatest brilliancy		2620 Jan 09 02:23	1°♄38'37	-0.8m
retrograde	2619 Feb 14 09:16	10°♄09'59		evening max el		2620 Jan 22 07:08	20°♄04'17	19°00'40
evening set	2619 Feb 17 10:21	9°♄18'55		asc. node		2620 Jan 24 19:38	22°♄17'54	
inferior conj	2619 Feb 23 07:29	3°♄49'29	3°39'55	retrograde		2620 Jan 29 04:08	23°♄57'57	
minimum elong	2619 Feb 23 06:42	3°♄51'43	3°39'52	evening set		2620 Feb 01 11:29	22°♄54'36	
min. Earth dist.	2619 Feb 25 12:35	1°♄15'39	0.64279 AU	inferior conj		2620 Feb 07 02:13	17°♄08'32	3°25'54
	2619 Feb 26 16:10	30°♄		minimum elong		2620 Feb 07 00:17	17°♄14'38	3°25'36
morning rise	2619 Mar 01 02:26	27°♄41'26		min. Earth dist.		2620 Feb 08 15:58	15°♄09'47	0.65771 AU
direct	2619 Mar 07 22:42	24°♄52'22		morning rise		2620 Feb 12 12:44	10°♄56'35	
desc. node	2619 Mar 16 20:04	28°♄34'24		direct		2620 Feb 19 00:41	8°♄06'03	
	2619 Mar 18 14:27	0°♄		desc. node		2620 Mar 02 17:06	15°♄28'58	
morning max el	2619 Mar 21 13:29	2°♄45'36	27°27'53	morning max el		2620 Mar 02 23:27	15°♄44'52	26°35'02
	2619 Apr 10 22:22	0°♄				2620 Mar 14 17:40	0°♄	
morning set	2619 Apr 25 16:53	26°♄21'01				2620 Apr 02 17:45	0°♄	
	2619 Apr 27 12:56	0°♄		morning set		2620 Apr 07 23:25	9°♄36'04	
max. Earth dist.	2619 Apr 30 14:02	6°♄13'37	1.33394 AU	max. Earth dist.		2620 Apr 12 04:05	17°♄43'35	1.34668 AU
superior conj	2619 May 03 17:09	12°♄48'34	-0°22'55	superior conj		2620 Apr 16 16:33	26°♄52'42	-0°51'15
minimum elong	2619 May 03 18:18	12°♄54'42	0°22'40	minimum elong		2620 Apr 16 19:11	27°♄06'18	0°50'44
asc. node	2619 May 05 21:54	17°♄30'21				2620 Apr 18 04:41	0°♄	
evening rise	2619 May 10 21:46	28°♄10'05		asc. node		2620 Apr 21 18:56	7°♄31'18	
	2619 May 11 18:44	0°♄		evening rise		2620 Apr 24 06:53	12°♄43'58	
	2619 May 29 15:29	0°♄				2620 May 03 06:08	0°♄	
evening max el	2619 Jun 01 11:57	3°♄02'39	22°26'43	evening max el		2620 May 13 11:00	13°♄50'55	20°58'08
desc. node	2619 Jun 12 19:16	9°♄24'06		retrograde		2620 May 25 02:25	19°♄31'44	
retrograde	2619 Jun 14 12:59	9°♄31'02		evening set		2620 May 27 06:25	19°♄20'40	
evening set	2619 Jun 17 14:04	9°♄10'34		desc. node		2620 May 29 16:18	18°♄44'09	
min. Earth dist.	2619 Jun 25 19:01	5°♄37'13	0.55193 AU	inferior conj		2620 Jun 05 14:35	15°♄22'45	-2°00'25
inferior conj	2619 Jun 26 20:53	5°♄00'34	-3°45'23	minimum elong		2620 Jun 05 08:59	15°♄30'42	1°58'27
minimum elong	2619 Jun 26 12:48	5°♄12'02	3°43'17	min. Earth dist.		2620 Jun 06 07:15	14°♄59'08	0.54894 AU
morning rise	2619 Jul 05 13:37	1°♄09'21		morning rise		2620 Jun 14 11:24	11°♄20'01	
direct	2619 Jul 08 13:11	0°♄49'09		direct		2620 Jun 17 22:37	10°♄54'04	
morning max el	2619 Jul 20 00:38	6°♄09'22	21°08'29	morning max el		2620 Jun 30 21:48	17°♄06'13	22°44'46
asc. node	2619 Aug 01 21:08	24°♄03'13				2620 Jul 11 04:28	0°♄	
	2619 Aug 05 00:43	0°♄		asc. node		2620 Jul 18 18:10	13°♄22'07	
morning set	2619 Aug 08 20:05	7°♄41'02		morning set		2620 Jul 23 06:45	22°♄33'42	
						2620 Jul 26 18:45	0°♄	
superior conj	2619 Aug 16 05:36	23°♄06'38	1°43'43	superior conj		2620 Jul 30 09:35	7°♄44'37	1°36'02
minimum elong	2619 Aug 16 04:41	23°♄01'57	1°43'42	minimum elong		2620 Jul 30 07:42	7°♄34'33	1°35'53
	2619 Aug 19 14:46	0°♄		max. Earth dist.		2620 Aug 02 08:20	13°♄57'10	1.34014 AU
max. Earth dist.	2619 Aug 20 13:52	1°♄55'10	1.35443 AU	evening rise		2620 Aug 07 04:44	23°♄46'57	
evening rise	2619 Aug 24 18:41	10°♄03'09				2620 Aug 10 10:18	0°♄	
	2619 Sep 05 04:03	0°♄		desc. node		2620 Aug 25 15:35	25°♄31'58	
desc. node	2619 Sep 08 18:34	5°♄41'35				2620 Aug 28 18:12	0°♄	
	2619 Sep 27 05:33	0°♄		evening max el		2620 Sep 10 18:13	15°♄30'55	27°12'41
evening max el	2619 Sep 29 06:03	2°♄02'10	26°31'58	retrograde		2620 Sep 24 03:33	22°♄49'25	
retrograde	2619 Oct 12 03:16	9°♄15'36		evening set		2620 Oct 01 02:28	20°♄06'22	
evening set	2619 Oct 18 15:29	6°♄35'44		min. Earth dist.		2620 Oct 04 22:13	16°♄27'48	0.64901 AU
min. Earth dist.	2619 Oct 22 17:40	2°♄21'30	0.66169 AU	inferior conj		2620 Oct 07 02:26	14°♄03'32	-2°29'54
inferior conj	2619 Oct 24 09:37	0°♄21'18	-1°30'33	minimum elong		2620 Oct 07 06:29	13°♄52'17	2°28'23
minimum elong	2619 Oct 24 12:04	0°♄13'58	1°29'32	morning rise		2620 Oct 13 11:28	8°♄31'57	
	2619 Oct 24 16:42	30°♄		asc. node		2620 Oct 14 17:22	8°♄05'14	
asc. node	2619 Oct 28 20:20	25°♄39'05		direct		2620 Oct 16 03:17	7°♄54'35	
morning rise	2619 Oct 30 09:15	24°♄36'09		morning max el		2620 Oct 22 15:19	11°♄23'06	18°03'27
direct	2619 Nov 02 08:13	23°♄46'57				2620 Nov 04 12:34	0°♄	
morning max el	2619 Nov 09 00:08	27°♄26'14	18°33'07	morning set		2620 Nov 09 11:55	8°♄16'49	
	2619 Nov 11 07:23	0°♄		desc. node		2620 Nov 21 14:52	28°♄09'04	
morning set	2619 Nov 29 07:12	27°♄10'21						

	2620 Nov 22 18:34	0°♊		inferior conj	2621 Sep 20 09:50	27°♎31'49	-3°27'09
				minimum elong	2621 Sep 20 15:07	27°♎18'38	3°25'32
superior conj	2620 Nov 23 11:53	1°♊09'11 -0°12'41		morning rise	2621 Sep 27 05:25	22°♎17'09	
minimum elong	2620 Nov 23 10:19	1°♊02'55 0°12'27		direct	2621 Sep 29 16:45	21°♎48'01	
behind sun begin	2620 Nov 23 03:26	0°♊35'24		asc. node	2621 Oct 01 14:23	22°♎05'39	
behind sun end	2620 Nov 23 17:12	1°♊30'24		morning max el	2621 Oct 06 07:36	25°♎13'50	17°51'22
max. Earth dist.	2620 Nov 27 09:10	7°♊19'07 1.44911 AU			2621 Oct 10 06:31	0°♎	
evening rise	2620 Dec 09 20:47	26°♊46'37		morning set	2621 Oct 22 17:46	20°♎36'03	
	2620 Dec 11 22:54	0°♋			2621 Oct 28 03:34	0°♎	
greatest brilliancy	2620 Dec 23 13:22	17°♋39'59 -0.7m					
	2621 Jan 01 09:57	0°♋		superior conj	2621 Nov 03 17:28	11°♎07'23	0°32'16
evening max el	2621 Jan 04 12:59	3°♋34'23 19°51'44		minimum elong	2621 Nov 03 20:38	11°♎20'34	0°31'50
asc. node	2621 Jan 10 16:39	7°♋46'58		desc. node	2621 Nov 08 11:55	18°♎56'16	
retrograde	2621 Jan 12 01:37	7°♋57'20		max. Earth dist.	2621 Nov 10 02:12	21°♎30'31	1.43940 AU
evening set	2621 Jan 15 16:40	6°♋40'27			2621 Nov 15 10:48	0°♊	
inferior conj	2621 Jan 21 03:26	0°♋40'09 3°00'04		evening rise	2621 Nov 19 05:34	5°♊52'39	
minimum elong	2621 Jan 21 00:56	0°♋48'29 2°59'28			2621 Dec 05 08:13	0°♋	
	2621 Jan 21 15:29	30°♋3		evening max el	2621 Dec 18 13:33	17°♋06'06	20°56'27
min. Earth dist.	2621 Jan 22 02:57	29°♋21'52 0.66863 AU		retrograde	2621 Dec 26 23:25	22°♋04'51	
morning rise	2621 Jan 26 08:58	24°♋26'47		asc. node	2621 Dec 28 13:40	21°♋50'46	
direct	2621 Feb 01 08:32	21°♋46'36		evening set	2621 Dec 30 23:57	20°♋32'53	
morning max el	2621 Feb 13 08:18	28°♋55'51 25°20'14		inferior conj	2622 Jan 05 08:44	14°♋21'15	2°25'01
	2621 Feb 14 09:09	0°♌		minimum elong	2622 Jan 05 06:12	14°♋29'58	2°24'14
desc. node	2621 Feb 17 14:07	3°♌34'54		min. Earth dist.	2622 Jan 05 19:30	13°♋44'16	0.67552 AU
	2621 Mar 08 12:56	0°♍		morning rise	2622 Jan 10 12:16	8°♋08'17	
morning set	2621 Mar 21 13:52	21°♍59'15		direct	2622 Jan 15 21:16	5°♋46'32	
max. Earth dist.	2621 Mar 25 06:23	28°♍46'47 1.36393 AU		morning max el	2622 Jan 26 16:41	12°♋13'02	23°53'48
	2621 Mar 25 21:57	0°♎		desc. node	2622 Feb 04 11:09	22°♋31'56	
					2622 Feb 09 23:06	0°♌	
superior conj	2621 Mar 31 06:59	10°♎25'28 -1°18'38			2622 Mar 01 08:30	0°♍	
minimum elong	2621 Mar 31 10:54	10°♎44'55 1°18'01		morning set	2622 Mar 03 06:24	3°♍15'08	
evening rise	2621 Apr 08 11:31	26°♎58'37		max. Earth dist.	2622 Mar 07 02:02	9°♍55'05	1.38458 AU
asc. node	2621 Apr 08 15:58	27°♎21'04					
	2621 Apr 09 23:36	0°♏		superior conj	2622 Mar 14 08:57	23°♍18'10	-1°42'39
evening max el	2621 Apr 25 21:50	25°♏16'33 19°45'45		minimum elong	2622 Mar 14 13:22	23°♍39'08	1°42'11
	2621 May 04 15:23	0°♐			2622 Mar 17 20:44	0°♎	
retrograde	2621 May 05 19:18	0°♐03'49		evening rise	2622 Mar 23 09:09	10°♎47'35	
	2621 May 06 23:36	30°♏3		asc. node	2622 Mar 26 13:00	16°♎55'09	
evening set	2621 May 07 19:23	29°♏52'55			2622 Apr 03 00:01	0°♏	
inferior conj	2621 May 16 14:31	25°♏51'07 -0°00'52		evening max el	2622 Apr 08 19:40	7°♏21'26	18°52'52
minimum elong	2621 May 16 14:29	25°♏51'11 0°00'52		retrograde	2622 Apr 17 03:47	11°♏25'04	
transit middle	2621 May 16 14:29	25°♏51'11 0°00'52		evening set	2622 Apr 19 08:27	11°♏09'19	
transit begin	2621 May 16 10:32	25°♏57'17		inferior conj	2622 Apr 27 08:09	6°♏51'24	1°40'58
transit end	2621 May 16 18:25	25°♏45'03		minimum elong	2622 Apr 27 11:36	6°♏45'11	1°39'52
desc. node	2621 May 16 13:20	25°♏52'57		min. Earth dist.	2622 Apr 30 13:04	4°♏34'17	0.57057 AU
min. Earth dist.	2621 May 18 21:00	24°♏26'55 0.55566 AU		desc. node	2622 May 03 10:21	2°♏45'49	
morning rise	2621 May 25 07:11	21°♏19'49		morning rise	2622 May 05 11:39	1°♏45'33	
direct	2621 May 29 14:44	20°♏38'30		direct	2622 May 10 19:57	0°♏36'53	
morning max el	2621 Jun 12 12:40	27°♏35'12 24°27'10		morning max el	2622 May 25 03:35	8°♏03'48	26°01'02
	2621 Jun 14 21:40	0°♐			2622 Jun 10 12:28	0°♐	
	2621 Jul 04 03:16	0°♑		morning set	2622 Jun 22 05:50	22°♐22'29	
asc. node	2621 Jul 05 15:12	3°♑01'52		asc. node	2622 Jun 22 12:15	22°♐56'27	
morning set	2621 Jul 07 18:32	7°♑29'08			2622 Jun 25 18:58	0°♑	
superior conj	2621 Jul 14 18:10	22°♑35'05 1°23'01		superior conj	2622 Jun 29 05:15	7°♑31'24	1°05'30
minimum elong	2621 Jul 14 15:49	22°♑22'19 1°22'42		minimum elong	2622 Jun 29 02:57	7°♑18'45	1°05'06
max. Earth dist.	2621 Jul 16 11:37	26°♑19'24 1.32992 AU		max. Earth dist.	2622 Jun 29 21:12	8°♑59'02	1.32369 AU
	2621 Jul 18 04:51	0°♒		evening rise	2622 Jul 06 05:05	22°♑35'24	
evening rise	2621 Jul 22 01:15	8°♒00'52			2622 Jul 09 20:44	0°♒	
	2621 Aug 02 21:06	0°♓			2622 Jul 27 20:52	0°♓	
desc. node	2621 Aug 12 12:38	14°♓48'46		desc. node	2622 Jul 30 09:39	3°♓18'08	
evening max el	2621 Aug 24 04:54	28°♓37'30 27°26'12		evening max el	2622 Aug 06 11:27	11°♓08'15	27°07'33
	2621 Aug 25 17:05	0°♈		retrograde	2622 Aug 20 08:15	18°♓21'40	
retrograde	2621 Sep 06 21:31	5°♈54'26		evening set	2622 Aug 27 10:26	16°♓05'47	
evening set	2621 Sep 14 02:07	3°♈18'43		min. Earth dist.	2622 Aug 31 01:43	13°♓22'33	0.61390 AU
min. Earth dist.	2621 Sep 17 17:19	0°♈12'18 0.63289 AU		inferior conj	2622 Sep 03 04:39	10°♓38'04	-4°17'28
	2621 Sep 17 22:23	30°♈♎		minimum elong	2622 Sep 03 10:03	10°♓26'12	4°16'18

morning rise	2622 Sep 10 11:20	5° \mathbb{M} 43'51		minimum elong	2623 Aug 16 10:45	23° Ω 06'48	4°52'28
direct	2622 Sep 12 21:00	5° \mathbb{M} 20'00		morning rise	2623 Aug 24 00:55	18° Ω 41'58	
asc. node	2622 Sep 18 11:27	7° \mathbb{M} 34'42		direct	2623 Aug 26 11:37	18° Ω 21'13	
morning max el	2622 Sep 19 22:01	8° \mathbb{M} 51'11	17°57'48	morning max el	2623 Sep 03 07:25	22° Ω 07'24	18°23'59
	2622 Oct 03 16:21	0° Ω		asc. node	2623 Sep 05 08:32	24° Ω 18'50	
morning set	2622 Oct 05 18:15	3° Ω 48'21			2623 Sep 09 11:39	0° \mathbb{M}	
				morning set	2623 Sep 19 08:02	17° \mathbb{M} 39'01	
					2623 Sep 25 19:29	0° Ω	
superior conj	2622 Oct 16 02:04	22° Ω 24'53	1°06'59	superior conj	2623 Sep 28 10:19	4° Ω 52'25	1°29'52
minimum elong	2622 Oct 16 06:30	22° Ω 44'16	1°06'26	minimum elong	2623 Sep 28 13:44	5° Ω 08'08	1°29'34
	2622 Oct 20 11:59	0° \mathbb{M}		max. Earth dist.	2623 Oct 05 22:10	18° Ω 14'12	1.40457 AU
max. Earth dist.	2622 Oct 23 15:00	5° \mathbb{M} 13'30	1.42389 AU	evening rise	2623 Oct 10 09:14	25° Ω 46'06	
desc. node	2622 Oct 26 08:56	9° \mathbb{M} 43'15			2623 Oct 12 23:19	0° \mathbb{M}	
evening rise	2622 Oct 29 21:23	15° \mathbb{M} 21'25		desc. node	2623 Oct 13 05:59	0° \mathbb{M} 26'57	
	2622 Nov 08 09:53	0° \mathbb{M}			2623 Nov 02 03:54	0° \mathbb{M}	
	2622 Nov 30 17:40	0° \mathbb{Z}		evening max el	2623 Nov 13 23:14	14° \mathbb{M} 13'12	23°30'51
evening max el	2622 Dec 01 08:35	0° \mathbb{Z} 38'29	22°11'10	retrograde	2623 Nov 24 13:23	20° \mathbb{M} 28'57	
retrograde	2622 Dec 10 19:49	6° \mathbb{Z} 16'26		evening set	2623 Nov 29 14:01	18° \mathbb{M} 23'58	
evening set	2622 Dec 15 07:37	4° \mathbb{Z} 28'12		asc. node	2623 Dec 02 07:46	15° \mathbb{M} 31'10	
asc. node	2622 Dec 15 10:43	4° \mathbb{Z} 21'47		inferior conj	2623 Dec 04 23:31	12° \mathbb{M} 00'00	0°53'58
	2622 Dec 19 07:32	30° \mathbb{M}		minimum elong	2623 Dec 04 22:17	12° \mathbb{M} 04'13	0°53'27
inferior conj	2622 Dec 20 16:02	28° \mathbb{M} 08'27	1°42'32	min. Earth dist.	2623 Dec 04 12:02	12° \mathbb{M} 39'18	0.67823 AU
minimum elong	2622 Dec 20 13:57	28° \mathbb{M} 15'42	1°41'46	morning rise	2623 Dec 10 06:30	5° \mathbb{M} 52'59	
min. Earth dist.	2622 Dec 20 15:17	28° \mathbb{M} 11'04	0.67863 AU	direct	2623 Dec 14 10:09	4° \mathbb{M} 16'30	
morning rise	2622 Dec 25 20:09	21° \mathbb{M} 57'35		morning max el	2623 Dec 22 20:06	9° \mathbb{M} 09'24	21°03'30
direct	2622 Dec 30 14:07	19° \mathbb{M} 58'13			2624 Jan 07 19:21	0° \mathbb{Z}	
morning max el	2623 Jan 09 03:29	25° \mathbb{M} 36'28	22°25'33	desc. node	2624 Jan 09 05:13	2° \mathbb{Z} 04'10	
	2623 Jan 13 02:53	0° \mathbb{Z}		morning set	2624 Jan 22 04:15	21° \mathbb{Z} 47'02	
desc. node	2623 Jan 22 08:11	12° \mathbb{Z} 05'01			2624 Jan 27 08:30	0° \mathbb{M}	
	2623 Feb 03 11:50	0° \mathbb{M}		max. Earth dist.	2624 Jan 30 01:35	4° \mathbb{M} 23'31	1.42586 AU
morning set	2623 Feb 11 19:13	13° \mathbb{M} 09'23					
max. Earth dist.	2623 Feb 16 22:46	21° \mathbb{M} 42'29	1.40618 AU	superior conj	2624 Feb 06 04:18	16° \mathbb{M} 14'55	-2°05'48
	2623 Feb 21 18:06	0° \mathbb{M}		minimum elong	2624 Feb 06 03:46	16° \mathbb{M} 12'41	2°05'47
					2624 Feb 14 01:38	0° \mathbb{M}	
superior conj	2623 Feb 24 17:47	5° \mathbb{M} 18'38	-1°59'54	evening rise	2624 Feb 17 17:52	6° \mathbb{M} 34'40	
minimum elong	2623 Feb 24 21:03	5° \mathbb{M} 33'17	1°59'44	asc. node	2624 Feb 28 07:06	24° \mathbb{M} 50'39	
evening rise	2623 Mar 06 20:34	24° \mathbb{M} 02'31			2624 Mar 02 21:29	0° \mathbb{M}	
	2623 Mar 10 01:00	0° \mathbb{Y}		evening max el	2624 Mar 05 12:29	2° \mathbb{Y} 59'31	18°07'24
asc. node	2623 Mar 13 10:03	6° \mathbb{Y} 07'23		retrograde	2624 Mar 12 03:43	6° \mathbb{Y} 23'39	
evening max el	2623 Mar 23 01:38	19° \mathbb{Y} 58'37	18°20'12	evening set	2624 Mar 14 20:10	5° \mathbb{Y} 50'16	
retrograde	2623 Mar 30 07:33	23° \mathbb{Y} 34'38		inferior conj	2624 Mar 21 09:47	0° \mathbb{Y} 51'28	3°28'15
evening set	2623 Apr 01 18:18	23° \mathbb{Y} 11'01		minimum elong	2624 Mar 21 11:51	0° \mathbb{Y} 46'25	3°28'01
inferior conj	2623 Apr 08 23:12	18° \mathbb{Y} 32'45	2°50'20		2624 Mar 22 06:50	30° \mathbb{M}	
minimum elong	2623 Apr 09 02:52	18° \mathbb{Y} 25'01	2°49'32	min. Earth dist.	2624 Mar 24 13:26	27° \mathbb{M} 48'56	0.61212 AU
min. Earth dist.	2623 Apr 12 09:40	15° \mathbb{Y} 40'41	0.59053 AU	morning rise	2624 Mar 28 01:45	24° \mathbb{M} 57'41	
morning rise	2623 Apr 16 08:46	12° \mathbb{Y} 57'50		direct	2624 Apr 03 20:38	22° \mathbb{M} 39'02	
desc. node	2623 Apr 20 07:23	11° \mathbb{Y} 27'42		desc. node	2624 Apr 06 04:26	22° \mathbb{M} 54'17	
direct	2623 Apr 22 14:34	11° \mathbb{Y} 13'32			2624 Apr 17 11:44	0° \mathbb{Y}	
morning max el	2623 May 06 23:32	18° \mathbb{Y} 58'59	27°11'04	morning max el	2624 Apr 18 01:48	0° \mathbb{Y} 34'23	27°46'40
	2623 May 16 06:47	0° \mathbb{B}			2624 May 09 08:51	0° \mathbb{B}	
	2623 Jun 03 03:01	0° \mathbb{I}		morning set	2624 May 20 20:05	21° \mathbb{B} 39'13	
morning set	2623 Jun 06 15:00	7° \mathbb{I} 08'13			2624 May 24 19:20	0° \mathbb{I}	
asc. node	2623 Jun 09 09:20	13° \mathbb{I} 00'37		asc. node	2624 May 26 06:23	3° \mathbb{I} 09'08	
				max. Earth dist.	2624 May 26 20:09	4° \mathbb{I} 23'58	1.32288 AU
superior conj	2623 Jun 13 17:05	22° \mathbb{I} 27'36	0°44'15				
minimum elong	2623 Jun 13 15:17	22° \mathbb{I} 17'40	0°43'52	superior conj	2624 May 28 03:52	7° \mathbb{I} 17'06	0°19'54
max. Earth dist.	2623 Jun 13 09:23	21° \mathbb{I} 45'12	1.32131 AU	minimum elong	2624 May 28 02:58	7° \mathbb{I} 12'10	0°19'42
	2623 Jun 17 03:25	0° \mathbb{B}		evening rise	2624 Jun 04 00:47	22° \mathbb{I} 13'38	
evening rise	2623 Jun 20 13:39	7° \mathbb{B} 22'17			2624 Jun 07 18:53	0° \mathbb{B}	
	2623 Jul 02 09:16	0° Ω			2624 Jun 26 12:24	0° Ω	
desc. node	2623 Jul 17 06:41	20° Ω 40'40		evening max el	2624 Jun 30 04:01	3° Ω 51'59	24°56'41
evening max el	2623 Jul 19 11:17	22° Ω 53'10	26°15'55	desc. node	2624 Jul 03 03:43	6° Ω 28'19	
	2623 Aug 01 04:33	0° \mathbb{M}		retrograde	2624 Jul 14 03:18	10° Ω 57'05	
retrograde	2623 Aug 02 10:50	0° \mathbb{M} 03'56		evening set	2624 Jul 19 11:14	9° Ω 52'15	
	2623 Aug 03 16:58	30° \mathbb{M}		min. Earth dist.	2624 Jul 24 15:31	7° Ω 05'28	0.57347 AU
evening set	2623 Aug 08 22:43	28° Ω 20'10		inferior conj	2624 Jul 27 14:46	5° Ω 07'08	-5°00'57
min. Earth dist.	2623 Aug 13 00:09	25° Ω 44'35	0.59329 AU				
inferior conj	2623 Aug 16 07:23	23° Ω 13'14	-4°52'48				

































































































































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morning rise	2624 Aug 04 18:13	0°05'51		evening set	2625 Jun 29 03:00	20°03'28	
direct	2624 Aug 07 08:17	0°03'37		min. Earth dist.	2625 Jul 06 03:30	17°02'38	0.55783 AU
morning max el	2624 Aug 16 08:31	4°05'147	19°11'11	inferior conj	2625 Jul 08 02:09	16°01'545	-4°27'18
asc. node	2624 Aug 22 05:36	12°01'52		minimum elong	2625 Jul 07 19:28	16°02'540	4°26'05
	2624 Sep 01 07:34	0°00		morning rise	2625 Jul 16 14:26	12°02'26	
morning set	2624 Sep 02 07:04	1°00'56'17		direct	2625 Jul 19 09:52	12°02'08	
				morning max el	2625 Jul 29 22:41	16°05'506	20°19'49
superior conj	2624 Sep 10 12:31	18°00'12'54	1°42'03		2625 Aug 08 19:29	0°00	
minimum elong	2624 Sep 10 14:08	18°00'20'43	1°41'58	asc. node	2625 Aug 09 02:38	0°00'30'24	
	2624 Sep 16 18:52	0°00		morning set	2625 Aug 17 12:22	16°00'32'12	
max. Earth dist.	2624 Sep 17 01:53	0°00'31'58	1.38392 AU		2625 Aug 24 01:38	0°00	
evening rise	2624 Sep 20 20:59	7°00'17'09					
desc. node	2624 Sep 29 03:01	21°00'02'54		superior conj	2625 Aug 25 03:39	2°00'12'03	1°45'16
	2624 Oct 04 21:45	0°00		minimum elong	2625 Aug 25 03:33	2°00'11'31	1°45'16
evening max el	2624 Oct 26 11:40	27°00'05'144	24°49'14	max. Earth dist.	2625 Aug 30 07:56	12°00'25'50	1.36446 AU
	2624 Oct 28 18:56	0°00		evening rise	2625 Sep 03 06:15	19°00'49'03	
retrograde	2624 Nov 07 03:01	4°00'00'38'02			2625 Sep 09 00:12	0°00	
evening set	2624 Nov 12 17:31	2°00'00'17'10		desc. node	2625 Sep 16 00:02	11°00'02'6'20	
	2624 Nov 14 23:46	30°00'00'00			2625 Sep 28 22:44	0°00	
min. Earth dist.	2624 Nov 17 07:19	27°00'00'06'19	0.67446 AU	evening max el	2625 Oct 08 23:50	11°00'00'32'36	25°58'54
inferior conj	2624 Nov 18 05:23	25°00'00'00'53'18	0°00'30	retrograde	2625 Oct 21 11:45	18°00'00'38'40	
minimum elong	2624 Nov 18 05:22	25°00'00'00'53'21	0°00'29	evening set	2625 Oct 27 16:19	16°00'00'04'37	
transit middle	2624 Nov 18 05:22	25°00'00'00'53'21	0°00'29	min. Earth dist.	2625 Oct 31 22:43	11°00'00'29'13	0.66736 AU
transit begin	2624 Nov 18 02:37	26°00'00'00'02'29		inferior conj	2625 Nov 02 07:49	9°00'00'45'30	-0°56'37
transit end	2624 Nov 18 08:07	25°00'00'00'44'14		minimum elong	2625 Nov 02 09:18	9°00'00'40'50	0°55'59
asc. node	2624 Nov 18 04:48	25°00'00'00'55'13		asc. node	2625 Nov 05 01:50	6°00'00'29'30	
morning rise	2624 Nov 23 17:20	19°00'00'00'52'30		morning rise	2625 Nov 08 02:39	3°00'00'53'35	
direct	2624 Nov 27 08:17	18°00'00'00'36'55		direct	2625 Nov 11 06:52	2°00'00'55'43	
morning max el	2624 Dec 04 20:23	22°00'00'00'53'02	19°53'12	morning max el	2625 Nov 18 04:02	6°00'00'45'23	18°57'40
	2624 Dec 10 19:35	0°00			2625 Dec 04 17:36	0°00	
desc. node	2624 Dec 26 02:15	22°00'00'00'00'22'05		morning set	2625 Dec 10 08:20	8°00'00'00'00'46'38	
morning set	2624 Dec 31 00:10	29°00'00'00'00'00'54'51		desc. node	2625 Dec 12 23:16	12°00'00'00'00'00'53'07	
	2624 Dec 31 01:30	0°00			2625 Dec 23 21:21	0°00	
max. Earth dist.	2625 Jan 11 11:48	17°00'00'00'00'00'54'19	1.44105 AU	max. Earth dist.	2625 Dec 25 04:03	2°00'00'00'00'00'00'00'40	1.44998 AU
superior conj	2625 Jan 16 12:45	26°00'00'00'00'00'00'00'27	-1°55'11	superior conj	2625 Dec 26 22:09	4°00'00'00'00'00'00'00'46'24	-1°25'19
minimum elong	2625 Jan 16 06:35	25°00'00'00'00'00'00'00'35'28	1°54'49	minimum elong	2625 Dec 26 13:10	4°00'00'00'00'00'00'00'11'01	1°24'24
	2625 Jan 18 23:28	0°00		evening rise	2626 Jan 11 01:06	28°00'00'00'00'00'00'00'00'58'39	
evening rise	2625 Jan 29 20:40	18°00'00'00'00'00'00'00'00'15'29			2626 Jan 11 16:11	0°00	
	2625 Feb 05 18:10	0°00		evening max el	2626 Jan 31 12:52	29°00'00'00'00'00'00'00'00'00'40'47	18°38'37
asc. node	2625 Feb 14 04:08	12°00'00'00'00'00'00'00'00'00'55'56			2626 Jan 31 20:33	0°00	
evening max el	2625 Feb 17 01:09	16°00'00'00'00'00'00'00'00'00'16'08	18°13'50	asc. node	2626 Feb 01 01:09	0°00'00'00'00'00'00'00'00'00'11'12	
retrograde	2625 Feb 23 11:51	19°00'00'00'00'00'00'00'00'00'42'14		retrograde	2626 Feb 07 03:44	3°00'00'00'00'00'00'00'00'00'21'03	
evening set	2625 Feb 26 09:44	18°00'00'00'00'00'00'00'00'00'57'54		evening set	2626 Feb 10 07:26	2°00'00'00'00'00'00'00'00'00'24'47	
inferior conj	2625 Mar 04 11:53	13°00'00'00'00'00'00'00'00'00'39'28	3°41'12		2626 Feb 13 05:59	30°00'00'00'00'00'00'00'00'00'00'00	
minimum elong	2625 Mar 04 12:04	13°00'00'00'00'00'00'00'00'00'39'01	3°41'12	inferior conj	2626 Feb 16 01:31	26°00'00'00'00'00'00'00'00'00'00'48'11	3°35'35
min. Earth dist.	2625 Mar 07 02:03	10°00'00'00'00'00'00'00'00'00'49'56	0.63244 AU	minimum elong	2626 Feb 16 00:10	26°00'00'00'00'00'00'00'00'00'00'52'13	3°35'28
morning rise	2625 Mar 10 13:25	7°00'00'00'00'00'00'00'00'00'35'14		min. Earth dist.	2626 Feb 18 00:02	24°00'00'00'00'00'00'00'00'00'00'28'19	0.64964 AU
direct	2625 Mar 17 11:47	4°00'00'00'00'00'00'00'00'00'52'54		morning rise	2626 Feb 21 16:27	20°00'00'00'00'00'00'00'00'00'00'38'25	
desc. node	2625 Mar 24 01:26	6°00'00'00'00'00'00'00'00'00'55'16		direct	2626 Feb 28 10:00	17°00'00'00'00'00'00'00'00'00'00'46'59	
morning max el	2625 Mar 31 08:57	12°00'00'00'00'00'00'00'00'00'49'39	27°44'49	desc. node	2626 Mar 10 22:27	22°00'00'00'00'00'00'00'00'00'00'55'39	
	2625 Apr 14 02:34	0°00		morning max el	2626 Mar 13 18:25	25°00'00'00'00'00'00'00'00'00'00'35'07	27°08'41
	2625 May 01 19:57	0°00			2626 Mar 17 19:48	0°00	
morning set	2625 May 04 18:51	5°00'00'00'00'00'00'00'00'00'48'16			2626 Apr 07 14:45	0°00	
max. Earth dist.	2625 May 10 01:38	16°00'00'00'00'00'00'00'00'00'42'47	1.32864 AU	morning set	2626 Apr 18 08:20	19°00'00'00'00'00'00'00'00'00'00'25'24	
				max. Earth dist.	2626 Apr 22 22:06	28°00'00'00'00'00'00'00'00'00'00'31'04	1.33882 AU
					2626 Apr 23 15:29	0°00	
superior conj	2625 May 12 11:53	21°00'00'00'00'00'00'00'00'00'54'17	-0°06'50				
minimum elong	2625 May 12 12:13	21°00'00'00'00'00'00'00'00'00'56'04	0°06'45	superior conj	2626 Apr 26 15:04	6°00'00'00'00'00'00'00'00'00'00'12'00	-0°34'55
behind sun begin	2625 May 12 07:25	21°00'00'00'00'00'00'00'00'00'30'11		minimum elong	2626 Apr 26 16:51	6°00'00'00'00'00'00'00'00'00'00'21'21	0°34'32
behind sun end	2625 May 12 17:02	22°00'00'00'00'00'00'00'00'00'21'59		asc. node	2626 Apr 30 00:27	13°00'00'00'00'00'00'00'00'00'00'22'46	
asc. node	2625 May 13 03:25	23°00'00'00'00'00'00'00'00'00'18'04		evening rise	2626 May 03 23:17	21°00'00'00'00'00'00'00'00'00'00'44'25	
	2625 May 16 05:41	0°00			2626 May 08 00:26	0°00	
evening rise	2625 May 19 12:38	7°00'00'00'00'00'00'00'00'00'03'19		evening max el	2626 May 24 11:10	24°00'00'00'00'00'00'00'00'00'00'55'45	21°47'26
	2625 May 31 15:22	0°00			2626 May 31 17:29	0°00	
evening max el	2625 Jun 11 17:35	14°00'00'00'00'00'00'00'00'00'02'50	23°22'03	retrograde	2626 Jun 05 23:13	1°00'00'00'00'00'00'00'00'00'00'04'57	
desc. node	2625 Jun 20 00:43	20°00'00'00'00'00'00'00'00'00'00'06'31					

desc. node	2626 Jun 06 21:43	1°☿02'57		evening max el	2627 May 06 14:57	5°♊57'45	20°24'59
evening set	2626 Jun 08 13:19	0°☿49'56		retrograde	2627 May 17 12:33	11°♊15'45	
	2626 Jun 11 11:20	30°♋♊		evening set	2627 May 19 13:23	11°♊05'26	
inferior conj	2626 Jun 17 22:49	26°♊47'13	-3°04'52	desc. node	2627 May 24 18:44	9°♊17'30	
minimum elong	2626 Jun 17 15:03	26°♊58'04	3°02'29	inferior conj	2627 May 28 17:18	7°♊07'23	-1°09'17
min. Earth dist.	2626 Jun 17 14:47	26°♊58'27	0.54957 AU	minimum elong	2627 May 28 14:02	7°♊12'09	1°08'05
morning rise	2626 Jun 26 18:01	22°♊53'36		min. Earth dist.	2627 May 30 03:13	6°♊18'00	0.55066 AU
direct	2626 Jun 29 21:56	22°♊31'36		morning rise	2627 Jun 06 13:36	2°♊54'31	
morning max el	2626 Jul 12 01:16	28°♊13'39	21°47'52	direct	2627 Jun 10 08:27	2°♊23'36	
	2626 Jul 13 20:08	0°☿		morning max el	2627 Jun 23 19:01	8°♊55'28	23°28'29
asc. node	2626 Jul 26 23:41	19°☿33'25			2627 Jul 09 02:23	0°☿	
	2626 Aug 01 06:07	0°♌		asc. node	2627 Jul 13 20:43	9°☿01'56	
morning set	2626 Aug 01 21:38	1°♌20'28		morning set	2627 Jul 17 09:00	16°☿15'00	
					2627 Jul 23 18:43	0°♌	
superior conj	2626 Aug 09 03:50	16°♌38'24	1°41'11	superior conj	2627 Jul 24 10:02	1°♌22'25	1°31'07
minimum elong	2626 Aug 09 02:27	16°♌31'07	1°41'06	minimum elong	2627 Jul 24 07:54	1°♌10'52	1°30'53
max. Earth dist.	2626 Aug 12 21:26	24°♌20'40	1.34793 AU	max. Earth dist.	2627 Jul 26 20:01	6°♌31'44	1.33528 AU
	2626 Aug 15 17:25	0°♍		evening rise	2627 Jul 31 23:26	17°♌07'23	
evening rise	2626 Aug 17 08:31	3°♍09'55			2627 Aug 07 17:48	0°♍	
	2626 Sep 01 21:10	0°♌		desc. node	2627 Aug 20 18:04	21°♍08'43	
desc. node	2626 Sep 02 21:03	1°♌31'11			2627 Aug 27 07:51	0°♌	
evening max el	2626 Sep 21 12:19	25°♌09'16	26°52'15	evening max el	2627 Sep 04 00:01	8°♌29'43	27°22'03
	2626 Sep 27 12:34	0°♍		retrograde	2627 Sep 17 12:36	15°♌47'52	
retrograde	2626 Oct 04 15:05	2°♍24'57		evening set	2627 Sep 24 14:57	13°♌06'14	
	2626 Oct 10 23:42	30°♋♌		min. Earth dist.	2627 Sep 28 08:20	9°♌42'24	0.64259 AU
evening set	2626 Oct 11 08:21	29°♌42'53		inferior conj	2627 Sep 30 17:57	7°♌09'57	-2°54'41
min. Earth dist.	2626 Oct 15 07:47	25°♌43'58	0.65676 AU	minimum elong	2627 Sep 30 22:37	6°♌57'36	2°53'03
inferior conj	2626 Oct 17 04:49	23°♌33'06	-1°55'45	morning rise	2627 Oct 07 07:25	1°♌45'25	
minimum elong	2626 Oct 17 07:57	23°♌23'57	1°54'30	direct	2627 Oct 09 21:02	1°♌11'55	
asc. node	2626 Oct 22 22:52	18°♌06'05		asc. node	2627 Oct 09 19:54	1°♌11'56	
morning rise	2626 Oct 23 08:15	17°♌53'14		morning max el	2627 Oct 16 09:20	4°♌37'58	17°56'11
direct	2626 Oct 26 04:00	17°♌09'21			2627 Nov 02 02:12	0°♍	
morning max el	2626 Nov 01 17:15	20°♌42'42	18°18'25	morning set	2627 Nov 02 12:35	0°♍44'11	
	2626 Nov 08 21:21	0°♍		superior conj	2627 Nov 15 15:25	22°♍34'20	0°07'22
morning set	2626 Nov 20 20:25	19°♍04'32		minimum elong	2627 Nov 15 16:15	22°♍37'45	0°07'15
	2626 Nov 27 14:52	0°♎		behind sun begin	2627 Nov 15 07:04	22°♍00'33	
desc. node	2626 Nov 29 20:18	3°♎33'31		behind sun end	2627 Nov 16 01:26	23°♍14'54	
superior conj	2626 Dec 05 23:59	13°♎18'18	-0°40'41	desc. node	2627 Nov 16 17:21	24°♍19'04	
minimum elong	2626 Dec 05 18:46	12°♎57'45	0°39'59		2627 Nov 20 06:34	0°♎	
max. Earth dist.	2626 Dec 07 23:28	16°♎25'02	1.45160 AU	max. Earth dist.	2627 Nov 20 18:10	0°♎46'01	1.44580 AU
	2626 Dec 16 15:36	0°♏		evening rise	2627 Dec 01 19:00	17°♎59'18	
evening rise	2626 Dec 22 06:35	8°♏47'50			2627 Dec 09 15:54	0°♏	
greatest brilliancy	2627 Jan 02 10:58	26°♏12'27	-0.7m	evening max el	2627 Dec 29 00:57	26°♏39'41	20°17'42
	2627 Jan 04 23:01	0°♏			2628 Jan 01 24:00	0°♏	
evening max el	2627 Jan 14 21:21	13°♏09'32	19°20'30	retrograde	2628 Jan 05 22:03	1°♏17'33	
asc. node	2627 Jan 18 22:10	16°♏23'18		asc. node	2628 Jan 05 19:11	1°♏17'28	
retrograde	2627 Jan 22 00:03	17°♏14'25		evening set	2628 Jan 09 16:54	29°♏54'19	
evening set	2627 Jan 25 10:34	16°♏05'16			2628 Jan 09 13:46	30°♋♏	
inferior conj	2627 Jan 30 23:20	10°♏12'39	3°16'10	inferior conj	2628 Jan 15 02:35	23°♏48'31	2°46'11
minimum elong	2627 Jan 30 21:05	10°♏19'55	3°15'45	minimum elong	2628 Jan 15 00:00	23°♏57'15	2°45'30
min. Earth dist.	2627 Feb 01 06:45	8°♏31'07	0.66289 AU	min. Earth dist.	2628 Jan 15 20:26	22°♏48'07	0.67202 AU
morning rise	2627 Feb 05 07:21	4°♏00'02		morning rise	2628 Jan 20 06:56	17°♏35'00	
direct	2627 Feb 11 14:23	1°♏12'58		direct	2628 Jan 26 00:17	15°♏02'12	
morning max el	2627 Feb 24 04:03	8°♏40'13	26°05'20	morning max el	2628 Feb 06 12:46	21°♏54'53	24°44'19
desc. node	2627 Feb 25 19:30	10°♏23'11		desc. node	2628 Feb 12 16:33	28°♏52'47	
	2627 Mar 12 21:44	0°♐			2628 Feb 13 14:09	0°♏	
	2627 Mar 31 02:23	0°♑		morning set	2628 Mar 05 04:34	0°♐	
morning set	2627 Apr 01 08:38	2°♑19'23		max. Earth dist.	2628 Mar 13 14:35	14°♐16'02	
max. Earth dist.	2627 Apr 05 07:15	9°♑48'15	1.35356 AU		2628 Mar 17 06:06	20°♐49'52	1.37238 AU
superior conj	2627 Apr 10 11:00	20°♑03'09	-1°03'06		2628 Mar 22 03:19	0°♑	
minimum elong	2627 Apr 10 14:14	20°♑19'35	1°02'31	superior conj	2628 Mar 23 20:37	3°♑19'46	-1°29'24
	2627 Apr 15 07:01	0°♒		minimum elong	2628 Mar 24 00:54	3°♑40'36	1°28'50
asc. node	2627 Apr 16 21:29	3°♒19'09		evening rise	2628 Apr 01 08:49	20°♑15'18	
evening rise	2627 Apr 18 06:47	6°♒10'37		asc. node	2628 Apr 02 18:32	23°♑02'49	
	2627 May 01 13:58	0°♊					

	2628 Apr 06 08:51	0°♄			2629 Apr 01 08:27	0°♄	
evening max el	2628 Apr 18 06:42	17°♄40'22	19°20'49	evening max el	2629 Apr 01 08:26	29°♄59'57	18°36'35
retrograde	2628 Apr 27 11:32	22°♄07'50		retrograde	2629 Apr 09 04:00	3°♄49'39	
evening set	2628 Apr 29 12:47	21°♄55'30		evening set	2629 Apr 11 11:11	3°♄30'55	
inferior conj	2628 May 07 23:55	17°♄47'42	0°45'48		2629 Apr 17 21:33	30°♄♂	
minimum elong	2628 May 08 01:47	17°♄44'37	0°45'08	inferior conj	2629 Apr 19 02:36	29°♄04'59	2°14'31
desc. node	2628 May 10 15:46	16°♄03'00		minimum elong	2629 Apr 19 06:30	28°♄57'30	2°13'26
min. Earth dist.	2628 May 10 18:01	15°♄59'25	0.56105 AU	min. Earth dist.	2629 Apr 22 11:59	26°♄29'53	0.57860 AU
morning rise	2628 May 16 11:51	13°♄01'19		morning rise	2629 Apr 26 22:41	23°♄45'27	
direct	2628 May 21 05:32	12°♄09'58		desc. node	2629 Apr 27 12:48	23°♄29'29	
morning max el	2628 Jun 04 09:27	19°♄21'52	25°09'13	direct	2629 May 02 17:02	22°♄21'48	
	2628 Jun 13 08:49	0°♄		morning max el	2629 May 17 02:02	29°♄58'39	26°34'30
asc. node	2628 Jun 29 17:47	28°♄49'00			2629 May 17 02:35	0°♄	
	2628 Jun 30 07:22	0°♄			2629 Jun 07 04:40	0°♄	
morning set	2628 Jun 30 20:48	1°♄10'44		morning set	2629 Jun 15 07:23	16°♄01'00	
				asc. node	2629 Jun 16 14:51	18°♄47'50	
superior conj	2628 Jul 07 19:59	16°♄16'45	1°16'06		2629 Jun 21 18:15	0°♄	
minimum elong	2628 Jul 07 17:35	16°♄03'43	1°15'44	superior conj	2629 Jun 22 07:36	1°♄13'31	0°56'55
max. Earth dist.	2628 Jul 09 02:19	19°♄02'11	1.32672 AU	minimum elong	2629 Jun 22 05:27	1°♄01'43	0°56'31
	2628 Jul 14 05:44	0°♄		max. Earth dist.	2629 Jun 22 13:14	1°♄44'34	1.32215 AU
evening rise	2628 Jul 14 23:26	1°♄31'24		evening rise	2629 Jun 29 05:32	16°♄11'46	
	2628 Jul 30 15:53	0°♄			2629 Jul 06 04:01	0°♄	
desc. node	2628 Aug 06 15:06	10°♄07'35		desc. node	2629 Jul 24 12:07	28°♄11'06	
evening max el	2628 Aug 16 09:03	21°♄21'58	27°22'16		2629 Jul 26 02:05	0°♄	
retrograde	2628 Aug 30 03:53	28°♄38'18		evening max el	2629 Jul 29 13:01	3°♄33'57	26°49'32
evening set	2628 Sep 06 08:41	26°♄09'03		retrograde	2629 Aug 12 11:38	10°♄46'34	
min. Earth dist.	2628 Sep 09 22:54	23°♄14'08	0.62513 AU	evening set	2629 Aug 19 09:04	8°♄43'13	
inferior conj	2628 Sep 12 20:26	20°♄29'47	-3°49'44	min. Earth dist.	2629 Aug 23 03:06	6°♄05'09	0.60518 AU
minimum elong	2628 Sep 13 01:57	20°♄16'41	3°48'14	inferior conj	2629 Aug 26 08:51	3°♄23'52	-4°34'56
morning rise	2628 Sep 19 20:46	15°♄23'44		minimum elong	2629 Aug 26 13:42	3°♄13'46	4°34'06
direct	2628 Sep 22 06:57	14°♄57'17			2629 Aug 30 21:59	30°♄♂	
asc. node	2628 Sep 25 16:58	15°♄51'22		morning rise	2629 Sep 02 20:13	28°♄39'04	
morning max el	2628 Sep 29 01:17	18°♄24'22	17°51'45	direct	2629 Sep 05 05:50	28°♄16'53	
	2628 Oct 07 10:25	0°♄			2629 Sep 10 06:57	0°♄	
morning set	2628 Oct 15 03:04	13°♄27'34		morning max el	2629 Sep 12 13:57	1°♄53'36	18°06'23
	2628 Oct 24 12:49	0°♄		asc. node	2629 Sep 12 14:02	1°♄53'51	
superior conj	2628 Oct 26 08:35	3°♄06'34	0°48'26	morning set	2629 Sep 28 09:48	26°♄57'38	
minimum elong	2628 Oct 26 12:41	3°♄23'57	0°47'52		2629 Sep 30 00:48	0°♄	
max. Earth dist.	2628 Nov 02 09:03	14°♄44'49	1.43341 AU	superior conj	2629 Oct 08 03:52	14°♄55'20	1°18'05
desc. node	2628 Nov 02 14:24	15°♄06'27		minimum elong	2629 Oct 08 08:03	15°♄14'02	1°17'38
evening rise	2628 Nov 10 04:39	27°♄09'11		max. Earth dist.	2629 Oct 15 19:05	28°♄09'22	1.41602 AU
	2628 Nov 12 00:46	0°♄			2629 Oct 16 21:32	0°♄	
	2628 Dec 02 13:16	0°♄		desc. node	2629 Oct 20 11:26	5°♄52'27	
evening max el	2628 Dec 10 23:00	10°♄10'53	21°27'17	evening rise	2629 Oct 21 03:58	6°♄59'13	
retrograde	2628 Dec 19 19:33	15°♄26'45			2629 Nov 05 05:39	0°♄	
asc. node	2628 Dec 22 16:14	14°♄41'41		evening max el	2629 Nov 23 16:04	23°♄44'31	22°44'54
evening set	2628 Dec 24 00:33	13°♄48'08		retrograde	2629 Dec 03 14:51	29°♄38'58	
inferior conj	2628 Dec 29 09:00	7°♄32'28	2°07'50	evening set	2629 Dec 08 07:52	27°♄43'52	
minimum elong	2628 Dec 29 06:36	7°♄40'47	2°07'01	asc. node	2629 Dec 09 13:16	26°♄35'21	
min. Earth dist.	2628 Dec 29 14:47	7°♄12'29	0.67726 AU	inferior conj	2629 Dec 13 16:36	21°♄21'59	1°22'38
morning rise	2629 Jan 03 12:27	1°♄19'53		minimum elong	2629 Dec 13 14:49	21°♄28'08	1°21'56
	2629 Jan 05 08:59	30°♄♂		min. Earth dist.	2629 Dec 13 11:19	21°♄40'16	0.67888 AU
direct	2629 Jan 08 14:58	29°♄07'21		morning rise	2629 Dec 18 21:39	15°♄12'21	
	2629 Jan 12 03:30	0°♄		direct	2629 Dec 23 09:27	13°♄22'34	
morning max el	2629 Jan 18 21:44	5°♄14'12	23°15'50	morning max el	2630 Jan 01 10:29	18°♄40'43	21°49'24
desc. node	2629 Jan 29 13:36	18°♄06'27			2630 Jan 10 19:15	0°♄	
	2629 Feb 06 23:14	0°♄		desc. node	2630 Jan 16 10:39	7°♄51'49	
morning set	2629 Feb 22 19:54	24°♄58'19			2630 Jan 31 03:21	0°♄	
	2629 Feb 25 18:57	0°♄		morning set	2630 Feb 02 20:12	4°♄17'13	
max. Earth dist.	2629 Feb 27 00:44	2°♄08'47	1.39375 AU	max. Earth dist.	2630 Feb 08 23:29	14°♄17'51	1.41497 AU
superior conj	2629 Mar 06 15:54	15°♄51'17	-1°51'03	superior conj	2630 Feb 16 15:56	27°♄26'21	-2°04'07
minimum elong	2629 Mar 06 20:06	16°♄10'45	1°50'43	minimum elong	2630 Feb 16 17:56	27°♄35'08	2°04'03
	2629 Mar 14 02:46	0°♄			2630 Feb 18 02:46	0°♄	
evening rise	2629 Mar 16 02:32	3°♄50'20		evening rise	2630 Feb 27 08:28	16°♄48'01	
asc. node	2629 Mar 20 15:34	12°♄28'02					

	2630 Mar 06 15:45	0°♿		asc. node	2631 Feb 22 09:38	19°♿56'47	
asc. node	2630 Mar 07 12:37	1°♿28'50		evening max el	2631 Feb 27 04:54	25°♿56'42	18°07'47
evening max el	2630 Mar 15 16:58	12°♿48'41	18°12'22	retrograde	2631 Mar 05 16:57	29°♿20'01	
retrograde	2630 Mar 22 15:02	16°♿17'20		evening set	2631 Mar 08 11:46	28°♿41'57	
evening set	2630 Mar 25 04:26	15°♿49'36		inferior conj	2631 Mar 14 20:02	23°♿34'17	3°36'23
inferior conj	2630 Apr 01 02:22	11°♿02'37	3°09'55	minimum elong	2631 Mar 14 21:16	23°♿31'05	3°36'17
minimum elong	2630 Apr 01 05:28	10°♿55'39	3°09'21	min. Earth dist.	2631 Mar 17 18:17	20°♿35'08	0.621111 AU
min. Earth dist.	2630 Apr 04 11:10	8°♿03'04	0.59979 AU	morning rise	2631 Mar 21 05:25	17°♿35'22	
morning rise	2630 Apr 08 04:14	5°♿18'47		direct	2631 Mar 28 02:52	15°♿05'21	
desc. node	2630 Apr 14 09:50	3°♿19'12		desc. node	2631 Apr 01 06:50	15°♿54'30	
direct	2630 Apr 14 17:02	3°♿18'57		morning max el	2631 Apr 11 05:02	23°♿01'28	27°50'27
morning max el	2630 Apr 29 00:26	11°♿08'56	27°30'40		2631 Apr 17 09:57	0°♿	
	2630 May 13 17:17	0°♿			2631 May 06 22:15	0°♿	
	2630 May 30 07:13	0°♿		morning set	2631 May 14 17:43	15°♿02'46	
morning set	2630 May 30 15:01	0°♿40'26		max. Earth dist.	2631 May 20 10:25	27°♿00'55	1.32485 AU
asc. node	2630 Jun 03 11:54	8°♿53'49		asc. node	2631 May 21 08:57	29°♿02'47	
max. Earth dist.	2630 Jun 06 01:14	14°♿28'25	1.32153 AU		2631 May 21 19:30	0°♿	
superior conj	2630 Jun 06 19:10	16°♿06'59	0°34'15	superior conj	2631 May 22 04:59	0°♿51'36	0°08'48
minimum elong	2630 Jun 06 17:42	15°♿58'55	0°33'57	minimum elong	2631 May 22 04:34	0°♿49'21	0°08'43
	2630 Jun 13 03:58	0°♿		behind sun begin	2631 May 22 00:14	0°♿25'45	
evening rise	2630 Jun 13 15:26	1°♿00'59		behind sun end	2631 May 22 08:54	1°♿12'58	
	2630 Jun 29 09:49	0°♿		evening rise	2631 May 29 03:07	15°♿52'23	
desc. node	2630 Jul 11 09:08	14°♿56'37			2631 Jun 05 03:40	0°♿	
evening max el	2630 Jul 11 09:54	14°♿58'26	25°45'03	evening max el	2631 Jun 23 00:30	25°♿41'55	24°17'20
retrograde	2630 Jul 25 09:49	22°♿06'41		desc. node	2631 Jun 28 06:08	29°♿53'50	
evening set	2630 Jul 31 11:21	20°♿39'38			2631 Jun 28 10:03	0°♿	
min. Earth dist.	2630 Aug 04 22:09	18°♿01'21	0.58458 AU	retrograde	2631 Jul 06 20:46	2°♿41'04	
inferior conj	2630 Aug 08 03:37	15°♿42'05	-5°00'30	evening set	2631 Jul 11 14:00	1°♿51'29	
minimum elong	2630 Aug 08 05:16	15°♿39'06	5°00'26		2631 Jul 15 15:16	30°♿♿	
morning rise	2630 Aug 16 01:26	11°♿20'10		min. Earth dist.	2631 Jul 17 11:17	28°♿55'25	0.56610 AU
direct	2630 Aug 18 13:25	11°♿00'08		inferior conj	2631 Jul 20 02:18	27°♿16'34	-4°52'35
morning max el	2630 Aug 26 20:03	14°♿56'23	18°41'26	minimum elong	2631 Jul 19 22:29	27°♿22'34	4°52'12
asc. node	2630 Aug 30 11:07	19°♿04'13		morning rise	2631 Jul 28 09:39	23°♿15'12	
	2630 Sep 06 08:17	0°♿		direct	2631 Jul 31 02:00	22°♿56'01	
morning set	2630 Sep 12 03:57	11°♿00'40		morning max el	2631 Aug 09 16:42	27°♿24'05	19°37'54
					2631 Aug 12 04:12	0°♿	
superior conj	2630 Sep 20 20:22	27°♿46'43	1°36'14	asc. node	2631 Aug 17 08:09	7°♿08'04	
minimum elong	2630 Sep 20 23:03	27°♿59'20	1°36'04	morning set	2631 Aug 27 05:59	25°♿27'10	
	2630 Sep 22 00:49	0°♿			2631 Aug 29 12:02	0°♿	
max. Earth dist.	2630 Sep 28 00:43	10°♿52'16	1.39582 AU				
evening rise	2630 Oct 02 01:59	17°♿51'54		superior conj	2631 Sep 04 04:40	11°♿25'41	1°44'24
desc. node	2630 Oct 07 08:26	26°♿33'12		minimum elong	2631 Sep 04 05:30	11°♿29'51	1°44'23
	2630 Oct 09 12:25	0°♿		max. Earth dist.	2631 Sep 10 05:02	22°♿58'39	1.37534 AU
	2630 Oct 30 16:17	0°♿		evening rise	2631 Sep 13 23:23	29°♿50'03	
evening max el	2630 Nov 06 05:38	7°♿21'15	24°04'50		2631 Sep 14 01:36	0°♿	
retrograde	2630 Nov 17 06:40	13°♿50'22		desc. node	2631 Sep 24 05:28	17°♿04'42	
evening set	2630 Nov 22 13:12	11°♿38'27			2631 Oct 02 19:05	0°♿	
asc. node	2630 Nov 26 10:19	7°♿19'11		evening max el	2631 Oct 19 17:44	21°♿01'12	25°20'17
inferior conj	2630 Nov 27 23:34	5°♿14'17	0°31'49	retrograde	2631 Oct 31 18:14	27°♿57'03	
minimum elong	2630 Nov 27 22:49	5°♿16'51	0°31'30	evening set	2631 Nov 06 14:56	25°♿29'50	
min. Earth dist.	2630 Nov 27 07:38	6°♿08'10	0.67709 AU	min. Earth dist.	2631 Nov 11 01:25	20°♿34'12	0.67191 AU
	2630 Dec 02 08:27	30°♿♿		inferior conj	2631 Nov 12 04:12	19°♿07'30	-0°23'22
morning rise	2630 Dec 03 08:26	29°♿09'44		minimum elong	2631 Nov 12 04:47	19°♿05'34	0°23'07
direct	2630 Dec 07 06:34	27°♿42'19		asc. node	2631 Nov 13 07:20	17°♿40'35	
	2630 Dec 12 16:44	0°♿		morning rise	2631 Nov 17 18:53	13°♿10'25	
morning max el	2630 Dec 15 06:11	2°♿17'46	20°31'55	direct	2631 Nov 21 05:01	12°♿02'53	
desc. node	2631 Jan 03 07:39	27°♿59'30		morning max el	2631 Nov 28 09:51	16°♿06'09	19°27'41
	2631 Jan 04 15:45	0°♿			2631 Dec 09 02:17	0°♿	
morning set	2631 Jan 12 20:48	12°♿33'12		greatest brilliancy	2631 Dec 11 18:38	3°♿59'16	-0.7m
max. Earth dist.	2631 Jan 22 06:01	27°♿23'11	1.43308 AU	desc. node	2631 Dec 21 04:41	18°♿23'40	
	2631 Jan 23 20:44	0°♿		morning set	2631 Dec 22 19:01	20°♿51'54	
					2631 Dec 28 16:07	0°♿	
superior conj	2631 Jan 28 15:32	7°♿52'22	-2°03'34	max. Earth dist.	2632 Jan 04 19:25	11°♿12'21	1.44574 AU
minimum elong	2631 Jan 28 12:40	7°♿40'25	2°03'29				
evening rise	2631 Feb 09 22:21	28°♿58'53		superior conj	2632 Jan 08 13:04	17°♿08'45	-1°44'48
	2631 Feb 10 12:16	0°♿		minimum elong	2632 Jan 08 05:00	16°♿36'31	1°44'09

	2632 Jan 16 11:29	0°♊		max. Earth dist.	2632 Dec 17 13:00	25°♊27'20	1.45153 AU
evening rise	2632 Jan 22 16:01	10°♊15'44			2632 Dec 20 10:27	0°♊	
	2632 Feb 03 16:27	0°♋		evening rise	2633 Jan 02 10:32	20°♊35'20	
asc. node	2632 Feb 09 06:39	7°♋42'04			2633 Jan 08 07:49	0°♋	
evening max el	2632 Feb 10 17:23	9°♋16'47	18°22'07	greatest brilliancy	2633 Jan 10 13:11	3°♋32'17	-0.8m
retrograde	2632 Feb 17 04:58	12°♋47'53		evening max el	2633 Jan 24 03:57	22°♋43'55	18°54'26
evening set	2632 Feb 20 05:11	11°♋58'38		asc. node	2633 Jan 26 03:39	24°♋32'39	
inferior conj	2632 Feb 26 03:30	6°♋32'00	3°40'45	retrograde	2633 Jan 30 23:11	26°♋33'48	
minimum elong	2632 Feb 26 02:58	6°♋33'32	3°40'44	evening set	2633 Feb 03 05:30	25°♋32'24	
min. Earth dist.	2632 Feb 28 10:59	3°♋53'34	0.64019 AU	inferior conj	2633 Feb 08 21:02	19°♋48'47	3°28'48
morning rise	2632 Mar 03 00:01	0°♌24'40		minimum elong	2633 Feb 08 19:14	19°♋54'23	3°28'35
	2632 Mar 03 12:33	30°♌		min. Earth dist.	2633 Feb 10 13:03	17°♌44'14	0.65575 AU
direct	2632 Mar 09 21:00	27°♌36'53		morning rise	2633 Feb 14 08:35	13°♌37'17	
	2632 Mar 16 21:53	0°♌		direct	2633 Feb 20 22:11	10°♌45'59	
desc. node	2632 Mar 18 03:52	0°♌50'23		desc. node	2633 Mar 05 00:54	17°♌31'48	
morning max el	2632 Mar 23 13:45	5°♌31'43	27°33'20	morning max el	2633 Mar 05 23:39	18°♌27'52	26°44'30
	2632 Apr 11 04:05	0°♍			2633 Mar 15 17:37	0°♍	
morning set	2632 Apr 27 12:56	28°♍59'30			2633 Apr 04 03:18	0°♍	
	2632 Apr 28 01:09	0°♎		morning set	2633 Apr 10 21:25	12°♍20'41	
max. Earth dist.	2632 May 02 12:39	9°♎08'25	1.33239 AU	max. Earth dist.	2633 Apr 15 04:18	20°♍42'25	1.34449 AU
superior conj	2632 May 05 11:11	15°♎20'59	-0°18'39	superior conj	2633 Apr 19 11:39	29°♍28'50	-0°46'57
minimum elong	2632 May 05 12:06	15°♎25'57	0°18'26	minimum elong	2633 Apr 19 14:03	29°♍41'21	0°46'29
asc. node	2632 May 07 05:58	19°♎10'11			2633 Apr 19 17:39	0°♎	
	2632 May 12 07:17	0°♏		asc. node	2633 Apr 24 03:00	9°♎12'07	
evening rise	2632 May 12 14:40	0°♏39'00		evening rise	2633 Apr 27 00:16	15°♎14'48	
	2632 May 29 05:41	0°♐			2633 May 04 12:38	0°♏	
evening max el	2632 Jun 03 14:37	6°♐08'52	22°40'55	evening max el	2633 May 16 12:07	16°♏52'22	21°10'27
desc. node	2632 Jun 14 03:08	12°♐26'25		retrograde	2633 May 28 09:15	22°♏40'44	
retrograde	2632 Jun 16 19:34	12°♐42'56		evening set	2633 May 30 15:15	22°♏28'59	
evening set	2632 Jun 20 01:06	12°♐19'59		desc. node	2633 Jun 01 00:07	22°♏10'56	
min. Earth dist.	2632 Jun 27 22:37	8°♐52'20	0.55319 AU	inferior conj	2633 Jun 09 00:19	18°♏30'27	-2°18'06
inferior conj	2632 Jun 29 06:18	8°♐07'02	-3°57'59	minimum elong	2633 Jun 08 17:59	18°♏39'21	2°15'56
minimum elong	2632 Jun 28 22:23	8°♐18'23	3°56'06	min. Earth dist.	2633 Jun 09 10:41	18°♏15'50	0.54882 AU
morning rise	2632 Jul 07 21:57	4°♐15'35		morning rise	2633 Jun 17 20:54	14°♏30'35	
direct	2632 Jul 10 20:15	3°♐55'47		direct	2633 Jun 21 06:00	14°♏05'51	
morning max el	2632 Jul 22 01:59	9°♐08'46	20°55'17	morning max el	2633 Jul 04 00:24	20°♏10'28	22°29'40
asc. node	2632 Aug 03 05:11	25°♐52'16			2633 Jul 12 05:23	0°♐	
	2632 Aug 05 10:56	0°♑		asc. node	2633 Jul 21 02:15	15°♐07'03	
morning set	2632 Aug 10 13:12	10°♑08'49		morning set	2633 Jul 25 23:34	25°♐00'03	
					2633 Jul 28 08:19	0°♑	
superior conj	2632 Aug 18 00:05	25°♑37'47	1°44'21	superior conj	2633 Aug 02 03:10	10°♑12'34	1°37'35
minimum elong	2632 Aug 17 23:22	25°♑34'07	1°44'19	minimum elong	2633 Aug 02 01:23	10°♑03'09	1°37'26
	2632 Aug 20 03:34	0°♒		max. Earth dist.	2633 Aug 05 06:33	16°♑47'38	1.34206 AU
max. Earth dist.	2632 Aug 22 13:29	4°♒48'41	1.35692 AU	evening rise	2633 Aug 10 00:35	26°♑21'54	
evening rise	2632 Aug 26 16:25	12°♒44'00			2633 Aug 11 21:46	0°♒	
	2632 Sep 05 12:03	0°♓		desc. node	2633 Aug 27 23:31	27°♒14'57	
desc. node	2632 Sep 10 02:30	7°♓20'56			2633 Aug 29 20:34	0°♓	
	2632 Sep 26 19:29	0°♔		evening max el	2633 Sep 13 18:09	18°♓11'21	27°08'15
evening max el	2632 Oct 01 05:49	4°♔40'23	26°23'58	retrograde	2633 Sep 27 02:01	25°♓29'19	
retrograde	2632 Oct 14 00:55	11°♔52'31		evening set	2633 Oct 03 23:33	22°♓46'23	
evening set	2632 Oct 20 11:10	9°♔13'57		min. Earth dist.	2633 Oct 07 20:15	19°♓02'29	0.65109 AU
min. Earth dist.	2632 Oct 24 14:25	4°♔54'09	0.66325 AU	inferior conj	2633 Oct 09 22:33	16°♓41'33	-2°21'00
inferior conj	2632 Oct 26 04:34	2°♔58'02	-1°21'35	minimum elong	2633 Oct 10 02:22	16°♓30'48	2°19'32
minimum elong	2632 Oct 26 06:45	2°♔51'22	1°20'40	morning rise	2633 Oct 16 06:05	11°♓07'37	
	2632 Oct 28 17:57	30°♕		asc. node	2633 Oct 17 01:25	10°♓47'56	
asc. node	2632 Oct 30 04:22	28°♓35'52		direct	2633 Oct 18 22:50	10°♓28'41	
morning rise	2632 Nov 01 02:54	27°♓11'01		morning max el	2633 Oct 25 10:59	13°♓58'15	18°06'47
direct	2632 Nov 04 03:07	26°♓19'44			2633 Nov 05 19:40	0°♔	
	2632 Nov 10 19:37	0°♕		morning set	2633 Nov 12 14:44	11°♔12'22	
morning max el	2632 Nov 10 20:15	0°♕01'34	18°38'57	desc. node	2633 Nov 23 22:48	29°♔42'05	
	2632 Dec 01 09:36	0°♖			2633 Nov 24 03:17	0°♖	
morning set	2632 Dec 01 14:12	0°♖18'18					
desc. node	2632 Dec 07 01:45	8°♖59'18		superior conj	2633 Nov 26 22:04	4°♖26'27	-0°20'00
				minimum elong	2633 Nov 26 19:33	4°♖16'25	0°19'39
superior conj	2632 Dec 17 16:48	25°♖42'13	-1°07'38	max. Earth dist.	2633 Nov 30 08:01	9°♖50'34	1.44996 AU
minimum elong	2632 Dec 17 08:42	25°♖10'26	1°06'40				

evening rise	2633 Dec 13 07:26	0°  04'39		superior conj	2634 Nov 06 23:45	14°  13'08	0°26'02
	2633 Dec 13 06:14	0° 		minimum elong	2634 Nov 07 02:26	14°  24'11	0°25'39
greatest brilliancy	2633 Dec 26 10:24	20°  11'47	-0.7m	desc. node	2634 Nov 10 19:51	20°  28'58	
	2634 Jan 02 06:30	0° 		max. Earth dist.	2634 Nov 13 01:50	24°  05'58	1.44127 AU
evening max el	2634 Jan 07 10:36	6°  13'54	19°43'12		2634 Nov 16 19:05	0° 	
asc. node	2634 Jan 13 00:41	10°  13'38		evening rise	2634 Nov 22 16:40	9°  11'01	
retrograde	2634 Jan 14 20:23	10°  31'47			2634 Dec 06 12:27	0° 	
evening set	2634 Jan 18 10:15	9°  16'54		evening max el	2634 Dec 21 12:01	19°  34'51'19	20°46'02
inferior conj	2634 Jan 23 21:29	3°  18'38	3°04'36	retrograde	2634 Dec 29 18:21	24°  38'23	
minimum elong	2634 Jan 23 19:01	3°  26'45	3°04'03	asc. node	2634 Dec 30 21:44	24°  31'09	
min. Earth dist.	2634 Jan 24 23:01	1°  54'15	0.66728 AU	evening set	2635 Jan 02 17:23	23°  08'39	
	2634 Jan 26 10:50	30° 		inferior conj	2635 Jan 08 02:20	16°  58'23	2°30'52
morning rise	2634 Jan 29 03:34	27°  30'528		minimum elong	2635 Jan 07 23:47	17°  30'710	2°30'05
direct	2634 Feb 04 05:11	24°  32'3'09		min. Earth dist.	2635 Jan 08 14:52	16°  31'530	0.67475 AU
	2634 Feb 14 16:32	0° 		morning rise	2635 Jan 13 06:00	10°  34'5'20	
morning max el	2634 Feb 16 08:39	1°  37'17	25°32'23	direct	2635 Jan 18 17:13	8°  32'0'37	
desc. node	2634 Feb 19 21:58	5°  28'19		morning max el	2635 Jan 29 17:05	14°  35'53'57	24°07'02
	2634 Mar 09 19:22	0° 		desc. node	2635 Feb 06 19:02	24°  31'8'38	
morning set	2634 Mar 24 14:38	24°  31'52'19			2635 Feb 11 01:31	0° 	
	2634 Mar 27 09:16	0° 			2635 Mar 02 17:35	0° 	
max. Earth dist.	2634 Mar 28 08:18	1°  48'24	1.36115 AU	morning set	2635 Mar 06 10:51	6°  31'9'09	
				max. Earth dist.	2635 Mar 10 04:41	12°  31'54'22	1.38139 AU
superior conj	2634 Apr 03 03:39	13°  46'06'47	-1°14'37	superior conj	2635 Mar 17 07:45	26°  31'05'58	-1°39'21
minimum elong	2634 Apr 03 07:24	13°  46'25'33	1°14'01	minimum elong	2635 Mar 17 12:11	26°  31'27'08	1°38'51
evening rise	2634 Apr 11 05:44	29°  46'32'39			2635 Mar 19 08:26	0° 	
asc. node	2634 Apr 11 00:02	29°  46'03'41		evening rise	2635 Mar 26 04:38	13°  46'0'26'00	
	2634 Apr 11 11:08	0° 		asc. node	2635 Mar 28 21:04	18°  46'0'40'21	
evening max el	2634 Apr 28 21:10	28°  46'11'46	19°55'17		2635 Apr 04 02:53	0° 	
	2634 Apr 30 22:44	0° 		evening max el	2635 Apr 11 17:30	10°  46'10'51	18°59'25
retrograde	2634 May 09 00:42	3°  46'06'37		retrograde	2635 Apr 20 06:38	14°  46'20'15	
evening set	2634 May 11 00:43	2°  46'56'00		evening set	2635 Apr 22 10:20	14°  46'05'30	
	2634 May 18 03:22	30° 		inferior conj	2635 Apr 30 13:00	9°  46'50'15	1°27'29
desc. node	2634 May 18 21:09	29°  46'33'46		minimum elong	2635 Apr 30 16:09	9°  46'44'41	1°26'27
inferior conj	2634 May 19 22:24	28°  46'55'37	-0°18'29	min. Earth dist.	2635 May 03 15:36	7°  46'40'11	0.56791 AU
minimum elong	2634 May 19 21:34	28°  46'56'54	0°18'09	desc. node	2635 May 05 18:12	6°  46'20'06	
min. Earth dist.	2634 May 22 00:01	27°  46'40'20	0.55411 AU	morning rise	2635 May 08 18:53	4°  46'49'20	
morning rise	2634 May 28 16:20	24°  46'29'32		direct	2635 May 13 23:24	3°  46'45'36	
direct	2634 Jun 01 20:30	23°  46'51'15		morning max el	2635 May 28 06:25	11°  46'08'52	25°48'21
	2634 Jun 14 21:43	0° 			2635 Jun 11 17:33	0° 	
morning max el	2634 Jun 15 15:47	0°  46'11'41'45	24°12'08	morning set	2635 Jun 24 22:49	24°  46'11'49'55	
	2634 Jul 05 14:18	0° 		asc. node	2635 Jun 24 20:22	24°  46'11'37'00	
asc. node	2634 Jul 07 23:20	4°  46'44'14			2635 Jun 27 08:48	0° 	
morning set	2634 Jul 10 11:20	9°  46'55'38					
superior conj	2634 Jul 17 11:13	25°  46'01'43	1°25'17	superior conj	2635 Jul 01 22:04	9°  46'57'44	1°08'25
minimum elong	2634 Jul 17 08:55	24°  46'49'12	1°25'00	minimum elong	2635 Jul 01 19:44	9°  46'44'54	1°08'02
max. Earth dist.	2634 Jul 19 08:51	29°  46'07'48	1.33118 AU	max. Earth dist.	2635 Jul 02 17:45	11°  46'45'41	1.32433 AU
	2634 Jul 19 18:36	0° 		evening rise	2635 Jul 08 22:42	25°  46'04'11	
evening rise	2634 Jul 24 19:48	10°  46'02'32'08			2635 Jul 11 08:39	0° 	
	2634 Aug 04 05:08	0° 			2635 Jul 28 20:07	0° 	
desc. node	2634 Aug 14 20:31	16°  46'07'37'37		desc. node	2635 Aug 01 17:32	5°  46'15'22	
	2634 Aug 25 19:38	0° 		evening max el	2635 Aug 09 12:34	13°  46'07'59'17	27°12'27
evening max el	2634 Aug 27 05:19	1°  46'22'37	27°26'09	retrograde	2635 Aug 23 08:47	21°  46'07'13'26	
retrograde	2634 Sep 09 20:54	8°  46'03'39'37		evening set	2635 Aug 30 12:06	18°  46'07'53'33	
evening set	2634 Sep 17 01:10	6°  46'02'03		min. Earth dist.	2635 Sep 03 02:48	16°  46'07'53	0.61689 AU
min. Earth dist.	2634 Sep 20 16:51	2°  46'51'20	0.63551 AU	inferior conj	2635 Sep 06 04:32	13°  46'22'52	-4°10'35
inferior conj	2634 Sep 23 07:36	0°  46'12'42	-3°18'49	minimum elong	2635 Sep 06 10:01	13°  46'07'10'32	4°09'19
minimum elong	2634 Sep 23 12:45	29°  46'07'59'39	3°17'10	morning rise	2635 Sep 13 09:36	8°  46'07'25'35	
	2634 Sep 23 12:37	30° 		direct	2635 Sep 15 19:19	8°  46'07'01'08	
morning rise	2634 Sep 30 01:34	24°  46'07'55'18		asc. node	2635 Sep 20 19:35	9°  46'07'51'09	
direct	2634 Oct 02 13:26	24°  46'07'25'05		morning max el	2635 Sep 22 18:17	11°  46'07'30'49	17°55'36
asc. node	2634 Oct 03 22:31	24°  46'07'34'30			2635 Oct 05 01:50	0° 	
morning max el	2634 Oct 09 03:21	27°  46'07'50'38	17°52'02	morning set	2635 Oct 08 15:21	6°  46'07'27'35	
	2634 Oct 11 02:09	0° 					
morning set	2634 Oct 25 17:17	23°  46'07'22'16		superior conj	2635 Oct 19 04:27	25°  46'07'19'16	1°02'28
	2634 Oct 29 13:16	0° 		minimum elong	2635 Oct 19 08:53	25°  46'07'38'29	1°01'55
					2635 Oct 21 21:53	0° 	

























































































































































max. Earth dist.	2635 Oct 26 15:16	7°♄53'45	1.42652 AU	minimum elong	2636 Sep 30 13:09	7°♄53'47	1°26'46
desc. node	2635 Oct 28 16:52	11°♄16'07		max. Earth dist.	2636 Oct 07 22:55	20°♄59'47	1.40761 AU
evening rise	2635 Nov 02 06:24	18°♄33'33		evening rise	2636 Oct 12 14:46	28°♄48'28	
	2635 Nov 09 16:29	0°♄			2636 Oct 13 08:14	0°♄	
	2635 Dec 01 07:46	0°♄		desc. node	2636 Oct 14 13:52	2°♄00'19	
evening max el	2635 Dec 04 07:44	3°♄17'00	21°59'33		2636 Nov 02 06:05	0°♄	
retrograde	2635 Dec 13 15:06	8°♄49'24		evening max el	2636 Nov 15 22:51	16°♄50'57	23°18'56
asc. node	2635 Dec 17 18:48	7°♄15'57		retrograde	2636 Nov 26 09:10	23°♄01'36	
evening set	2635 Dec 18 01:05	7°♄03'36		evening set	2636 Dec 01 07:45	20°♄59'12	
inferior conj	2635 Dec 23 09:28	0°♄44'42	1°49'26	asc. node	2636 Dec 03 15:51	18°♄35'37	
minimum elong	2635 Dec 23 07:17	0°♄52'17	1°48'37	inferior conj	2636 Dec 06 17:00	14°♄35'32	1°01'41
min. Earth dist.	2635 Dec 23 10:21	0°♄41'37	0.67839 AU	minimum elong	2636 Dec 06 15:36	14°♄40'19	1°01'07
	2635 Dec 23 22:22	30°♄		min. Earth dist.	2636 Dec 06 07:06	15°♄09'30	0.67849 AU
morning rise	2635 Dec 28 13:20	24°♄33'19		morning rise	2636 Dec 11 23:24	8°♄27'43	
direct	2636 Jan 02 09:26	22°♄30'36		direct	2636 Dec 16 05:06	6°♄47'50	
morning max el	2636 Jan 12 03:21	28°♄16'20	22°38'27	morning max el	2636 Dec 24 18:50	11°♄47'14	21°15'00
	2636 Jan 13 18:50	0°♄			2637 Jan 07 23:44	0°♄	
desc. node	2636 Jan 24 16:05	13°♄46'55		desc. node	2637 Jan 10 13:06	3°♄42'31	
	2636 Feb 04 18:37	0°♄		morning set	2637 Jan 24 16:41	25°♄13'11	
morning set	2636 Feb 15 04:05	16°♄26'20			2637 Jan 27 16:59	0°♄	
max. Earth dist.	2636 Feb 20 00:41	24°♄33'54	1.40296 AU	max. Earth dist.	2637 Feb 01 02:08	7°♄05'38	1.42311 AU
	2636 Feb 23 04:15	0°♄					
superior conj	2636 Feb 27 19:28	8°♄15'01	-1°57'55	superior conj	2637 Feb 08 09:35	19°♄21'20	-2°05'52
minimum elong	2636 Feb 27 23:04	8°♄31'17	1°57'42	minimum elong	2637 Feb 08 09:48	19°♄22'19	2°05'52
evening rise	2636 Mar 08 17:49	26°♄46'48			2637 Feb 14 11:38	0°♄	
	2636 Mar 10 10:44	0°♄		evening rise	2637 Feb 19 17:27	9°♄25'32	
asc. node	2636 Mar 14 18:06	7°♄56'31		asc. node	2637 Mar 01 15:08	26°♄44'39	
evening max el	2636 Mar 24 22:28	22°♄44'07	18°23'49		2637 Mar 03 18:16	0°♄	
retrograde	2636 Apr 01 07:39	26°♄23'18		evening max el	2637 Mar 08 08:48	5°♄42'06	18°08'08
evening set	2636 Apr 03 17:24	26°♄01'05		retrograde	2637 Mar 15 01:30	9°♄06'56	
inferior conj	2636 Apr 11 00:57	21°♄26'04	2°41'58	evening set	2637 Mar 17 17:09	8°♄35'05	
minimum elong	2636 Apr 11 04:44	21°♄18'14	2°41'03	inferior conj	2637 Mar 24 08:48	3°♄39'28	3°24'15
min. Earth dist.	2636 Apr 14 11:33	18°♄37'32	0.58732 AU	minimum elong	2637 Mar 24 11:10	3°♄33'50	3°23'55
morning rise	2636 Apr 18 13:14	15°♄54'40		min. Earth dist.	2637 Mar 27 14:06	0°♄36'49	0.60891 AU
desc. node	2636 Apr 21 15:13	14°♄40'17			2637 Mar 28 06:43	30°♄	
direct	2636 Apr 24 16:14	14°♄15'46		morning rise	2637 Mar 31 03:15	27°♄47'58	
morning max el	2636 May 09 01:31	21°♄59'32	27°02'39	direct	2637 Apr 06 20:54	25°♄33'48	
	2636 May 16 02:25	0°♄		desc. node	2637 Apr 08 12:16	25°♄41'21	
	2636 Jun 03 14:16	0°♄			2637 Apr 17 05:28	0°♄	
morning set	2636 Jun 08 08:25	9°♄37'22		morning max el	2637 Apr 21 02:47	3°♄28'16	27°43'43
asc. node	2636 Jun 10 17:24	14°♄40'02			2637 May 10 15:54	0°♄	
				morning set	2637 May 23 14:13	24°♄10'49	
superior conj	2636 Jun 15 09:54	24°♄54'36	0°47'41		2637 May 26 08:50	0°♄	
minimum elong	2636 Jun 15 08:00	24°♄44'06	0°47'19	asc. node	2637 May 28 14:25	4°♄47'59	
max. Earth dist.	2636 Jun 15 05:42	24°♄31'24	1.32139 AU	max. Earth dist.	2637 May 29 16:49	7°♄11'38	1.32240 AU
	2636 Jun 17 17:24	0°♄					
evening rise	2636 Jun 22 06:42	9°♄49'47		superior conj	2637 May 30 20:57	9°♄45'26	0°23'47
	2636 Jul 02 16:21	0°♄		minimum elong	2637 May 30 19:53	9°♄39'36	0°23'33
desc. node	2636 Jul 18 14:31	22°♄49'31		evening rise	2637 Jun 06 17:34	24°♄40'49	
evening max el	2636 Jul 21 13:24	25°♄51'02	26°25'33		2637 Jun 09 06:42	0°♄	
	2636 Jul 26 16:35	0°♄			2637 Jun 27 02:41	0°♄	
retrograde	2636 Aug 04 12:51	3°♄02'35		evening max el	2637 Jul 03 07:08	6°♄56'13	25°09'49
evening set	2636 Aug 11 03:38	1°♄13'21		desc. node	2637 Jul 05 11:31	8°♄53'28	
	2636 Aug 13 04:17	30°♄		retrograde	2637 Jul 17 06:55	14°♄02'24	
min. Earth dist.	2636 Aug 15 02:36	28°♄37'45	0.59639 AU	evening set	2637 Jul 22 19:41	12°♄51'56	
inferior conj	2636 Aug 18 09:50	26°♄03'04	-4°48'55	min. Earth dist.	2637 Jul 27 18:53	10°♄07'46	0.57626 AU
minimum elong	2636 Aug 18 13:41	25°♄55'32	4°48'27	inferior conj	2637 Jul 30 20:11	8°♄03'30	-5°02'10
morning rise	2636 Aug 26 01:49	21°♄28'22		minimum elong	2637 Jul 30 19:40	8°♄04'23	5°02'10
direct	2636 Aug 28 12:07	21°♄07'21		morning rise	2637 Aug 07 22:12	3°♄50'58	
morning max el	2636 Sep 05 04:37	24°♄50'45	18°18'44	direct	2637 Aug 10 11:35	3°♄31'36	
asc. node	2636 Sep 06 16:39	26°♄24'48		morning max el	2637 Aug 19 07:05	7°♄40'09	19°02'46
	2636 Sep 09 12:21	0°♄		asc. node	2637 Aug 24 13:40	13°♄59'40	
morning set	2636 Sep 21 03:24	20°♄13'02			2637 Sep 02 18:46	0°♄	
	2636 Sep 26 07:02	0°♄		morning set	2637 Sep 05 01:16	4°♄26'58	
superior conj	2636 Sep 30 09:30	7°♄37'07	1°27'06				
				superior conj	2637 Sep 13 09:20	20°♄50'38	1°40'49
				minimum elong	2637 Sep 13 11:14	20°♄59'45	1°40'43

































































































































	2637 Sep 18 06:08	0°♎		morning set	2638 Aug 20 05:47	19°♏00'44	
max. Earth dist.	2637 Sep 20 02:54	3°♎23'31	1.38700 AU		2638 Aug 25 14:36	0°♐	
evening rise	2637 Sep 23 23:01	10°♎10'05					
desc. node	2637 Oct 01 10:53	22°♎37'50		superior conj	2638 Aug 27 22:49	4°♐44'49	1°45'17
	2637 Oct 06 04:08	0°♐		minimum elong	2638 Aug 27 22:56	4°♐45'29	1°45'17
	2637 Oct 28 23:44	0°♑		max. Earth dist.	2638 Sep 02 08:24	15°♐20'19	1.36720 AU
evening max el	2637 Oct 29 11:33	0°♑29'30	24°37'58	evening rise	2638 Sep 06 05:20	22°♐33'35	
retrograde	2637 Nov 09 23:22	7°♑11'37			2638 Sep 10 09:52	0°♑	
evening set	2637 Nov 15 11:45	4°♑53'09		desc. node	2638 Sep 18 07:54	13°♑03'41	
	2637 Nov 19 19:50	30°♑♐			2638 Sep 29 22:52	0°♐	
min. Earth dist.	2637 Nov 20 02:46	29°♐37'07	0.67525 AU	evening max el	2638 Oct 11 23:45	14°♐10'42	25°49'22
inferior conj	2637 Nov 20 23:12	28°♐29'05	0°08'52	retrograde	2638 Oct 24 08:48	21°♐14'11	
minimum elong	2637 Nov 20 22:59	28°♐29'48	0°08'47	evening set	2638 Oct 30 11:22	18°♐41'49	
transit middle	2637 Nov 20 22:59	28°♐29'48	0°08'47	min. Earth dist.	2638 Nov 03 18:50	14°♐01'10	0.66866 AU
transit begin	2637 Nov 20 20:40	28°♐37'31		inferior conj	2638 Nov 05 02:16	12°♐21'51	-0°47'48
transit end	2637 Nov 21 01:18	28°♐22'06		minimum elong	2638 Nov 05 03:31	12°♐17'53	0°47'15
asc. node	2637 Nov 20 12:53	29°♐03'29		asc. node	2638 Nov 07 09:55	9°♐32'46	
morning rise	2637 Nov 26 10:17	22°♐27'07		morning rise	2638 Nov 10 19:59	6°♐28'30	
direct	2637 Nov 30 03:03	21°♐08'30		direct	2638 Nov 14 01:42	5°♐28'10	
morning max el	2637 Dec 07 17:53	25°♐29'18	20°02'45	morning max el	2638 Nov 21 00:33	9°♐20'53	19°04'57
	2637 Dec 11 17:04	0°♑			2638 Dec 05 23:59	0°♑	
desc. node	2637 Dec 28 10:08	23°♑58'07		morning set	2638 Dec 13 17:56	12°♑02'25	
	2638 Jan 01 08:51	0°♒		desc. node	2638 Dec 15 07:10	14°♑27'42	
morning set	2638 Jan 03 12:56	3°♒20'35			2638 Dec 25 05:36	0°♒	
max. Earth dist.	2638 Jan 14 11:23	20°♒30'08	1.43919 AU	max. Earth dist.	2638 Dec 28 03:13	4°♒33'38	1.44915 AU
superior conj	2638 Jan 19 21:56	29°♒17'19	-1°58'01	superior conj	2638 Dec 30 10:06	8°♒10'07	-1°31'00
minimum elong	2638 Jan 19 16:36	28°♒55'32	1°57'44	minimum elong	2638 Dec 30 01:07	7°♒34'40	1°30'07
	2638 Jan 20 08:23	0°♓			2639 Jan 13 00:16	0°♓	
evening rise	2638 Feb 01 23:13	21°♓14'08		evening rise	2639 Jan 14 07:09	2°♓06'13	
	2638 Feb 07 01:32	0°♈			2639 Feb 01 07:25	0°♈	
asc. node	2638 Feb 16 12:10	14°♈56'13		asc. node	2639 Feb 03 09:12	2°♈19'50	
evening max el	2638 Feb 19 21:23	18°♈56'39	18°11'42	evening max el	2639 Feb 03 09:22	2°♈20'15	18°33'46
retrograde	2638 Feb 26 08:05	22°♈21'29		retrograde	2639 Feb 09 23:06	5°♈57'45	
evening set	2638 Mar 01 05:12	21°♈38'46		evening set	2639 Feb 13 01:54	5°♈03'15	
inferior conj	2638 Mar 07 08:50	16°♈23'07	3°40'30		2639 Feb 18 10:33	30°♈♐	
minimum elong	2638 Mar 07 09:16	16°♈21'56	3°40'30	inferior conj	2639 Feb 18 20:58	29°♓29'05	3°37'22
min. Earth dist.	2638 Mar 10 01:12	13°♈30'33	0.62960 AU	minimum elong	2639 Feb 18 19:49	29°♓32'30	3°37'17
morning rise	2638 Mar 13 12:17	10°♈20'11		min. Earth dist.	2639 Feb 20 21:47	27°♓04'10	0.64734 AU
direct	2638 Mar 20 10:46	7°♈40'36		morning rise	2639 Feb 24 13:15	23°♓19'53	
desc. node	2638 Mar 26 09:17	9°♈20'41		direct	2639 Mar 03 07:51	20°♓29'05	
morning max el	2638 Apr 03 09:14	15°♈37'15	27°47'24	desc. node	2639 Mar 13 06:20	25°♓05'13	
	2638 Apr 15 03:54	0°♐		morning max el	2639 Mar 16 18:36	28°♓19'04	27°16'01
	2638 May 03 07:06	0°♉			2639 Mar 18 09:26	0°♈	
morning set	2638 May 07 14:03	8°♉23'11			2639 Apr 08 22:31	0°♐	
max. Earth dist.	2638 May 12 23:19	19°♉33'55	1.32753 AU	morning set	2639 Apr 21 05:08	22°♐05'46	
					2639 Apr 25 04:19	0°♉	
superior conj	2638 May 15 05:28	24°♉24'32	-0°02'38	max. Earth dist.	2639 Apr 25 21:29	1°♉27'48	1.33698 AU
minimum elong	2638 May 15 05:35	24°♉25'13	0°02'37				
behind sun begin	2638 May 15 00:25	23°♉57'15		superior conj	2639 Apr 29 09:31	8°♉45'31	-0°30'36
behind sun end	2638 May 15 10:46	24°♉53'13		minimum elong	2639 Apr 29 11:04	8°♉53'44	0°30'17
asc. node	2638 May 15 11:27	24°♉56'52		asc. node	2639 May 02 08:30	15°♉02'35	
	2638 May 17 19:21	0°♊		evening rise	2639 May 06 16:23	24°♉13'56	
evening rise	2638 May 22 05:25	9°♊30'59			2639 May 09 11:27	0°♊	
	2638 Jun 01 19:54	0°♋		evening max el	2639 May 27 13:17	28°♊00'16	22°01'03
evening max el	2638 Jun 14 20:47	17°♋29'30	23°36'30		2639 May 29 18:59	0°♋	
desc. node	2638 Jun 22 08:32	22°♋53'39		retrograde	2639 Jun 09 06:09	4°♋16'37	
retrograde	2638 Jun 28 12:25	24°♋19'46		desc. node	2639 Jun 09 05:33	4°♋16'37	
evening set	2638 Jul 02 13:51	23°♋43'38		evening set	2639 Jun 11 23:50	3°♋59'56	
min. Earth dist.	2638 Jul 09 07:03	20°♋35'34	0.55978 AU	inferior conj	2639 Jun 21 08:42	29°♊54'55	-3°20'11
inferior conj	2638 Jul 11 10:24	19°♋18'42	-4°35'34	minimum elong	2639 Jun 21 00:41	0°♋06'10	3°17'52
minimum elong	2638 Jul 11 04:21	19°♋27'47	4°34'37	min. Earth dist.	2639 Jun 20 18:12	0°♋15'14	0.55019 AU
morning rise	2638 Jul 19 21:25	15°♋22'53			2639 Jun 21 05:04	30°♋♊	
direct	2638 Jul 22 16:05	15°♋03'37		morning rise	2639 Jun 30 03:07	26°♊02'42	
morning max el	2638 Aug 01 22:55	19°♋49'45	20°08'18	direct	2639 Jul 03 05:27	25°♊41'24	
	2638 Aug 09 23:48	0°♌			2639 Jul 13 16:38	0°♋	
asc. node	2638 Aug 11 10:41	2°♌22'02		morning max el	2639 Jul 15 03:15	1°♋15'34	21°33'45

asc. node	2639 Jul 29 07:45	21°☿20'51			2640 Jul 09 09:13	0°☿	
	2639 Aug 02 18:15	0°♊		asc. node	2640 Jul 15 04:48	10°☿46'06	
morning set	2639 Aug 04 14:39	3°♊48'09		morning set	2640 Jul 19 01:50	18°☿42'15	
					2640 Jul 24 08:30	0°♊	
superior conj	2639 Aug 11 21:55	19°♊08'24	1°42'13	superior conj	2640 Jul 26 03:25	3°♊50'38	1°32'59
minimum elong	2639 Aug 11 20:41	19°♊02'01	1°42'09	minimum elong	2640 Jul 26 01:21	3°♊39'34	1°32'47
max. Earth dist.	2639 Aug 15 20:41	27°♊14'28	1.35016 AU	max. Earth dist.	2640 Jul 28 17:50	9°♊22'09	1.33689 AU
	2639 Aug 17 05:50	0°♋		evening rise	2640 Aug 02 18:43	19°♊41'17	
evening rise	2639 Aug 20 05:25	5°♋48'21			2640 Aug 08 04:04	0°♋	
	2639 Sep 03 03:19	0°♌		desc. node	2640 Aug 22 01:56	22°♋54'28	
desc. node	2639 Sep 05 04:56	3°♌12'07			2640 Aug 27 04:54	0°♌	
evening max el	2639 Sep 24 12:10	27°♌48'32	26°45'32	evening max el	2640 Sep 06 00:00	11°♌12'01	27°19'18
	2639 Sep 26 22:16	0°♍		retrograde	2640 Sep 19 11:33	18°♌30'33	
retrograde	2639 Oct 07 13:00	5°♍03'26		evening set	2640 Sep 26 12:49	15°♌48'07	
evening set	2639 Oct 14 04:35	2°♍21'57		min. Earth dist.	2640 Sep 30 06:59	12°♌19'14	0.64493 AU
	2639 Oct 16 16:21	30°♋♌		inferior conj	2640 Oct 02 14:44	9°♌49'24	-2°45'53
min. Earth dist.	2639 Oct 18 04:59	28°♌17'44	0.65860 AU	minimum elong	2640 Oct 02 19:12	9°♌37'23	2°44'18
inferior conj	2639 Oct 20 00:13	26°♌10'29	-1°46'45	morning rise	2640 Oct 09 02:38	4°♌22'24	
minimum elong	2639 Oct 20 03:07	26°♌01'57	1°45'34	asc. node	2640 Oct 11 04:01	3°♌49'11	
asc. node	2639 Oct 25 06:57	20°♌57'35		direct	2640 Oct 11 16:57	3°♌47'40	
morning rise	2639 Oct 26 02:19	20°♌28'46		morning max el	2640 Oct 18 05:02	7°♌14'23	17°58'20
direct	2639 Oct 28 23:09	19°♌43'05			2640 Nov 02 10:51	0°♍	
morning max el	2639 Nov 04 13:10	23°♌18'12	18°23'12	morning set	2640 Nov 04 13:50	3°♍35'26	
	2639 Nov 09 23:07	0°♍					
morning set	2639 Nov 24 01:33	22°♍07'01		superior conj	2640 Nov 18 00:03	25°♍47'19	0°00'21
	2639 Nov 28 23:14	0°♎		minimum elong	2640 Nov 18 00:05	25°♍47'28	0°00'20
desc. node	2639 Dec 02 04:14	5°♎07'10		behind sun begin	2640 Nov 17 13:45	25°♍05'50	
				behind sun end	2640 Nov 18 10:25	26°♍29'02	
superior conj	2639 Dec 09 11:43	16°♎40'30	-0°47'57	desc. node	2640 Nov 18 01:18	25°♍52'23	
minimum elong	2639 Dec 09 05:36	16°♎16'30	0°47'10		2640 Nov 20 15:08	0°♏	
max. Earth dist.	2639 Dec 10 22:23	18°♎56'41	1.45185 AU	max. Earth dist.	2640 Nov 22 17:02	3°♏18'09	1.44708 AU
	2639 Dec 17 23:37	0°♐		evening rise	2640 Dec 04 06:08	21°♏18'22	
evening rise	2639 Dec 25 15:55	12°♐03'08			2640 Dec 09 22:16	0°♐	
greatest brilliancy	2640 Jan 05 02:39	28°♐24'54	-0.8m	greatest brilliancy	2640 Dec 18 16:02	13°♐08'18	-0.6m
	2640 Jan 06 03:22	0°♑		evening max el	2640 Dec 30 22:52	29°♐19'09	20°08'21
evening max el	2640 Jan 17 18:27	15°♑48'39	19°13'12		2640 Dec 31 15:11	0°♑	
asc. node	2640 Jan 21 06:14	18°♑42'39		asc. node	2641 Jan 07 03:16	3°♑50'03	
retrograde	2640 Jan 24 19:01	19°♑49'28		retrograde	2641 Jan 07 16:56	3°♑51'50	
evening set	2640 Jan 28 04:24	18°♑42'21		evening set	2641 Jan 11 10:24	2°♑30'52	
inferior conj	2640 Feb 02 17:47	12°♑51'53	3°19'50		2641 Jan 14 01:41	30°♋♑	
minimum elong	2640 Feb 02 15:38	12°♑58'46	3°19'28	inferior conj	2641 Jan 16 20:25	26°♑26'55	2°51'21
min. Earth dist.	2640 Feb 04 03:22	11°♑04'18	0.66118 AU	minimum elong	2641 Jan 16 17:51	26°♑35'34	2°50'41
morning rise	2640 Feb 08 02:37	6°♑39'24		min. Earth dist.	2641 Jan 17 16:14	25°♑20'13	0.67090 AU
direct	2640 Feb 14 11:25	3°♑50'59		morning rise	2641 Jan 22 01:06	20°♑13'22	
morning max el	2640 Feb 27 04:27	11°♑22'39	26°16'07	direct	2641 Jan 27 20:38	17°♑37'47	
desc. node	2640 Feb 28 03:24	12°♑21'42		morning max el	2641 Feb 08 13:15	24°♑36'43	24°57'04
	2640 Mar 13 01:19	0°♒			2641 Feb 13 09:55	0°♑	
	2640 Mar 31 12:53	0°♓		desc. node	2641 Feb 14 00:29	0°♑43'47	
morning set	2640 Apr 03 07:44	5°♓07'17			2641 Mar 06 12:16	0°♒	
max. Earth dist.	2640 Apr 07 08:22	12°♓49'09	1.35105 AU	morning set	2641 Mar 16 16:51	17°♒14'07	
				max. Earth dist.	2641 Mar 20 08:21	23°♒51'01	1.36937 AU
superior conj	2640 Apr 12 06:43	22°♓41'12	-0°58'54		2641 Mar 23 14:55	0°♓	
minimum elong	2640 Apr 12 09:45	22°♓56'40	0°58'21				
	2640 Apr 15 19:45	0°♈		superior conj	2641 Mar 26 18:09	6°♓04'00	-1°25'39
asc. node	2640 Apr 18 05:33	5°♈00'35		minimum elong	2641 Mar 26 22:19	6°♓24'27	1°25'03
evening rise	2640 Apr 20 00:30	8°♈42'52		evening rise	2641 Apr 04 03:33	22°♓51'27	
	2640 May 01 12:42	0°♉		asc. node	2641 Apr 05 02:36	24°♓46'43	
evening max el	2640 May 08 15:17	8°♉56'43	20°36'15		2641 Apr 07 18:22	0°♈	
retrograde	2640 May 19 19:19	14°♉22'59		evening max el	2641 Apr 21 05:21	20°♈33'23	19°29'05
evening set	2640 May 21 20:53	14°♉12'34		retrograde	2641 Apr 30 15:53	25°♈07'32	
desc. node	2640 May 26 02:35	12°♉53'14		evening set	2641 May 02 16:33	24°♈55'49	
inferior conj	2640 May 31 02:33	10°♉14'50	-1°27'40	inferior conj	2641 May 11 06:35	20°♈50'25	0°29'39
minimum elong	2640 May 30 22:25	10°♉20'48	1°26'10	minimum elong	2641 May 11 07:51	20°♈48'23	0°29'12
min. Earth dist.	2640 Jun 01 06:32	9°♉34'32	0.54982 AU	desc. node	2641 May 12 23:37	19°♈44'12	
morning rise	2640 Jun 08 23:12	6°♉05'55		min. Earth dist.	2641 May 13 21:02	19°♈10'15	0.55900 AU
direct	2640 Jun 12 15:06	5°♉37'01		morning rise	2641 May 19 20:20	16°♈09'16	
morning max el	2640 Jun 25 22:07	12°♉02'13	23°13'10				

direct	2641 May 24 10:24	15°♄21'39		morning rise	2642 Apr 30 04:48	26°♄46'45	
morning max el	2641 Jun 07 12:33	22°♄28'45	24°54'48	direct	2642 May 05 19:51	25°♄28'24	
	2641 Jun 14 04:23	0°♄			2642 May 16 17:34	0°♄	
	2641 Jul 01 19:58	0°♄		morning max el	2642 May 20 04:24	3°♄01'58	26°23'23
asc. node	2641 Jul 02 01:53	0°♄30'32			2642 Jun 08 13:05	0°♄	
morning set	2641 Jul 03 13:39	3°♄37'42		morning set	2642 Jun 18 00:29	18°♄29'04	
				asc. node	2642 Jun 18 22:55	20°♄27'53	
					2642 Jun 23 08:20	0°♄	
superior conj	2641 Jul 10 12:55	18°♄43'33	1°18'39				
minimum elong	2641 Jul 10 10:32	18°♄30'34	1°18'20	superior conj	2642 Jun 25 00:22	3°♄40'17	1°00'03
max. Earth dist.	2641 Jul 11 23:01	21°♄49'06	1.32772 AU	minimum elong	2642 Jun 24 22:10	3°♄28'07	0°59'40
	2641 Jul 15 18:54	0°♄		max. Earth dist.	2642 Jun 25 09:31	4°♄30'41	1.32258 AU
evening rise	2641 Jul 17 17:32	4°♄01'43		evening rise	2642 Jul 01 22:52	18°♄40'15	
	2641 Jul 31 21:18	0°♄			2642 Jul 07 14:20	0°♄	
desc. node	2641 Aug 08 22:56	11°♄59'52		desc. node	2642 Jul 26 19:56	0°♄13'10	
evening max el	2641 Aug 19 09:40	24°♄09'34	27°24'21		2642 Jul 26 15:35	0°♄	
	2641 Aug 27 09:48	0°♄		evening max el	2642 Aug 01 14:39	6°♄28'48	26°56'38
retrograde	2641 Sep 02 03:53	1°♄26'17		retrograde	2642 Aug 15 12:41	13°♄41'36	
	2641 Sep 07 14:11	30°♄		evening set	2642 Aug 22 12:01	11°♄33'41	
evening set	2641 Sep 09 08:44	28°♄54'32		min. Earth dist.	2642 Aug 26 04:54	8°♄54'08	0.60823 AU
min. Earth dist.	2641 Sep 12 23:11	25°♄55'47	0.62789 AU	inferior conj	2642 Aug 29 09:46	6°♄11'26	-4°29'08
inferior conj	2641 Sep 15 19:01	23°♄12'27	-3°41'53	minimum elong	2642 Aug 29 14:51	6°♄00'36	4°28'11
minimum elong	2641 Sep 16 00:29	22°♄59'15	3°40'20	morning rise	2642 Sep 05 19:30	1°♄23'12	
morning rise	2641 Sep 22 17:42	18°♄03'19		direct	2642 Sep 08 05:03	1°♄00'29	
direct	2641 Sep 25 04:10	17°♄36'02		asc. node	2642 Sep 14 22:08	4°♄06'06	
asc. node	2641 Sep 28 01:05	18°♄14'56		morning max el	2642 Sep 15 10:30	4°♄35'08	18°02'56
morning max el	2641 Oct 01 21:10	21°♄02'35	17°51'11	morning set	2642 Oct 01 06:07	29°♄35'33	
	2641 Oct 08 15:25	0°♄			2642 Oct 01 11:23	0°♄	
morning set	2641 Oct 18 01:25	16°♄10'49					
	2641 Oct 25 22:41	0°♄		superior conj	2642 Oct 11 04:46	17°♄46'09	1°14'20
superior conj	2641 Oct 29 13:05	6°♄07'33	0°42'53	minimum elong	2642 Oct 11 09:05	18°♄05'15	1°13'52
minimum elong	2641 Oct 29 16:56	6°♄23'43	0°42'22		2642 Oct 18 06:57	0°♄	
desc. node	2641 Nov 04 22:17	16°♄39'36		max. Earth dist.	2642 Oct 18 19:46	0°♄53'34	1.41888 AU
max. Earth dist.	2641 Nov 05 08:38	17°♄21'30	1.43562 AU	desc. node	2642 Oct 22 19:16	7°♄26'14	
	2641 Nov 13 08:24	0°♄		evening rise	2642 Oct 24 11:37	10°♄08'38	
evening rise	2641 Nov 13 15:04	0°♄25'53			2642 Nov 06 10:41	0°♄	
	2641 Dec 03 14:15	0°♄		evening max el	2642 Nov 26 15:32	26°♄24'02	22°32'59
evening max el	2641 Dec 13 21:47	12°♄50'30	21°16'21		2642 Nov 30 18:22	0°♄	
retrograde	2641 Dec 22 14:34	18°♄00'20		retrograde	2642 Dec 06 10:12	2°♄12'36	
asc. node	2641 Dec 25 00:19	17°♄28'22		evening set	2642 Dec 11 01:23	0°♄19'53	
evening set	2641 Dec 26 17:56	16°♄24'08			2642 Dec 11 10:39	30°♄	
inferior conj	2642 Jan 01 02:28	10°♄09'51	2°14'09	asc. node	2642 Dec 11 21:21	29°♄35'09	
minimum elong	2642 Jan 01 00:01	10°♄18'21	2°13'19	inferior conj	2642 Dec 16 09:59	23°♄58'45	1°29'53
min. Earth dist.	2642 Jan 01 09:59	9°♄43'54	0.67673 AU	minimum elong	2642 Dec 16 08:05	24°♄05'19	1°29'09
morning rise	2642 Jan 06 05:54	3°♄57'05		min. Earth dist.	2642 Dec 16 06:17	24°♄11'34	0.67892 AU
direct	2642 Jan 11 10:42	1°♄41'11		morning rise	2642 Dec 21 14:40	17°♄48'39	
morning max el	2642 Jan 21 21:53	7°♄55'03	23°29'05	direct	2642 Dec 26 04:38	15°♄55'29	
desc. node	2642 Jan 31 21:30	19°♄51'46		morning max el	2643 Jan 04 09:50	21°♄20'21	22°01'49
	2642 Feb 08 03:50	0°♄			2643 Jan 11 18:53	0°♄	
morning set	2642 Feb 26 02:10	28°♄08'24		desc. node	2643 Jan 18 18:32	9°♄32'58	
	2642 Feb 27 04:26	0°♄			2643 Feb 01 10:51	0°♄	
max. Earth dist.	2642 Mar 02 03:04	5°♄05'14	1.39054 AU	morning set	2643 Feb 06 06:43	7°♄39'06	
				max. Earth dist.	2643 Feb 12 00:57	17°♄06'20	1.41198 AU
superior conj	2642 Mar 09 15:50	18°♄43'14	-1°48'15				
minimum elong	2642 Mar 09 20:09	19°♄03'26	1°47'50	superior conj	2643 Feb 19 19:00	0°♄27'16	-2°02'53
	2642 Mar 15 13:55	0°♄		minimum elong	2643 Feb 19 21:30	0°♄38'22	2°02'48
evening rise	2642 Mar 18 22:40	6°♄31'31			2643 Feb 19 12:50	0°♄	
asc. node	2642 Mar 22 23:38	14°♄15'17		evening rise	2643 Mar 02 06:32	19°♄35'13	
	2642 Apr 01 17:07	0°♄			2643 Mar 07 22:51	0°♄	
evening max el	2642 Apr 04 05:48	2°♄48'13	18°41'51	asc. node	2643 Mar 09 20:39	3°♄20'16	
retrograde	2642 Apr 12 05:27	6°♄42'18		evening max el	2643 Mar 18 13:28	15°♄33'03	18°14'42
evening set	2642 Apr 14 11:45	6°♄24'40		retrograde	2643 Mar 25 14:01	19°♄03'56	
inferior conj	2642 Apr 22 06:03	2°♄01'38	2°03'14	evening set	2643 Mar 28 02:31	18°♄37'39	
minimum elong	2642 Apr 22 09:51	1°♄54'29	2°02'07	inferior conj	2643 Apr 04 02:48	13°♄53'37	3°03'31
	2642 Apr 24 22:58	30°♄		minimum elong	2643 Apr 04 06:08	13°♄46'18	3°02'52
min. Earth dist.	2642 Apr 25 14:15	29°♄32'23	0.57573 AU	min. Earth dist.	2643 Apr 07 12:23	10°♄56'14	0.59654 AU
desc. node	2642 Apr 29 20:39	26°♄56'17		morning rise	2643 Apr 11 07:20	8°♄12'44	

desc. node	2643 Apr 16 17:41	6° Υ 21'06		desc. node	2644 Apr 02 14:43	18° X 32'43	
direct	2643 Apr 17 17:53	6° Υ 18'19		morning max el	2644 Apr 13 05:47	25° X 53'52	27°49'57
morning max el	2643 May 02 01:52	14° Υ 06'38	27°24'36		2644 Apr 17 01:15	0° Υ	
	2643 May 14 19:21	0° B			2644 May 07 07:10	0° B	
	2643 May 31 19:38	0° Π		morning set	2644 May 16 12:15	17° B 36'44	
morning set	2643 Jun 02 08:39	3° Π 10'47			2644 May 22 09:09	0° Π	
asc. node	2643 Jun 05 19:56	10° Π 33'11		max. Earth dist.	2644 May 22 07:35	29° B 51'33	1.32408 AU
max. Earth dist.	2643 Jun 08 21:41	17° Π 15'48	1.32137 AU	asc. node	2644 May 22 16:57	0° Π 42'17	
superior conj	2643 Jun 09 12:02	18° Π 34'44	0°37'54	superior conj	2644 May 23 22:14	3° Π 21'30	0°12'50
minimum elong	2643 Jun 09 10:26	18° Π 25'57	0°37'34	minimum elong	2644 May 23 21:38	3° Π 18'16	0°12'42
	2643 Jun 14 17:15	0° B		behind sun begin	2644 May 23 18:32	3° Π 01'21	
evening rise	2643 Jun 16 08:20	3° B 28'49		behind sun end	2644 May 24 00:44	3° Π 35'11	
	2643 Jun 30 12:34	0° Ω		evening rise	2644 May 30 19:52	18° Π 20'40	
desc. node	2643 Jul 13 16:57	17° Ω 12'28			2644 Jun 05 13:14	0° B	
evening max el	2643 Jul 14 12:33	18° Ω 00'12	25°56'25	evening max el	2644 Jun 25 03:44	28° B 48'32	24°31'18
retrograde	2643 Jul 28 12:19	25° Ω 09'16			2644 Jun 26 10:40	0° Ω	
evening set	2643 Aug 03 17:49	23° Ω 36'16		desc. node	2644 Jun 29 13:58	2° Ω 28'33	
min. Earth dist.	2643 Aug 08 00:57	20° Ω 59'24	0.58758 AU	retrograde	2644 Jul 09 01:15	5° Ω 50'08	
inferior conj	2643 Aug 11 07:19	18° Ω 35'32	-4°58'30	evening set	2644 Jul 13 23:48	4° Ω 55'18	
minimum elong	2643 Aug 11 09:38	18° Ω 31'16	4°58'21	min. Earth dist.	2644 Jul 19 14:43	2° Ω 02'46	0.56860 AU
morning rise	2643 Aug 19 03:39	14° Ω 10'24		inferior conj	2644 Jul 22 09:01	0° Ω 16'45	-4°56'35
direct	2643 Aug 21 15:12	13° Ω 50'07		minimum elong	2644 Jul 22 06:04	0° Ω 21'29	4°56'22
morning max el	2643 Aug 29 17:46	17° Ω 42'33	18°34'55		2644 Jul 22 19:27	30° R B	
asc. node	2643 Sep 01 19:10	21° Ω 07'10		morning rise	2644 Jul 30 15:02	26° B 12'51	
	2643 Sep 07 15:36	0° M		direct	2644 Aug 02 06:33	25° B 53'41	
morning set	2643 Sep 14 22:48	13° M 34'28			2644 Aug 11 08:59	0° Ω	
superior conj	2643 Sep 23 18:30	0° B 29'30	1°34'10	morning max el	2644 Aug 11 16:02	0° Ω 16'12	19°28'09
minimum elong	2643 Sep 23 21:27	0° B 43'17	1°33'56	asc. node	2644 Aug 18 16:12	9° Ω 03'40	
	2643 Sep 23 12:12	0° B		morning set	2644 Aug 28 23:50	27° Ω 57'38	
max. Earth dist.	2643 Oct 01 01:58	13° B 43'04	1.39890 AU		2644 Aug 30 00:13	0° M	
evening rise	2643 Oct 05 06:02	20° B 51'24		superior conj	2644 Sep 06 00:45	14° M 02'07	1°43'44
desc. node	2643 Oct 09 16:17	28° B 08'03		minimum elong	2644 Sep 06 01:52	14° M 07'36	1°43'41
	2643 Oct 10 20:14	0° M		max. Earth dist.	2644 Sep 12 05:53	25° M 52'30	1.37830 AU
	2643 Oct 31 13:52	0° A			2644 Sep 14 12:14	0° B	
evening max el	2643 Nov 09 05:25	10° A 00'10	23°52'56	evening rise	2644 Sep 16 00:06	2° B 39'55	
retrograde	2643 Nov 20 02:38	16° A 24'39		desc. node	2644 Sep 25 13:18	18° B 40'59	
evening set	2643 Nov 25 07:07	14° A 15'06			2644 Oct 02 23:22	0° M	
asc. node	2643 Nov 28 18:23	10° A 27'19		evening max el	2644 Oct 21 17:32	23° M 39'19	25°09'36
min. Earth dist.	2643 Nov 30 02:45	8° A 39'48	0.67761 AU		2644 Oct 30 16:04	0° A	
inferior conj	2643 Nov 30 17:10	7° A 50'52	0°39'50	retrograde	2644 Nov 02 14:58	0° A 32'14	
minimum elong	2643 Nov 30 16:14	7° A 54'03	0°39'27		2644 Nov 05 09:28	30° R M	
morning rise	2643 Dec 06 01:20	1° A 45'31		evening set	2644 Nov 08 09:30	28° M 07'07	
direct	2643 Dec 10 01:23	0° A 15'00		min. Earth dist.	2644 Nov 12 21:07	23° M 06'10	0.67287 AU
morning max el	2643 Dec 18 04:27	4° A 56'12	20°42'40	inferior conj	2644 Nov 13 22:15	21° M 44'06	-0°14'47
desc. node	2644 Jan 05 15:33	29° A 37'51		minimum elong	2644 Nov 13 22:37	21° M 42'53	0°14'37
	2644 Jan 05 21:30	0° B		transit middle	2644 Nov 13 22:37	21° M 42'53	0°14'37
morning set	2644 Jan 16 09:55	16° B 01'45		transit begin	2644 Nov 13 21:25	21° M 46'48	
	2644 Jan 25 05:20	0° \approx		transit end	2644 Nov 13 23:50	21° M 38'57	
max. Earth dist.	2644 Jan 25 06:19	0° \approx 04'01	1.43066 AU	asc. node	2644 Nov 14 15:26	20° M 48'19	
superior conj	2644 Jan 31 22:29	11° \approx 04'07	-2°04'44	morning rise	2644 Nov 19 11:57	15° M 45'41	
minimum elong	2644 Jan 31 20:28	10° \approx 55'42	2°04'42	direct	2644 Nov 22 23:42	14° M 35'27	
	2644 Feb 11 21:22	0° X		morning max el	2644 Nov 30 06:59	18° M 43'04	19°36'18
evening rise	2644 Feb 12 23:07	1° X 53'57			2644 Dec 09 05:12	0° A	
asc. node	2644 Feb 24 17:41	21° X 54'05		greatest brilliancy	2644 Dec 13 12:12	6° A 17'02	-0.7m
evening max el	2644 Mar 01 01:05	28° X 38'54	18°07'16	desc. node	2644 Dec 22 12:35	19° A 59'49	
	2644 Mar 02 13:24	0° Υ		morning set	2644 Dec 25 06:48	24° A 15'12	
retrograde	2644 Mar 07 14:04	2° Υ 02'20			2644 Dec 28 23:46	0° B	
evening set	2644 Mar 10 08:03	1° Υ 25'56		max. Earth dist.	2645 Jan 06 18:39	13° B 47'06	1.44424 AU
	2644 Mar 12 17:41	30° R X		superior conj	2645 Jan 10 23:45	20° B 30'24	-1°48'55
inferior conj	2644 Mar 16 18:05	26° X 21'18	3°33'54	minimum elong	2645 Jan 10 16:16	20° B 00'21	1°48'22
minimum elong	2644 Mar 16 19:38	26° X 17'25	3°33'46		2645 Jan 16 20:03	0° \approx	
min. Earth dist.	2644 Mar 19 18:19	23° X 20'30	0.61796 AU	evening rise	2645 Jan 24 20:05	13° \approx 19'22	
morning rise	2644 Mar 23 05:43	20° X 23'58			2645 Feb 03 20:11	0° X	
direct	2644 Mar 30 02:23	17° X 57'46		asc. node	2645 Feb 10 14:43	9° X 46'46	

evening max el	2645 Feb 12 13:41	11°  57'46	18°18'51	greatest brilliancy	2646 Jan 12 17:35	5°  00'35	-0.9m
retrograde	2645 Feb 19 00:50	15°  26'56		evening max el	2646 Jan 27 00:45	25°  24'28	18°48'31
evening set	2645 Feb 22 00:11	14°  39'29		asc. node	2646 Jan 28 11:46	26°  46'45	
inferior conj	2645 Feb 27 23:47	9°  15'43	3°41'13	retrograde	2646 Feb 02 18:17	29°  10'42	
minimum elong	2645 Feb 27 23:29	9°  16'33	3°41'13	evening set	2646 Feb 05 23:41	28°  11'08	
min. Earth dist.	2645 Mar 02 09:39	6°  33'00	0.63753 AU	inferior conj	2646 Feb 11 16:03	22°  30'00	3°31'28
morning rise	2645 Mar 05 21:58	3°  09'18		minimum elong	2646 Feb 11 14:24	22°  35'04	3°31'16
direct	2645 Mar 12 19:34	0°  23'04		min. Earth dist.	2646 Feb 13 10:22	20°  19'51	0.65374 AU
desc. node	2645 Mar 20 11:47	3°  09'40		morning rise	2646 Feb 17 04:43	16°  19'03	
morning max el	2645 Mar 26 14:03	8°  19'05	27°38'03	direct	2646 Feb 23 19:51	13°  27'21	
	2645 Apr 12 08:40	0°  		desc. node	2646 Mar 07 08:50	19°  37'10	
	2645 Apr 29 12:58	0°  		morning max el	2646 Mar 08 23:49	21°  11'41	26°53'24
morning set	2645 Apr 30 08:47	1°  37'52			2646 Mar 16 15:27	0°  	
max. Earth dist.	2645 May 05 10:59	12°  02'45	1.33097 AU		2646 Apr 05 12:20	0°  	
				morning set	2646 Apr 13 19:06	15°  04'42	
superior conj	2645 May 08 05:06	17°  53'36	-0°14'23	max. Earth dist.	2646 Apr 18 04:16	23°  04'10	1.34242 AU
minimum elong	2645 May 08 05:49	17°  57'25	0°14'14		2646 Apr 21 06:31	0°  	
behind sun begin	2645 May 08 03:23	17°  44'26					
behind sun end	2645 May 08 08:14	18°  10'24		superior conj	2646 Apr 22 06:35	2°  04'55	-0°42'40
asc. node	2645 May 09 13:59	20°  50'14		minimum elong	2646 Apr 22 08:46	2°  16'20	0°42'13
	2645 May 13 20:09	0°  		asc. node	2646 Apr 26 11:03	10°  53'09	
evening rise	2645 May 15 07:33	3°  08'14		evening rise	2646 Apr 29 17:34	17°  45'49	
	2645 May 30 01:35	0°  			2646 May 05 20:42	0°  	
evening max el	2645 Jun 06 17:28	9°  16'03	22°55'15	evening max el	2646 May 19 13:32	19°  55'16	21°23'06
desc. node	2645 Jun 16 11:00	15°  25'09		retrograde	2646 May 31 16:06	25°  51'03	
retrograde	2645 Jun 20 01:52	15°  55'05		evening set	2646 Jun 03 00:34	25°  38'23	
evening set	2645 Jun 23 12:10	15°  29'16		desc. node	2646 Jun 03 08:03	25°  34'53	
min. Earth dist.	2645 Jul 01 02:19	12°  07'00	0.55465 AU	inferior conj	2646 Jun 12 10:08	21°  38'51	-2°35'21
inferior conj	2645 Jul 02 15:29	11°  13'19	-4°09'29	minimum elong	2646 Jun 12 03:11	21°  48'35	2°33'03
minimum elong	2645 Jul 02 07:53	11°  24'20	4°07'50	min. Earth dist.	2646 Jun 12 14:07	21°  33'15	0.54888 AU
morning rise	2645 Jul 11 05:59	7°  21'09		morning rise	2646 Jun 21 06:21	17°  41'32	
direct	2645 Jul 14 03:09	7°  20'13		direct	2646 Jun 24 13:33	17°  41'52	
morning max el	2645 Jul 25 03:03	12°  20'29	20°42'30	morning max el	2646 Jul 07 02:50	23°  41'44	22°14'50
asc. node	2645 Aug 05 13:15	27°  42'23			2646 Jul 13 02:15	0°  	
	2645 Aug 06 19:56	0°  		asc. node	2646 Jul 23 10:18	16°  53'04	
morning set	2645 Aug 13 06:25	12°  03'17		morning set	2646 Jul 28 16:26	27°  27'29	
					2646 Jul 29 21:28	0°  	
superior conj	2645 Aug 20 18:45	28°  09'49	1°44'49	superior conj	2646 Aug 04 20:52	12°  04'44	1°38'58
minimum elong	2645 Aug 20 18:15	28°  07'15	1°44'48	minimum elong	2646 Aug 04 19:13	12°  03'01	1°38'52
	2645 Aug 21 16:23	0°  		max. Earth dist.	2646 Aug 08 05:06	19°  40'03	1.34403 AU
max. Earth dist.	2645 Aug 25 13:15	7°  42'41	1.35947 AU	evening rise	2646 Aug 12 20:42	28°  45'29	
evening rise	2645 Aug 29 14:31	15°  26'20			2646 Aug 13 09:24	0°  	
	2645 Sep 06 20:28	0°  		desc. node	2646 Aug 30 07:22	28°  57'53	
desc. node	2645 Sep 12 10:20	8°  59'53			2646 Aug 31 00:01	0°  	
	2645 Sep 27 13:10	0°  		evening max el	2646 Sep 16 18:09	20°  52'38	27°03'14
evening max el	2645 Oct 04 05:40	7°  19'20	26°15'38	retrograde	2646 Sep 30 00:21	28°  09'50	
retrograde	2645 Oct 16 22:29	14°  29'46		evening set	2646 Oct 06 20:27	25°  27'06	
evening set	2645 Oct 23 06:43	11°  25'44		min. Earth dist.	2646 Oct 10 18:07	21°  37'56	0.65312 AU
min. Earth dist.	2645 Oct 27 11:03	7°  27'24	0.66471 AU	inferior conj	2646 Oct 12 18:32	19°  20'28	-2°12'00
inferior conj	2645 Oct 28 23:25	5°  35'31	-1°12'38	minimum elong	2646 Oct 12 22:07	19°  10'15	2°10'37
minimum elong	2645 Oct 29 01:22	5°  29'33	1°11'48	morning rise	2646 Oct 19 00:36	13°  44'18	
asc. node	2645 Nov 01 12:29	1°  35'19		asc. node	2646 Oct 19 09:33	13°  34'05	
	2645 Nov 03 11:47	30°  08'42		direct	2646 Oct 21 18:21	13°  03'41	
morning rise	2645 Nov 03 20:30	29°  46'42		morning max el	2646 Oct 28 06:43	16°  34'26	18°10'29
direct	2645 Nov 06 22:03	28°  53'12			2646 Nov 07 01:37	0°  	
	2645 Nov 10 11:13	0°  		morning set	2646 Nov 15 18:09	14°  10'36	
morning max el	2645 Nov 13 16:29	2°  37'41	18°45'11		2646 Nov 25 11:45	0°  	
	2645 Dec 02 16:59	0°  		desc. node	2646 Nov 26 06:39	1°  15'41	
morning set	2645 Dec 04 21:57	3°  29'14					
desc. node	2645 Dec 09 09:38	10°  27'57		superior conj	2646 Nov 30 08:45	7°  46'05	-0°27'22
max. Earth dist.	2645 Dec 20 11:45	27°  29'17	1.45114 AU	minimum elong	2646 Nov 30 05:16	7°  32'14	0°26'54
				max. Earth dist.	2646 Dec 03 07:02	12°  23'24	1.45069 AU
superior conj	2645 Dec 21 05:10	29°  27'41	-1°14'13		2646 Dec 14 13:35	0°  	
minimum elong	2645 Dec 20 20:37	28°  34'04	1°13'14	evening rise	2646 Dec 16 17:50	3°  23'05	
	2645 Dec 21 18:29	0°  		greatest brilliancy	2646 Dec 29 05:28	22°  37'14	-0.7m
evening rise	2646 Jan 05 18:08	23°  34'27			2647 Jan 03 06:05	0°  	
	2646 Jan 09 14:44	0°  					

evening max el	2647 Jan 10 08:07	8°  54'12	19°34'56			2647 Nov 18 03:22	0° 	
asc. node	2647 Jan 15 08:50	12°  39'14		evening rise		2647 Nov 26 03:48	12°  30'02	
retrograde	2647 Jan 17 15:14	13°  07'13				2647 Dec 07 17:17	0° 	
evening set	2647 Jan 21 03:55	11°  54'19		evening max el		2647 Dec 24 10:15	22°  24'46	20°35'53
inferior conj	2647 Jan 26 15:38	5°  58'00	3°08'55	retrograde		2648 Jan 01 13:13	27°  12'25	
minimum elong	2647 Jan 26 13:14	6°  05'51	3°08'25	asc. node		2648 Jan 02 05:52	27°  09'45	
min. Earth dist.	2647 Jan 27 19:11	4°  27'38	0.66587 AU	evening set		2648 Jan 05 10:47	25°  34'54	
morning rise	2647 Jan 31 22:21	29°  34'50'04		inferior conj		2648 Jan 10 19:57	19°  36'05	2°36'29
	2647 Jan 31 15:52	30°  18'33		minimum elong		2648 Jan 10 17:22	19°  34'53	2°35'44
direct	2647 Feb 07 01:56	27°  00'54		min. Earth dist.		2648 Jan 11 10:17	18°  34'10	0.67388 AU
	2647 Feb 14 11:05	0° 		morning rise		2648 Jan 15 23:48	13°  32'53	
morning max el	2647 Feb 19 09:02	4°  19'43	25°44'11	direct		2648 Jan 21 13:09	10°  35'18	
desc. node	2647 Feb 22 05:53	7°  23'47		morning max el		2648 Feb 01 17:31	17°  35'30	24°20'12
	2647 Mar 11 00:57	0° 		desc. node		2648 Feb 09 02:55	26°  06'45	
morning set	2647 Mar 27 14:56	27°  14'43'33				2648 Feb 12 02:31	0° 	
	2647 Mar 28 20:18	0° 				2648 Mar 03 02:11	0° 	
max. Earth dist.	2647 Mar 31 10:03	4°  15'50'45	1.35844 AU	morning set		2648 Mar 08 14:41	9°  22'06	
				max. Earth dist.		2648 Mar 12 07:16	15°  14'55	1.37820 AU
superior conj	2647 Apr 06 00:04	15°  14'47'54	-1°10'34	superior conj		2648 Mar 19 06:10	28°  18'18	-1°35'56
minimum elong	2647 Apr 06 03:39	16°  05'54	1°09'57	minimum elong		2648 Mar 19 10:35	29°  14'30	1°35'23
	2647 Apr 12 22:59	0° 				2648 Mar 19 20:01	0° 	
asc. node	2647 Apr 13 08:07	0°  46'47		evening rise		2648 Mar 27 23:53	16°  04'29	
evening rise	2647 Apr 13 23:50	2°  06'57		asc. node		2648 Mar 30 05:10	20°  06'08	
	2647 Apr 30 17:53	0° 				2648 Apr 04 08:14	0° 	
evening max el	2647 May 01 20:45	1°  08'37	20°05'15	evening max el		2648 Apr 13 15:29	13°  01'46	19°06'26
retrograde	2647 May 12 06:31	6°  11'24		retrograde		2648 Apr 22 09:57	17°  08'19	
evening set	2647 May 14 06:37	6°  01'00		evening set		2648 Apr 24 12:40	17°  03'30	
desc. node	2647 May 21 05:03	3°  14'29		inferior conj		2648 May 02 18:19	12°  50'53	1°13'17
inferior conj	2647 May 23 06:41	2°  01'43	-0°36'24	minimum elong		2648 May 02 21:06	12°  46'07	1°12'20
minimum elong	2647 May 23 04:59	2°  04'15	0°35'46	min. Earth dist.		2648 May 05 18:17	10°  48'10	0.56537 AU
min. Earth dist.	2647 May 25 03:03	0°  55'29	0.55270 AU	desc. node		2648 May 07 02:06	9°  57'28	
	2647 May 26 17:45	30°  18'38		morning rise		2648 May 11 02:27	7°  54'59	
morning rise	2647 Jun 01 01:38	27°  34'03'39		direct		2648 May 16 03:07	6°  55'53	
direct	2647 Jun 05 02:27	27°  05'11		morning max el		2648 May 30 09:21	14°  15'25	25°35'07
	2647 Jun 13 23:44	0° 				2648 Jun 11 20:38	0° 	
morning max el	2647 Jun 18 18:54	3°  14'49'16	23°56'58	asc. node		2648 Jun 26 04:24	26°  18'10	
	2647 Jul 07 00:15	0° 		morning set		2648 Jun 26 15:45	27°  17'55	
asc. node	2647 Jul 10 07:21	6°  27'32				2648 Jun 27 22:13	0° 	
morning set	2647 Jul 13 04:07	12°  23'13						
superior conj	2647 Jul 20 04:21	27°  29'31	1°27'28	superior conj		2648 Jul 03 14:53	12°  24'51	1°11'16
minimum elong	2647 Jul 20 02:05	27°  17'17	1°27'13	minimum elong		2648 Jul 03 12:32	12°  11'53	1°10'52
	2647 Jul 21 08:16	0° 		max. Earth dist.		2648 Jul 04 14:17	14°  32'58	1.32506 AU
max. Earth dist.	2647 Jul 22 06:16	1°  05'57'52	1.33253 AU	evening rise		2648 Jul 10 16:25	27°  33'53	
evening rise	2647 Jul 27 14:30	13°  04'49				2648 Jul 11 20:53	0° 	
	2647 Aug 05 13:41	0° 				2648 Jul 28 21:19	0° 	
desc. node	2647 Aug 17 04:22	18°  11'26'18		desc. node		2648 Aug 03 01:23	7°  11'48	
	2647 Aug 26 06:01	0° 		evening max el		2648 Aug 11 13:25	16°  49'33	27°16'32
evening max el	2647 Aug 30 05:34	4°  07'35	27°25'20	retrograde		2648 Aug 25 09:08	24°  10'43'1	
retrograde	2647 Sep 12 20:04	11°  04'49		evening set		2648 Sep 01 13:14	21°  10'40'59	
evening set	2647 Sep 19 23:52	8°  04'53'36		min. Earth dist.		2648 Sep 05 03:33	18°  10'52'27	0.61984 AU
min. Earth dist.	2647 Sep 23 16:07	5°  30'25	0.63809 AU	inferior conj		2648 Sep 08 03:58	16°  10'07'16	-4°03'27
inferior conj	2647 Sep 26 05:04	2°  05'34'48	-3°10'18	minimum elong		2648 Sep 08 09:30	15°  10'54'35	4°02'05
minimum elong	2647 Sep 26 10:04	2°  04'05'56	3°08'40	morning rise		2648 Sep 15 07:24	11°  10'06'56	
	2647 Sep 29 04:45	30°  18'38		direct		2648 Sep 17 17:13	10°  10'41'51	
morning rise	2647 Oct 02 21:27	27°  03'33'49		asc. node		2648 Sep 22 03:37	12°  10'09'40	
direct	2647 Oct 05 09:54	27°  02'29		morning max el		2648 Sep 24 14:23	14°  10'10'22	17°53'51
asc. node	2647 Oct 06 06:35	27°  06'13				2648 Oct 05 10:24	0° 	
	2647 Oct 11 11:28	0° 		morning set		2648 Oct 10 12:41	9°  07'57	
morning max el	2647 Oct 11 23:02	0°  07'54	17°53'05					
morning set	2647 Oct 28 17:10	26°  01'07		superior conj		2648 Oct 21 07:19	28°  01'15'31	0°57'42
	2647 Oct 30 22:36	0° 		minimum elong		2648 Oct 21 11:41	28°  01'34'19	0°57'08
superior conj	2647 Nov 10 06:37	17°  11'21'09	0°19'34			2648 Oct 22 07:42	0° 	
minimum elong	2647 Nov 10 08:43	17°  11'29'46	0°19'16	max. Earth dist.		2648 Oct 28 15:11	10°  11'32'46	1.42902 AU
desc. node	2647 Nov 13 03:41	22°  11'01'57		desc. node		2648 Oct 30 00:41	12°  11'49'06	
max. Earth dist.	2647 Nov 16 01:15	26°  11'41'04	1.44301 AU	evening rise		2648 Nov 04 15:44	21°  11'47'04	
						2648 Nov 09 23:20	0° 	

	2648 Dec 01 02:23	0°♁		desc. node	2649 Oct 16 21:41	3°♊33'57	
evening max el	2648 Dec 06 06:42	5°♁55'59 21°48'10			2649 Nov 03 09:09	0°♊	
retrograde	2648 Dec 15 10:17	11°♁22'46		evening max el	2649 Nov 18 22:26	19°♊29'37 23°07'03	
asc. node	2648 Dec 19 02:53	10°♁08'28		retrograde	2649 Nov 29 04:49	25°♊34'50	
evening set	2648 Dec 19 18:29	9°♁39'28		evening set	2649 Dec 04 01:23	23°♊35'02	
inferior conj	2648 Dec 25 02:51	3°♁21'34 1°56'08		asc. node	2649 Dec 05 23:54	21°♊39'34	
minimum elong	2648 Dec 25 00:35	3°♁29'26 1°55'20		inferior conj	2649 Dec 09 10:26	17°♊11'52 1°09'16	
min. Earth dist.	2648 Dec 25 05:25	3°♁12'40 0.67802 AU		minimum elong	2649 Dec 09 08:54	17°♊17'10 1°08'40	
	2648 Dec 27 14:57	30°♊		min. Earth dist.	2649 Dec 09 02:09	17°♊40'22 0.67868 AU	
morning rise	2648 Dec 30 06:31	27°♊09'41		morning rise	2649 Dec 14 16:19	11°♊03'18	
direct	2649 Jan 04 04:49	25°♊03'33		direct	2649 Dec 19 00:07	9°♊19'57	
	2649 Jan 13 04:06	0°♁		morning max el	2649 Dec 27 17:43	14°♊25'52 21°26'48	
morning max el	2649 Jan 14 03:17	0°♁56'51 22°51'29			2650 Jan 09 03:01	0°♁	
desc. node	2649 Jan 25 23:56	15°♁29'58		desc. node	2650 Jan 12 20:57	5°♁21'48	
	2649 Feb 05 00:47	0°♊		morning set	2650 Jan 28 04:40	28°♁38'47	
morning set	2649 Feb 17 12:14	19°♊41'54			2650 Jan 29 01:09	0°♊	
max. Earth dist.	2649 Feb 22 02:40	27°♊26'56 1.39972 AU		max. Earth dist.	2650 Feb 04 02:52	9°♊49'29 1.42032 AU	
	2649 Feb 23 14:08	0°♊					
superior conj	2649 Mar 01 20:37	11°♊10'28 -1°55'41		superior conj	2650 Feb 11 14:14	22°♊26'33 -2°05'34	
minimum elong	2649 Mar 02 00:29	11°♊28'06 1°55'26		minimum elong	2650 Feb 11 15:09	22°♊30'30 2°05'33	
evening rise	2649 Mar 11 14:44	29°♊30'31			2650 Feb 15 21:38	0°♊	
	2649 Mar 11 20:55	0°♊		evening rise	2650 Feb 22 16:35	12°♊15'31	
asc. node	2649 Mar 17 02:12	9°♊45'49		asc. node	2650 Mar 03 23:14	28°♊38'23	
evening max el	2649 Mar 27 19:24	25°♊30'37 18°27'52			2650 Mar 04 19:35	0°♊	
retrograde	2649 Apr 04 08:00	29°♊13'12		evening max el	2650 Mar 11 05:10	8°♊25'20 18°09'17	
evening set	2649 Apr 06 16:50	28°♊52'17		retrograde	2650 Mar 17 23:32	11°♊51'08	
inferior conj	2649 Apr 14 03:06	24°♊20'31 2°32'46		evening set	2650 Mar 20 14:24	11°♊20'46	
minimum elong	2649 Apr 14 06:58	24°♊12'43 2°31'48		inferior conj	2650 Mar 27 08:11	6°♊28'13 3°19'36	
min. Earth dist.	2649 Apr 17 13:35	21°♊36'09 0.58421 AU		minimum elong	2650 Mar 27 10:50	6°♊22'04 3°19'13	
morning rise	2649 Apr 21 18:08	18°♊52'57		min. Earth dist.	2650 Mar 30 14:55	3°♊26'08 0.60571 AU	
desc. node	2649 Apr 23 23:07	17°♊57'04		morning rise	2650 Apr 03 05:11	0°♊39'16	
direct	2649 Apr 27 18:13	17°♊19'26			2650 Apr 04 07:49	30°♊	
morning max el	2649 May 12 03:36	25°♊01'10 26°53'24		direct	2650 Apr 09 21:24	28°♊29'52	
	2649 May 16 17:50	0°♁		desc. node	2650 Apr 10 20:09	28°♊32'23	
	2649 Jun 05 00:50	0°♊			2650 Apr 15 17:53	0°♊	
morning set	2649 Jun 11 01:42	12°♊06'18		morning max el	2650 Apr 24 03:48	6°♊22'58 27°39'54	
asc. node	2649 Jun 13 01:27	16°♊19'45			2650 May 11 21:51	0°♁	
				morning set	2650 May 26 08:10	26°♁41'55	
superior conj	2649 Jun 18 02:40	27°♊21'39 0°51'05			2650 May 27 22:07	0°♊	
minimum elong	2649 Jun 18 00:40	27°♊10'38 0°50'41		asc. node	2650 May 30 22:30	6°♊27'10	
max. Earth dist.	2649 Jun 18 01:54	27°♊17'21 1.32158 AU		max. Earth dist.	2650 Jun 01 13:22	9°♊58'53 1.32201 AU	
	2649 Jun 19 07:26	0°♁					
evening rise	2649 Jun 24 23:47	12°♁17'33		superior conj	2650 Jun 02 13:57	12°♊13'36 0°27'36	
	2649 Jul 04 00:30	0°♊		minimum elong	2650 Jun 02 12:44	12°♊06'56 0°27'20	
desc. node	2649 Jul 20 22:23	24°♊56'42		evening rise	2650 Jun 09 10:22	27°♊08'10	
evening max el	2649 Jul 24 15:20	28°♊48'04 26°34'33			2650 Jun 10 19:02	0°♁	
	2649 Jul 25 22:46	0°♊			2650 Jun 27 21:53	0°♊	
retrograde	2649 Aug 07 14:36	6°♊00'10		evening max el	2650 Jul 06 10:12	10°♊00'12 25°22'36	
evening set	2649 Aug 14 07:58	4°♊05'46		desc. node	2650 Jul 07 19:24	11°♊16'21	
min. Earth dist.	2649 Aug 18 04:53	1°♊29'40 0.59946 AU		retrograde	2650 Jul 20 10:14	17°♊07'12	
	2649 Aug 20 02:14	30°♊		evening set	2650 Jul 26 03:40	15°♊51'01	
inferior conj	2649 Aug 21 11:48	28°♊52'14 -4°44'30		min. Earth dist.	2650 Jul 30 22:11	13°♊09'11 0.57911 AU	
minimum elong	2649 Aug 21 16:03	28°♊43'41 4°43'54		inferior conj	2650 Aug 03 01:12	10°♊59'23 -5°02'26	
morning rise	2649 Aug 29 02:12	24°♊14'01		minimum elong	2650 Aug 03 01:30	10°♊58'51 5°02'26	
direct	2649 Aug 31 12:09	23°♊52'41		morning rise	2650 Aug 11 01:45	6°♊43'33	
morning max el	2649 Sep 08 01:36	27°♊33'36 18°13'59		direct	2650 Aug 13 14:36	6°♊23'58	
asc. node	2649 Sep 09 00:38	28°♊32'15		morning max el	2650 Aug 22 05:25	10°♊28'05 18°54'51	
	2649 Sep 10 07:21	0°♊		asc. node	2650 Aug 26 21:41	15°♊58'48	
morning set	2649 Sep 23 22:58	22°♊48'07			2650 Sep 04 05:10	0°♊	
	2649 Sep 27 18:20	0°♊		morning set	2650 Sep 07 19:39	6°♊58'46	
superior conj	2649 Oct 03 09:03	10°♊23'28 1°24'07		superior conj	2650 Sep 16 06:30	23°♊29'51 1°39'22	
minimum elong	2649 Oct 03 12:55	10°♊40'59 1°23'44		minimum elong	2650 Sep 16 08:40	23°♊40'14 1°39'14	
max. Earth dist.	2649 Oct 10 23:32	23°♊44'59 1.41059 AU			2650 Sep 19 17:28	0°♊	
	2649 Oct 14 17:14	0°♊		max. Earth dist.	2650 Sep 23 04:04	6°♊15'31 1.39009 AU	
evening rise	2649 Oct 15 20:48	1°♊52'55		evening rise	2650 Sep 27 01:36	13°♊05'01	
				desc. node	2650 Oct 03 18:43	24°♊12'55	

	2650 Oct 07 10:55	0°♌			2651 Sep 11 19:52	0°♎	
	2650 Oct 29 12:03	0°♏		desc. node	2651 Sep 20 15:46	14°♎40'49	
evening max el	2650 Nov 01 11:29	3°♏07'59	24°26'27		2651 Oct 01 00:29	0°♌	
retrograde	2650 Nov 12 19:35	9°♏45'36		evening max el	2651 Oct 14 23:42	16°♌48'55	25°39'25
evening set	2650 Nov 18 05:54	7°♏29'29		retrograde	2651 Oct 27 05:47	23°♌49'44	
asc. node	2650 Nov 22 20:55	2°♏12'25		evening set	2651 Nov 02 06:20	21°♌19'05	
min. Earth dist.	2650 Nov 22 22:08	2°♏08'23	0.67600 AU	min. Earth dist.	2651 Nov 06 14:51	16°♌33'12	0.66991 AU
inferior conj	2650 Nov 23 16:58	1°♏05'18	0°17'11	inferior conj	2651 Nov 07 20:38	14°♌58'14	-0°38'58
minimum elong	2650 Nov 23 16:33	1°♏06'43	0°17'00	minimum elong	2651 Nov 07 21:39	14°♌55'01	0°38'32
	2650 Nov 24 12:35	30°♌		asc. node	2651 Nov 09 17:58	12°♌37'40	
morning rise	2650 Nov 29 03:14	25°♌02'20		morning rise	2651 Nov 13 13:16	9°♌03'35	
direct	2650 Dec 02 21:52	23°♌40'38		direct	2651 Nov 16 20:31	8°♌00'46	
morning max el	2650 Dec 10 15:35	28°♌06'13	20°12'37	morning max el	2651 Nov 23 21:16	11°♌56'50	19°12'34
	2650 Dec 12 10:10	0°♏			2651 Dec 07 05:42	0°♏	
desc. node	2650 Dec 30 18:00	25°♏34'47		morning set	2651 Dec 17 04:11	15°♏20'20	
	2651 Jan 02 15:50	0°♏		desc. node	2651 Dec 17 15:02	16°♏02'32	
morning set	2651 Jan 07 01:56	6°♏47'28			2651 Dec 26 13:45	0°♏	
max. Earth dist.	2651 Jan 17 11:12	23°♏07'27	1.43722 AU	max. Earth dist.	2651 Dec 31 02:30	7°♏07'14	1.44813 AU
	2651 Jan 21 17:14	0°♏					
				superior conj	2652 Jan 02 21:51	11°♏33'33	-1°36'17
superior conj	2651 Jan 23 06:34	2°♏32'54	-2°00'25	minimum elong	2652 Jan 02 13:03	10°♏58'41	1°35'29
minimum elong	2651 Jan 23 02:05	2°♏14'30	2°00'12		2652 Jan 14 08:34	0°♏	
evening rise	2651 Feb 05 01:17	24°♏11'43		evening rise	2652 Jan 17 12:44	5°♏12'54	
	2651 Feb 08 09:36	0°♏			2652 Feb 02 02:47	0°♏	
asc. node	2651 Feb 18 20:16	16°♏55'38		asc. node	2652 Feb 05 17:17	4°♏27'22	
evening max el	2651 Feb 22 17:36	21°♏37'24	18°09'58	evening max el	2652 Feb 06 05:50	5°♏00'05	18°29'18
retrograde	2651 Mar 01 04:31	25°♏01'22		retrograde	2652 Feb 12 18:38	8°♏35'06	
evening set	2651 Mar 04 00:53	24°♏20'14		evening set	2652 Feb 15 20:31	7°♏42'27	
inferior conj	2651 Mar 10 06:02	19°♏07'19	3°39'24	inferior conj	2652 Feb 21 16:39	2°♏10'47	3°38'54
minimum elong	2651 Mar 10 06:46	19°♏05'24	3°39'22	minimum elong	2652 Feb 21 15:42	2°♏13'33	3°38'49
min. Earth dist.	2651 Mar 13 00:32	16°♏12'05	0.62669 AU		2652 Feb 23 13:09	30°♌	
morning rise	2651 Mar 16 11:30	13°♏05'44		min. Earth dist.	2652 Feb 23 19:46	29°♏40'57	0.64490 AU
direct	2651 Mar 23 09:49	10°♏29'15		morning rise	2652 Feb 27 10:20	26°♏02'09	
desc. node	2651 Mar 28 17:12	11°♏49'10		direct	2652 Mar 05 05:53	23°♏12'13	
morning max el	2651 Apr 06 09:35	18°♏25'42	27°49'16	desc. node	2652 Mar 14 14:15	27°♏17'23	
	2651 Apr 16 03:23	0°♏			2652 Mar 17 16:41	0°♏	
	2651 May 04 17:47	0°♏		morning max el	2652 Mar 18 18:53	1°♏04'07	27°22'47
morning set	2651 May 10 09:05	10°♏57'43			2652 Apr 09 05:35	0°♏	
max. Earth dist.	2651 May 15 20:56	22°♏24'59	1.32647 AU	morning set	2652 Apr 23 01:44	24°♏45'40	
					2652 Apr 25 16:57	0°♏	
superior conj	2651 May 17 22:58	26°♏54'35	0°01'31	max. Earth dist.	2652 Apr 27 20:41	4°♏24'14	1.33526 AU
minimum elong	2651 May 17 22:54	26°♏54'12	0°01'30				
behind sun begin	2651 May 17 17:43	26°♏26'08		superior conj	2652 May 01 03:51	11°♏18'48	-0°26'19
behind sun end	2651 May 18 04:05	27°♏22'19		minimum elong	2652 May 01 05:11	11°♏25'51	0°26'01
asc. node	2651 May 17 19:32	26°♏36'00		asc. node	2652 May 03 16:37	16°♏42'32	
	2651 May 19 09:07	0°♏		evening rise	2652 May 08 09:27	26°♏43'24	
evening rise	2651 May 24 22:12	11°♏58'50			2652 May 09 23:11	0°♏	
	2651 Jun 03 02:15	0°♏			2652 May 28 13:43	0°♏	
evening max el	2651 Jun 18 00:07	20°♏36'38	23°50'57	evening max el	2652 May 29 15:36	1°♏05'20	22°14'50
desc. node	2651 Jun 24 16:27	25°♏37'47		desc. node	2652 Jun 10 13:28	7°♏26'11	
retrograde	2651 Jul 01 17:35	27°♏30'14		retrograde	2652 Jun 11 13:01	7°♏28'24	
evening set	2651 Jul 06 00:37	26°♏49'40		evening set	2652 Jun 14 10:35	7°♏09'47	
min. Earth dist.	2651 Jul 12 10:34	23°♏46'07	0.56187 AU	min. Earth dist.	2652 Jun 22 21:42	3°♏31'25	0.55105 AU
inferior conj	2651 Jul 14 18:22	22°♏21'21	-4°42'45	inferior conj	2652 Jun 23 18:28	3°♏02'10	-3°34'39
minimum elong	2651 Jul 14 13:03	22°♏29'27	4°42'01	minimum elong	2652 Jun 23 10:21	3°♏13'37	3°32'26
morning rise	2651 Jul 23 04:06	18°♏23'50			2652 Jun 29 19:52	30°♌	
direct	2651 Jul 25 22:00	18°♏04'35		morning rise	2652 Jul 02 12:00	29°♏10'43	
morning max el	2651 Aug 04 22:59	22°♏44'05	19°57'13	direct	2652 Jul 05 12:49	28°♏50'04	
	2651 Aug 11 00:56	0°♏			2652 Jul 10 22:42	0°♏	
asc. node	2651 Aug 13 18:45	4°♏14'47		morning max el	2652 Jul 17 05:03	4°♏16'33	21°19'56
morning set	2651 Aug 22 23:23	21°♏30'11		asc. node	2652 Jul 30 15:50	23°♏08'40	
	2651 Aug 27 03:25	0°♏			2652 Aug 03 05:49	0°♏	
				morning set	2652 Aug 06 07:43	6°♏15'43	
superior conj	2651 Aug 30 18:16	7°♏18'53	1°45'07				
minimum elong	2651 Aug 30 18:39	7°♏20'47	1°45'07	superior conj	2652 Aug 13 16:09	21°♏38'38	1°43'05
max. Earth dist.	2651 Sep 05 09:11	18°♏15'38	1.37002 AU	minimum elong	2652 Aug 13 15:06	21°♏33'11	1°43'04
evening rise	2651 Sep 09 04:54	25°♏19'46			2652 Aug 17 18:30	0°♏	

max. Earth dist.	2652 Aug 17 20:05	0° \mathbb{M} 07'55	1.35247 AU	max. Earth dist.	2653 Jul 31 15:41	12° \mathcal{Q} 11'44	1.33858 AU
evening rise	2652 Aug 22 02:36	8° \mathbb{M} 27'20		evening rise	2653 Aug 05 14:09	22° \mathcal{Q} 14'59	
	2652 Sep 03 10:19	0° \mathcal{L}			2653 Aug 09 14:55	0° \mathbb{M}	
desc. node	2652 Sep 06 12:47	4° \mathcal{L} 52'01		desc. node	2653 Aug 24 09:48	24° \mathbb{M} 38'49	
	2652 Sep 26 00:52	0° \mathbb{M}			2653 Aug 28 04:25	0° \mathcal{L}	
evening max el	2652 Sep 26 11:56	0° \mathbb{M} 26'56	26°38'22	evening max el	2653 Sep 08 23:57	13° \mathcal{L} 53'20	27°16'02
retrograde	2652 Oct 09 10:49	7° \mathbb{M} 41'07		retrograde	2653 Sep 22 10:24	21° \mathcal{L} 12'01	
evening set	2652 Oct 16 00:39	5° \mathbb{M} 00'25		evening set	2653 Sep 29 10:26	18° \mathcal{L} 29'09	
min. Earth dist.	2652 Oct 20 02:01	0° \mathbb{M} 50'49	0.66033 AU	min. Earth dist.	2653 Oct 03 05:24	14° \mathcal{L} 55'07	0.64715 AU
	2652 Oct 20 19:11	30° \mathbb{R} \mathcal{L}		inferior conj	2653 Oct 05 11:17	12° \mathcal{L} 28'08	-2°37'05
inferior conj	2652 Oct 21 19:30	28° \mathcal{L} 47'17	-1°37'44	minimum elong	2653 Oct 05 15:32	12° \mathcal{L} 16'31	2°35'31
minimum elong	2652 Oct 21 22:08	28° \mathcal{L} 39'25	1°36'39	morning rise	2653 Oct 11 21:39	6° \mathcal{L} 58'40	
asc. node	2652 Oct 26 15:02	23° \mathcal{L} 50'43		asc. node	2653 Oct 13 12:05	6° \mathcal{L} 28'08	
morning rise	2652 Oct 27 20:15	23° \mathcal{L} 03'44		direct	2653 Oct 14 12:43	6° \mathcal{L} 22'35	
direct	2652 Oct 30 18:12	22° \mathcal{L} 16'13		morning max el	2653 Oct 21 00:43	9° \mathcal{L} 50'12	18°00'53
morning max el	2652 Nov 06 09:10	25° \mathcal{L} 53'25	18°28'20		2653 Nov 03 19:04	0° \mathbb{M}	
	2652 Nov 09 21:48	0° \mathbb{M}		morning set	2653 Nov 07 15:36	6° \mathbb{M} 27'52	
morning set	2652 Nov 26 07:18	25° \mathbb{M} 10'58		desc. node	2653 Nov 20 09:04	27° \mathbb{M} 24'41	
	2652 Nov 29 07:30	0° \mathcal{X}					
desc. node	2652 Dec 03 12:03	6° \mathcal{X} 40'21		superior conj	2653 Nov 21 09:13	29° \mathbb{M} 01'34	-0°06'50
				minimum elong	2653 Nov 21 08:23	28° \mathbb{M} 58'15	0°06'43
superior conj	2652 Dec 11 23:41	20° \mathcal{X} 03'21	-0°55'06	behind sun begin	2653 Nov 20 22:44	28° \mathbb{M} 19'31	
minimum elong	2652 Dec 11 16:46	19° \mathcal{X} 36'12	0°54'14	behind sun end	2653 Nov 21 18:03	29° \mathbb{M} 36'56	
max. Earth dist.	2652 Dec 12 21:07	21° \mathcal{X} 27'30	1.45189 AU		2653 Nov 21 23:49	0° \mathcal{X}	
	2652 Dec 18 07:47	0° \mathcal{Z}		max. Earth dist.	2653 Nov 25 15:51	5° \mathcal{X} 49'38	1.44824 AU
evening rise	2652 Dec 28 00:50	15° \mathcal{Z} 17'18		evening rise	2653 Dec 07 17:07	24° \mathcal{X} 36'48	
	2653 Jan 06 08:42	0° \approx			2653 Dec 11 05:08	0° \mathcal{Z}	
greatest brilliancy	2653 Jan 06 17:23	0° \approx 33'51	-0.8m	greatest brilliancy	2653 Dec 21 19:57	16° \mathcal{Z} 04'34	-0.6m
evening max el	2653 Jan 19 15:26	18° \approx 27'51	19°06'17		2654 Jan 01 01:32	0° \approx	
asc. node	2653 Jan 22 14:19	21° \approx 00'18		evening max el	2654 Jan 02 20:39	1° \approx 58'13	19°59'16
retrograde	2653 Jan 26 14:01	22° \approx 24'47		asc. node	2654 Jan 09 11:21	6° \approx 19'55	
evening set	2653 Jan 29 22:18	21° \approx 19'42		retrograde	2654 Jan 10 11:45	6° \approx 25'37	
inferior conj	2653 Feb 04 12:22	15° \approx 31'33	3°23'17	evening set	2654 Jan 14 03:53	5° \approx 06'52	
minimum elong	2653 Feb 04 10:20	15° \approx 38'00	3°22'56		2654 Jan 18 21:44	30° \mathbb{R} \mathcal{Z}	
min. Earth dist.	2653 Feb 06 00:11	13° \approx 37'54	0.65935 AU	inferior conj	2654 Jan 19 14:17	29° \mathcal{Z} 04'53	2°56'14
morning rise	2653 Feb 09 22:04	9° \approx 19'17		minimum elong	2654 Jan 19 11:45	29° \mathcal{Z} 13'22	2°55'37
direct	2653 Feb 16 08:35	6° \approx 29'37		min. Earth dist.	2654 Jan 20 12:05	27° \mathcal{Z} 51'53	0.66973 AU
morning max el	2653 Mar 01 04:48	14° \approx 05'21	26°26'30	morning rise	2654 Jan 24 19:24	22° \mathcal{Z} 51'22	
desc. node	2653 Mar 01 11:18	14° \approx 21'48		direct	2654 Jan 30 17:07	20° \mathcal{Z} 13'12	
	2653 Mar 14 03:45	0° \mathcal{H}		morning max el	2654 Feb 11 13:38	27° \mathcal{Z} 17'53	25°09'35
	2653 Apr 01 23:03	0° \mathbb{Y}			2654 Feb 14 02:33	0° \approx	
morning set	2653 Apr 06 06:27	7° \mathbb{Y} 54'04		desc. node	2654 Feb 16 08:18	2° \approx 35'01	
max. Earth dist.	2653 Apr 10 09:13	15° \mathbb{Y} 49'30	1.34865 AU		2654 Mar 07 19:36	0° \mathcal{H}	
				morning set	2654 Mar 19 18:28	20° \mathcal{H} 09'45	
superior conj	2653 Apr 15 02:13	25° \mathbb{Y} 18'29	-0°54'39	max. Earth dist.	2654 Mar 23 10:22	26° \mathcal{H} 51'36	1.36644 AU
minimum elong	2653 Apr 15 05:02	25° \mathbb{Y} 32'57	0°54'08		2654 Mar 25 02:28	0° \mathbb{Y}	
	2653 Apr 17 08:40	0° \mathcal{B}					
asc. node	2653 Apr 20 13:38	6° \mathcal{B} 41'45		superior conj	2654 Mar 29 15:17	8° \mathbb{Y} 46'36	-1°21'48
evening rise	2653 Apr 22 18:07	11° \mathcal{B} 14'30		minimum elong	2654 Mar 29 19:19	9° \mathbb{Y} 06'33	1°21'12
	2653 May 02 15:15	0° \mathbb{I}		evening rise	2654 Apr 06 22:01	25° \mathbb{Y} 26'13	
evening max el	2653 May 11 15:53	11° \mathbb{I} 56'17	20°47'51	asc. node	2654 Apr 07 10:40	26° \mathbb{Y} 29'48	
retrograde	2653 May 23 02:09	17° \mathbb{I} 30'31			2654 Apr 09 04:52	0° \mathcal{B}	
evening set	2653 May 25 04:50	17° \mathbb{I} 19'50		evening max el	2654 Apr 24 04:11	23° \mathcal{B} 26'42	19°37'49
desc. node	2653 May 28 10:31	16° \mathbb{I} 25'38		retrograde	2654 May 03 20:32	28° \mathcal{B} 07'46	
inferior conj	2653 Jun 03 11:59	13° \mathbb{I} 22'09	-1°45'53	evening set	2654 May 05 20:48	27° \mathcal{B} 56'32	
minimum elong	2653 Jun 03 07:01	13° \mathbb{I} 29'15	1°44'06	inferior conj	2654 May 14 13:39	23° \mathcal{B} 53'13	0°13'00
min. Earth dist.	2653 Jun 04 09:56	12° \mathbb{I} 50'50	0.54924 AU	minimum elong	2654 May 14 14:13	23° \mathcal{B} 52'19	0°12'46
morning rise	2653 Jun 12 08:46	9° \mathbb{I} 16'44		transit middle	2654 May 14 14:13	23° \mathcal{B} 52'19	0°12'46
direct	2653 Jun 15 22:03	8° \mathbb{I} 49'31		transit begin	2654 May 14 11:51	23° \mathcal{B} 56'02	
morning max el	2653 Jun 29 01:03	15° \mathbb{I} 07'48	22°57'53	transit end	2654 May 14 16:34	23° \mathcal{B} 48'36	
	2653 Jul 10 14:22	0° \mathcal{E}		desc. node	2654 May 15 07:32	23° \mathcal{B} 24'55	
asc. node	2653 Jul 17 12:53	12° \mathcal{E} 30'03		min. Earth dist.	2654 May 16 24:00	22° \mathcal{B} 21'30	0.55712 AU
morning set	2653 Jul 21 18:38	21° \mathcal{E} 08'39		morning rise	2654 May 23 05:01	19° \mathcal{B} 17'22	
	2653 Jul 25 22:19	0° \mathcal{Q}		direct	2654 May 27 15:36	18° \mathcal{B} 33'12	
				morning max el	2654 Jun 10 15:36	25° \mathcal{B} 34'57	24°40'09
superior conj	2653 Jul 28 20:51	6° \mathcal{Q} 18'16	1°34'44		2654 Jun 14 19:11	0° \mathbb{I}	
minimum elong	2653 Jul 28 18:52	6° \mathcal{Q} 07'44	1°34'34		2654 Jul 03 08:08	0° \mathcal{E}	

asc. node	2654 Jul 04 09:55	2°♊11'40			2655 Jun 09 20:25	0°♊	
morning set	2654 Jul 06 06:25	6°♊03'54		morning set	2655 Jun 20 17:31	20°♊56'36	
				asc. node	2655 Jun 21 06:58	22°♊07'43	
superior conj	2654 Jul 13 05:51	21°♊09'45	1°21'08		2655 Jun 24 22:25	0°♊	
minimum elong	2654 Jul 13 03:29	20°♊56'52	1°20'48				
max. Earth dist.	2654 Jul 14 19:51	24°♊35'57	1.32882 AU	superior conj	2655 Jun 27 17:08	6°♊06'35	1°03'09
	2654 Jul 17 08:24	0°♊		minimum elong	2655 Jun 27 14:52	5°♊54'07	1°02'45
evening rise	2654 Jul 20 11:44	6°♊31'51		max. Earth dist.	2655 Jun 28 05:55	7°♊16'52	1.32310 AU
	2654 Aug 02 03:56	0°♊		evening rise	2655 Jul 04 16:18	21°♊08'36	
desc. node	2654 Aug 11 06:50	13°♊50'41			2655 Jul 09 01:24	0°♊	
evening max el	2654 Aug 22 10:12	26°♊55'57	27°25'44		2655 Jul 27 09:53	0°♊	
	2654 Aug 25 23:57	0°♊		desc. node	2655 Jul 29 03:51	2°♊13'19	
retrograde	2654 Sep 05 03:37	4°♊12'51		evening max el	2655 Aug 04 16:05	9°♊21'50	27°02'53
evening set	2654 Sep 12 08:24	1°♊38'52		retrograde	2655 Aug 18 13:27	16°♊34'53	
	2654 Sep 14 10:22	30°♊		evening set	2655 Aug 25 14:27	14°♊22'36	
min. Earth dist.	2654 Sep 15 23:12	28°♊36'03	0.63059 AU	min. Earth dist.	2655 Aug 29 06:22	11°♊41'13	0.61129 AU
inferior conj	2654 Sep 18 17:16	25°♊54'08	-3°33'53	inferior conj	2655 Sep 01 10:15	8°♊57'25	-4°22'55
minimum elong	2654 Sep 18 22:39	25°♊40'55	3°32'16	minimum elong	2655 Sep 01 15:32	8°♊45'58	4°21'50
morning rise	2654 Sep 25 14:17	20°♊41'58		morning rise	2655 Sep 08 18:21	4°♊05'54	
direct	2654 Sep 28 01:09	20°♊13'45		direct	2655 Sep 11 03:57	3°♊42'35	
asc. node	2654 Sep 30 09:07	20°♊39'52		asc. node	2655 Sep 17 06:09	6°♊19'00	
morning max el	2654 Oct 04 16:58	23°♊39'52	17°51'05	morning max el	2655 Sep 18 06:54	7°♊15'18	17°59'59
	2654 Oct 09 18:06	0°♊			2655 Oct 02 21:44	0°♊	
morning set	2654 Oct 21 00:10	18°♊54'48		morning set	2655 Oct 04 02:41	2°♊13'22	
	2654 Oct 27 08:36	0°♊					
superior conj	2654 Nov 01 18:13	9°♊09'53	0°37'05	superior conj	2655 Oct 14 06:11	20°♊37'34	1°10'20
minimum elong	2654 Nov 01 21:44	9°♊24'31	0°36'37	minimum elong	2655 Oct 14 10:35	20°♊56'53	1°09'49
desc. node	2654 Nov 07 06:05	18°♊11'54			2655 Oct 19 16:44	0°♊	
max. Earth dist.	2654 Nov 08 08:15	19°♊57'28	1.43775 AU	max. Earth dist.	2655 Oct 21 20:19	3°♊35'50	1.42167 AU
	2654 Nov 14 16:21	0°♊		desc. node	2655 Oct 25 03:08	8°♊59'00	
evening rise	2654 Nov 17 01:48	3°♊43'04		evening rise	2655 Oct 27 19:46	13°♊18'26	
	2654 Dec 04 16:49	0°♊			2655 Nov 07 16:31	0°♊	
evening max el	2654 Dec 16 20:26	15°♊29'33	21°05'32	evening max el	2655 Nov 29 14:52	29°♊02'34	22°21'09
retrograde	2654 Dec 25 09:27	20°♊33'20			2655 Nov 30 14:14	0°♊	
asc. node	2654 Dec 27 08:23	20°♊12'11		retrograde	2655 Dec 09 05:29	4°♊45'20	
evening set	2654 Dec 29 11:17	18°♊59'26		evening set	2655 Dec 13 18:51	2°♊55'00	
inferior conj	2655 Jan 03 19:57	12°♊46'34	2°20'13	asc. node	2655 Dec 14 05:24	2°♊32'23	
minimum elong	2655 Jan 03 17:26	12°♊55'11	2°19'26		2655 Dec 16 13:53	30°♊	
min. Earth dist.	2655 Jan 04 05:12	12°♊14'41	0.67616 AU	inferior conj	2655 Dec 19 03:22	26°♊34'35	1°36'58
morning rise	2655 Jan 08 23:24	6°♊33'40		minimum elong	2655 Dec 19 01:21	26°♊41'33	1°36'13
direct	2655 Jan 14 06:29	4°♊14'33		min. Earth dist.	2655 Dec 19 01:14	26°♊41'57	0.67886 AU
morning max el	2655 Jan 24 22:04	10°♊35'14	23°42'18	morning rise	2655 Dec 24 07:44	20°♊24'05	
desc. node	2655 Feb 03 05:18	21°♊36'42		direct	2655 Dec 28 23:51	18°♊27'35	
	2655 Feb 09 07:50	0°♊		morning max el	2656 Jan 07 09:21	23°♊59'26	22°14'25
	2655 Feb 28 13:55	0°♊			2656 Jan 12 16:35	0°♊	
morning set	2655 Mar 01 07:42	1°♊15'30		desc. node	2656 Jan 21 02:20	11°♊13'26	
max. Earth dist.	2655 Mar 05 05:23	8°♊01'41	1.38734 AU		2656 Feb 02 18:14	0°♊	
				morning set	2656 Feb 09 16:40	10°♊58'43	
superior conj	2655 Mar 12 15:17	21°♊33'00	-1°45'14	max. Earth dist.	2656 Feb 15 02:39	19°♊55'33	1.40889 AU
minimum elong	2655 Mar 12 19:41	21°♊53'43	1°44'48		2656 Feb 20 23:05	0°♊	
	2655 Mar 17 01:23	0°♊		superior conj	2656 Feb 22 21:33	3°♊25'55	-2°01'23
evening rise	2655 Mar 21 18:30	9°♊10'58		minimum elong	2656 Feb 23 00:30	3°♊39'05	2°01'15
asc. node	2655 Mar 25 07:43	16°♊01'26		evening rise	2656 Mar 04 04:19	22°♊20'47	
	2655 Apr 02 12:16	0°♊			2656 Mar 08 07:17	0°♊	
evening max el	2655 Apr 07 03:17	5°♊36'21	18°47'35	asc. node	2656 Mar 11 04:45	5°♊10'31	
retrograde	2655 Apr 15 07:21	9°♊35'21		evening max el	2656 Mar 20 10:04	18°♊17'11	18°17'30
evening set	2655 Apr 17 12:45	9°♊18'46		retrograde	2656 Mar 27 13:25	21°♊50'44	
inferior conj	2655 Apr 25 09:57	4°♊58'32	1°51'09	evening set	2656 Mar 30 00:57	21°♊25'54	
minimum elong	2655 Apr 25 13:35	4°♊51'51	1°50'03	inferior conj	2656 Apr 06 03:41	16°♊44'56	2°56'25
min. Earth dist.	2655 Apr 28 16:33	2°♊35'38	0.57288 AU	minimum elong	2656 Apr 06 07:13	16°♊37'21	2°55'41
desc. node	2655 May 02 04:31	0°♊25'28		min. Earth dist.	2656 Apr 09 13:50	13°♊50'12	0.59326 AU
morning rise	2655 May 03 11:17	29°♊48'30		morning rise	2656 Apr 13 10:55	11°♊07'11	
	2655 May 03 01:05	30°♊		desc. node	2656 Apr 18 01:33	9°♊26'17	
direct	2655 May 08 22:47	28°♊35'24		direct	2656 Apr 19 18:57	9°♊18'14	
	2655 May 14 22:04	0°♊		morning max el	2656 May 04 03:32	17°♊05'03	27°17'43
morning max el	2655 May 23 06:52	6°♊05'28	26°11'43		2656 May 14 19:35	0°♊	

	2656 Jun 01 07:43	0°♂		morning set	2657 May 19 06:39	20°♂09'08	
morning set	2656 Jun 04 02:13	5°♂40'25			2657 May 23 22:55	0°♂	
asc. node	2656 Jun 07 04:00	12°♂12'23		max. Earth dist.	2657 May 25 04:32	2°♂40'07	1.32340 AU
				asc. node	2657 May 25 01:04	2°♂21'19	
superior conj	2656 Jun 11 04:52	21°♂01'50	0°41'28				
minimum elong	2656 Jun 11 03:09	20°♂52'23	0°41'07	superior conj	2657 May 26 15:25	5°♂50'07	0°16'47
max. Earth dist.	2656 Jun 10 18:08	20°♂02'42	1.32128 AU	minimum elong	2657 May 26 14:38	5°♂45'54	0°16'38
	2656 Jun 15 06:56	0°♂		evening rise	2657 Jun 02 12:38	20°♂47'43	
evening rise	2656 Jun 18 01:16	5°♂56'10			2657 Jun 06 23:56	0°♂	
	2656 Jun 30 17:17	0°♂			2657 Jun 26 10:03	0°♂	
desc. node	2656 Jul 15 00:53	19°♂25'31		evening max el	2657 Jun 28 06:56	1°♂53'37	24°45'03
evening max el	2656 Jul 16 15:00	21°♂00'12	26°07'11	desc. node	2657 Jul 01 21:53	4°♂59'07	
retrograde	2656 Jul 30 14:37	28°♂10'07		retrograde	2657 Jul 12 05:28	8°♂57'16	
evening set	2656 Aug 05 23:44	26°♂31'12		evening set	2657 Jul 17 09:11	7°♂57'04	
min. Earth dist.	2656 Aug 10 03:36	23°♂55'16	0.59065 AU	min. Earth dist.	2657 Jul 22 18:11	5°♂07'44	0.57118 AU
inferior conj	2656 Aug 13 10:35	21°♂27'12	-4°55'43	inferior conj	2657 Jul 25 15:18	3°♂14'58	-4°59'33
minimum elong	2656 Aug 13 13:30	21°♂21'42	4°55'29	minimum elong	2657 Jul 25 13:14	3°♂18'21	4°59'27
morning rise	2656 Aug 21 05:25	16°♂58'46			2657 Jul 31 07:12	30°♂♂	
direct	2656 Aug 23 16:30	16°♂38'15		morning rise	2657 Aug 02 19:57	29°♂08'15	
morning max el	2656 Aug 31 15:19	20°♂27'11	18°28'51	direct	2657 Aug 05 10:39	28°♂49'05	
asc. node	2656 Sep 03 03:12	23°♂10'26			2657 Aug 10 07:00	0°♂	
	2656 Sep 07 21:14	0°♂		morning max el	2657 Aug 14 15:07	3°♂06'26	19°18'51
morning set	2656 Sep 16 17:50	16°♂07'43		asc. node	2657 Aug 21 00:16	10°♂59'26	
	2656 Sep 23 23:48	0°♂		morning set	2657 Aug 31 17:47	0°♂27'33	
					2657 Aug 31 12:15	0°♂	
superior conj	2656 Sep 25 17:00	3°♂12'21	1°31'51				
minimum elong	2656 Sep 25 20:12	3°♂27'14	1°31'35	superior conj	2657 Sep 08 21:05	16°♂38'24	1°42'51
max. Earth dist.	2656 Oct 03 03:04	16°♂31'24	1.40197 AU	minimum elong	2657 Sep 08 22:28	16°♂45'11	1°42'48
evening rise	2656 Oct 07 10:36	23°♂51'13		max. Earth dist.	2657 Sep 15 06:44	28°♂44'45	1.38128 AU
desc. node	2656 Oct 11 00:11	29°♂41'55			2657 Sep 15 23:15	0°♂	
	2656 Oct 11 04:41	0°♂		evening rise	2657 Sep 19 01:15	5°♂30'14	
	2656 Oct 31 13:42	0°♂		desc. node	2657 Sep 27 21:14	20°♂16'37	
evening max el	2656 Nov 11 05:10	12°♂38'08	23°41'04		2657 Oct 04 04:42	0°♂	
retrograde	2656 Nov 21 22:35	18°♂58'00		evening max el	2657 Oct 24 17:24	26°♂16'56	24°58'46
evening set	2656 Nov 27 01:00	16°♂50'52			2657 Oct 28 23:40	0°♂	
asc. node	2656 Nov 30 02:26	13°♂34'11		retrograde	2657 Nov 05 11:39	3°♂06'35	
inferior conj	2656 Dec 02 10:44	10°♂26'43	0°47'47	evening set	2657 Nov 11 04:01	0°♂43'43	
minimum elong	2656 Dec 02 09:38	10°♂30'29	0°47'19		2657 Nov 11 23:12	30°♂♂	
min. Earth dist.	2656 Dec 01 21:53	11°♂10'35	0.67798 AU	min. Earth dist.	2657 Nov 15 16:47	25°♂37'26	0.67374 AU
morning rise	2656 Dec 07 18:15	4°♂20'30		inferior conj	2657 Nov 16 16:16	24°♂20'10	-0°06'12
direct	2656 Dec 11 20:14	2°♂46'48		minimum elong	2657 Nov 16 16:26	24°♂19'39	0°06'09
morning max el	2656 Dec 20 02:57	7°♂34'11	20°53'45	transit middle	2657 Nov 16 16:26	24°♂19'39	0°06'09
	2657 Jan 06 02:57	0°♂		transit begin	2657 Nov 16 13:52	24°♂28'05	
desc. node	2657 Jan 06 23:24	1°♂15'32		transit end	2657 Nov 16 18:59	24°♂11'14	
morning set	2657 Jan 18 22:57	19°♂29'36		asc. node	2657 Nov 16 23:29	23°♂56'29	
	2657 Jan 25 13:59	0°♂		morning rise	2657 Nov 22 05:01	18°♂20'26	
max. Earth dist.	2657 Jan 27 06:49	2°♂45'18	1.42813 AU	direct	2657 Nov 25 18:26	17°♂07'22	
				morning max el	2657 Dec 03 04:17	21°♂19'30	19°45'15
superior conj	2657 Feb 03 04:53	14°♂13'46	-2°05'31		2657 Dec 10 06:38	0°♂	
minimum elong	2657 Feb 03 03:43	14°♂08'49	2°05'30	greatest brilliancy	2657 Dec 16 10:48	8°♂52'44	-0.7m
	2657 Feb 12 06:58	0°♂		desc. node	2657 Dec 24 20:27	21°♂35'26	
evening rise	2657 Feb 14 23:32	4°♂47'18		morning set	2657 Dec 28 19:04	27°♂39'26	
asc. node	2657 Feb 26 01:47	23°♂49'53			2657 Dec 30 07:25	0°♂	
	2657 Mar 02 15:02	0°♂		max. Earth dist.	2658 Jan 09 17:58	16°♂21'43	1.44260 AU
evening max el	2657 Mar 03 21:20	1°♂20'45	18°07'09				
retrograde	2657 Mar 10 11:27	4°♂44'26		superior conj	2658 Jan 14 10:01	23°♂50'26	-1°52'35
evening set	2657 Mar 13 04:36	4°♂09'42		minimum elong	2658 Jan 14 03:13	23°♂23'01	1°52'08
	2657 Mar 18 19:21	30°♂♂			2658 Jan 18 04:51	0°♂	
inferior conj	2657 Mar 19 16:32	29°♂08'12	3°30'54	evening rise	2658 Jan 27 23:41	16°♂21'09	
minimum elong	2657 Mar 19 18:22	29°♂03'39	3°30'42		2658 Feb 05 01:42	0°♂	
min. Earth dist.	2657 Mar 22 18:38	26°♂06'15	0.61482 AU	asc. node	2658 Feb 12 22:49	11°♂49'41	
morning rise	2657 Mar 26 06:28	23°♂12'38		evening max el	2658 Feb 15 10:00	14°♂38'22	18°15'56
direct	2657 Apr 02 02:14	20°♂50'27		retrograde	2658 Feb 21 20:50	18°♂05'46	
desc. node	2657 Apr 04 22:35	21°♂13'22		evening set	2658 Feb 24 19:22	17°♂20'01	
morning max el	2657 Apr 16 06:40	28°♂46'19	27°48'32	inferior conj	2658 Mar 02 20:19	11°♂59'07	3°41'17
	2657 Apr 17 11:34	0°♂		minimum elong	2658 Mar 02 20:16	11°♂59'14	3°41'17
	2657 May 08 15:38	0°♂		min. Earth dist.	2658 Mar 05 08:32	9°♂12'32	0.63486 AU

morning rise	2658 Mar 08 20:17	5° H 53'47		min. Earth dist.	2659 Feb 16 07:47	22° \approx 55'12	0.65163 AU
direct	2658 Mar 15 18:21	3° H 09'29		morning rise	2659 Feb 20 01:04	19° \approx 00'21	
desc. node	2658 Mar 22 19:37	5° H 30'31		direct	2659 Feb 26 17:34	16° \approx 08'40	
morning max el	2658 Mar 29 14:20	11° H 06'04	27°41'58	desc. node	2659 Mar 09 16:40	21° \approx 43'28	
	2658 Apr 13 12:20	0° Y		morning max el	2659 Mar 11 23:57	23° \approx 55'07	27°01'49
	2658 May 01 00:41	0° B			2659 Mar 17 11:00	0° H	
morning set	2658 May 03 04:25	4° B 14'29			2659 Apr 06 21:00	0° Y	
max. Earth dist.	2658 May 08 09:02	14° B 55'04	1.32966 AU	morning set	2659 Apr 16 16:29	17° Y 47'08	
				max. Earth dist.	2659 Apr 21 04:03	26° Y 38'53	1.34044 AU
					2659 Apr 22 19:26	0° B	
superior conj	2658 May 10 22:55	20° B 24'52	-0°10'10				
minimum elong	2658 May 10 23:25	20° B 27'33	0°10'03				
behind sun begin	2658 May 10 19:16	20° B 05'16		superior conj	2659 Apr 25 01:22	4° B 39'56	-0°38'21
behind sun end	2658 May 11 03:34	20° B 49'51		minimum elong	2659 Apr 25 03:19	4° B 50'13	0°37'57
asc. node	2658 May 11 22:08	22° B 29'47		asc. node	2659 Apr 28 19:10	12° B 33'51	
	2658 May 15 09:29	0° II		evening rise	2659 May 02 10:48	20° B 16'05	
evening rise	2658 May 18 00:25	5° II 36'22			2659 May 07 06:10	0° II	
	2658 May 31 01:45	0° E		evening max el	2659 May 22 15:12	22° II 58'32	21°36'04
evening max el	2658 Jun 09 20:30	12° E 22'42	23°09'40	retrograde	2659 Jun 03 23:00	29° II 01'39	
desc. node	2658 Jun 18 18:53	18° E 19'11		desc. node	2659 Jun 05 15:54	28° II 55'01	
retrograde	2658 Jun 23 07:53	19° E 06'09		evening set	2659 Jun 06 10:18	28° II 47'51	
evening set	2658 Jun 26 23:14	18° E 37'08		inferior conj	2659 Jun 15 20:00	24° II 46'49	-2°52'00
min. Earth dist.	2658 Jul 04 06:01	15° E 20'05	0.55625 AU	minimum elong	2659 Jun 15 12:32	24° II 57'15	2°49'38
inferior conj	2658 Jul 06 00:23	14° E 18'10	-4°19'57	min. Earth dist.	2659 Jun 15 17:30	24° II 50'19	0.54913 AU
minimum elong	2658 Jul 05 17:14	14° E 28'40	4°18'31	morning rise	2659 Jun 24 15:41	20° II 51'46	
morning rise	2658 Jul 14 13:41	10° E 25'00		direct	2659 Jun 27 21:07	20° II 29'01	
direct	2658 Jul 17 09:54	10° E 05'37		morning max el	2659 Jul 10 05:06	26° II 17'58	22°00'14
morning max el	2658 Jul 28 03:52	15° E 04'35	20°30'08		2659 Jul 13 17:34	0° E	
asc. node	2658 Aug 07 21:21	29° E 32'59		asc. node	2659 Jul 25 18:24	18° E 39'47	
	2658 Aug 08 03:34	0° O		morning set	2659 Jul 31 09:21	29° E 54'59	
morning set	2658 Aug 15 23:43	15° O 05'35			2659 Jul 31 10:19	0° O	
	2658 Aug 23 05:21	0° P					
				superior conj	2659 Aug 07 14:41	15° O 11'04	1°40'15
superior conj	2658 Aug 23 13:35	0° P 41'56	1°45'07	minimum elong	2659 Aug 07 13:10	15° O 03'08	1°40'09
minimum elong	2658 Aug 23 13:18	0° P 40'29	1°45'07	max. Earth dist.	2659 Aug 11 03:58	22° O 33'16	1.34608 AU
max. Earth dist.	2658 Aug 28 13:20	10° P 36'58	1.36210 AU		2659 Aug 14 21:23	0° P	
evening rise	2658 Sep 01 12:57	18° P 09'21		evening rise	2659 Aug 15 17:04	1° P 35'39	
	2658 Sep 08 05:26	0° A			2659 Sep 01 04:38	0° A	
desc. node	2658 Sep 14 18:15	10° A 38'18		desc. node	2659 Sep 01 15:15	0° A 40'12	
	2658 Sep 28 09:55	0° M		evening max el	2659 Sep 19 18:05	23° A 33'07	26°57'34
evening max el	2658 Oct 07 05:36	9° M 57'55	26°06'49		2659 Sep 28 21:30	0° M	
retrograde	2658 Oct 19 19:52	17° M 06'09		retrograde	2659 Oct 02 22:28	0° M 49'28	
evening set	2658 Oct 26 02:06	14° M 30'44			2659 Oct 06 17:10	30° R 4	
min. Earth dist.	2658 Oct 30 07:33	9° M 59'57	0.66615 AU	evening set	2659 Oct 09 17:04	28° A 07'03	
inferior conj	2658 Oct 31 18:09	8° M 12'24	-1°03'40	min. Earth dist.	2659 Oct 13 15:43	24° A 12'38	0.65513 AU
minimum elong	2658 Oct 31 19:50	8° M 07'09	1°02'58	inferior conj	2659 Oct 15 14:16	21° A 58'42	-2°03'00
asc. node	2658 Nov 03 20:31	4° M 36'16		minimum elong	2659 Oct 15 17:37	21° A 49'04	2°01'41
morning rise	2658 Nov 06 14:00	2° M 21'52		morning rise	2659 Oct 21 18:55	16° A 20'28	
direct	2658 Nov 09 16:58	1° M 26'02		asc. node	2659 Oct 21 17:34	16° A 22'10	
morning max el	2658 Nov 16 12:48	5° M 13'14	18°51'45	direct	2659 Oct 24 13:43	15° A 38'07	
	2658 Dec 04 00:07	0° X		morning max el	2659 Oct 31 02:29	19° A 10'08	18°14'34
morning set	2658 Dec 08 06:21	6° X 41'31			2659 Nov 08 06:23	0° M	
desc. node	2658 Dec 11 17:30	12° X 08'12		morning set	2659 Nov 18 22:07	17° M 10'00	
	2658 Dec 23 02:42	0° Z			2659 Nov 26 20:15	0° X	
max. Earth dist.	2658 Dec 23 10:39	0° Z 31'14	1.45061 AU	desc. node	2659 Nov 28 14:31	2° X 49'08	
superior conj	2658 Dec 24 17:28	2° Z 32'24	-1°20'30	superior conj	2659 Dec 03 19:49	11° X 06'21	-0°34'45
minimum elong	2658 Dec 24 08:36	1° Z 57'32	1°19'33	minimum elong	2659 Dec 03 15:21	10° X 48'45	0°34'08
evening rise	2659 Jan 09 01:12	26° Z 57'39		max. Earth dist.	2659 Dec 06 05:59	14° X 55'28	1.45126 AU
	2659 Jan 10 22:15	0° \approx			2659 Dec 15 21:14	0° Z	
evening max el	2659 Jan 29 21:27	28° \approx 04'23	18°42'58	evening rise	2659 Dec 20 03:52	6° Z 40'10	
asc. node	2659 Jan 30 19:50	28° \approx 58'31		greatest brilliancy	2659 Dec 31 23:07	24° Z 57'12	-0.7m
	2659 Feb 01 01:16	0° H			2660 Jan 04 08:00	0° \approx	
retrograde	2659 Feb 05 13:27	1° H 47'11		evening max el	2660 Jan 13 05:26	11° \approx 33'49	19°27'03
evening set	2659 Feb 08 17:56	0° H 49'24		asc. node	2660 Jan 17 16:51	15° \approx 02'19	
	2659 Feb 09 22:11	30° R \approx		retrograde	2660 Jan 20 10:05	15° \approx 42'21	
inferior conj	2659 Feb 14 11:12	25° \approx 10'44	3°33'48	evening set	2660 Jan 23 21:37	14° \approx 31'27	
minimum elong	2659 Feb 14 09:43	25° \approx 15'13	3°33'39	inferior conj	2660 Jan 29 09:51	8° \approx 37'05	3°13'01

minimum elong	2660 Jan 29 07:32	8° \approx 44'38	3°12'33	asc. node	2661 Jan 03 13:53	29° \approx 46'04	
min. Earth dist.	2660 Jan 30 15:28	7° \approx 00'43	0.66429 AU	evening set	2661 Jan 07 04:11	28° \approx 21'09	
morning rise	2660 Feb 03 17:15	2° \approx 24'21		inferior conj	2661 Jan 12 13:36	22° \approx 13'55	2°41'57
	2660 Feb 07 15:40	30° \approx 38'33		minimum elong	2661 Jan 12 11:01	22° \approx 22'41	2°41'14
direct	2660 Feb 09 22:44	29° \approx 38'33		min. Earth dist.	2661 Jan 13 05:48	21° \approx 18'51	0.67288 AU
	2660 Feb 12 08:40	0° \approx		morning rise	2661 Jan 17 17:41	16° \approx 30'31	
morning max el	2660 Feb 22 09:24	7° \approx 02'02	25°55'47	direct	2661 Jan 23 09:10	13° \approx 30'07	
desc. node	2660 Feb 24 13:43	9° \approx 20'01		morning max el	2661 Feb 03 17:58	20° \approx 17'11	24°33'16
	2660 Mar 11 05:49	0° \approx		desc. node	2661 Feb 10 10:44	27° \approx 55'38	
	2660 Mar 29 07:06	0° \approx			2661 Feb 12 01:55	0° \approx	
morning set	2660 Mar 29 14:48	0° \approx 35'28			2661 Mar 04 10:24	0° \approx	
max. Earth dist.	2660 Apr 02 11:43	7° \approx 53'22	1.35577 AU	morning set	2661 Mar 11 17:55	12° \approx 23'24	
				max. Earth dist.	2661 Mar 15 09:48	18° \approx 56'12	1.37504 AU
					2661 Mar 21 07:35	0° \approx	
superior conj	2660 Apr 07 20:14	18° \approx 28'07	-1°06'25				
minimum elong	2660 Apr 07 23:37	18° \approx 45'17	1°05'50				
	2660 Apr 13 11:11	0° \approx		superior conj	2661 Mar 22 04:14	1° \approx 39'33	-1°32'22
asc. node	2660 Apr 14 16:11	2° \approx 29'28		minimum elong	2661 Mar 22 08:35	2° \approx 00'38	1°31'49
evening rise	2660 Apr 15 17:47	4° \approx 40'47		evening rise	2661 Mar 30 18:55	18° \approx 42'15	
	2660 Apr 30 05:18	0° \approx		asc. node	2661 Apr 01 13:13	22° \approx 11'17	
evening max el	2660 May 03 20:35	4° \approx 06'16	20°15'40		2661 Apr 05 15:29	0° \approx	
retrograde	2660 May 14 12:43	9° \approx 17'15		evening max el	2661 Apr 16 13:41	15° \approx 53'41	19°13'57
evening set	2660 May 16 13:05	9° \approx 06'57		retrograde	2661 Apr 25 13:40	20° \approx 15'36	
desc. node	2660 May 22 12:55	6° \approx 53'58		evening set	2661 Apr 27 15:32	20° \approx 02'37	
inferior conj	2660 May 25 15:20	5° \approx 08'26	-0°54'35	inferior conj	2661 May 06 00:10	15° \approx 52'38	0°58'16
minimum elong	2660 May 25 12:47	5° \approx 12'13	0°53'38	minimum elong	2661 May 06 02:29	15° \approx 48'45	0°57'28
min. Earth dist.	2660 May 27 06:10	4° \approx 11'18	0.55152 AU	min. Earth dist.	2661 May 08 21:07	13° \approx 57'34	0.56300 AU
morning rise	2660 Jun 03 11:06	0° \approx 51'59		desc. node	2661 May 09 09:56	13° \approx 37'04	
direct	2660 Jun 07 08:38	0° \approx 19'05		morning rise	2661 May 14 10:25	11° \approx 01'48	
morning max el	2660 Jun 20 22:02	6° \approx 56'34	23°41'39	direct	2661 May 19 07:17	10° \approx 07'00	
	2660 Jul 07 09:12	0° \approx		morning max el	2661 Jun 02 12:25	17° \approx 22'32	25°21'20
asc. node	2660 Jul 11 15:27	8° \approx 11'15			2661 Jun 12 21:26	0° \approx	
morning set	2660 Jul 14 20:54	14° \approx 50'24		asc. node	2661 Jun 28 12:29	27° \approx 15'46	
				morning set	2661 Jun 29 08:37	29° \approx 14'53	
					2661 Jun 29 11:21	0° \approx	
superior conj	2660 Jul 21 21:31	29° \approx 57'07	1°29'33				
minimum elong	2660 Jul 21 19:19	29° \approx 45'15	1°29'18				
	2660 Jul 21 22:03	0° \approx		superior conj	2661 Jul 06 07:44	14° \approx 51'49	1°14'00
max. Earth dist.	2660 Jul 24 03:46	4° \approx 47'36	1.33399 AU	minimum elong	2661 Jul 06 05:22	14° \approx 38'48	1°13'38
evening rise	2660 Jul 29 09:22	15° \approx 03'30		max. Earth dist.	2661 Jul 07 10:51	17° \approx 19'55	1.32592 AU
	2660 Aug 05 23:00	0° \approx		evening rise	2661 Jul 13 10:16	0° \approx 03'42	
desc. node	2660 Aug 18 12:15	20° \approx 13'47			2661 Jul 13 09:32	0° \approx	
	2660 Aug 25 21:44	0° \approx			2661 Jul 30 00:24	0° \approx	
evening max el	2660 Sep 01 05:39	6° \approx 51'06	27°23'48	desc. node	2661 Aug 05 09:16	9° \approx 06'49	
retrograde	2660 Sep 14 19:06	14° \approx 08'46		evening max el	2661 Aug 14 14:09	19° \approx 38'42	27°19'56
evening set	2660 Sep 21 22:12	11° \approx 28'09		retrograde	2661 Aug 28 09:26	26° \approx 54'28	
min. Earth dist.	2660 Sep 25 15:03	8° \approx 08'23	0.64058 AU	evening set	2661 Sep 04 13:58	24° \approx 27'42	
inferior conj	2660 Sep 28 02:13	5° \approx 33'55	-3°01'44	min. Earth dist.	2661 Sep 08 04:10	21° \approx 35'54	0.62269 AU
minimum elong	2660 Sep 28 07:03	5° \approx 21'17	3°00'05	inferior conj	2661 Sep 11 03:05	18° \approx 51'01	-3°56'02
morning rise	2660 Oct 04 17:02	0° \approx 11'28		minimum elong	2661 Sep 11 08:38	18° \approx 38'04	3°54'35
	2660 Oct 05 05:07	30° \approx 38'33		morning rise	2661 Sep 18 04:52	13° \approx 47'37	
direct	2660 Oct 07 06:06	29° \approx 39'01		direct	2661 Sep 20 14:48	13° \approx 21'52	
asc. node	2660 Oct 07 14:38	29° \approx 39'39		asc. node	2661 Sep 24 11:41	14° \approx 30'04	
	2660 Oct 09 06:56	0° \approx		morning max el	2661 Sep 27 10:25	16° \approx 49'34	17°52'33
morning max el	2660 Oct 13 18:41	3° \approx 04'35	17°54'31		2661 Oct 06 17:54	0° \approx	
morning set	2660 Oct 30 17:27	28° \approx 58'47		morning set	2661 Oct 13 10:22	11° \approx 49'31	
	2660 Oct 31 07:46	0° \approx			2661 Oct 23 17:31	0° \approx	
superior conj	2660 Nov 12 14:02	20° \approx 30'37	0°12'54	superior conj	2661 Oct 24 10:46	1° \approx 13'46	0°52'39
minimum elong	2660 Nov 12 15:28	20° \approx 36'29	0°12'42	minimum elong	2661 Oct 24 15:01	1° \approx 31'53	0°52'05
behind sun begin	2660 Nov 12 09:12	20° \approx 10'59		max. Earth dist.	2661 Oct 31 15:01	13° \approx 11'16	1.43142 AU
behind sun end	2660 Nov 12 21:44	21° \approx 01'57		desc. node	2661 Nov 01 08:34	14° \approx 22'33	
desc. node	2660 Nov 14 11:31	23° \approx 34'54		evening rise	2661 Nov 08 01:32	25° \approx 02'14	
max. Earth dist.	2660 Nov 18 00:26	29° \approx 14'51	1.44457 AU		2661 Nov 11 06:29	0° \approx	
	2660 Nov 18 11:48	0° \approx			2661 Dec 02 00:02	0° \approx	
evening rise	2660 Nov 28 14:55	15° \approx 48'51		evening max el	2661 Dec 09 05:37	8° \approx 35'22	21°36'51
	2660 Dec 07 22:46	0° \approx		retrograde	2661 Dec 18 05:25	13° \approx 56'21	
evening max el	2660 Dec 26 08:19	25° \approx 03'59	20°26'03	asc. node	2661 Dec 21 10:55	12° \approx 59'12	
retrograde	2661 Jan 03 08:05	29° \approx 46'24		evening set	2661 Dec 22 11:52	12° \approx 15'35	

inferior conj	2661 Dec 27 20:15	5°♄58'48	2°02'43	retrograde	2662 Dec 02 00:22	28°♄08'34	
minimum elong	2661 Dec 27 17:54	6°♄06'56	2°01'54	evening set	2662 Dec 06 19:00	26°♄11'19	
min. Earth dist.	2661 Dec 28 00:32	5°♄43'59	0.67765 AU	asc. node	2662 Dec 08 07:57	24°♄42'40	
morning rise	2662 Jan 01 23:47	29°♄46'31		inferior conj	2662 Dec 12 03:53	19°♄48'49	1°16'47
	2662 Jan 01 17:45	30°♄♂		minimum elong	2662 Dec 12 02:12	19°♄54'36	1°16'07
direct	2662 Jan 07 00:20	27°♄36'54		min. Earth dist.	2662 Dec 11 21:13	20°♄11'49	0.67887 AU
	2662 Jan 13 00:07	0°♄		morning rise	2662 Dec 17 09:17	13°♄39'37	
morning max el	2662 Jan 17 03:18	3°♄37'37	23°04'33	direct	2662 Dec 21 19:15	11°♄52'47	
desc. node	2662 Jan 28 07:46	17°♄13'44		morning max el	2662 Dec 30 16:47	17°♄05'10	21°38'47
	2662 Feb 06 06:26	0°♄			2663 Jan 10 05:05	0°♄	
morning set	2662 Feb 20 19:40	22°♄55'19		desc. node	2663 Jan 15 04:49	7°♄02'03	
	2662 Feb 24 23:52	0°♄			2663 Jan 30 09:04	0°♄	
max. Earth dist.	2662 Feb 25 04:38	0°♄20'33	1.39651 AU	morning set	2663 Jan 31 16:13	2°♄03'25	
				max. Earth dist.	2663 Feb 07 03:50	12°♄34'56	1.41750 AU
superior conj	2662 Mar 04 21:17	14°♄04'24	-1°53'15				
minimum elong	2662 Mar 05 01:21	14°♄23'10	1°52'55	superior conj	2663 Feb 14 18:21	25°♄30'27	-2°04'56
	2662 Mar 13 07:34	0°♄		minimum elong	2663 Feb 14 19:54	25°♄37'10	2°04'54
evening rise	2662 Mar 14 11:19	2°♄13'05			2663 Feb 17 07:39	0°♄	
asc. node	2662 Mar 19 10:15	11°♄34'08		evening rise	2663 Feb 25 15:21	15°♄04'34	
evening max el	2662 Mar 30 16:28	28°♄17'39	18°32'24		2663 Mar 05 23:49	0°♄	
	2662 Apr 01 16:34	0°♄		asc. node	2663 Mar 06 07:17	0°♄31'08	
retrograde	2662 Apr 07 08:44	2°♄03'54		evening max el	2663 Mar 14 01:35	11°♄09'00	18°10'49
evening set	2662 Apr 09 16:39	1°♄44'13		retrograde	2663 Mar 20 21:51	14°♄36'11	
	2662 Apr 13 10:42	30°♄♂		evening set	2663 Mar 23 11:56	14°♄07'15	
inferior conj	2662 Apr 17 05:41	27°♄15'38	2°22'53	inferior conj	2663 Mar 30 07:54	9°♄17'43	3°14'25
minimum elong	2662 Apr 17 09:35	27°♄07'58	2°21'50	minimum elong	2663 Mar 30 10:48	9°♄11'05	3°13'56
min. Earth dist.	2662 Apr 20 15:42	24°♄36'02	0.58116 AU	min. Earth dist.	2663 Apr 02 15:52	6°♄16'43	0.60248 AU
morning rise	2662 Apr 24 23:26	21°♄52'15		morning rise	2663 Apr 06 07:30	3°♄31'29	
desc. node	2662 Apr 26 06:58	21°♄17'33		direct	2663 Apr 12 21:59	1°♄27'08	
direct	2662 Apr 30 20:31	20°♄24'02		desc. node	2663 Apr 13 03:59	1°♄27'19	
morning max el	2662 May 15 05:45	28°♄03'20	26°43'32	morning max el	2663 Apr 27 04:56	9°♄18'41	27°35'24
	2662 May 17 03:27	0°♄			2663 May 13 02:27	0°♄	
	2662 Jun 06 10:40	0°♄		morning set	2663 May 29 02:04	29°♄13'13	
morning set	2662 Jun 13 18:55	14°♄35'04			2663 May 29 11:04	0°♄	
asc. node	2662 Jun 15 09:32	17°♄59'56		asc. node	2663 Jun 02 06:36	8°♄06'58	
				max. Earth dist.	2663 Jun 04 09:56	12°♄46'49	1.32166 AU
superior conj	2662 Jun 20 19:28	29°♄48'49	0°54'22				
minimum elong	2662 Jun 20 17:23	29°♄37'21	0°53'59	superior conj	2663 Jun 05 06:56	14°♄42'08	0°31'21
	2662 Jun 20 21:29	0°♄		minimum elong	2663 Jun 05 05:35	14°♄34'40	0°31'04
max. Earth dist.	2662 Jun 20 22:06	0°♄03'20	1.32185 AU	evening rise	2663 Jun 12 03:14	29°♄36'15	
evening rise	2662 Jun 27 16:59	14°♄45'49			2663 Jun 12 07:43	0°♄	
	2662 Jul 05 09:35	0°♄			2663 Jun 28 20:32	0°♄	
desc. node	2662 Jul 23 06:18	27°♄02'25		evening max el	2663 Jul 09 13:13	13°♄04'13	25°34'58
	2662 Jul 25 23:00	0°♄		desc. node	2663 Jul 10 03:18	13°♄37'17	
evening max el	2662 Jul 27 17:11	1°♄44'37	26°42'55	retrograde	2663 Jul 23 13:15	20°♄11'51	
retrograde	2662 Aug 10 16:08	8°♄57'04		evening set	2663 Jul 29 11:11	18°♄49'48	
evening set	2662 Aug 17 11:49	6°♄57'46		min. Earth dist.	2663 Aug 03 01:21	16°♄10'04	0.58205 AU
min. Earth dist.	2662 Aug 21 07:04	4°♄20'44	0.60252 AU	inferior conj	2663 Aug 06 05:48	13°♄55'00	-5°01'50
inferior conj	2662 Aug 24 13:24	1°♄41'05	-4°39'30	minimum elong	2663 Aug 06 06:53	13°♄53'05	5°01'48
minimum elong	2662 Aug 24 18:01	1°♄31'38	4°38'48	morning rise	2663 Aug 14 04:54	9°♄35'51	
	2662 Aug 26 16:18	30°♄♂		direct	2663 Aug 16 17:16	9°♄16'01	
morning rise	2662 Sep 01 02:12	26°♄59'20		morning max el	2663 Aug 25 03:34	13°♄15'50	18°47'22
direct	2662 Sep 03 11:55	26°♄37'35		asc. node	2663 Aug 29 05:48	17°♄59'51	
	2662 Sep 10 15:36	0°♄			2663 Sep 05 14:34	0°♄	
morning max el	2662 Sep 10 22:27	0°♄16'14	18°09'43	morning set	2663 Sep 10 14:12	9°♄31'35	
asc. node	2662 Sep 11 08:44	0°♄41'44					
morning set	2662 Sep 26 18:50	25°♄24'35		superior conj	2663 Sep 19 03:59	26°♄10'28	1°37'41
	2662 Sep 29 05:25	0°♄		minimum elong	2663 Sep 19 06:26	26°♄22'06	1°37'32
					2663 Sep 21 04:51	0°♄	
superior conj	2662 Oct 06 09:08	13°♄11'44	1°20'51	max. Earth dist.	2663 Sep 26 05:20	9°♄07'30	1.39321 AU
minimum elong	2662 Oct 06 13:11	13°♄29'57	1°20'26	evening rise	2663 Sep 30 04:42	16°♄01'41	
max. Earth dist.	2662 Oct 14 00:12	26°♄30'04	1.41354 AU	desc. node	2663 Oct 06 02:40	25°♄48'29	
	2662 Oct 16 02:22	0°♄			2663 Oct 08 18:07	0°♄	
evening rise	2662 Oct 19 03:30	4°♄59'41			2663 Oct 30 05:00	0°♄	
desc. node	2662 Oct 19 05:37	5°♄08'16		evening max el	2663 Nov 04 11:25	5°♄46'52	24°14'49
	2662 Nov 04 13:03	0°♄		retrograde	2663 Nov 15 15:44	12°♄19'52	
evening max el	2662 Nov 21 22:03	22°♄09'05	22°55'05	evening set	2663 Nov 20 24:00	10°♄06'02	

























































































































asc. node	2663 Nov 25 05:00	5°♊21'22		evening max el	2664 Oct 16 23:33	19°♍27'10	25°29'14
min. Earth dist.	2663 Nov 25 17:24	4°♊40'00	0.67667 AU	retrograde	2664 Oct 29 02:39	26°♍25'22	
inferior conj	2663 Nov 26 10:41	3°♊41'50	0°25'24	evening set	2664 Nov 04 01:09	23°♍56'31	
minimum elong	2663 Nov 26 10:05	3°♊43'53	0°25'08	min. Earth dist.	2664 Nov 08 10:44	19°♍05'25	0.67103 AU
	2663 Nov 29 08:25	30°♋♌		inferior conj	2664 Nov 09 14:54	17°♍34'51	-0°30'15
morning rise	2663 Dec 01 20:11	27°♍38'00		minimum elong	2664 Nov 09 15:40	17°♍32'21	0°29'55
direct	2663 Dec 05 16:42	26°♍13'13		asc. node	2664 Nov 11 02:03	15°♍43'49	
	2663 Dec 12 19:27	0°♊		morning rise	2664 Nov 15 06:27	11°♍38'55	
morning max el	2663 Dec 13 13:29	0°♊43'54	20°22'48	direct	2664 Nov 18 15:14	10°♍33'36	
desc. node	2664 Jan 02 01:53	27°♊12'24		morning max el	2664 Nov 25 18:06	14°♍33'22	19°20'32
	2664 Jan 03 22:18	0°♋			2664 Dec 07 10:28	0°♊	
morning set	2664 Jan 10 15:04	10°♋15'34		greatest brilliancy	2664 Dec 09 09:43	2°♊57'33	-0.7m
max. Earth dist.	2664 Jan 20 11:21	25°♋46'50	1.43507 AU	desc. node	2664 Dec 18 22:56	17°♊38'21	
	2664 Jan 23 01:56	0°♌		morning set	2664 Dec 19 14:59	18°♊40'33	
					2664 Dec 26 21:36	0°♋	
superior conj	2664 Jan 26 14:38	5°♌47'38	-2°02'21	max. Earth dist.	2665 Jan 02 01:46	9°♋41'43	1.44691 AU
minimum elong	2664 Jan 26 11:03	5°♌32'46	2°02'14				
evening rise	2664 Feb 08 02:55	27°♌08'55		superior conj	2665 Jan 05 09:15	14°♋56'54	-1°41'11
	2664 Feb 09 18:04	0°♋		minimum elong	2665 Jan 05 00:47	14°♋23'13	1°40'28
asc. node	2664 Feb 21 04:19	18°♋54'29			2665 Jan 14 16:52	0°♌	
evening max el	2664 Feb 25 13:47	24°♋19'03	18°08'37	evening rise	2665 Jan 19 17:48	8°♌19'06	
retrograde	2664 Mar 03 01:12	27°♋42'30			2665 Feb 02 02:26	0°♋	
evening set	2664 Mar 05 20:45	27°♋03'00		asc. node	2665 Feb 07 01:20	6°♋34'13	
inferior conj	2664 Mar 12 03:32	21°♋52'54	3°37'50	evening max el	2665 Feb 08 02:12	7°♋40'45	18°25'13
minimum elong	2664 Mar 12 04:32	21°♋50'16	3°37'47	retrograde	2665 Feb 14 14:16	11°♋13'33	
min. Earth dist.	2664 Mar 15 00:05	18°♋55'21	0.62368 AU	evening set	2665 Feb 17 15:14	10°♋22'44	
morning rise	2664 Mar 18 11:05	15°♋52'41		inferior conj	2665 Feb 23 12:30	4°♋53'44	3°39'59
direct	2664 Mar 25 08:59	13°♋19'37		minimum elong	2665 Feb 23 11:47	4°♋55'49	3°39'57
desc. node	2664 Mar 30 01:02	14°♋21'25		min. Earth dist.	2665 Feb 25 17:58	2°♋19'09	0.64241 AU
morning max el	2664 Apr 08 10:07	21°♋15'58	27°50'20		2665 Feb 27 22:39	30°♋♌	
	2664 Apr 16 00:20	0°♎		morning rise	2665 Mar 01 07:42	28°♌45'42	
	2664 May 05 03:46	0°♏		direct	2665 Mar 08 04:03	25°♌56'51	
morning set	2664 May 12 03:56	13°♏32'25		desc. node	2665 Mar 16 22:04	29°♌32'19	
max. Earth dist.	2664 May 17 18:24	25°♏16'24	1.32552 AU		2665 Mar 17 12:32	0°♋	
asc. node	2664 May 19 03:38	28°♏15'45		morning max el	2665 Mar 21 19:09	3°♋50'27	27°28'46
					2665 Apr 10 11:41	0°♎	
superior conj	2664 May 19 16:23	29°♏24'58	0°05'37	morning set	2665 Apr 25 21:59	27°♎25'02	
minimum elong	2664 May 19 16:07	29°♏23'30	0°05'34		2665 Apr 27 05:14	0°♏	
behind sun begin	2664 May 19 11:14	28°♏57'01		max. Earth dist.	2665 Apr 30 19:30	7°♏19'55	1.33368 AU
behind sun end	2664 May 19 21:00	29°♏50'01					
	2664 May 19 22:50	0°♐		superior conj	2665 May 03 21:58	13°♏51'47	-0°22'01
evening rise	2664 May 26 14:58	14°♐27'13		minimum elong	2665 May 03 23:05	13°♏57'41	0°21'47
	2664 Jun 03 09:57	0°♑		asc. node	2665 May 06 00:39	18°♏22'38	
evening max el	2664 Jun 20 03:26	23°♑44'05	24°05'17	evening rise	2665 May 11 02:24	29°♏12'45	
desc. node	2664 Jun 26 00:19	28°♑18'52			2665 May 11 11:24	0°♐	
	2664 Jun 29 17:08	0°♒			2665 May 28 22:37	0°♑	
retrograde	2664 Jul 03 22:29	0°♒40'46		evening max el	2665 Jun 01 18:00	4°♑10'49	22°28'46
evening set	2664 Jul 08 11:06	29°♑55'24		desc. node	2665 Jun 12 21:18	10°♑31'32	
	2664 Jul 08 05:19	30°♋♌		retrograde	2665 Jun 14 19:37	10°♑40'05	
min. Earth dist.	2664 Jul 14 14:02	26°♑56'05	0.56411 AU	evening set	2665 Jun 17 21:22	10°♑19'15	
inferior conj	2664 Jul 17 01:55	25°♑23'35	-4°48'47	min. Earth dist.	2665 Jun 26 01:11	6°♑46'47	0.55211 AU
minimum elong	2664 Jul 16 21:25	25°♑30'35	4°48'16	inferior conj	2665 Jun 27 03:56	6°♑08'50	-3°48'02
morning rise	2664 Jul 25 10:23	21°♑24'06		minimum elong	2665 Jun 26 19:51	6°♑20'19	3°45'59
direct	2664 Jul 28 03:27	21°♑04'54		morning rise	2665 Jul 05 20:28	2°♑17'37	
morning max el	2664 Aug 06 22:48	25°♑38'02	19°46'34	direct	2665 Jul 08 19:53	1°♑57'28	
	2664 Aug 10 21:15	0°♓		morning max el	2665 Jul 20 06:32	7°♑16'35	21°06'33
asc. node	2664 Aug 15 02:52	6°♓09'09		asc. node	2665 Aug 01 23:55	24°♑57'28	
morning set	2664 Aug 24 17:02	24°♓00'19			2665 Aug 04 16:31	0°♓	
	2664 Aug 27 15:58	0°♎		morning set	2665 Aug 09 00:47	8°♓43'36	
superior conj	2664 Sep 01 13:54	9°♎54'01	1°44'47	superior conj	2665 Aug 16 10:28	24°♓09'34	1°43'51
minimum elong	2664 Sep 01 14:32	9°♎57'11	1°44'46	minimum elong	2665 Aug 16 09:36	24°♓05'06	1°43'49
max. Earth dist.	2664 Sep 07 10:01	21°♎10'57	1.37290 AU		2665 Aug 19 07:10	0°♎	
evening rise	2664 Sep 11 04:49	28°♎07'22		max. Earth dist.	2665 Aug 20 19:29	3°♎01'23	1.35482 AU
	2664 Sep 12 06:05	0°♏		evening rise	2665 Aug 25 00:01	11°♎07'28	
desc. node	2664 Sep 21 23:41	16°♏18'15			2665 Sep 04 17:50	0°♏	
	2664 Oct 01 03:10	0°♍		desc. node	2665 Sep 08 20:41	6°♏32'10	

	2665 Sep 26 11:19	0°♌			2666 Aug 29 05:32	0°♏	
evening max el	2665 Sep 29 11:39	3°♌05'45	26°30'50	evening max el	2666 Sep 11 23:53	16°♏35'11	27°12'09
retrograde	2665 Oct 12 08:35	10°♌19'01		retrograde	2666 Sep 25 09:03	23°♏53'38	
evening set	2665 Oct 18 20:31	7°♌39'22		evening set	2666 Oct 02 07:45	21°♏10'38	
min. Earth dist.	2665 Oct 22 22:52	3°♌24'19	0.66193 AU	min. Earth dist.	2666 Oct 06 03:38	17°♏31'19	0.64930 AU
inferior conj	2665 Oct 24 14:34	1°♌24'39	-1°28'46	inferior conj	2666 Oct 08 07:35	15°♏07'28	-2°28'11
minimum elong	2665 Oct 24 16:58	1°♌17'27	1°27'46	minimum elong	2666 Oct 08 11:36	14°♏56'19	2°26'40
	2665 Oct 25 19:02	30°♏♏		morning rise	2666 Oct 14 16:26	9°♏35'33	
asc. node	2665 Oct 28 23:06	26°♏46'27		asc. node	2666 Oct 15 20:10	9°♏10'07	
morning rise	2665 Oct 30 14:01	25°♏39'15		direct	2666 Oct 17 08:21	8°♏57'59	
direct	2665 Nov 02 13:09	24°♏49'46		morning max el	2666 Oct 23 20:23	12°♏26'37	18°03'52
morning max el	2665 Nov 09 05:12	28°♏29'21	18°33'51		2666 Nov 05 02:27	0°♌	
	2665 Nov 10 15:00	0°♌		morning set	2666 Nov 10 17:56	9°♌22'53	
morning set	2665 Nov 29 13:43	28°♌17'39		desc. node	2666 Nov 22 16:59	28°♌58'24	
	2665 Nov 30 15:23	0°♏			2666 Nov 23 08:21	0°♏	
desc. node	2665 Dec 05 19:57	8°♏14'46					
				superior conj	2666 Nov 24 18:59	2°♏18'23	-0°14'05
superior conj	2665 Dec 15 11:50	23°♏27'41	-1°02'06	minimum elong	2666 Nov 24 17:13	2°♏11'23	0°13'51
minimum elong	2665 Dec 15 04:13	22°♏57'47	1°01'10	behind sun begin	2666 Nov 24 11:37	1°♏49'01	
max. Earth dist.	2665 Dec 15 19:46	23°♏58'47	1.45176 AU	behind sun end	2666 Nov 24 22:50	2°♏33'44	
	2665 Dec 19 15:48	0°♏		max. Earth dist.	2666 Nov 28 14:41	8°♏21'54	1.44927 AU
evening rise	2665 Dec 31 09:15	18°♏31'07		evening rise	2666 Dec 11 03:56	27°♏55'48	
	2666 Jan 07 14:38	0°♏			2666 Dec 12 12:06	0°♏	
greatest brilliancy	2666 Jan 09 06:36	2°♏37'38	-0.8m	greatest brilliancy	2666 Dec 24 18:51	18°♏43'32	-0.7m
evening max el	2666 Jan 22 12:19	21°♏07'53	18°59'44		2667 Jan 01 19:06	0°♏	
asc. node	2666 Jan 24 22:22	23°♏16'54		evening max el	2667 Jan 05 18:19	4°♏38'05	19°50'28
retrograde	2666 Jan 29 09:02	25°♏00'58		asc. node	2667 Jan 11 19:24	8°♏48'29	
evening set	2666 Feb 01 16:15	23°♏57'53		retrograde	2667 Jan 13 06:31	9°♏00'14	
inferior conj	2666 Feb 07 07:04	18°♏12'09	3°26'23	evening set	2667 Jan 16 21:25	7°♏43'36	
minimum elong	2666 Feb 07 05:10	18°♏18'09	3°26'07	inferior conj	2667 Jan 22 08:14	1°♏43'35	3°00'56
min. Earth dist.	2666 Feb 08 21:09	16°♏12'32	0.65747 AU	minimum elong	2667 Jan 22 05:45	1°♏51'53	3°00'21
morning rise	2666 Feb 12 17:44	12°♏00'14		min. Earth dist.	2667 Jan 23 08:03	0°♏24'25	0.66849 AU
direct	2666 Feb 19 05:55	9°♏09'34			2667 Jan 23 15:28	30°♏♏	
desc. node	2666 Mar 03 19:06	16°♏23'58		morning rise	2667 Jan 27 13:51	25°♏30'14	
morning max el	2666 Mar 04 05:04	16°♏48'50	26°36'21	direct	2667 Feb 02 13:42	22°♏49'43	
	2666 Mar 15 04:34	0°♏		morning max el	2667 Feb 14 14:00	29°♏59'39	25°21'54
	2666 Apr 03 08:42	0°♏			2667 Feb 14 14:08	0°♏	
morning set	2666 Apr 09 04:45	10°♏40'11		desc. node	2667 Feb 18 16:10	4°♏28'02	
max. Earth dist.	2666 Apr 13 09:42	18°♏49'32	1.34638 AU		2667 Mar 09 02:16	0°♏	
				morning set	2667 Mar 22 19:37	23°♏04'32	
superior conj	2666 Apr 17 21:29	27°♏55'39	-0°50'23	max. Earth dist.	2667 Mar 26 12:15	29°♏53'04	1.36356 AU
minimum elong	2666 Apr 18 00:04	28°♏09'03	0°49'54		2667 Mar 26 13:44	0°♏	
	2666 Apr 18 21:29	0°♏					
asc. node	2666 Apr 22 21:41	8°♏23'09		superior conj	2667 Apr 01 12:09	11°♏29'07	-1°17'52
evening rise	2666 Apr 25 11:34	13°♏46'07		minimum elong	2667 Apr 01 16:03	11°♏48'28	1°17'15
	2666 May 03 20:21	0°♏		evening rise	2667 Apr 09 16:21	28°♏01'12	
evening max el	2666 May 14 16:42	14°♏57'13	20°59'48	asc. node	2667 Apr 09 18:43	28°♏13'08	
retrograde	2666 May 26 08:56	20°♏39'10			2667 Apr 10 15:55	0°♏	
evening set	2666 May 28 13:11	20°♏28'01		evening max el	2667 Apr 27 03:19	26°♏21'54	19°47'01
desc. node	2666 May 30 18:17	19°♏55'22			2667 May 02 03:17	0°♏	
inferior conj	2666 Jun 06 21:31	16°♏30'05	-2°03'51	retrograde	2667 May 07 01:38	1°♏10'14	
minimum elong	2666 Jun 06 15:46	16°♏38'13	2°01'50	evening set	2667 May 09 01:39	0°♏59'24	
min. Earth dist.	2666 Jun 07 13:19	16°♏07'42	0.54889 AU		2667 May 12 07:39	30°♏♏	
morning rise	2666 Jun 15 18:14	12°♏27'50		inferior conj	2667 May 17 21:11	26°♏57'48	-0°04'16
direct	2666 Jun 19 05:13	12°♏02'01		minimum elong	2667 May 17 20:59	26°♏58'06	0°04'12
morning max el	2666 Jul 02 03:46	18°♏13'10	22°42'45	transit middle	2667 May 17 20:59	26°♏58'06	0°04'12
	2666 Jul 11 16:56	0°♏		transit begin	2667 May 17 17:11	27°♏04'00	
asc. node	2666 Jul 19 20:58	14°♏15'10		transit end	2667 May 18 00:48	26°♏52'12	
morning set	2666 Jul 24 11:25	23°♏35'44		desc. node	2667 May 17 15:20	27°♏06'51	
	2666 Jul 27 11:50	0°♏		min. Earth dist.	2667 May 20 03:00	25°♏34'52	0.55540 AU
				morning rise	2667 May 26 13:59	22°♏27'19	
superior conj	2666 Jul 31 14:20	8°♏46'50	1°36'22	direct	2667 May 30 21:07	21°♏46'23	
minimum elong	2666 Jul 31 12:28	8°♏36'55	1°36'13	morning max el	2667 Jun 13 18:41	28°♏42'13	24°25'13
max. Earth dist.	2666 Aug 03 13:44	15°♏02'39	1.34036 AU		2667 Jun 15 02:13	0°♏	
evening rise	2666 Aug 08 09:47	24°♏50'11			2667 Jul 04 19:27	0°♏	
	2666 Aug 11 02:00	0°♏		asc. node	2667 Jul 06 17:59	3°♏54'13	
desc. node	2666 Aug 26 17:40	26°♏23'11		morning set	2667 Jul 08 23:11	8°♏31'04	

superior conj	2667 Jul 15 22:50	23°♄37'00	1°23'30	superior conj	2668 Jun 29 09:55	8°♄33'28	1°06'08
minimum elong	2667 Jul 15 20:30	23°♄24'18	1°23'12	minimum elong	2668 Jun 29 07:37	8°♄20'46	1°05'45
max. Earth dist.	2667 Jul 17 16:54	27°♄24'32	1.33002 AU	max. Earth dist.	2668 Jun 30 02:25	10°♄04'02	1.32374 AU
	2667 Jul 18 21:54	0°♂		evening rise	2668 Jul 06 09:51	23°♄37'46	
evening rise	2667 Jul 23 06:07	9°♂03'27			2668 Jul 09 12:56	0°♂	
	2667 Aug 03 11:17	0°♎			2668 Jul 27 07:25	0°♎	
desc. node	2667 Aug 13 14:41	15°♎41'00		desc. node	2668 Jul 30 11:41	4°♎11'55	
evening max el	2667 Aug 25 10:39	29°♎42'26	27°26'18	evening max el	2668 Aug 06 17:20	12°♎14'00	27°08'18
	2667 Aug 25 18:07	0°♊		retrograde	2668 Aug 20 14:02	19°♎27'28	
retrograde	2667 Sep 08 03:08	6°♊59'23		evening set	2668 Aug 27 16:24	17°♎10'58	
evening set	2667 Sep 15 07:42	4°♊23'25		min. Earth dist.	2668 Aug 31 07:35	14°♎27'24	0.61435 AU
min. Earth dist.	2667 Sep 18 22:58	1°♊16'23	0.63326 AU	inferior conj	2668 Sep 03 10:22	11°♎42'51	-4°16'18
	2667 Sep 20 05:54	30°♋♎		minimum elong	2668 Sep 03 15:47	11°♎30'52	4°15'07
inferior conj	2667 Sep 21 15:14	28°♎36'09	-3°25'37	morning rise	2668 Sep 10 16:50	6°♎48'11	
minimum elong	2667 Sep 21 20:30	28°♎22'59	3°24'00	direct	2668 Sep 13 02:29	6°♎24'16	
morning rise	2667 Sep 28 10:37	23°♎21'05		asc. node	2668 Sep 18 14:16	8°♎34'03	
direct	2667 Sep 30 22:00	22°♎51'50		morning max el	2668 Sep 20 03:12	9°♎55'14	17°57'26
asc. node	2667 Oct 02 17:13	23°♎07'40			2668 Oct 03 07:33	0°♊	
morning max el	2667 Oct 07 12:43	26°♎17'34	17°51'24	morning set	2668 Oct 05 23:29	4°♊52'02	
	2667 Oct 10 16:51	0°♊					
morning set	2667 Oct 23 23:20	21°♊40'45		superior conj	2668 Oct 16 08:04	23°♊30'41	1°06'03
	2667 Oct 28 18:15	0°♋		minimum elong	2668 Oct 16 12:30	23°♊50'01	1°05'31
					2668 Oct 20 02:34	0°♋	
superior conj	2667 Nov 04 24:00	12°♋14'47	0°31'03	max. Earth dist.	2668 Oct 23 20:44	6°♋17'17	1.42433 AU
minimum elong	2667 Nov 05 03:05	12°♋27'33	0°30'37	desc. node	2668 Oct 26 11:03	10°♋32'09	
desc. node	2667 Nov 09 14:01	19°♋45'16		evening rise	2668 Oct 30 04:20	16°♋29'38	
max. Earth dist.	2667 Nov 11 07:49	22°♋33'40	1.43974 AU		2668 Nov 07 22:45	0°♌	
	2667 Nov 16 00:21	0°♌			2668 Nov 29 23:42	0°♌	
evening rise	2667 Nov 20 12:46	7°♌01'39		evening max el	2668 Dec 01 14:07	1°♌41'38	22°09'30
	2667 Dec 05 20:19	0°♍		retrograde	2668 Dec 11 00:48	7°♌18'47	
evening max el	2667 Dec 19 18:59	18°♍09'22	20°54'57	evening set	2668 Dec 15 12:22	5°♍30'51	
retrograde	2667 Dec 28 04:21	23°♍07'17		asc. node	2668 Dec 15 13:30	5°♍28'31	
asc. node	2667 Dec 29 16:27	22°♍54'45			2668 Dec 20 06:41	30°♋♌	
evening set	2668 Jan 01 04:41	21°♍35'36		inferior conj	2668 Dec 20 20:47	29°♌11'11	1°43'59
inferior conj	2668 Jan 06 13:30	15°♍24'09	2°26'13	minimum elong	2668 Dec 20 18:40	29°♌18'31	1°43'11
minimum elong	2668 Jan 06 10:57	15°♍32'52	2°25'25	min. Earth dist.	2668 Dec 20 20:15	29°♌13'02	0.67865 AU
min. Earth dist.	2668 Jan 07 00:30	14°♍46'19	0.67547 AU	morning rise	2668 Dec 26 00:51	23°♌00'15	
morning rise	2668 Jan 11 17:02	9°♍11'10		direct	2668 Dec 30 19:07	21°♌00'24	
direct	2668 Jan 17 02:21	6°♍48'58		morning max el	2669 Jan 09 09:07	26°♌39'37	22°27'16
morning max el	2668 Jan 27 22:23	13°♍16'25	23°55'36		2669 Jan 12 10:58	0°♍	
desc. node	2668 Feb 05 13:13	23°♍23'26		desc. node	2669 Jan 22 10:17	12°♍55'29	
	2668 Feb 10 10:44	0°♎			2669 Feb 03 01:07	0°♎	
	2668 Feb 29 22:58	0°♏		morning set	2669 Feb 12 02:07	14°♎17'46	
morning set	2668 Mar 03 12:41	4°♏21'53		max. Earth dist.	2669 Feb 17 04:39	22°♎47'06	1.40572 AU
max. Earth dist.	2668 Mar 07 07:59	11°♏00'51	1.38410 AU		2669 Feb 21 09:09	0°♏	
superior conj	2668 Mar 14 14:26	24°♏22'39	-1°42'04	superior conj	2669 Feb 24 23:40	6°♏24'05	-1°59'36
minimum elong	2668 Mar 14 18:52	24°♏43'43	1°41'35	minimum elong	2669 Feb 25 03:00	6°♏39'06	1°59'25
	2668 Mar 17 12:50	0°♐		evening rise	2669 Mar 07 01:51	25°♏06'24	
evening rise	2668 Mar 23 14:11	11°♐50'50			2669 Mar 09 16:28	0°♐	
asc. node	2668 Mar 26 15:45	17°♐47'44		asc. node	2669 Mar 13 12:48	7°♐00'35	
	2668 Apr 02 12:38	0°♑		evening max el	2669 Mar 23 06:50	21°♐02'38	18°20'43
evening max el	2668 Apr 09 01:00	8°♑26'16	18°53'48	retrograde	2669 Mar 30 13:12	24°♐39'08	
retrograde	2668 Apr 17 09:51	12°♑30'46		evening set	2669 Apr 01 23:47	24°♐15'43	
evening set	2668 Apr 19 14:19	12°♑15'11		inferior conj	2669 Apr 09 05:05	19°♐37'56	2°48'38
inferior conj	2668 Apr 27 14:27	7°♑57'39	1°38'17	minimum elong	2669 Apr 09 08:46	19°♐30'11	2°47'47
minimum elong	2668 Apr 27 17:52	7°♑51'32	1°37'12	min. Earth dist.	2669 Apr 12 15:34	16°♐46'20	0.59003 AU
min. Earth dist.	2668 Apr 30 19:03	5°♑41'33	0.57013 AU	morning rise	2669 Apr 16 15:02	14°♐03'28	
desc. node	2668 May 03 12:22	3°♑58'53		desc. node	2669 Apr 20 09:25	12°♐36'09	
morning rise	2668 May 05 18:17	2°♑52'31		direct	2669 Apr 22 20:24	12°♐19'59	
direct	2668 May 11 02:03	1°♑44'35		morning max el	2669 May 07 05:26	20°♐05'15	27°09'58
morning max el	2668 May 25 09:36	9°♑10'58	25°59'22		2669 May 15 17:08	0°♑	
	2668 Jun 10 02:16	0°♒			2669 Jun 02 19:14	0°♒	
morning set	2668 Jun 22 10:32	23°♒24'43		morning set	2669 Jun 06 19:44	8°♒10'09	
asc. node	2668 Jun 22 15:02	23°♒48'29		asc. node	2669 Jun 09 12:05	13°♒51'56	
	2668 Jun 25 12:14	0°♓					
				superior conj	2669 Jun 13 21:44	23°♒29'13	0°44'59

minimum elong	2669 Jun 13 19:54	23° Π 19'09	0°44'37	max. Earth dist.	2670 May 28 01:18	5° Π 28'01	1.32280 AU
max. Earth dist.	2669 Jun 13 14:32	22° Π 49'33	1.32131 AU				
	2669 Jun 16 20:48	0° \mathfrak{S}		superior conj	2670 May 29 08:33	8° Π 18'36	0°20'43
evening rise	2669 Jun 20 18:19	8° \mathfrak{S} 23'53		minimum elong	2670 May 29 07:37	8° Π 13'29	0°20'31
	2669 Jul 01 23:31	0° Ω		evening rise	2670 Jun 05 05:24	23° Π 14'51	
desc. node	2669 Jul 17 08:42	21° Ω 36'09			2670 Jun 08 11:22	0° \mathfrak{S}	
evening max el	2669 Jul 19 17:15	23° Ω 59'06	26°17'18		2670 Jun 26 19:53	0° Ω	
	2669 Jul 28 07:16	0° \mathfrak{M}		evening max el	2670 Jul 01 10:05	4° Ω 58'29	24°58'33
retrograde	2669 Aug 02 16:46	1° \mathfrak{M} 09'54		desc. node	2670 Jul 04 05:43	7° Ω 26'47	
	2669 Aug 08 00:04	30° \mathfrak{R} Ω		retrograde	2670 Jul 15 09:25	12° Ω 03'42	
evening set	2669 Aug 09 05:06	29° Ω 25'18		evening set	2670 Jul 20 18:07	10° Ω 58'01	
min. Earth dist.	2669 Aug 13 06:10	26° Ω 49'44	0.59373 AU	min. Earth dist.	2670 Jul 25 21:38	8° Ω 11'37	0.57385 AU
inferior conj	2669 Aug 16 13:23	24° Ω 17'58	-4°52'21	inferior conj	2670 Jul 28 21:09	6° Ω 12'29	-5°01'34
minimum elong	2669 Aug 16 16:51	24° Ω 11'17	4°51'59	minimum elong	2670 Jul 28 19:57	6° Ω 14'30	5°01'31
morning rise	2669 Aug 24 06:43	19° Ω 46'11		morning rise	2670 Aug 06 00:24	2° Ω 02'45	
direct	2669 Aug 26 17:20	19° Ω 25'26		direct	2670 Aug 08 14:22	1° Ω 43'29	
morning max el	2669 Sep 03 12:41	23° Ω 11'16	18°23'14	morning max el	2670 Aug 17 13:57	5° Ω 56'03	19°09'59
asc. node	2669 Sep 05 11:19	25° Ω 15'28		asc. node	2670 Aug 23 08:22	12° Ω 56'40	
	2669 Sep 09 00:07	0° \mathfrak{M}			2670 Sep 01 23:47	0° \mathfrak{M}	
morning set	2669 Sep 19 13:01	18° \mathfrak{M} 41'31		morning set	2670 Sep 03 11:52	2° \mathfrak{M} 58'05	
	2669 Sep 25 11:20	0° \mathfrak{L}					
				superior conj	2670 Sep 11 17:39	19° \mathfrak{M} 15'38	1°41'47
superior conj	2669 Sep 28 15:50	5° \mathfrak{L} 56'27	1°29'18	minimum elong	2670 Sep 11 19:20	19° \mathfrak{M} 23'42	1°41'42
minimum elong	2669 Sep 28 19:18	6° \mathfrak{L} 12'20	1°28'59		2670 Sep 17 10:24	0° \mathfrak{L}	
max. Earth dist.	2669 Oct 06 03:58	19° \mathfrak{L} 18'34	1.40499 AU	max. Earth dist.	2670 Sep 18 07:38	1° \mathfrak{L} 36'46	1.38433 AU
evening rise	2669 Oct 10 15:40	26° \mathfrak{L} 52'41		evening rise	2670 Sep 22 02:52	8° \mathfrak{L} 22'08	
	2669 Oct 12 13:22	0° \mathfrak{M}		desc. node	2670 Sep 30 05:04	21° \mathfrak{L} 51'46	
desc. node	2669 Oct 13 08:04	1° \mathfrak{M} 15'45			2670 Oct 05 10:41	0° \mathfrak{M}	
	2669 Nov 01 14:58	0° \mathfrak{X}		evening max el	2670 Oct 27 17:16	28° \mathfrak{M} 54'42	24°47'40
evening max el	2669 Nov 14 04:50	15° \mathfrak{X} 16'21	23°29'10		2670 Oct 28 20:31	0° \mathfrak{X}	
retrograde	2669 Nov 24 18:28	21° \mathfrak{X} 31'27		retrograde	2670 Nov 08 08:10	5° \mathfrak{X} 40'30	
evening set	2669 Nov 29 18:48	19° \mathfrak{X} 26'50		evening set	2670 Nov 13 22:21	3° \mathfrak{X} 20'01	
asc. node	2669 Dec 02 10:32	16° \mathfrak{X} 40'11			2670 Nov 17 01:34	30° \mathfrak{R} \mathfrak{M}	
min. Earth dist.	2669 Dec 04 16:59	13° \mathfrak{X} 41'30	0.67828 AU	min. Earth dist.	2670 Nov 18 12:19	28° \mathfrak{M} 08'28	0.67458 AU
inferior conj	2669 Dec 05 04:16	13° \mathfrak{X} 02'53	0°55'36	inferior conj	2670 Nov 19 10:10	26° \mathfrak{M} 56'05	0°02'13
minimum elong	2669 Dec 05 03:00	13° \mathfrak{X} 07'13	0°55'05	minimum elong	2670 Nov 19 10:06	26° \mathfrak{M} 56'17	0°02'12
morning rise	2669 Dec 10 11:09	6° \mathfrak{X} 55'47		transit middle	2670 Nov 19 10:06	26° \mathfrak{M} 56'17	0°02'12
direct	2669 Dec 14 15:07	5° \mathfrak{X} 18'47		transit begin	2670 Nov 19 07:22	27° \mathfrak{M} 05'20	
morning max el	2669 Dec 23 01:35	10° \mathfrak{X} 12'35	21°05'06	transit end	2670 Nov 19 12:50	26° \mathfrak{M} 47'14	
	2670 Jan 07 07:41	0° \mathfrak{Z}		asc. node	2670 Nov 19 07:35	27° \mathfrak{M} 04'38	
desc. node	2670 Jan 09 07:20	2° \mathfrak{Z} 54'08		morning rise	2670 Nov 24 21:59	20° \mathfrak{M} 55'08	
morning set	2670 Jan 22 11:43	22° \mathfrak{Z} 57'06		direct	2670 Nov 28 13:11	19° \mathfrak{M} 39'06	
	2670 Jan 26 22:26	0° \approx		morning max el	2670 Dec 06 01:39	23° \mathfrak{M} 55'48	19°54'30
max. Earth dist.	2670 Jan 30 07:19	5° \approx 27'11	1.42550 AU		2670 Dec 11 05:52	0° \mathfrak{X}	
				desc. node	2670 Dec 27 04:20	23° \mathfrak{X} 11'24	
superior conj	2670 Feb 06 10:43	17° \approx 22'02	-2°05'53		2670 Dec 31 14:53	0° \mathfrak{Z}	
minimum elong	2670 Feb 06 10:21	17° \approx 20'25	2°05'53	morning set	2671 Jan 01 07:36	1° \mathfrak{Z} 04'28	
	2670 Feb 13 16:46	0° \mathfrak{X}		max. Earth dist.	2671 Jan 12 17:21	18° \mathfrak{Z} 56'46	1.44085 AU
evening rise	2670 Feb 17 23:31	7° \mathfrak{X} 39'38					
asc. node	2670 Feb 28 09:50	25° \mathfrak{X} 44'50		superior conj	2671 Jan 17 19:41	27° \mathfrak{Z} 08'45	-1°55'48
	2670 Mar 03 07:20	0° \mathfrak{Y}		minimum elong	2671 Jan 17 13:40	26° \mathfrak{Z} 44'18	1°55'27
evening max el	2670 Mar 06 17:37	4° \mathfrak{Y} 03'02	18°07'27		2671 Jan 19 13:41	0° \approx	
retrograde	2670 Mar 13 09:02	7° \mathfrak{Y} 27'11		evening rise	2671 Jan 31 02:41	19° \approx 21'09	
evening set	2670 Mar 16 01:21	6° \mathfrak{Y} 54'03			2671 Feb 06 08:25	0° \mathfrak{X}	
inferior conj	2670 Mar 22 15:15	1° \mathfrak{Y} 55'42	3°27'20	asc. node	2671 Feb 15 06:52	13° \mathfrak{X} 51'08	
minimum elong	2670 Mar 22 17:23	1° \mathfrak{Y} 50'32	3°27'04	evening max el	2671 Feb 18 06:15	17° \mathfrak{X} 18'56	18°13'27
	2670 Mar 24 14:48	30° \mathfrak{R} \mathfrak{X}		retrograde	2671 Feb 24 16:54	20° \mathfrak{X} 44'46	
min. Earth dist.	2670 Mar 25 19:09	28° \mathfrak{X} 53'05	0.61167 AU	evening set	2671 Feb 27 14:41	20° \mathfrak{X} 00'39	
morning rise	2670 Mar 29 07:36	26° \mathfrak{X} 02'10		inferior conj	2671 Mar 05 17:02	14° \mathfrak{X} 42'36	3°40'55
direct	2670 Apr 05 02:18	23° \mathfrak{X} 44'10		minimum elong	2671 Mar 05 17:16	14° \mathfrak{X} 42'00	3°40'56
desc. node	2670 Apr 07 06:29	23° \mathfrak{X} 57'30		min. Earth dist.	2671 Mar 08 07:33	11° \mathfrak{X} 52'33	0.63207 AU
	2670 Apr 17 13:40	0° \mathfrak{Y}		morning rise	2671 Mar 11 18:52	8° \mathfrak{X} 38'29	
morning max el	2670 Apr 19 07:35	1° \mathfrak{Y} 39'27	27°46'19	direct	2671 Mar 18 17:14	5° \mathfrak{X} 56'33	
	2670 May 09 23:16	0° \mathfrak{Z}		desc. node	2671 Mar 25 03:31	7° \mathfrak{X} 53'52	
morning set	2670 May 22 00:54	22° \mathfrak{Z} 41'09		morning max el	2671 Apr 01 14:36	13° \mathfrak{X} 53'20	27°45'15
	2670 May 25 12:33	0° Π			2671 Apr 14 14:37	0° \mathfrak{Y}	
asc. node	2670 May 27 09:07	4° Π 00'05			2671 May 02 12:01	0° \mathfrak{Z}	

morning set	2671 May 05 23:50	6°♄50'28		morning set	2672 Apr 07 05:06	0°♃	
max. Earth dist.	2671 May 11 06:55	17°♄47'05	1.32841 AU	max. Earth dist.	2672 Apr 18 13:32	20°♃28'30	
					2672 Apr 23 03:37	29°♃36'16	1.33853 AU
superior conj	2671 May 13 16:38	22°♄55'55	-0°05'57		2672 Apr 23 08:16	0°♄	
minimum elong	2671 May 13 16:55	22°♄57'28	0°05'53				
behind sun begin	2671 May 13 12:00	22°♄30'56		superior conj	2672 Apr 26 19:57	7°♄14'14	-0°34'02
behind sun end	2671 May 13 21:51	23°♄24'01		minimum elong	2672 Apr 26 21:41	7°♄23'22	0°33'41
asc. node	2671 May 14 06:10	24°♄08'55		asc. node	2672 Apr 30 03:11	14°♄13'50	
	2671 May 16 23:00	0°♂		evening rise	2672 May 04 03:58	22°♄46'03	
evening rise	2671 May 20 17:14	8°♂04'31			2672 May 07 16:39	0°♂	
	2671 Jun 01 04:47	0°♂		evening max el	2672 May 24 17:07	26°♂02'34	21°49'23
evening max el	2671 Jun 12 23:42	15°♂30'03	23°24'12		2672 May 29 18:10	0°♂	
desc. node	2671 Jun 21 02:43	21°♂09'51		retrograde	2672 Jun 06 05:55	2°♂12'54	
retrograde	2671 Jun 26 13:36	22°♂17'23		desc. node	2672 Jun 06 23:45	2°♂11'38	
evening set	2671 Jun 30 10:19	21°♂44'42		evening set	2672 Jun 08 20:30	1°♂57'39	
min. Earth dist.	2671 Jul 07 09:40	18°♂32'40	0.55805 AU		2672 Jun 14 08:26	30°♂♂	
inferior conj	2671 Jul 09 09:02	17°♂22'36	-4°29'12	inferior conj	2672 Jun 18 05:54	27°♂54'39	-3°07'58
minimum elong	2671 Jul 09 02:27	17°♂32'23	4°28'02	minimum elong	2672 Jun 17 22:04	28°♂05'36	3°05'36
morning rise	2671 Jul 17 21:05	13°♂28'09		min. Earth dist.	2672 Jun 17 20:55	28°♂07'13	0.54961 AU
direct	2671 Jul 20 16:28	13°♂08'49		morning rise	2672 Jun 27 00:56	24°♂01'21	
morning max el	2671 Jul 31 04:25	18°♂00'51	20°18'09	direct	2672 Jun 30 04:40	23°♂39'25	
	2671 Aug 09 09:15	0°♂		morning max el	2672 Jul 12 07:13	29°♂20'19	21°45'52
asc. node	2671 Aug 10 05:24	1°♂24'22			2672 Jul 12 23:52	0°♂	
morning set	2671 Aug 18 17:06	17°♂34'14		asc. node	2672 Jul 27 02:26	20°♂26'27	
	2671 Aug 24 18:18	0°♂			2672 Jul 31 22:48	0°♂	
				morning set	2672 Aug 02 02:20	2°♂22'22	
superior conj	2671 Aug 26 08:36	3°♂14'35	1°45'16				
minimum elong	2671 Aug 26 08:33	3°♂14'19	1°45'15	superior conj	2672 Aug 09 08:39	17°♂40'30	1°41'23
max. Earth dist.	2671 Aug 31 13:42	13°♂31'49	1.36484 AU	minimum elong	2672 Aug 09 07:18	17°♂33'25	1°41'19
evening rise	2671 Sep 04 11:46	20°♂53'20		max. Earth dist.	2672 Aug 13 03:03	25°♂26'33	1.34826 AU
	2671 Sep 09 14:51	0°♂			2672 Aug 15 09:44	0°♂	
desc. node	2671 Sep 17 02:04	12°♂15'50		evening rise	2672 Aug 17 13:44	4°♂13'15	
	2671 Sep 29 09:00	0°♂			2672 Sep 01 10:19	0°♂	
evening max el	2671 Oct 10 05:30	12°♂35'55	25°57'32	desc. node	2672 Sep 02 23:05	2°♂21'12	
retrograde	2671 Oct 22 17:00	19°♂41'36		evening max el	2672 Sep 21 17:57	26°♂12'26	26°51'17
evening set	2671 Oct 28 21:16	17°♂07'49			2672 Sep 26 04:59	0°♂	
min. Earth dist.	2671 Nov 02 03:49	12°♂31'41	0.66758 AU	retrograde	2672 Oct 04 20:26	3°♂27'58	
inferior conj	2671 Nov 03 12:42	10°♂48'33	-0°54'49	evening set	2672 Oct 11 13:28	0°♂46'01	
minimum elong	2671 Nov 03 14:08	10°♂44'01	0°54'12		2672 Oct 12 10:49	30°♂♂	
asc. node	2671 Nov 06 04:37	7°♂37'59		min. Earth dist.	2672 Oct 15 13:03	26°♂46'19	0.65706 AU
morning rise	2671 Nov 09 07:22	4°♂56'25		inferior conj	2672 Oct 17 09:50	24°♂35'57	-1°53'58
direct	2671 Nov 12 11:48	3°♂58'11		minimum elong	2672 Oct 17 12:56	24°♂26'55	1°52'44
morning max el	2671 Nov 19 09:10	7°♂48'13	18°58'37	asc. node	2672 Oct 23 01:39	19°♂11'43	
	2671 Dec 05 06:55	0°♂		morning rise	2672 Oct 23 13:05	18°♂55'49	
morning set	2671 Dec 11 15:16	9°♂54'51		direct	2672 Oct 26 08:59	18°♂11'43	
desc. node	2671 Dec 14 01:21	13°♂42'12		morning max el	2672 Nov 01 22:18	21°♂45'13	18°19'00
	2671 Dec 24 11:01	0°♂			2672 Nov 08 09:38	0°♂	
max. Earth dist.	2671 Dec 26 09:35	3°♂02'57	1.44991 AU	morning set	2672 Nov 21 02:40	20°♂10'27	
					2672 Nov 27 04:48	0°♂	
superior conj	2671 Dec 28 05:29	5°♂55'50	-1°26'27	desc. node	2672 Nov 29 22:24	4°♂22'11	
minimum elong	2671 Dec 27 20:29	5°♂20'22	1°25'31				
evening rise	2672 Jan 12 07:36	0°♂05'45		superior conj	2672 Dec 06 07:12	14°♂27'09	-0°42'04
	2672 Jan 12 06:11	0°♂		minimum elong	2672 Dec 06 01:49	14°♂05'56	0°41'22
	2672 Feb 01 01:25	0°♂		max. Earth dist.	2672 Dec 08 04:53	17°♂26'44	1.45164 AU
evening max el	2672 Feb 01 18:01	0°♂43'45	18°37'52		2672 Dec 16 05:13	0°♂	
asc. node	2672 Feb 02 03:54	1°♂08'21		evening rise	2672 Dec 22 13:30	9°♂55'49	
retrograde	2672 Feb 08 08:41	4°♂23'32		greatest brilliancy	2673 Jan 02 15:43	27°♂12'52	-0.8m
evening set	2672 Feb 11 12:17	3°♂27'30			2673 Jan 04 11:38	0°♂	
	2672 Feb 15 10:25	30°♂♂		evening max el	2673 Jan 15 02:36	14°♂12'42	19°19'28
inferior conj	2672 Feb 17 06:28	27°♂51'14	3°35'51	asc. node	2673 Jan 19 00:56	17°♂22'57	
minimum elong	2672 Feb 17 05:11	27°♂55'08	3°35'44	retrograde	2673 Jan 22 04:59	18°♂17'02	
min. Earth dist.	2672 Feb 19 05:20	25°♂30'35	0.64935 AU	evening set	2673 Jan 25 15:21	17°♂08'08	
morning rise	2672 Feb 22 21:37	21°♂41'29		inferior conj	2673 Jan 31 04:11	11°♂15'50	3°16'53
direct	2672 Feb 29 15:19	18°♂50'10		minimum elong	2673 Jan 31 01:57	11°♂23'01	3°16'28
desc. node	2672 Mar 11 00:33	23°♂51'27		min. Earth dist.	2673 Feb 01 11:54	9°♂33'24	0.66264 AU
morning max el	2672 Mar 14 00:05	26°♂38'37	27°09'45	morning rise	2673 Feb 05 12:18	5°♂03'14	
	2672 Mar 17 03:20	0°♂		direct	2673 Feb 11 19:35	2°♂15'57	

morning max el	2673 Feb 24 09:45	9°  43'57	26°06'57	direct	2674 Jan 26 05:23	16°  04'43	
desc. node	2673 Feb 25 21:35	11°  17'10		morning max el	2674 Feb 06 18:28	22°  58'22	24°46'08
	2673 Mar 12 10:01	0°  X		desc. node	2674 Feb 12 18:38	29°  34'50	
	2673 Mar 30 17:47	0°  Y			2674 Feb 12 23:28	0°  X	
morning set	2673 Apr 01 14:12	3°  Y24'11			2674 Mar 05 18:28	0°  X	
max. Earth dist.	2673 Apr 05 13:08	10°  Y54'55	1.35321 AU	morning set	2674 Mar 14 20:34	15°  X22'01	
				max. Earth dist.	2674 Mar 18 12:07	21°  X56'25	1.37196 AU
	2674 Mar 22 19:19	0°  Y					
superior conj	2673 Apr 10 16:07	21°  Y06'36	-1°02'15				
minimum elong	2673 Apr 10 19:18	21°  Y22'51	1°01'41				
	2673 Apr 14 23:48	0°  X		superior conj	2674 Mar 25 01:56	4°  Y23'47	-1°28'43
asc. node	2673 Apr 17 00:14	4°  X10'58		minimum elong	2674 Mar 25 06:12	4°  Y44'35	1°28'07
evening rise	2673 Apr 18 11:36	7°  X13'14		evening rise	2674 Apr 02 13:45	21°  Y18'12	
	2673 May 01 00:54	0°  II		asc. node	2674 Apr 03 21:17	23°  Y55'03	
evening max el	2673 May 06 20:39	7°  II03'57	20°26'31		2674 Apr 07 00:23	0°  X	
retrograde	2673 May 17 19:10	12°  II23'11		evening max el	2674 Apr 19 12:07	18°  X45'25	19°21'55
evening set	2673 May 19 20:05	12°  II12'52		retrograde	2674 Apr 28 17:45	23°  X13'50	
desc. node	2673 May 24 20:46	10°  II30'47		evening set	2674 Apr 30 18:53	23°  X01'36	
inferior conj	2673 May 29 00:17	8°  II14'51	-1°12'55	inferior conj	2674 May 09 06:28	18°  X54'10	0°42'39
minimum elong	2673 May 28 20:51	8°  II19'52	1°11'38	minimum elong	2674 May 09 08:13	18°  X51'17	0°42'02
min. Earth dist.	2673 May 30 09:21	7°  II26'47	0.55055 AU	desc. node	2674 May 11 17:48	17°  X16'59	
morning rise	2673 Jun 06 20:35	4°  II02'35		min. Earth dist.	2674 May 12 00:03	17°  X07'01	0.56077 AU
direct	2673 Jun 10 15:03	3°  II31'57		morning rise	2674 May 17 18:38	14°  X08'31	
morning max el	2673 Jun 24 01:08	10°  II02'48	23°26'21	direct	2674 May 22 11:51	13°  X17'40	
	2673 Jul 08 17:05	0°  X		morning max el	2674 Jun 05 15:31	20°  X28'54	25°07'16
asc. node	2673 Jul 13 23:30	9°  X54'16			2674 Jun 13 19:29	0°  II	
morning set	2673 Jul 17 13:41	17°  X16'50		asc. node	2674 Jun 30 20:33	29°  II40'39	
	2673 Jul 23 11:59	0°  X			2674 Jul 01 00:16	0°  X	
				morning set	2674 Jul 02 01:29	2°  X12'21	
superior conj	2673 Jul 24 14:47	2°  X24'19	1°31'30				
minimum elong	2673 Jul 24 12:40	2°  X12'52	1°31'17	superior conj	2674 Jul 09 00:39	17°  X18'19	1°16'38
max. Earth dist.	2673 Jul 27 01:24	7°  X36'46	1.33550 AU	minimum elong	2674 Jul 08 22:16	17°  X05'17	1°16'18
evening rise	2673 Aug 01 04:26	18°  X10'03		max. Earth dist.	2674 Jul 10 07:30	20°  X06'28	1.32682 AU
	2673 Aug 07 09:06	0°  X			2674 Jul 14 22:38	0°  X	
desc. node	2673 Aug 20 20:06	21°  X59'38		evening rise	2674 Jul 16 04:15	2°  X33'25	
	2673 Aug 26 17:15	0°  X			2674 Jul 31 05:06	0°  X	
evening max el	2673 Sep 04 05:41	9°  X33'27	27°21'40	desc. node	2674 Aug 07 17:07	10°  X59'55	
retrograde	2673 Sep 17 18:08	16°  X51'38		evening max el	2674 Aug 17 14:51	22°  X26'49	27°22'41
evening set	2673 Sep 24 20:18	14°  X09'54		retrograde	2674 Aug 31 09:37	29°  X43'15	
min. Earth dist.	2673 Sep 28 13:49	10°  X45'21	0.64294 AU	evening set	2674 Sep 07 14:25	27°  X13'39	
inferior conj	2673 Sep 30 23:11	8°  X13'15	-2°53'00	min. Earth dist.	2674 Sep 11 04:40	24°  X18'12	0.62548 AU
minimum elong	2673 Oct 01 03:49	8°  X00'56	2°51'24	inferior conj	2674 Sep 14 01:57	21°  X34'01	-3°48'21
morning rise	2673 Oct 07 12:26	2°  X48'22		minimum elong	2674 Sep 14 07:29	21°  X20'53	3°46'50
asc. node	2673 Oct 09 22:43	2°  X14'50		morning rise	2674 Sep 21 02:04	16°  X27'32	
direct	2673 Oct 10 02:08	2°  X14'43		direct	2674 Sep 23 12:14	16°  X01'01	
morning max el	2673 Oct 16 14:23	5°  X40'49	17°56'25	asc. node	2674 Sep 26 19:46	16°  X51'59	
	2673 Nov 01 16:46	0°  X		morning max el	2674 Sep 30 06:25	19°  X28'04	17°51'40
morning set	2673 Nov 02 18:19	1°  X48'40			2674 Oct 08 00:05	0°  X	
				morning set	2674 Oct 16 08:30	14°  X31'51	
					2674 Oct 25 03:30	0°  X	
superior conj	2673 Nov 15 22:11	23°  X41'52	0°06'02				
minimum elong	2673 Nov 15 22:53	23°  X44'42	0°05'56				
behind sun begin	2673 Nov 15 13:19	23°  X05'58		superior conj	2674 Oct 27 14:54	4°  X13'25	0°47'19
behind sun end	2673 Nov 16 08:28	24°  X23'23		minimum elong	2674 Oct 27 18:57	4°  X30'33	0°46'46
desc. node	2673 Nov 16 19:25	25°  X07'32		max. Earth dist.	2674 Nov 03 14:44	15°  X48'26	1.43375 AU
	2673 Nov 19 20:26	0°  X		desc. node	2674 Nov 03 16:27	15°  X55'23	
max. Earth dist.	2673 Nov 20 23:35	1°  X47'49	1.44599 AU	evening rise	2674 Nov 11 11:48	28°  X18'12	
evening rise	2673 Dec 02 02:08	19°  X07'39			2674 Nov 12 14:04	0°  X	
	2673 Dec 09 04:55	0°  X			2674 Dec 03 00:04	0°  X	
evening max el	2673 Dec 29 06:18	27°  X42'46	20°16'24	evening max el	2674 Dec 12 04:29	11°  X14'24	21°25'40
	2673 Dec 31 17:59	0°  X		retrograde	2674 Dec 21 00:30	16°  X29'23	
asc. node	2674 Jan 05 21:59	2°  X19'41		asc. node	2674 Dec 23 19:01	15°  X34'07	
retrograde	2674 Jan 06 02:58	2°  X19'55		evening set	2674 Dec 25 05:17	14°  X35'06	
evening set	2674 Jan 09 21:38	0°  X56'59		inferior conj	2674 Dec 30 13:44	8°  X35'37	2°09'08
	2674 Jan 11 00:50	30°  X3		minimum elong	2674 Dec 30 11:19	8°  X43'58	2°08'19
inferior conj	2674 Jan 15 07:21	24° X51'27	2°47'14	min. Earth dist.	2674 Dec 30 19:45	8° X14'48	0.67725 AU
minimum elong	2674 Jan 15 04:47	25° X00'10	2°46'32	morning rise	2675 Jan 04 17:11	2° X23'01	
min. Earth dist.	2674 Jan 16 01:28	23° X50'09	0.67186 AU	direct	2675 Jan 09 20:02	0° X	
morning rise	2674 Jan 20 11:43	18° X37'56		morning max el	2675 Jan 20 03:25	6° X17'46	23°17'38

desc. node	2675 Jan 30 15:42	18° ☿ 57'48		morning rise	2675 Dec 20 02:18	16° ☿ 15'25	
	2675 Feb 07 11:41	0° ☿		direct	2675 Dec 24 14:26	14° ☿ 25'08	
morning set	2675 Feb 24 02:25	26° ☿ 05'53		morning max el	2676 Jan 02 16:00	19° ☿ 44'06	21°51'03
	2675 Feb 26 09:39	0° ☿			2676 Jan 11 05:56	0° ☿	
max. Earth dist.	2675 Feb 28 06:38	3° ☿ 14'07	1.39331 AU	desc. node	2676 Jan 17 12:45	8° ☿ 42'24	
					2676 Jan 31 16:53	0° ☿	
superior conj	2675 Mar 07 21:31	16° ☿ 56'13	-1°50'35	morning set	2676 Feb 04 03:18	5° ☿ 26'25	
minimum elong	2675 Mar 08 01:45	17° ☿ 15'53	1°50'13	max. Earth dist.	2676 Feb 10 05:11	15° ☿ 21'54	1.41456 AU
	2675 Mar 14 18:44	0° ☿					
evening rise	2675 Mar 17 07:38	4° ☿ 53'51		superior conj	2676 Feb 17 21:59	28° ☿ 32'33	-2°03'57
asc. node	2675 Mar 21 18:19	13° ☿ 20'59		minimum elong	2676 Feb 18 00:05	28° ☿ 41'48	2°03'54
	2675 Apr 01 12:40	0° ☿			2676 Feb 18 17:49	0° ☿	
evening max el	2675 Apr 02 13:41	1° ☿ 04'24	18°37'20	evening rise	2676 Feb 28 13:49	17° ☿ 52'23	
retrograde	2675 Apr 10 09:50	4° ☿ 54'43			2676 Mar 06 06:07	0° ☿	
evening set	2675 Apr 12 16:51	4° ☿ 36'11		asc. node	2676 Mar 07 15:21	2° ☿ 22'46	
inferior conj	2675 Apr 20 08:42	0° ☿ 10'39	2°12'16	evening max el	2676 Mar 15 22:05	13° ☿ 52'42	18°12'43
minimum elong	2675 Apr 20 12:34	0° ☿ 03'14	2°11'10	retrograde	2676 Mar 22 20:30	17° ☿ 21'42	
	2675 Apr 20 14:15	30° ☿		evening set	2676 Mar 25 09:45	16° ☿ 54'11	
min. Earth dist.	2675 Apr 23 17:55	27° ☿ 36'24	0.57816 AU	inferior conj	2676 Apr 01 08:01	12° ☿ 07'39	3°08'32
morning rise	2675 Apr 28 05:09	24° ☿ 51'49		minimum elong	2676 Apr 01 11:10	12° ☿ 00'36	3°07'58
desc. node	2675 Apr 28 14:51	24° ☿ 40'44		min. Earth dist.	2676 Apr 04 16:57	9° ☿ 08'21	0.59925 AU
direct	2675 May 03 23:03	23° ☿ 28'54		morning rise	2676 Apr 08 10:16	6° ☿ 24'14	
	2675 May 17 04:17	0° ☿		desc. node	2676 Apr 14 11:54	4° ☿ 25'47	
morning max el	2675 May 18 07:59	1° ☿ 05'19	26°33'02	direct	2676 Apr 14 22:42	4° ☿ 25'14	
	2675 Jun 07 19:46	0° ☿		morning max el	2676 Apr 29 06:15	12° ☿ 15'06	27°30'00
morning set	2675 Jun 16 12:05	17° ☿ 03'01			2676 May 13 05:43	0° ☿	
asc. node	2675 Jun 17 17:35	19° ☿ 39'25			2676 May 29 23:48	0° ☿	
	2675 Jun 22 11:39	0° ☿		morning set	2676 May 30 19:48	1° ☿ 43'21	
				asc. node	2676 Jun 03 14:38	9° ☿ 45'45	
superior conj	2675 Jun 23 12:15	2° ☿ 15'23	0°57'36				
minimum elong	2675 Jun 23 10:05	2° ☿ 03'30	0°57'12	superior conj	2676 Jun 06 23:50	17° ☿ 09'34	0°35'03
max. Earth dist.	2675 Jun 23 18:22	2° ☿ 49'05	1.32217 AU	minimum elong	2676 Jun 06 22:20	17° ☿ 01'20	0°34'44
evening rise	2675 Jun 30 10:15	17° ☿ 13'50		max. Earth dist.	2676 Jun 06 06:26	15° ☿ 33'55	1.32145 AU
	2675 Jul 06 19:34	0° ☿			2676 Jun 12 20:54	0° ☿	
desc. node	2675 Jul 25 14:09	29° ☿ 05'44		evening rise	2676 Jun 13 20:05	2° ☿ 03'32	
	2675 Jul 26 08:40	0° ☿			2676 Jun 28 22:06	0° ☿	
evening max el	2675 Jul 30 18:58	4° ☿ 40'07	26°50'39	desc. node	2676 Jul 11 11:08	15° ☿ 54'32	
retrograde	2675 Aug 13 17:29	11° ☿ 52'44		evening max el	2676 Jul 11 16:01	16° ☿ 06'15	25°46'46
evening set	2675 Aug 20 15:15	9° ☿ 48'42		retrograde	2676 Jul 25 15:54	23° ☿ 14'31	
min. Earth dist.	2675 Aug 24 09:06	7° ☿ 10'28	0.60561 AU	evening set	2676 Jul 31 18:05	21° ☿ 46'31	
inferior conj	2675 Aug 27 14:42	4° ☿ 29'00	-4°34'04	min. Earth dist.	2676 Aug 05 04:16	19° ☿ 08'31	0.58506 AU
minimum elong	2675 Aug 27 19:37	4° ☿ 18'44	4°33'13	inferior conj	2676 Aug 08 09:54	16° ☿ 48'33	-5°00'26
	2675 Sep 03 07:09	30° ☿		minimum elong	2676 Aug 08 11:41	16° ☿ 45'19	5°00'20
morning rise	2675 Sep 04 01:52	29° ☿ 43'42		morning rise	2676 Aug 16 07:32	12° ☿ 26'08	
direct	2675 Sep 06 11:27	29° ☿ 21'27		direct	2676 Aug 18 19:26	12° ☿ 06'04	
	2675 Sep 09 13:26	0° ☿		morning max el	2676 Aug 27 01:27	16° ☿ 01'46	18°40'24
asc. node	2675 Sep 13 16:49	2° ☿ 52'16		asc. node	2676 Aug 30 13:52	20° ☿ 01'02	
morning max el	2675 Sep 13 19:10	2° ☿ 57'55	18°05'51		2676 Sep 05 22:57	0° ☿	
morning set	2675 Sep 29 14:57	28° ☿ 01'17		morning set	2676 Sep 12 08:53	12° ☿ 03'57	
	2675 Sep 30 16:21	0° ☿					
superior conj	2675 Oct 09 09:39	16° ☿ 00'47	1°17'19	superior conj	2676 Sep 21 01:46	28° ☿ 51'12	1°35'48
minimum elong	2675 Oct 09 13:52	16° ☿ 19'33	1°16'51	minimum elong	2676 Sep 21 04:30	29° ☿ 04'03	1°35'36
max. Earth dist.	2675 Oct 17 00:53	29° ☿ 14'02	1.41647 AU		2676 Sep 21 16:26	0° ☿	
	2675 Oct 17 11:51	0° ☿		max. Earth dist.	2676 Sep 28 06:35	11° ☿ 57'59	1.39632 AU
desc. node	2675 Oct 21 13:28	6° ☿ 41'33		evening rise	2676 Oct 02 08:14	18° ☿ 58'47	
evening rise	2675 Oct 22 10:44	8° ☿ 07'21		desc. node	2676 Oct 07 10:28	27° ☿ 22'31	
	2675 Nov 05 17:52	0° ☿			2676 Oct 09 01:55	0° ☿	
evening max el	2675 Nov 24 21:38	24° ☿ 48'07	22°43'08		2676 Oct 30 01:24	0° ☿	
	2675 Dec 01 18:08	0° ☿		evening max el	2676 Nov 06 11:16	8° ☿ 24'54	24°03'06
retrograde	2675 Dec 04 19:50	0° ☿ 41'41		retrograde	2676 Nov 17 11:45	14° ☿ 53'20	
	2675 Dec 07 16:30	30° ☿		evening set	2676 Nov 22 17:59	12° ☿ 41'46	
evening set	2675 Dec 09 12:35	28° ☿ 46'55		asc. node	2676 Nov 26 13:06	8° ☿ 29'00	
asc. node	2675 Dec 10 16:03	27° ☿ 43'26		min. Earth dist.	2676 Nov 27 12:35	7° ☿ 10'48	0.67721 AU
inferior conj	2675 Dec 14 21:19	22° ☿ 25'07	1°24'08	inferior conj	2676 Nov 28 04:19	6° ☿ 17'33	0°33'29
minimum elong	2675 Dec 14 19:31	22° ☿ 31'22	1°23'26	minimum elong	2676 Nov 28 03:32	6° ☿ 20'14	0°33'09
min. Earth dist.	2675 Dec 14 16:15	22° ☿ 42'40	0.67896 AU	morning rise	2676 Dec 03 13:05	0° ☿ 12'56	
					2676 Dec 03 20:15	30° ☿	

direct	2676 Dec 07 11:30	28° \mathbb{M} 45'03		inferior conj	2677 Nov 12 09:02	20° \mathbb{M} 11'00	-0°21'36
	2676 Dec 11 09:28	0° \mathbb{A}		minimum elong	2677 Nov 12 09:34	20° \mathbb{M} 09'13	0°21'22
morning max el	2676 Dec 15 11:34	3° \mathbb{A} 21'14	20°33'22	asc. node	2677 Nov 13 10:08	18° \mathbb{M} 50'24	
desc. node	2677 Jan 03 09:46	28° \mathbb{A} 49'45		morning rise	2677 Nov 17 23:34	14° \mathbb{M} 13'45	
	2677 Jan 04 04:31	0° \mathbb{B}		direct	2677 Nov 21 09:55	13° \mathbb{M} 05'51	
morning set	2677 Jan 13 04:17	13° \mathbb{B} 43'41		morning max el	2677 Nov 28 15:05	17° \mathbb{M} 09'41	19°28'52
max. Earth dist.	2677 Jan 22 11:41	28° \mathbb{B} 26'54	1.43275 AU		2677 Dec 08 14:19	0° \mathbb{A}	
	2677 Jan 23 10:42	0° \approx		greatest brilliancy	2677 Dec 11 22:47	4° \mathbb{A} 57'53	-0.7m
				desc. node	2677 Dec 21 06:46	19° \mathbb{A} 13'37	
superior conj	2677 Jan 28 22:09	9° \approx 00'28	-2°03'52	morning set	2677 Dec 23 02:19	22° \mathbb{A} 01'58	
minimum elong	2677 Jan 28 19:27	8° \approx 49'09	2°03'48		2677 Dec 28 05:27	0° \mathbb{B}	
evening rise	2677 Feb 10 04:08	0° \mathbb{H} 04'43		max. Earth dist.	2678 Jan 05 00:58	12° \mathbb{B} 15'38	1.44554 AU
	2677 Feb 10 03:03	0° \mathbb{H}					
asc. node	2677 Feb 22 12:23	20° \mathbb{H} 52'06		superior conj	2678 Jan 08 20:15	18° \mathbb{B} 18'45	-1°45'39
evening max el	2677 Feb 27 09:59	27° \mathbb{H} 00'33	18°07'40	minimum elong	2678 Jan 08 12:17	17° \mathbb{B} 46'51	1°45'01
	2677 Mar 03 17:44	0° \mathbb{Y}			2678 Jan 16 01:28	0° \approx	
retrograde	2677 Mar 05 22:08	0° \mathbb{Y} 23'50		evening rise	2678 Jan 22 22:18	11° \approx 23'16	
	2677 Mar 08 02:54	30° \mathbb{R} \mathbb{H}			2678 Feb 03 05:03	0° \mathbb{H}	
evening set	2677 Mar 08 16:50	29° \mathbb{H} 46'01		asc. node	2678 Feb 09 09:26	8° \mathbb{H} 39'20	
inferior conj	2677 Mar 15 01:19	24° \mathbb{H} 38'48	3°35'46	evening max el	2678 Feb 10 22:31	10° \mathbb{H} 20'54	18°21'35
minimum elong	2677 Mar 15 02:38	24° \mathbb{H} 35'27	3°35'40	retrograde	2678 Feb 17 10:01	13° \mathbb{H} 51'40	
min. Earth dist.	2677 Mar 17 23:53	21° \mathbb{H} 39'20	0.62064 AU	evening set	2678 Feb 20 10:06	13° \mathbb{H} 02'40	
morning rise	2677 Mar 21 11:03	18° \mathbb{H} 40'02		inferior conj	2678 Feb 26 08:35	7° \mathbb{H} 36'27	3°40'45
direct	2677 Mar 28 08:22	16° \mathbb{H} 10'36		minimum elong	2678 Feb 26 08:06	7° \mathbb{H} 37'50	3°40'43
desc. node	2677 Apr 01 08:57	16° \mathbb{H} 56'30		min. Earth dist.	2678 Feb 28 16:26	4° \mathbb{H} 57'20	0.63984 AU
morning max el	2677 Apr 11 10:45	24° \mathbb{H} 06'50	27°50'31	morning rise	2678 Mar 04 05:22	1° \mathbb{H} 29'10	
	2677 Apr 16 18:21	0° \mathbb{Y}			2678 Mar 06 08:57	30° \mathbb{R} \approx	
	2677 May 06 13:15	0° \mathbb{B}		direct	2678 Mar 11 02:24	28° \approx 41'37	
morning set	2677 May 14 22:36	16° \mathbb{B} 05'51			2678 Mar 16 05:05	0° \mathbb{H}	
max. Earth dist.	2677 May 20 15:40	28° \mathbb{B} 06'22	1.32470 AU	desc. node	2678 Mar 19 05:59	1° \mathbb{H} 49'03	
asc. node	2677 May 21 11:39	29° \mathbb{B} 54'31		morning max el	2678 Mar 24 19:26	6° \mathbb{H} 36'39	27°34'02
	2677 May 21 12:40	0° \mathbb{H}			2678 Apr 11 17:04	0° \mathbb{Y}	
				morning set	2678 Apr 28 18:00	0° \mathbb{B} 03'07	
superior conj	2677 May 22 09:40	1° \mathbb{H} 54'09	0°09'40		2678 Apr 28 17:22	0° \mathbb{B}	
minimum elong	2677 May 22 09:13	1° \mathbb{H} 51'42	0°09'34	max. Earth dist.	2678 May 03 18:02	10° \mathbb{B} 14'05	1.33218 AU
behind sun begin	2677 May 22 05:05	1° \mathbb{H} 29'09					
behind sun end	2677 May 22 13:22	2° \mathbb{H} 14'15		superior conj	2678 May 06 15:58	16° \mathbb{B} 23'49	-0°17'46
evening rise	2677 May 29 07:43	16° \mathbb{H} 54'38		minimum elong	2678 May 06 16:51	16° \mathbb{B} 28'33	0°17'34
	2677 Jun 04 19:03	0° \mathbb{B}		asc. node	2678 May 08 08:42	20° \mathbb{B} 02'03	
evening max el	2677 Jun 23 06:37	26° \mathbb{B} 49'49	24°19'21		2678 May 13 00:10	0° \mathbb{H}	
	2677 Jun 27 00:06	0° \mathbb{Q}		evening rise	2678 May 13 19:18	1° \mathbb{H} 41'16	
desc. node	2677 Jun 28 08:09	0° \mathbb{Q} 55'14			2678 May 29 15:25	0° \mathbb{B}	
retrograde	2677 Jul 07 03:03	3° \mathbb{Q} 49'19		evening max el	2678 Jun 04 20:36	7° \mathbb{B} 16'28	22°42'55
evening set	2677 Jul 11 21:07	2° \mathbb{Q} 58'55		desc. node	2678 Jun 15 05:12	13° \mathbb{B} 32'26	
min. Earth dist.	2677 Jul 17 17:25	0° \mathbb{Q} 03'25	0.56647 AU	retrograde	2678 Jun 18 02:05	13° \mathbb{B} 51'18	
	2677 Jul 17 19:39	30° \mathbb{R} \mathbb{B}		evening set	2678 Jun 21 08:18	13° \mathbb{B} 27'57	
inferior conj	2677 Jul 20 08:55	28° \mathbb{B} 23'33	-4°53'39	min. Earth dist.	2678 Jun 29 04:45	10° \mathbb{B} 01'07	0.55336 AU
minimum elong	2677 Jul 20 05:16	28° \mathbb{B} 29'20	4°53'19	inferior conj	2678 Jun 30 13:13	9° \mathbb{B} 14'39	-4°00'25
morning rise	2677 Jul 28 16:05	24° \mathbb{B} 21'50		minimum elong	2678 Jun 30 05:20	9° \mathbb{B} 25'57	3°58'34
direct	2677 Jul 31 08:18	24° \mathbb{B} 02'40		morning rise	2678 Jul 09 04:40	5° \mathbb{B} 23'09	
morning max el	2677 Aug 09 22:17	28° \mathbb{B} 29'55	19°36'28	direct	2678 Jul 12 02:50	5° \mathbb{B} 03'22	
	2677 Aug 11 10:12	0° \mathbb{Q}		morning max el	2678 Jul 23 07:47	10° \mathbb{B} 15'23	20°53'30
asc. node	2677 Aug 17 10:54	8° \mathbb{Q} 03'12		asc. node	2678 Aug 04 07:56	26° \mathbb{B} 46'19	
morning set	2677 Aug 27 10:45	26° \mathbb{Q} 29'49			2678 Aug 06 02:20	0° \mathbb{Q}	
	2677 Aug 29 04:27	0° \mathbb{M}		morning set	2678 Aug 11 17:54	11° \mathbb{Q} 11'19	
superior conj	2677 Sep 04 09:44	12° \mathbb{M} 29'06	1°44'15	superior conj	2678 Aug 19 04:57	26° \mathbb{Q} 40'42	1°44'25
minimum elong	2677 Sep 04 10:38	12° \mathbb{M} 33'33	1°44'13	minimum elong	2678 Aug 19 04:17	26° \mathbb{Q} 37'16	1°44'25
max. Earth dist.	2677 Sep 10 10:49	24° \mathbb{M} 04'40	1.37578 AU		2678 Aug 20 20:01	0° \mathbb{M}	
	2677 Sep 13 16:42	0° \mathbb{Q}		max. Earth dist.	2678 Aug 23 19:05	5° \mathbb{M} 54'49	1.35726 AU
evening rise	2677 Sep 14 05:07	0° \mathbb{Q} 55'26		evening rise	2678 Aug 27 21:46	13° \mathbb{M} 48'24	
desc. node	2677 Sep 24 07:28	17° \mathbb{Q} 54'15			2678 Sep 06 02:01	0° \mathbb{Q}	
	2677 Oct 02 07:01	0° \mathbb{M}		desc. node	2678 Sep 11 04:29	8° \mathbb{Q} 11'10	
evening max el	2677 Oct 19 23:20	22° \mathbb{M} 04'49	25°18'48		2678 Sep 27 02:51	0° \mathbb{M}	
retrograde	2677 Oct 31 23:26	29° \mathbb{M} 00'21		evening max el	2678 Oct 02 11:26	5° \mathbb{M} 44'23	26°22'50
evening set	2677 Nov 06 19:49	26° \mathbb{M} 33'28		retrograde	2678 Oct 15 06:16	12° \mathbb{M} 56'19	
min. Earth dist.	2677 Nov 11 06:28	21° \mathbb{M} 37'05	0.67205 AU	evening set	2678 Oct 21 16:11	10° \mathbb{M} 18'01	

min. Earth dist.	2678 Oct 25 19:35	5° \mathbb{M} 57'27	0.66347 AU	min. Earth dist.	2679 Oct 09 01:40	20° \mathbb{Q} 06'43	0.65142 AU
inferior conj	2678 Oct 27 09:31	4° \mathbb{M} 01'52	-1°19'47	inferior conj	2679 Oct 11 03:42	17° \mathbb{Q} 46'15	-2°19'12
minimum elong	2678 Oct 27 11:40	3° \mathbb{M} 55'20	1°18'53	minimum elong	2679 Oct 11 07:29	17° \mathbb{Q} 35'37	2°17'46
asc. node	2678 Oct 31 07:11	29° \mathbb{Q} 44'04		morning rise	2679 Oct 17 11:02	12° \mathbb{Q} 11'59	
	2678 Oct 31 00:14	30° \mathbb{R} \mathbb{Q}		asc. node	2679 Oct 18 04:12	11° \mathbb{Q} 54'06	
morning rise	2678 Nov 02 07:41	28° \mathbb{Q} 14'36		direct	2679 Oct 20 03:55	11° \mathbb{Q} 32'50	
direct	2678 Nov 05 08:05	27° \mathbb{Q} 23'01		morning max el	2679 Oct 26 16:04	15° \mathbb{Q} 02'30	18°07'13
	2678 Nov 10 21:40	0° \mathbb{M}			2679 Nov 06 09:05	0° \mathbb{M}	
morning max el	2678 Nov 12 01:22	1° \mathbb{M} 05'10	18°39'45	morning set	2679 Nov 13 20:49	12° \mathbb{M} 19'11	
	2678 Dec 01 23:05	0° \mathbb{R}			2679 Nov 24 16:57	0° \mathbb{R}	
morning set	2678 Dec 02 20:51	1° \mathbb{R} 26'20		desc. node	2679 Nov 25 00:49	0° \mathbb{R} 31'34	
desc. node	2678 Dec 08 03:46	9° \mathbb{R} 48'43					
				superior conj	2679 Nov 28 05:13	5° \mathbb{R} 36'17	-0°21'25
superior conj	2678 Dec 19 00:08	26° \mathbb{R} 52'22	-1°08'53	minimum elong	2679 Nov 28 02:30	5° \mathbb{R} 25'31	0°21'02
minimum elong	2678 Dec 18 15:56	26° \mathbb{R} 20'11	1°07'55	max. Earth dist.	2679 Dec 01 13:31	10° \mathbb{R} 53'47	1.45015 AU
max. Earth dist.	2678 Dec 18 18:26	26° \mathbb{R} 30'03	1.45152 AU		2679 Dec 13 19:24	0° \mathbb{Q}	
	2678 Dec 20 23:55	0° \mathbb{Q}		evening rise	2679 Dec 14 14:31	1° \mathbb{Q} 14'06	
evening rise	2679 Jan 03 17:13	21° \mathbb{Q} 43'35		greatest brilliancy	2679 Dec 27 15:22	21° \mathbb{Q} 13'47	-0.7m
	2679 Jan 08 21:18	0° \mathbb{M}			2680 Jan 02 16:59	0° \mathbb{M}	
greatest brilliancy	2679 Jan 11 16:51	4° \mathbb{M} 29'10	-0.8m	evening max el	2680 Jan 08 15:54	7° \mathbb{M} 17'51	19°42'00
evening max el	2679 Jan 25 09:09	23° \mathbb{M} 47'45	18°53'34	asc. node	2680 Jan 14 03:32	11° \mathbb{M} 15'06	
asc. node	2679 Jan 27 06:29	25° \mathbb{M} 31'41		retrograde	2680 Jan 16 01:18	11° \mathbb{M} 34'59	
retrograde	2679 Feb 01 04:07	27° \mathbb{M} 37'03		evening set	2680 Jan 19 15:01	10° \mathbb{M} 20'21	
evening set	2679 Feb 04 10:20	26° \mathbb{M} 35'53		inferior conj	2680 Jan 25 02:18	4° \mathbb{M} 22'21	3°05'25
inferior conj	2679 Feb 10 01:57	20° \mathbb{M} 52'38	3°29'16	minimum elong	2680 Jan 24 23:51	4° \mathbb{M} 30'24	3°04'53
minimum elong	2679 Feb 10 00:11	20° \mathbb{M} 58'07	3°29'02	min. Earth dist.	2680 Jan 26 04:07	2° \mathbb{M} 57'06	0.66714 AU
min. Earth dist.	2679 Feb 11 18:19	18° \mathbb{M} 47'13	0.65551 AU		2680 Jan 28 13:16	30° \mathbb{R} \mathbb{Q}	
morning rise	2679 Feb 15 13:39	14° \mathbb{M} 41'10		morning rise	2680 Jan 30 08:28	28° \mathbb{Q} 09'12	
direct	2679 Feb 22 03:28	11° \mathbb{M} 49'48		direct	2680 Feb 05 10:22	25° \mathbb{Q} 26'37	
desc. node	2679 Mar 06 03:00	18° \mathbb{M} 27'29			2680 Feb 14 17:35	0° \mathbb{M}	
morning max el	2679 Mar 07 05:18	19° \mathbb{M} 32'06	26°45'44	morning max el	2680 Feb 17 14:20	2° \mathbb{M} 41'25	25°33'59
	2679 Mar 16 03:46	0° \mathbb{R}		desc. node	2680 Feb 21 00:03	6° \mathbb{M} 22'06	
	2679 Apr 04 18:02	0° \mathbb{Y}			2680 Mar 09 08:19	0° \mathbb{R}	
morning set	2679 Apr 12 02:44	13° \mathbb{Y} 24'59		morning set	2680 Mar 24 20:19	25° \mathbb{R} 57'55	
max. Earth dist.	2679 Apr 16 09:53	21° \mathbb{Y} 48'32	1.34417 AU		2680 Mar 27 00:52	0° \mathbb{Y}	
	2679 Apr 20 10:23	0° \mathbb{Q}		max. Earth dist.	2680 Mar 28 14:07	2° \mathbb{Y} 55'08	1.36074 AU
superior conj	2679 Apr 20 16:35	0° \mathbb{Q} 32'07	-0°46'07	superior conj	2680 Apr 03 08:48	14° \mathbb{Y} 10'55	-1°13'51
minimum elong	2679 Apr 20 18:57	0° \mathbb{Q} 44'26	0°45'38	minimum elong	2680 Apr 03 12:32	14° \mathbb{Y} 29'34	1°13'14
asc. node	2679 Apr 25 05:46	10° \mathbb{Q} 04'21		evening rise	2680 Apr 11 10:34	0° \mathbb{R} 35'52	
evening rise	2679 Apr 28 04:58	16° \mathbb{Q} 17'20		asc. node	2680 Apr 11 02:50	29° \mathbb{Y} 56'33	
	2679 May 05 03:28	0° \mathbb{I}			2680 Apr 11 03:30	0° \mathbb{R}	
evening max el	2679 May 17 17:56	17° \mathbb{I} 59'32	21°12'14	evening max el	2680 Apr 29 02:44	29° \mathbb{R} 18'11	19°56'41
retrograde	2679 May 29 15:53	23° \mathbb{I} 49'02			2680 Apr 29 20:36	0° \mathbb{I}	
evening set	2679 May 31 22:11	23° \mathbb{I} 37'12		retrograde	2680 May 09 07:10	4° \mathbb{I} 14'13	
desc. node	2679 Jun 02 02:13	23° \mathbb{I} 22'15		evening set	2680 May 11 07:08	4° \mathbb{I} 03'40	
inferior conj	2679 Jun 10 07:20	19° \mathbb{I} 38'35	-2°21'32	desc. node	2680 May 18 23:16	0° \mathbb{I} 48'26	
minimum elong	2679 Jun 10 00:52	19° \mathbb{I} 47'41	2°19'20	inferior conj	2680 May 20 05:11	0° \mathbb{I} 03'26	-0°21'55
min. Earth dist.	2679 Jun 10 16:47	19° \mathbb{I} 25'16	0.54875 AU	minimum elong	2680 May 20 04:11	0° \mathbb{I} 04'58	0°21'33
morning rise	2679 Jun 19 03:47	15° \mathbb{I} 39'12			2680 May 20 07:27	30° \mathbb{R} \mathbb{R}	
direct	2679 Jun 22 12:42	15° \mathbb{I} 14'35		min. Earth dist.	2680 May 22 06:04	28° \mathbb{R} 49'28	0.55386 AU
morning max el	2679 Jul 05 06:23	21° \mathbb{I} 18'11	22°27'41	morning rise	2680 May 28 23:13	25° \mathbb{R} 38'09	
	2679 Jul 12 16:20	0° \mathbb{Q}		direct	2680 Jun 02 02:56	25° \mathbb{R} 00'15	
asc. node	2679 Jul 22 04:59	16° \mathbb{Q} 00'34			2680 Jun 13 20:13	0° \mathbb{I}	
morning set	2679 Jul 27 04:16	26° \mathbb{Q} 03'01		morning max el	2680 Jun 15 21:50	1° \mathbb{I} 49'48	24°10'06
	2679 Jul 29 01:10	0° \mathbb{Q}			2680 Jul 05 05:59	0° \mathbb{Q}	
				asc. node	2680 Jul 08 02:03	5° \mathbb{Q} 37'06	
superior conj	2679 Aug 03 07:57	11° \mathbb{Q} 15'43	1°37'52	morning set	2680 Jul 10 16:00	10° \mathbb{Q} 58'28	
minimum elong	2679 Aug 03 06:12	11° \mathbb{Q} 06'28	1°37'44				
max. Earth dist.	2679 Aug 06 12:05	17° \mathbb{Q} 54'26	1.34228 AU	superior conj	2680 Jul 17 15:55	26° \mathbb{Q} 04'31	1°25'46
evening rise	2679 Aug 11 05:43	27° \mathbb{Q} 26'10		minimum elong	2680 Jul 17 13:37	25° \mathbb{Q} 52'04	1°25'29
	2679 Aug 12 13:29	0° \mathbb{M}			2680 Jul 19 11:35	0° \mathbb{Q}	
desc. node	2679 Aug 29 01:32	28° \mathbb{M} 06'36		max. Earth dist.	2680 Jul 19 14:10	0° \mathbb{Q} 13'52	1.33134 AU
	2679 Aug 30 08:16	0° \mathbb{Q}		evening rise	2680 Jul 25 00:43	11° \mathbb{Q} 35'37	
evening max el	2679 Sep 14 23:51	19° \mathbb{Q} 16'24	27°07'34		2680 Aug 03 19:29	0° \mathbb{M}	
retrograde	2679 Sep 28 07:29	26° \mathbb{Q} 34'16		desc. node	2680 Aug 14 22:35	17° \mathbb{M} 30'19	
evening set	2679 Oct 05 04:48	23° \mathbb{Q} 51'23			2680 Aug 25 00:07	0° \mathbb{Q}	

evening max el	2680 Aug 27 11:02	2° Ω 27'52	27°26'03	retrograde	2681 Aug 23 14:29	22° Π 19'17	
retrograde	2680 Sep 10 02:27	9° Ω 44'52		evening set	2681 Aug 30 17:55	19° Π 58'51	
evening set	2680 Sep 17 06:39	7° Ω 07'06		min. Earth dist.	2681 Sep 03 08:34	17° Π 12'47	0.61731 AU
min. Earth dist.	2680 Sep 20 22:26	3° Ω 55'43	0.63590 AU	inferior conj	2681 Sep 06 10:06	14° Π 27'46	-4°09'25
inferior conj	2680 Sep 23 12:55	1° Ω 17'23	-3°17'14	minimum elong	2681 Sep 06 15:37	14° Π 15'21	4°08'07
minimum elong	2680 Sep 23 18:03	1° Ω 04'21	3°15'35	morning rise	2681 Sep 13 14:58	9° Π 30'03	
	2680 Sep 24 19:51	30° \mathbb{R} Π		direct	2681 Sep 16 00:39	9° Π 05'32	
morning rise	2680 Sep 30 06:41	25° Π 59'36		asc. node	2681 Sep 20 22:18	10° Π 51'05	
direct	2680 Oct 02 18:37	25° Π 29'15		morning max el	2681 Sep 22 23:23	12° Π 35'04	17°55'20
asc. node	2680 Oct 04 01:14	25° Π 37'20			2681 Oct 04 16:37	0° Ω	
morning max el	2680 Oct 09 08:24	28° Π 54'45	17°52'07	morning set	2681 Oct 08 20:34	7° Ω 31'48	
	2680 Oct 10 09:09	0° Ω					
morning set	2680 Oct 25 22:52	24° Ω 27'31		superior conj	2681 Oct 19 10:28	26° Ω 25'44	1°01'32
	2680 Oct 29 03:46	0° \mathbb{M}		minimum elong	2681 Oct 19 14:53	26° Ω 44'51	1°00'58
					2681 Oct 21 12:20	0° \mathbb{M}	
superior conj	2680 Nov 07 06:20	15° \mathbb{M} 21'13	0°24'46	max. Earth dist.	2681 Oct 26 20:55	8° \mathbb{M} 57'58	1.42688 AU
minimum elong	2680 Nov 07 08:55	15° \mathbb{M} 31'49	0°24'24	desc. node	2681 Oct 28 18:53	12° \mathbb{M} 05'29	
desc. node	2680 Nov 10 21:52	21° \mathbb{M} 18'19		evening rise	2681 Nov 02 13:19	19° \mathbb{M} 42'26	
max. Earth dist.	2680 Nov 13 07:22	25° \mathbb{M} 09'22	1.44156 AU		2681 Nov 09 05:17	0° \mathbb{X}	
	2680 Nov 16 08:34	0° \mathbb{X}			2681 Nov 30 15:37	0° \mathbb{Z}	
evening rise	2680 Nov 22 23:51	10° \mathbb{X} 20'32		evening max el	2681 Dec 04 13:13	4° \mathbb{Z} 21'01	21°57'56
	2680 Dec 06 00:39	0° \mathbb{Z}		retrograde	2681 Dec 13 20:03	9° \mathbb{Z} 52'38	
evening max el	2680 Dec 21 17:24	20° \mathbb{Z} 49'14	20°44'35	asc. node	2681 Dec 17 21:33	8° \mathbb{Z} 23'11	
retrograde	2680 Dec 29 23:15	25° \mathbb{Z} 41'32		evening set	2681 Dec 18 05:48	8° \mathbb{Z} 07'11	
asc. node	2680 Dec 31 00:32	25° \mathbb{Z} 35'23		inferior conj	2681 Dec 23 14:10	1° \mathbb{Z} 48'24	1°50'48
evening set	2681 Jan 02 22:06	24° \mathbb{Z} 12'04		minimum elong	2681 Dec 23 11:57	1° \mathbb{Z} 56'02	1°50'01
inferior conj	2681 Jan 08 07:05	18° \mathbb{Z} 02'01	2°31'59	min. Earth dist.	2681 Dec 23 15:16	1° \mathbb{Z} 44'33	0.67837 AU
minimum elong	2681 Jan 08 04:31	18° \mathbb{Z} 10'48	2°31'13		2681 Dec 24 21:42	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	2681 Jan 08 19:51	17° \mathbb{Z} 18'16	0.67466 AU	morning rise	2681 Dec 28 17:59	25° \mathbb{X} 36'57	
morning rise	2681 Jan 13 10:45	11° \mathbb{Z} 48'56		direct	2682 Jan 02 14:25	23° \mathbb{X} 33'44	
direct	2681 Jan 18 22:16	9° \mathbb{Z} 23'49		morning max el	2682 Jan 12 08:59	29° \mathbb{X} 20'31	22°40'14
morning max el	2681 Jan 29 22:47	15° \mathbb{Z} 58'07	24°08'52		2682 Jan 13 00:23	0° \mathbb{Z}	
desc. node	2681 Feb 06 21:06	25° \mathbb{Z} 11'04		desc. node	2682 Jan 24 18:07	14° \mathbb{Z} 38'20	
	2681 Feb 10 12:28	0° \approx			2682 Feb 04 07:27	0° \approx	
	2681 Mar 02 07:43	0° \mathbb{H}		morning set	2682 Feb 15 10:52	17° \approx 35'20	
morning set	2681 Mar 06 17:04	7° \mathbb{H} 26'34		max. Earth dist.	2682 Feb 20 06:35	25° \approx 39'42	1.40254 AU
max. Earth dist.	2681 Mar 10 10:42	14° \mathbb{H} 01'20	1.38092 AU		2682 Feb 22 19:01	0° \mathbb{H}	
superior conj	2681 Mar 17 13:12	27° \mathbb{H} 11'12	-1°38'44	superior conj	2682 Feb 28 01:15	9° \mathbb{H} 21'03	-1°57'33
minimum elong	2681 Mar 17 17:38	27° \mathbb{H} 32'26	1°38'13	minimum elong	2682 Feb 28 04:54	9° \mathbb{H} 37'38	1°57'20
	2681 Mar 19 00:20	0° \mathbb{Y}		evening rise	2682 Mar 09 23:02	27° \mathbb{H} 51'16	
evening rise	2681 Mar 26 09:38	14° \mathbb{Y} 30'05			2682 Mar 11 02:14	0° \mathbb{Y}	
asc. node	2681 Mar 28 23:53	19° \mathbb{Y} 34'03		asc. node	2682 Mar 15 20:54	8° \mathbb{Y} 50'38	
	2681 Apr 03 16:29	0° \mathbb{Z}		evening max el	2682 Mar 26 03:38	23° \mathbb{Y} 48'43	18°24'20
evening max el	2681 Apr 11 22:51	11° \mathbb{Z} 16'36	19°00'24	retrograde	2682 Apr 02 13:17	27° \mathbb{Y} 28'21	
retrograde	2681 Apr 20 12:45	15° \mathbb{Z} 26'57		evening set	2682 Apr 04 22:53	27° \mathbb{Y} 06'21	
evening set	2681 Apr 22 16:16	15° \mathbb{Z} 12'21		inferior conj	2682 Apr 12 06:49	22° \mathbb{Y} 31'47	2°40'03
inferior conj	2681 Apr 30 19:23	10° \mathbb{Z} 57'28	1°24'40	minimum elong	2682 Apr 12 10:38	22° \mathbb{Y} 23'58	2°39'09
minimum elong	2681 Apr 30 22:28	10° \mathbb{Z} 52'03	1°23'39	min. Earth dist.	2682 Apr 15 17:26	19° \mathbb{Y} 43'49	0.58688 AU
min. Earth dist.	2681 May 03 21:36	8° \mathbb{Z} 48'29	0.56752 AU	morning rise	2682 Apr 19 19:31	17° \mathbb{Y} 00'53	
desc. node	2681 May 05 20:17	7° \mathbb{Z} 34'22		desc. node	2682 Apr 22 17:19	15° \mathbb{Y} 49'50	
morning rise	2681 May 09 01:34	5° \mathbb{Z} 57'17		direct	2682 Apr 25 22:06	15° \mathbb{Y} 22'46	
direct	2681 May 14 05:32	4° \mathbb{Z} 54'14		morning max el	2682 May 10 07:25	23° \mathbb{Y} 06'18	27°01'27
morning max el	2681 May 28 12:28	12° \mathbb{Z} 16'57	25°46'33		2682 May 16 11:16	0° \mathbb{Z}	
	2681 Jun 11 06:32	0° \mathbb{I}			2682 Jun 04 06:07	0° \mathbb{I}	
asc. node	2681 Jun 24 23:07	25° \mathbb{I} 29'33		morning set	2682 Jun 09 13:07	10° \mathbb{I} 39'45	
morning set	2681 Jun 25 03:30	25° \mathbb{I} 52'40		asc. node	2682 Jun 11 20:10	15° \mathbb{I} 32'06	
	2681 Jun 27 01:51	0° \mathbb{S}					
				superior conj	2682 Jun 16 14:31	25° \mathbb{I} 56'44	0°48'25
superior conj	2681 Jul 02 02:43	11° \mathbb{S} 00'18	1°09'02	minimum elong	2682 Jun 16 12:36	25° \mathbb{I} 46'07	0°48'02
minimum elong	2681 Jul 02 00:23	10° \mathbb{S} 47'26	1°08'39	max. Earth dist.	2682 Jun 16 10:46	25° \mathbb{I} 36'03	1.32137 AU
max. Earth dist.	2681 Jul 02 22:56	12° \mathbb{S} 51'08	1.32442 AU		2682 Jun 18 10:42	0° \mathbb{S}	
evening rise	2681 Jul 09 03:28	26° \mathbb{S} 07'03		evening rise	2682 Jun 23 11:20	10° \mathbb{S} 51'55	
	2681 Jul 11 00:57	0° \mathbb{Q}			2682 Jul 03 06:53	0° \mathbb{Q}	
	2681 Jul 28 07:25	0° \mathbb{P}		desc. node	2682 Jul 19 16:36	23° \mathbb{Q} 45'37	
desc. node	2681 Aug 01 19:35	6° \mathbb{P} 09'24		evening max el	2682 Jul 22 19:20	26° \mathbb{Q} 57'43	26°26'57
evening max el	2681 Aug 09 18:21	15° \mathbb{P} 05'06	27°13'04		2682 Jul 26 08:44	0° \mathbb{P}	

retrograde	2682 Aug 05 18:46	4° \cap 09'22		desc. node	2683 Jul 06 13:37	9° Ω 52'43	
evening set	2682 Aug 12 09:59	2° \cap 19'21		retrograde	2683 Jul 18 13:06	15° Ω 10'14	
	2682 Aug 15 23:53	30° κ Ω		evening set	2683 Jul 24 02:35	13° Ω 58'54	
min. Earth dist.	2682 Aug 16 08:37	29° Ω 43'43	0.59678 AU	min. Earth dist.	2683 Jul 29 01:02	11° Ω 15'10	0.57662 AU
inferior conj	2682 Aug 19 15:47	27° Ω 08'40	-4°48'23	inferior conj	2683 Aug 01 02:36	9° Ω 10'06	-5°02'34
minimum elong	2682 Aug 19 19:43	27° Ω 00'55	4°47'53	minimum elong	2683 Aug 01 02:14	9° Ω 10'42	5°02'34
morning rise	2682 Aug 27 07:34	22° Ω 33'29		morning rise	2683 Aug 09 04:24	4° Ω 57'06	
direct	2682 Aug 29 17:47	22° Ω 12'27		direct	2683 Aug 11 17:43	4° Ω 37'42	
morning max el	2682 Sep 06 09:52	25° Ω 55'33	18°18'03	morning max el	2683 Aug 20 12:33	8° Ω 45'41	19°01'36
asc. node	2682 Sep 07 19:21	27° Ω 22'34		asc. node	2683 Aug 25 16:24	14° Ω 55'45	
	2682 Sep 09 22:37	0° \cap			2683 Sep 03 10:30	0° \cap	
morning set	2682 Sep 22 08:25	21° \cap 16'45		morning set	2683 Sep 06 06:07	5° \cap 30'08	
	2682 Sep 26 22:37	0° Ω					
superior conj	2682 Oct 01 15:04	8° Ω 42'27	1°26'30	superior conj	2683 Sep 14 14:34	21° \cap 54'46	1°40'29
minimum elong	2682 Oct 01 18:45	8° Ω 59'16	1°26'08	minimum elong	2683 Sep 14 16:31	22° \cap 04'08	1°40'23
max. Earth dist.	2682 Oct 09 04:42	22° Ω 05'14	1.40802 AU		2683 Sep 18 21:33	0° Ω	
evening rise	2682 Oct 13 21:16	29° Ω 56'28		max. Earth dist.	2683 Sep 21 08:45	4° Ω 29'46	1.38744 AU
	2682 Oct 13 22:08	0° \cap		evening rise	2683 Sep 25 05:02	11° Ω 16'31	
desc. node	2682 Oct 15 15:54	2° \cap 50'02		desc. node	2683 Oct 02 12:55	23° Ω 27'36	
	2682 Nov 02 17:15	0° κ			2683 Oct 06 17:03	0° \cap	
evening max el	2682 Nov 17 04:27	17° κ 55'18	23°17'13	evening max el	2683 Oct 29 04:34	0° κ	
retrograde	2682 Nov 27 14:13	24° κ 05'15		retrograde	2683 Oct 30 17:12	1° κ 33'31	24°36'19
evening set	2682 Dec 02 12:30	22° κ 03'13		evening set	2683 Nov 11 04:30	8° κ 15'00	
asc. node	2682 Dec 04 18:34	19° κ 45'41		min. Earth dist.	2683 Nov 16 16:35	5° κ 56'53	
inferior conj	2682 Dec 07 21:43	15° κ 39'36	1°03'18	asc. node	2683 Nov 21 07:45	0° κ 40'09	0.67540 AU
minimum elong	2682 Dec 07 20:18	15° κ 44'29	1°02'43		2683 Nov 21 15:37	0° κ 14'00	
min. Earth dist.	2682 Dec 07 12:03	16° κ 12'50	0.67856 AU	inferior conj	2683 Nov 21 19:49	30° κ \cap	
morning rise	2682 Dec 13 04:02	9° κ 31'40		minimum elong	2683 Nov 22 03:59	29° \cap 32'44	0°10'37
direct	2682 Dec 17 10:03	7° κ 51'16		transit middle	2683 Nov 22 03:43	29° \cap 33'37	0°10'30
morning max el	2682 Dec 26 00:19	12° κ 51'31	21°16'37	transit begin	2683 Nov 22 01:37	29° \cap 40'36	
	2683 Jan 08 11:26	0° Ω		transit end	2683 Nov 22 05:49	29° \cap 26'38	
desc. node	2683 Jan 11 15:08	4° Ω 33'23		morning rise	2683 Nov 27 14:56	23° \cap 30'39	
morning set	2683 Jan 26 00:02	26° Ω 23'54		direct	2683 Dec 01 07:59	22° \cap 11'34	
	2683 Jan 28 06:35	0° \approx		morning max el	2683 Dec 08 23:11	26° \cap 32'57	20°04'04
max. Earth dist.	2683 Feb 02 07:50	8° \approx 10'10	1.42279 AU		2683 Dec 12 01:38	0° κ	
				desc. node	2683 Dec 29 12:10	24° κ 48'10	
superior conj	2683 Feb 09 15:52	20° \approx 28'56	-2°05'53		2684 Jan 01 21:55	0° Ω	
minimum elong	2683 Feb 09 16:14	20° \approx 30'29	2°05'53	morning set	2684 Jan 04 20:24	4° Ω 31'12	
	2683 Feb 15 02:34	0° κ		max. Earth dist.	2684 Jan 15 16:58	21° Ω 33'39	1.43893 AU
evening rise	2683 Feb 20 22:59	10° κ 30'58			2684 Jan 20 22:21	0° \approx	
asc. node	2683 Mar 02 17:55	27° κ 39'34					
	2683 Mar 04 06:01	0° \cap		superior conj	2684 Jan 21 04:49	0° \approx 26'24	-1°58'33
evening max el	2683 Mar 09 13:53	6° \cap 46'10	18°08'12	minimum elong	2684 Jan 20 23:38	0° \approx 05'12	1°58'18
retrograde	2683 Mar 16 06:48	10° \cap 11'04		evening rise	2684 Feb 03 05:11	22° \approx 20'41	
evening set	2683 Mar 18 22:19	9° \cap 39'26			2684 Feb 07 15:50	0° κ	
inferior conj	2683 Mar 25 14:17	4° \cap 44'14	3°23'12	asc. node	2684 Feb 17 14:56	15° κ 52'23	
minimum elong	2683 Mar 25 16:42	4° \cap 38'29	3°22'52	evening max el	2684 Feb 21 02:29	20° κ 00'41	18°11'25
min. Earth dist.	2683 Mar 28 19:49	1° \cap 41'34	0.60848 AU	retrograde	2684 Feb 27 13:11	23° κ 25'19	
	2683 Mar 30 19:53	30° κ κ		evening set	2684 Mar 01 10:12	22° κ 42'48	
morning rise	2683 Apr 01 09:07	28° κ 53'02		inferior conj	2684 Mar 07 14:02	17° κ 27'34	3°40'12
direct	2683 Apr 08 02:33	26° κ 39'32		minimum elong	2684 Mar 07 14:32	17° κ 26'13	3°40'10
desc. node	2683 Apr 09 14:21	26° κ 45'47		min. Earth dist.	2684 Mar 10 06:43	14° κ 34'32	0.62918 AU
	2683 Apr 16 23:58	0° \cap		morning rise	2684 Mar 13 17:48	11° κ 24'46	
morning max el	2683 Apr 22 08:30	4° \cap 33'49	27°43'16	direct	2684 Mar 20 16:13	8° κ 45'39	
	2683 May 11 05:46	0° Ω		desc. node	2684 Mar 26 11:22	10° κ 21'08	
morning set	2683 May 24 19:00	25° Ω 13'19		morning max el	2684 Apr 03 14:55	16° κ 42'22	27°47'46
	2683 May 27 01:49	0° \cap			2684 Apr 14 14:56	0° \cap	
asc. node	2683 May 29 17:12	5° \cap 39'55			2684 May 02 22:44	0° Ω	
max. Earth dist.	2683 May 30 21:56	8° \cap 16'13	1.32228 AU	morning set	2684 May 07 19:02	9° Ω 26'37	
				max. Earth dist.	2684 May 13 04:39	20° Ω 39'37	1.32734 AU
superior conj	2683 Jun 01 01:36	10° \cap 47'36	0°24'35				
minimum elong	2683 Jun 01 00:30	10° \cap 41'35	0°24'21	superior conj	2684 May 15 10:14	25° Ω 27'24	-0°01'46
evening rise	2683 Jun 07 22:10	25° \cap 42'48		minimum elong	2684 May 15 10:19	25° Ω 27'53	0°01'45
	2683 Jun 09 23:15	0° Ω		behind sun begin	2684 May 15 05:07	24° Ω 59'45	
	2683 Jun 27 11:53	0° Ω		behind sun end	2684 May 15 15:32	25° Ω 56'02	
evening max el	2683 Jul 04 13:15	8° Ω 03'55	25°11'45	asc. node	2684 May 15 14:15	25° Ω 49'07	

	2684 May 17 12:31	0°♂		evening rise	2685 May 06 21:04	25°♂16'27	
evening rise	2684 May 22 10:03	10°♂33'29			2685 May 09 03:49	0°♂	
	2684 Jun 01 09:51	0°♂		evening max el	2685 May 27 19:14	29°♂07'34	22°02'54
evening max el	2684 Jun 15 02:59	18°♂37'56	23°38'36		2685 May 28 17:33	0°♂	
desc. node	2684 Jun 22 10:38	23°♂57'27		desc. node	2685 Jun 09 07:40	5°♂24'47	
retrograde	2684 Jun 28 18:53	25°♂28'42		retrograde	2685 Jun 09 12:44	5°♂24'53	
evening set	2684 Jul 02 21:11	24°♂51'54		evening set	2685 Jun 12 06:59	5°♂07'56	
min. Earth dist.	2684 Jul 09 13:15	21°♂44'34	0.56007 AU	min. Earth dist.	2685 Jun 21 00:20	1°♂24'07	0.55034 AU
inferior conj	2684 Jul 11 17:16	20°♂26'32	-4°37'18	inferior conj	2685 Jun 21 15:43	1°♂02'33	-3°23'07
minimum elong	2684 Jul 11 11:21	20°♂35'27	4°36'22	minimum elong	2685 Jun 21 07:39	1°♂13'51	3°20'48
morning rise	2684 Jul 20 04:05	16°♂30'31			2685 Jun 23 12:51	30°♂♂	
direct	2684 Jul 22 22:40	16°♂11'14		morning rise	2685 Jun 30 09:58	27°♂♂10'28	
morning max el	2684 Aug 02 04:39	20°♂56'24	20°06'40	direct	2685 Jul 03 12:09	26°♂♂49'15	
	2684 Aug 09 12:15	0°♂			2685 Jul 12 11:36	0°♂	
asc. node	2684 Aug 11 13:28	3°♂17'01		morning max el	2685 Jul 15 09:09	2°♂22'16	21°31'49
morning set	2684 Aug 20 10:35	20°♂03'45		asc. node	2685 Jul 29 10:32	22°♂14'14	
	2684 Aug 25 07:07	0°♂			2685 Aug 02 10:40	0°♂	
				morning set	2685 Aug 04 19:21	4°♂50'15	
superior conj	2684 Aug 28 03:51	5°♂48'22	1°45'13	superior conj	2685 Aug 12 02:45	20°♂10'46	1°42'23
minimum elong	2684 Aug 28 04:02	5°♂49'18	1°45'14	minimum elong	2685 Aug 12 01:34	20°♂04'35	1°42'20
max. Earth dist.	2684 Sep 02 14:16	16°♂27'12	1.36764 AU	max. Earth dist.	2685 Aug 16 02:15	28°♂20'06	1.35047 AU
evening rise	2684 Sep 06 10:58	23°♂38'53			2685 Aug 16 22:13	0°♂	
	2684 Sep 10 00:34	0°♂		evening rise	2685 Aug 20 10:40	6°♂51'58	
desc. node	2684 Sep 18 09:56	13°♂53'41			2685 Sep 02 16:43	0°♂	
	2684 Sep 29 09:37	0°♂		desc. node	2685 Sep 05 06:59	4°♂02'24	
evening max el	2684 Oct 12 05:25	15°♂14'28	25°47'56	evening max el	2685 Sep 24 17:47	28°♂52'04	26°44'35
retrograde	2684 Oct 24 14:02	22°♂17'32			2685 Sep 25 22:52	0°♂	
evening set	2684 Oct 30 16:19	19°♂45'26		retrograde	2685 Oct 07 18:22	6°♂06'56	
min. Earth dist.	2684 Nov 03 23:57	15°♂04'02	0.66887 AU	evening set	2685 Oct 14 09:43	3°♂25'35	
inferior conj	2684 Nov 05 07:09	13°♂25'17	-0°45'58		2685 Oct 17 20:30	30°♂♂	
minimum elong	2684 Nov 05 08:21	13°♂21'29	0°45'27	min. Earth dist.	2685 Oct 18 10:14	29°♂20'38	0.65883 AU
asc. node	2684 Nov 07 12:40	10°♂42'03		inferior conj	2685 Oct 20 05:15	27°♂13'50	-1°44'57
morning rise	2684 Nov 11 00:42	7°♂31'45		minimum elong	2685 Oct 20 08:06	27°♂05'26	1°43'48
direct	2684 Nov 14 06:39	6°♂31'04		asc. node	2685 Oct 25 09:44	22°♂04'16	
morning max el	2684 Nov 21 05:43	10°♂24'10	19°05'56	morning rise	2685 Oct 26 07:09	21°♂31'53	
	2684 Dec 05 12:58	0°♂		direct	2685 Oct 29 04:09	20°♂45'58	
morning set	2684 Dec 14 00:57	13°♂11'20		morning max el	2685 Nov 04 18:16	24°♂21'19	18°23'52
desc. node	2684 Dec 15 09:11	15°♂17'03			2685 Nov 09 10:11	0°♂	
	2684 Dec 24 19:06	0°♂		morning set	2685 Nov 24 07:57	23°♂13'51	
max. Earth dist.	2684 Dec 28 08:43	5°♂36'22	1.44901 AU		2685 Nov 28 13:00	0°♂	
				desc. node	2685 Dec 02 06:14	5°♂55'58	
superior conj	2684 Dec 30 17:23	9°♂20'00	-1°32'03	superior conj	2685 Dec 09 19:01	17°♂50'06	-0°49'20
minimum elong	2684 Dec 30 08:25	8°♂44'34	1°31'11	minimum elong	2685 Dec 09 12:45	17°♂25'29	0°48'31
	2685 Jan 12 14:11	0°♂		max. Earth dist.	2685 Dec 11 03:49	19°♂58'58	1.45185 AU
evening rise	2685 Jan 14 13:35	3°♂13'49			2685 Dec 17 13:09	0°♂	
	2685 Jan 31 16:12	0°♂		evening rise	2685 Dec 25 22:48	13°♂11'32	
asc. node	2685 Feb 03 11:59	3°♂17'38		greatest brilliancy	2686 Jan 05 07:16	29°♂25'23	-0.8m
evening max el	2685 Feb 03 14:32	3°♂24'10	18°33'08		2686 Jan 05 16:14	0°♂	
retrograde	2685 Feb 10 04:06	7°♂01'16		evening max el	2686 Jan 17 23:41	16°♂52'21	19°12'14
evening set	2685 Feb 13 06:47	6°♂07'02		asc. node	2686 Jan 21 09:02	19°♂42'28	
inferior conj	2685 Feb 19 01:59	0°♂33'13	3°37'37	retrograde	2686 Jan 24 23:58	20°♂52'37	
minimum elong	2685 Feb 19 00:53	0°♂36'29	3°37'31	evening set	2686 Jan 28 09:12	19°♂45'45	
	2685 Feb 19 13:07	30°♂♂		inferior conj	2686 Feb 02 22:40	13°♂55'38	3°20'28
min. Earth dist.	2685 Feb 21 03:08	28°♂07'34	0.64698 AU	minimum elong	2686 Feb 02 20:33	14°♂02'25	3°20'07
morning rise	2685 Feb 24 18:28	24°♂24'03		min. Earth dist.	2686 Feb 04 08:35	12°♂07'08	0.66091 AU
direct	2685 Mar 03 13:12	21°♂33'24		morning rise	2686 Feb 08 07:37	7°♂43'08	
desc. node	2685 Mar 13 08:24	26°♂02'28		direct	2686 Feb 14 16:38	4°♂54'32	
morning max el	2685 Mar 17 00:17	29°♂23'43	27°17'04	morning max el	2686 Feb 27 10:10	12°♂26'52	26°17'39
	2685 Mar 17 14:33	0°♂		desc. node	2686 Feb 28 05:26	13°♂16'17	
	2685 Apr 08 12:22	0°♂			2686 Mar 13 13:05	0°♂	
morning set	2685 Apr 21 10:20	23°♂09'46		morning set	2686 Apr 01 04:03	0°♂	
	2685 Apr 24 20:50	0°♂		max. Earth dist.	2686 Apr 04 13:13	6°♂12'08	
max. Earth dist.	2685 Apr 26 03:03	2°♂34'11	1.33675 AU		2686 Apr 08 14:13	13°♂56'07	1.35072 AU
				superior conj	2686 Apr 13 11:46	23°♂44'43	-0°58'03
superior conj	2685 Apr 29 14:24	9°♂48'39	-0°29'43				
minimum elong	2685 Apr 29 15:54	9°♂56'37	0°29'24				
asc. node	2685 May 02 11:17	15°♂54'41					

minimum elong	2686 Apr 13 14:45	24° Υ 00'01	0°57'30		2687 Mar 24 06:52	0° Υ	
	2686 Apr 16 12:31	0° \mathcal{B}					
asc. node	2686 Apr 19 08:20	5° \mathcal{B} 52'50		superior conj	2687 Mar 27 23:21	7° Υ 07'30	-1°24'56
evening rise	2686 Apr 21 05:17	9° \mathcal{B} 45'34		minimum elong	2687 Mar 28 03:31	7° Υ 27'54	1°24'20
	2686 May 02 01:12	0° Π		evening rise	2687 Apr 05 08:23	23° Υ 53'55	
evening max el	2686 May 09 20:59	10° Π 03'06	20°37'49	asc. node	2687 Apr 06 05:23	25° Υ 38'58	
retrograde	2686 May 21 01:54	15° Π 30'30			2687 Apr 08 10:16	0° \mathcal{B}	
evening set	2686 May 23 03:36	15° Π 20'04		evening max el	2687 Apr 22 10:47	21° \mathcal{B} 38'36	19°30'21
desc. node	2686 May 27 04:42	14° Π 05'50		retrograde	2687 May 01 22:11	26° \mathcal{B} 13'49	
inferior conj	2686 Jun 01 09:31	11° Π 22'19	-1°31'11	evening set	2687 May 03 22:44	26° \mathcal{B} 02'11	
minimum elong	2686 Jun 01 05:13	11° Π 28'31	1°29'38	inferior conj	2687 May 12 13:12	21° \mathcal{B} 57'07	0°26'23
min. Earth dist.	2686 Jun 02 12:38	10° Π 43'19	0.54976 AU	minimum elong	2687 May 12 14:20	21° \mathcal{B} 55'18	0°25'59
morning rise	2686 Jun 10 06:08	7° Π 13'54		desc. node	2687 May 14 01:41	20° \mathcal{B} 58'23	
direct	2686 Jun 13 21:45	6° Π 45'12		min. Earth dist.	2687 May 15 03:03	20° \mathcal{B} 18'12	0.55866 AU
morning max el	2686 Jun 27 04:10	13° Π 09'21	23°11'02	morning rise	2687 May 21 03:08	17° \mathcal{B} 16'48	
	2686 Jul 09 23:14	0° \mathcal{E}		direct	2687 May 25 16:45	16° \mathcal{B} 29'39	
asc. node	2686 Jul 16 07:34	11° \mathcal{E} 38'30		morning max el	2687 Jun 08 18:36	23° \mathcal{B} 36'02	24°52'50
morning set	2686 Jul 20 06:28	19° \mathcal{E} 43'54			2687 Jun 14 13:20	0° Π	
	2686 Jul 25 01:44	0° \mathcal{Q}			2687 Jul 02 12:35	0° \mathcal{E}	
				asc. node	2687 Jul 03 04:38	1° \mathcal{E} 22'35	
superior conj	2686 Jul 27 08:08	4° \mathcal{Q} 52'23	1°33'22	morning set	2687 Jul 04 18:18	4° \mathcal{E} 39'40	
minimum elong	2686 Jul 27 06:06	4° \mathcal{Q} 41'26	1°33'09				
max. Earth dist.	2686 Jul 29 23:10	10° \mathcal{Q} 26'56	1.33711 AU	superior conj	2687 Jul 11 17:35	19° \mathcal{E} 45'29	1°19'13
evening rise	2686 Aug 03 23:42	20° \mathcal{Q} 43'52		minimum elong	2687 Jul 11 15:12	19° \mathcal{E} 32'31	1°18'52
	2686 Aug 08 19:35	0° \mathcal{M}		max. Earth dist.	2687 Jul 13 04:16	22° \mathcal{E} 54'05	1.32785 AU
desc. node	2686 Aug 23 04:02	23° \mathcal{M} 45'32			2687 Jul 16 11:50	0° \mathcal{Q}	
	2686 Aug 27 15:13	0° \mathcal{L}		evening rise	2687 Jul 18 22:22	5° \mathcal{Q} 04'12	
evening max el	2686 Sep 07 05:40	12° \mathcal{L} 15'52	27°18'55		2687 Aug 01 10:54	0° \mathcal{M}	
retrograde	2686 Sep 20 17:06	19° \mathcal{L} 34'28		desc. node	2687 Aug 10 01:03	12° \mathcal{M} 52'33	
evening set	2686 Sep 27 18:10	16° \mathcal{L} 52'00		evening max el	2687 Aug 20 15:26	25° \mathcal{M} 14'29	27°24'36
min. Earth dist.	2686 Oct 01 12:26	13° \mathcal{L} 22'25	0.64522 AU		2687 Aug 26 16:07	0° \mathcal{L}	
inferior conj	2686 Oct 03 19:56	10° \mathcal{L} 52'57	-2°44'14	retrograde	2687 Sep 03 09:32	2° \mathcal{L} 31'12	
minimum elong	2686 Oct 04 00:22	10° \mathcal{L} 41'00	2°42'39	evening set	2687 Sep 10 14:23	29° \mathcal{M} 59'08	
morning rise	2686 Oct 10 07:38	5° \mathcal{L} 25'36			2687 Sep 10 13:54	30° \mathcal{R} \mathcal{M}	
asc. node	2686 Oct 12 06:47	4° \mathcal{L} 52'49		min. Earth dist.	2687 Sep 14 04:54	26° \mathcal{M} 59'46	0.62829 AU
direct	2686 Oct 12 22:02	4° \mathcal{L} 50'43		inferior conj	2687 Sep 17 00:28	24° \mathcal{M} 16'40	-3°40'27
morning max el	2686 Oct 19 10:06	8° \mathcal{L} 17'34	17°58'40	minimum elong	2687 Sep 17 05:56	24° \mathcal{M} 03'26	3°38'53
	2686 Nov 03 01:11	0° \mathcal{M}		morning rise	2687 Sep 23 22:56	19° \mathcal{M} 07'04	
morning set	2686 Nov 05 19:42	4° \mathcal{M} 40'38		direct	2687 Sep 26 09:26	18° \mathcal{M} 39'41	
				asc. node	2687 Sep 29 03:48	19° \mathcal{M} 15'51	
superior conj	2686 Nov 19 06:58	26° \mathcal{M} 55'37	-0°01'03	morning max el	2687 Oct 03 02:16	22° \mathcal{M} 06'10	17°51'07
minimum elong	2686 Nov 19 06:50	26° \mathcal{M} 55'07	0°01'02		2687 Oct 09 04:14	0° \mathcal{L}	
behind sun begin	2686 Nov 18 20:29	26° \mathcal{M} 13'26		morning set	2687 Oct 19 06:53	17° \mathcal{L} 15'05	
behind sun end	2686 Nov 19 17:11	27° \mathcal{M} 36'45			2687 Oct 26 13:26	0° \mathcal{M}	
desc. node	2686 Nov 19 03:16	26° \mathcal{M} 40'47					
	2686 Nov 21 04:58	0° \mathcal{X}		superior conj	2687 Oct 30 19:29	7° \mathcal{M} 14'27	0°41'45
max. Earth dist.	2686 Nov 23 22:33	4° \mathcal{X} 20'38	1.44728 AU	minimum elong	2687 Oct 30 23:16	7° \mathcal{M} 30'18	0°41'13
evening rise	2686 Dec 05 13:18	22° \mathcal{X} 27'06		desc. node	2687 Nov 06 00:20	17° \mathcal{M} 28'18	
	2686 Dec 10 11:23	0° \mathcal{Z}		max. Earth dist.	2687 Nov 06 14:15	18° \mathcal{M} 24'34	1.43599 AU
greatest brilliancy	2686 Dec 19 22:37	14° \mathcal{Z} 15'21	-0.6m		2687 Nov 13 21:51	0° \mathcal{X}	
	2686 Dec 31 19:39	0° \approx		evening rise	2687 Nov 14 22:16	1° \mathcal{X} 34'48	
evening max el	2687 Jan 01 04:11	0° \approx 22'14	20°07'01		2687 Dec 04 01:43	0° \mathcal{Z}	
asc. node	2687 Jan 08 06:03	4° \approx 51'44		evening max el	2687 Dec 15 03:14	13° \mathcal{Z} 53'37	21°14'43
retrograde	2687 Jan 08 21:50	4° \approx 54'07		retrograde	2687 Dec 23 19:27	19° \mathcal{Z} 02'32	
evening set	2687 Jan 12 15:07	3° \approx 33'27		asc. node	2687 Dec 26 03:04	18° \mathcal{Z} 32'54	
	2687 Jan 16 03:18	30° \mathcal{R} \mathcal{Z}		evening set	2687 Dec 27 22:38	17° \mathcal{Z} 26'38	
inferior conj	2687 Jan 18 01:10	27° \mathcal{Z} 29'46	2°52'16	inferior conj	2688 Jan 02 07:11	11° \mathcal{Z} 12'32	2°15'22
minimum elong	2687 Jan 17 22:37	27° \mathcal{Z} 38'21	2°51'38	minimum elong	2688 Jan 02 04:43	11° \mathcal{Z} 21'03	2°14'33
min. Earth dist.	2687 Jan 18 21:16	26° \mathcal{Z} 22'08	0.67079 AU	min. Earth dist.	2688 Jan 02 14:57	10° \mathcal{Z} 45'44	0.67673 AU
morning rise	2687 Jan 23 05:55	21° \mathcal{Z} 16'10		morning rise	2688 Jan 07 10:36	4° \mathcal{Z} 59'44	
direct	2687 Jan 29 01:47	18° \mathcal{Z} 40'12		direct	2688 Jan 12 15:45	2° \mathcal{Z} 43'20	
morning max el	2687 Feb 09 18:56	25° \mathcal{Z} 39'59	24°58'46	morning max el	2688 Jan 23 03:31	8° \mathcal{Z} 58'04	23°30'51
	2687 Feb 13 18:09	0° \approx		desc. node	2688 Feb 01 23:31	20° \mathcal{Z} 42'31	
desc. node	2687 Feb 15 02:28	1° \approx 35'51			2688 Feb 08 16:07	0° \approx	
	2687 Mar 07 02:01	0° \mathcal{H}		morning set	2688 Feb 27 08:33	29° \approx 15'05	
morning set	2687 Mar 17 22:41	18° \mathcal{H} 19'25			2688 Feb 27 19:09	0° \mathcal{H}	
max. Earth dist.	2687 Mar 21 14:10	24° \mathcal{H} 56'40	1.36893 AU	max. Earth dist.	2688 Mar 02 08:53	6° \mathcal{H} 09'52	1.39009 AU

superior conj	2688 Mar 09 21:22	19° H 47'28	-1°47'43		2689 Feb 19 03:57	0° H	
minimum elong	2688 Mar 10 01:43	20° H 07'49	1°47'19				
	2688 Mar 15 06:02	0° Y		superior conj	2689 Feb 20 01:01	1° H 33'07	-2°02'41
evening rise	2688 Mar 19 03:42	7° Y 34'21		minimum elong	2689 Feb 20 03:38	1° H 44'40	2°02'35
asc. node	2688 Mar 23 02:24	15° Y 07'50		evening rise	2689 Mar 02 11:54	20° H 39'17	
	2688 Apr 01 02:22	0° B			2689 Mar 07 13:49	0° Y	
evening max el	2688 Apr 04 11:02	3° B 52'19	18°42'40	asc. node	2689 Mar 09 23:26	4° Y 13'45	
retrograde	2688 Apr 12 11:19	7° B 47'08		evening max el	2689 Mar 18 18:37	16° Y 36'45	18°15'04
evening set	2688 Apr 14 17:27	7° B 29'41		retrograde	2689 Mar 25 19:32	20° Y 08'00	
inferior conj	2688 Apr 22 12:10	3° B 07'04	2°00'49	evening set	2689 Mar 28 07:53	19° Y 41'55	
minimum elong	2688 Apr 22 15:57	3° B 00'01	1°59'43	inferior conj	2689 Apr 04 08:31	14° Y 58'20	3°02'01
min. Earth dist.	2688 Apr 25 20:11	0° B 38'42	0.57523 AU	minimum elong	2689 Apr 04 11:53	14° Y 50'58	3°01'21
	2688 Apr 26 18:31	30° R Y		min. Earth dist.	2689 Apr 07 18:12	12° Y 01'17	0.59603 AU
desc. node	2688 Apr 29 22:42	28° Y 07'45		morning rise	2689 Apr 11 13:27	9° Y 17'52	
morning rise	2688 Apr 30 11:17	27° Y 52'56		desc. node	2689 Apr 16 19:43	7° Y 27'58	
direct	2688 May 06 01:48	26° Y 35'21		direct	2689 Apr 17 23:38	7° Y 24'16	
	2688 May 15 11:22	0° B		morning max el	2689 May 02 07:44	15° Y 12'27	27°23'46
morning max el	2688 May 20 10:20	4° B 08'29	26°21'55		2689 May 14 07:16	0° B	
	2688 Jun 08 03:45	0° II			2689 May 31 12:11	0° II	
morning set	2688 Jun 18 05:10	19° II 31'03		morning set	2689 Jun 02 13:25	4° II 12'50	
asc. node	2688 Jun 19 01:40	21° II 19'35		asc. node	2689 Jun 05 22:43	11° II 24'43	
	2688 Jun 23 01:43	0° E		max. Earth dist.	2689 Jun 09 02:51	18° II 20'21	1.32132 AU
superior conj	2688 Jun 25 05:00	4° E 42'05	1°00'45	superior conj	2689 Jun 09 16:41	19° II 36'26	0°38'39
minimum elong	2688 Jun 25 02:46	4° E 29'51	1°00'20	minimum elong	2689 Jun 09 15:03	19° II 27'30	0°38'20
max. Earth dist.	2688 Jun 25 14:42	5° E 35'28	1.32261 AU		2689 Jun 14 10:28	0° E	
evening rise	2688 Jul 02 03:34	19° E 42'18		evening rise	2689 Jun 16 12:58	4° E 30'28	
	2688 Jul 07 06:11	0° O			2689 Jun 30 01:49	0° O	
	2688 Jul 26 00:10	0° P		desc. node	2689 Jul 13 01:02	18° O 09'07	
desc. node	2688 Jul 26 22:02	1° P 07'32		evening max el	2689 Jul 14 18:35	19° O 06'43	25°58'01
evening max el	2688 Aug 01 20:33	7° P 34'28	26°57'33	retrograde	2689 Jul 28 18:17	26° O 15'49	
retrograde	2688 Aug 15 18:27	14° P 47'10		evening set	2689 Aug 04 00:24	24° O 41'52	
evening set	2688 Aug 22 18:04	12° P 38'35		min. Earth dist.	2689 Aug 08 07:00	22° O 05'12	0.58805 AU
min. Earth dist.	2688 Aug 26 10:47	9° P 58'46	0.60872 AU	inferior conj	2689 Aug 11 13:28	19° O 40'44	-4°58'15
inferior conj	2688 Aug 29 15:31	7° P 15'55	-4°28'08	minimum elong	2689 Aug 11 15:55	19° O 36'12	4°58'05
minimum elong	2688 Aug 29 20:39	7° P 04'57	4°27'09	morning rise	2689 Aug 19 09:38	15° O 15'06	
morning rise	2688 Sep 06 01:03	2° P 27'10		direct	2689 Aug 21 21:04	14° O 54'48	
direct	2688 Sep 08 10:35	2° P 04'23		morning max el	2689 Aug 29 23:06	18° O 46'42	18°33'58
asc. node	2688 Sep 15 00:51	5° P 04'10		asc. node	2689 Sep 01 21:55	22° O 03'15	
morning max el	2688 Sep 15 15:40	5° P 38'45	18°02'26		2689 Sep 07 05:47	0° P	
morning set	2688 Oct 01 11:14	0° A 38'27		morning set	2689 Sep 15 03:42	14° P 36'42	
	2688 Oct 01 02:56	0° A			2689 Sep 23 04:02	0° A	
superior conj	2688 Oct 11 10:35	18° A 50'55	1°13'33	superior conj	2689 Sep 23 23:53	1° A 32'59	1°33'40
minimum elong	2688 Oct 11 14:54	19° A 10'03	1°13'02	minimum elong	2689 Sep 24 02:53	1° A 46'59	1°33'27
	2688 Oct 17 21:31	0° M		max. Earth dist.	2689 Oct 01 07:45	14° A 47'28	1.39938 AU
max. Earth dist.	2688 Oct 19 01:27	1° M 56'59	1.41933 AU	evening rise	2689 Oct 05 12:17	21° A 57'16	
desc. node	2688 Oct 22 21:21	8° M 14'46		desc. node	2689 Oct 09 18:22	28° A 56'43	
evening rise	2688 Oct 24 18:23	11° M 15'58			2689 Oct 10 10:07	0° M	
	2688 Nov 05 23:19	0° J			2689 Oct 31 00:04	0° J	
evening max el	2688 Nov 26 21:04	27° J 26'57	22°31'19	evening max el	2689 Nov 09 11:00	11° J 02'51	23°51'17
	2688 Nov 29 15:19	0° Z		retrograde	2689 Nov 20 07:42	17° J 26'46	
retrograde	2688 Dec 06 15:11	3° Z 14'41		evening set	2689 Nov 25 11:54	15° J 17'33	
evening set	2688 Dec 11 06:06	1° Z 22'19		asc. node	2689 Nov 28 21:07	11° J 36'19	
asc. node	2688 Dec 12 00:05	0° Z 42'24		inferior conj	2689 Nov 30 21:54	8° J 53'19	0°41'31
	2688 Dec 12 16:54	30° R J		minimum elong	2689 Nov 30 20:56	8° J 56'37	0°41'06
inferior conj	2688 Dec 16 14:42	25° J 01'15	1°31'22	min. Earth dist.	2689 Nov 30 07:42	9° J 41'35	0.67768 AU
minimum elong	2688 Dec 16 12:47	25° J 07'54	1°30'37	morning rise	2689 Dec 06 05:58	2° J 47'51	
min. Earth dist.	2688 Dec 16 11:12	25° J 13'21	0.67894 AU	direct	2689 Dec 10 06:17	1° J 16'53	
morning rise	2688 Dec 21 19:19	18° J 51'09		morning max el	2689 Dec 18 09:51	5° J 58'54	20°44'10
direct	2688 Dec 26 09:36	16° J 57'28			2690 Jan 05 10:17	0° Z	
morning max el	2689 Jan 04 15:23	22° J 23'18	22°03'33	desc. node	2690 Jan 05 17:35	0° Z 27'07	
	2689 Jan 11 04:56	0° Z		morning set	2690 Jan 16 17:23	17° Z 11'32	
desc. node	2689 Jan 18 20:33	10° Z 22'56			2690 Jan 24 19:24	0° A	
	2689 Feb 01 00:22	0° A		max. Earth dist.	2690 Jan 25 12:02	1° A 07'17	1.43033 AU
morning set	2689 Feb 06 13:49	8° A 48'01		superior conj	2690 Feb 01 05:01	12° A 11'17	-2°04'59
max. Earth dist.	2689 Feb 12 06:50	18° A 10'47	1.41154 AU				

minimum elong	2690 Feb 01 03:10	12° \approx 03'31	2°04'56	morning max el	2690 Dec 01 12:15	19° \mathbb{M} 46'02	19°37'29
	2690 Feb 11 12:26	0° \mathbb{H}			2690 Dec 09 16:52	0° \mathbb{A}	
evening rise	2690 Feb 13 04:52	2° \mathbb{H} 58'57		greatest brilliancy	2690 Dec 14 17:07	7° \mathbb{A} 17'46	-0.7m
asc. node	2690 Feb 24 20:28	22° \mathbb{H} 48'29		desc. node	2690 Dec 23 14:38	20° \mathbb{A} 48'54	
evening max el	2690 Mar 02 06:11	29° \mathbb{H} 41'59	18°07'11	morning set	2690 Dec 26 14:09	25° \mathbb{A} 24'34	
	2690 Mar 02 13:36	0° \mathbb{Y}			2690 Dec 29 13:15	0° \mathbb{B}	
retrograde	2690 Mar 08 19:19	3° \mathbb{Y} 05'23		max. Earth dist.	2691 Jan 08 00:11	14° \mathbb{B} 49'28	1.44406 AU
evening set	2690 Mar 11 13:10	2° \mathbb{Y} 29'15					
	2690 Mar 15 06:19	30° \mathbb{K} \mathbb{H}		superior conj	2691 Jan 12 06:51	21° \mathbb{B} 39'10	-1°49'40
inferior conj	2690 Mar 17 23:28	27° \mathbb{H} 25'02	3°33'11	minimum elong	2691 Jan 11 23:28	21° \mathbb{B} 09'32	1°49'09
minimum elong	2690 Mar 18 01:04	27° \mathbb{H} 21'01	3°33'02		2691 Jan 17 10:16	0° \approx	
min. Earth dist.	2690 Mar 20 23:58	24° \mathbb{H} 24'01	0.61755 AU	evening rise	2691 Jan 26 02:16	14° \approx 25'35	
morning rise	2690 Mar 24 11:26	21° \mathbb{H} 27'51			2691 Feb 04 09:44	0° \mathbb{H}	
direct	2690 Mar 31 07:58	19° \mathbb{H} 02'15		asc. node	2691 Feb 11 17:30	10° \mathbb{H} 42'38	
desc. node	2690 Apr 03 16:45	19° \mathbb{H} 34'20		evening max el	2691 Feb 13 18:49	13° \mathbb{H} 00'47	18°18'22
morning max el	2690 Apr 14 11:31	26° \mathbb{H} 58'20	27°49'49	retrograde	2691 Feb 20 05:53	16° \mathbb{H} 29'38	
	2690 Apr 17 08:18	0° \mathbb{Y}		evening set	2691 Feb 23 05:08	15° \mathbb{H} 42'24	
	2690 May 07 22:10	0° \mathbb{B}		inferior conj	2691 Mar 01 04:55	10° \mathbb{H} 19'03	3°41'06
morning set	2690 May 17 17:06	18° \mathbb{B} 38'28		minimum elong	2691 Mar 01 04:40	10° \mathbb{H} 19'44	3°41'06
	2690 May 23 02:31	0° \mathbb{II}		min. Earth dist.	2691 Mar 03 15:08	7° \mathbb{H} 35'42	0.63720 AU
max. Earth dist.	2690 May 23 12:45	0° \mathbb{II} 55'18	1.32394 AU	morning rise	2691 Mar 07 03:22	4° \mathbb{H} 12'42	
asc. node	2690 May 23 19:46	1° \mathbb{II} 33'22		direct	2691 Mar 14 01:00	1° \mathbb{H} 26'46	
				desc. node	2691 Mar 21 13:48	4° \mathbb{H} 07'27	
superior conj	2690 May 25 02:55	4° \mathbb{II} 22'46	0°13'39	morning max el	2691 Mar 27 19:44	9° \mathbb{H} 22'53	27°38'36
minimum elong	2690 May 25 02:17	4° \mathbb{II} 19'19	0°13'32		2691 Apr 12 21:32	0° \mathbb{Y}	
behind sun begin	2690 May 24 23:35	4° \mathbb{II} 04'34			2691 Apr 30 05:17	0° \mathbb{B}	
behind sun end	2690 May 25 04:59	4° \mathbb{II} 34'04		morning set	2691 May 01 13:49	2° \mathbb{B} 40'15	
evening rise	2690 Jun 01 00:28	19° \mathbb{II} 21'37		max. Earth dist.	2691 May 06 16:19	13° \mathbb{B} 07'05	1.33076 AU
	2690 Jun 06 05:15	0° \mathbb{B}					
	2690 Jun 26 11:49	0° \mathbb{Q}		superior conj	2691 May 09 09:54	18° \mathbb{B} 55'18	-0°13'31
evening max el	2690 Jun 26 09:50	29° \mathbb{B} 55'14	24°33'20	minimum elong	2691 May 09 10:34	18° \mathbb{B} 58'53	0°13'22
desc. node	2690 Jun 30 16:02	3° \mathbb{Q} 28'18		behind sun begin	2691 May 09 07:38	18° \mathbb{B} 43'11	
retrograde	2690 Jul 10 07:32	6° \mathbb{Q} 57'14		behind sun end	2691 May 09 13:30	19° \mathbb{B} 14'36	
evening set	2690 Jul 15 06:53	6° \mathbb{Q} 01'37		asc. node	2691 May 10 16:49	21° \mathbb{B} 41'25	
min. Earth dist.	2690 Jul 20 20:52	3° \mathbb{Q} 09'37	0.56890 AU		2691 May 14 13:22	0° \mathbb{II}	
inferior conj	2690 Jul 23 15:34	1° \mathbb{Q} 22'38	-4°57'32	evening rise	2691 May 16 12:12	4° \mathbb{II} 09'26	
minimum elong	2690 Jul 23 12:48	1° \mathbb{Q} 27'08	4°57'20		2691 May 30 13:16	0° \mathbb{B}	
	2690 Jul 25 20:13	30° \mathbb{K} \mathbb{B}		evening max el	2691 Jun 07 23:32	10° \mathbb{B} 22'52	22°57'17
morning rise	2690 Jul 31 21:23	27° \mathbb{B} 18'25		desc. node	2691 Jun 17 13:04	16° \mathbb{B} 29'31	
direct	2690 Aug 03 12:47	26° \mathbb{B} 59'15		retrograde	2691 Jun 21 08:25	17° \mathbb{B} 02'36	
	2690 Aug 11 07:45	0° \mathbb{Q}		evening set	2691 Jun 24 19:25	16° \mathbb{B} 36'22	
morning max el	2690 Aug 12 21:35	1° \mathbb{Q} 21'06	19°26'50	min. Earth dist.	2691 Jul 02 08:29	13° \mathbb{B} 14'54	0.55480 AU
asc. node	2690 Aug 19 18:59	9° \mathbb{Q} 58'22		inferior conj	2691 Jul 03 22:23	12° \mathbb{B} 20'04	-4°11'47
morning set	2690 Aug 30 04:39	28° \mathbb{Q} 59'48		minimum elong	2691 Jul 03 14:51	12° \mathbb{B} 31'01	4°10'09
	2690 Aug 30 16:40	0° \mathbb{M}		morning rise	2691 Jul 12 12:39	8° \mathbb{B} 27'49	
				direct	2691 Jul 15 09:44	8° \mathbb{B} 08'17	
superior conj	2690 Sep 07 05:52	15° \mathbb{M} 05'07	1°43'31	morning max el	2691 Jul 26 08:51	13° \mathbb{B} 13'17	20°40'49
minimum elong	2690 Sep 07 07:03	15° \mathbb{M} 10'51	1°43'29	asc. node	2691 Aug 06 16:03	28° \mathbb{B} 36'07	
max. Earth dist.	2690 Sep 13 11:43	26° \mathbb{M} 58'05	1.37870 AU		2691 Aug 07 10:57	0° \mathbb{Q}	
	2690 Sep 15 03:35	0° \mathbb{Q}		morning set	2691 Aug 14 11:10	13° \mathbb{Q} 39'20	
evening rise	2690 Sep 17 05:55	3° \mathbb{Q} 44'59					
desc. node	2690 Sep 26 15:24	19° \mathbb{Q} 30'19		superior conj	2691 Aug 21 23:41	29° \mathbb{Q} 12'21	1°44'52
	2690 Oct 03 11:49	0° \mathbb{M}		minimum elong	2691 Aug 21 23:14	29° \mathbb{Q} 10'01	1°44'51
evening max el	2690 Oct 22 23:11	24° \mathbb{M} 42'31	25°08'03		2691 Aug 22 09:02	0° \mathbb{M}	
	2690 Oct 29 14:54	0° \mathbb{A}		max. Earth dist.	2691 Aug 26 19:01	8° \mathbb{M} 48'46	1.35981 AU
retrograde	2690 Nov 03 20:12	1° \mathbb{A} 35'02		evening rise	2691 Aug 30 19:58	16° \mathbb{M} 30'29	
	2690 Nov 08 12:42	30° \mathbb{K} \mathbb{M}			2691 Sep 07 10:49	0° \mathbb{Q}	
evening set	2690 Nov 09 14:24	29° \mathbb{M} 10'15		desc. node	2691 Sep 13 12:26	9° \mathbb{Q} 49'49	
min. Earth dist.	2690 Nov 14 02:10	24° \mathbb{M} 08'34	0.67303 AU		2691 Sep 27 22:00	0° \mathbb{M}	
inferior conj	2690 Nov 15 03:06	22° \mathbb{M} 47'06	-0°12'58	evening max el	2691 Oct 05 11:20	8° \mathbb{M} 22'47	26°14'22
minimum elong	2690 Nov 15 03:25	22° \mathbb{M} 46'02	0°12'50	retrograde	2691 Oct 18 03:48	15° \mathbb{M} 32'54	
transit middle	2690 Nov 15 03:25	22° \mathbb{M} 46'02	0°12'50	evening set	2691 Oct 24 11:44	12° \mathbb{M} 56'07	
transit begin	2690 Nov 15 01:44	22° \mathbb{M} 51'34		min. Earth dist.	2691 Oct 28 16:14	8° \mathbb{M} 30'00	0.66497 AU
transit end	2690 Nov 15 05:07	22° \mathbb{M} 40'29		inferior conj	2691 Oct 30 04:22	6° \mathbb{M} 38'41	-1°10'48
asc. node	2690 Nov 15 18:10	21° \mathbb{M} 58'03		minimum elong	2691 Oct 30 06:15	6° \mathbb{M} 32'52	1°10'00
morning rise	2690 Nov 20 16:39	16° \mathbb{M} 48'31		asc. node	2691 Nov 02 15:13	2° \mathbb{M} 43'25	
direct	2690 Nov 24 04:38	15° \mathbb{M} 37'53		morning rise	2691 Nov 05 01:16	0° \mathbb{M} 49'36	

	2691 Nov 07 06:21	30° \mathbb{R} ♄		morning rise	2692 Oct 19 05:29	14° \mathbb{L} 47'28	
direct	2691 Nov 08 03:01	29° \mathbb{L} 55'47		asc. node	2692 Oct 19 12:17	14° \mathbb{L} 39'33	
	2691 Nov 08 23:54	0° \mathbb{M}		direct	2692 Oct 21 23:23	14° \mathbb{L} 06'38	
morning max el	2691 Nov 14 21:37	3° \mathbb{M} 40'35	18°46'00	morning max el	2692 Oct 28 11:46	17° \mathbb{L} 37'28	18°10'59
	2691 Dec 03 06:34	0° \mathbb{J}			2692 Nov 06 14:51	0° \mathbb{M}	
morning set	2691 Dec 06 04:42	4° \mathbb{J} 36'41		morning set	2692 Nov 16 00:17	15° \mathbb{M} 16'32	
desc. node	2691 Dec 10 11:42	11° \mathbb{J} 22'44			2692 Nov 25 01:39	0° \mathbb{J}	
max. Earth dist.	2691 Dec 21 17:11	29° \mathbb{J} 01'02	1.45113 AU	desc. node	2692 Nov 26 08:44	2° \mathbb{J} 04'30	
	2691 Dec 22 08:12	0° \mathbb{S}					
superior conj	2691 Dec 22 12:30	0° \mathbb{S} 16'56	-1°15'26	superior conj	2692 Nov 30 15:55	8° \mathbb{J} 54'59	-0°28'47
minimum elong	2691 Dec 22 03:52	29° \mathbb{J} 43'00	1°14'27	minimum elong	2692 Nov 30 12:14	8° \mathbb{J} 40'25	0°28'17
evening rise	2692 Jan 07 00:44	24° \mathbb{S} 54'33		max. Earth dist.	2692 Dec 03 12:28	13° \mathbb{J} 25'23	1.45082 AU
	2692 Jan 10 04:36	0° \mathbb{A}			2692 Dec 14 03:03	0° \mathbb{S}	
greatest brilliancy	2692 Jan 13 18:59	5° \mathbb{A} 47'30	-0.9m	evening rise	2692 Dec 17 00:51	4° \mathbb{S} 31'24	
evening max el	2692 Jan 28 05:55	26° \mathbb{A} 27'22	18°47'44	greatest brilliancy	2692 Dec 29 10:16	23° \mathbb{S} 37'50	-0.7m
asc. node	2692 Jan 29 14:31	27° \mathbb{A} 44'23			2693 Jan 02 17:44	0° \mathbb{A}	
	2692 Feb 02 10:29	0° \mathbb{H}		evening max el	2693 Jan 10 13:21	9° \mathbb{A} 57'13	19°33'48
retrograde	2692 Feb 03 23:14	0° \mathbb{H} 13'04		asc. node	2693 Jan 15 11:32	13° \mathbb{A} 39'21	
	2692 Feb 05 11:28	30° \mathbb{R} ♄		retrograde	2693 Jan 17 20:06	14° \mathbb{A} 09'34	
evening set	2692 Feb 07 04:30	29° \mathbb{A} 13'45		evening set	2693 Jan 21 08:39	12° \mathbb{A} 56'55	
inferior conj	2692 Feb 12 20:59	23° \mathbb{A} 32'59	3°31'50	inferior conj	2693 Jan 26 20:26	7° \mathbb{A} 00'53	3°09'41
minimum elong	2692 Feb 12 19:22	23° \mathbb{A} 37'55	3°31'40	minimum elong	2693 Jan 26 18:03	7° \mathbb{A} 08'40	3°09'12
min. Earth dist.	2692 Feb 14 15:38	21° \mathbb{A} 22'01	0.65345 AU	min. Earth dist.	2693 Jan 28 00:17	5° \mathbb{A} 29'37	0.66567 AU
morning rise	2692 Feb 18 09:50	17° \mathbb{A} 22'05		morning rise	2693 Feb 01 03:14	0° \mathbb{A} 47'57	
direct	2692 Feb 25 01:09	14° \mathbb{A} 30'24		direct	2693 Feb 02 02:14	30° \mathbb{R} ♄	
desc. node	2692 Mar 07 10:52	20° \mathbb{A} 32'13			2693 Feb 07 07:05	28° \mathbb{S} 03'33	
morning max el	2692 Mar 09 05:29	22° \mathbb{A} 15'10	26°54'39	morning max el	2693 Feb 13 03:14	0° \mathbb{A}	
	2692 Mar 16 00:59	0° \mathbb{H}		desc. node	2693 Feb 19 14:42	5° \mathbb{A} 23'04	25°45'50
	2692 Apr 05 03:01	0° \mathbb{Y}			2693 Feb 22 07:54	8° \mathbb{A} 16'56	
morning set	2692 Apr 14 00:25	16° \mathbb{Y} 08'24		morning set	2693 Mar 10 13:47	0° \mathbb{H}	
max. Earth dist.	2692 Apr 18 09:54	24° \mathbb{Y} 46'50	1.34210 AU		2693 Mar 27 20:33	28° \mathbb{H} 49'19	
	2692 Apr 20 23:21	0° \mathbb{S}		max. Earth dist.	2693 Mar 28 11:54	0° \mathbb{Y}	
					2693 Mar 31 15:56	5° \mathbb{Y} 57'12	1.35805 AU
superior conj	2692 Apr 22 11:33	3° \mathbb{S} 07'42	-0°41'47	superior conj	2693 Apr 06 05:10	16° \mathbb{Y} 51'14	-1°09'45
minimum elong	2692 Apr 22 13:42	3° \mathbb{S} 18'53	0°41'21	minimum elong	2693 Apr 06 08:43	17° \mathbb{Y} 09'06	1°09'10
asc. node	2692 Apr 26 13:52	11° \mathbb{S} 44'54			2693 Apr 12 15:36	0° \mathbb{S}	
evening rise	2692 Apr 29 22:18	18° \mathbb{S} 47'54		asc. node	2693 Apr 13 10:52	1° \mathbb{S} 38'44	
	2692 May 05 12:14	0° \mathbb{I}		evening rise	2693 Apr 14 04:37	3° \mathbb{S} 09'24	
evening max el	2692 May 19 19:26	21° \mathbb{I} 02'09	21°24'56		2693 Apr 29 23:52	0° \mathbb{I}	
retrograde	2692 May 31 22:47	26° \mathbb{I} 59'03		evening max el	2693 May 02 02:20	2° \mathbb{I} 14'22	20°06'42
evening set	2692 Jun 03 07:38	26° \mathbb{I} 46'14		retrograde	2693 May 12 13:01	7° \mathbb{I} 18'25	
desc. node	2692 Jun 03 10:05	26° \mathbb{I} 45'08		evening set	2693 May 14 13:07	7° \mathbb{I} 08'02	
inferior conj	2692 Jun 12 17:14	22° \mathbb{I} 46'32	-2°38'41	desc. node	2693 May 21 07:06	4° \mathbb{I} 28'14	
minimum elong	2692 Jun 12 10:10	22° \mathbb{I} 56'25	2°36'22	inferior conj	2693 May 23 13:32	3° \mathbb{I} 08'52	-0°39'55
min. Earth dist.	2692 Jun 12 20:16	22° \mathbb{I} 42'16	0.54888 AU	minimum elong	2693 May 23 11:41	3° \mathbb{I} 11'38	0°39'14
morning rise	2692 Jun 21 13:18	18° \mathbb{I} 49'38		min. Earth dist.	2693 May 25 09:06	2° \mathbb{I} 03'57	0.55253 AU
direct	2692 Jun 24 20:19	18° \mathbb{I} 26'03			2693 May 29 05:17	30° \mathbb{R} ♄	
morning max el	2692 Jul 07 08:51	24° \mathbb{I} 21'45	22°12'47	morning rise	2693 Jun 01 08:34	28° \mathbb{S} 48'29	
	2692 Jul 12 11:33	0° \mathbb{S}		direct	2693 Jun 05 08:57	28° \mathbb{S} 13'23	
asc. node	2692 Jul 23 13:07	17° \mathbb{S} 46'18			2693 Jun 12 06:55	0° \mathbb{I}	
morning set	2692 Jul 28 21:09	28° \mathbb{S} 29'38		morning max el	2693 Jun 19 00:58	4° \mathbb{I} 56'26	23°54'50
	2692 Jul 29 14:23	0° \mathbb{Q}			2693 Jul 06 15:45	0° \mathbb{S}	
				asc. node	2693 Jul 10 10:09	7° \mathbb{S} 19'51	
superior conj	2692 Aug 05 01:40	13° \mathbb{Q} 44'03	1°39'15	morning set	2693 Jul 13 08:45	13° \mathbb{S} 24'47	
minimum elong	2692 Aug 05 00:03	13° \mathbb{Q} 35'31	1°39'08				
max. Earth dist.	2692 Aug 08 10:39	20° \mathbb{Q} 45'58	1.34431 AU	superior conj	2693 Jul 20 09:01	28° \mathbb{S} 31'05	1°27'55
evening rise	2692 Aug 13 01:53	0° \mathbb{M} 01'58		minimum elong	2693 Jul 20 06:46	28° \mathbb{S} 18'56	1°27'39
	2692 Aug 13 01:28	0° \mathbb{M}			2693 Jul 21 01:30	0° \mathbb{Q}	
desc. node	2692 Aug 30 09:26	29° \mathbb{M} 48'35		max. Earth dist.	2693 Jul 22 11:32	3° \mathbb{Q} 02'30	1.33273 AU
	2692 Aug 30 12:29	0° \mathbb{L}		evening rise	2693 Jul 27 19:24	14° \mathbb{Q} 07'04	
evening max el	2692 Sep 16 23:49	21° \mathbb{L} 56'28	27°02'26		2693 Aug 05 04:35	0° \mathbb{M}	
retrograde	2692 Sep 30 05:46	29° \mathbb{L} 13'30		desc. node	2693 Aug 17 06:27	19° \mathbb{M} 17'45	
evening set	2692 Oct 07 01:38	26° \mathbb{L} 30'52			2693 Aug 25 13:10	0° \mathbb{L}	
min. Earth dist.	2692 Oct 10 23:27	22° \mathbb{L} 40'56	0.65344 AU	evening max el	2693 Aug 30 11:15	5° \mathbb{L} 11'34	27°25'12
inferior conj	2692 Oct 12 23:36	20° \mathbb{L} 23'57	-2°10'15	retrograde	2693 Sep 13 01:36	12° \mathbb{L} 28'52	
minimum elong	2692 Oct 13 03:09	20° \mathbb{L} 13'50	2°08'51	evening set	2693 Sep 20 05:17	9° \mathbb{L} 49'29	

min. Earth dist.	2693 Sep 23 21:37	6°♄33'40	0.63841 AU	inferior conj	2694 Sep 09 09:30	17°♎11'23	-4°02'12
inferior conj	2693 Sep 26 10:20	3°♄57'21	-3°08'45	minimum elong	2694 Sep 09 15:03	16°♎58'37	4°00'49
minimum elong	2693 Sep 26 15:18	3°♄44'31	3°07'05	morning rise	2694 Sep 16 12:43	12°♎10'37	
	2693 Sep 30 17:19	30°♎		direct	2694 Sep 18 22:30	11°♎45'29	
morning rise	2693 Oct 03 02:30	28°♎37'02		asc. node	2694 Sep 23 06:24	13°♎09'26	
direct	2693 Oct 05 15:01	28°♎05'35		morning max el	2694 Sep 25 19:28	15°♎13'55	17°53'39
asc. node	2693 Oct 06 09:20	28°♎08'31			2694 Oct 06 00:57	0°♄	
	2693 Oct 10 10:53	0°♄		morning set	2694 Oct 11 17:57	10°♄11'47	
morning max el	2693 Oct 12 04:04	1°♄31'02	17°53'16				
morning set	2693 Oct 28 22:49	27°♄14'50		superior conj	2694 Oct 22 13:25	29°♄21'46	0°56'42
	2693 Oct 30 13:13	0°♄		minimum elong	2694 Oct 22 17:45	29°♄40'26	0°56'08
					2694 Oct 22 22:19	0°♄	
superior conj	2693 Nov 10 13:17	18°♄28'55	0°18'17	max. Earth dist.	2694 Oct 29 20:51	11°♄36'30	1.42935 AU
minimum elong	2693 Nov 10 15:16	18°♄37'00	0°17'59	desc. node	2694 Oct 31 02:46	13°♄38'16	
desc. node	2693 Nov 13 05:45	22°♄50'56		evening rise	2694 Nov 05 22:45	22°♄55'46	
max. Earth dist.	2693 Nov 16 06:50	27°♄44'03	1.44322 AU		2694 Nov 10 12:25	0°♄	
	2693 Nov 17 17:03	0°♄			2694 Dec 01 11:44	0°♄	
evening rise	2693 Nov 26 11:01	13°♄39'08		evening max el	2694 Dec 07 12:11	6°♄59'37	21°46'30
	2693 Dec 07 05:50	0°♄		retrograde	2694 Dec 16 15:14	12°♄25'38	
evening max el	2693 Dec 24 15:37	23°♄28'19	20°34'27	asc. node	2694 Dec 20 05:37	11°♄14'58	
retrograde	2694 Jan 01 18:08	28°♄15'12		evening set	2694 Dec 20 23:12	10°♄42'40	
asc. node	2694 Jan 02 08:34	28°♄13'11		inferior conj	2694 Dec 26 07:33	4°♄24'54	1°57'31
evening set	2694 Jan 05 15:30	26°♄47'59		minimum elong	2694 Dec 26 05:16	4°♄32'50	1°56'42
inferior conj	2694 Jan 11 00:41	20°♄39'23	2°37'36	min. Earth dist.	2694 Dec 26 10:21	4°♄15'12	0.67803 AU
minimum elong	2694 Jan 10 22:06	20°♄48'10	2°36'51		2694 Dec 29 16:48	30°♎♄	
min. Earth dist.	2694 Jan 11 15:16	19°♄49'36	0.67378 AU	morning rise	2694 Dec 31 11:11	28°♄12'58	
morning rise	2694 Jan 16 04:33	14°♄26'08		direct	2695 Jan 05 09:48	26°♄06'18	
direct	2694 Jan 21 18:13	11°♄58'09			2695 Jan 13 05:50	0°♄	
morning max el	2694 Feb 01 23:13	18°♄39'20	24°22'01	morning max el	2695 Jan 15 08:54	2°♄00'36	22°53'14
desc. node	2694 Feb 09 04:56	26°♄58'50		desc. node	2695 Jan 27 01:58	16°♄21'07	
	2694 Feb 11 13:01	0°♄			2695 Feb 05 13:33	0°♄	
	2694 Mar 03 16:16	0°♄		morning set	2695 Feb 18 18:54	20°♄50'01	
morning set	2694 Mar 09 20:46	10°♄28'32		max. Earth dist.	2695 Feb 23 08:29	28°♄31'53	1.39932 AU
max. Earth dist.	2694 Mar 13 13:16	17°♄01'24	1.37779 AU		2695 Feb 24 04:56	0°♄	
superior conj	2694 Mar 20 11:31	29°♄57'34	-1°35'16	superior conj	2695 Mar 03 02:19	12°♄15'42	-1°55'18
minimum elong	2694 Mar 20 15:56	0°♄18'47	1°34'44	minimum elong	2695 Mar 03 06:14	12°♄33'36	1°55'00
	2694 Mar 20 12:02	0°♄		evening rise	2695 Mar 12 19:52	0°♄34'13	
evening rise	2694 Mar 29 04:49	17°♄07'36			2695 Mar 12 12:42	0°♄	
asc. node	2694 Mar 31 07:53	21°♄18'36		asc. node	2695 Mar 18 04:55	10°♄38'53	
	2694 Apr 04 22:49	0°♄		evening max el	2695 Mar 29 00:33	26°♄34'39	18°28'27
evening max el	2694 Apr 14 20:49	14°♄06'39	19°07'26		2695 Apr 03 10:28	0°♄	
retrograde	2694 Apr 23 16:04	18°♄23'06		retrograde	2695 Apr 05 13:40	0°♄17'44	
evening set	2694 Apr 25 18:37	18°♄09'26		evening set	2695 Apr 07 22:19	29°♄57'02	
inferior conj	2694 May 04 00:43	13°♄57'12	1°10'20		2695 Apr 07 18:01	30°♎♄	
minimum elong	2694 May 04 03:25	13°♄52'35	1°09'25	inferior conj	2695 Apr 15 08:59	25°♄25'44	2°30'49
min. Earth dist.	2694 May 07 00:15	11°♄55'36	0.56503 AU	minimum elong	2695 Apr 15 12:52	25°♄17'57	2°29'49
desc. node	2694 May 08 04:07	11°♄11'04		min. Earth dist.	2695 Apr 18 19:27	22°♄41'58	0.58374 AU
morning rise	2694 May 12 09:09	9°♄02'02		morning rise	2695 Apr 23 00:24	19°♄58'45	
direct	2694 May 17 09:17	8°♄03'31		desc. node	2695 Apr 25 01:07	19°♄06'46	
morning max el	2694 May 31 15:23	15°♄22'29	25°33'15	direct	2695 Apr 29 00:04	18°♄25'58	
	2694 Jun 12 09:02	0°♄		morning max el	2695 May 13 09:28	26°♄07'29	26°52'12
asc. node	2694 Jun 27 07:11	27°♄10'08			2695 May 17 00:58	0°♄	
morning set	2694 Jun 27 20:23	28°♄19'34			2695 Jun 05 16:27	0°♄	
	2694 Jun 28 15:19	0°♄		morning set	2695 Jun 12 06:24	13°♄08'33	
				asc. node	2695 Jun 14 04:13	17°♄11'43	
superior conj	2694 Jul 04 19:31	13°♄26'23	1°11'50				
minimum elong	2694 Jul 04 17:09	13°♄13'24	1°11'28	superior conj	2695 Jun 19 07:19	28°♄23'42	0°51'47
max. Earth dist.	2694 Jul 05 19:25	15°♄37'16	1.32517 AU	minimum elong	2695 Jun 19 05:17	28°♄12'35	0°51'24
evening rise	2694 Jul 11 21:10	28°♄35'46		max. Earth dist.	2695 Jun 19 07:00	28°♄21'57	1.32155 AU
	2694 Jul 12 13:31	0°♄			2695 Jun 20 00:47	0°♄	
	2694 Jul 29 09:36	0°♄		evening rise	2695 Jun 26 04:27	13°♄19'42	
desc. node	2694 Aug 04 03:27	8°♄04'46			2695 Jul 04 15:28	0°♄	
evening max el	2694 Aug 12 19:10	17°♄54'23	27°17'07	desc. node	2695 Jul 22 00:27	25°♄52'23	
retrograde	2694 Aug 26 14:50	25°♄09'29			2695 Jul 25 23:31	0°♄	
evening set	2694 Sep 02 19:00	22°♄45'28		evening max el	2695 Jul 25 21:18	29°♄54'44	26°35'52
min. Earth dist.	2694 Sep 06 09:19	19°♄56'29	0.62021 AU	retrograde	2695 Aug 08 20:32	7°♄06'53	

evening set	2695 Aug 15 14:17	5° \mathbb{M} 11'44		retrograde	2696 Jul 20 16:21	18° Ω 15'01	
min. Earth dist.	2695 Aug 19 10:54	2° \mathbb{M} 35'34	0.59989 AU	evening set	2696 Jul 26 10:30	16° Ω 57'56	
inferior conj	2695 Aug 22 17:45	29° Ω 57'47	-4°43'47	min. Earth dist.	2696 Jul 31 04:20	14° Ω 16'30	0.57953 AU
minimum elong	2695 Aug 22 22:05	29° Ω 49'03	4°43'10	inferior conj	2696 Aug 03 07:33	12° Ω 05'56	-5°02'40
	2695 Aug 22 16:39	30° \mathbb{R} Ω		minimum elong	2696 Aug 03 08:01	12° Ω 05'09	5°02'39
morning rise	2695 Aug 30 07:57	25° Ω 19'04		morning rise	2696 Aug 11 07:56	7° Ω 49'37	
direct	2695 Sep 01 17:50	24° Ω 57'42		direct	2696 Aug 13 20:41	7° Ω 30'02	
morning max el	2695 Sep 09 06:52	28° Ω 38'20	18°13'19	morning max el	2696 Aug 22 10:52	11° Ω 33'33	18°53'42
asc. node	2695 Sep 10 03:27	29° Ω 30'27		asc. node	2696 Aug 27 00:31	16° Ω 55'20	
	2695 Sep 10 14:19	0° \mathbb{M}			2696 Sep 03 20:37	0° \mathbb{M}	
morning set	2695 Sep 25 04:02	23° \mathbb{M} 51'46		morning set	2696 Sep 08 00:32	8° \mathbb{M} 01'52	
	2695 Sep 28 09:58	0° Ω					
superior conj	2695 Oct 04 14:43	11° Ω 28'44	1°23'26	superior conj	2696 Sep 16 11:46	24° \mathbb{M} 33'56	1°39'00
minimum elong	2695 Oct 04 18:37	11° Ω 46'22	1°23'03	minimum elong	2696 Sep 16 14:00	24° \mathbb{M} 44'34	1°38'51
max. Earth dist.	2695 Oct 12 05:18	24° Ω 49'52	1.41104 AU		2696 Sep 19 09:01	0° Ω	
	2695 Oct 15 07:21	0° \mathbb{M}		max. Earth dist.	2696 Sep 23 09:54	7° Ω 21'19	1.39057 AU
evening rise	2695 Oct 17 03:25	3° \mathbb{M} 00'50		evening rise	2696 Sep 27 07:41	14° Ω 11'21	
desc. node	2695 Oct 17 23:48	4° \mathbb{M} 23'32		desc. node	2696 Oct 03 20:50	25° Ω 02'40	
	2695 Nov 03 20:50	0° \mathbb{M}			2696 Oct 07 00:08	0° \mathbb{M}	
evening max el	2695 Nov 20 04:02	20° \mathbb{M} 33'30	23°05'19	evening max el	2696 Oct 28 19:07	0° \mathbb{M}	
retrograde	2695 Nov 30 09:52	26° \mathbb{M} 37'55		retrograde	2696 Nov 01 17:08	4° \mathbb{M} 11'41	24°24'52
evening set	2695 Dec 05 06:08	24° \mathbb{M} 38'30		evening set	2696 Nov 13 00:43	10° \mathbb{M} 48'42	
asc. node	2695 Dec 07 02:40	22° \mathbb{M} 48'43		asc. node	2696 Nov 18 10:44	8° \mathbb{M} 32'54	
inferior conj	2695 Dec 10 15:10	18° \mathbb{M} 15'23	1°10'52	inferior conj	2696 Nov 22 23:43	3° \mathbb{M} 22'31	
minimum elong	2695 Dec 10 13:36	18° \mathbb{M} 20'47	1°10'14	min. Earth dist.	2696 Nov 23 03:08	3° \mathbb{M} 11'09	0.67610 AU
min. Earth dist.	2695 Dec 10 07:07	18° \mathbb{M} 43'09	0.67876 AU	inferior conj	2696 Nov 23 21:46	2° \mathbb{M} 08'42	0°18'54
morning rise	2695 Dec 15 20:58	12° \mathbb{M} 06'45		minimum elong	2696 Nov 23 21:18	2° \mathbb{M} 10'15	0°18'42
direct	2695 Dec 20 05:06	10° \mathbb{M} 22'52			2696 Nov 25 12:57	30° \mathbb{R} \mathbb{M}	
morning max el	2695 Dec 28 23:13	15° \mathbb{M} 29'37	21°28'25	morning rise	2696 Nov 29 07:54	26° \mathbb{M} 05'39	
	2696 Jan 09 14:27	0° \mathbb{M}		direct	2696 Dec 03 02:48	24° \mathbb{M} 43'30	
desc. node	2696 Jan 13 23:01	6° \mathbb{M} 12'29		morning max el	2696 Dec 10 20:55	29° \mathbb{M} 09'45	20°14'00
morning set	2696 Jan 29 11:58	29° \mathbb{M} 48'58			2696 Dec 11 16:20	0° \mathbb{M}	
	2696 Jan 29 14:45	0° \approx		desc. node	2696 Dec 30 20:04	26° \mathbb{M} 25'01	
max. Earth dist.	2696 Feb 05 08:36	10° \approx 53'52	1.41995 AU		2697 Jan 02 04:46	0° \mathbb{M}	
superior conj	2696 Feb 12 20:29	23° \approx 33'42	-2°05'32	morning set	2697 Jan 07 09:27	7° \mathbb{M} 58'18	
minimum elong	2696 Feb 12 21:31	23° \approx 38'13	2°05'31	max. Earth dist.	2697 Jan 17 16:52	24° \mathbb{M} 11'26	1.43688 AU
	2696 Feb 16 12:38	0° \mathbb{M}			2697 Jan 21 07:09	0° \approx	
evening rise	2696 Feb 23 22:05	13° \mathbb{M} 20'38		superior conj	2697 Jan 23 13:23	3° \approx 42'00	-2°00'52
asc. node	2696 Mar 04 01:57	29° \mathbb{M} 32'45		minimum elong	2697 Jan 23 09:04	3° \approx 24'14	2°00'41
	2696 Mar 04 08:40	0° \mathbb{Y}		evening rise	2697 Feb 05 07:13	25° \approx 18'30	
evening max el	2696 Mar 11 10:17	9° \mathbb{Y} 29'26	18°09'26		2697 Feb 08 00:03	0° \mathbb{M}	
retrograde	2696 Mar 18 04:53	12° \mathbb{Y} 55'23		asc. node	2697 Feb 18 23:01	17° \mathbb{M} 51'54	
evening set	2696 Mar 20 19:38	12° \mathbb{Y} 25'13		evening max el	2697 Feb 22 22:45	22° \mathbb{M} 42'01	18°09'46
inferior conj	2696 Mar 27 13:43	7° \mathbb{Y} 33'07	3°18'30	retrograde	2697 Mar 01 09:43	26° \mathbb{M} 05'52	
minimum elong	2696 Mar 27 16:24	7° \mathbb{Y} 26'51	3°18'04	evening set	2697 Mar 04 05:57	25° \mathbb{M} 24'58	
min. Earth dist.	2696 Mar 30 20:39	4° \mathbb{Y} 31'06	0.60524 AU	inferior conj	2697 Mar 10 11:20	20° \mathbb{M} 12'29	3°38'57
morning rise	2696 Apr 03 11:06	1° \mathbb{Y} 44'30		minimum elong	2697 Mar 10 12:07	20° \mathbb{M} 10'24	3°38'56
	2696 Apr 07 05:34	30° \mathbb{R} \mathbb{M}		min. Earth dist.	2697 Mar 13 06:07	17° \mathbb{M} 16'53	0.62624 AU
direct	2696 Apr 10 03:03	29° \mathbb{M} 35'50		morning rise	2697 Mar 16 17:07	14° \mathbb{M} 11'02	
desc. node	2696 Apr 10 22:11	29° \mathbb{M} 37'37		direct	2697 Mar 23 15:21	11° \mathbb{M} 35'05	
	2696 Apr 13 02:29	0° \mathbb{Y}		desc. node	2697 Mar 28 19:13	12° \mathbb{M} 50'44	
morning max el	2696 Apr 24 09:34	7° \mathbb{Y} 28'48	27°39'25	morning max el	2697 Apr 06 15:20	19° \mathbb{M} 31'34	27°49'30
	2696 May 11 11:13	0° \mathbb{M}			2697 Apr 15 13:28	0° \mathbb{Y}	
morning set	2696 May 26 12:59	27° \mathbb{M} 44'42			2697 May 04 09:06	0° \mathbb{M}	
	2696 May 27 14:58	0° \mathbb{M}		morning set	2697 May 10 14:02	12° \mathbb{M} 01'23	
asc. node	2696 May 31 01:15	7° \mathbb{M} 19'08		max. Earth dist.	2697 May 16 02:15	23° \mathbb{M} 31'00	1.32635 AU
max. Earth dist.	2696 Jun 01 18:32	11° \mathbb{M} 03'59	1.32191 AU	asc. node	2697 May 17 22:18	27° \mathbb{M} 28'20	
superior conj	2696 Jun 02 18:37	13° \mathbb{M} 16'02	0°28'24	superior conj	2697 May 18 03:44	27° \mathbb{M} 57'44	0°02'24
minimum elong	2696 Jun 02 17:22	13° \mathbb{M} 09'12	0°28'08	minimum elong	2697 May 18 03:37	27° \mathbb{M} 57'06	0°02'22
evening rise	2696 Jun 09 15:00	28° \mathbb{M} 10'28		behind sun begin	2697 May 17 22:28	27° \mathbb{M} 29'11	
	2696 Jun 10 11:44	0° \mathbb{M}		behind sun end	2697 May 18 08:46	28° \mathbb{M} 25'03	
	2696 Jun 27 08:32	0° Ω			2697 May 19 02:16	0° \mathbb{M}	
evening max el	2696 Jul 06 16:20	11° Ω 08'00	25°24'26	evening rise	2697 May 25 02:51	13° \mathbb{M} 01'34	
desc. node	2696 Jul 07 21:28	12° Ω 15'10			2697 Jun 02 16:49	0° \mathbb{M}	
				evening max el	2697 Jun 18 06:15	21° \mathbb{M} 44'50	23°52'56

desc. node	2697 Jun 24 18:29	26°☿40'37		desc. node	2698 Jun 11 15:28	8°☿33'44	
retrograde	2697 Jul 01 23:53	28°☿38'48		retrograde	2698 Jun 12 19:34	8°☿36'52	
evening set	2697 Jul 06 07:49	27°☿57'30		evening set	2698 Jun 15 17:43	8°☿17'57	
min. Earth dist.	2697 Jul 12 16:44	24°☿54'36	0.56221 AU	min. Earth dist.	2698 Jun 24 03:47	4°☿40'26	0.55119 AU
inferior conj	2697 Jul 15 01:06	23°☿28'45	-4°44'13	inferior conj	2698 Jun 25 01:24	4°☿09'57	-3°37'22
minimum elong	2697 Jul 14 19:56	23°☿36'40	4°43'31	minimum elong	2698 Jun 24 17:16	4°☿21'26	3°35'11
morning rise	2697 Jul 23 10:38	19°☿30'58		morning rise	2698 Jul 03 18:45	0°☿18'36	
direct	2697 Jul 26 04:27	19°☿11'43			2698 Jul 05 20:58	30°☿II	
morning max el	2697 Aug 05 04:38	23°☿50'17	19°55'41	direct	2698 Jul 06 19:26	29°☿II57'59	
	2697 Aug 10 11:47	0°☿			2698 Jul 07 17:43	0°☿	
asc. node	2697 Aug 13 21:33	5°☿09'57		morning max el	2698 Jul 18 10:53	5°☿23'26	21°18'06
morning set	2697 Aug 23 04:09	22°☿33'00		asc. node	2698 Jul 31 18:36	24°☿02'42	
	2697 Aug 26 19:55	0°☿			2698 Aug 03 21:49	0°☿	
				morning set	2698 Aug 07 12:24	7°☿18'21	
superior conj	2697 Aug 30 23:17	8°☿22'17	1°45'02	superior conj	2698 Aug 14 20:59	22°☿41'39	1°43'15
minimum elong	2697 Aug 30 23:43	8°☿24'27	1°45'01	minimum elong	2698 Aug 14 19:58	22°☿36'25	1°43'12
max. Earth dist.	2697 Sep 05 14:58	19°☿22'01	1.37045 AU		2698 Aug 18 10:49	0°☿	
evening rise	2697 Sep 09 10:32	26°☿24'59		max. Earth dist.	2698 Aug 19 01:39	1°☿14'13	1.35276 AU
	2697 Sep 11 10:43	0°☿		evening rise	2698 Aug 23 07:53	9°☿31'42	
desc. node	2697 Sep 20 17:51	15°☿31'02			2698 Sep 03 23:50	0°☿	
	2697 Sep 30 11:43	0°☿		desc. node	2698 Sep 07 14:51	5°☿43'02	
evening max el	2697 Oct 15 05:19	17°☿52'39	25°38'01		2698 Sep 26 04:53	0°☿	
retrograde	2697 Oct 27 11:00	24°☿53'08		evening max el	2698 Sep 27 17:34	1°☿31'21	26°37'21
evening set	2697 Nov 02 11:15	22°☿22'46		retrograde	2698 Oct 10 16:12	8°☿45'29	
min. Earth dist.	2697 Nov 06 19:56	17°☿36'10	0.67008 AU	evening set	2698 Oct 17 05:44	6°☿04'58	
inferior conj	2697 Nov 08 01:30	16°☿01'45	-0°37'12	min. Earth dist.	2698 Oct 21 07:14	1°☿54'37	0.66055 AU
minimum elong	2697 Nov 08 02:28	15°☿58'40	0°36'47		2698 Oct 22 21:40	30°☿☿	
asc. node	2697 Nov 09 20:47	13°☿47'07		inferior conj	2698 Oct 23 00:29	29°☿51'35	-1°35'56
morning rise	2697 Nov 13 17:59	10°☿06'57		minimum elong	2698 Oct 23 03:05	29°☿43'50	1°34'52
direct	2697 Nov 17 01:27	9°☿03'47		asc. node	2698 Oct 27 17:48	24°☿58'44	
morning max el	2697 Nov 24 02:27	13°☿00'16	19°13'36	morning rise	2698 Oct 29 01:03	24°☿07'46	
	2697 Dec 06 18:22	0°☿		direct	2698 Oct 31 23:10	23°☿19'59	
morning set	2697 Dec 17 11:15	16°☿29'35		morning max el	2698 Nov 07 14:17	26°☿57'30	18°29'05
desc. node	2697 Dec 17 17:07	16°☿52'23			2698 Nov 10 06:49	0°☿	
	2697 Dec 26 03:09	0°☿		morning set	2698 Nov 27 13:50	26°☿19'04	
max. Earth dist.	2697 Dec 31 07:59	8°☿10'13	1.44796 AU		2698 Nov 29 21:02	0°☿	
				desc. node	2698 Dec 04 14:10	7°☿30'27	
superior conj	2698 Jan 03 05:02	12°☿43'23	-1°37'16	superior conj	2698 Dec 13 07:04	21°☿13'59	-0°56'28
minimum elong	2698 Jan 02 20:17	12°☿08'38	1°36'28	minimum elong	2698 Dec 13 00:01	20°☿46'17	0°55'35
	2698 Jan 13 22:29	0°☿		max. Earth dist.	2698 Dec 14 02:37	22°☿30'44	1.45193 AU
evening rise	2698 Jan 17 19:04	6°☿20'28			2698 Dec 18 21:10	0°☿	
	2698 Feb 01 13:36	0°☿		evening rise	2698 Dec 29 07:41	16°☿26'18	
asc. node	2698 Feb 05 20:04	5°☿25'04			2699 Jan 06 21:45	0°☿	
evening max el	2698 Feb 06 10:58	6°☿04'10	18°28'43	greatest brilliancy	2699 Jan 07 21:40	1°☿33'29	-0.8m
retrograde	2698 Feb 12 23:39	9°☿38'52		evening max el	2699 Jan 20 20:38	19°☿31'53	19°05'18
evening set	2698 Feb 16 01:25	8°☿46'27		asc. node	2699 Jan 23 17:05	22°☿00'01	
inferior conj	2698 Feb 21 21:41	3°☿15'10	3°38'58	retrograde	2699 Jan 27 18:57	23°☿28'12	
minimum elong	2698 Feb 21 20:47	3°☿17'47	3°38'56	evening set	2699 Jan 31 03:05	22°☿23'23	
min. Earth dist.	2698 Feb 24 01:09	0°☿44'36	0.64455 AU	inferior conj	2699 Feb 05 17:15	16°☿35'35	3°23'49
	2698 Feb 24 17:01	30°☿☿		minimum elong	2699 Feb 05 15:14	16°☿41'56	3°23'30
morning rise	2698 Feb 27 15:35	27°☿06'34		min. Earth dist.	2699 Feb 07 05:23	14°☿41'01	0.65913 AU
direct	2698 Mar 06 11:13	24°☿16'48		morning rise	2699 Feb 11 03:05	10°☿23'18	
desc. node	2698 Mar 15 16:15	28°☿15'07		direct	2699 Feb 17 13:50	7°☿33'30	
	2698 Mar 17 18:16	0°☿		morning max el	2699 Mar 02 10:30	15°☿09'50	26°27'54
morning max el	2698 Mar 20 00:33	2°☿09'01	27°23'40	desc. node	2699 Mar 02 13:20	15°☿17'00	
	2698 Apr 09 19:04	0°☿			2699 Mar 14 14:54	0°☿	
morning set	2698 Apr 24 06:50	25°☿49'37		morning set	2699 Apr 02 13:59	0°☿	
	2698 Apr 26 09:19	0°☿		max. Earth dist.	2699 Apr 07 11:51	8°☿58'58	
max. Earth dist.	2698 Apr 29 02:10	5°☿30'31	1.33504 AU		2699 Apr 11 14:54	16°☿56'11	1.34830 AU
				superior conj	2699 Apr 16 07:12	26°☿22'12	-0°53'48
superior conj	2698 May 02 08:40	12°☿21'55	-0°25'25	minimum elong	2699 Apr 16 09:59	26°☿36'28	0°53'17
minimum elong	2698 May 02 09:58	12°☿28'44	0°25'09		2699 Apr 18 01:21	0°☿	
asc. node	2698 May 04 19:21	17°☿34'44		asc. node	2699 Apr 21 16:23	7°☿34'14	
evening rise	2698 May 09 14:06	27°☿45'58		evening rise	2699 Apr 23 22:49	12°☿17'24	
	2698 May 10 15:44	0°☿					
	2698 May 28 18:39	0°☿					
evening max el	2698 May 30 21:32	2°☿12'52	22°16'45				

	2699 May 03 04:46	0°♂		evening rise	2700 Apr 08 02:52	26°♂29'45	
evening max el	2699 May 12 21:36	13°♂03'26	20°49'33	asc. node	2700 Apr 08 13:24	27°♂22'44	
retrograde	2699 May 24 08:47	18°♂38'52			2700 Apr 09 20:52	0°♂	
evening set	2699 May 26 11:38	18°♂28'09		evening max el	2700 Apr 25 09:42	24°♂33'18	19°39'10
desc. node	2699 May 29 12:29	17°♂38'30		retrograde	2700 May 05 02:57	29°♂15'31	
inferior conj	2699 Jun 04 18:58	14°♂30'27	-1°49'26	evening set	2700 May 07 03:07	29°♂04'22	
minimum elong	2699 Jun 04 13:50	14°♂37'46	1°47'36	inferior conj	2700 May 15 20:23	25°♂01'21	0°09'33
min. Earth dist.	2699 Jun 05 16:02	14°♂00'27	0.54914 AU	minimum elong	2700 May 15 20:49	25°♂00'41	0°09'25
morning rise	2699 Jun 13 15:41	10°♂25'33		transit middle	2700 May 15 20:49	25°♂00'41	0°09'25
direct	2699 Jun 17 04:41	9°♂58'30		transit begin	2700 May 15 17:38	25°♂05'41	
morning max el	2699 Jun 30 07:04	16°♂15'47	22°55'47	transit end	2700 May 15 23:59	24°♂55'42	
	2699 Jul 11 03:16	0°♂		desc. node	2700 May 16 09:31	24°♂40'39	
asc. node	2699 Jul 18 15:38	13°♂23'35		min. Earth dist.	2700 May 18 06:05	23°♂30'57	0.55680 AU
morning set	2699 Jul 22 23:16	22°♂11'26		morning rise	2700 May 24 11:55	20°♂26'23	
	2699 Jul 26 15:17	0°♂		direct	2700 May 28 22:01	19°♂42'41	
				morning max el	2700 Jun 11 21:42	26°♂43'36	24°38'04
superior conj	2699 Jul 30 01:34	7°♂21'11	1°35'05		2700 Jun 15 01:23	0°♂	
minimum elong	2699 Jul 29 23:37	7°♂10'48	1°34'55		2700 Jul 04 00:16	0°♂	
max. Earth dist.	2699 Aug 01 21:05	13°♂18'02	1.33881 AU	asc. node	2700 Jul 05 12:41	3°♂04'58	
evening rise	2699 Aug 06 19:10	23°♂18'52		morning set	2700 Jul 07 11:05	7°♂07'01	
	2699 Aug 10 06:23	0°♂					
desc. node	2699 Aug 25 11:51	25°♂30'41		superior conj	2700 Jul 14 10:31	22°♂12'50	1°21'38
	2699 Aug 28 15:11	0°♂		minimum elong	2700 Jul 14 08:09	21°♂59'59	1°21'20
evening max el	2699 Sep 10 05:35	14°♂58'09	27°15'30	max. Earth dist.	2700 Jul 16 01:08	25°♂42'17	1.32898 AU
retrograde	2699 Sep 23 15:52	22°♂16'49			2700 Jul 18 01:13	0°♂	
evening set	2699 Sep 30 15:42	19°♂33'59		evening rise	2700 Jul 21 16:36	7°♂35'32	
min. Earth dist.	2699 Oct 04 10:50	15°♂59'09	0.64747 AU		2700 Aug 02 17:41	0°♂	
inferior conj	2699 Oct 06 16:25	13°♂32'36	-2°35'21	desc. node	2700 Aug 12 08:50	14°♂43'43	
minimum elong	2699 Oct 06 20:38	13°♂21'05	2°33'48	evening max el	2700 Aug 23 15:57	28°♂01'37	27°25'48
morning rise	2699 Oct 13 02:35	8°♂02'47			2700 Aug 25 20:55	0°♂	
asc. node	2699 Oct 14 14:50	7°♂33'09		retrograde	2700 Sep 06 09:13	5°♂18'23	
direct	2699 Oct 15 17:45	7°♂26'31		evening set	2700 Sep 13 13:58	2°♂44'08	
morning max el	2699 Oct 22 05:45	10°♂54'15	18°01'16		2700 Sep 16 20:41	30°♂♂	
	2699 Nov 04 08:59	0°♂		min. Earth dist.	2700 Sep 17 04:51	29°♂40'40	0.63103 AU
morning set	2699 Nov 08 21:31	7°♂34'13		inferior conj	2700 Sep 19 22:39	26°♂59'01	-3°32'21
desc. node	2699 Nov 21 11:11	28°♂14'36		minimum elong	2700 Sep 20 04:02	26°♂45'46	3°30'44
				morning rise	2700 Sep 26 19:28	21°♂46'23	
superior conj	2699 Nov 22 16:14	0°♂11'05	-0°08'13	direct	2700 Sep 29 06:23	21°♂18'02	
minimum elong	2699 Nov 22 15:13	0°♂07'02	0°08'05	asc. node	2700 Oct 01 11:54	21°♂41'58	
behind sun begin	2699 Nov 22 06:00	29°♂30'05		morning max el	2700 Oct 05 22:01	24°♂44'04	17°51'01
behind sun end	2699 Nov 23 00:27	0°♂43'56			2700 Oct 10 05:25	0°♂	
	2699 Nov 22 13:28	0°♂		morning set	2700 Oct 22 05:37	19°♂59'41	
max. Earth dist.	2699 Nov 26 21:17	6°♂52'41	1.44844 AU		2700 Oct 27 23:10	0°♂	
evening rise	2699 Dec 09 00:16	25°♂46'26					
	2699 Dec 11 18:08	0°♂		superior conj	2700 Nov 03 00:37	10°♂17'26	0°35'55
greatest brilliancy	2699 Dec 23 01:31	17°♂08'51	-0.6m	minimum elong	2700 Nov 03 04:02	10°♂31'42	0°35'27
	2700 Jan 01 09:16	0°♂		desc. node	2700 Nov 08 08:11	19°♂01'33	
evening max el	2700 Jan 04 01:56	3°♂02'10	19°57'59	max. Earth dist.	2700 Nov 09 13:45	21°♂00'51	1.43808 AU
asc. node	2700 Jan 10 14:05	7°♂22'04			2700 Nov 15 05:42	0°♂	
retrograde	2700 Jan 11 16:37	7°♂28'48		evening rise	2700 Nov 18 08:56	4°♂52'28	
evening set	2700 Jan 15 08:36	6°♂10'19			2700 Dec 05 04:29	0°♂	
inferior conj	2700 Jan 20 19:03	0°♂08'37	2°57'11	evening max el	2700 Dec 18 01:51	16°♂33'33	21°04'02
minimum elong	2700 Jan 20 16:32	0°♂17'03	2°56'33	retrograde	2700 Dec 26 14:21	21°♂36'29	
	2700 Jan 20 21:37	30°♂♂		asc. node	2700 Dec 28 11:08	21°♂17'14	
min. Earth dist.	2700 Jan 21 17:09	28°♂54'42	0.66960 AU	evening set	2700 Dec 30 16:00	20°♂02'52	
morning rise	2700 Jan 26 00:14	23°♂55'07		inferior conj	2701 Jan 05 00:40	13°♂50'13	2°21'29
direct	2700 Jan 31 22:15	21°♂16'34		minimum elong	2701 Jan 04 22:09	13°♂58'51	2°20'40
morning max el	2700 Feb 12 19:19	28°♂22'03	25°11'19	min. Earth dist.	2701 Jan 05 10:10	13°♂17'29	0.67609 AU
	2700 Feb 14 08:50	0°♂		morning rise	2701 Jan 10 04:07	7°♂37'19	
desc. node	2700 Feb 17 10:24	3°♂28'31		direct	2701 Jan 15 11:32	5°♂17'44	
	2700 Mar 08 08:56	0°♂		morning max el	2701 Jan 26 03:44	11°♂39'21	23°44'09
morning set	2700 Mar 21 00:18	21°♂16'00		desc. node	2701 Feb 04 07:26	22°♂29'04	
max. Earth dist.	2700 Mar 24 16:12	27°♂58'22	1.36598 AU		2701 Feb 09 19:28	0°♂	
	2700 Mar 25 18:08	0°♂			2701 Mar 01 04:14	0°♂	
				morning set	2701 Mar 02 14:04	2°♂23'21	
superior conj	2700 Mar 30 20:30	9°♂51'09	-1°21'03	max. Earth dist.	2701 Mar 06 11:24	9°♂08'26	1.38688 AU
minimum elong	2700 Mar 31 00:31	10°♂11'02	1°20'27				

superior conj	2701 Mar 13 20:50	22° K 38'28	-1°44'41		2702 Feb 21 13:55	0° K	
minimum elong	2701 Mar 14 01:15	22° K 59'19	1°44'13				
	2701 Mar 17 17:18	0° Y		superior conj	2702 Feb 24 03:32	4° K 32'42	-2°01'07
evening rise	2701 Mar 22 23:34	10° Y 15'07		minimum elong	2702 Feb 24 06:34	4° K 46'17	2°00'59
asc. node	2701 Mar 26 10:26	16° Y 54'47		evening rise	2702 Mar 06 09:40	23° K 25'53	
	2701 Apr 02 23:41	0° B			2702 Mar 09 22:24	0° Y	
evening max el	2701 Apr 08 08:35	6° B 41'47	18°48'26	asc. node	2702 Mar 13 07:30	6° Y 04'40	
retrograde	2701 Apr 16 13:19	10° B 41'36		evening max el	2702 Mar 22 15:16	19° Y 21'54	18°17'52
evening set	2701 Apr 18 18:33	10° B 25'11		retrograde	2702 Mar 29 19:00	22° Y 55'49	
inferior conj	2701 Apr 26 16:12	6° B 05'20	1°48'38	evening set	2702 Apr 01 06:23	22° Y 31'12	
minimum elong	2701 Apr 26 19:48	5° B 58'45	1°47'30	inferior conj	2702 Apr 08 09:29	17° Y 50'39	2°54'48
min. Earth dist.	2701 Apr 29 22:31	3° B 43'25	0.57246 AU	minimum elong	2702 Apr 08 13:03	17° Y 43'02	2°54'01
desc. node	2701 May 03 06:35	1° B 38'45		min. Earth dist.	2702 Apr 11 19:42	14° Y 56'19	0.59282 AU
morning rise	2701 May 04 17:53	0° B 56'01		morning rise	2702 Apr 15 17:08	12° Y 13'17	
	2701 May 07 15:01	30° K Y		desc. node	2702 Apr 20 03:38	10° Y 34'42	
direct	2701 May 10 04:52	29° Y 43'41		direct	2702 Apr 22 00:46	10° Y 25'08	
	2701 May 12 19:06	0° B		morning max el	2702 May 06 09:25	18° Y 11'43	27°16'43
morning max el	2701 May 24 12:53	7° B 13'14	26°10'04		2702 May 16 06:27	0° B	
	2701 Jun 10 10:26	0° II			2702 Jun 02 23:58	0° II	
morning set	2701 Jun 21 22:13	21° II 59'17		morning set	2702 Jun 06 06:59	6° II 42'57	
asc. node	2701 Jun 22 09:43	23° II 00'09		asc. node	2702 Jun 09 06:46	13° II 04'14	
	2701 Jun 25 15:37	0° E					
superior conj	2701 Jun 28 21:46	7° E 09'02	1°03'47	superior conj	2702 Jun 13 09:32	22° II 04'03	0°42'14
minimum elong	2701 Jun 28 19:30	6° E 56'31	1°03'24	minimum elong	2702 Jun 13 07:48	21° II 54'28	0°41'52
max. Earth dist.	2701 Jun 29 11:05	8° E 22'17	1.32317 AU	max. Earth dist.	2702 Jun 12 23:16	21° II 07'27	1.32126 AU
evening rise	2701 Jul 05 21:01	22° E 11'20			2702 Jun 17 00:11	0° E	
	2701 Jul 09 17:22	0° O		evening rise	2702 Jun 20 05:57	6° E 58'20	
	2701 Jul 27 19:39	0° M			2702 Jul 02 07:04	0° O	
desc. node	2701 Jul 30 05:51	3° M 07'38		desc. node	2702 Jul 17 02:53	20° O 22'00	
evening max el	2701 Aug 05 21:57	10° M 27'58	27°03'42	evening max el	2702 Jul 18 21:00	22° O 17'00	26°08'41
retrograde	2701 Aug 19 19:11	17° M 40'58		retrograde	2702 Aug 01 20:35	29° O 17'03	
evening set	2701 Aug 26 20:25	15° M 28'03		evening set	2702 Aug 08 06:14	27° O 37'16	
min. Earth dist.	2701 Aug 30 12:14	12° M 46'22	0.61174 AU	min. Earth dist.	2702 Aug 12 09:38	25° O 01'27	0.59106 AU
inferior conj	2701 Sep 02 15:57	10° M 02'30	-4°21'51	inferior conj	2702 Aug 15 16:39	22° O 32'52	-4°55'26
minimum elong	2701 Sep 02 21:16	9° M 50'55	4°20'45	minimum elong	2702 Aug 15 19:41	22° O 27'07	4°55'09
morning rise	2701 Sep 09 23:51	5° M 10'31		morning rise	2702 Aug 23 11:19	18° O 03'59	
direct	2701 Sep 12 09:25	4° M 47'08		direct	2702 Aug 25 22:18	17° O 43'27	
asc. node	2701 Sep 18 08:57	7° M 18'21		morning max el	2702 Sep 02 20:38	21° O 31'59	18°28'02
morning max el	2701 Sep 19 12:02	8° M 19'35	17°59'33	asc. node	2702 Sep 05 06:01	24° O 07'43	
	2701 Oct 03 12:57	0° A			2702 Sep 09 10:16	0° M	
morning set	2701 Oct 05 07:49	3° A 17'11		morning set	2702 Sep 18 22:48	17° M 10'58	
					2702 Sep 25 15:28	0° A	
superior conj	2701 Oct 15 12:02	21° A 43'24	1°09'28	superior conj	2702 Sep 27 22:27	4° A 16'59	1°31'19
minimum elong	2701 Oct 15 16:26	22° A 02'43	1°08'58	minimum elong	2702 Sep 28 01:42	4° A 32'04	1°31'02
	2701 Oct 20 07:09	0° M		max. Earth dist.	2702 Oct 05 08:52	17° A 36'43	1.40241 AU
max. Earth dist.	2701 Oct 23 02:01	4° M 40'13	1.42206 AU	evening rise	2702 Oct 09 16:56	24° A 58'19	
desc. node	2701 Oct 26 05:12	9° M 48'25			2702 Oct 12 18:29	0° M	
evening rise	2701 Oct 29 02:34	14° M 26'49		desc. node	2702 Oct 13 02:13	0° M 31'14	
	2701 Nov 08 05:05	0° J			2702 Nov 02 00:14	0° J	
	2701 Nov 30 17:49	0° B		evening max el	2702 Nov 13 10:44	13° J 41'46	23°39'22
evening max el	2701 Nov 30 20:24	0° B 06'33	22°19'31	retrograde	2702 Nov 24 03:39	20° J 00'59	
retrograde	2701 Dec 10 10:29	5° B 48'35		evening set	2702 Nov 29 05:46	17° J 54'13	
evening set	2701 Dec 14 23:36	3° B 58'34		asc. node	2702 Dec 02 05:15	14° J 43'37	
asc. node	2701 Dec 15 08:11	3° B 40'18		min. Earth dist.	2702 Dec 04 02:49	12° J 13'13	0.67808 AU
	2701 Dec 18 14:29	30° K J		inferior conj	2702 Dec 04 15:28	11° J 30'02	0°49'23
inferior conj	2701 Dec 20 08:05	27° J 38'14	1°38'27	minimum elong	2702 Dec 04 14:20	11° J 33'55	0°48'55
minimum elong	2701 Dec 20 06:03	27° J 45'17	1°37'41	morning rise	2702 Dec 09 22:54	5° J 23'42	
min. Earth dist.	2701 Dec 20 06:10	27° J 44'52	0.67884 AU	direct	2702 Dec 14 01:09	3° J 49'32	
morning rise	2701 Dec 25 12:23	21° J 27'42		morning max el	2702 Dec 22 08:22	8° J 37'43	20°55'14
direct	2701 Dec 30 04:49	19° J 30'41			2703 Jan 07 15:19	0° B	
morning max el	2702 Jan 08 14:58	25° J 03'35	22°16'13	desc. node	2703 Jan 09 01:29	2° B 05'50	
	2702 Jan 13 01:13	0° B		morning set	2703 Jan 21 06:20	20° B 39'46	
desc. node	2702 Jan 22 04:27	12° B 04'56			2703 Jan 27 03:49	0° A	
	2702 Feb 03 07:20	0° A		max. Earth dist.	2703 Jan 29 12:27	3° A 48'53	1.42780 AU
morning set	2702 Feb 10 23:42	12° A 08'35					
max. Earth dist.	2702 Feb 16 08:38	21° A 01'30	1.40847 AU	superior conj	2703 Feb 05 11:18	15° A 21'09	-2°05'40

minimum elong	2703 Feb 05 10:17	15° \approx 16'50	2°05'39	greatest brilliancy	2703 Dec 18 17:43	10° \approx 01'19	-0.7m
	2703 Feb 13 21:57	0° \mathbb{H}		desc. node	2703 Dec 26 22:31	22° \approx 25'03	
evening rise	2703 Feb 17 05:10	5° \mathbb{H} 52'35		morning set	2703 Dec 31 02:22	28° \approx 49'00	
asc. node	2703 Feb 28 04:33	24° \mathbb{H} 44'42			2703 Dec 31 20:44	0° \mathbb{Z}	
	2703 Mar 03 22:39	0° \mathbb{Y}		max. Earth dist.	2704 Jan 11 23:25	17° \approx 24'10	1.44241 AU
evening max el	2703 Mar 06 02:25	2° \mathbb{Y} 24'27	18°07'10				
retrograde	2703 Mar 12 16:43	5° \mathbb{Y} 48'12		superior conj	2704 Jan 16 16:56	24° \mathbb{Z} 59'01	-1°53'16
evening set	2703 Mar 15 09:43	5° \mathbb{Y} 13'41		minimum elong	2704 Jan 16 10:16	24° \mathbb{Z} 32'05	1°52'49
inferior conj	2703 Mar 21 21:55	0° \mathbb{Y} 12'38	3°30'03		2704 Jan 19 18:58	0° \approx	
minimum elong	2703 Mar 21 23:49	0° \mathbb{Y} 07'58	3°29'52	evening rise	2704 Jan 30 05:42	17° \approx 27'12	
	2703 Mar 22 03:02	30° \mathbb{H}			2704 Feb 06 15:36	0° \mathbb{H}	
min. Earth dist.	2703 Mar 25 00:19	27° \mathbb{H} 10'29	0.61436 AU	asc. node	2704 Feb 15 01:35	12° \mathbb{H} 45'40	
morning rise	2703 Mar 28 12:13	24° \mathbb{H} 17'17		evening max el	2704 Feb 17 15:05	15° \mathbb{H} 41'41	18°15'35
direct	2703 Apr 04 07:49	21° \mathbb{H} 55'42		retrograde	2704 Feb 24 01:52	19° \mathbb{H} 08'48	
desc. node	2703 Apr 07 00:40	22° \mathbb{H} 16'21		evening set	2704 Feb 27 00:18	18° \mathbb{H} 23'16	
morning max el	2703 Apr 18 12:24	29° \mathbb{H} 51'36	27°48'22	inferior conj	2704 Mar 04 01:26	13° \mathbb{H} 02'48	3°41'05
	2703 Apr 18 15:47	0° \mathbb{Y}		minimum elong	2704 Mar 04 01:27	13° \mathbb{H} 02'46	3°41'06
	2703 May 10 06:08	0° \mathbb{Z}		min. Earth dist.	2704 Mar 06 14:00	10° \mathbb{H} 15'38	0.63445 AU
morning set	2703 May 21 11:32	21° \mathbb{Z} 11'56		morning rise	2704 Mar 10 01:40	6° \mathbb{H} 57'35	
	2703 May 25 16:04	0° \mathbb{H}		direct	2704 Mar 16 23:46	4° \mathbb{H} 13'37	
asc. node	2703 May 27 03:50	3° \mathbb{H} 12'55		desc. node	2704 Mar 23 21:42	6° \mathbb{H} 29'20	
max. Earth dist.	2703 May 27 09:45	3° \mathbb{H} 45'01	1.32324 AU	morning max el	2704 Mar 30 19:59	12° \mathbb{H} 10'22	27°42'33
					2704 Apr 14 00:30	0° \mathbb{Y}	
superior conj	2703 May 28 20:08	6° \mathbb{H} 52'28	0°17'38		2704 May 01 16:40	0° \mathbb{Z}	
minimum elong	2703 May 28 19:20	6° \mathbb{H} 48'03	0°17'27	morning set	2704 May 04 09:25	5° \mathbb{Z} 17'37	
evening rise	2703 Jun 04 17:16	21° \mathbb{H} 49'49		max. Earth dist.	2704 May 09 14:22	16° \mathbb{Z} 00'23	1.32943 AU
	2703 Jun 08 16:05	0° \mathbb{Z}					
	2703 Jun 27 15:20	0° \mathbb{Z}		superior conj	2704 May 12 03:42	21° \mathbb{Z} 27'25	-0°09'16
evening max el	2703 Jun 30 13:06	3° \mathbb{Z} 01'36	24°47'05	minimum elong	2704 May 12 04:09	21° \mathbb{Z} 29'51	0°09'11
desc. node	2703 Jul 03 23:55	5° \mathbb{Z} 59'21		behind sun begin	2704 May 11 23:47	21° \mathbb{Z} 06'24	
retrograde	2703 Jul 14 11:48	10° \mathbb{Z} 05'31		behind sun end	2704 May 12 08:31	21° \mathbb{Z} 53'19	
evening set	2703 Jul 19 16:16	9° \mathbb{Z} 04'29		asc. node	2704 May 13 00:51	23° \mathbb{Z} 21'18	
min. Earth dist.	2703 Jul 25 00:23	6° \mathbb{Z} 15'41	0.57151 AU		2704 May 16 02:38	0° \mathbb{H}	
inferior conj	2703 Jul 27 21:52	4° \mathbb{Z} 21'59	-5°00'19	evening rise	2704 May 19 05:03	6° \mathbb{H} 38'26	
minimum elong	2703 Jul 27 19:58	4° \mathbb{Z} 25'07	5°00'13		2704 May 31 14:25	0° \mathbb{Z}	
morning rise	2703 Aug 05 02:19	0° \mathbb{Z} 14'52		evening max el	2704 Jun 11 02:38	13° \mathbb{Z} 30'39	23°11'47
	2703 Aug 06 11:31	30° \mathbb{Z}		desc. node	2704 Jun 19 20:57	19° \mathbb{Z} 23'49	
direct	2703 Aug 07 16:54	29° \mathbb{Z} 55'41		retrograde	2704 Jun 24 14:23	20° \mathbb{Z} 14'41	
	2703 Aug 08 21:53	0° \mathbb{Z}		evening set	2704 Jun 28 06:34	19° \mathbb{Z} 45'07	
morning max el	2703 Aug 16 20:42	4° \mathbb{Z} 12'27	19°17'34	min. Earth dist.	2704 Jul 05 12:13	16° \mathbb{Z} 28'51	0.55649 AU
asc. node	2703 Aug 23 03:03	11° \mathbb{Z} 55'21		inferior conj	2704 Jul 07 07:19	15° \mathbb{Z} 25'46	-4°21'58
	2703 Sep 02 04:22	0° \mathbb{H}		minimum elong	2704 Jul 07 00:15	15° \mathbb{Z} 36'09	4°20'36
morning set	2703 Sep 02 22:39	1° \mathbb{H} 30'49		morning rise	2704 Jul 15 20:24	11° \mathbb{Z} 32'26	
				direct	2704 Jul 18 16:32	11° \mathbb{Z} 13'02	
superior conj	2703 Sep 11 02:17	17° \mathbb{H} 42'34	1°42'37	morning max el	2704 Jul 29 09:38	16° \mathbb{Z} 11'00	20°28'25
minimum elong	2703 Sep 11 03:44	17° \mathbb{H} 49'36	1°42'33		2704 Aug 08 17:45	0° \mathbb{Z}	
max. Earth dist.	2703 Sep 17 12:38	29° \mathbb{H} 51'23	1.38174 AU	asc. node	2704 Aug 09 00:05	0° \mathbb{Z} 27'11	
	2703 Sep 17 14:32	0° \mathbb{Z}		morning set	2704 Aug 17 04:28	16° \mathbb{Z} 08'05	
evening rise	2703 Sep 21 07:12	6° \mathbb{Z} 36'32			2704 Aug 23 21:57	0° \mathbb{H}	
desc. node	2703 Sep 29 23:15	21° \mathbb{Z} 06'19					
	2703 Oct 05 17:15	0° \mathbb{H}		superior conj	2704 Aug 24 18:33	1° \mathbb{H} 44'54	1°45'08
evening max el	2703 Oct 26 23:03	27° \mathbb{H} 20'46	24°57'07	minimum elong	2704 Aug 24 18:18	1° \mathbb{H} 43'43	1°45'07
	2703 Oct 29 20:58	0° \mathbb{Z}		max. Earth dist.	2704 Aug 29 19:06	11° \mathbb{H} 43'18	1.36250 AU
retrograde	2703 Nov 07 16:50	4° \mathbb{Z} 09'49		evening rise	2704 Sep 02 18:28	19° \mathbb{H} 13'59	
evening set	2703 Nov 13 08:52	1° \mathbb{Z} 47'19			2704 Sep 08 19:55	0° \mathbb{Z}	
	2703 Nov 15 04:35	30° \mathbb{H}		desc. node	2704 Sep 15 20:16	11° \mathbb{Z} 28'08	
min. Earth dist.	2703 Nov 17 21:48	26° \mathbb{H} 40'17	0.67394 AU		2704 Sep 28 19:39	0° \mathbb{H}	
inferior conj	2703 Nov 18 21:05	25° \mathbb{H} 23'37	-0°04'28	evening max el	2704 Oct 08 11:14	11° \mathbb{H} 01'24	26°05'29
minimum elong	2703 Nov 18 21:12	25° \mathbb{H} 23'16	0°04'25	retrograde	2704 Oct 21 01:07	18° \mathbb{H} 09'17	
transit middle	2703 Nov 18 21:12	25° \mathbb{H} 23'16	0°04'25	evening set	2704 Oct 27 07:04	15° \mathbb{H} 34'09	
transit begin	2703 Nov 18 18:32	25° \mathbb{H} 32'02		min. Earth dist.	2704 Oct 31 12:41	11° \mathbb{H} 02'35	0.66639 AU
transit end	2703 Nov 18 23:51	25° \mathbb{H} 14'30		inferior conj	2704 Nov 01 23:03	9° \mathbb{H} 15'38	-1°01'52
asc. node	2703 Nov 19 02:17	25° \mathbb{H} 06'31		minimum elong	2704 Nov 02 00:41	9° \mathbb{H} 10'32	1°01'10
morning rise	2703 Nov 24 09:41	19° \mathbb{H} 23'43		asc. node	2704 Nov 04 23:18	5° \mathbb{H} 44'39	
direct	2703 Nov 27 23:23	18° \mathbb{H} 10'13		morning rise	2704 Nov 07 18:44	3° \mathbb{H} 24'52	
morning max el	2703 Dec 05 09:32	22° \mathbb{H} 22'53	19°46'25	direct	2704 Nov 10 21:54	2° \mathbb{H} 28'43	
	2703 Dec 11 17:24	0° \mathbb{Z}		morning max el	2704 Nov 17 17:55	6° \mathbb{H} 16'13	18°52'37

	2704 Dec 04 13:30	0°♊		asc. node	2705 Oct 22 20:20	17°♊27'51	
morning set	2704 Dec 09 13:09	7°♊49'27		direct	2705 Oct 25 18:43	16°♊40'50	
desc. node	2704 Dec 12 19:34	12°♊57'19		morning max el	2705 Nov 01 07:32	20°♊13'01	18°15'09
	2704 Dec 23 16:19	0°♋			2705 Nov 08 19:04	0°♋	
max. Earth dist.	2704 Dec 24 16:03	1°♋33'15	1.45055 AU	morning set	2705 Nov 20 04:21	18°♋16'13	
					2705 Nov 27 10:08	0°♌	
superior conj	2704 Dec 26 00:45	3°♋41'51	-1°21'40	desc. node	2705 Nov 29 16:35	3°♌37'57	
minimum elong	2704 Dec 25 15:51	3°♋06'48	1°20'42				
evening rise	2705 Jan 10 07:41	28°♋04'54		superior conj	2705 Dec 05 03:03	12°♌15'33	-0°36'09
	2705 Jan 11 12:07	0°♍		minimum elong	2705 Dec 04 22:24	11°♌57'15	0°35'32
evening max el	2705 Jan 31 02:35	29°♍07'37	18°42'14	max. Earth dist.	2705 Dec 07 11:29	15°♌57'48	1.45134 AU
asc. node	2705 Jan 31 22:36	29°♍56'18			2705 Dec 16 10:45	0°♎	
	2705 Feb 01 00:13	0°♏		evening rise	2705 Dec 21 10:51	7°♎48'35	
retrograde	2705 Feb 06 18:22	2°♏49'57		greatest brilliancy	2706 Jan 02 03:48	25°♎57'28	-0.7m
evening set	2705 Feb 09 22:45	1°♏52'23			2706 Jan 04 20:16	0°♏	
	2705 Feb 12 07:36	30°♏		evening max el	2706 Jan 14 10:39	12°♏36'53	19°25'54
inferior conj	2705 Feb 15 16:07	26°♏14'03	3°34'08	asc. node	2706 Jan 18 19:38	16°♏02'10	
minimum elong	2705 Feb 15 14:41	26°♏18'25	3°33'59	retrograde	2706 Jan 21 14:57	16°♏44'45	
min. Earth dist.	2705 Feb 17 13:03	23°♏57'45	0.65130 AU	evening set	2706 Jan 25 02:20	15°♏34'06	
morning rise	2705 Feb 21 06:11	20°♏03'45		inferior conj	2706 Jan 30 14:39	9°♏40'02	3°13'45
direct	2705 Feb 27 22:50	17°♏12'07		minimum elong	2706 Jan 30 12:21	9°♏47'29	3°13'18
desc. node	2705 Mar 10 18:44	22°♏39'20		min. Earth dist.	2706 Jan 31 20:34	8°♏02'45	0.66412 AU
morning max el	2705 Mar 13 05:34	24°♏58'54	27°03'01	morning rise	2706 Feb 04 22:09	3°♏27'16	
	2705 Mar 17 19:16	0°♐		direct	2706 Feb 11 03:53	0°♏41'15	
	2705 Apr 07 11:21	0°♑		morning max el	2706 Feb 23 15:03	8°♏05'21	25°57'19
morning set	2705 Apr 17 21:42	18°♑50'54		desc. node	2706 Feb 25 15:47	10°♏13'31	
max. Earth dist.	2705 Apr 22 09:37	27°♑44'56	1.34014 AU		2706 Mar 12 18:23	0°♒	
	2705 Apr 23 12:07	0°♓			2706 Mar 30 22:38	0°♑	
				morning set	2706 Mar 31 20:18	1°♑39'29	
superior conj	2705 Apr 26 06:15	5°♓42'47	-0°37'29	max. Earth dist.	2706 Apr 04 17:29	8°♑59'08	1.35543 AU
minimum elong	2705 Apr 26 08:10	5°♓52'51	0°37'05				
asc. node	2705 Apr 29 21:53	13°♓25'32		superior conj	2706 Apr 10 01:14	19°♑30'46	-1°05'38
evening rise	2705 May 03 15:28	21°♓18'18		minimum elong	2706 Apr 10 04:36	19°♑47'46	1°05'02
	2705 May 07 22:03	0°♔			2706 Apr 15 03:58	0°♓	
evening max el	2705 May 23 21:06	24°♔05'39	21°37'57	asc. node	2706 Apr 16 18:55	3°♓20'58	
	2705 Jun 03 04:32	0°♕		evening rise	2706 Apr 17 22:31	5°♓42'34	
retrograde	2705 Jun 05 05:36	0°♕09'50			2706 May 01 14:59	0°♔	
desc. node	2705 Jun 06 17:56	0°♕04'36		evening max el	2706 May 06 02:08	5°♔11'29	20°17'09
	2705 Jun 07 07:35	30°♔		retrograde	2706 May 16 19:12	10°♔23'43	
evening set	2705 Jun 07 17:25	29°♔55'49		evening set	2706 May 18 19:35	10°♔13'26	
inferior conj	2705 Jun 17 03:04	25°♔54'31	-2°55'13	desc. node	2706 May 24 14:57	8°♔06'36	
minimum elong	2705 Jun 16 19:31	26°♔05'04	2°52'50	inferior conj	2706 May 27 22:09	6°♔15'00	-0°58'07
min. Earth dist.	2705 Jun 16 23:37	25°♔59'20	0.54920 AU	minimum elong	2706 May 27 19:25	6°♔19'01	0°57'06
morning rise	2705 Jun 25 22:36	21°♔59'45		min. Earth dist.	2706 May 29 12:09	5°♔19'10	0.55134 AU
direct	2705 Jun 29 03:52	21°♔37'04		morning rise	2706 Jun 05 17:55	1°♔59'13	
morning max el	2705 Jul 11 11:03	27°♔24'47	21°58'11	direct	2706 Jun 09 15:05	1°♔26'37	
	2705 Jul 14 00:02	0°♕		morning max el	2706 Jun 23 04:03	8°♔03'11	23°39'38
asc. node	2705 Jul 26 21:07	19°♕32'39			2706 Jul 09 00:17	0°♕	
	2705 Aug 01 03:05	0°♌		asc. node	2706 Jul 13 18:11	9°♕03'08	
morning set	2705 Aug 01 14:02	0°♌56'52		morning set	2706 Jul 17 01:32	15°♕51'52	
					2706 Jul 23 15:19	0°♍	
superior conj	2705 Aug 08 19:28	16°♌13'10	1°40'29	superior conj	2706 Jul 24 02:12	0°♍58'38	1°29'57
minimum elong	2705 Aug 08 18:00	16°♌05'25	1°40'24	minimum elong	2706 Jul 24 00:01	0°♍46'52	1°29'44
max. Earth dist.	2705 Aug 12 09:29	23°♌38'46	1.34639 AU	max. Earth dist.	2706 Jul 26 09:05	5°♍52'22	1.33414 AU
	2705 Aug 15 13:37	0°♎		evening rise	2706 Jul 31 14:17	16°♍39'47	
evening rise	2705 Aug 16 22:15	2°♎38'56			2706 Aug 07 14:11	0°♎	
	2705 Sep 01 17:33	0°♏		desc. node	2706 Aug 20 14:16	21°♎04'54	
desc. node	2705 Sep 02 17:17	1°♏30'24			2706 Aug 27 06:22	0°♏	
evening max el	2705 Sep 20 23:44	24°♏36'38	26°56'42	evening max el	2706 Sep 03 11:21	7°♏55'11	27°23'37
	2705 Sep 27 22:10	0°♐		retrograde	2706 Sep 17 00:40	15°♏13'00	
retrograde	2705 Oct 04 03:51	1°♐52'50		evening set	2706 Sep 24 03:38	12°♏32'14	
	2705 Oct 09 19:33	30°♐		min. Earth dist.	2706 Sep 27 20:34	9°♏11'47	0.64088 AU
evening set	2705 Oct 10 22:12	29°♐10'32		inferior conj	2706 Sep 30 07:30	6°♏37'38	-3°00'04
min. Earth dist.	2705 Oct 14 20:59	25°♐15'22	0.65540 AU	minimum elong	2706 Sep 30 12:18	6°♏25'04	2°58'26
inferior conj	2705 Oct 16 19:19	23°♐01'54	-2°01'12	morning rise	2706 Oct 06 22:06	1°♐14'51	
minimum elong	2705 Oct 16 22:37	22°♐52'23	1°59'54	direct	2706 Oct 09 11:14	0°♐42'16	
morning rise	2705 Oct 22 23:46	17°♐23'25					

asc. node	2706 Oct 09 17:23	0°♌42'36		direct	2707 Sep 22 20:09	14°♏25'28	
morning max el	2706 Oct 15 23:45	4°♌07'55	17°54'47	asc. node	2707 Sep 26 14:27	15°♏30'08	
morning set	2706 Nov 01 23:14	0°♌03'57		morning max el	2707 Sep 29 15:33	17°♏53'05	17°52'22
	2706 Nov 01 22:19	0°♌			2707 Oct 08 08:02	0°♌	
				morning set	2707 Oct 15 15:44	12°♌53'16	
superior conj	2706 Nov 14 20:54	21°♌38'58	0°11'33		2707 Oct 25 08:18	0°♌	
minimum elong	2706 Nov 14 22:12	21°♌44'15	0°11'22				
behind sun begin	2706 Nov 14 14:58	21°♌14'53		superior conj	2707 Oct 26 17:00	2°♌19'58	0°51'35
behind sun end	2706 Nov 15 05:25	22°♌13'34		minimum elong	2707 Oct 26 21:12	2°♌37'52	0°51'02
desc. node	2706 Nov 16 13:36	24°♌23'47		max. Earth dist.	2707 Nov 02 20:37	14°♌14'16	1.43179 AU
	2706 Nov 20 01:33	0°♌		desc. node	2707 Nov 03 10:36	15°♌11'02	
max. Earth dist.	2706 Nov 20 06:04	0°♌17'56	1.44480 AU	evening rise	2707 Nov 10 08:38	26°♌10'40	
evening rise	2706 Nov 30 22:14	16°♌58'14			2707 Nov 12 19:49	0°♌	
	2706 Dec 09 11:34	0°♌			2707 Dec 03 10:29	0°♌	
evening max el	2706 Dec 28 13:42	26°♌07'24	20°24'34	evening max el	2707 Dec 11 11:07	9°♌38'34	21°35'15
	2707 Jan 02 10:52	0°♌		retrograde	2707 Dec 20 10:24	14°♌58'43	
retrograde	2707 Jan 05 13:01	0°♌49'01		asc. node	2707 Dec 23 13:43	14°♌04'43	
asc. node	2707 Jan 05 16:40	0°♌48'53		evening set	2707 Dec 24 16:37	13°♌18'17	
	2707 Jan 08 10:59	30°♌		inferior conj	2707 Dec 30 01:00	7°♌01'42	2°04'03
evening set	2707 Jan 09 08:55	29°♌24'05		minimum elong	2707 Dec 29 22:39	7°♌09'52	2°03'14
inferior conj	2707 Jan 14 18:22	23°♌17'03	2°43'02	min. Earth dist.	2707 Dec 30 05:32	6°♌46'01	0.67763 AU
minimum elong	2707 Jan 14 15:47	23°♌25'49	2°42'18	morning rise	2708 Jan 04 04:30	0°♌49'21	
min. Earth dist.	2707 Jan 15 10:50	22°♌21'06	0.67282 AU		2708 Jan 05 05:42	30°♌	
morning rise	2707 Jan 19 22:29	17°♌03'37		direct	2708 Jan 09 05:24	28°♌39'13	
direct	2707 Jan 25 14:18	14°♌32'47			2708 Jan 13 14:58	0°♌	
morning max el	2707 Feb 05 23:42	21°♌20'45	24°35'00	morning max el	2708 Jan 19 08:59	4°♌40'56	23°06'20
desc. node	2707 Feb 12 12:50	28°♌47'50		desc. node	2708 Jan 30 09:53	18°♌04'45	
	2707 Feb 13 11:48	0°♌			2708 Feb 07 19:07	0°♌	
	2707 Mar 06 00:28	0°♌		morning set	2708 Feb 23 02:20	24°♌03'05	
morning set	2707 Mar 13 23:55	13°♌28'59			2708 Feb 26 14:41	0°♌	
max. Earth dist.	2707 Mar 17 15:41	20°♌01'40	1.37465 AU	max. Earth dist.	2708 Feb 27 10:33	1°♌25'35	1.39606 AU
	2707 Mar 22 23:41	0°♌					
superior conj	2707 Mar 24 09:32	2°♌43'03	-1°31'42	superior conj	2708 Mar 06 03:00	15°♌09'25	-1°52'47
minimum elong	2707 Mar 24 13:52	3°♌04'06	1°31'07	minimum elong	2708 Mar 06 07:08	15°♌28'25	1°52'28
evening rise	2707 Apr 01 23:49	19°♌44'34			2708 Mar 13 23:33	0°♌	
asc. node	2707 Apr 03 15:58	23°♌03'11		evening rise	2708 Mar 15 16:30	3°♌16'36	
	2707 Apr 07 06:49	0°♌		asc. node	2708 Mar 20 13:02	12°♌26'59	
evening max el	2707 Apr 18 19:02	16°♌57'55	19°15'00	evening max el	2708 Mar 31 21:43	29°♌21'47	18°33'02
retrograde	2707 Apr 27 19:49	21°♌20'46			2708 Apr 01 14:08	0°♌	
evening set	2707 Apr 29 21:31	21°♌07'57		retrograde	2708 Apr 08 14:30	3°♌08'37	
inferior conj	2707 May 08 06:36	16°♌58'19	0°55'17	evening set	2708 Apr 10 22:15	2°♌49'07	
minimum elong	2707 May 08 08:48	16°♌54'38	0°54'31		2708 Apr 16 07:17	30°♌	
min. Earth dist.	2707 May 11 03:06	15°♌04'21	0.56264 AU	inferior conj	2708 Apr 18 11:43	28°♌21'00	2°20'44
desc. node	2707 May 11 12:00	14°♌50'05		minimum elong	2708 Apr 18 15:37	28°♌13'22	2°19'40
morning rise	2707 May 16 17:04	12°♌08'15		min. Earth dist.	2708 Apr 21 21:39	25°♌42'07	0.58069 AU
direct	2707 May 21 13:27	11°♌13'59		morning rise	2708 Apr 26 05:52	22°♌58'15	
morning max el	2707 Jun 04 18:25	18°♌28'59	25°19'32	desc. node	2708 Apr 27 09:04	22°♌28'01	
	2707 Jun 14 08:57	0°♌		direct	2708 May 02 02:29	21°♌30'49	
asc. node	2707 Jun 30 15:13	28°♌51'12		morning max el	2708 May 16 11:42	29°♌09'45	26°42'10
	2707 Jul 01 04:21	0°♌			2708 May 17 07:54	0°♌	
morning set	2707 Jul 01 13:16	0°♌46'59		morning set	2708 Jun 07 02:02	0°♌	
				asc. node	2708 Jun 14 23:39	15°♌37'00	
superior conj	2707 Jul 08 12:22	15°♌53'14	1°14'34		2708 Jun 16 12:17	18°♌51'19	
minimum elong	2707 Jul 08 10:00	15°♌40'12	1°14'12		2708 Jun 21 14:56	0°♌	
max. Earth dist.	2707 Jul 09 16:01	18°♌24'11	1.32597 AU	superior conj	2708 Jun 22 00:07	0°♌50'33	0°55'05
	2707 Jul 15 02:21	0°♌		minimum elong	2708 Jun 21 22:01	0°♌38'59	0°54'41
evening rise	2707 Jul 15 15:01	1°♌05'31		max. Earth dist.	2708 Jun 22 03:15	1°♌07'48	1.32185 AU
	2707 Jul 31 13:17	0°♌		evening rise	2708 Jun 28 21:41	15°♌47'41	
desc. node	2707 Aug 07 11:18	9°♌59'24			2708 Jul 06 01:01	0°♌	
evening max el	2707 Aug 16 19:56	20°♌43'33	27°20'27	desc. node	2708 Jul 24 08:19	27°♌57'06	
retrograde	2707 Aug 30 15:09	27°♌59'27			2708 Jul 26 04:01	0°♌	
evening set	2707 Sep 06 19:46	25°♌32'15		evening max el	2708 Jul 28 23:09	2°♌50'43	26°44'06
min. Earth dist.	2707 Sep 10 09:57	22°♌39'58	0.62308 AU	retrograde	2708 Aug 11 22:02	10°♌03'06	
inferior conj	2707 Sep 13 08:38	19°♌55'08	-3°54'42	evening set	2708 Aug 18 18:04	8°♌03'03	
minimum elong	2707 Sep 13 14:12	19°♌42'08	3°53'14	min. Earth dist.	2708 Aug 22 13:05	5°♌25'54	0.60298 AU
morning rise	2707 Sep 20 10:13	14°♌51'18		inferior conj	2708 Aug 25 19:19	2°♌45'59	-4°38'44



















































































































minimum elong	2708 Aug 26 00:00	2° \mathbb{M} 36'21	4°37'58	morning rise	2709 Aug 15 10:55	10° \mathcal{Q} 40'26	
	2708 Aug 29 10:18	30° \mathbb{R} \mathcal{Q}		direct	2709 Aug 17 23:13	10° \mathcal{Q} 20'35	
morning rise	2708 Sep 02 07:55	28° \mathcal{Q} 03'40		morning max el	2709 Aug 26 08:56	14° \mathcal{Q} 19'51	18°46'23
direct	2708 Sep 04 17:33	27° \mathcal{Q} 41'53		asc. node	2709 Aug 30 08:33	18° \mathcal{Q} 55'17	
	2708 Sep 10 14:56	0° \mathbb{M}			2709 Sep 06 05:48	0° \mathbb{M}	
morning max el	2708 Sep 12 03:42	1° \mathbb{M} 20'14	18°09'05	morning set	2709 Sep 11 19:06	10° \mathbb{M} 33'44	
asc. node	2708 Sep 12 11:31	1° \mathbb{M} 39'29					
morning set	2708 Sep 27 23:55	26° \mathbb{M} 27'29		superior conj	2709 Sep 20 09:17	27° \mathbb{M} 13'43	1°37'17
	2708 Sep 29 21:09	0° \mathcal{Q}		minimum elong	2709 Sep 20 11:48	27° \mathbb{M} 25'36	1°37'07
					2709 Sep 21 20:38	0° \mathcal{Q}	
superior conj	2708 Oct 07 14:50	14° \mathcal{Q} 16'18	1°20'08	max. Earth dist.	2709 Sep 27 11:10	10° \mathcal{Q} 12'19	1.39365 AU
minimum elong	2708 Oct 07 18:54	14° \mathcal{Q} 34'37	1°19'41	evening rise	2709 Oct 01 10:49	17° \mathcal{Q} 07'19	
max. Earth dist.	2708 Oct 15 05:57	27° \mathcal{Q} 33'57	1.41401 AU	desc. node	2709 Oct 07 04:39	26° \mathcal{Q} 36'57	
	2708 Oct 16 16:47	0° \mathbb{M}			2709 Oct 09 07:42	0° \mathbb{M}	
evening rise	2708 Oct 20 10:09	6° \mathbb{M} 06'49			2709 Oct 30 13:41	0° \mathcal{Q}	
desc. node	2708 Oct 20 07:38	5° \mathbb{M} 56'37		evening max el	2709 Nov 05 17:03	6° \mathcal{Q} 49'52	24°13'12
	2708 Nov 05 01:17	0° \mathcal{Q}		retrograde	2709 Nov 16 20:49	13° \mathcal{Q} 22'17	
evening max el	2708 Nov 23 03:39	23° \mathcal{Q} 12'06	22°53'25	evening set	2709 Nov 22 04:48	11° \mathcal{Q} 08'46	
retrograde	2708 Dec 03 05:24	29° \mathcal{Q} 10'46		asc. node	2709 Nov 26 07:48	6° \mathcal{Q} 30'41	
evening set	2708 Dec 07 23:47	27° \mathcal{Q} 13'52		min. Earth dist.	2709 Nov 26 22:23	5° \mathcal{Q} 42'04	0.67675 AU
asc. node	2708 Dec 09 10:46	25° \mathcal{Q} 50'30		inferior conj	2709 Nov 27 15:28	4° \mathcal{Q} 44'32	0°27'04
inferior conj	2708 Dec 13 08:38	20° \mathcal{Q} 51'26	1°18'18	minimum elong	2709 Nov 27 14:49	4° \mathcal{Q} 46'43	0°26'48
minimum elong	2708 Dec 13 06:56	20° \mathcal{Q} 57'18	1°17'38		2709 Dec 01 12:29	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	2708 Dec 13 02:11	21° \mathcal{Q} 13'43	0.67890 AU	morning rise	2709 Dec 03 00:50	28° \mathbb{M} 40'37	
morning rise	2708 Dec 18 13:58	14° \mathcal{Q} 42'11		direct	2709 Dec 06 21:38	27° \mathbb{M} 15'23	
direct	2708 Dec 23 00:14	12° \mathcal{Q} 54'50			2709 Dec 12 20:37	0° \mathcal{Q}	
morning max el	2708 Dec 31 22:19	18° \mathcal{Q} 08'07	21°40'28	morning max el	2709 Dec 14 18:51	1° \mathcal{Q} 46'46	20°24'16
	2709 Jan 10 16:16	0° \mathcal{Q}		desc. node	2710 Jan 03 03:55	28° \mathcal{Q} 01'46	
desc. node	2709 Jan 16 06:54	7° \mathcal{Q} 52'04			2710 Jan 04 11:19	0° \mathcal{Q}	
	2709 Jan 30 22:45	0° \approx		morning set	2710 Jan 11 22:37	11° \mathcal{Q} 25'44	
morning set	2709 Feb 01 23:29	3° \approx 12'55		max. Earth dist.	2710 Jan 21 17:03	26° \mathcal{Q} 50'08	1.43475 AU
max. Earth dist.	2709 Feb 08 09:42	13° \approx 39'13	1.41707 AU		2710 Jan 23 16:02	0° \approx	
superior conj	2709 Feb 16 00:34	26° \approx 37'00	-2°04'49	superior conj	2710 Jan 27 21:23	6° \approx 55'39	-2°02'44
minimum elong	2709 Feb 16 02:13	26° \approx 44'14	2°04'48	minimum elong	2710 Jan 27 17:57	6° \approx 41'25	2°02'37
	2709 Feb 17 22:46	0° \mathbb{H}		evening rise	2710 Feb 09 08:47	28° \approx 14'38	
evening rise	2709 Feb 26 20:52	16° \mathbb{H} 09'13			2710 Feb 10 08:53	0° \mathbb{H}	
	2709 Mar 06 13:52	0° \mathbb{Y}		asc. node	2710 Feb 22 07:07	19° \mathbb{H} 49'44	
asc. node	2709 Mar 07 10:05	1° \mathbb{Y} 25'07		evening max el	2710 Feb 26 18:56	25° \mathbb{H} 22'38	18°08'27
evening max el	2709 Mar 15 06:46	12° \mathbb{Y} 12'56	18°11'02	retrograde	2710 Mar 05 06:25	28° \mathbb{H} 46'02	
retrograde	2709 Mar 22 03:18	15° \mathbb{Y} 40'19		evening set	2710 Mar 08 01:51	28° \mathbb{H} 06'47	
evening set	2709 Mar 24 17:15	15° \mathbb{Y} 11'35		inferior conj	2710 Mar 14 08:51	22° \mathbb{H} 57'05	3°37'17
inferior conj	2709 Mar 31 13:33	10° \mathbb{Y} 22'29	3°13'06	minimum elong	2710 Mar 14 09:56	22° \mathbb{H} 54'17	3°37'13
minimum elong	2709 Mar 31 16:30	10° \mathbb{Y} 15'46	3°12'37	min. Earth dist.	2710 Mar 17 05:43	19° \mathbb{H} 59'13	0.62325 AU
min. Earth dist.	2709 Apr 03 21:39	7° \mathbb{Y} 21'44	0.60202 AU	morning rise	2710 Mar 20 16:44	16° \mathbb{H} 57'01	
morning rise	2709 Apr 07 13:33	4° \mathbb{Y} 36'36		direct	2710 Mar 27 14:32	14° \mathbb{H} 24'30	
direct	2709 Apr 14 03:44	2° \mathbb{Y} 33'04		desc. node	2710 Apr 01 03:08	15° \mathbb{H} 22'37	
desc. node	2709 Apr 14 06:06	2° \mathbb{Y} 33'06		morning max el	2710 Apr 10 15:50	22° \mathbb{H} 20'50	27°50'24
morning max el	2709 Apr 28 10:46	10° \mathbb{Y} 24'21	27°34'41		2710 Apr 17 09:42	0° \mathbb{Y}	
	2709 May 13 15:26	0° \mathcal{B}			2710 May 06 19:05	0° \mathcal{B}	
morning set	2709 May 30 06:51	0° \mathbb{I} 15'05		morning set	2710 May 14 08:50	14° \mathcal{B} 34'46	
	2709 May 30 03:56	0° \mathbb{I}		max. Earth dist.	2710 May 19 23:40	26° \mathcal{B} 21'02	1.32542 AU
asc. node	2709 Jun 03 09:20	8° \mathbb{I} 57'56		asc. node	2710 May 21 06:23	29° \mathcal{B} 06'50	
max. Earth dist.	2709 Jun 05 15:04	13° \mathbb{I} 50'57	1.32165 AU				
				superior conj	2710 May 21 21:06	0° \mathbb{I} 26'44	0°06'29
superior conj	2709 Jun 06 11:36	15° \mathbb{I} 43'39	0°32'09	minimum elong	2710 May 21 20:48	0° \mathbb{I} 25'04	0°06'24
minimum elong	2709 Jun 06 10:13	15° \mathbb{I} 36'01	0°31'51	behind sun begin	2710 May 21 16:02	29° \mathcal{B} 59'12	
evening rise	2709 Jun 13 07:52	0° \mathcal{E} 37'38		behind sun end	2710 May 22 01:34	0° \mathbb{I} 50'58	
	2709 Jun 13 00:47	0° \mathcal{E}			2710 May 21 16:11	0° \mathbb{I}	
	2709 Jun 29 08:36	0° \mathcal{Q}		evening rise	2710 May 28 19:36	15° \mathbb{I} 28'41	
evening max el	2709 Jul 10 19:16	14° \mathcal{Q} 10'29	25°36'37		2710 Jun 05 01:17	0° \mathcal{E}	
desc. node	2709 Jul 11 05:21	14° \mathcal{Q} 34'16		evening max el	2710 Jun 22 09:30	24° \mathcal{E} 50'46	24°07'12
retrograde	2709 Jul 24 19:14	21° \mathcal{Q} 18'06		desc. node	2710 Jun 28 02:23	29° \mathcal{E} 19'41	
evening set	2709 Jul 30 17:50	19° \mathcal{Q} 55'11			2710 Jun 29 07:20	0° \mathcal{Q}	
min. Earth dist.	2709 Aug 04 07:25	17° \mathcal{Q} 15'43	0.58247 AU	retrograde	2710 Jul 06 04:43	1° \mathcal{Q} 47'48	
inferior conj	2709 Aug 07 12:01	15° \mathcal{Q} 00'02	-5°01'54	evening set	2710 Jul 10 18:10	1° \mathcal{Q} 01'41	
minimum elong	2709 Aug 07 13:14	14° \mathcal{Q} 57'52	5°01'52		2710 Jul 13 06:59	30° \mathbb{R} \mathcal{E}	

min. Earth dist.	2710 Jul 16 20:08	28°☾02'55	0.56445 AU	evening set	2711 Jun 20 04:40	11°☾27'13	
inferior conj	2710 Jul 19 08:30	26°☾29'25	-4°50'00	min. Earth dist.	2711 Jun 28 07:21	7°☾55'39	0.55226 AU
minimum elong	2710 Jul 19 04:09	26°☾36'12	4°49'32	inferior conj	2711 Jun 29 10:58	7°☾16'25	-3°50'41
morning rise	2710 Jul 27 16:46	22°☾29'39		minimum elong	2711 Jun 29 02:54	7°☾27'53	3°48'40
direct	2710 Jul 30 09:45	22°☾10'26		morning rise	2711 Jul 08 03:18	3°☾25'13	
morning max el	2710 Aug 09 04:21	26°☾42'46	19°45'09	direct	2711 Jul 11 02:34	3°☾05'06	
	2710 Aug 12 05:58	0°♊		morning max el	2711 Jul 22 12:24	8°☾23'12	21°04'39
asc. node	2710 Aug 17 05:35	7°♊03'03		asc. node	2711 Aug 04 02:38	25°☾50'55	
morning set	2710 Aug 26 21:47	25°♊02'01			2711 Aug 06 08:15	0°♊	
	2710 Aug 29 08:36	0°♊		morning set	2711 Aug 11 05:28	9°♊45'47	
superior conj	2710 Sep 03 18:55	10°♊56'26	1°44'39	superior conj	2711 Aug 18 15:20	25°♊12'10	1°43'57
minimum elong	2710 Sep 03 19:36	10°♊59'52	1°44'38	minimum elong	2711 Aug 18 14:31	25°♊07'56	1°43'56
max. Earth dist.	2710 Sep 09 15:45	22°♊16'08	1.37328 AU		2711 Aug 20 23:41	0°♊	
evening rise	2710 Sep 13 10:28	29°♊11'41		max. Earth dist.	2711 Aug 23 01:08	4°♊07'28	1.35517 AU
	2710 Sep 13 21:16	0°♊		evening rise	2711 Aug 27 05:22	12°♊11'31	
desc. node	2710 Sep 24 01:40	17°♊07'10			2711 Sep 06 07:48	0°♊	
	2710 Oct 02 15:04	0°♊		desc. node	2711 Sep 10 22:42	7°♊22'09	
evening max el	2710 Oct 19 05:08	20°♊30'08	25°27'48		2711 Sep 27 17:54	0°♊	
retrograde	2710 Oct 31 07:50	27°♊28'02		evening max el	2711 Oct 01 17:17	4°♊09'16	26°29'40
evening set	2710 Nov 06 06:01	24°♊59'29		retrograde	2711 Oct 14 13:55	11°♊22'22	
min. Earth dist.	2710 Nov 10 15:44	20°♊07'41	0.67119 AU	evening set	2711 Oct 21 01:32	8°♊42'57	
inferior conj	2710 Nov 11 19:43	18°♊37'38	-0°28'28	min. Earth dist.	2711 Oct 25 04:03	4°♊27'06	0.66219 AU
minimum elong	2710 Nov 11 20:26	18°♊35'17	0°28'09	inferior conj	2711 Oct 26 19:31	2°♊27'58	-1°26'55
asc. node	2710 Nov 13 04:48	16°♊52'47		minimum elong	2711 Oct 26 21:52	2°♊20'54	1°25'58
morning rise	2710 Nov 17 11:07	12°♊41'33			2711 Oct 28 22:16	30°♊	
direct	2710 Nov 20 20:08	11°♊35'52		asc. node	2711 Oct 31 01:49	27°♊53'57	
morning max el	2710 Nov 27 23:18	15°♊36'08	19°21'39	morning rise	2711 Nov 01 18:47	26°♊42'18	
	2710 Dec 08 23:00	0°♊		direct	2711 Nov 04 18:05	25°♊52'33	
greatest brilliancy	2710 Dec 11 13:32	3°♊54'08	-0.7m	morning max el	2711 Nov 11 10:18	29°♊32'26	18°34'36
desc. node	2710 Dec 21 00:56	18°♊27'08			2711 Nov 11 21:02	0°♊	
morning set	2710 Dec 21 22:09	19°♊49'18		morning set	2711 Dec 01 20:17	29°♊24'57	
	2710 Dec 28 11:11	0°♊			2711 Dec 02 05:05	0°♊	
max. Earth dist.	2711 Jan 04 07:16	10°♊43'53	1.44676 AU	desc. node	2711 Dec 07 21:58	9°♊03'34	
superior conj	2711 Jan 07 16:23	16°♊05'39	-1°42'05	superior conj	2711 Dec 17 19:11	24°♊37'18	-1°03'24
minimum elong	2711 Jan 07 07:59	15°♊32'14	1°41'22	minimum elong	2711 Dec 17 11:26	24°♊06'55	1°02'28
	2711 Jan 16 07:03	0°♊		max. Earth dist.	2711 Dec 18 01:10	25°♊00'47	1.45179 AU
evening rise	2711 Jan 22 00:02	9°♊25'20			2711 Dec 21 05:25	0°♊	
	2711 Feb 03 14:47	0°♊		evening rise	2712 Jan 02 16:00	19°♊38'53	
asc. node	2711 Feb 09 04:08	7°♊30'33			2712 Jan 09 04:08	0°♊	
evening max el	2711 Feb 10 07:18	8°♊43'34	18°24'42	greatest brilliancy	2712 Jan 11 10:27	3°♊34'39	-0.8m
retrograde	2711 Feb 16 19:16	12°♊16'02		evening max el	2712 Jan 24 17:29	22°♊10'53	18°58'50
evening set	2711 Feb 19 20:07	11°♊25'28		asc. node	2712 Jan 27 01:09	24°♊15'21	
inferior conj	2711 Feb 25 17:33	5°♊56'52	3°40'03	retrograde	2712 Jan 31 13:57	26°♊03'24	
minimum elong	2711 Feb 25 16:53	5°♊58'48	3°40'01	evening set	2712 Feb 03 21:02	25°♊00'33	
min. Earth dist.	2711 Feb 27 23:22	3°♊21'33	0.64205 AU	inferior conj	2712 Feb 09 11:57	19°♊15'11	3°26'55
	2711 Mar 03 07:39	30°♊		minimum elong	2712 Feb 09 10:04	19°♊21'04	3°26'38
morning rise	2711 Mar 03 12:58	29°♊48'53		min. Earth dist.	2712 Feb 11 02:22	17°♊14'40	0.65722 AU
direct	2711 Mar 10 09:24	27°♊00'13		morning rise	2712 Feb 14 22:45	13°♊03'17	
	2711 Mar 18 07:44	0°♊		direct	2712 Feb 21 11:11	10°♊12'29	
desc. node	2711 Mar 19 00:09	0°♊29'24		desc. node	2712 Mar 04 21:11	17°♊18'37	
morning max el	2711 Mar 24 00:50	4°♊54'13	27°29'36	morning max el	2712 Mar 05 10:43	17°♊52'17	26°37'43
	2711 Apr 12 01:07	0°♊			2712 Mar 15 15:22	0°♊	
morning set	2711 Apr 28 03:05	28°♊28'03			2712 Apr 03 23:39	0°♊	
	2711 Apr 28 21:40	0°♊		morning set	2712 Apr 10 10:07	11°♊44'08	
max. Earth dist.	2711 May 03 00:56	8°♊25'10	1.33340 AU	max. Earth dist.	2712 Apr 14 15:19	19°♊55'14	1.34601 AU
superior conj	2711 May 06 02:47	14°♊54'03	-0°21'09	superior conj	2712 Apr 19 02:26	28°♊58'31	-0°49'33
minimum elong	2711 May 06 03:51	14°♊59'42	0°20'55	minimum elong	2712 Apr 19 05:00	29°♊11'44	0°49'02
asc. node	2711 May 08 03:25	19°♊14'03			2712 Apr 19 14:19	0°♊	
evening rise	2711 May 13 07:02	0°♊14'28		asc. node	2712 Apr 24 00:28	9°♊14'59	
	2711 May 13 04:18	0°♊		evening rise	2712 Apr 26 16:17	14°♊48'17	
	2711 May 30 07:04	0°♊			2712 May 04 10:52	0°♊	
evening max el	2711 Jun 04 00:02	5°♊18'13	22°30'51	evening max el	2712 May 15 22:31	16°♊04'05	21°01'38
desc. node	2711 Jun 14 23:23	11°♊38'05		retrograde	2712 May 27 15:38	21°♊47'16	
retrograde	2711 Jun 17 02:17	11°♊48'24		evening set	2712 May 29 20:09	21°♊36'02	

desc. node	2712 May 31 20:25	21° Π 07'08			2713 May 01 10:53	0° Π
inferior conj	2712 Jun 08 04:37	17° Π 38'03	-2°07'22	retrograde	2713 May 08 08:03	2° Π 17'22
minimum elong	2712 Jun 07 22:43	17° Π 46'24	2°05'19	evening set	2713 May 10 08:02	2° Π 06'35
min. Earth dist.	2712 Jun 08 19:29	17° Π 17'02	0.54882 AU		2713 May 15 21:51	30° \mathbb{R} 8
morning rise	2712 Jun 17 01:13	13° Π 36'19		desc. node	2713 May 18 17:26	28° \mathbb{B} 21'24
direct	2712 Jun 20 11:57	13° Π 10'39		inferior conj	2713 May 19 03:57	28° \mathbb{B} 05'13 -0°07'41
morning max el	2712 Jul 03 09:49	19° Π 20'42	22°40'35	minimum elong	2713 May 19 03:37	28° \mathbb{B} 05'45 0°07'34
	2712 Jul 12 04:53	0° \mathfrak{D}		transit middle	2713 May 19 03:37	28° \mathbb{B} 05'45 0°07'34
asc. node	2712 Jul 20 23:41	15° \mathfrak{D} 08'01		transit begin	2713 May 19 00:08	28° \mathbb{B} 11'07
morning set	2712 Jul 25 16:05	24° \mathfrak{D} 37'56		transit end	2713 May 19 07:06	28° \mathbb{B} 00'22
	2712 Jul 28 04:53	0° Ω		min. Earth dist.	2713 May 21 09:04	26° \mathbb{B} 43'35 0.55515 AU
				morning rise	2713 May 27 20:54	23° \mathbb{B} 35'32
superior conj	2712 Aug 01 19:05	9° Ω 49'10	1°36'41	direct	2713 Jun 01 03:36	22° \mathbb{B} 55'01
minimum elong	2712 Aug 01 17:14	9° Ω 39'23	1°36'32	morning max el	2713 Jun 15 00:47	29° \mathbb{B} 49'57 24°23'09
max. Earth dist.	2712 Aug 04 19:11	16° Ω 08'24	1.34065 AU		2713 Jun 15 04:59	0° Π
evening rise	2712 Aug 09 14:52	25° Ω 53'31			2713 Jul 05 11:29	0° \mathfrak{D}
	2712 Aug 11 17:48	0° \mathbb{M}		asc. node	2713 Jul 07 20:46	4° \mathfrak{D} 46'42
desc. node	2712 Aug 27 19:44	27° \mathbb{M} 14'04		morning set	2713 Jul 10 03:53	9° \mathfrak{D} 33'20
	2712 Aug 29 17:13	0° \mathfrak{L}				
evening max el	2712 Sep 13 05:32	17° \mathfrak{L} 38'54	27°11'27	superior conj	2713 Jul 17 03:32	24° \mathfrak{D} 39'13 1°23'59
retrograde	2712 Sep 26 14:29	24° \mathfrak{L} 57'12		minimum elong	2713 Jul 17 01:12	24° \mathfrak{D} 26'34 1°23'41
evening set	2712 Oct 03 12:57	22° \mathfrak{L} 14'17		max. Earth dist.	2713 Jul 18 22:13	28° \mathfrak{D} 29'57 1.33020 AU
min. Earth dist.	2712 Oct 07 09:01	18° \mathfrak{L} 34'09	0.64965 AU		2713 Jul 19 14:59	0° Ω
inferior conj	2712 Oct 09 12:41	16° \mathfrak{L} 10'47	-2°26'26	evening rise	2713 Jul 24 11:01	10° Ω 06'18
minimum elong	2712 Oct 09 16:40	15° \mathfrak{L} 59'44	2°24'56		2713 Aug 04 01:37	0° \mathbb{M}
morning rise	2712 Oct 15 21:20	10° \mathfrak{L} 38'32		desc. node	2713 Aug 14 16:45	16° \mathbb{M} 33'11
asc. node	2712 Oct 16 22:52	10° \mathfrak{L} 14'30			2713 Aug 25 20:55	0° \mathfrak{L}
direct	2712 Oct 18 13:22	10° \mathfrak{L} 00'46		evening max el	2713 Aug 26 16:24	0° \mathfrak{L} 47'06 27°26'17
morning max el	2712 Oct 25 01:24	13° \mathfrak{L} 29'30	18°04'15	retrograde	2713 Sep 09 08:42	8° \mathfrak{L} 03'56
	2712 Nov 05 16:20	0° \mathbb{M}		evening set	2713 Sep 16 13:13	5° \mathfrak{L} 27'43
morning set	2712 Nov 11 23:52	10° \mathbb{M} 28'12		min. Earth dist.	2713 Sep 20 04:35	2° \mathfrak{L} 20'03 0.63367 AU
desc. node	2712 Nov 23 19:00	29° \mathbb{M} 47'02		inferior conj	2713 Sep 22 20:35	29° \mathbb{M} 40'07 -3°24'06
	2712 Nov 23 22:14	0° \mathfrak{X}		minimum elong	2713 Sep 23 01:51	29° \mathbb{M} 26'57 3°22'28
					2713 Sep 22 12:41	30° \mathbb{R} 17
superior conj	2712 Nov 26 01:59	3° \mathfrak{X} 26'51	-0°15'29	morning rise	2713 Sep 29 15:46	24° \mathbb{M} 24'38
minimum elong	2712 Nov 26 00:03	3° \mathfrak{X} 19'09	0°15'12	direct	2713 Oct 02 03:11	23° \mathbb{M} 55'16
behind sun begin	2712 Nov 25 20:19	3° \mathfrak{X} 04'16		asc. node	2713 Oct 03 19:57	24° \mathbb{M} 09'23
behind sun end	2712 Nov 26 03:47	3° \mathfrak{X} 34'02		morning max el	2713 Oct 08 17:45	27° \mathbb{M} 20'56 17°51'25
max. Earth dist.	2712 Nov 29 20:03	9° \mathfrak{X} 23'47	1.44941 AU		2713 Oct 11 02:14	0° \mathfrak{L}
evening rise	2712 Dec 12 11:00	29° \mathfrak{X} 04'19		morning set	2713 Oct 25 04:50	22° \mathfrak{L} 45'02
	2712 Dec 13 01:24	0° \mathfrak{Z}			2713 Oct 29 08:57	0° \mathbb{M}
greatest brilliancy	2712 Dec 26 00:19	19° \mathfrak{Z} 46'48	-0.7m			
	2713 Jan 02 04:58	0° \mathfrak{Z}		superior conj	2713 Nov 06 06:27	13° \mathbb{M} 21'49 0°29'50
evening max el	2713 Jan 06 23:36	5° \mathfrak{Z} 41'26	19°49'16	minimum elong	2713 Nov 06 09:26	13° \mathbb{M} 34'11 0°29'25
asc. node	2713 Jan 12 22:10	9° \mathfrak{Z} 49'40		desc. node	2713 Nov 10 16:02	20° \mathbb{M} 33'59
retrograde	2713 Jan 14 11:23	10° \mathfrak{Z} 02'51		max. Earth dist.	2713 Nov 12 13:22	23° \mathbb{M} 36'33 1.44003 AU
evening set	2713 Jan 18 02:08	8° \mathfrak{Z} 46'28			2713 Nov 16 13:56	0° \mathfrak{X}
inferior conj	2713 Jan 23 13:00	2° \mathfrak{Z} 46'47	3°01'49	evening rise	2713 Nov 21 19:53	8° \mathfrak{X} 10'23
minimum elong	2713 Jan 23 10:32	2° \mathfrak{Z} 55'01	3°01'15		2713 Dec 06 08:28	0° \mathfrak{Z}
min. Earth dist.	2713 Jan 24 13:07	1° \mathfrak{Z} 26'42	0.66830 AU	evening max el	2713 Dec 21 00:23	19° \mathfrak{Z} 12'50 20°53'30
	2713 Jan 25 15:52	30° \mathbb{R} 3		retrograde	2713 Dec 29 09:15	24° \mathfrak{Z} 09'59
morning rise	2713 Jan 28 18:41	26° \mathfrak{Z} 33'26		asc. node	2713 Dec 30 19:13	23° \mathfrak{Z} 58'53
direct	2713 Feb 03 18:50	23° \mathfrak{Z} 52'36		evening set	2714 Jan 02 09:24	22° \mathfrak{Z} 38'34
	2713 Feb 14 17:58	0° \mathfrak{Z}		inferior conj	2714 Jan 07 18:13	16° \mathfrak{Z} 27'18 2°27'21
morning max el	2713 Feb 15 19:39	1° \mathfrak{Z} 03'17	25°23'38	minimum elong	2714 Jan 07 15:40	16° \mathfrak{Z} 36'02 2°26'35
desc. node	2713 Feb 19 18:13	5° \mathfrak{Z} 21'10		min. Earth dist.	2714 Jan 08 05:28	15° \mathfrak{Z} 48'41 0.67538 AU
	2713 Mar 09 15:29	0° \mathfrak{X}		morning rise	2714 Jan 12 21:46	10° \mathfrak{Z} 14'21
morning set	2713 Mar 24 01:23	24° \mathfrak{X} 10'05		direct	2714 Jan 18 07:24	7° \mathfrak{Z} 51'42
	2713 Mar 27 05:26	0° \mathfrak{Y}		morning max el	2714 Jan 29 04:03	14° \mathfrak{Z} 20'08 23°57'26
max. Earth dist.	2713 Mar 27 18:11	0° \mathfrak{Y} 59'45	1.36315 AU	desc. node	2714 Feb 06 15:15	24° \mathfrak{Z} 15'15
					2714 Feb 10 22:05	0° \mathfrak{Z}
superior conj	2713 Apr 02 17:22	12° \mathfrak{Y} 33'05	-1°17'05		2714 Mar 02 13:17	0° \mathfrak{X}
minimum elong	2713 Apr 02 21:14	12° \mathfrak{Y} 52'19	1°16'29	morning set	2714 Mar 05 18:56	5° \mathfrak{X} 28'52
evening rise	2713 Apr 10 21:13	29° \mathfrak{Y} 04'10		max. Earth dist.	2714 Mar 09 14:00	12° \mathfrak{X} 07'12 1.38368 AU
asc. node	2713 Apr 10 21:31	29° \mathfrak{Y} 05'44				
	2713 Apr 11 08:16	0° \mathbb{B}		superior conj	2714 Mar 16 19:54	25° \mathfrak{X} 27'22 -1°41'28
evening max el	2713 Apr 28 08:52	27° \mathbb{B} 27'52	19°48'22	minimum elong	2714 Mar 17 00:21	25° \mathfrak{X} 48'31 1°40'59

	2714 Mar 19 04:50	0°♿		evening rise	2715 Mar 09 07:05	26°♿10'43	
evening rise	2714 Mar 25 19:12	12°♿54'17			2715 Mar 11 07:54	0°♿	
asc. node	2714 Mar 28 18:34	18°♿40'50		asc. node	2715 Mar 15 15:36	7°♿54'31	
	2714 Apr 04 01:45	0°♿		evening max el	2715 Mar 25 11:58	22°♿06'51	18°21'10
evening max el	2714 Apr 11 06:17	9°♿30'58	18°54'39	retrograde	2715 Apr 01 18:48	25°♿43'47	
retrograde	2714 Apr 19 15:49	13°♿36'17		evening set	2715 Apr 04 05:12	25°♿20'36	
evening set	2714 Apr 21 20:07	13°♿20'52		inferior conj	2715 Apr 11 10:52	20°♿43'15	2°46'50
inferior conj	2714 Apr 29 20:42	9°♿03'40	1°35'37	minimum elong	2715 Apr 11 14:35	20°♿35'29	2°46'00
minimum elong	2714 Apr 30 00:03	8°♿57'42	1°34'33	min. Earth dist.	2715 Apr 14 21:24	17°♿52'05	0.58957 AU
min. Earth dist.	2714 May 03 00:58	6°♿48'34	0.56975 AU	morning rise	2715 Apr 18 21:13	15°♿09'14	
desc. node	2714 May 05 14:28	5°♿11'34		desc. node	2715 Apr 22 11:29	13°♿44'44	
morning rise	2714 May 08 00:51	3°♿59'15		direct	2715 Apr 25 02:10	13°♿26'30	
direct	2714 May 13 08:07	2°♿51'59		morning max el	2715 May 09 11:17	21°♿11'35	27°08'56
morning max el	2714 May 27 15:35	10°♿17'53	25°57'45		2715 May 17 02:57	0°♿	
	2714 Jun 11 15:51	0°♿			2715 Jun 04 11:16	0°♿	
morning set	2714 Jun 24 15:14	24°♿26'53		morning set	2715 Jun 09 00:28	9°♿12'34	
asc. node	2714 Jun 24 17:50	24°♿40'36		asc. node	2715 Jun 11 14:52	14°♿44'01	
	2714 Jun 27 05:29	0°♿					
superior conj	2714 Jul 01 14:35	9°♿35'27	1°06'46	superior conj	2715 Jun 16 02:22	24°♿31'22	0°45'43
minimum elong	2714 Jul 01 12:16	9°♿22'43	1°06'22	minimum elong	2715 Jun 16 00:31	24°♿21'11	0°45'21
max. Earth dist.	2714 Jul 02 07:35	11°♿08'48	1.32376 AU	max. Earth dist.	2715 Jun 15 19:37	23°♿54'14	1.32124 AU
evening rise	2714 Jul 08 14:35	24°♿40'04			2715 Jun 18 14:05	0°♿	
	2714 Jul 11 05:13	0°♿		evening rise	2715 Jun 22 22:57	9°♿26'04	
	2714 Jul 28 18:17	0°♿			2715 Jul 03 13:46	0°♿	
desc. node	2714 Aug 01 13:47	5°♿06'03		desc. node	2715 Jul 19 10:49	22°♿32'51	
evening max el	2714 Aug 08 23:11	13°♿19'57	27°09'08	evening max el	2715 Jul 21 23:16	25°♿06'15	26°18'50
retrograde	2714 Aug 22 19:49	20°♿33'34			2715 Jul 28 07:33	0°♿	
evening set	2714 Aug 29 22:22	18°♿16'30		retrograde	2715 Aug 04 22:47	2°♿17'14	
min. Earth dist.	2714 Sep 02 13:27	15°♿32'39	0.61473 AU	evening set	2715 Aug 11 11:35	0°♿31'47	
inferior conj	2714 Sep 05 16:04	12°♿48'00	-4°15'11		2715 Aug 12 10:27	30°♿	
minimum elong	2714 Sep 05 21:31	12°♿35'55	4°13'58	min. Earth dist.	2715 Aug 15 12:13	27°♿56'20	0.59412 AU
morning rise	2714 Sep 12 22:20	7°♿52'56		inferior conj	2715 Aug 18 19:27	25°♿24'03	-4°51'53
direct	2714 Sep 15 07:57	7°♿28'58		minimum elong	2715 Aug 18 23:01	25°♿17'10	4°51'30
asc. node	2714 Sep 20 17:01	9°♿33'50		morning rise	2715 Aug 26 12:35	20°♿51'49	
morning max el	2714 Sep 22 08:23	10°♿59'44	17°57'05	direct	2715 Aug 28 23:06	20°♿31'03	
	2714 Oct 04 22:32	0°♿		morning max el	2715 Sep 05 18:01	24°♿16'34	18°22'28
morning set	2714 Oct 08 04:44	5°♿56'20		asc. node	2715 Sep 07 14:04	26°♿13'19	
					2715 Sep 10 11:36	0°♿	
superior conj	2714 Oct 18 14:04	24°♿37'08	1°05'09	morning set	2715 Sep 21 18:03	19°♿45'26	
minimum elong	2714 Oct 18 18:30	24°♿56'24	1°04'35		2715 Sep 27 02:56	0°♿	
	2714 Oct 21 17:01	0°♿		superior conj	2715 Sep 30 21:24	7°♿01'49	1°28'42
max. Earth dist.	2714 Oct 26 02:29	7°♿21'56	1.42473 AU	minimum elong	2715 Oct 01 00:54	7°♿17'54	1°28'23
desc. node	2714 Oct 28 13:04	11°♿21'30		max. Earth dist.	2715 Oct 08 09:49	20°♿24'22	1.40546 AU
evening rise	2714 Nov 01 11:17	17°♿38'34		evening rise	2715 Oct 12 22:09	28°♿00'36	
	2714 Nov 09 11:28	0°♿			2715 Oct 14 03:13	0°♿	
	2714 Dec 01 06:26	0°♿		desc. node	2715 Oct 15 10:07	2°♿05'27	
evening max el	2714 Dec 03 19:38	2°♿45'32	22°07'47		2715 Nov 03 01:55	0°♿	
retrograde	2714 Dec 13 05:47	8°♿21'55		evening max el	2715 Nov 16 10:25	16°♿20'18	23°27'24
evening set	2714 Dec 17 17:05	6°♿34'19		retrograde	2715 Nov 26 23:31	22°♿34'39	
asc. node	2714 Dec 17 16:15	6°♿36'00		evening set	2715 Dec 01 23:33	20°♿30'24	
inferior conj	2714 Dec 23 01:30	0°♿14'45	1°45'23	asc. node	2715 Dec 04 13:16	17°♿49'55	
minimum elong	2714 Dec 22 23:22	0°♿22'09	1°44'36	inferior conj	2715 Dec 07 09:00	14°♿06'26	0°57'13
min. Earth dist.	2714 Dec 23 01:12	0°♿15'49	0.67869 AU	minimum elong	2715 Dec 07 07:42	14°♿10'54	0°56'40
	2714 Dec 23 05:45	30°♿		min. Earth dist.	2715 Dec 06 21:56	14°♿44'22	0.67841 AU
morning rise	2714 Dec 28 05:32	24°♿03'44		morning rise	2715 Dec 12 15:48	7°♿59'14	
direct	2715 Jan 02 00:06	22°♿03'24		direct	2715 Dec 16 20:04	6°♿21'44	
morning max el	2715 Jan 11 14:43	27°♿43'36	22°28'59	morning max el	2715 Dec 25 07:02	11°♿16'21	21°06'34
	2715 Jan 13 18:02	0°♿			2716 Jan 08 19:42	0°♿	
desc. node	2715 Jan 24 12:17	13°♿46'30		desc. node	2716 Jan 11 09:20	3°♿44'27	
	2715 Feb 04 14:06	0°♿		morning set	2716 Jan 24 19:02	24°♿07'17	
morning set	2715 Feb 14 08:57	15°♿26'39			2716 Jan 28 12:08	0°♿	
max. Earth dist.	2715 Feb 19 10:29	23°♿52'16	1.40531 AU	max. Earth dist.	2716 Feb 01 12:55	6°♿31'00	1.42514 AU
	2715 Feb 22 23:59	0°♿					
superior conj	2715 Feb 27 05:30	7°♿29'59	-1°59'17	superior conj	2716 Feb 08 17:01	18°♿29'23	-2°05'59
minimum elong	2715 Feb 27 08:54	7°♿45'20	1°59'06	minimum elong	2716 Feb 08 16:47	18°♿28'23	2°05'58
					2716 Feb 15 07:42	0°♿	

evening rise	2716 Feb 20 05:03	8° H 44'57		superior conj	2717 Jan 19 02:35	28° Z 17'57	-1°56'23
asc. node	2716 Mar 01 12:36	26° H 39'54		minimum elong	2717 Jan 18 20:43	27° Z 54'04	1°56'04
	2716 Mar 03 17:55	0° Y			2717 Jan 20 03:38	0° \approx	
evening max el	2716 Mar 07 22:42	5° Y 07'14	18°07'34	evening rise	2717 Feb 01 08:40	20° \approx 27'50	
retrograde	2716 Mar 14 14:19	8° Y 31'29			2717 Feb 06 22:30	0° H	
evening set	2716 Mar 17 06:31	7° Y 58'34		asc. node	2717 Feb 16 09:37	14° H 47'35	
inferior conj	2716 Mar 23 20:42	3° Y 00'43	3°26'24	evening max el	2717 Feb 19 11:20	18° H 23'01	18°13'08
minimum elong	2716 Mar 23 22:53	2° Y 55'25	3°26'08	retrograde	2717 Feb 25 21:58	21° H 48'38	
	2716 Mar 26 24:00	30° K H		evening set	2717 Feb 28 19:38	21° H 04'45	
min. Earth dist.	2716 Mar 27 00:51	29° H 58'01	0.61117 AU	inferior conj	2717 Mar 06 22:11	15° H 47'06	3°40'41
morning rise	2716 Mar 30 13:24	27° H 07'28		minimum elong	2717 Mar 06 22:28	15° H 46'20	3°40'40
direct	2716 Apr 06 07:55	24° H 50'09		min. Earth dist.	2717 Mar 09 13:01	12° H 56'34	0.63166 AU
desc. node	2716 Apr 08 08:30	25° H 01'43		morning rise	2717 Mar 13 00:18	9° H 43'08	
	2716 Apr 17 13:10	0° Y		direct	2717 Mar 19 22:40	7° H 01'37	
morning max el	2716 Apr 20 13:19	2° Y 45'27	27°46'02	desc. node	2717 Mar 26 05:32	8° H 53'58	
	2716 May 10 13:14	0° B		morning max el	2717 Apr 02 20:13	14° H 58'27	27°45'41
morning set	2716 May 23 05:44	23° B 44'27			2717 Apr 15 01:59	0° Y	
	2716 May 26 05:28	0° II			2717 May 03 03:41	0° B	
asc. node	2716 May 28 11:54	4° II 52'35		morning set	2717 May 07 04:46	7° B 53'57	
max. Earth dist.	2716 May 29 06:29	6° II 33'35	1.32268 AU	max. Earth dist.	2717 May 12 12:12	18° B 52'50	1.32825 AU
superior conj	2716 May 30 13:14	9° II 21'30	0°21'32	superior conj	2717 May 14 21:21	23° B 58'48	-0°05'05
minimum elong	2716 May 30 12:15	9° II 16'11	0°21'20	minimum elong	2717 May 14 21:36	24° B 00'09	0°05'02
evening rise	2716 Jun 06 10:01	24° II 17'33		behind sun begin	2717 May 14 16:35	23° B 33'05	
	2716 Jun 09 03:40	0° E		behind sun end	2717 May 15 02:37	24° B 27'14	
	2716 Jun 27 03:42	0° Ω		asc. node	2717 May 15 08:56	25° B 01'18	
evening max el	2716 Jul 02 16:15	6° Ω 06'54	25°00'31		2717 May 17 16:05	0° II	
desc. node	2716 Jul 05 07:48	8° Ω 27'01		evening rise	2717 May 21 21:50	9° II 07'00	
retrograde	2716 Jul 16 15:39	13° Ω 12'13			2717 Jun 01 18:15	0° E	
evening set	2716 Jul 22 01:06	12° Ω 05'39		evening max el	2717 Jun 14 05:46	16° E 38'01	23°26'13
min. Earth dist.	2716 Jul 27 03:50	9° Ω 19'41	0.57425 AU	desc. node	2717 Jun 22 04:48	22° E 13'50	
inferior conj	2716 Jul 30 03:38	7° Ω 19'43	-5°02'05	retrograde	2717 Jun 27 19:55	23° E 25'48	
minimum elong	2716 Jul 30 02:36	7° Ω 21'28	5°02'03	evening set	2717 Jul 01 17:30	22° E 52'31	
morning rise	2716 Aug 07 06:41	3° Ω 09'29		min. Earth dist.	2717 Jul 08 15:47	19° E 41'09	0.55835 AU
direct	2716 Aug 09 20:32	2° Ω 50'13		inferior conj	2717 Jul 10 15:48	18° E 29'59	-4°31'03
morning max el	2716 Aug 18 19:28	7° Ω 02'09	19°08'45	minimum elong	2717 Jul 10 09:19	18° E 39'38	4°29'55
asc. node	2716 Aug 24 11:06	13° Ω 52'59		morning rise	2717 Jul 19 03:39	14° E 35'19	
	2716 Sep 02 15:37	0° M		direct	2717 Jul 21 22:59	14° E 15'58	
morning set	2716 Sep 04 16:44	4° M 01'38		morning max el	2717 Aug 01 10:04	19° E 07'03	20°16'33
					2717 Aug 09 22:27	0° Ω	
superior conj	2716 Sep 12 22:54	20° M 20'09	1°41'29	asc. node	2717 Aug 11 08:09	2° Ω 19'00	
minimum elong	2716 Sep 13 00:37	20° M 28'29	1°41'25	morning set	2717 Aug 19 21:49	18° Ω 36'54	
	2716 Sep 18 01:43	0° $\underline{\text{A}}$			2717 Aug 25 10:51	0° M	
max. Earth dist.	2716 Sep 19 13:31	2° $\underline{\text{A}}$ 43'26	1.38480 AU	superior conj	2717 Aug 27 13:33	4° M 17'47	1°45'14
evening rise	2716 Sep 23 08:53	9° $\underline{\text{A}}$ 28'53		minimum elong	2717 Aug 27 13:33	4° M 17'45	1°45'14
desc. node	2716 Oct 01 07:08	22° $\underline{\text{A}}$ 41'55		max. Earth dist.	2717 Sep 01 19:23	14° M 38'04	1.36521 AU
	2716 Oct 05 23:25	0° M		evening rise	2717 Sep 05 17:17	21° M 58'17	
	2716 Oct 28 23:22	0° A			2717 Sep 10 05:26	0° $\underline{\text{A}}$	
evening max el	2716 Oct 28 22:55	29° M 58'53	24°46'00	desc. node	2717 Sep 18 04:09	13° $\underline{\text{A}}$ 06'18	
retrograde	2716 Nov 09 13:18	6° A 44'04			2717 Sep 29 19:16	0° M	
evening set	2716 Nov 15 03:11	4° A 23'57		evening max el	2717 Oct 11 11:09	13° M 40'09	25°56'15
	2716 Nov 19 02:33	30° K M		retrograde	2717 Oct 23 22:16	20° M 45'32	
min. Earth dist.	2716 Nov 19 17:20	29° M 11'39	0.67475 AU	evening set	2717 Oct 30 02:14	18° M 12'02	
asc. node	2716 Nov 20 10:18	28° M 15'24		min. Earth dist.	2717 Nov 03 08:56	13° M 35'11	0.66773 AU
inferior conj	2716 Nov 20 14:57	27° M 59'56	0°04'00	inferior conj	2717 Nov 04 17:36	11° M 52'36	-0°52'59
minimum elong	2716 Nov 20 14:51	28° M 00'16	0°03'57	minimum elong	2717 Nov 04 18:59	11° M 48'14	0°52'23
transit middle	2716 Nov 20 14:51	28° M 00'16	0°03'57	asc. node	2717 Nov 07 07:20	8° M 47'44	
transit begin	2716 Nov 20 12:11	28° M 09'09		morning rise	2717 Nov 10 12:06	6° M 00'19	
transit end	2716 Nov 20 17:32	27° M 51'25		direct	2717 Nov 13 16:45	5° M 01'44	
morning rise	2716 Nov 26 02:39	21° M 58'49		morning max el	2717 Nov 20 14:20	8° M 52'09	18°59'39
direct	2716 Nov 29 18:07	20° M 42'21			2717 Dec 05 19:53	0° A	
morning max el	2716 Dec 07 06:56	24° M 59'37	19°55'45	morning set	2717 Dec 12 22:19	11° A 04'33	
	2716 Dec 11 15:22	0° A		desc. node	2717 Dec 15 03:24	14° A 32'12	
desc. node	2716 Dec 28 06:22	24° A 01'27			2717 Dec 25 00:23	0° Z	
	2717 Jan 01 03:59	0° Z		max. Earth dist.	2717 Dec 27 15:10	4° Z 06'39	1.44981 AU
morning set	2717 Jan 02 14:59	2° Z 14'56					
max. Earth dist.	2717 Jan 13 22:51	20° Z 00'01	1.44062 AU				

superior conj	2717 Dec 29 12:53	7°  06'44	-1°27'34	desc. node	2718 Dec 02 00:25	5°  11'52	
minimum elong	2717 Dec 29 03:52	6°  31'11	1°26'39				
	2718 Jan 12 19:54	0°  ≈		superior conj	2718 Dec 08 14:32	15°  37'39	-0°43'29
evening rise	2718 Jan 13 14:09	1°  ≈14'17		minimum elong	2718 Dec 08 08:59	15°  31'54	0°42'44
	2718 Feb 01 07:56	0°  ✕		max. Earth dist.	2718 Dec 10 10:28	18°  30'20	1.45170 AU
evening max el	2718 Feb 02 23:11	1°  ✕48'05	18°37'06		2718 Dec 17 18:32	0°  ≈	
asc. node	2718 Feb 03 06:38	2°  ✕06'45		evening rise	2718 Dec 24 20:29	11°  ≈05'14	
retrograde	2718 Feb 09 13:39	5°  ✕27'23		greatest brilliancy	2719 Jan 04 20:14	28°  ≈13'28	-0.8m
evening set	2718 Feb 12 17:08	4°  ✕31'35			2719 Jan 06 00:07	0°  ≈	
	2718 Feb 17 13:50	30°  ≈		evening max el	2719 Jan 17 07:51	15°  ≈16'50	19°18'22
inferior conj	2718 Feb 18 11:27	28°  ≈55'41	3°36'06	asc. node	2719 Jan 21 03:42	18°  ≈23'25	
minimum elong	2718 Feb 18 10:12	28°  ≈59'27	3°36'00	retrograde	2719 Jan 24 09:54	19°  ≈20'31	
min. Earth dist.	2718 Feb 20 10:39	26°  ≈34'15	0.64907 AU	evening set	2719 Jan 27 20:08	18°  ≈11'53	
morning rise	2718 Feb 24 02:48	22°  ≈45'57		inferior conj	2719 Feb 02 09:02	12°  ≈19'52	3°17'31
direct	2718 Mar 02 20:38	19°  ≈54'45		minimum elong	2719 Feb 02 06:50	12°  ≈26'58	3°17'08
desc. node	2718 Mar 13 02:35	24°  ≈48'34		min. Earth dist.	2719 Feb 03 17:04	10°  ≈36'34	0.66246 AU
morning max el	2718 Mar 16 05:44	27°  ≈43'27	27°10'46	morning rise	2719 Feb 07 17:17	6°  ≈07'14	
	2718 Mar 18 09:42	0°  ✕		direct	2719 Feb 14 00:49	3°  ≈19'46	
	2718 Apr 08 19:03	0°  Υ		morning max el	2719 Feb 26 15:28	10°  ≈48'25	26°08'24
morning set	2718 Apr 20 18:42	21°  Υ32'34		desc. node	2719 Feb 27 23:37	12°  ≈11'47	
	2718 Apr 25 00:47	0°  ♄			2719 Mar 13 21:58	0°  ✕	
max. Earth dist.	2718 Apr 25 09:09	0°  ♄42'39	1.33829 AU		2719 Apr 01 09:00	0°  Υ	
				morning set	2719 Apr 03 19:42	4°  Υ29'08	
superior conj	2718 Apr 29 00:48	8°  ♄17'24	-0°33'10	max. Earth dist.	2719 Apr 07 18:51	12°  Υ01'26	1.35285 AU
minimum elong	2718 Apr 29 02:29	8°  ♄26'18	0°32'49				
asc. node	2718 May 02 05:58	15°  ♄06'16		superior conj	2719 Apr 12 21:08	22°  Υ10'13	-1°01'26
evening rise	2718 May 06 08:36	23°  ♄48'35		minimum elong	2719 Apr 13 00:18	22°  Υ26'18	1°00'52
	2718 May 09 08:47	0°  ♄			2719 Apr 16 16:28	0°  ♄	
evening max el	2718 May 26 22:59	27°  ♄09'54	21°51'15	asc. node	2719 Apr 19 03:02	5°  ♄03'34	
	2718 May 30 07:03	0°  ♄		evening rise	2719 Apr 20 16:20	8°  ♄16'02	
retrograde	2718 Jun 08 12:28	3°  ♄21'17			2719 May 02 12:24	0°  ♄	
desc. node	2718 Jun 09 01:50	3°  ♄20'34		evening max el	2719 May 09 02:17	8°  ♄10'32	20°28'06
evening set	2718 Jun 11 03:34	3°  ♄05'48		retrograde	2719 May 20 01:47	13°  ♄31'03	
	2718 Jun 18 19:26	30°  ♄		evening set	2719 May 22 02:43	13°  ♄20'45	
min. Earth dist.	2718 Jun 20 02:57	29°  ♄16'21	0.54970 AU	desc. node	2719 May 26 22:51	11°  ♄44'20	
inferior conj	2718 Jun 20 12:53	29°  ♄02'28	-3°11'01	inferior conj	2719 May 31 07:12	9°  ♄22'50	-1°16'26
minimum elong	2718 Jun 20 04:59	29°  ♄13'31	3°08'38	minimum elong	2719 May 31 03:35	9°  ♄28'05	1°15'07
morning rise	2718 Jun 29 07:45	25°  ♄09'25		min. Earth dist.	2719 Jun 01 15:25	8°  ♄36'05	0.55036 AU
direct	2718 Jul 02 11:20	24°  ♄47'33		morning rise	2719 Jun 09 03:29	5°  ♄11'13	
	2718 Jul 14 01:05	0°  ♄		direct	2719 Jun 12 21:34	4°  ♄40'51	
morning max el	2718 Jul 14 13:06	0°  ♄27'18	21°43'55	morning max el	2719 Jun 26 07:11	11°  ♄10'48	23°24'17
asc. node	2718 Jul 29 05:12	21°  ♄20'13			2719 Jul 10 07:18	0°  ♄	
	2718 Aug 02 15:14	0°  ♄		asc. node	2719 Jul 16 02:17	10°  ♄47'44	
morning set	2718 Aug 04 06:58	3°  ♄24'44		morning set	2719 Jul 19 18:21	18°  ♄19'39	
					2719 Jul 25 05:01	0°  ♄	
superior conj	2718 Aug 11 13:25	18°  ♄43'06	1°41'36	superior conj	2719 Jul 26 19:30	3°  ♄27'11	1°31'55
minimum elong	2718 Aug 11 12:06	18°  ♄36'13	1°41'31	minimum elong	2719 Jul 26 17:23	3°  ♄15'51	1°31'41
max. Earth dist.	2718 Aug 15 08:33	26°  ♄32'35	1.34853 AU	max. Earth dist.	2719 Jul 29 06:47	8°  ♄43'03	1.33568 AU
	2718 Aug 17 01:56	0°  ♄		evening rise	2719 Aug 03 09:25	19°  ♄13'45	
evening rise	2718 Aug 19 18:54	5°  ♄17'04			2719 Aug 09 00:15	0°  ♄	
	2718 Sep 02 23:24	0°  ♄		desc. node	2719 Aug 22 22:12	22°  ♄52'00	
desc. node	2718 Sep 05 01:10	3°  ♄12'17			2719 Aug 28 02:40	0°  ♄	
evening max el	2718 Sep 23 23:35	27°  ♄16'44	26°50'26	evening max el	2719 Sep 06 11:22	10°  ♄38'26	27°21'19
	2718 Sep 27 01:10	0°  ♄		retrograde	2719 Sep 19 23:40	17°  ♄56'42	
retrograde	2718 Oct 07 01:49	4°  ♄32'14		evening set	2719 Sep 27 01:42	15°  ♄14'53	
evening set	2718 Oct 13 18:36	1°  ♄50'23		min. Earth dist.	2719 Sep 30 19:19	11°  ♄49'35	0.64329 AU
	2718 Oct 15 18:36	30°  ♄		inferior conj	2719 Oct 03 04:26	9°  ♄17'49	-2°51'22
min. Earth dist.	2718 Oct 17 18:19	27°  ♄49'59	0.65728 AU	minimum elong	2719 Oct 03 09:02	9°  ♄05'34	2°49'44
inferior conj	2718 Oct 19 14:52	25°  ♄40'04	-1°52'12	morning rise	2719 Oct 09 17:29	3°  ♄52'35	
minimum elong	2718 Oct 19 17:55	25° ♄31'09	1°50'58	direct	2719 Oct 12 07:15	3° ♄18'48	
asc. node	2718 Oct 25 04:24	20° ♄18'48		asc. node	2719 Oct 12 01:28	3° ♄19'06	
morning rise	2718 Oct 25 17:56	19° ♄59'42		morning max el	2719 Oct 18 19:27	6° ♄44'57	17°56'39
direct	2718 Oct 28 13:57	19° ♄15'21			2719 Nov 03 07:00	0° ♄	
morning max el	2718 Nov 04 03:23	22° ♄49'06	18°19'41	morning set	2719 Nov 05 00:07	2° ♄54'33	
	2718 Nov 09 21:12	0° ♄					
morning set	2718 Nov 23 09:02	21° ♄18'03		superior conj	2719 Nov 18 05:04	24° ♄50'56	0°04'41
	2718 Nov 28 18:25	0° ♄					

minimum elong	2719 Nov 18 05:36	24° \mathbb{M} 53'07	0°04'36			2720 Oct 08 13:22	0° $\underline{\mathbf{A}}$	
behind sun begin	2719 Nov 17 19:44	24° \mathbb{M} 13'10		morning set		2720 Oct 17 13:50	15° $\underline{\mathbf{A}}$ 36'04	
behind sun end	2719 Nov 18 15:29	25° \mathbb{M} 32'58				2720 Oct 25 18:10	0° \mathbb{M}	
desc. node	2719 Nov 18 21:29	25° \mathbb{M} 57'10						
	2719 Nov 21 10:03	0° \mathbb{A}		superior conj		2720 Oct 28 21:06	5° \mathbb{M} 20'05	0°46'14
max. Earth dist.	2719 Nov 23 05:03	2° \mathbb{A} 50'59	1.44621 AU	minimum elong		2720 Oct 29 01:06	5° \mathbb{M} 36'58	0°45'41
evening rise	2719 Dec 04 09:21	20° \mathbb{A} 17'25		desc. node		2720 Nov 04 18:32	16° \mathbb{M} 44'38	
	2719 Dec 10 17:43	0° \mathbb{B}		max. Earth dist.		2720 Nov 04 20:14	16° \mathbb{M} 51'32	1.43409 AU
greatest brilliancy	2719 Dec 18 01:26	10° \mathbb{B} 59'18	-0.6m	evening rise		2720 Nov 12 18:50	29° \mathbb{M} 26'57	
evening max el	2719 Dec 31 11:40	28° \mathbb{B} 46'53	20°15'02			2720 Nov 13 03:21	0° \mathbb{A}	
	2720 Jan 01 17:36	0° \approx				2720 Dec 03 11:00	0° \mathbb{B}	
retrograde	2720 Jan 08 07:54	3° \approx 23'18		evening max el		2720 Dec 13 09:57	12° \mathbb{B} 18'13	21°24'11
asc. node	2720 Jan 08 00:45	3° \approx 22'49		retrograde		2720 Dec 22 05:27	17° \mathbb{B} 32'23	
evening set	2720 Jan 12 02:24	2° \approx 00'39		asc. node		2720 Dec 24 21:46	16° \mathbb{B} 52'52	
	2720 Jan 14 06:35	30° \mathbb{R} \mathbb{B}		evening set		2720 Dec 26 10:00	15° \mathbb{B} 54'25	
inferior conj	2720 Jan 17 12:08	25° \mathbb{B} 55'24	2°48'13	inferior conj		2720 Dec 31 18:28	9° \mathbb{B} 39'08	2°10'25
minimum elong	2720 Jan 17 09:34	26° \mathbb{B} 04'04	2°47'33	minimum elong		2720 Dec 31 16:02	9° \mathbb{B} 47'31	2°09'37
min. Earth dist.	2720 Jan 18 06:33	24° \mathbb{B} 53'08	0.67175 AU	min. Earth dist.		2721 Jan 01 00:43	9° \mathbb{B} 17'28	0.67716 AU
morning rise	2720 Jan 22 16:33	19° \mathbb{B} 41'49		morning rise		2721 Jan 05 21:53	3° \mathbb{B} 26'31	
direct	2720 Jan 28 10:31	17° \mathbb{B} 08'10		direct		2721 Jan 11 01:04	1° \mathbb{B} 12'56	
morning max el	2720 Feb 09 00:12	24° \mathbb{B} 02'44	24°47'53	morning max el		2721 Jan 21 09:05	7° \mathbb{B} 21'49	23°19'32
	2720 Feb 14 08:08	0° \approx		desc. node		2721 Jan 31 17:42	19° \mathbb{B} 49'29	
desc. node	2720 Feb 14 20:40	0° \approx 38'06				2721 Feb 07 23:51	0° \approx	
	2720 Mar 06 08:07	0° \mathbb{H}		morning set		2721 Feb 25 09:03	27° \approx 14'35	
morning set	2720 Mar 16 02:34	16° \mathbb{H} 28'40				2721 Feb 27 00:08	0° \mathbb{H}	
max. Earth dist.	2720 Mar 19 18:02	23° \mathbb{H} 03'12	1.37153 AU	max. Earth dist.		2721 Mar 01 12:41	4° \mathbb{H} 20'50	1.39283 AU
	2720 Mar 23 11:08	0° \mathbb{Y}						
superior conj	2720 Mar 26 07:16	5° \mathbb{Y} 28'29	-1°27'59	superior conj		2721 Mar 09 03:14	18° \mathbb{H} 02'20	-1°50'05
minimum elong	2720 Mar 26 11:31	5° \mathbb{Y} 49'15	1°27'24	minimum elong		2721 Mar 09 07:30	18° \mathbb{H} 22'11	1°49'42
evening rise	2720 Apr 03 18:41	22° \mathbb{Y} 21'49		evening rise		2721 Mar 15 10:34	0° \mathbb{Y}	
asc. node	2720 Apr 05 00:05	24° \mathbb{Y} 48'08		asc. node		2721 Mar 18 12:49	5° \mathbb{Y} 58'29	
	2720 Apr 07 15:55	0° \mathbb{B}				2721 Mar 22 21:07	14° \mathbb{Y} 14'55	
evening max el	2720 Apr 20 17:33	19° \mathbb{B} 51'15	19°23'03	evening max el		2721 Apr 01 18:58	0° \mathbb{B}	
retrograde	2720 Apr 29 24:00	24° \mathbb{B} 20'40		retrograde		2721 Apr 03 18:59	2° \mathbb{B} 09'54	18°38'02
evening set	2720 May 02 00:59	24° \mathbb{B} 08'33		evening set		2721 Apr 11 15:41	6° \mathbb{B} 00'50	
inferior conj	2720 May 10 13:01	20° \mathbb{B} 01'29	0°39'29	inferior conj		2721 Apr 13 22:33	5° \mathbb{B} 42'28	
minimum elong	2720 May 10 14:39	19° \mathbb{B} 58'48	0°38'54	minimum elong		2721 Apr 21 14:51	1° \mathbb{B} 17'22	2°09'54
desc. node	2720 May 12 19:52	18° \mathbb{B} 31'49				2721 Apr 21 18:41	1° \mathbb{B} 10'00	2°08'49
min. Earth dist.	2720 May 13 06:06	18° \mathbb{B} 15'29	0.56043 AU	min. Earth dist.		2721 Apr 23 07:11	30° \mathbb{R} \mathbb{Y}	
morning rise	2720 May 19 01:25	15° \mathbb{B} 16'37		morning rise		2721 Apr 24 23:53	28° \mathbb{Y} 43'58	0.57774 AU
direct	2720 May 23 18:08	14° \mathbb{B} 26'18		desc. node		2721 Apr 29 11:41	25° \mathbb{Y} 59'11	
morning max el	2720 Jun 06 21:34	21° \mathbb{B} 36'52	25°05'19	direct		2721 Apr 29 16:53	25° \mathbb{Y} 53'12	
	2720 Jun 14 05:19	0° \mathbb{I}				2721 May 05 05:07	24° \mathbb{Y} 37'03	
asc. node	2720 Jul 01 23:20	0° \mathbb{E} 33'28		morning max el		2721 May 17 03:27	0° \mathbb{B}	
	2720 Jul 01 16:53	0° \mathbb{E}				2721 May 19 13:58	2° \mathbb{B} 12'55	26°31'30
morning set	2720 Jul 03 06:09	3° \mathbb{E} 14'59		morning set		2721 Jun 08 10:34	0° \mathbb{I}	
				asc. node		2721 Jun 17 16:48	18° \mathbb{I} 05'35	
superior conj	2720 Jul 10 05:19	18° \mathbb{E} 20'53	1°17'12			2721 Jun 18 20:23	20° \mathbb{I} 31'49	
minimum elong	2720 Jul 10 02:56	18° \mathbb{E} 07'53	1°16'51			2721 Jun 23 04:58	0° \mathbb{E}	
max. Earth dist.	2720 Jul 11 12:43	21° \mathbb{E} 11'59	1.32693 AU	superior conj		2721 Jun 24 16:54	3° \mathbb{E} 17'44	0°58'16
	2720 Jul 15 15:23	0° \mathbb{Q}		minimum elong		2721 Jun 24 14:43	3° \mathbb{E} 05'46	0°57'53
evening rise	2720 Jul 17 09:04	3° \mathbb{Q} 36'27		max. Earth dist.		2721 Jun 24 23:30	3° \mathbb{E} 54'07	1.32224 AU
	2720 Jul 31 18:17	0° \mathbb{P}		evening rise		2721 Jul 01 14:57	18° \mathbb{E} 16'20	
desc. node	2720 Aug 08 19:13	11° \mathbb{P} 53'22				2721 Jul 07 11:11	0° \mathbb{Q}	
evening max el	2720 Aug 18 20:36	23° \mathbb{P} 32'14	27°22'58	desc. node		2721 Jul 26 16:13	0° \mathbb{P} 00'37	
	2720 Aug 28 08:24	0° $\underline{\mathbf{A}}$				2721 Jul 26 16:01	0° \mathbb{P}	
retrograde	2720 Sep 01 15:16	0° $\underline{\mathbf{A}}$ 48'37		evening max el		2721 Aug 01 00:51	5° \mathbb{P} 46'12	26°51'38
	2720 Sep 05 17:47	30° \mathbb{R} \mathbb{P}		retrograde		2721 Aug 14 23:15	12° \mathbb{P} 58'43	
evening set	2720 Sep 08 20:04	28° \mathbb{P} 18'40		evening set		2721 Aug 21 21:18	10° \mathbb{P} 54'01	
min. Earth dist.	2720 Sep 12 10:22	25° \mathbb{P} 22'40	0.62591 AU	min. Earth dist.		2721 Aug 25 15:01	8° \mathbb{P} 15'33	0.60606 AU
inferior conj	2720 Sep 15 07:25	22° \mathbb{P} 38'37	-3°46'58	inferior conj		2721 Aug 28 20:28	5° \mathbb{P} 33'57	-4°33'09
minimum elong	2720 Sep 15 12:56	22° \mathbb{P} 25'26	3°45'26	minimum elong		2721 Aug 29 01:26	5° \mathbb{P} 23'32	4°32'17
morning rise	2720 Sep 22 07:20	17° \mathbb{P} 31'39		morning rise		2721 Sep 05 07:26	0° \mathbb{P} 48'08	
direct	2720 Sep 24 17:31	17° \mathbb{P} 05'03		direct		2721 Sep 07 16:58	0° \mathbb{P} 25'51	
asc. node	2720 Sep 27 22:31	17° \mathbb{P} 52'58		asc. node		2721 Sep 14 19:34	3° \mathbb{P} 50'39	
morning max el	2720 Oct 01 11:29	20° \mathbb{P} 32'01	17°51'29	morning max el		2721 Sep 15 00:19	4° \mathbb{P} 02'02	18°05'19

morning set	2721 Sep 30 20:01	29° \mathbb{M} 04'40		morning set	2722 Sep 14 13:48	13° \mathbb{M} 07'03	
	2721 Oct 01 07:52	0° \mathbb{A}					
superior conj	2721 Oct 10 15:22	17° \mathbb{A} 05'55	1°16'33	superior conj	2722 Sep 23 07:08	29° \mathbb{M} 55'32	1°35'21
minimum elong	2721 Oct 10 19:35	17° \mathbb{A} 24'44	1°16'05	minimum elong	2722 Sep 23 09:55	0° \mathbb{A} 08'36	1°35'08
	2721 Oct 18 02:13	0° \mathbb{M}			2722 Sep 23 08:05	0° \mathbb{A}	
max. Earth dist.	2721 Oct 18 06:34	0° \mathbb{M} 18'14	1.41689 AU	max. Earth dist.	2722 Sep 30 12:28	13° \mathbb{A} 03'45	1.39675 AU
desc. node	2721 Oct 22 15:33	7° \mathbb{M} 30'48		evening rise	2722 Oct 04 14:28	20° \mathbb{A} 05'35	
evening rise	2721 Oct 23 17:23	9° \mathbb{M} 15'02		desc. node	2722 Oct 09 12:34	28° \mathbb{A} 12'14	
	2721 Nov 06 06:10	0° \mathbb{A}			2722 Oct 10 15:29	0° \mathbb{M}	
evening max el	2721 Nov 26 03:09	25° \mathbb{A} 51'36	22°41'30		2722 Oct 31 10:48	0° \mathbb{A}	
	2721 Dec 01 00:54	0° \mathbb{B}		evening max el	2722 Nov 08 16:52	9° \mathbb{A} 28'40	24°01'23
retrograde	2721 Dec 06 00:47	1° \mathbb{B} 44'22		retrograde	2722 Nov 19 16:49	15° \mathbb{A} 56'28	
evening set	2721 Dec 10 17:18	29° \mathbb{A} 49'55		evening set	2722 Nov 24 22:46	13° \mathbb{A} 45'15	
	2721 Dec 10 12:19	30° \mathbb{R} \mathbb{A}		asc. node	2722 Nov 28 15:48	9° \mathbb{A} 39'09	
asc. node	2721 Dec 11 18:47	28° \mathbb{A} 51'28		min. Earth dist.	2722 Nov 29 17:31	8° \mathbb{A} 13'35	0.67734 AU
inferior conj	2721 Dec 16 02:01	23° \mathbb{A} 28'14	1°25'39	inferior conj	2722 Nov 30 09:04	7° \mathbb{A} 20'57	0°35'12
minimum elong	2721 Dec 16 00:11	23° \mathbb{A} 34'33	1°24'56	minimum elong	2722 Nov 30 08:14	7° \mathbb{A} 23'47	0°34'50
min. Earth dist.	2721 Dec 15 21:09	23° \mathbb{A} 45'02	0.67898 AU	morning rise	2722 Dec 05 17:43	1° \mathbb{A} 16'14	
morning rise	2721 Dec 21 06:56	17° \mathbb{A} 18'29			2722 Dec 08 04:58	30° \mathbb{R} \mathbb{M}	
direct	2721 Dec 25 19:23	15° \mathbb{A} 27'41		direct	2722 Dec 09 16:25	29° \mathbb{M} 47'54	
morning max el	2722 Jan 03 21:31	20° \mathbb{A} 47'33	21°52'45		2722 Dec 11 04:59	0° \mathbb{A}	
	2722 Jan 11 16:17	0° \mathbb{B}		morning max el	2722 Dec 17 16:56	4° \mathbb{A} 24'48	20°34'47
desc. node	2722 Jan 18 14:44	9° \mathbb{B} 32'49		desc. node	2723 Jan 05 11:47	29° \mathbb{A} 39'42	
	2722 Feb 01 06:18	0° \mathbb{A}			2723 Jan 05 17:13	0° \mathbb{B}	
morning set	2722 Feb 05 10:25	6° \mathbb{A} 35'59		morning set	2723 Jan 15 11:44	14° \mathbb{B} 53'57	
max. Earth dist.	2722 Feb 11 11:01	16° \mathbb{A} 26'43	1.41414 AU	max. Earth dist.	2723 Jan 24 17:19	29° \mathbb{B} 30'20	1.43247 AU
					2723 Jan 25 00:39	0° \mathbb{A}	
superior conj	2722 Feb 19 04:01	29° \mathbb{A} 39'06	-2°03'49	superior conj	2723 Jan 31 04:43	10° \mathbb{A} 08'10	-2°04'10
minimum elong	2722 Feb 19 06:14	29° \mathbb{A} 48'49	2°03'44	minimum elong	2723 Jan 31 02:10	9° \mathbb{A} 57'31	2°04'06
	2722 Feb 19 08:46	0° \mathbb{H}			2723 Feb 11 17:55	0° \mathbb{H}	
evening rise	2722 Mar 01 19:12	18° \mathbb{H} 57'07		evening rise	2723 Feb 12 09:51	1° \mathbb{H} 10'07	
	2722 Mar 07 20:39	0° \mathbb{Y}		asc. node	2723 Feb 24 15:07	21° \mathbb{H} 46'58	
asc. node	2722 Mar 09 18:07	3° \mathbb{Y} 16'59		evening max el	2723 Mar 01 15:04	28° \mathbb{H} 04'00	18°07'35
evening max el	2722 Mar 18 03:14	14° \mathbb{Y} 56'58	18°13'03		2723 Mar 03 22:17	0° \mathbb{Y}	
retrograde	2722 Mar 25 02:00	18° \mathbb{Y} 26'16		retrograde	2723 Mar 08 03:20	1° \mathbb{Y} 27'16	
evening set	2722 Mar 27 15:06	17° \mathbb{Y} 58'58		evening set	2723 Mar 10 21:55	0° \mathbb{Y} 49'41	
inferior conj	2722 Apr 03 13:41	13° \mathbb{Y} 12'49	3°07'09		2723 Mar 12 10:01	30° \mathbb{R} \mathbb{H}	
minimum elong	2722 Apr 03 16:53	13° \mathbb{Y} 05'42	3°06'33	inferior conj	2723 Mar 17 06:39	25° \mathbb{H} 42'53	3°35'09
min. Earth dist.	2722 Apr 06 22:44	10° \mathbb{Y} 13'50	0.59878 AU	minimum elong	2723 Mar 17 08:00	25° \mathbb{H} 39'24	3°35'02
morning rise	2722 Apr 10 16:21	7° \mathbb{Y} 29'47		min. Earth dist.	2723 Mar 20 05:30	22° \mathbb{H} 43'06	0.62018 AU
desc. node	2722 Apr 16 13:54	5° \mathbb{Y} 32'35		morning rise	2723 Mar 23 16:42	19° \mathbb{H} 44'16	
direct	2722 Apr 17 04:27	5° \mathbb{Y} 31'34		direct	2723 Mar 30 13:52	17° \mathbb{H} 15'25	
morning max el	2722 May 01 12:04	13° \mathbb{Y} 21'10	27°29'13	desc. node	2723 Apr 03 10:56	17° \mathbb{H} 58'03	
	2722 May 14 17:58	0° \mathbb{B}		morning max el	2723 Apr 13 16:28	25° \mathbb{H} 11'45	27°50'32
	2722 May 31 16:24	0° \mathbb{I}			2723 Apr 18 02:20	0° \mathbb{Y}	
morning set	2722 Jun 02 00:34	2° \mathbb{I} 45'39			2723 May 08 04:16	0° \mathbb{B}	
asc. node	2722 Jun 05 17:26	10° \mathbb{I} 37'37		morning set	2723 May 17 03:28	17° \mathbb{B} 08'27	
max. Earth dist.	2722 Jun 08 11:33	16° \mathbb{I} 38'29	1.32141 AU	max. Earth dist.	2723 May 22 20:54	29° \mathbb{B} 11'17	1.32453 AU
					2723 May 23 05:55	0° \mathbb{I}	
superior conj	2722 Jun 09 04:29	18° \mathbb{I} 11'32	0°35'49	asc. node	2723 May 23 14:27	0° \mathbb{I} 46'12	
minimum elong	2722 Jun 09 02:58	18° \mathbb{I} 03'09	0°35'30				
	2722 Jun 14 14:00	0° \mathbb{B}		superior conj	2723 May 24 14:23	2° \mathbb{I} 56'16	0°10'30
evening rise	2722 Jun 16 00:43	3° \mathbb{B} 05'26		minimum elong	2723 May 24 13:53	2° \mathbb{I} 53'35	0°10'24
	2722 Jun 30 10:51	0° \mathbb{Q}		behind sun begin	2723 May 24 09:58	2° \mathbb{I} 32'15	
desc. node	2722 Jul 13 13:12	16° \mathbb{Q} 51'50		behind sun end	2723 May 24 17:48	3° \mathbb{I} 14'55	
evening max el	2722 Jul 13 22:04	17° \mathbb{Q} 13'09	25°48'25	evening rise	2723 May 31 12:19	17° \mathbb{I} 56'28	
retrograde	2722 Jul 27 21:54	24° \mathbb{Q} 21'30			2723 Jun 06 10:42	0° \mathbb{B}	
evening set	2722 Aug 03 00:43	22° \mathbb{Q} 52'36		evening max el	2723 Jun 25 12:46	27° \mathbb{B} 57'34	24°21'27
min. Earth dist.	2722 Aug 07 10:20	20° \mathbb{Q} 14'51	0.58545 AU		2723 Jun 27 19:30	0° \mathbb{Q}	
inferior conj	2722 Aug 10 16:04	17° \mathbb{Q} 54'17	-5°00'20	desc. node	2723 Jun 30 10:13	1° \mathbb{Q} 56'21	
minimum elong	2722 Aug 10 18:00	17° \mathbb{Q} 50'47	5°00'14	retrograde	2723 Jul 09 09:24	4° \mathbb{Q} 57'27	
morning rise	2722 Aug 18 13:30	13° \mathbb{Q} 31'26		evening set	2723 Jul 14 04:19	4° \mathbb{Q} 06'14	
direct	2722 Aug 21 01:20	13° \mathbb{Q} 11'20		min. Earth dist.	2723 Jul 19 23:35	1° \mathbb{Q} 11'19	0.56680 AU
morning max el	2722 Aug 29 06:48	17° \mathbb{Q} 06'33	18°39'28		2723 Jul 21 20:58	30° \mathbb{R} \mathbb{B}	
asc. node	2722 Sep 01 16:37	20° \mathbb{Q} 57'33		inferior conj	2723 Jul 22 15:35	29° \mathbb{B} 30'23	-4°54'47
	2722 Sep 07 13:25	0° \mathbb{M}		minimum elong	2723 Jul 22 12:05	29° \mathbb{B} 35'56	4°54'27

morning rise	2723 Jul 30 22:32	25°☿28'20		min. Earth dist.	2724 Jun 30 11:00	11°☿10'20	0.55355 AU
direct	2723 Aug 02 14:39	25°☿09'10		inferior conj	2724 Jul 01 20:18	10°☿22'37	-4°02'54
morning max el	2723 Aug 12 03:53	29°☿35'39	19°35'03	minimum elong	2724 Jul 01 12:27	10°☿33'53	4°01'05
	2723 Aug 12 14:06	0°♊		morning rise	2724 Jul 10 11:31	6°☿31'02	
asc. node	2723 Aug 19 13:40	8°♊58'19		direct	2724 Jul 13 09:34	6°☿11'16	
morning set	2723 Aug 29 15:33	27°♊32'27		morning max el	2724 Jul 24 13:40	11°☿22'15	20°51'38
	2723 Aug 30 20:52	0°♊		asc. node	2724 Aug 05 10:45	27°☿40'31	
					2724 Aug 06 17:35	0°♊	
superior conj	2723 Sep 06 14:50	13°♊32'31	1°44'05	morning set	2724 Aug 12 22:39	12°♊13'46	
minimum elong	2723 Sep 06 15:47	13°♊37'13	1°44'03				
max. Earth dist.	2723 Sep 12 16:40	25°♊10'54	1.37621 AU	superior conj	2724 Aug 20 09:53	27°♊43'33	1°44'30
	2723 Sep 15 07:54	0°♊		minimum elong	2724 Aug 20 09:16	27°♊40'22	1°44'29
evening rise	2723 Sep 16 10:54	2°♊00'49			2724 Aug 21 12:36	0°♊	
desc. node	2723 Sep 26 09:35	18°♊44'04		max. Earth dist.	2724 Aug 25 00:48	7°♊01'01	1.35766 AU
	2723 Oct 03 19:10	0°♊		evening rise	2724 Aug 29 03:13	14°♊52'47	
evening max el	2723 Oct 22 04:58	23°♊08'13	25°17'14		2724 Sep 06 16:15	0°♊	
	2723 Nov 02 06:15	0°♊		desc. node	2724 Sep 12 06:35	9°♊01'13	
retrograde	2723 Nov 03 04:38	0°♊03'20			2724 Sep 27 11:00	0°♊	
	2723 Nov 04 02:33	30°♊		evening max el	2724 Oct 03 17:05	6°♊47'44	26°21'35
evening set	2723 Nov 09 00:41	27°♊36'46		retrograde	2724 Oct 16 11:35	13°♊59'22	
min. Earth dist.	2723 Nov 13 11:30	22°♊39'38	0.67225 AU	evening set	2724 Oct 22 21:13	11°♊21'20	
inferior conj	2723 Nov 14 13:50	21°♊14'09	-0°19'48	min. Earth dist.	2724 Oct 27 00:47	6°♊59'57	0.66373 AU
minimum elong	2723 Nov 14 14:21	21°♊12'30	0°19'35	inferior conj	2724 Oct 28 14:28	5°♊04'55	-1°17'59
asc. node	2723 Nov 15 12:51	20°♊00'06		minimum elong	2724 Oct 28 16:33	4°♊58'32	1°17'05
morning rise	2723 Nov 20 04:14	15°♊16'43		asc. node	2724 Nov 01 09:56	0°♊51'41	
direct	2723 Nov 23 14:49	14°♊08'25			2724 Nov 02 10:43	30°♊	
morning max el	2723 Nov 30 20:19	18°♊12'48	19°29'59	morning rise	2724 Nov 03 12:27	29°♊17'24	
	2723 Dec 10 02:18	0°♊		direct	2724 Nov 06 13:02	28°♊25'31	
greatest brilliancy	2723 Dec 14 03:25	5°♊57'51	-0.7m		2724 Nov 10 19:05	0°♊	
desc. node	2723 Dec 23 08:51	20°♊03'03		morning max el	2724 Nov 13 06:28	2°♊07'57	18°40'32
morning set	2723 Dec 25 09:34	23°♊11'14			2724 Dec 02 12:45	0°♊	
	2723 Dec 29 18:55	0°♊		morning set	2724 Dec 04 03:30	2°♊33'37	
max. Earth dist.	2724 Jan 07 06:26	13°♊17'58	1.44537 AU	desc. node	2724 Dec 09 05:53	10°♊37'44	
superior conj	2724 Jan 11 03:22	19°♊27'45	-1°46'28	superior conj	2724 Dec 20 07:29	28°♊01'49	-1°10'09
minimum elong	2724 Jan 10 19:28	18°♊56'10	1°45'52	minimum elong	2724 Dec 19 23:11	27°♊29'15	1°09'11
	2724 Jan 17 15:36	0°♊		max. Earth dist.	2724 Dec 19 23:49	27°♊31'42	1.45149 AU
evening rise	2724 Jan 25 04:29	12°♊29'42			2724 Dec 21 13:35	0°♊	
	2724 Feb 04 18:08	0°♊		evening rise	2725 Jan 04 23:54	22°♊51'06	
asc. node	2724 Feb 11 12:08	9°♊35'28			2725 Jan 09 11:00	0°♊	
evening max el	2724 Feb 13 03:36	11°♊24'03	18°21'06	greatest brilliancy	2725 Jan 12 20:30	5°♊25'21	-0.9m
retrograde	2724 Feb 19 15:02	14°♊54'30		evening max el	2725 Jan 26 14:19	24°♊50'52	18°52'42
evening set	2724 Feb 22 15:00	14°♊05'45		asc. node	2725 Jan 28 09:11	26°♊29'45	
inferior conj	2724 Feb 28 13:39	8°♊39'58	3°40'43	retrograde	2725 Feb 02 09:01	28°♊39'37	
minimum elong	2724 Feb 28 13:13	8°♊41'12	3°40'42	evening set	2725 Feb 05 15:08	27°♊38'40	
min. Earth dist.	2724 Mar 01 21:52	6°♊00'08	0.63945 AU	inferior conj	2725 Feb 11 06:51	21°♊55'48	3°29'42
morning rise	2724 Mar 05 10:40	2°♊32'45		minimum elong	2725 Feb 11 05:07	12°♊01'11	3°29'29
	2724 Mar 10 06:06	30°♊		min. Earth dist.	2725 Feb 12 23:34	19°♊49'32	0.65523 AU
direct	2724 Mar 12 07:47	29°♊45'25		morning rise	2725 Feb 16 18:43	15°♊44'23	
	2724 Mar 14 11:14	0°♊		direct	2725 Feb 23 08:44	12°♊52'57	
desc. node	2724 Mar 20 08:00	2°♊46'47		desc. node	2725 Mar 07 05:04	19°♊22'30	
morning max el	2724 Mar 26 01:06	7°♊40'48	27°34'49	morning max el	2725 Mar 08 10:56	20°♊35'39	26°47'02
	2724 Apr 12 06:02	0°♊			2725 Mar 16 13:49	0°♊	
	2724 Apr 29 09:36	0°♊			2725 Apr 05 08:48	0°♊	
morning set	2724 Apr 29 23:05	1°♊06'28		morning set	2725 Apr 13 08:03	14°♊28'44	
max. Earth dist.	2724 May 04 23:27	11°♊19'36	1.33191 AU	max. Earth dist.	2725 Apr 17 15:31	22°♊54'17	1.34387 AU
					2725 Apr 21 03:13	0°♊	
superior conj	2724 May 07 20:48	17°♊26'27	-0°16'52	superior conj	2725 Apr 21 21:32	1°♊34'48	-0°45'13
minimum elong	2724 May 07 21:38	17°♊30'57	0°16'41	minimum elong	2725 Apr 21 23:52	1°♊46'54	0°44'47
asc. node	2724 May 09 11:29	20°♊53'48		asc. node	2725 Apr 26 08:31	10°♊55'46	
	2724 May 13 17:10	0°♊		evening rise	2725 Apr 29 09:40	17°♊19'16	
evening rise	2724 May 14 23:57	2°♊43'24			2725 May 05 18:43	0°♊	
	2724 May 30 01:52	0°♊					
evening max el	2724 Jun 06 02:44	8°♊24'28	22°45'03	evening max el	2725 May 18 23:45	19°♊05'56	21°13'59
desc. node	2724 Jun 16 07:13	14°♊38'37		retrograde	2725 May 30 22:29	24°♊56'32	
retrograde	2724 Jun 19 08:44	15°♊00'06		evening set	2725 Jun 02 05:07	24°♊44'34	
evening set	2724 Jun 22 15:41	14°♊36'19		desc. node	2725 Jun 03 04:15	24°♊32'37	

inferior conj	2725 Jun 11 14:22	20°II45'51	-2°24'53	desc. node	2726 May 21 01:17	2°II01'39	
minimum elong	2725 Jun 11 07:46	20°II55'07	2°22'40	inferior conj	2726 May 22 11:56	1°II09'50	-0°25'23
min. Earth dist.	2725 Jun 11 22:54	20°II33'50	0.54875 AU	minimum elong	2726 May 22 10:46	1°II11'36	0°24'57
morning rise	2725 Jun 20 10:43	16°II46'53			2726 May 24 10:08	30°R8	
direct	2725 Jun 23 19:26	16°II22'22		min. Earth dist.	2726 May 24 12:04	29°857'09	0.55366 AU
morning max el	2725 Jul 06 12:23	22°II24'51	22°25'37	morning rise	2726 May 31 06:03	26°845'17	
	2725 Jul 13 02:59	0°☾		direct	2726 Jun 04 09:22	26°807'44	
asc. node	2725 Jul 23 07:49	16°☾53'23			2726 Jun 14 15:57	0°II	
morning set	2725 Jul 28 08:57	27°☾04'36		morning max el	2726 Jun 18 03:51	2°II56'20	24°08'04
	2725 Jul 29 18:15	0°♂			2726 Jul 06 21:50	0°☾	
				asc. node	2726 Jul 10 04:51	6°☾29'00	
superior conj	2725 Aug 04 12:43	12°♂17'29	1°38'09	morning set	2726 Jul 12 20:39	11°☾59'44	
minimum elong	2725 Aug 04 11:00	12°♂08'23	1°38'01				
max. Earth dist.	2725 Aug 07 17:33	18°♂59'32	1.34255 AU	superior conj	2726 Jul 19 20:35	27°☾05'45	1°26'13
evening rise	2725 Aug 12 10:49	28°♂28'58		minimum elong	2726 Jul 19 18:18	26°☾53'22	1°25'56
	2725 Aug 13 05:34	0°♍			2726 Jul 21 04:52	0°♂	
desc. node	2725 Aug 30 03:36	28°♍56'55		max. Earth dist.	2726 Jul 21 19:26	1°♂18'16	1.33149 AU
	2725 Aug 30 20:35	0°♂		evening rise	2726 Jul 27 05:35	12°♂37'33	
evening max el	2725 Sep 16 05:32	20°♂19'54	27°06'54		2726 Aug 05 10:17	0°♍	
retrograde	2725 Sep 29 12:57	27°♂37'37		desc. node	2726 Aug 17 00:37	18°♍21'35	
evening set	2725 Oct 06 10:02	24°♂54'49			2726 Aug 26 06:05	0°♂	
min. Earth dist.	2725 Oct 10 07:03	21°♂09'25	0.65170 AU	evening max el	2726 Aug 29 16:44	3°♂31'53	27°26'04
inferior conj	2725 Oct 12 08:49	18°♂49'24	-2°17'29	retrograde	2726 Sep 12 08:01	10°♂48'56	
minimum elong	2725 Oct 12 12:34	18°♂38'51	2°16'02	evening set	2726 Sep 19 12:09	8°♂10'57	
morning rise	2725 Oct 18 15:58	13°♂14'49		min. Earth dist.	2726 Sep 23 04:01	4°♂58'58	0.63623 AU
asc. node	2725 Oct 19 07:01	12°♂58'47		inferior conj	2726 Sep 25 18:16	2°♂20'54	-3°15'41
direct	2725 Oct 21 08:57	12°♂35'27		minimum elong	2726 Sep 25 23:22	2°♂07'53	3°14'01
morning max el	2725 Oct 27 21:08	16°♂05'15	18°07'41		2726 Sep 28 03:58	30°R♍	
	2725 Nov 06 22:41	0°♌		morning rise	2726 Oct 02 11:49	27°♍02'46	
morning set	2725 Nov 15 02:53	13°♌24'44		direct	2726 Oct 04 23:49	26°♍32'18	
	2725 Nov 25 06:54	0°♎		asc. node	2726 Oct 06 04:04	26°♍39'11	
desc. node	2725 Nov 26 02:54	1°♎20'16		morning max el	2726 Oct 11 13:28	29°♍57'44	17°52'14
					2726 Oct 11 14:23	0°♂	
superior conj	2725 Nov 29 12:20	6°♎44'56	-0°22'49	morning set	2726 Oct 28 04:28	25°♂31'45	
minimum elong	2725 Nov 29 09:26	6°♎33'27	0°22'25		2726 Oct 30 18:31	0°♌	
max. Earth dist.	2725 Dec 02 19:02	11°♎55'57	1.45026 AU				
	2725 Dec 14 08:50	0°♏		superior conj	2726 Nov 09 12:55	16°♌28'18	0°23'31
evening rise	2725 Dec 15 21:36	2°♏22'34		minimum elong	2726 Nov 09 15:23	16°♌38'25	0°23'10
greatest brilliancy	2725 Dec 28 20:32	22°♏15'46	-0.7m	desc. node	2726 Nov 12 23:56	22°♌06'46	
	2726 Jan 03 04:05	0°♐		max. Earth dist.	2726 Nov 15 12:58	26°♌12'02	1.44184 AU
evening max el	2726 Jan 09 21:12	8°♐21'07	19°40'48		2726 Nov 17 22:20	0°♎	
asc. node	2726 Jan 15 06:15	12°♐15'43		evening rise	2726 Nov 25 07:02	11°♎29'03	
retrograde	2726 Jan 17 06:13	12°♐37'31			2726 Dec 07 13:13	0°♏	
evening set	2726 Jan 20 19:46	11°♐23'08		evening max el	2726 Dec 23 22:46	21°♏52'04	20°43'07
inferior conj	2726 Jan 26 07:06	5°♐25'25	3°06'15	retrograde	2727 Jan 01 04:09	26°♏43'35	
minimum elong	2726 Jan 26 04:41	5°♐33'24	3°05'43	asc. node	2727 Jan 02 03:18	26°♏38'25	
min. Earth dist.	2726 Jan 27 09:13	3°♐59'18	0.66696 AU	evening set	2727 Jan 05 02:48	25°♏14'24	
	2726 Jan 30 17:32	30°R♏		inferior conj	2727 Jan 10 11:48	19°♏04'32	2°33'06
morning rise	2726 Jan 31 13:22	29°♏12'18		minimum elong	2727 Jan 10 09:14	19°♏13'18	2°32'21
direct	2726 Feb 06 15:33	26°♏29'26		min. Earth dist.	2727 Jan 11 00:50	18°♏19'56	0.67461 AU
	2726 Feb 14 16:24	0°♐		morning rise	2727 Jan 15 15:30	12°♏51'25	
morning max el	2726 Feb 18 20:02	3°♐44'56	25°35'39	direct	2727 Jan 21 03:19	10°♏25'52	
desc. node	2726 Feb 22 02:06	7°♐15'13		morning max el	2727 Feb 01 04:26	17°♏01'06	24°10'37
	2726 Mar 10 21:21	0°♑		desc. node	2727 Feb 08 23:08	26°♏02'20	
morning set	2726 Mar 27 01:59	27°♑02'39			2727 Feb 11 23:33	0°♐	
	2726 Mar 28 16:34	0°♒			2727 Mar 03 22:03	0°♑	
max. Earth dist.	2726 Mar 30 20:01	4°♒01'19	1.36040 AU	morning set	2727 Mar 08 23:11	8°♑32'21	
				max. Earth dist.	2727 Mar 12 16:36	15°♑06'36	1.38049 AU
superior conj	2726 Apr 05 13:57	15°♒14'07	-1°13'03				
minimum elong	2726 Apr 05 17:39	15°♒32'39	1°12'27	superior conj	2727 Mar 19 18:34	28°♑14'49	-1°38'07
	2726 Apr 12 20:07	0°♓		minimum elong	2727 Mar 19 23:01	28°♑36'05	1°37'35
asc. node	2726 Apr 13 05:33	0°♓48'06			2727 Mar 20 16:29	0°♒	
evening rise	2726 Apr 13 15:23	1°♓38'05		evening rise	2727 Mar 28 14:35	15°♒32'33	
	2726 Apr 30 22:51	0°II		asc. node	2727 Mar 31 02:36	20°♒25'55	
evening max el	2726 May 01 08:16	0°II23'16	19°58'00		2727 Apr 05 06:45	0°♓	
retrograde	2726 May 11 13:34	5°II20'26		evening max el	2727 Apr 14 04:08	12°♓20'41	19°01'21
evening set	2726 May 13 13:30	5°II09'55		retrograde	2727 Apr 22 18:48	16°♓31'57	

evening set	2727 Apr 24 22:07	16°♄17'31		inferior conj	2728 Apr 13 12:41	23°♃36'34	2°38'12
inferior conj	2727 May 03 01:41	12°♄03'00	1°21'52	minimum elong	2728 Apr 13 16:30	23°♃28'45	2°37'15
minimum elong	2727 May 03 04:41	11°♄57'44	1°20'52	min. Earth dist.	2728 Apr 16 23:17	20°♃49'09	0.58638 AU
min. Earth dist.	2727 May 06 03:33	9°♄55'02	0.56712 AU	morning rise	2728 Apr 21 01:45	18°♃06'12	
desc. node	2727 May 07 22:17	8°♄46'58		desc. node	2728 Apr 23 19:19	16°♃58'38	
morning rise	2727 May 11 08:10	7°♄03'33		direct	2728 Apr 27 03:55	16°♃28'52	
direct	2727 May 16 11:35	6°♄01'08		morning max el	2728 May 11 13:17	24°♃12'14	27°00'18
morning max el	2727 May 30 18:26	13°♄23'22	25°44'51		2728 May 16 19:45	0°♄	
	2727 Jun 12 19:33	0°♄			2728 Jun 04 22:00	0°♄	
morning set	2727 Jun 27 08:10	26°♄54'14		morning set	2728 Jun 10 17:49	11°♄41'30	
asc. node	2727 Jun 27 01:52	26°♄21'02		asc. node	2728 Jun 12 22:53	16°♄23'16	
	2727 Jun 28 19:04	0°♄					
superior conj	2727 Jul 04 07:22	12°♄01'46	1°09'38	superior conj	2728 Jun 17 19:09	26°♄58'13	0°49'08
minimum elong	2727 Jul 04 05:01	11°♄48'52	1°09'16	minimum elong	2728 Jun 17 17:12	26°♄47'30	0°48'46
max. Earth dist.	2727 Jul 05 04:06	13°♄55'26	1.32445 AU	max. Earth dist.	2728 Jun 17 15:53	26°♄40'16	1.32136 AU
evening rise	2727 Jul 11 08:13	27°♄08'52		evening rise	2728 Jun 19 04:09	0°♄	
	2727 Jul 12 17:31	0°♄			2728 Jun 24 15:59	11°♄53'28	
	2727 Jul 29 19:16	0°♄			2728 Jul 03 21:46	0°♄	
desc. node	2727 Aug 03 21:38	7°♄02'31		desc. node	2728 Jul 20 18:38	24°♄40'45	
evening max el	2727 Aug 12 00:10	16°♄10'16	27°13'45	evening max el	2728 Jul 24 01:16	28°♄03'34	26°28'16
retrograde	2727 Aug 25 20:14	23°♄24'35		retrograde	2728 Jul 26 05:29	0°♄	
evening set	2727 Sep 01 23:48	21°♄03'36		evening set	2728 Aug 07 00:40	5°♄15'14	
min. Earth dist.	2727 Sep 05 14:22	18°♄17'10	0.61771 AU	min. Earth dist.	2728 Aug 13 16:17	3°♄24'25	
inferior conj	2727 Sep 08 15:44	15°♄32'07	-4°08'10		2728 Aug 17 14:36	0°♄48'44	0.59723 AU
minimum elong	2727 Sep 08 21:16	15°♄19'37	4°06'52	inferior conj	2728 Aug 18 15:55	30°♄	
morning rise	2727 Sep 15 20:23	10°♄33'57		minimum elong	2728 Aug 20 21:43	28°♄13'20	-4°47'45
direct	2727 Sep 18 06:04	10°♄09'23		morning rise	2728 Aug 21 01:44	28°♄05'22	4°47'15
asc. node	2727 Sep 23 01:05	11°♄50'36		direct	2728 Aug 30 23:26	23°♄37'37	
morning max el	2727 Sep 25 04:32	13°♄38'47	17°55'03	morning max el	2728 Aug 28 13:18	23°♄16'34	
	2727 Oct 06 07:29	0°♄		asc. node	2728 Sep 07 15:06	26°♄59'21	18°17'21
morning set	2727 Oct 11 01:51	8°♄35'24			2728 Sep 08 22:07	28°♄19'31	
					2728 Sep 10 08:07	0°♄	
superior conj	2727 Oct 21 16:33	27°♄31'36	1°00'32	morning set	2728 Sep 23 13:26	22°♄19'19	
minimum elong	2727 Oct 21 20:57	27°♄50'37	0°59'59		2728 Sep 27 14:28	0°♄	
	2727 Oct 23 03:03	0°♄		superior conj	2728 Oct 02 20:39	9°♄46'36	1°25'52
max. Earth dist.	2727 Oct 29 02:37	10°♄01'25	1.42730 AU	minimum elong	2728 Oct 03 00:22	10°♄03'34	1°25'30
desc. node	2727 Oct 30 20:58	12°♄54'09		max. Earth dist.	2728 Oct 10 10:25	23°♄09'10	1.40847 AU
evening rise	2727 Nov 04 20:20	20°♄50'38			2728 Oct 14 12:24	0°♄	
	2727 Nov 10 18:25	0°♄		evening rise	2728 Oct 15 03:46	1°♄03'10	
	2727 Dec 02 00:27	0°♄		desc. node	2728 Oct 16 17:59	3°♄38'44	
evening max el	2727 Dec 06 18:42	5°♄23'51	21°56'15		2728 Nov 03 04:56	0°♄	
retrograde	2727 Dec 16 01:00	10°♄54'39		evening max el	2728 Nov 18 10:01	18°♄58'12	23°15'33
evening set	2727 Dec 20 10:30	9°♄09'31		retrograde	2728 Nov 28 19:15	25°♄07'25	
asc. node	2727 Dec 20 00:20	9°♄29'05		evening set	2728 Dec 03 17:15	23°♄05'46	
inferior conj	2727 Dec 25 18:52	2°♄50'50	1°52'12	asc. node	2728 Dec 05 21:21	20°♄54'04	
minimum elong	2727 Dec 25 16:39	2°♄58'32	1°51'23	min. Earth dist.	2728 Dec 08 17:00	17°♄14'42	0.67861 AU
min. Earth dist.	2727 Dec 25 20:12	2°♄46'12	0.67840 AU	inferior conj	2728 Dec 09 02:27	16°♄42'11	1°04'53
	2727 Dec 27 21:19	30°♄		minimum elong	2728 Dec 09 01:00	16°♄47'11	1°04'18
morning rise	2727 Dec 30 22:39	26°♄39'19		morning rise	2728 Dec 14 08:41	10°♄34'10	
direct	2728 Jan 04 19:24	24°♄35'35		direct	2728 Dec 18 15:00	8°♄53'14	
	2728 Jan 14 05:12	0°♄		morning max el	2728 Dec 27 05:48	13°♄54'23	21°18'14
morning max el	2728 Jan 14 14:34	0°♄23'21	22°41'56		2729 Jan 08 23:22	0°♄	
desc. node	2728 Jan 26 20:10	15°♄28'36		desc. node	2729 Jan 12 17:14	5°♄23'14	
	2728 Feb 05 20:32	0°♄		morning set	2729 Jan 27 07:23	27°♄33'29	
morning set	2728 Feb 17 17:35	18°♄42'52			2729 Jan 28 20:25	0°♄	
max. Earth dist.	2728 Feb 22 12:24	26°♄43'49	1.40209 AU	max. Earth dist.	2729 Feb 03 13:33	9°♄13'40	1.42239 AU
	2728 Feb 24 10:00	0°♄					
superior conj	2728 Mar 01 07:00	10°♄25'45	-1°57'13	superior conj	2729 Feb 10 22:10	21°♄35'34	-2°05'54
minimum elong	2728 Mar 01 10:43	10°♄42'38	1°56'58	minimum elong	2729 Feb 10 22:40	21°♄37'43	2°05'54
evening rise	2728 Mar 11 04:12	28°♄54'27			2729 Feb 15 17:42	0°♄	
	2728 Mar 11 18:02	0°♄		evening rise	2729 Feb 22 04:31	11°♄35'35	
asc. node	2728 Mar 16 23:37	9°♄43'16		asc. node	2729 Mar 03 20:39	28°♄33'35	
evening max el	2728 Mar 27 08:47	24°♄52'17	18°24'55		2729 Mar 04 18:31	0°♄	
retrograde	2728 Apr 03 18:55	28°♄32'26		evening max el	2729 Mar 10 19:01	7°♄49'48	18°08'22
evening set	2728 Apr 06 04:21	28°♄10'38		retrograde	2729 Mar 17 12:09	11°♄14'49	
				evening set	2729 Mar 20 03:33	10°♄43'25	

inferior conj	2729 Mar 26 19:49	5°♈48'40	3°22'08	asc. node	2730 Feb 18 17:42	16°♋47'38	
minimum elong	2729 Mar 26 22:17	5°♈42'49	3°21'48	evening max el	2730 Feb 22 07:35	21°♋03'49	18°11'07
min. Earth dist.	2729 Mar 30 01:33	2°♈46'04	0.60799 AU	retrograde	2730 Feb 28 18:17	24°♋28'16	
morning rise	2729 Apr 02 15:01	29°♋57'49		evening set	2730 Mar 03 15:12	23°♋45'59	
	2729 Apr 02 13:41	30°♋		inferior conj	2730 Mar 09 19:14	18°♋31'07	3°39'47
direct	2729 Apr 09 08:14	27°♋45'02		minimum elong	2730 Mar 09 19:48	18°♋29'38	3°39'47
desc. node	2729 Apr 10 16:21	27°♋50'04		min. Earth dist.	2730 Mar 12 12:15	15°♋37'39	0.62881 AU
	2729 Apr 16 13:14	0°♈		morning rise	2730 Mar 15 23:19	12°♋28'27	
morning max el	2729 Apr 23 14:16	5°♈39'12	27°42'48	direct	2730 Mar 22 21:41	9°♋49'48	
	2729 May 11 19:32	0°♋		desc. node	2730 Mar 28 13:25	11°♋20'43	
morning set	2729 May 25 23:48	26°♋15'30		morning max el	2730 Apr 05 20:34	17°♋46'28	27°48'03
	2729 May 27 18:50	0°♊			2730 Apr 16 01:58	0°♈	
asc. node	2729 May 30 19:56	6°♊31'09			2730 May 04 14:28	0°♋	
max. Earth dist.	2729 Jun 01 03:05	9°♊20'40	1.32222 AU	morning set	2730 May 09 23:56	10°♋28'47	
				max. Earth dist.	2730 May 15 09:54	21°♋43'58	1.32717 AU
superior conj	2729 Jun 02 06:15	11°♊49'24	0°25'24				
minimum elong	2729 Jun 02 05:08	11°♊43'12	0°25'09	superior conj	2730 May 17 14:57	26°♋29'03	-0°00'54
evening rise	2729 Jun 09 02:47	26°♊44'23		minimum elong	2730 May 17 14:59	26°♋29'16	0°00'54
	2729 Jun 10 15:59	0°♌		behind sun begin	2730 May 17 09:46	26°♋01'04	
	2729 Jun 27 21:55	0°♌		behind sun end	2730 May 17 20:12	26°♋57'30	
evening max el	2729 Jul 05 19:19	9°♌10'41	25°13'33	asc. node	2730 May 17 17:00	26°♋40'08	
desc. node	2729 Jul 07 15:38	10°♌50'52			2730 May 19 05:52	0°♊	
retrograde	2729 Jul 19 19:10	16°♌17'00		evening rise	2730 May 24 14:38	11°♊34'44	
evening set	2729 Jul 25 09:24	15°♌04'49			2730 Jun 03 00:18	0°♌	
min. Earth dist.	2729 Jul 30 07:10	12°♌21'25	0.57706 AU	evening max el	2730 Jun 17 09:04	19°♌45'00	23°40'41
inferior conj	2729 Aug 02 08:56	10°♌15'36	-5°02'56	desc. node	2730 Jun 24 12:38	24°♌59'45	
minimum elong	2729 Aug 02 08:44	10°♌15'57	5°02'55	retrograde	2730 Jul 01 01:15	26°♌36'16	
morning rise	2729 Aug 10 10:33	6°♌02'07		evening set	2730 Jul 05 04:24	25°♌58'49	
direct	2729 Aug 12 23:47	5°♌42'41		min. Earth dist.	2730 Jul 11 19:22	22°♌52'12	0.56033 AU
morning max el	2729 Aug 21 17:57	9°♌50'04	19°00'27	inferior conj	2730 Jul 14 00:02	21°♌33'03	-4°38'56
asc. node	2729 Aug 26 19:10	15°♌50'59		minimum elong	2730 Jul 13 18:14	21°♌41'48	4°38'03
	2729 Sep 04 02:20	0°♍		morning rise	2730 Jul 22 10:37	17°♌36'50	
morning set	2729 Sep 07 10:57	6°♍32'09		direct	2730 Jul 25 05:08	17°♌17'32	
				morning max el	2730 Aug 04 10:18	22°♌01'49	20°05'07
superior conj	2729 Sep 15 19:46	22°♍57'45	1°40'11		2730 Aug 11 00:21	0°♌	
minimum elong	2729 Sep 15 21:46	23°♍07'23	1°40'03	asc. node	2730 Aug 13 16:14	4°♌11'11	
	2729 Sep 19 13:13	0°♎		morning set	2730 Aug 22 15:19	21°♌05'50	
max. Earth dist.	2729 Sep 22 14:30	5°♎34'30	1.38788 AU		2730 Aug 26 23:47	0°♍	
evening rise	2729 Sep 26 11:01	12°♎21'48					
desc. node	2729 Oct 03 15:00	24°♎16'35		superior conj	2730 Aug 30 08:49	6°♍51'03	1°45'11
	2729 Oct 07 06:19	0°♏		minimum elong	2730 Aug 30 09:03	6°♍52'14	1°45'10
	2729 Oct 29 10:42	0°♏		max. Earth dist.	2730 Sep 04 20:03	17°♍33'12	1.36801 AU
evening max el	2729 Oct 31 22:49	2°♏36'33	24°34'45	evening rise	2730 Sep 08 16:33	24°♍43'23	
retrograde	2729 Nov 12 09:38	9°♏17'28			2730 Sep 11 15:27	0°♎	
evening set	2729 Nov 17 21:24	6°♏59'43		desc. node	2730 Sep 20 12:00	14°♎43'25	
min. Earth dist.	2729 Nov 22 12:45	1°♏42'18	0.67549 AU		2730 Sep 30 20:41	0°♏	
asc. node	2729 Nov 22 18:24	1°♏23'31		evening max el	2730 Oct 14 11:05	16°♏18'06	25°46'34
inferior conj	2729 Nov 23 08:46	0°♏35'32	0°12'20	retrograde	2730 Oct 26 19:18	23°♏20'50	
minimum elong	2729 Nov 23 08:27	0°♏36'33	0°12'13	evening set	2730 Nov 01 21:16	20°♏49'01	
transit middle	2729 Nov 23 08:27	0°♏36'33	0°12'13	min. Earth dist.	2730 Nov 06 05:03	16°♏06'54	0.66905 AU
transit begin	2729 Nov 23 06:39	0°♏42'36		inferior conj	2730 Nov 07 12:02	14°♏28'43	-0°44'10
transit end	2729 Nov 23 10:16	0°♏30'31		minimum elong	2730 Nov 07 13:11	14°♏25'03	0°43'40
	2729 Nov 23 19:26	30°♏		asc. node	2730 Nov 09 15:27	11°♏51'21	
morning rise	2729 Nov 28 19:35	24°♏33'20		morning rise	2730 Nov 13 05:25	8°♏35'02	
direct	2729 Dec 02 12:54	23°♏13'49		direct	2730 Nov 16 11:35	7°♏33'59	
morning max el	2729 Dec 10 04:29	27°♏35'48	20°05'25	morning max el	2730 Nov 23 10:55	11°♏27'30	19°07'00
	2729 Dec 12 09:41	0°♏			2730 Dec 07 01:53	0°♏	
desc. node	2729 Dec 30 14:16	25°♏37'43		morning set	2730 Dec 16 08:04	14°♏20'32	
	2730 Jan 02 11:08	0°♐		desc. node	2730 Dec 17 11:19	16°♏06'45	
morning set	2730 Jan 06 03:53	5°♐41'05			2730 Dec 26 08:38	0°♐	
max. Earth dist.	2730 Jan 16 22:35	22°♐36'35	1.43868 AU	max. Earth dist.	2730 Dec 30 14:21	6°♐39'29	1.44891 AU
	2730 Jan 21 12:29	0°♑					
superior conj	2730 Jan 22 11:40	1°♑34'37	-1°59'04	superior conj	2731 Jan 02 00:45	10°♐30'00	-1°33'06
minimum elong	2730 Jan 22 06:37	1°♑14'00	1°58'50	minimum elong	2731 Jan 01 15:48	9°♐54'37	1°32'14
					2731 Jan 14 04:10	0°♑	
evening rise	2730 Feb 04 11:07	23°♑26'24		evening rise	2731 Jan 16 20:05	4°♑21'24	
	2730 Feb 08 06:23	0°♒			2731 Feb 02 02:06	0°♒	

asc. node	2731 Feb 05 14:45	4° H 14'54			2731 Dec 19 02:40	0° Z	
evening max el	2731 Feb 05 19:42	4° H 27'38	18°32'24	evening rise	2731 Dec 28 05:41	14° Z 20'01	
retrograde	2731 Feb 12 09:06	8° H 04'17			2732 Jan 07 05:13	0° \approx	
evening set	2731 Feb 15 11:40	7° H 10'17		greatest brilliancy	2732 Jan 07 11:50	0° \approx 25'35	-0.8m
inferior conj	2731 Feb 21 07:00	1° H 36'49	3°37'45	evening max el	2732 Jan 20 04:55	17° \approx 55'58	19°11'14
minimum elong	2731 Feb 21 05:57	1° H 39'57	3°37'41	asc. node	2732 Jan 23 11:47	20° \approx 42'04	
	2731 Feb 22 15:32	30° $\text{R}\approx$		retrograde	2732 Jan 27 04:54	21° \approx 55'40	
min. Earth dist.	2731 Feb 23 08:29	29° \approx 10'24	0.64669 AU	evening set	2732 Jan 30 14:00	20° \approx 49'05	
morning rise	2731 Feb 26 23:42	25° \approx 27'39		inferior conj	2732 Feb 05 03:32	14° \approx 59'18	3°21'07
direct	2731 Mar 05 18:33	22° \approx 37'08		minimum elong	2732 Feb 05 01:27	15° \approx 06'00	3°20'45
desc. node	2731 Mar 15 10:29	26° \approx 59'10		min. Earth dist.	2732 Feb 06 13:47	13° \approx 09'52	0.66066 AU
	2731 Mar 18 18:48	0° H		morning rise	2732 Feb 10 12:36	8° \approx 46'49	
morning max el	2731 Mar 19 05:58	0° H 27'46	27°17'59	direct	2732 Feb 16 21:52	5° \approx 58'01	
	2731 Apr 10 02:16	0° Y		morning max el	2732 Feb 29 15:53	13° \approx 31'03	26°19'10
morning set	2731 Apr 23 15:29	24° Y 12'57		desc. node	2732 Mar 01 07:33	14° \approx 11'07	
	2731 Apr 26 13:27	0° B			2732 Mar 14 00:39	0° H	
max. Earth dist.	2731 Apr 28 08:32	3° B 39'24	1.33649 AU		2732 Apr 01 19:09	0° Y	
				morning set	2732 Apr 05 18:45	7° Y 17'09	
superior conj	2731 May 01 19:15	10° B 51'00	-0°28'50	max. Earth dist.	2732 Apr 09 20:00	15° Y 02'54	1.35035 AU
minimum elong	2731 May 01 20:43	10° B 58'45	0°28'32				
asc. node	2731 May 04 14:03	16° B 46'04		superior conj	2732 Apr 14 16:50	24° Y 48'27	-0°57'12
evening rise	2731 May 09 01:44	26° B 18'13		minimum elong	2732 Apr 14 19:47	25° Y 03'33	0°56'39
	2731 May 10 20:24	0° II			2732 Apr 17 05:16	0° B	
	2731 May 29 19:14	0° E		asc. node	2732 Apr 20 11:05	6° B 45'01	
evening max el	2731 May 30 01:11	0° E 14'34	22°04'52	evening rise	2732 Apr 22 10:04	10° B 48'28	
desc. node	2731 Jun 11 09:40	6° E 32'35			2732 May 02 14:08	0° II	
retrograde	2731 Jun 11 19:23	6° E 32'57		evening max el	2732 May 11 02:43	11° II 09'57	20°39'27
evening set	2731 Jun 14 14:10	6° E 15'44		retrograde	2732 May 22 08:34	16° II 38'37	
inferior conj	2731 Jun 23 22:44	2° E 10'03	-3°26'03	evening set	2732 May 24 10:22	16° II 28'09	
minimum elong	2731 Jun 23 14:38	2° E 21'25	3°23'45	desc. node	2732 May 28 06:42	15° II 19'05	
min. Earth dist.	2731 Jun 23 06:26	2° E 32'54	0.55039 AU	inferior conj	2732 Jun 02 16:32	12° II 30'27	-1°34'49
	2731 Jun 28 00:27	30° RII		minimum elong	2732 Jun 02 12:04	12° II 36'53	1°33'12
morning rise	2731 Jul 02 16:48	28° II 18'12		min. Earth dist.	2732 Jun 03 18:47	11° II 52'45	0.54963 AU
direct	2731 Jul 05 18:47	27° II 57'03		morning rise	2732 Jun 11 13:06	8° II 22'37	
	2731 Jul 12 23:40	0° E		direct	2732 Jun 15 04:22	7° II 54'08	
morning max el	2731 Jul 17 15:03	3° E 29'01	21°29'55	morning max el	2732 Jun 28 10:16	14° II 17'19	23°08'54
asc. node	2731 Jul 31 13:18	23° E 07'49			2732 Jul 10 12:47	0° E	
	2731 Aug 04 02:55	0° O		asc. node	2732 Jul 17 10:21	12° E 31'43	
morning set	2731 Aug 07 00:03	5° O 52'34		morning set	2732 Jul 21 11:09	20° E 46'29	
					2732 Jul 25 18:49	0° O	
superior conj	2731 Aug 14 07:35	21° O 13'23	1°42'34				
minimum elong	2731 Aug 14 06:26	21° O 07'24	1°42'30	superior conj	2732 Jul 28 12:53	5° O 55'04	1°33'43
max. Earth dist.	2731 Aug 18 07:53	29° O 26'25	1.35077 AU	minimum elong	2732 Jul 28 10:52	5° O 44'15	1°33'32
	2731 Aug 18 14:35	0° M		max. Earth dist.	2732 Jul 31 04:34	11° O 32'55	1.33733 AU
evening rise	2731 Aug 22 15:55	7° M 55'53		evening rise	2732 Aug 05 04:44	21° O 47'25	
	2731 Sep 04 06:12	0° A			2732 Aug 09 11:01	0° M	
desc. node	2731 Sep 07 09:01	4° A 52'49		desc. node	2732 Aug 24 06:01	24° M 36'55	
evening max el	2731 Sep 26 23:24	29° A 55'48	26°43'33		2732 Aug 28 01:39	0° A	
	2731 Sep 27 01:09	0° M		evening max el	2732 Sep 08 11:19	13° A 20'16	27°18'25
retrograde	2731 Oct 09 23:44	7° M 10'36		retrograde	2732 Sep 21 22:36	20° A 38'50	
evening set	2731 Oct 16 14:48	4° M 29'24		evening set	2732 Sep 28 23:28	17° A 56'20	
min. Earth dist.	2731 Oct 20 15:28	0° M 23'40	0.65911 AU	min. Earth dist.	2732 Oct 02 17:52	14° A 26'00	0.64559 AU
	2731 Oct 20 23:35	30° RA		inferior conj	2732 Oct 05 01:07	11° A 56'54	-2°42'31
inferior conj	2731 Oct 22 10:15	28° A 17'22	-1°43'09	minimum elong	2732 Oct 05 05:30	11° A 45'02	2°40'56
minimum elong	2731 Oct 22 13:03	28° A 09'05	1°42'00	morning rise	2732 Oct 11 12:37	6° A 29'12	
asc. node	2731 Oct 27 12:30	23° A 11'08		asc. node	2732 Oct 13 09:34	5° A 56'56	
morning rise	2731 Oct 28 11:58	22° A 35'09		direct	2732 Oct 14 03:05	5° A 54'08	
direct	2731 Oct 31 09:06	21° A 49'01		morning max el	2732 Oct 20 15:08	9° A 21'05	17°58'55
morning max el	2731 Nov 06 23:20	25° A 24'35	18°24'31		2732 Nov 03 15:23	0° M	
	2731 Nov 10 20:36	0° M		morning set	2732 Nov 07 01:29	5° M 45'57	
morning set	2731 Nov 26 14:20	24° M 20'49		desc. node	2732 Nov 20 05:19	27° M 29'53	
	2731 Nov 30 02:46	0° X					
desc. node	2731 Dec 04 08:20	6° X 45'22		superior conj	2732 Nov 20 13:49	28° M 04'04	-0°02'25
				minimum elong	2732 Nov 20 13:31	28° M 02'52	0°02'23
superior conj	2731 Dec 12 02:20	18° X 59'52	-0°50'42	behind sun begin	2732 Nov 20 03:12	27° M 21'22	
minimum elong	2731 Dec 11 19:55	18° X 34'38	0°49'53	behind sun end	2732 Nov 20 23:50	28° M 44'19	
max. Earth dist.	2731 Dec 13 09:14	21° X 01'15	1.45189 AU		2732 Nov 21 18:44	0° X	

max. Earth dist.	2732 Nov 25 03:55	5°♂22'51	1.44748 AU	minimum elong	2733 Nov 01 05:31	8°♂37'10	0°40'05
evening rise	2732 Dec 06 20:23	23°♂35'57		desc. node	2733 Nov 07 02:21	18°♂17'32	
	2732 Dec 11 00:25	0°♂		max. Earth dist.	2733 Nov 07 19:49	19°♂28'07	1.43630 AU
greatest brilliancy	2732 Dec 21 05:24	15°♂23'40	-0.6m		2733 Nov 14 11:10	0°♂	
	2733 Jan 01 01:39	0°♂		evening rise	2733 Nov 16 05:22	2°♂44'01	
evening max el	2733 Jan 02 09:30	1°♂25'53	20°05'47		2733 Dec 04 13:06	0°♂	
asc. node	2733 Jan 09 08:49	5°♂53'59		evening max el	2733 Dec 16 08:40	14°♂57'36	21°13'13
retrograde	2733 Jan 10 02:43	5°♂57'03		retrograde	2733 Dec 25 00:22	20°♂05'41	
evening set	2733 Jan 13 19:50	4°♂36'39		asc. node	2733 Dec 27 05:50	19°♂38'17	
	2733 Jan 18 03:53	30°♂		evening set	2733 Dec 29 03:20	18°♂30'04	
inferior conj	2733 Jan 19 05:56	28°♂33'17	2°53'17	inferior conj	2734 Jan 03 11:53	12°♂16'12	2°16'38
minimum elong	2733 Jan 19 03:23	28°♂41'51	2°52'38	minimum elong	2734 Jan 03 09:25	12°♂24'44	2°15'49
min. Earth dist.	2733 Jan 20 02:19	27°♂24'44	0.67061 AU	min. Earth dist.	2734 Jan 03 19:54	11°♂48'33	0.67667 AU
morning rise	2733 Jan 24 10:43	22°♂19'42		morning rise	2734 Jan 08 15:18	6°♂03'23	
direct	2733 Jan 30 06:53	19°♂43'20		direct	2734 Jan 13 20:47	3°♂46'30	
morning max el	2733 Feb 11 00:37	26°♂44'04	25°00'36	morning max el	2734 Jan 24 09:11	10°♂02'13	23°32'42
	2733 Feb 14 01:33	0°♂		desc. node	2734 Feb 03 01:36	21°♂34'43	
desc. node	2733 Feb 16 04:34	2°♂29'09			2734 Feb 09 03:56	0°♂	
	2733 Mar 07 15:29	0°♂			2734 Feb 28 09:30	0°♂	
morning set	2733 Mar 19 04:36	19°♂25'57		morning set	2734 Feb 28 14:59	0°♂23'13	
max. Earth dist.	2733 Mar 22 20:10	26°♂04'02	1.36849 AU	max. Earth dist.	2734 Mar 04 14:51	7°♂16'29	1.38964 AU
	2733 Mar 24 22:35	0°♂					
superior conj	2733 Mar 29 04:38	8°♂12'13	-1°24'12	superior conj	2734 Mar 12 02:56	20°♂53'07	-1°47'11
minimum elong	2733 Mar 29 08:47	8°♂32'33	1°23'35	minimum elong	2734 Mar 12 07:19	21°♂13'38	1°46'46
evening rise	2733 Apr 06 13:18	24°♂57'32			2734 Mar 16 21:52	0°♂	
asc. node	2733 Apr 07 08:07	26°♂31'46		evening rise	2734 Mar 21 08:47	8°♂38'39	
	2733 Apr 09 02:08	0°♂		asc. node	2734 Mar 25 05:08	16°♂01'24	
evening max el	2733 Apr 23 16:16	22°♂44'44	19°31'33		2734 Apr 02 12:23	0°♂	
retrograde	2733 May 03 04:29	27°♂20'56		evening max el	2734 Apr 06 16:19	4°♂57'45	18°43'28
evening set	2733 May 05 04:57	27°♂09'24		retrograde	2734 Apr 14 17:14	8°♂53'17	
inferior conj	2733 May 13 19:52	23°♂04'37	0°23'06	evening set	2734 Apr 16 23:12	8°♂36'00	
minimum elong	2733 May 13 20:51	23°♂03'02	0°22'45	inferior conj	2734 Apr 24 18:22	4°♂13'45	1°58'23
desc. node	2733 May 15 03:45	22°♂13'25		minimum elong	2734 Apr 24 22:06	4°♂06'46	1°57'16
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morning rise	2733 May 22 10:00	18°♂25'05			2734 Apr 30 19:36	30°♂	
direct	2733 May 26 23:10	17°♂38'24		desc. node	2734 May 02 00:46	29°♂20'36	
morning max el	2733 Jun 10 00:41	24°♂43'56	24°50'46	morning rise	2734 May 02 17:51	29°♂00'19	
	2733 Jun 14 21:23	0°♂		direct	2734 May 08 07:53	27°♂43'29	
	2733 Jul 03 05:02	0°♂			2734 May 15 22:37	0°♂	
asc. node	2733 Jul 04 07:22	2°♂14'58		morning max el	2734 May 22 16:18	5°♂16'00	26°20'17
morning set	2733 Jul 05 22:57	5°♂41'51			2734 Jun 09 18:06	0°♂	
				morning set	2734 Jun 20 09:51	20°♂33'28	
superior conj	2733 Jul 12 22:14	20°♂47'37	1°19'43	asc. node	2734 Jun 21 04:24	22°♂11'40	
minimum elong	2733 Jul 12 19:52	20°♂34'41	1°19'23		2734 Jun 24 19:00	0°♂	
max. Earth dist.	2733 Jul 14 09:27	23°♂59'04	1.32800 AU	superior conj	2734 Jun 27 09:38	5°♂44'20	1°01'24
	2733 Jul 17 04:46	0°♂		minimum elong	2734 Jun 27 07:24	5°♂32'02	1°01'00
evening rise	2733 Jul 20 03:11	6°♂06'51		max. Earth dist.	2734 Jun 27 19:49	6°♂40'22	1.32269 AU
	2733 Aug 02 00:37	0°♂		evening rise	2734 Jul 04 08:17	20°♂44'47	
desc. node	2733 Aug 11 03:02	13°♂45'00			2734 Jul 08 22:04	0°♂	
evening max el	2733 Aug 21 21:10	26°♂19'30	27°24'51		2734 Jul 27 09:11	0°♂	
	2733 Aug 26 06:44	0°♂		desc. node	2734 Jul 29 00:03	2°♂01'56	
retrograde	2733 Sep 04 15:10	3°♂36'14		evening max el	2734 Aug 04 02:25	8°♂40'32	26°58'29
evening set	2733 Sep 11 20:00	1°♂03'53		retrograde	2734 Aug 18 00:13	15°♂53'12	
	2733 Sep 13 05:48	30°♂		evening set	2734 Aug 25 00:05	13°♂44'00	
min. Earth dist.	2733 Sep 15 10:35	28°♂03'56	0.62866 AU	min. Earth dist.	2734 Aug 28 16:40	11°♂03'56	0.60912 AU
inferior conj	2733 Sep 18 05:53	25°♂21'03	-3°39'00	inferior conj	2734 Aug 31 21:14	8°♂21'00	-4°27'11
minimum elong	2733 Sep 18 11:20	25°♂07'48	3°37'26	minimum elong	2734 Sep 01 02:26	8°♂09'52	4°26'10
morning rise	2733 Sep 25 04:08	20°♂11'02		morning rise	2734 Sep 08 06:34	3°♂31'47	
direct	2733 Sep 27 14:39	19°♂43'33		direct	2734 Sep 10 16:05	3°♂08'56	
asc. node	2733 Sep 30 06:35	20°♂17'12		asc. node	2734 Sep 17 03:37	6°♂03'11	
morning max el	2733 Oct 04 07:19	23°♂10'00	17°51'04	morning max el	2734 Sep 17 20:49	6°♂43'05	18°02'01
	2733 Oct 09 16:30	0°♂			2734 Oct 02 18:15	0°♂	
morning set	2733 Oct 20 12:18	18°♂19'38		morning set	2734 Oct 03 16:22	1°♂42'28	
	2733 Oct 27 04:03	0°♂					
superior conj	2733 Nov 01 01:48	8°♂21'37	0°40'35	superior conj	2734 Oct 13 16:24	19°♂56'51	1°12'43
				minimum elong	2734 Oct 13 20:44	20°♂16'00	1°12'13

































































































































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max. Earth dist.	2734 Oct 21 07:13	3°♌01'52	1.41972 AU	evening rise	2735 Oct 07 18:39	23°♊05'00	
desc. node	2734 Oct 24 23:22	9°♌04'10		desc. node	2735 Oct 11 20:24	29°♊46'32	
evening rise	2734 Oct 27 01:11	12°♌24'33			2735 Oct 11 23:44	0°♌	
	2734 Nov 07 11:43	0°♍			2735 Nov 01 10:06	0°♍	
evening max el	2734 Nov 29 02:36	28°♍30'57	22°29'35	evening max el	2735 Nov 11 16:37	12°♍07'02	23°49'31
	2734 Nov 30 15:31	0°♎		retrograde	2735 Nov 22 12:47	18°♍30'16	
retrograde	2734 Dec 08 20:07	4°♎17'51		evening set	2735 Nov 27 16:40	16°♍21'24	
evening set	2734 Dec 13 10:48	2°♎25'48		asc. node	2735 Nov 30 23:55	12°♍46'29	
asc. node	2734 Dec 14 02:52	1°♎50'26		min. Earth dist.	2735 Dec 02 12:39	10°♍44'44	0.67780 AU
	2734 Dec 15 20:07	30°♏♍		inferior conj	2735 Dec 03 02:39	9°♍57'07	0°43'08
inferior conj	2734 Dec 18 19:23	26°♍04'49	1°32'49	minimum elong	2735 Dec 03 01:39	10°♍00'32	0°42'43
minimum elong	2734 Dec 18 17:27	26°♍11'33	1°32'05	morning rise	2735 Dec 08 10:37	3°♍51'33	
min. Earth dist.	2734 Dec 18 16:06	26°♍16'12	0.67900 AU	direct	2735 Dec 12 11:13	2°♍20'06	
morning rise	2734 Dec 23 23:57	19°♍54'39		morning max el	2735 Dec 20 15:16	7°♍02'55	20°45'38
direct	2734 Dec 28 14:33	18°♍00'29			2736 Jan 06 22:41	0°♎	
morning max el	2735 Jan 06 20:55	23°♍27'11	22°05'13	desc. node	2736 Jan 07 19:40	1°♎17'47	
	2735 Jan 12 14:19	0°♎		morning set	2736 Jan 19 00:49	18°♎22'14	
desc. node	2735 Jan 20 22:38	11°♎14'04			2736 Jan 26 09:11	0°♏	
	2735 Feb 02 13:35	0°♏		max. Earth dist.	2736 Jan 27 17:41	2°♏11'14	1.43002 AU
morning set	2735 Feb 08 20:47	9°♏57'19					
max. Earth dist.	2735 Feb 14 12:36	19°♏15'35	1.41114 AU	superior conj	2736 Feb 03 11:31	13°♏19'18	-2°05'11
	2735 Feb 20 18:50	0°♐		minimum elong	2736 Feb 03 09:49	13°♏12'10	2°05'10
					2736 Feb 13 03:16	0°♐	
superior conj	2735 Feb 22 06:57	2°♐39'24	-2°02'28	evening rise	2736 Feb 15 10:32	4°♐04'45	
minimum elong	2735 Feb 22 09:39	2°♐51'22	2°02'22	asc. node	2736 Feb 26 23:13	23°♐43'49	
evening rise	2735 Mar 04 17:12	21°♐43'51			2736 Mar 02 17:30	0°♑	
	2735 Mar 09 04:43	0°♑		evening max el	2736 Mar 03 11:16	0°♑46'02	18°07'09
asc. node	2735 Mar 12 02:10	5°♑07'55		retrograde	2736 Mar 10 00:32	4°♑09'27	
evening max el	2735 Mar 20 23:44	17°♑41'06	18°15'28	evening set	2736 Mar 12 18:15	3°♑33'33	
retrograde	2735 Mar 28 01:03	21°♑12'47			2736 Mar 17 15:59	30°♒♐	
evening set	2735 Mar 30 13:15	20°♑46'56		inferior conj	2736 Mar 19 04:48	28°♐29'48	3°32'27
inferior conj	2735 Apr 06 14:13	16°♑03'47	3°00'30	minimum elong	2736 Mar 19 06:28	28°♐25'39	3°32'18
minimum elong	2735 Apr 06 17:37	15°♑56'22	2°59'49	min. Earth dist.	2736 Mar 22 05:36	25°♐28'32	0.61705 AU
min. Earth dist.	2735 Apr 10 00:00	13°♑07'04	0.59551 AU	morning rise	2736 Mar 25 17:07	22°♐32'50	
morning rise	2735 Apr 13 19:33	10°♑23'44		direct	2736 Apr 01 13:30	20°♐07'49	
desc. node	2735 Apr 18 21:48	8°♑35'40		desc. node	2736 Apr 04 18:52	20°♐37'16	
direct	2735 Apr 20 05:19	8°♑30'58		morning max el	2736 Apr 15 17:15	28°♐04'05	27°49'48
morning max el	2735 May 04 13:33	16°♑19'04	27°22'59		2736 Apr 17 14:03	0°♑	
	2735 May 15 18:37	0°♒			2736 May 08 12:42	0°♒	
	2735 Jun 02 04:28	0°♓		morning set	2736 May 18 22:00	19°♒42'00	
morning set	2735 Jun 04 18:12	5°♓16'01			2736 May 23 19:33	0°♓	
asc. node	2735 Jun 08 01:27	12°♓16'57		max. Earth dist.	2736 May 24 18:00	2°♓01'10	1.32377 AU
				asc. node	2736 May 24 22:29	2°♓25'33	
superior conj	2735 Jun 11 21:21	20°♓39'17	0°39'27				
minimum elong	2735 Jun 11 19:42	20°♓30'13	0°39'06	superior conj	2736 May 26 07:37	5°♓25'49	0°14'31
max. Earth dist.	2735 Jun 11 08:03	19°♓26'04	1.32124 AU	minimum elong	2736 May 26 06:57	5°♓22'10	0°14'22
	2735 Jun 16 03:32	0°♔		behind sun begin	2736 May 26 04:45	5°♓10'10	
evening rise	2735 Jun 18 17:38	5°♔33'20		behind sun end	2736 May 26 09:09	5°♓34'10	
	2735 Jul 01 15:03	0°♕		evening rise	2736 Jun 02 05:05	20°♓24'24	
desc. node	2735 Jul 15 21:04	19°♕06'50			2736 Jun 06 21:04	0°♔	
evening max el	2735 Jul 17 00:40	20°♕14'41	25°59'39		2736 Jun 26 14:15	0°♕	
retrograde	2735 Jul 31 00:20	27°♕23'52		evening max el	2736 Jun 27 16:00	1°♕03'54	24°35'24
evening set	2735 Aug 06 07:02	25°♕48'59		desc. node	2736 Jul 01 18:06	4°♕29'42	
min. Earth dist.	2735 Aug 10 13:06	23°♕12'31	0.58849 AU	retrograde	2736 Jul 11 13:51	8°♕06'12	
inferior conj	2735 Aug 13 19:40	20°♕47'27	-4°58'02	evening set	2736 Jul 16 14:02	7°♕09'43	
minimum elong	2735 Aug 13 22:14	20°♕42'40	4°57'50	min. Earth dist.	2736 Jul 22 03:05	4°♕18'16	0.56929 AU
morning rise	2735 Aug 21 15:38	16°♕21'19		inferior conj	2736 Jul 24 22:13	2°♕30'17	-4°58'23
direct	2735 Aug 24 02:59	16°♕01'00		minimum elong	2736 Jul 24 19:36	2°♕34'31	4°58'13
morning max el	2735 Sep 01 04:29	19°♕52'25	18°33'03		2736 Jul 29 02:38	30°♒♔	
asc. node	2735 Sep 04 00:40	23°♕00'50		morning rise	2736 Aug 02 03:50	28°♔25'39	
	2735 Sep 08 19:18	0°♕		direct	2736 Aug 04 19:07	28°♔06'29	
morning set	2735 Sep 17 08:42	15°♕40'38			2736 Aug 10 23:19	0°♕	
	2735 Sep 24 19:36	0°♖		morning max el	2736 Aug 14 03:12	2°♕27'35	19°25'25
				asc. node	2736 Aug 20 21:44	10°♕54'18	
superior conj	2735 Sep 26 05:21	2°♖38'15	1°33'11	morning set	2736 Aug 31 09:28	0°♕03'05	
minimum elong	2735 Sep 26 08:24	2°♖52'28	1°32'55		2736 Aug 31 08:51	0°♕	

superior conj	2736 Sep 08 11:01	16° \mathbb{M} 09'12	1°43'19	morning max el	2737 Jul 27 14:39	14° \mathbb{Q} 20'22	20°39'01
minimum elong	2736 Sep 08 12:14	16° \mathbb{M} 15'12	1°43'16	asc. node	2737 Aug 07 18:47	29° \mathbb{Q} 30'41	
max. Earth dist.	2736 Sep 14 17:31	28° \mathbb{M} 04'26	1.37919 AU		2737 Aug 08 01:28	0° \mathbb{Q}	
	2736 Sep 15 18:47	0° \mathbb{Q}		morning set	2737 Aug 15 15:53	14° \mathbb{Q} 42'13	
evening rise	2736 Sep 18 11:46	4° \mathbb{Q} 51'04					
desc. node	2736 Sep 27 17:25	20° \mathbb{Q} 20'15		superior conj	2737 Aug 23 04:36	0° \mathbb{M} 15'41	1°44'54
	2736 Oct 04 00:09	0° \mathbb{M}		minimum elong	2737 Aug 23 04:11	0° \mathbb{M} 13'35	1°44'54
evening max el	2736 Oct 24 04:48	25° \mathbb{M} 46'23	25°06'31		2737 Aug 23 01:32	0° \mathbb{M}	
	2736 Oct 29 04:06	0° \mathbb{M}		max. Earth dist.	2737 Aug 28 00:41	9° \mathbb{M} 55'18	1.36021 AU
retrograde	2736 Nov 05 01:23	2° \mathbb{M} 38'28		evening rise	2737 Sep 01 01:24	17° \mathbb{M} 35'24	
evening set	2736 Nov 10 19:17	0° \mathbb{M} 14'03			2737 Sep 08 01:05	0° \mathbb{Q}	
	2736 Nov 11 01:43	30° \mathbb{R} \mathbb{M}		desc. node	2737 Sep 14 14:27	10° \mathbb{Q} 40'11	
min. Earth dist.	2736 Nov 15 07:13	25° \mathbb{M} 11'36	0.67318 AU		2737 Sep 28 07:02	0° \mathbb{M}	
inferior conj	2736 Nov 16 07:55	23° \mathbb{M} 50'45	-0°11'13	evening max el	2737 Oct 06 16:59	9° \mathbb{M} 26'50	26°13'08
minimum elong	2736 Nov 16 08:12	23° \mathbb{M} 49'50	0°11'06	retrograde	2737 Oct 19 09:06	16° \mathbb{M} 36'37	
transit middle	2736 Nov 16 08:12	23° \mathbb{M} 49'50	0°11'06	evening set	2737 Oct 25 16:44	14° \mathbb{M} 00'07	
transit begin	2736 Nov 16 06:11	23° \mathbb{M} 56'27		min. Earth dist.	2737 Oct 29 21:24	9° \mathbb{M} 33'14	0.66519 AU
transit end	2736 Nov 16 10:13	23° \mathbb{M} 43'13		inferior conj	2737 Oct 31 09:18	7° \mathbb{M} 42'28	-1°08'59
asc. node	2736 Nov 16 20:58	23° \mathbb{M} 08'12		minimum elong	2737 Oct 31 11:09	7° \mathbb{M} 36'48	1°08'13
morning rise	2736 Nov 21 21:20	17° \mathbb{M} 52'00		asc. node	2737 Nov 03 18:02	3° \mathbb{M} 52'04	
direct	2736 Nov 25 09:33	16° \mathbb{M} 40'58		morning rise	2737 Nov 06 06:02	1° \mathbb{M} 53'09	
morning max el	2736 Dec 02 17:30	20° \mathbb{M} 49'42	19°38'39	direct	2737 Nov 09 07:59	0° \mathbb{M} 59'01	
	2736 Dec 10 04:01	0° \mathbb{M}		morning max el	2737 Nov 16 02:44	4° \mathbb{M} 44'07	18°46'50
greatest brilliancy	2736 Dec 15 21:56	8° \mathbb{M} 19'00	-0.7m		2737 Dec 03 19:54	0° \mathbb{M}	
desc. node	2736 Dec 24 16:42	21° \mathbb{M} 39'02		morning set	2737 Dec 07 11:25	5° \mathbb{M} 45'00	
morning set	2736 Dec 27 21:28	26° \mathbb{M} 34'49		desc. node	2737 Dec 11 13:43	12° \mathbb{M} 12'18	
	2736 Dec 30 02:28	0° \mathbb{Q}			2737 Dec 22 21:38	0° \mathbb{Q}	
max. Earth dist.	2737 Jan 09 05:40	15° \mathbb{Q} 52'40	1.44383 AU	max. Earth dist.	2737 Dec 22 22:38	0° \mathbb{Q} 03'54	1.45107 AU
superior conj	2737 Jan 13 13:55	22° \mathbb{Q} 48'57	-1°50'26	superior conj	2737 Dec 23 19:49	1° \mathbb{Q} 27'06	-1°16'38
minimum elong	2737 Jan 13 06:39	22° \mathbb{Q} 19'45	1°49'55	minimum elong	2737 Dec 23 11:06	0° \mathbb{Q} 52'54	1°15'40
	2737 Jan 18 00:12	0° \mathbb{Q}		evening rise	2738 Jan 08 07:19	26° \mathbb{Q} 02'43	
evening rise	2737 Jan 27 08:25	15° \mathbb{Q} 32'53			2738 Jan 10 18:14	0° \mathbb{Q}	
	2737 Feb 04 23:09	0° \mathbb{M}		evening max el	2738 Jan 29 11:06	27° \mathbb{Q} 31'20	18°46'54
asc. node	2737 Feb 12 20:17	11° \mathbb{M} 39'47		asc. node	2738 Jan 30 17:20	28° \mathbb{Q} 43'11	
evening max el	2737 Feb 14 23:56	14° \mathbb{M} 05'04	18°17'56		2738 Feb 01 09:28	0° \mathbb{M}	
retrograde	2737 Feb 21 10:56	17° \mathbb{M} 33'38		retrograde	2738 Feb 05 04:09	1° \mathbb{M} 16'28	
evening set	2737 Feb 24 10:04	16° \mathbb{M} 46'38		evening set	2738 Feb 08 09:19	0° \mathbb{M} 17'22	
inferior conj	2737 Mar 02 10:01	11° \mathbb{M} 23'42	3°41'00		2738 Feb 08 20:03	30° \mathbb{R} \mathbb{Q}	
minimum elong	2737 Mar 02 09:50	11° \mathbb{M} 24'14	3°41'00	inferior conj	2738 Feb 14 01:53	24° \mathbb{Q} 36'58	3°32'13
min. Earth dist.	2737 Mar 04 20:36	8° \mathbb{M} 39'44	0.63681 AU	minimum elong	2738 Feb 14 00:19	24° \mathbb{Q} 41'47	3°32'02
morning rise	2737 Mar 08 08:45	5° \mathbb{M} 17'28		min. Earth dist.	2738 Feb 15 20:53	22° \mathbb{Q} 25'11	0.65319 AU
direct	2737 Mar 15 06:26	2° \mathbb{M} 31'48		morning rise	2738 Feb 19 14:55	18° \mathbb{Q} 26'06	
desc. node	2737 Mar 22 15:54	5° \mathbb{M} 06'52		direct	2738 Feb 26 06:25	15° \mathbb{Q} 34'25	
morning max el	2737 Mar 29 01:23	10° \mathbb{M} 28'06	27°39'15	desc. node	2738 Mar 09 12:56	21° \mathbb{Q} 28'24	
	2737 Apr 13 09:48	0° \mathbb{Y}		morning max el	2738 Mar 11 11:05	23° \mathbb{Q} 19'29	26°55'49
	2737 Apr 30 21:12	0° \mathbb{Q}			2738 Mar 17 09:49	0° \mathbb{M}	
morning set	2737 May 02 18:52	3° \mathbb{Q} 44'14			2738 Apr 06 17:24	0° \mathbb{Y}	
max. Earth dist.	2737 May 07 21:41	14° \mathbb{Q} 13'15	1.33054 AU	morning set	2738 Apr 16 05:38	17° \mathbb{Y} 12'26	
				max. Earth dist.	2738 Apr 20 15:25	25° \mathbb{Y} 52'49	1.34183 AU
superior conj	2737 May 10 14:41	19° \mathbb{Q} 58'36	-0°12'38		2738 Apr 22 15:59	0° \mathbb{Q}	
minimum elong	2737 May 10 15:19	20° \mathbb{Q} 01'56	0°12'30	superior conj	2738 Apr 24 16:25	4° \mathbb{Q} 10'46	-0°40'56
behind sun begin	2737 May 10 11:59	19° \mathbb{Q} 44'03		minimum elong	2738 Apr 24 18:32	4° \mathbb{Q} 21'45	0°40'30
behind sun end	2737 May 10 18:39	20° \mathbb{Q} 19'50		asc. node	2738 Apr 28 16:37	12° \mathbb{Q} 37'01	
asc. node	2737 May 11 19:33	22° \mathbb{Q} 33'42		evening rise	2738 May 02 02:57	19° \mathbb{Q} 50'15	
	2737 May 15 06:20	0° \mathbb{II}			2738 May 07 03:50	0° \mathbb{II}	
evening rise	2737 May 17 16:50	5° \mathbb{II} 12'13		evening max el	2738 May 22 01:14	22° \mathbb{II} 09'08	21°26'43
	2737 May 31 01:03	0° \mathbb{Q}		retrograde	2738 Jun 03 05:21	28° \mathbb{II} 07'07	
evening max el	2737 Jun 09 05:37	11° \mathbb{Q} 31'17	22°59'22	evening set	2738 Jun 05 14:33	27° \mathbb{II} 54'09	
desc. node	2737 Jun 18 15:08	17° \mathbb{Q} 35'18		desc. node	2738 Jun 05 12:08	27° \mathbb{II} 55'13	
retrograde	2737 Jun 22 14:56	18° \mathbb{Q} 11'40		inferior conj	2738 Jun 15 00:11	23° \mathbb{II} 54'17	-2°41'58
evening set	2737 Jun 26 02:44	17° \mathbb{Q} 44'57		minimum elong	2738 Jun 14 17:00	24° \mathbb{II} 04'19	2°39'37
min. Earth dist.	2737 Jul 03 14:40	14° \mathbb{Q} 24'18	0.55504 AU	min. Earth dist.	2738 Jun 15 02:18	23° \mathbb{II} 51'18	0.54887 AU
inferior conj	2737 Jul 05 05:21	13° \mathbb{Q} 28'16	-4°14'00	morning rise	2738 Jun 23 20:06	19° \mathbb{II} 57'48	
minimum elong	2737 Jul 04 21:52	13° \mathbb{Q} 39'08	4°12'25	direct	2738 Jun 27 02:56	19° \mathbb{II} 34'18	
morning rise	2737 Jul 13 19:24	9° \mathbb{Q} 35'54		morning max el	2738 Jul 09 14:45	25° \mathbb{II} 28'56	22°10'51
direct	2737 Jul 16 16:24	9° \mathbb{Q} 16'21					

	2738 Jul 13 19:47	0°☿			2739 Jun 03 10:36	30°♄	
asc. node	2738 Jul 25 15:50	18°☿39'45		morning rise	2739 Jun 03 15:22	29°♄56'32	
morning set	2738 Jul 31 01:49	29°☿32'19		direct	2739 Jun 07 15:21	29°♄21'46	
	2738 Jul 31 07:07	0°♁			2739 Jun 11 18:26	0°♂	
				morning max el	2739 Jun 21 06:58	6°♂03'55	23°52'51
superior conj	2738 Aug 07 06:27	14°♁46'56	1°39'29		2739 Jul 08 06:55	0°☿	
minimum elong	2738 Aug 07 04:52	14°♁38'35	1°39'24	asc. node	2739 Jul 12 12:52	8°☿12'34	
max. Earth dist.	2738 Aug 10 16:12	21°♁52'32	1.34454 AU	morning set	2739 Jul 15 13:24	14°☿27'18	
	2738 Aug 14 17:27	0°♂					
evening rise	2738 Aug 15 07:00	1°♂06'02		superior conj	2739 Jul 22 13:42	29°☿33'37	1°28'21
desc. node	2738 Sep 01 11:27	0°☿39'55		minimum elong	2739 Jul 22 11:28	29°☿21'33	1°28'06
	2738 Sep 01 00:53	0°♂			2739 Jul 22 18:35	0°♁	
evening max el	2738 Sep 19 05:30	23°♂01'15	27°01'41	max. Earth dist.	2739 Jul 24 16:51	4°♁08'21	1.33285 AU
	2738 Sep 30 01:03	0°♂		evening rise	2739 Jul 30 00:18	15°♁10'21	
retrograde	2738 Oct 02 11:11	0°♂18'12			2739 Aug 06 19:23	0°♂	
	2738 Oct 04 19:01	30°♂♂		desc. node	2739 Aug 19 08:28	20°♂10'04	
evening set	2738 Oct 09 06:50	27°♂35'39			2739 Aug 26 20:35	0°♂	
min. Earth dist.	2738 Oct 13 04:49	23°♂44'58	0.65374 AU	evening max el	2739 Sep 01 16:56	6°♂16'41	27°25'02
inferior conj	2738 Oct 15 04:43	21°♂28'26	-2°08'25	retrograde	2739 Sep 15 07:09	13°♂34'05	
minimum elong	2738 Oct 15 08:13	21°♂18'27	2°07'04	evening set	2739 Sep 22 10:44	10°♂54'30	
morning rise	2738 Oct 21 10:24	15°♂51'41		min. Earth dist.	2739 Sep 26 03:09	7°♂38'03	0.63878 AU
asc. node	2738 Oct 21 15:03	15°♂46'09		inferior conj	2739 Sep 28 15:37	5°♂02'00	-3°07'06
direct	2738 Oct 24 04:25	15°♂10'36		minimum elong	2739 Sep 28 20:34	4°♂49'12	3°05'27
morning max el	2738 Oct 30 16:51	18°♂41'34	18°11'31		2739 Oct 04 15:26	30°♂♂	
	2738 Nov 08 03:39	0°♂		morning rise	2739 Oct 05 07:35	29°♂41'20	
morning set	2738 Nov 18 06:29	16°♂23'38		direct	2739 Oct 07 20:11	29°♂09'44	
	2738 Nov 26 15:20	0°♂		asc. node	2739 Oct 08 12:04	29°♂11'57	
desc. node	2738 Nov 28 10:45	2°♂54'03			2739 Oct 11 00:18	0°♂	
				morning max el	2739 Oct 14 09:08	2°♂35'11	17°53'25
superior conj	2738 Dec 02 23:08	10°♂05'01	-0°30'12	morning set	2739 Oct 31 04:29	28°♂20'20	
minimum elong	2738 Dec 02 19:17	9°♂49'45	0°29'40		2739 Nov 01 03:41	0°♂	
max. Earth dist.	2738 Dec 05 18:00	14°♂28'40	1.45097 AU				
	2738 Dec 15 16:18	0°♂		superior conj	2739 Nov 12 20:00	19°♂37'20	0°16'58
evening rise	2738 Dec 19 07:55	5°♂40'49		minimum elong	2739 Nov 12 21:51	19°♂44'53	0°16'42
greatest brilliancy	2738 Dec 31 15:03	24°♂39'14	-0.7m	desc. node	2739 Nov 15 07:46	23°♂40'08	
	2739 Jan 04 05:25	0°♂		max. Earth dist.	2739 Nov 18 12:22	28°♂47'17	1.44352 AU
evening max el	2739 Jan 12 18:37	11°♂01'07	19°32'37		2739 Nov 19 06:39	0°♂	
asc. node	2739 Jan 17 14:21	14°♂40'19		evening rise	2739 Nov 28 18:13	14°♂48'37	
retrograde	2739 Jan 20 01:00	15°♂12'46			2739 Dec 08 18:24	0°♂	
evening set	2739 Jan 23 13:24	14°♂00'21		evening max el	2739 Dec 26 20:59	24°♂31'57	20°33'01
inferior conj	2739 Jan 29 01:14	8°♂04'35	3°10'27	retrograde	2740 Jan 03 23:01	29°♂18'03	
minimum elong	2739 Jan 28 22:53	8°♂12'17	3°09'58	asc. node	2740 Jan 04 11:21	29°♂16'35	
min. Earth dist.	2739 Jan 30 05:23	6°♂32'26	0.66552 AU	evening set	2740 Jan 07 20:12	27°♂51'07	
morning rise	2739 Feb 03 08:08	1°♂51'39		inferior conj	2740 Jan 13 05:25	21°♂42'44	2°38'41
	2739 Feb 05 23:05	30°♂♂		minimum elong	2740 Jan 13 02:51	21°♂51'31	2°37'57
direct	2739 Feb 09 12:16	29°♂07'00		min. Earth dist.	2740 Jan 13 20:17	20°♂52'04	0.67369 AU
	2739 Feb 13 08:30	0°♂		morning rise	2740 Jan 18 09:19	15°♂29'26	
morning max el	2739 Feb 21 20:22	6°♂27'08	25°47'24	direct	2740 Jan 23 23:18	13°♂01'02	
desc. node	2739 Feb 24 09:58	9°♂10'56		morning max el	2740 Feb 04 04:55	19°♂43'12	24°23'48
	2739 Mar 12 02:21	0°♂		desc. node	2740 Feb 11 07:00	27°♂51'12	
morning set	2739 Mar 30 02:07	29°♂54'23			2740 Feb 12 23:14	0°♂	
	2739 Mar 30 03:20	0°♂			2740 Mar 04 06:15	0°♂	
max. Earth dist.	2739 Apr 02 21:42	7°♂03'38	1.35768 AU	morning set	2740 Mar 11 02:51	11°♂35'12	
				max. Earth dist.	2740 Mar 14 19:13	18°♂07'54	1.37731 AU
superior conj	2739 Apr 08 10:15	17°♂54'52	-1°08'58		2740 Mar 21 03:57	0°♂	
minimum elong	2739 Apr 08 13:46	18°♂12'36	1°08'21				
	2739 Apr 14 08:11	0°♂		superior conj	2740 Mar 21 16:53	1°♂02'09	-1°34'37
asc. node	2739 Apr 15 13:39	2°♂31'13		minimum elong	2740 Mar 21 21:17	1°♂23'24	1°34'04
evening rise	2739 Apr 16 09:23	4°♂12'09		evening rise	2740 Mar 30 09:46	18°♂11'04	
	2739 May 01 07:21	0°♂		asc. node	2740 Apr 01 10:40	22°♂11'44	
evening max el	2739 May 04 07:52	3°♂20'20	20°08'07		2740 Apr 05 13:35	0°♂	
retrograde	2739 May 14 19:28	8°♂25'36		evening max el	2740 Apr 16 02:11	15°♂12'10	19°08'31
evening set	2739 May 16 19:33	8°♂15'15		retrograde	2740 Apr 24 22:14	19°♂29'37	
desc. node	2739 May 23 09:10	5°♂41'56		evening set	2740 Apr 27 00:37	19°♂16'06	
inferior conj	2739 May 25 20:18	4°♂16'11	-0°43'24	inferior conj	2740 May 05 07:11	15°♂04'15	1°07'22
minimum elong	2739 May 25 18:16	4°♂19'13	0°42'39	minimum elong	2740 May 05 09:47	14°♂59'49	1°06'29
min. Earth dist.	2739 May 27 15:05	3°♂12'34	0.55231 AU	min. Earth dist.	2740 May 08 06:16	13°♂03'45	0.56463 AU

desc. node	2740 May 09 06:12	12°♄25'27		min. Earth dist.	2741 Apr 20 01:22	23°♄48'24	0.58330 AU
morning rise	2740 May 13 15:52	10°♄09'50		morning rise	2741 Apr 24 06:48	21°♄05'04	
direct	2740 May 18 15:29	9°♄11'56		desc. node	2741 Apr 26 03:14	20°♄17'07	
morning max el	2740 Jun 01 21:27	16°♄30'23	25°31'24	direct	2741 Apr 30 06:02	19°♄33'03	
	2740 Jun 12 20:54	0°♄		morning max el	2741 May 14 15:23	27°♄14'12	26°50'51
asc. node	2740 Jun 28 09:55	28°♄02'33			2741 May 17 07:10	0°♄	
morning set	2740 Jun 29 01:03	29°♄22'09			2741 Jun 06 07:57	0°♄	
	2740 Jun 29 08:12	0°♄		morning set	2741 Jun 13 11:05	14°♄10'33	
				asc. node	2741 Jun 15 06:58	18°♄03'24	
superior conj	2740 Jul 06 00:10	14°♄28'50	1°12'26	superior conj	2741 Jun 20 11:56	29°♄25'29	0°52'30
minimum elong	2740 Jul 05 21:47	14°♄15'50	1°12'03	minimum elong	2741 Jun 20 09:54	29°♄14'16	0°52'06
max. Earth dist.	2740 Jul 07 00:37	16°♄42'42	1.32525 AU	max. Earth dist.	2741 Jun 20 12:05	29°♄26'18	1.32158 AU
evening rise	2740 Jul 13 01:56	29°♄38'36			2741 Jun 20 18:12	0°♄	
	2740 Jul 13 06:05	0°♄		evening rise	2741 Jun 27 09:07	14°♄21'33	
	2740 Jul 29 21:55	0°♄			2741 Jul 05 06:41	0°♄	
desc. node	2740 Aug 05 05:29	8°♄58'21		desc. node	2741 Jul 23 02:31	26°♄47'27	
evening max el	2740 Aug 14 00:58	19°♄00'05	27°17'38		2741 Jul 26 02:19	0°♄	
retrograde	2740 Aug 27 20:33	26°♄15'15		evening max el	2741 Jul 27 03:12	1°♄00'39	26°37'06
evening set	2740 Sep 04 00:48	23°♄50'45		retrograde	2741 Aug 10 02:23	8°♄12'48	
min. Earth dist.	2740 Sep 07 15:06	21°♄01'18	0.62063 AU	evening set	2741 Aug 16 20:30	6°♄16'56	
inferior conj	2740 Sep 10 15:03	18°♄16'14	-4°00'56	min. Earth dist.	2741 Aug 20 16:53	3°♄40'37	0.60030 AU
minimum elong	2740 Sep 10 20:38	18°♄03'24	3°59'31	inferior conj	2741 Aug 23 23:36	1°♄02'36	-4°43'07
morning rise	2740 Sep 17 18:04	13°♄15'01		minimum elong	2741 Aug 24 04:02	0°♄53'40	4°42'28
direct	2740 Sep 20 03:50	12°♄49'49			2741 Aug 25 07:06	30°♄	
asc. node	2740 Sep 24 09:06	14°♄09'48		morning rise	2741 Aug 31 13:37	26°♄23'22	
morning max el	2740 Sep 27 00:35	16°♄18'09	17°53'25	direct	2741 Sep 02 23:26	26°♄01'58	
	2740 Oct 06 15:15	0°♄		morning max el	2741 Sep 10 12:04	29°♄42'20	18°12'43
morning set	2740 Oct 12 23:16	11°♄16'02			2741 Sep 10 19:16	0°♄	
				asc. node	2741 Sep 11 06:10	0°♄27'55	
superior conj	2740 Oct 23 19:33	0°♄28'25	0°55'41	morning set	2741 Sep 26 09:04	24°♄54'54	
minimum elong	2740 Oct 23 23:52	0°♄46'55	0°55'07		2741 Sep 29 01:41	0°♄	
	2740 Oct 23 12:56	0°♄					
max. Earth dist.	2740 Oct 31 02:29	12°♄40'19	1.42975 AU	superior conj	2741 Oct 05 20:21	12°♄33'34	1°22'46
desc. node	2740 Nov 01 04:47	14°♄27'20		minimum elong	2741 Oct 06 00:17	12°♄51'20	1°22'21
evening rise	2740 Nov 07 05:47	24°♄04'41		max. Earth dist.	2741 Oct 13 11:02	25°♄54'20	1.41144 AU
	2740 Nov 11 01:30	0°♄			2741 Oct 15 21:35	0°♄	
	2740 Dec 01 21:27	0°♄		evening rise	2741 Oct 18 10:00	4°♄08'23	
evening max el	2740 Dec 08 17:40	8°♄03'15	21°44'54	desc. node	2741 Oct 19 01:49	5°♄12'32	
retrograde	2740 Dec 17 20:11	13°♄28'26			2741 Nov 04 08:41	0°♄	
asc. node	2740 Dec 21 08:22	12°♄21'17		evening max el	2741 Nov 21 09:39	21°♄37'20	23°03'37
evening set	2740 Dec 22 03:55	11°♄45'49		retrograde	2741 Dec 01 14:54	27°♄40'59	
inferior conj	2740 Dec 27 12:16	5°♄28'12	1°58'51	evening set	2741 Dec 06 10:54	25°♄41'56	
minimum elong	2740 Dec 27 09:58	5°♄36'10	1°58'03	asc. node	2741 Dec 08 05:25	23°♄57'51	
min. Earth dist.	2740 Dec 27 15:18	5°♄17'40	0.67802 AU	inferior conj	2741 Dec 11 19:55	19°♄18'54	1°12'26
	2740 Dec 31 21:07	30°♄		minimum elong	2741 Dec 11 18:19	19°♄24'25	1°11'48
morning rise	2741 Jan 01 15:52	29°♄16'12		min. Earth dist.	2741 Dec 11 12:04	19°♄45'56	0.67880 AU
direct	2741 Jan 06 14:51	27°♄09'00		morning rise	2741 Dec 17 01:37	13°♄10'11	
	2741 Jan 13 04:45	0°♄		direct	2741 Dec 21 10:04	11°♄25'46	
morning max el	2741 Jan 16 14:33	3°♄04'21	22°55'01	morning max el	2741 Dec 30 04:44	16°♄33'24	21°30'05
desc. node	2741 Jan 28 04:02	17°♄12'19			2742 Jan 10 01:45	0°♄	
	2741 Feb 06 02:14	0°♄		desc. node	2742 Jan 15 01:04	7°♄03'02	
morning set	2741 Feb 20 01:35	21°♄58'18			2742 Jan 30 04:21	0°♄	
max. Earth dist.	2741 Feb 24 14:22	29°♄37'17	1.39887 AU	morning set	2742 Jan 30 19:19	0°♄59'11	
	2741 Feb 24 19:39	0°♄		max. Earth dist.	2742 Feb 06 14:25	11°♄58'23	1.41960 AU
superior conj	2741 Mar 04 08:03	13°♄21'11	-1°54'52	superior conj	2742 Feb 14 02:44	24°♄40'48	-2°05'28
minimum elong	2741 Mar 04 12:01	13°♄39'21	1°54'35	minimum elong	2742 Feb 14 03:54	24°♄45'51	2°05'28
	2741 Mar 13 04:29	0°♄			2742 Feb 17 03:39	0°♄	
evening rise	2741 Mar 14 01:03	1°♄38'14		evening rise	2742 Feb 25 03:37	14°♄25'39	
asc. node	2741 Mar 19 07:43	11°♄32'28			2742 Mar 05 22:11	0°♄	
evening max el	2741 Mar 30 05:47	27°♄39'13	18°29'05	asc. node	2742 Mar 06 04:46	0°♄27'05	
	2741 Apr 02 05:03	0°♄		evening max el	2742 Mar 13 15:26	10°♄33'18	18°09'34
retrograde	2741 Apr 06 19:24	1°♄22'49		retrograde	2742 Mar 20 10:15	13°♄59'23	
evening set	2741 Apr 09 03:54	1°♄02'18		evening set	2742 Mar 23 00:53	13°♄29'26	
	2741 Apr 11 15:42	30°♄		inferior conj	2742 Mar 29 19:17	8°♄37'43	3°17'17
inferior conj	2741 Apr 16 14:59	26°♄31'28	2°28'44	minimum elong	2742 Mar 29 22:01	8°♄31'22	3°16'51
minimum elong	2741 Apr 16 18:51	26°♄23'43	2°27'44				

min. Earth dist.	2742 Apr 02 02:25	5° Υ 35'49	0.60482 AU	morning rise	2743 Mar 18 22:40	15° X 14'49	
morning rise	2742 Apr 05 17:04	2° Υ 49'25		direct	2743 Mar 25 20:49	12° X 39'23	
direct	2742 Apr 12 08:45	0° Υ 41'30		desc. node	2743 Mar 30 21:19	13° X 51'01	
desc. node	2742 Apr 13 00:17	0° Υ 42'40		morning max el	2743 Apr 08 21:02	20° X 35'55	27°49'43
morning max el	2742 Apr 26 15:20	8° Υ 34'11	27°38'48		2743 Apr 16 23:36	0° Υ	
	2742 May 13 00:32	0° X			2743 May 06 00:36	0° X	
morning set	2742 May 28 17:46	28° X 46'38		morning set	2743 May 12 18:58	13° X 03'46	
	2742 May 29 07:54	0° Π		max. Earth dist.	2743 May 18 07:31	24° X 35'33	1.32616 AU
asc. node	2742 Jun 02 04:02	8° Π 10'27					
max. Earth dist.	2742 Jun 03 23:39	12° Π 08'04	1.32185 AU	superior conj	2743 May 20 08:28	28° X 59'34	0°03'15
				minimum elong	2743 May 20 08:19	28° X 58'44	0°03'13
superior conj	2742 Jun 04 23:17	14° Π 17'36	0°29'12	behind sun begin	2743 May 20 03:13	28° X 31'03	
minimum elong	2742 Jun 04 22:00	14° Π 10'36	0°28'55	behind sun end	2743 May 20 13:25	29° X 26'26	
evening rise	2742 Jun 11 19:37	29° Π 11'54		asc. node	2743 May 20 01:06	28° X 19'37	
	2742 Jun 12 04:42	0° X			2743 May 20 19:36	0° Π	
	2742 Jun 28 19:54	0° Ω		evening rise	2743 May 27 07:28	14° Π 03'05	
evening max el	2742 Jul 08 22:24	12° Ω 14'36	25°26'13		2743 Jun 04 07:48	0° X	
desc. node	2742 Jul 09 23:33	13° Ω 12'52		evening max el	2743 Jun 20 12:24	22° X 52'18	23°55'03
retrograde	2742 Jul 22 22:24	19° Ω 21'39		desc. node	2743 Jun 26 20:35	27° X 42'42	
evening set	2742 Jul 28 17:14	18° Ω 03'42		retrograde	2743 Jul 04 06:18	29° X 46'47	
min. Earth dist.	2742 Aug 02 10:24	15° Ω 22'35	0.57992 AU	evening set	2743 Jul 08 15:04	29° X 04'45	
inferior conj	2742 Aug 05 13:50	13° Ω 11'20	-5°02'51	min. Earth dist.	2743 Jul 14 22:54	26° X 02'33	0.56248 AU
minimum elong	2742 Aug 05 14:26	13° Ω 10'16	5°02'51	inferior conj	2743 Jul 17 07:52	24° X 35'35	-4°45'40
morning rise	2742 Aug 13 14:00	8° Ω 54'33		minimum elong	2743 Jul 17 02:50	24° X 43'19	4°45'01
direct	2742 Aug 16 02:41	8° Ω 34'54		morning rise	2743 Jul 25 17:13	20° X 37'35	
morning max el	2742 Aug 24 16:15	12° Ω 37'53	18°52'40	direct	2743 Jul 28 10:55	20° X 18'20	
asc. node	2742 Aug 29 03:15	17° Ω 50'49		morning max el	2743 Aug 07 10:18	24° X 56'00	19°54'09
	2742 Sep 05 12:03	0° X			2743 Aug 11 21:58	0° Ω	
morning set	2742 Sep 10 05:23	9° X 04'12		asc. node	2743 Aug 16 00:18	6° Ω 04'25	
				morning set	2743 Aug 25 08:55	23° Ω 35'22	
superior conj	2742 Sep 18 17:01	25° X 37'18	1°38'38		2743 Aug 28 12:31	0° X	
minimum elong	2742 Sep 18 19:18	25° X 48'11	1°38'29				
	2742 Sep 21 00:43	0° X		superior conj	2743 Sep 02 04:19	9° X 25'15	1°44'55
max. Earth dist.	2742 Sep 25 15:44	8° X 26'35	1.39098 AU	minimum elong	2743 Sep 02 04:48	9° X 27'41	1°44'55
evening rise	2742 Sep 29 13:44	15° X 17'06		max. Earth dist.	2743 Sep 07 20:49	20° X 28'16	1.37086 AU
desc. node	2742 Oct 05 22:50	25° X 51'36		evening rise	2743 Sep 11 16:11	27° X 29'46	
	2742 Oct 08 13:32	0° X			2743 Sep 13 01:46	0° X	
	2742 Oct 30 02:54	0° X		desc. node	2743 Sep 22 19:52	16° X 20'25	
evening max el	2742 Nov 03 22:46	5° X 15'06	24°23'14		2743 Oct 01 23:18	0° X	
retrograde	2742 Nov 15 05:50	11° X 51'29		evening max el	2743 Oct 17 10:56	18° X 55'52	25°36'33
evening set	2742 Nov 20 15:33	9° X 36'02		retrograde	2743 Oct 29 16:12	25° X 55'59	
asc. node	2742 Nov 25 02:28	4° X 32'21		evening set	2743 Nov 04 16:10	23° X 25'54	
min. Earth dist.	2742 Nov 25 08:05	4° X 13'37	0.67622 AU	min. Earth dist.	2743 Nov 09 00:59	18° X 38'34	0.67028 AU
inferior conj	2742 Nov 26 02:32	3° X 11'48	0°20'36	inferior conj	2743 Nov 10 06:21	17° X 04'43	-0°35'23
minimum elong	2742 Nov 26 02:02	3° X 13'28	0°20'24	minimum elong	2743 Nov 10 07:16	17° X 01'47	0°35'00
	2742 Nov 28 14:13	30° X		asc. node	2743 Nov 11 23:31	14° X 56'13	
morning rise	2742 Dec 01 12:32	27° X 08'39		morning rise	2743 Nov 15 22:40	11° X 09'44	
direct	2742 Dec 05 07:44	25° X 46'02		direct	2743 Nov 19 06:21	10° X 06'14	
	2742 Dec 12 21:03	0° X		morning max el	2743 Nov 26 07:37	14° X 03'09	19°14'39
morning max el	2742 Dec 13 02:15	0° X 12'56	20°15'23		2743 Dec 08 07:06	0° X	
desc. node	2743 Jan 01 22:06	27° X 14'34		morning set	2743 Dec 19 18:21	17° X 38'21	
	2743 Jan 03 17:48	0° X		desc. node	2743 Dec 19 19:06	17° X 41'15	
morning set	2743 Jan 09 16:57	9° X 08'31			2743 Dec 27 16:44	0° X	
max. Earth dist.	2743 Jan 19 22:34	25° X 14'48	1.43664 AU	max. Earth dist.	2744 Jan 02 13:29	9° X 12'31	1.44782 AU
	2743 Jan 22 21:14	0° X					
superior conj	2743 Jan 25 20:10	4° X 50'12	-2°01'19	superior conj	2744 Jan 05 12:16	13° X 52'38	-1°38'14
minimum elong	2743 Jan 25 16:01	4° X 33'04	2°01'08	minimum elong	2744 Jan 05 03:33	13° X 18'03	1°37'27
evening rise	2743 Feb 07 13:06	26° X 24'12			2744 Jan 15 12:34	0° X	
	2743 Feb 09 14:46	0° X		evening rise	2744 Jan 20 01:25	7° X 27'18	
asc. node	2743 Feb 21 01:48	18° X 47'03			2744 Feb 03 01:11	0° X	
evening max el	2743 Feb 25 03:50	23° X 45'13	18°09'30	asc. node	2744 Feb 07 22:50	6° X 21'51	
retrograde	2743 Mar 03 14:50	27° X 08'55		evening max el	2744 Feb 08 16:05	7° X 07'20	18°28'07
evening set	2743 Mar 06 10:58	26° X 28'14		retrograde	2744 Feb 15 04:39	10° X 41'41	
inferior conj	2743 Mar 12 16:33	21° X 16'08	3°38'31	evening set	2744 Feb 18 06:18	9° X 49'31	
minimum elong	2743 Mar 12 17:24	21° X 13'55	3°38'28	inferior conj	2744 Feb 24 02:42	4° X 18'37	3°39'07
min. Earth dist.	2743 Mar 15 11:40	18° X 20'08	0.62584 AU	minimum elong	2744 Feb 24 01:52	4° X 21'05	3°39'03
				min. Earth dist.	2744 Feb 26 06:31	1° X 47'19	0.64420 AU

	2744 Feb 27 21:53	30° 		minimum elong	2745 Feb 06 20:08	17°  45'00	3°24'05
morning rise	2744 Feb 29 20:50	28°  10'02		min. Earth dist.	2745 Feb 08 10:36	15°  43'16	0.65883 AU
direct	2744 Mar 07 16:34	25°  20'27		morning rise	2745 Feb 12 08:05	11°  26'30	
desc. node	2744 Mar 16 18:20	29°  12'08		direct	2745 Feb 18 19:03	8°  36'32	
	2744 Mar 17 18:16	0° 		morning max el	2745 Mar 03 16:10	16°  13'31	26°29'22
morning max el	2744 Mar 21 06:13	3°  12'59	27°24'35	desc. node	2745 Mar 03 15:20	16°  11'25	
	2744 Apr 10 08:39	0° 			2745 Mar 15 02:02	0° 	
morning set	2744 Apr 25 11:58	26°  52'47			2745 Apr 03 04:59	0° 	
	2744 Apr 27 01:48	0° 		morning set	2745 Apr 08 17:16	10°  03'18	
max. Earth dist.	2744 Apr 30 07:39	6°  35'54	1.33479 AU	max. Earth dist.	2745 Apr 12 20:40	18°  02'41	1.34797 AU
superior conj	2744 May 03 13:31	13°  24'15	-0°24'32	superior conj	2745 Apr 17 12:12	27°  25'19	-0°52'57
minimum elong	2744 May 03 14:46	13°  30'50	0°24'17	minimum elong	2745 Apr 17 14:56	27°  39'23	0°52'25
asc. node	2744 May 05 22:08	18°  26'07			2745 Apr 18 18:10	0° 	
evening rise	2744 May 10 18:46	28°  47'45		asc. node	2745 Apr 22 19:10	8°  26'07	
	2744 May 11 08:32	0° 		evening rise	2745 Apr 25 03:34	13°  19'43	
	2744 May 29 01:17	0° 			2745 May 03 18:50	0° 	
evening max el	2744 Jun 01 03:31	3°  19'51	22°18'43	evening max el	2745 May 14 03:21	14°  09'47	20°51'12
desc. node	2744 Jun 12 17:37	9°  40'36		retrograde	2745 May 25 15:23	19°  46'18	
retrograde	2744 Jun 14 02:11	9°  44'49		evening set	2745 May 27 18:27	19°  35'31	
evening set	2744 Jun 17 00:57	9°  25'35		desc. node	2745 May 30 14:35	18°  50'12	
min. Earth dist.	2744 Jun 25 09:56	5°  48'57	0.55133 AU	inferior conj	2745 Jun 06 01:59	15°  37'47	-1°52'56
inferior conj	2744 Jun 26 08:26	5°  17'12	-3°40'08	minimum elong	2745 Jun 05 20:42	15°  45'19	1°51'04
minimum elong	2744 Jun 26 00:17	5°  28'43	3°37'58	min. Earth dist.	2745 Jun 06 22:08	15°  09'05	0.54912 AU
morning rise	2744 Jul 05 01:35	1°  25'57		morning rise	2745 Jun 14 22:37	11°  33'21	
direct	2744 Jul 08 02:07	1°  05'23		direct	2745 Jun 18 11:24	11°  06'27	
morning max el	2744 Jul 19 16:47	6°  29'47	21°16'11	morning max el	2745 Jul 01 13:06	17°  22'38	22°53'38
asc. node	2744 Aug 01 21:21	24°  55'48			2745 Jul 11 16:06	0° 	
	2744 Aug 04 13:51	0° 		asc. node	2745 Jul 19 18:23	14°  15'44	
morning set	2744 Aug 08 17:05	8°  20'06		morning set	2745 Jul 24 03:55	23°  12'49	
					2745 Jul 27 08:31	0° 	
superior conj	2744 Aug 16 01:50	23°  43'43	1°43'23	superior conj	2745 Jul 31 06:18	8°  22'42	1°35'25
minimum elong	2744 Aug 16 00:51	23°  38'42	1°43'21	minimum elong	2745 Jul 31 04:22	8°  12'27	1°35'15
	2744 Aug 19 03:23	0° 		max. Earth dist.	2745 Aug 03 02:27	14°  22'38	1.33907 AU
max. Earth dist.	2744 Aug 20 07:14	2°  19'37	1.35311 AU	evening rise	2745 Aug 08 00:12	24°  21'19	
evening rise	2744 Aug 24 13:10	10°  35'04			2745 Aug 10 22:15	0° 	
	2744 Sep 04 13:46	0° 		desc. node	2745 Aug 26 13:56	26°  21'11	
desc. node	2744 Sep 08 16:55	6°  32'47			2745 Aug 29 02:39	0° 	
	2744 Sep 26 10:28	0° 		evening max el	2745 Sep 11 11:14	16°  01'24	27°14'58
evening max el	2744 Sep 28 23:09	2°  34'12	26°36'16	retrograde	2745 Sep 24 21:20	23°  02'01	
retrograde	2744 Oct 11 21:32	9°  48'11		evening set	2745 Oct 01 20:57	20°  03'12	
evening set	2744 Oct 18 10:47	7°  07'51		min. Earth dist.	2745 Oct 05 16:13	17°  01'36	0.64777 AU
min. Earth dist.	2744 Oct 22 12:25	2°  56'44	0.66081 AU	inferior conj	2745 Oct 07 21:33	14°  03'52	-2°33'39
inferior conj	2744 Oct 24 05:26	0°  54'10	-1°34'07	minimum elong	2745 Oct 08 01:43	14°  04'03	2°32'07
minimum elong	2744 Oct 24 07:59	0°  46'33	1°33'05	morning rise	2745 Oct 14 07:31	9°  05'19	
	2744 Oct 24 23:41	30° 		asc. node	2745 Oct 15 17:34	8°  36'42	
asc. node	2744 Oct 28 20:32	26°  05'09		direct	2745 Oct 16 22:47	8°  28'52	
morning rise	2744 Oct 30 05:50	25°  10'07		morning max el	2745 Oct 23 10:46	11°  05'44	18°01'38
direct	2744 Nov 02 04:06	24°  02'05			2745 Nov 04 23:10	0° 	
morning max el	2744 Nov 08 19:19	27°  05'51	18°29'45	morning set	2745 Nov 10 03:24	8°  38'58	
	2744 Nov 10 15:17	0° 		desc. node	2745 Nov 22 13:11	29°  02'41	
morning set	2744 Nov 28 20:14	27°  25'19			2745 Nov 23 03:28	0° 	
	2744 Nov 30 10:54	0° 					
desc. node	2744 Dec 05 16:09	8°  18'39					
				superior conj	2745 Nov 23 23:10	1°  18'55	-0°09'37
superior conj	2744 Dec 14 14:18	22°  12'29	-0°57'47	minimum elong	2745 Nov 23 21:59	1°  14'13	0°09'26
minimum elong	2744 Dec 14 07:07	21°  54'35	0°56'53	behind sun begin	2745 Nov 23 13:19	0° 	
max. Earth dist.	2744 Dec 15 07:56	23°  12'01	1.45190 AU	behind sun end	2745 Nov 24 06:40	1°  48'54	
	2744 Dec 19 10:51	0° 		max. Earth dist.	2745 Nov 28 02:43	7°  54'23	1.44859 AU
evening rise	2744 Dec 30 14:25	17°  33'42		evening rise	2745 Dec 10 07:20	26°  15'48	
	2745 Jan 07 11:08	0° 			2745 Dec 12 07:29	0° 	
greatest brilliancy	2745 Jan 09 02:08	2°  32'51	-0.8m	greatest brilliancy	2745 Dec 24 07:13	18°  12'23	-0.6m
evening max el	2745 Jan 22 01:50	20°  34'57	19°04'25		2746 Jan 01 18:15	0° 	
asc. node	2745 Jan 24 19:51	22°  58'47		evening max el	2746 Jan 05 07:13	4°  04'56	19°56'45
retrograde	2745 Jan 28 23:52	24°  30'44		asc. node	2746 Jan 11 16:51	8°  22'59	
evening set	2745 Feb 01 07:52	23°  26'10		retrograde	2746 Jan 12 21:29	8°  30'48	
inferior conj	2745 Feb 06 22:07	17°  38'45	3°24'23	evening set	2746 Jan 16 13:18	7°  12'36	

inferior conj	2746 Jan 21 23:48	1°♊11'11	2°58'03	evening rise	2746 Nov 19 16:11	6°♏01'28	
minimum elong	2746 Jan 21 21:17	1°♊19'34	2°57'28		2746 Dec 05 16:30	0°♏	
	2746 Jan 22 21:06	30°♋♏		evening max el	2746 Dec 19 07:18	17°♏36'44	21°02'27
min. Earth dist.	2746 Jan 22 22:11	29°♏56'22	0.66944 AU	retrograde	2746 Dec 27 19:15	22°♏38'46	
morning rise	2746 Jan 27 05:02	24°♏57'41		asc. node	2746 Dec 29 13:52	22°♏21'20	
direct	2746 Feb 02 03:22	22°♏18'48		evening set	2746 Dec 31 20:42	21°♏05'26	
morning max el	2746 Feb 14 00:58	29°♏25'04	25°13'03	inferior conj	2747 Jan 06 05:23	14°♏52'57	2°22'39
	2746 Feb 14 14:38	0°♊		minimum elong	2747 Jan 06 02:52	15°♏01'37	2°21'52
desc. node	2746 Feb 18 12:22	4°♊20'39		min. Earth dist.	2747 Jan 06 15:08	14°♏19'24	0.67607 AU
	2746 Mar 08 22:25	0°♋		morning rise	2747 Jan 11 08:51	8°♏40'02	
morning set	2746 Mar 22 06:04	22°♋20'56		direct	2747 Jan 16 16:35	6°♏19'59	
max. Earth dist.	2746 Mar 25 22:04	29°♋04'11	1.36557 AU	morning max el	2747 Jan 27 09:24	12°♏42'27	23°45'56
	2746 Mar 26 09:59	0°♌		desc. node	2747 Feb 05 09:26	23°♏20'02	
					2747 Feb 10 07:16	0°♊	
superior conj	2746 Apr 01 01:41	10°♌54'25	-1°20'18		2747 Mar 01 18:47	0°♋	
minimum elong	2746 Apr 01 05:41	11°♌14'12	1°19'41	morning set	2747 Mar 03 20:21	3°♋29'43	
evening rise	2746 Apr 09 07:42	27°♌31'59		max. Earth dist.	2747 Mar 07 17:17	10°♋13'28	1.38644 AU
asc. node	2746 Apr 09 16:11	28°♌14'45					
	2746 Apr 10 13:11	0°♍		superior conj	2747 Mar 15 02:18	23°♋42'28	-1°44'06
evening max el	2746 Apr 26 15:11	25°♍38'20	19°40'27	minimum elong	2747 Mar 15 06:45	24°♋03'26	1°43'39
	2746 May 03 15:48	0°♎			2747 Mar 18 09:25	0°♌	
retrograde	2746 May 06 09:17	0°♎21'37		evening rise	2747 Mar 24 04:34	11°♌17'48	
evening set	2746 May 08 09:22	0°♎10'33		asc. node	2747 Mar 27 13:13	17°♌47'13	
	2746 May 09 04:56	30°♋♏			2747 Apr 03 12:06	0°♍	
inferior conj	2746 May 17 03:03	26°♏07'45	0°06'13	evening max el	2747 Apr 09 13:51	7°♏45'51	18°49'18
minimum elong	2746 May 17 03:19	26°♏07'20	0°06'07	retrograde	2747 Apr 17 19:16	11°♏46'30	
transit middle	2746 May 17 03:19	26°♏07'20	0°06'07	evening set	2747 Apr 20 00:20	11°♏30'15	
transit begin	2746 May 16 23:41	26°♏13'01		inferior conj	2747 Apr 27 22:24	7°♏10'47	1°46'02
transit end	2746 May 17 06:57	26°♏01'38		minimum elong	2747 Apr 28 01:57	7°♏04'19	1°44'56
desc. node	2746 May 17 11:35	25°♏54'22		min. Earth dist.	2747 May 01 04:28	4°♏49'49	0.57201 AU
min. Earth dist.	2746 May 19 12:06	24°♏38'39	0.55654 AU	desc. node	2747 May 04 08:37	2°♏50'43	
morning rise	2746 May 25 18:45	21°♏33'36		morning rise	2747 May 06 00:26	2°♏02'12	
direct	2746 May 30 04:24	20°♏50'20		direct	2747 May 11 10:52	0°♏50'37	
morning max el	2746 Jun 13 03:43	27°♏50'21	24°36'03	morning max el	2747 May 25 18:51	8°♏19'41	26°08'30
	2746 Jun 15 07:03	0°♎			2747 Jun 11 00:27	0°♎	
	2746 Jul 04 16:36	0°♏		morning set	2747 Jun 23 02:54	23°♎01'03	
asc. node	2746 Jul 06 15:27	3°♏56'43		asc. node	2747 Jun 23 12:30	23°♎51'51	
morning set	2746 Jul 08 15:44	8°♏08'27			2747 Jun 26 08:57	0°♏	
superior conj	2746 Jul 15 15:11	23°♏14'15	1°22'09	superior conj	2747 Jun 30 02:24	8°♏10'38	1°04'26
minimum elong	2746 Jul 15 12:50	23°♏01'28	1°21'50	minimum elong	2747 Jun 30 00:07	7°♏58'04	1°04'02
max. Earth dist.	2746 Jul 17 06:22	26°♏46'40	1.32912 AU	max. Earth dist.	2747 Jun 30 16:16	9°♏26'52	1.32319 AU
	2746 Jul 18 18:23	0°♏		evening rise	2747 Jul 07 01:45	23°♏13'15	
evening rise	2746 Jul 22 21:28	8°♏37'35			2747 Jul 10 09:36	0°♏	
	2746 Aug 03 07:58	0°♐			2747 Jul 28 06:04	0°♐	
desc. node	2746 Aug 13 10:57	15°♐35'41		desc. node	2747 Jul 31 07:58	4°♐01'33	
evening max el	2746 Aug 24 21:42	29°♐06'00	27°25'57	evening max el	2747 Aug 07 03:51	11°♐33'33	27°04'34
	2746 Aug 25 21:04	0°♑		retrograde	2747 Aug 21 00:59	18°♐46'34	
retrograde	2746 Sep 07 14:51	6°♑22'47		evening set	2747 Aug 28 02:26	16°♐33'00	
evening set	2746 Sep 14 19:33	3°♑48'18		min. Earth dist.	2747 Aug 31 18:07	13°♐51'03	0.61219 AU
min. Earth dist.	2746 Sep 18 10:32	0°♑44'14	0.63137 AU	inferior conj	2747 Sep 03 21:41	11°♐07'04	-4°20'45
	2746 Sep 19 04:48	30°♋♐		minimum elong	2747 Sep 04 03:03	10°♐55'22	4°19'38
inferior conj	2746 Sep 21 04:04	28°♐02'50	-3°30'52	morning rise	2747 Sep 11 05:23	6°♐14'37	
minimum elong	2746 Sep 21 09:25	27°♐49'35	3°29'15	direct	2747 Sep 13 14:55	5°♐51'11	
morning rise	2746 Sep 28 00:40	22°♐49'47		asc. node	2747 Sep 19 11:42	8°♐17'06	
direct	2746 Sep 30 11:37	22°♐21'19		morning max el	2747 Sep 20 17:14	9°♐23'24	17°59'07
asc. node	2746 Oct 02 14:37	22°♐43'07			2747 Oct 04 04:16	0°♑	
morning max el	2746 Oct 07 03:06	25°♐47'19	17°51'04	morning set	2747 Oct 06 13:02	4°♑20'34	
	2746 Oct 10 16:17	0°♑					
morning set	2746 Oct 23 11:10	21°♑04'04		superior conj	2747 Oct 16 17:58	22°♑48'48	1°08'36
	2746 Oct 28 13:57	0°♒		minimum elong	2747 Oct 16 22:22	23°♑08'05	1°08'04
					2747 Oct 20 21:48	0°♒	
superior conj	2746 Nov 04 07:08	11°♒24'34	0°34'43	max. Earth dist.	2747 Oct 24 07:47	5°♒44'03	1.42250 AU
minimum elong	2746 Nov 04 10:28	11°♒38'27	0°34'15	desc. node	2747 Oct 27 07:17	10°♒37'06	
desc. node	2746 Nov 09 10:15	19°♒50'10		evening rise	2747 Oct 30 09:27	15°♒34'43	
max. Earth dist.	2746 Nov 10 19:25	22°♒03'59	1.43839 AU		2747 Nov 08 17:56	0°♓	
	2746 Nov 15 19:18	0°♓			2747 Nov 30 23:15	0°♏	

evening max el	2747 Dec 02 01:57	1° Z 09'40	22°17'50		2748 Nov 01 11:10	0° Z	
retrograde	2747 Dec 11 15:28	6° Z 50'53		evening max el	2748 Nov 13 16:20	14° Z 44'49	23°37'40
evening set	2747 Dec 16 04:20	5° Z 01'12		retrograde	2748 Nov 24 08:43	21° Z 03'25	
asc. node	2747 Dec 16 10:55	4° Z 47'20		evening set	2748 Nov 29 10:33	18° Z 57'00	
	2747 Dec 20 13:53	30° R Z		asc. node	2748 Dec 02 07:59	15° Z 52'49	
inferior conj	2747 Dec 21 12:49	28° Z 40'56	1°39'54	inferior conj	2748 Dec 04 20:14	12° Z 32'49	0°51'03
minimum elong	2747 Dec 21 10:46	28° Z 48'03	1°39'07	minimum elong	2748 Dec 04 19:03	12° Z 36'50	0°50'33
min. Earth dist.	2747 Dec 21 11:07	28° Z 46'50	0.67887 AU	min. Earth dist.	2748 Dec 04 07:47	13° Z 15'19	0.67816 AU
morning rise	2747 Dec 26 17:04	22° Z 30'22		morning rise	2748 Dec 10 03:32	6° Z 26'22	
direct	2747 Dec 31 09:49	20° Z 32'51		direct	2748 Dec 14 06:04	4° Z 51'43	
morning max el	2748 Jan 09 20:34	26° Z 06'45	22°17'57	morning max el	2748 Dec 22 13:48	9° Z 40'46	20°56'45
	2748 Jan 13 09:39	0° Z			2749 Jan 07 03:42	0° Z	
desc. node	2748 Jan 23 06:30	12° Z 55'09		desc. node	2749 Jan 09 03:32	2° Z 55'34	
	2748 Feb 03 20:37	0° \approx		morning set	2749 Jan 21 13:47	21° Z 49'49	
morning set	2748 Feb 12 06:41	13° \approx 17'08			2749 Jan 26 17:43	0° \approx	
max. Earth dist.	2748 Feb 17 14:30	22° \approx 05'57	1.40802 AU	max. Earth dist.	2749 Jan 29 18:08	4° \approx 52'21	1.42743 AU
	2748 Feb 22 04:56	0° X					
				superior conj	2749 Feb 05 17:46	16° \approx 28'28	-2°05'49
superior conj	2748 Feb 25 09:27	5° X 38'15	-2°00'51	minimum elong	2749 Feb 05 16:54	16° \approx 24'47	2°05'49
minimum elong	2748 Feb 25 12:34	5° X 52'12	2°00'42		2749 Feb 13 12:59	0° X	
evening rise	2748 Mar 06 14:58	24° X 29'46		evening rise	2749 Feb 17 10:50	6° X 57'48	
	2748 Mar 09 13:47	0° Y		asc. node	2749 Feb 28 07:18	25° X 39'15	
asc. node	2748 Mar 13 10:16	6° Y 58'02			2749 Mar 03 07:48	0° Y	
evening max el	2748 Mar 22 20:25	20° Y 25'43	18°18'20	evening max el	2749 Mar 06 07:32	3° Y 28'03	18°07'09
retrograde	2748 Mar 30 00:36	24° Y 00'06		retrograde	2749 Mar 12 21:59	6° Y 51'50	
evening set	2748 Apr 01 11:49	23° Y 35'43		evening set	2749 Mar 15 14:52	6° Y 17'34	
inferior conj	2748 Apr 08 15:17	18° Y 55'39	2°53'08	inferior conj	2749 Mar 22 03:20	1° Y 16'58	3°29'14
minimum elong	2748 Apr 08 18:52	18° Y 47'59	2°52'21	minimum elong	2749 Mar 22 05:17	1° Y 12'10	3°29'00
min. Earth dist.	2748 Apr 12 01:33	16° Y 01'43	0.59228 AU		2749 Mar 23 10:27	30° R X	
morning rise	2748 Apr 15 23:19	13° Y 18'44		min. Earth dist.	2749 Mar 25 06:00	28° X 14'40	0.61391 AU
desc. node	2748 Apr 20 05:40	11° Y 42'37		morning rise	2749 Mar 28 17:59	25° X 21'50	
direct	2748 Apr 22 06:33	11° Y 31'24		direct	2749 Apr 04 13:24	23° X 00'52	
morning max el	2748 May 06 15:19	19° Y 17'55	27°15'48	desc. node	2749 Apr 07 02:42	23° X 19'20	
	2748 May 15 17:03	0° Z			2749 Apr 17 18:43	0° Y	
	2748 Jun 02 16:10	0° II		morning max el	2749 Apr 18 18:08	0° Y 56'45	27°48'08
morning set	2748 Jun 06 11:45	7° II 45'23			2749 May 09 20:31	0° Z	
asc. node	2748 Jun 09 09:34	13° II 56'10		morning set	2749 May 21 16:22	22° Z 14'15	
max. Earth dist.	2748 Jun 13 04:27	22° II 12'28	1.32120 AU		2749 May 25 09:13	0° II	
				asc. node	2749 May 27 06:37	4° II 04'29	
superior conj	2748 Jun 13 14:12	23° II 06'10	0°42'59	max. Earth dist.	2749 May 27 14:54	4° II 49'27	1.32314 AU
minimum elong	2748 Jun 13 12:26	22° II 56'27	0°42'38				
	2748 Jun 16 17:28	0° S		superior conj	2749 May 29 00:48	7° II 54'19	0°18'27
evening rise	2748 Jun 20 10:36	8° S 00'27		minimum elong	2749 May 28 23:58	7° II 49'43	0°18'17
	2748 Jul 01 21:04	0° O		evening rise	2749 Jun 04 21:52	22° II 51'23	
desc. node	2748 Jul 17 04:58	21° O 18'36			2749 Jun 08 08:26	0° S	
evening max el	2748 Jul 19 03:03	23° O 13'57	26°10'13		2749 Jun 26 21:58	0° O	
	2748 Jul 29 23:01	0° P		evening max el	2749 Jun 30 19:10	4° O 08'39	24°49'01
retrograde	2748 Aug 02 02:36	0° P 24'05		desc. node	2749 Jul 04 01:59	6° O 58'46	
	2748 Aug 05 05:26	30° R O		retrograde	2749 Jul 14 17:59	11° O 12'47	
evening set	2748 Aug 08 12:47	28° O 43'23		evening set	2749 Jul 19 23:14	10° O 10'57	
min. Earth dist.	2748 Aug 12 15:45	26° O 07'40	0.59154 AU	min. Earth dist.	2749 Jul 25 06:31	7° O 22'36	0.57189 AU
inferior conj	2748 Aug 15 22:48	23° O 38'33	-4°55'00	inferior conj	2749 Jul 28 04:20	5° O 28'01	-5°01'00
minimum elong	2748 Aug 16 01:57	23° O 32'33	4°54'43	minimum elong	2749 Jul 28 02:36	5° O 30'54	5°00'55
morning rise	2748 Aug 23 17:17	19° O 09'09		morning rise	2749 Aug 05 08:35	1° O 20'30	
direct	2748 Aug 26 04:09	18° O 48'37		direct	2749 Aug 07 23:04	1° O 01'19	
morning max el	2748 Sep 03 01:59	22° O 36'40	18°27'07	morning max el	2749 Aug 17 02:12	5° O 17'27	19°16'17
asc. node	2748 Sep 05 08:46	25° O 04'41		asc. node	2749 Aug 23 05:49	12° O 50'33	
	2748 Sep 08 22:53	0° P			2749 Sep 01 20:33	0° P	
morning set	2748 Sep 19 03:46	18° P 13'48		morning set	2749 Sep 03 03:27	2° P 33'07	
	2748 Sep 25 07:17	0° Q					
				superior conj	2749 Sep 11 07:25	18° P 45'45	1°42'21
superior conj	2748 Sep 28 03:56	5° Q 21'14	1°30'45	minimum elong	2749 Sep 11 08:55	18° P 53'03	1°42'18
minimum elong	2748 Sep 28 07:14	5° Q 36'30	1°30'29		2749 Sep 17 06:00	0° Q	
max. Earth dist.	2748 Oct 05 14:40	18° Q 41'23	1.40291 AU	max. Earth dist.	2749 Sep 17 18:24	0° Q 56'44	1.38217 AU
evening rise	2748 Oct 09 23:20	26° Q 05'01		evening rise	2749 Sep 21 13:04	7° Q 41'52	
	2748 Oct 12 08:30	0° R		desc. node	2749 Sep 30 01:19	21° Q 55'41	
desc. node	2748 Oct 13 04:18	1° R 20'13			2749 Oct 05 06:03	0° R	

evening max el	2749 Oct 27 04:41	28° \mathbb{M} 24'07	24°55'34	minimum elong	2750 Aug 25 23:16	2° \mathbb{M} 46'40	1°45'08
	2749 Oct 28 21:20	0° \mathbb{M}		max. Earth dist.	2750 Aug 31 00:48	12° \mathbb{M} 49'26	1.36285 AU
retrograde	2749 Nov 07 22:01	5° \mathbb{M} 12'41		evening rise	2750 Sep 03 23:55	20° \mathbb{M} 18'23	
evening set	2749 Nov 13 13:43	2° \mathbb{M} 50'34			2750 Sep 09 10:29	0° \mathbb{M}	
	2749 Nov 16 07:25	30° \mathbb{R} \mathbb{M}		desc. node	2750 Sep 16 22:20	12° \mathbb{M} 18'12	
min. Earth dist.	2749 Nov 18 02:49	27° \mathbb{M} 42'48	0.67407 AU		2750 Sep 29 05:38	0° \mathbb{M}	
inferior conj	2749 Nov 19 01:53	26° \mathbb{M} 26'47	-0°02'41	evening max el	2750 Oct 09 16:51	12° \mathbb{M} 05'06	26°04'13
minimum elong	2749 Nov 19 01:57	26° \mathbb{M} 26'34	0°02'40	retrograde	2750 Oct 22 06:22	19° \mathbb{M} 12'39	
transit middle	2749 Nov 19 01:57	26° \mathbb{M} 26'34	0°02'40	evening set	2750 Oct 28 12:01	16° \mathbb{M} 37'47	
transit begin	2749 Nov 18 23:14	26° \mathbb{M} 35'33		min. Earth dist.	2750 Nov 01 17:48	12° \mathbb{M} 05'29	0.66661 AU
transit end	2749 Nov 19 04:41	26° \mathbb{M} 17'34		inferior conj	2750 Nov 03 03:57	10° \mathbb{M} 19'06	-1°00'04
asc. node	2749 Nov 19 05:01	26° \mathbb{M} 16'28		minimum elong	2750 Nov 03 05:32	10° \mathbb{M} 14'09	0°59'23
morning rise	2749 Nov 24 14:21	20° \mathbb{M} 26'43		asc. node	2750 Nov 06 02:03	6° \mathbb{M} 53'25	
direct	2749 Nov 28 04:18	19° \mathbb{M} 12'48		morning rise	2750 Nov 08 23:27	4° \mathbb{M} 28'07	
morning max el	2749 Dec 05 14:48	23° \mathbb{M} 26'02	19°47'40	direct	2750 Nov 12 02:50	3° \mathbb{M} 31'38	
	2749 Dec 11 03:49	0° \mathbb{M}		morning max el	2750 Nov 18 23:02	7° \mathbb{M} 19'28	18°53'31
greatest brilliancy	2749 Dec 18 23:47	11° \mathbb{M} 06'36	-0.7m		2750 Dec 05 02:46	0° \mathbb{M}	
desc. node	2749 Dec 27 00:34	23° \mathbb{M} 14'37		morning set	2750 Dec 10 19:59	8° \mathbb{M} 57'44	
morning set	2749 Dec 31 09:47	29° \mathbb{M} 59'03		desc. node	2750 Dec 13 21:35	13° \mathbb{M} 46'32	
	2749 Dec 31 10:01	0° \mathbb{M}			2750 Dec 24 05:52	0° \mathbb{M}	
max. Earth dist.	2750 Jan 12 04:59	18° \mathbb{M} 27'10	1.44218 AU	max. Earth dist.	2750 Dec 25 21:32	2° \mathbb{M} 35'48	1.45051 AU
superior conj	2750 Jan 16 23:59	26° \mathbb{M} 08'12	-1°53'55	superior conj	2750 Dec 27 08:02	4° \mathbb{M} 51'31	-1°22'49
minimum elong	2750 Jan 16 17:26	25° \mathbb{M} 41'46	1°53'31	minimum elong	2750 Dec 26 23:05	4° \mathbb{M} 16'18	1°21'51
	2750 Jan 19 09:01	0° \mathbb{M}		evening rise	2751 Jan 11 14:12	29° \mathbb{M} 12'19	
evening rise	2750 Jan 30 11:49	18° \mathbb{M} 33'51			2751 Jan 12 01:58	0° \mathbb{M}	
	2750 Feb 06 05:36	0° \mathbb{M}			2751 Feb 01 03:28	0° \mathbb{M}	
asc. node	2750 Feb 15 04:20	13° \mathbb{M} 41'49		evening max el	2751 Feb 01 07:44	0° \mathbb{M} 10'58	18°41'30
evening max el	2750 Feb 17 20:12	16° \mathbb{M} 45'24	18°15'10	asc. node	2751 Feb 02 01:21	0° \mathbb{M} 54'02	
retrograde	2750 Feb 24 06:56	20° \mathbb{M} 12'13		retrograde	2751 Feb 07 23:19	3° \mathbb{M} 52'49	
evening set	2750 Feb 27 05:16	19° \mathbb{M} 26'54		evening set	2751 Feb 11 03:35	2° \mathbb{M} 55'28	
inferior conj	2750 Mar 05 06:35	14° \mathbb{M} 06'51	3°40'54		2751 Feb 14 13:10	30° \mathbb{R} \mathbb{M}	
minimum elong	2750 Mar 05 06:39	14° \mathbb{M} 06'39	3°40'53	inferior conj	2751 Feb 16 21:03	27° \mathbb{M} 17'29	3°34'25
min. Earth dist.	2750 Mar 07 19:29	11° \mathbb{M} 19'08	0.63409 AU	minimum elong	2751 Feb 16 19:40	27° \mathbb{M} 21'44	3°34'17
morning rise	2750 Mar 11 07:06	8° \mathbb{M} 01'44		min. Earth dist.	2751 Feb 18 18:19	25° \mathbb{M} 00'25	0.65101 AU
direct	2750 Mar 18 05:14	5° \mathbb{M} 18'08		morning rise	2751 Feb 22 11:18	21° \mathbb{M} 07'14	
desc. node	2750 Mar 24 23:44	7° \mathbb{M} 28'27		direct	2751 Mar 01 04:07	18° \mathbb{M} 15'41	
morning max el	2750 Apr 01 01:38	13° \mathbb{M} 14'55	27°43'00	desc. node	2751 Mar 11 20:45	23° \mathbb{M} 35'15	
	2750 Apr 14 12:27	0° \mathbb{M}		morning max el	2751 Mar 14 11:12	26° \mathbb{M} 02'49	27°04'08
	2750 May 02 08:36	0° \mathbb{M}			2751 Mar 18 02:58	0° \mathbb{M}	
morning set	2750 May 05 14:24	6° \mathbb{M} 20'26			2751 Apr 08 01:35	0° \mathbb{M}	
max. Earth dist.	2750 May 10 19:39	17° \mathbb{M} 05'15	1.32926 AU	morning set	2751 Apr 19 02:55	19° \mathbb{M} 54'39	
				max. Earth dist.	2751 Apr 23 15:09	28° \mathbb{M} 50'43	1.33984 AU
					2751 Apr 24 04:46	0° \mathbb{M}	
superior conj	2750 May 13 08:27	22° \mathbb{M} 29'35	-0°08'25	superior conj	2751 Apr 27 11:08	6° \mathbb{M} 45'40	-0°36'36
minimum elong	2750 May 13 08:52	22° \mathbb{M} 31'48	0°08'19	minimum elong	2751 Apr 27 13:00	6° \mathbb{M} 55'30	0°36'13
behind sun begin	2750 May 13 04:19	22° \mathbb{M} 07'21		asc. node	2751 May 01 00:40	14° \mathbb{M} 17'30	
behind sun end	2750 May 13 13:25	22° \mathbb{M} 56'16		evening rise	2751 May 04 20:09	22° \mathbb{M} 20'33	
asc. node	2750 May 14 03:38	24° \mathbb{M} 12'54			2751 May 08 14:05	0° \mathbb{M}	
	2750 May 16 19:50	0° \mathbb{M}		evening max el	2751 May 25 02:59	25° \mathbb{M} 12'54	21°39'51
evening rise	2750 May 20 09:39	7° \mathbb{M} 40'06			2751 May 31 18:46	0° \mathbb{M}	
	2750 Jun 01 03:33	0° \mathbb{M}		retrograde	2751 Jun 06 12:14	1° \mathbb{M} 18'14	
evening max el	2750 Jun 12 08:40	14° \mathbb{M} 37'50	23°13'47	desc. node	2751 Jun 07 19:59	1° \mathbb{M} 14'13	
desc. node	2750 Jun 20 22:59	20° \mathbb{M} 27'34		evening set	2751 Jun 09 00:30	1° \mathbb{M} 04'00	
retrograde	2750 Jun 25 20:48	21° \mathbb{M} 22'24			2751 Jun 12 13:47	30° \mathbb{R} \mathbb{M}	
evening set	2750 Jun 29 13:45	20° \mathbb{M} 52'19		inferior conj	2751 Jun 18 10:06	27° \mathbb{M} 02'28	-2°58'24
min. Earth dist.	2750 Jul 06 18:19	17° \mathbb{M} 36'47	0.55671 AU	minimum elong	2751 Jun 18 02:28	27° \mathbb{M} 13'09	2°56'01
inferior conj	2750 Jul 08 14:07	16° \mathbb{M} 32'35	-4°24'01	min. Earth dist.	2751 Jun 18 05:43	27° \mathbb{M} 08'36	0.54921 AU
minimum elong	2750 Jul 08 07:08	16° \mathbb{M} 42'52	4°22'40	morning rise	2751 Jun 27 05:28	23° \mathbb{M} 08'03	
morning rise	2750 Jul 17 02:58	12° \mathbb{M} 39'07		direct	2751 Jun 30 10:33	22° \mathbb{M} 45'28	
direct	2750 Jul 19 23:02	12° \mathbb{M} 19'42		morning max el	2751 Jul 12 16:59	28° \mathbb{M} 32'02	21°56'14
morning max el	2750 Jul 30 15:19	17° \mathbb{M} 16'46	20°26'47		2751 Jul 14 04:49	0° \mathbb{M}	
	2750 Aug 09 07:39	0° \mathbb{M}		asc. node	2751 Jul 27 23:54	20° \mathbb{M} 26'27	
asc. node	2750 Aug 10 02:52	1° \mathbb{M} 21'22			2751 Aug 01 19:39	0° \mathbb{M}	
morning set	2750 Aug 18 09:10	17° \mathbb{M} 10'17		morning set	2751 Aug 02 18:43	1° \mathbb{M} 59'36	
	2750 Aug 24 14:34	0° \mathbb{M}					
superior conj	2750 Aug 25 23:27	2° \mathbb{M} 47'36	1°45'08				

superior conj	2751 Aug 10 00:16	17°♎16'05	1°40'43	superior conj	2752 Jul 24 06:54	2°♏01'13	1°30'23
minimum elong	2751 Aug 09 22:50	17°♎08'32	1°40'37	minimum elong	2752 Jul 24 04:44	1°♏49'33	1°30'08
max. Earth dist.	2751 Aug 13 15:04	24°♎45'25	1.34666 AU	max. Earth dist.	2752 Jul 26 14:26	6°♏58'12	1.33435 AU
	2751 Aug 16 05:45	0°♎		evening rise	2752 Jul 31 19:15	17°♏43'08	
evening rise	2751 Aug 18 03:26	3°♎43'06			2752 Aug 07 05:17	0°♎	
	2751 Sep 02 06:23	0°♏		desc. node	2752 Aug 20 16:23	21°♎57'04	
desc. node	2751 Sep 03 19:21	2°♏21'41			2752 Aug 26 15:16	0°♏	
evening max el	2751 Sep 22 05:23	25°♏41'03	26°55'48	evening max el	2752 Sep 03 17:01	8°♏59'50	27°23'19
	2751 Sep 27 10:26	0°♎		retrograde	2752 Sep 17 06:11	16°♏17'40	
retrograde	2751 Oct 05 09:14	2°♎57'09		evening set	2752 Sep 24 09:00	13°♏36'46	
evening set	2751 Oct 12 03:21	0°♎14'57		min. Earth dist.	2752 Sep 28 02:03	10°♏15'38	0.64123 AU
	2751 Oct 12 10:37	30°♎♏		inferior conj	2752 Sep 30 12:43	7°♏41'49	-2°58'27
min. Earth dist.	2751 Oct 16 02:17	26°♏19'02	0.65571 AU	minimum elong	2752 Sep 30 17:29	7°♏29'18	2°56'48
inferior conj	2751 Oct 18 00:22	24°♏06'02	-1°59'26	morning rise	2752 Oct 07 03:07	2°♏18'41	
minimum elong	2751 Oct 18 03:37	23°♏56'37	1°58'07	direct	2752 Oct 09 16:19	1°♏45'58	
asc. node	2751 Oct 23 23:05	18°♏34'35		asc. node	2752 Oct 09 20:08	1°♏46'05	
morning rise	2751 Oct 24 04:38	18°♏27'17		morning max el	2752 Oct 16 04:48	5°♏11'41	17°55'00
direct	2751 Oct 26 23:44	17°♏44'28			2752 Nov 01 12:43	0°♎	
morning max el	2751 Nov 02 12:35	21°♏16'46	18°15'41	morning set	2752 Nov 02 04:57	1°♎09'21	
	2751 Nov 09 07:15	0°♎					
morning set	2751 Nov 21 10:34	19°♎23'05		superior conj	2752 Nov 15 03:40	22°♎47'29	0°10'14
	2751 Nov 27 23:52	0°♏		minimum elong	2752 Nov 15 04:49	22°♎52'09	0°10'03
desc. node	2751 Nov 30 18:37	4°♏27'19		behind sun begin	2752 Nov 14 20:51	22°♎19'46	
				behind sun end	2752 Nov 15 12:47	23°♎24'30	
superior conj	2751 Dec 06 10:16	13°♏25'15	-0°37'33	desc. node	2752 Nov 16 15:41	25°♎13'17	
minimum elong	2751 Dec 06 05:27	13°♏06'16	0°36'54		2752 Nov 19 15:12	0°♏	
max. Earth dist.	2751 Dec 08 16:56	17°♏00'27	1.45147 AU	max. Earth dist.	2752 Nov 20 11:34	1°♏21'02	1.44502 AU
	2751 Dec 17 00:08	0°♏		evening rise	2752 Dec 01 05:24	18°♏07'41	
evening rise	2751 Dec 22 17:48	8°♏57'20			2752 Dec 09 00:17	0°♏	
greatest brilliancy	2752 Jan 03 08:22	26°♏57'48	-0.7m	evening max el	2752 Dec 28 19:03	27°♏11'17	20°23'12
	2752 Jan 05 08:36	0°♏			2752 Dec 31 23:05	0°♏	
evening max el	2752 Jan 15 15:52	13°♏40'23	19°24'49	retrograde	2753 Jan 05 17:55	1°♏52'09	
asc. node	2752 Jan 19 22:22	17°♏02'20		asc. node	2753 Jan 05 19:23	1°♏52'08	
retrograde	2752 Jan 22 19:51	17°♏47'37		evening set	2753 Jan 09 13:38	0°♏27'32	
evening set	2752 Jan 26 07:05	16°♏37'12			2753 Jan 10 03:29	30°♎♏	
inferior conj	2752 Jan 31 19:28	10°♏43'25	3°14'25	inferior conj	2753 Jan 14 23:06	24°♏20'46	2°44'04
minimum elong	2752 Jan 31 17:12	10°♏50'48	3°14'00	minimum elong	2753 Jan 14 20:32	24°♏29'30	2°43'22
min. Earth dist.	2752 Feb 02 01:42	9°♏05'15	0.66392 AU	min. Earth dist.	2753 Jan 15 15:51	23°♏23'54	0.67270 AU
morning rise	2752 Feb 06 03:04	4°♏30'39		morning rise	2753 Jan 20 03:16	18°♏07'18	
direct	2752 Feb 12 09:03	1°♏44'26		direct	2753 Jan 25 19:24	15°♏36'02	
morning max el	2752 Feb 24 20:43	9°♏09'13	25°58'51	morning max el	2753 Feb 06 05:25	22°♏25'02	24°36'49
desc. node	2752 Feb 26 17:47	11°♏07'25		desc. node	2753 Feb 12 14:51	29°♏40'33	
	2752 Mar 12 06:38	0°♏			2753 Feb 12 21:06	0°♏	
	2752 Mar 30 13:57	0°♎			2753 Mar 05 14:12	0°♏	
morning set	2752 Apr 01 01:50	2°♎44'30		morning set	2753 Mar 14 05:57	14°♏35'50	
max. Earth dist.	2752 Apr 04 23:18	10°♎05'53	1.35503 AU	max. Earth dist.	2753 Mar 17 21:40	21°♏08'45	1.37421 AU
					2753 Mar 22 15:30	0°♎	
superior conj	2752 Apr 10 06:19	20°♎34'27	-1°04'48				
minimum elong	2752 Apr 10 09:38	20°♎51'19	1°04'13	superior conj	2753 Mar 24 14:52	3°♎47'54	-1°31'00
	2752 Apr 14 20:36	0°♏		minimum elong	2753 Mar 24 19:12	4°♎08'57	1°30'26
asc. node	2752 Apr 16 21:42	4°♏13'26		evening rise	2753 Apr 02 04:46	20°♎48'21	
evening rise	2752 Apr 18 03:17	6°♏45'28		asc. node	2753 Apr 03 18:45	23°♎56'23	
	2752 May 01 01:16	0°♎			2753 Apr 06 22:03	0°♏	
evening max el	2752 May 06 07:47	6°♎18'06	20°18'43	evening max el	2753 Apr 19 00:27	18°♏03'53	19°16'07
retrograde	2752 May 17 01:47	11°♎31'38		retrograde	2753 Apr 28 02:04	22°♏27'42	
evening set	2752 May 19 02:13	11°♎21'22		evening set	2753 Apr 30 03:36	22°♏15'00	
desc. node	2752 May 24 17:00	9°♎20'44		inferior conj	2753 May 08 13:08	18°♏05'45	0°52'09
inferior conj	2752 May 28 05:05	7°♎23'01	-1°01'41	minimum elong	2753 May 08 15:14	18°♏02'15	0°51'26
minimum elong	2752 May 28 02:10	7°♎27'17	1°00'36	min. Earth dist.	2753 May 11 09:09	16°♏12'57	0.56231 AU
min. Earth dist.	2752 May 29 18:14	6°♎28'32	0.55116 AU	desc. node	2753 May 11 14:01	16°♏05'08	
morning rise	2752 Jun 06 00:52	3°♎07'54		morning rise	2753 May 16 23:52	13°♏16'27	
direct	2752 Jun 09 21:39	2°♎35'36		direct	2753 May 21 19:46	12°♏22'44	
morning max el	2752 Jun 23 10:08	9°♎11'12	23°37'30	morning max el	2753 Jun 05 00:30	19°♏37'05	25°17'35
	2752 Jul 08 14:54	0°♏			2753 Jun 13 19:40	0°♎	
asc. node	2752 Jul 13 20:57	9°♏56'17		asc. node	2753 Jun 30 18:02	29°♎44'01	
morning set	2752 Jul 17 06:11	16°♏54'25			2753 Jun 30 21:06	0°♏	
	2752 Jul 23 08:26	0°♎		morning set	2753 Jul 01 17:56	1°♏49'32	

superior conj	2753 Jul 08 17:02	16°☿55'41	1°15'08		2754 Jun 22 08:16	0°☿	
minimum elong	2753 Jul 08 14:40	16°☿42'39	1°14'46				
max. Earth dist.	2753 Jul 09 21:12	19°☿29'27	1.32610 AU	superior conj	2754 Jun 23 04:45	1°☿52'50	0°55'45
	2753 Jul 14 19:05	0°♌		minimum elong	2754 Jun 23 02:38	1°☿41'11	0°55'22
evening rise	2753 Jul 15 19:50	2°♌08'23		max. Earth dist.	2754 Jun 23 08:20	2°☿12'36	1.32183 AU
	2753 Jul 31 02:14	0°♍		evening rise	2754 Jun 30 02:21	16°☿50'06	
desc. node	2753 Aug 07 13:23	10°♍52'47			2754 Jul 06 16:25	0°♌	
evening max el	2753 Aug 17 01:40	21°♍48'53	27°20'51	desc. node	2754 Jul 25 10:23	28°♌52'36	
retrograde	2753 Aug 30 20:49	29°♍04'50			2754 Jul 26 09:49	0°♍	
evening set	2753 Sep 07 01:28	26°♍37'15		evening max el	2754 Jul 30 05:06	3°♍57'29	26°45'20
min. Earth dist.	2753 Sep 10 15:41	23°♍44'24	0.62346 AU	retrograde	2754 Aug 13 03:56	11°♍09'53	
inferior conj	2753 Sep 13 14:07	20°♍59'43	-3°53'22	evening set	2754 Aug 20 00:17	9°♍09'09	
minimum elong	2753 Sep 13 19:41	20°♍46'39	3°51'53	min. Earth dist.	2754 Aug 23 19:04	6°♍31'52	0.60338 AU
morning rise	2753 Sep 20 15:29	15°♍55'26		inferior conj	2754 Aug 27 01:11	3°♍51'43	-4°37'54
direct	2753 Sep 23 01:25	15°♍29'32		minimum elong	2754 Aug 27 05:57	3°♍41'54	4°37'08
asc. node	2753 Sep 26 17:13	16°♍30'50			2754 Sep 01 11:52	30°♌♌	
morning max el	2753 Sep 29 20:37	18°♍57'05	17°52'13	morning rise	2754 Sep 03 13:35	29°♌08'53	
	2753 Oct 07 21:45	0°♎		direct	2754 Sep 05 23:10	28°♌47'04	
morning set	2753 Oct 15 21:04	13°♎57'39			2754 Sep 10 05:43	0°♍	
	2753 Oct 24 22:54	0°♏		morning max el	2754 Sep 13 08:55	2°♍25'10	18°08'30
				asc. node	2754 Sep 13 14:18	2°♍38'20	
superior conj	2753 Oct 26 23:11	3°♏26'52	0°50'32	morning set	2754 Sep 29 05:00	27°♍31'39	
minimum elong	2753 Oct 27 03:20	3°♏44'35	0°49'59		2754 Sep 30 12:37	0°♎	
max. Earth dist.	2753 Nov 03 02:12	15°♏18'01	1.43211 AU	superior conj	2754 Oct 08 20:32	15°♎22'12	1°19'23
desc. node	2753 Nov 03 12:43	16°♏00'44		minimum elong	2754 Oct 09 00:39	15°♎40'37	1°18'57
evening rise	2753 Nov 10 15:41	27°♏19'52		max. Earth dist.	2754 Oct 16 11:44	28°♎39'24	1.41441 AU
	2753 Nov 12 08:57	0°♐			2754 Oct 17 06:56	0°♏	
	2753 Dec 02 20:53	0°♑		desc. node	2754 Oct 21 09:44	6°♏46'45	
evening max el	2753 Dec 11 16:35	10°♑42'41	21°33'39	evening rise	2754 Oct 21 16:50	7°♏15'27	
retrograde	2753 Dec 20 15:20	16°♑02'02			2754 Nov 05 13:13	0°♐	
asc. node	2753 Dec 23 16:27	15°♑11'08		evening max el	2754 Nov 24 09:15	24°♐16'40	22°51'41
evening set	2753 Dec 24 21:20	14°♑21'56			2754 Dec 02 15:33	0°♑	
inferior conj	2753 Dec 30 05:43	8°♑05'31	2°05'23	retrograde	2754 Dec 04 10:25	0°♑14'29	
minimum elong	2753 Dec 30 03:21	8°♑13'44	2°04'33		2754 Dec 06 03:31	30°♌♐	
min. Earth dist.	2753 Dec 30 10:29	7°♑49'01	0.67760 AU	evening set	2754 Dec 09 04:31	28°♐17'57	
morning rise	2754 Jan 04 09:11	1°♑53'09		asc. node	2754 Dec 10 13:30	27°♐00'00	
	2754 Jan 07 13:04	30°♌♐		inferior conj	2754 Dec 14 13:21	21°♐55'36	1°19'53
direct	2754 Jan 09 10:25	29°♐42'29		minimum elong	2754 Dec 14 11:38	22°♐01'34	1°19'11
	2754 Jan 11 09:57	0°♒		min. Earth dist.	2754 Dec 14 07:07	22°♐17'08	0.67896 AU
morning max el	2754 Jan 19 14:37	5°♒45'10	23°08'09	morning rise	2754 Dec 19 18:37	15°♐46'17	
desc. node	2754 Jan 30 11:54	18°♒56'32		direct	2754 Dec 24 05:13	13°♐58'24	
	2754 Feb 07 07:25	0°♓		morning max el	2755 Jan 02 03:50	19°♐12'32	21°42'08
morning set	2754 Feb 23 08:55	25°♓11'29			2755 Jan 11 02:49	0°♑	
	2754 Feb 26 05:13	0°♔		desc. node	2755 Jan 17 08:58	8°♑43'26	
max. Earth dist.	2754 Feb 27 16:25	2°♔31'27	1.39566 AU		2755 Jan 31 12:04	0°♓	
				morning set	2755 Feb 03 06:42	4°♓23'24	
superior conj	2754 Mar 07 08:40	16°♔15'04	-1°52'20	max. Earth dist.	2755 Feb 09 15:31	14°♓44'29	1.41671 AU
minimum elong	2754 Mar 07 12:49	16°♔34'17	1°51'59				
	2754 Mar 14 15:21	0°♕		superior conj	2755 Feb 17 06:42	27°♓44'19	-2°04'43
evening rise	2754 Mar 16 21:37	4°♕20'44		minimum elong	2755 Feb 17 08:29	27°♓52'05	2°04'40
asc. node	2754 Mar 21 15:46	13°♕20'32			2755 Feb 18 13:37	0°♔	
	2754 Apr 01 16:17	0°♖		evening rise	2755 Feb 28 02:18	17°♔14'33	
evening max el	2754 Apr 02 02:54	0°♖26'27	18°33'40		2755 Mar 07 03:57	0°♕	
retrograde	2754 Apr 09 20:14	4°♖13'51		asc. node	2755 Mar 08 12:48	2°♕19'37	
evening set	2754 Apr 12 03:49	3°♖54'32		evening max el	2755 Mar 16 11:52	13°♕17'19	18°11'14
	2754 Apr 19 00:33	30°♌♕		retrograde	2755 Mar 23 08:40	16°♕44'54	
inferior conj	2754 Apr 19 17:42	29°♕26'49	2°18'34	evening set	2755 Mar 25 22:30	16°♕16'23	
minimum elong	2754 Apr 19 21:35	29°♕19'15	2°17'30	inferior conj	2755 Apr 01 19:07	11°♕27'41	3°11'51
min. Earth dist.	2754 Apr 23 03:34	26°♕48'40	0.58027 AU	minimum elong	2755 Apr 01 22:07	11°♕20'53	3°11'19
morning rise	2754 Apr 27 12:14	24°♕04'44		min. Earth dist.	2755 Apr 05 03:23	8°♕27'06	0.60157 AU
desc. node	2754 Apr 28 11:04	23°♕39'05		morning rise	2755 Apr 08 19:31	5°♕42'08	
direct	2754 May 03 08:24	22°♕38'01		direct	2755 Apr 15 09:24	3°♕39'23	
	2754 May 17 10:44	0°♗		desc. node	2755 Apr 15 08:06	3°♕39'24	
morning max el	2754 May 17 17:35	0°♗16'33	26°40'49	morning max el	2755 Apr 29 16:32	11°♕30'28	27°34'02
	2754 Jun 07 17:07	0°♘			2755 May 14 04:00	0°♗	
morning set	2754 Jun 16 04:21	16°♘39'28			2755 May 30 20:32	0°♘	
asc. node	2754 Jun 17 15:06	19°♘43'44					

morning set	2755 May 31 11:37	1° Π 17'52		max. Earth dist.	2756 May 20 04:57	27° \mathcal{B} 27'04	1.32528 AU
asc. node	2755 Jun 04 12:07	9° Π 50'09		asc. node	2756 May 21 09:08	29° \mathcal{B} 59'16	
max. Earth dist.	2755 Jun 06 20:12	14° Π 56'02	1.32155 AU		2756 May 21 09:16	0° Π	
superior conj	2755 Jun 07 16:15	16° Π 46'06	0°32'55	superior conj	2756 May 22 01:50	1° Π 29'56	0°07'20
minimum elong	2755 Jun 07 14:49	16° Π 38'18	0°32'38	minimum elong	2756 May 22 01:29	1° Π 28'03	0°07'16
	2755 Jun 13 17:42	0° \mathcal{E}		behind sun begin	2756 May 21 20:51	1° Π 02'54	
evening rise	2755 Jun 14 12:28	1° \mathcal{E} 40'01		behind sun end	2756 May 22 06:07	1° Π 53'13	
	2755 Jun 29 20:40	0° Ω		evening rise	2756 May 29 00:14	16° Π 31'33	
evening max el	2755 Jul 12 01:22	15° Ω 18'27	25°38'27		2756 Jun 04 16:30	0° \mathcal{E}	
desc. node	2755 Jul 12 07:24	15° Ω 32'43		evening max el	2756 Jun 22 15:39	25° \mathcal{E} 59'20	24°09'15
retrograde	2755 Jul 26 01:19	22° Ω 26'10			2756 Jun 27 14:24	0° Ω	
evening set	2755 Aug 01 00:37	21° Ω 02'18		desc. node	2756 Jun 28 04:23	0° Ω 22'03	
min. Earth dist.	2755 Aug 05 13:32	18° Ω 23'12	0.58287 AU	retrograde	2756 Jul 06 11:03	2° Ω 56'47	
inferior conj	2755 Aug 08 18:19	16° Ω 06'49	-5°01'57	evening set	2756 Jul 11 01:23	2° Ω 09'54	
minimum elong	2755 Aug 08 19:41	16° Ω 04'23	5°01'54		2756 Jul 15 17:34	30° \mathcal{R} \mathcal{E}	
morning rise	2755 Aug 16 17:02	11° Ω 46'45		min. Earth dist.	2756 Jul 17 02:18	29° \mathcal{E} 11'44	0.56479 AU
direct	2755 Aug 19 05:14	11° Ω 26'53		inferior conj	2756 Jul 19 15:13	27° \mathcal{E} 37'10	-4°51'16
morning max el	2755 Aug 27 14:20	15° Ω 25'35	18°45'20	minimum elong	2756 Jul 19 11:01	27° \mathcal{E} 43'44	4°50'49
asc. node	2755 Aug 31 11:21	19° Ω 52'28		morning rise	2756 Jul 27 23:17	23° \mathcal{E} 37'06	
	2755 Sep 06 20:30	0° \mathcal{M}		direct	2756 Jul 30 16:10	23° \mathcal{E} 17'54	
morning set	2755 Sep 12 24:00	11° \mathcal{M} 37'22		morning max el	2756 Aug 09 10:00	27° \mathcal{E} 49'22	19°43'40
					2756 Aug 11 12:45	0° Ω	
superior conj	2755 Sep 21 14:37	28° \mathcal{M} 18'27	1°36'52	asc. node	2756 Aug 17 08:23	7° Ω 58'51	
minimum elong	2755 Sep 21 17:10	28° \mathcal{M} 30'34	1°36'41	morning set	2756 Aug 27 02:35	26° Ω 05'21	
	2755 Sep 22 12:10	0° Ω			2756 Aug 29 00:57	0° \mathcal{M}	
max. Earth dist.	2755 Sep 28 17:04	11° Ω 18'48	1.39412 AU	superior conj	2756 Sep 03 24:00	12° \mathcal{M} 00'28	1°44'31
evening rise	2755 Oct 02 16:59	18° Ω 14'24		minimum elong	2756 Sep 04 00:44	12° \mathcal{M} 04'10	1°44'29
desc. node	2755 Oct 08 06:45	27° Ω 27'07		max. Earth dist.	2756 Sep 09 21:35	23° \mathcal{M} 22'58	1.37373 AU
	2755 Oct 09 21:04	0° \mathcal{M}		evening rise	2756 Sep 13 16:12	0° Ω 17'36	
	2755 Oct 30 22:25	0° \mathcal{M}			2756 Sep 13 12:17	0° Ω	
evening max el	2755 Nov 06 22:40	7° \mathcal{M} 53'58	24°11'31	desc. node	2756 Sep 24 03:45	17° Ω 57'32	
retrograde	2755 Nov 18 01:54	14° \mathcal{M} 25'45			2756 Oct 02 02:49	0° \mathcal{M}	
evening set	2755 Nov 23 09:36	12° \mathcal{M} 12'33		evening max el	2756 Oct 19 10:45	21° \mathcal{M} 34'04	25°26'17
asc. node	2755 Nov 27 10:32	7° \mathcal{M} 41'08		retrograde	2756 Oct 31 13:02	28° \mathcal{M} 31'34	
min. Earth dist.	2755 Nov 28 03:20	6° \mathcal{M} 45'10	0.67687 AU	evening set	2756 Nov 06 10:55	26° \mathcal{M} 03'19	
inferior conj	2755 Nov 28 20:13	5° \mathcal{M} 48'17	0°28'47	min. Earth dist.	2756 Nov 10 20:47	21° \mathcal{M} 10'46	0.67138 AU
minimum elong	2755 Nov 28 19:32	5° \mathcal{M} 50'37	0°28'29	inferior conj	2756 Nov 12 00:33	19° \mathcal{M} 41'18	-0°26'42
	2755 Dec 03 21:19	30° \mathcal{R} \mathcal{M}		minimum elong	2756 Nov 12 01:14	19° \mathcal{M} 39'05	0°26'24
morning rise	2755 Dec 04 05:28	29° \mathcal{M} 44'17		asc. node	2756 Nov 13 07:35	18° \mathcal{M} 02'42	
direct	2755 Dec 08 02:32	28° \mathcal{M} 18'35		morning rise	2756 Nov 17 15:49	13° \mathcal{M} 45'03	
	2755 Dec 12 16:32	0° \mathcal{M}		direct	2756 Nov 21 01:03	12° \mathcal{M} 39'00	
morning max el	2755 Dec 16 00:11	2° \mathcal{M} 50'41	20°25'40	morning max el	2756 Nov 28 04:29	16° \mathcal{M} 39'44	19°22'43
desc. node	2756 Jan 04 06:00	28° \mathcal{M} 52'24			2756 Dec 08 11:08	0° \mathcal{M}	
	2756 Jan 04 23:59	0° \mathcal{B}		greatest brilliancy	2756 Dec 11 17:06	4° \mathcal{M} 50'37	-0.7m
morning set	2756 Jan 13 06:06	12° \mathcal{B} 36'47		desc. node	2756 Dec 21 03:01	19° \mathcal{M} 17'12	
max. Earth dist.	2756 Jan 22 22:41	27° \mathcal{B} 54'18	1.43442 AU	morning set	2756 Dec 22 05:18	20° \mathcal{M} 58'58	
	2756 Jan 24 05:50	0° \approx			2756 Dec 28 00:30	0° \mathcal{B}	
superior conj	2756 Jan 29 04:04	8° \approx 04'32	-2°03'05	max. Earth dist.	2757 Jan 04 12:42	11° \mathcal{B} 46'47	1.44655 AU
minimum elong	2756 Jan 29 00:47	7° \approx 50'58	2°03'00	superior conj	2757 Jan 07 23:32	17° \mathcal{B} 15'30	-1°42'59
evening rise	2756 Feb 10 14:36	29° \approx 21'15		minimum elong	2757 Jan 07 15:12	16° \mathcal{B} 42'19	1°42'17
	2756 Feb 10 23:28	0° \mathcal{H}			2757 Jan 15 20:57	0° \approx	
asc. node	2756 Feb 23 09:49	20° \mathcal{H} 45'41		evening rise	2757 Jan 22 06:17	10° \approx 32'50	
evening max el	2756 Feb 28 00:02	26° \mathcal{H} 27'11	18°08'18		2757 Feb 03 03:08	0° \mathcal{H}	
retrograde	2756 Mar 05 11:37	29° \mathcal{H} 50'32		asc. node	2757 Feb 09 06:51	8° \mathcal{H} 28'00	
evening set	2756 Mar 08 06:54	29° \mathcal{H} 11'31		evening max el	2757 Feb 10 12:25	9° \mathcal{H} 47'50	18°24'12
inferior conj	2756 Mar 14 14:08	24° \mathcal{H} 02'14	3°36'44	retrograde	2757 Feb 17 00:18	13° \mathcal{H} 20'01	
minimum elong	2756 Mar 14 15:16	23° \mathcal{H} 59'18	3°36'40	evening set	2757 Feb 20 01:02	12° \mathcal{H} 29'41	
min. Earth dist.	2756 Mar 17 11:18	21° \mathcal{H} 04'04	0.62279 AU	inferior conj	2757 Feb 25 22:36	7° \mathcal{H} 01'31	3°40'03
morning rise	2756 Mar 20 22:21	18° \mathcal{H} 02'20		minimum elong	2757 Feb 25 21:59	7° \mathcal{H} 03'18	3°40'03
direct	2756 Mar 27 20:02	15° \mathcal{H} 30'23		min. Earth dist.	2757 Feb 28 04:47	4° \mathcal{H} 25'29	0.64165 AU
desc. node	2756 Apr 01 05:08	16° \mathcal{H} 24'51		morning rise	2757 Mar 03 18:16	0° \mathcal{H} 53'34	
morning max el	2756 Apr 10 21:34	23° \mathcal{H} 26'47	27°50'32		2757 Mar 04 22:38	30° \mathcal{R} \approx	
	2756 Apr 16 18:14	0° \mathcal{Y}		direct	2757 Mar 10 14:45	28° \approx 05'08	
	2756 May 06 10:01	0° \mathcal{B}			2757 Mar 16 20:23	0° \mathcal{H}	
morning set	2756 May 14 13:45	15° \mathcal{B} 38'29					

desc. node	2757 Mar 19 02:10	1° H 27'55		desc. node	2758 Mar 05 23:14	18° \approx 14'16	
morning max el	2757 Mar 24 06:29	5° H 59'24	27°30'25	morning max el	2758 Mar 06 16:24	18° \approx 56'52	26°39'03
	2757 Apr 11 14:03	0° Y			2758 Mar 16 01:37	0° H	
morning set	2757 Apr 28 08:10	29° Y 32'10			2758 Apr 04 14:19	0° Y	
	2757 Apr 28 13:48	0° B		morning set	2758 Apr 11 15:28	12° Y 48'52	
max. Earth dist.	2757 May 03 06:24	9° B 31'41	1.33321 AU	max. Earth dist.	2758 Apr 15 20:59	21° Y 01'57	1.34570 AU
superior conj	2757 May 06 07:36	15° B 57'21	-0°20'15	superior conj	2758 Apr 20 07:24	0° B 02'08	-0°48'40
minimum elong	2757 May 06 08:37	16° B 02'46	0°20'02	minimum elong	2758 Apr 20 09:55	0° B 15'07	0°48'11
asc. node	2757 May 08 06:09	20° B 06'15			2758 Apr 20 06:59	0° B	
	2757 May 12 21:04	0° II		asc. node	2758 Apr 25 03:11	10° B 07'12	
evening rise	2757 May 13 11:41	1° II 17'13		evening rise	2758 Apr 27 20:59	15° B 51'05	
	2757 May 29 16:12	0° E			2758 May 05 01:33	0° II	
evening max el	2757 Jun 04 06:00	6° E 25'58	22°32'46	evening max el	2758 May 17 04:18	17° II 11'12	21°03'21
desc. node	2757 Jun 15 01:23	12° E 44'40		retrograde	2758 May 28 22:14	22° II 55'26	
retrograde	2757 Jun 17 08:48	12° E 56'53		evening set	2758 May 31 03:01	22° II 44'06	
evening set	2757 Jun 20 11:50	12° E 35'20		desc. node	2758 Jun 01 22:25	22° II 18'50	
min. Earth dist.	2757 Jun 28 13:28	9° E 04'32	0.55246 AU	inferior conj	2758 Jun 09 11:37	18° II 46'01	-2°10'49
inferior conj	2757 Jun 29 17:53	8° E 24'07	-3°53'11	minimum elong	2758 Jun 09 05:34	18° II 54'33	2°08'44
minimum elong	2757 Jun 29 09:50	8° E 35'35	3°51'12	min. Earth dist.	2758 Jun 10 01:34	18° II 26'18	0.54881 AU
morning rise	2757 Jul 08 10:00	4° E 32'53		morning rise	2758 Jun 18 08:08	14° II 44'41	
direct	2757 Jul 11 09:11	4° E 12'47		direct	2758 Jun 21 18:39	14° II 19'09	
morning max el	2757 Jul 22 18:13	9° E 29'53	21°02'51	morning max el	2758 Jul 04 15:48	20° II 28'04	22°38'29
asc. node	2757 Aug 04 05:25	26° E 45'01			2758 Jul 12 16:18	0° E	
	2757 Aug 05 23:45	0° O		asc. node	2758 Jul 22 02:27	16° E 01'12	
morning set	2757 Aug 11 10:10	10° O 48'13		morning set	2758 Jul 26 20:43	25° E 40'05	
					2758 Jul 28 21:52	0° O	
superior conj	2757 Aug 18 20:12	26° O 15'02	1°44'04	superior conj	2758 Aug 02 23:48	10° O 51'28	1°36'59
minimum elong	2757 Aug 18 19:25	26° O 11'01	1°44'02	minimum elong	2758 Aug 02 22:00	10° O 41'51	1°36'50
	2757 Aug 20 16:11	0° np		max. Earth dist.	2758 Aug 06 00:34	17° O 13'57	1.34090 AU
max. Earth dist.	2757 Aug 23 06:43	5° np 13'25	1.35550 AU	evening rise	2758 Aug 10 19:55	26° O 56'52	
evening rise	2757 Aug 27 10:42	13° np 15'48			2758 Aug 12 09:39	0° np	
	2757 Sep 05 21:47	0° A		desc. node	2758 Aug 28 21:46	28° np 05'11	
desc. node	2757 Sep 11 00:45	8° A 12'40			2758 Aug 30 05:01	0° A	
	2757 Sep 27 00:58	0° M		evening max el	2758 Sep 14 11:11	18° A 43'11	27°10'53
evening max el	2757 Oct 01 22:54	5° M 13'18	26°28'35	retrograde	2758 Sep 27 19:57	26° A 01'27	
retrograde	2757 Oct 14 19:17	12° M 26'17		evening set	2758 Oct 04 18:12	23° A 18'37	
evening set	2757 Oct 21 06:35	9° M 47'06		min. Earth dist.	2758 Oct 08 14:25	19° A 37'44	0.64991 AU
min. Earth dist.	2757 Oct 25 09:15	5° M 30'29	0.66239 AU	inferior conj	2758 Oct 10 17:49	17° A 14'49	-2°24'43
inferior conj	2757 Oct 27 00:29	3° M 31'53	-1°25'09	minimum elong	2758 Oct 10 21:46	17° A 03'51	2°23'13
minimum elong	2757 Oct 27 02:47	3° M 24'56	1°24'11	morning rise	2758 Oct 17 02:16	11° A 42'14	
	2757 Oct 30 03:32	30° R A		asc. node	2758 Oct 18 01:41	11° A 19'40	
asc. node	2757 Oct 31 04:37	29° A 02'01		direct	2758 Oct 19 18:25	11° A 04'16	
morning rise	2757 Nov 01 23:34	27° A 45'57		morning max el	2758 Oct 26 06:27	14° A 33'07	18°04'42
direct	2757 Nov 04 23:02	26° A 55'55			2758 Nov 06 05:58	0° M	
	2757 Nov 11 00:31	0° M		morning set	2758 Nov 13 05:55	11° M 34'33	
morning max el	2757 Nov 11 15:25	0° M 36'08	18°35'25	desc. node	2758 Nov 24 21:06	0° A 36'29	
	2757 Dec 01 18:36	0° A			2758 Nov 24 12:00	0° A	
morning set	2757 Dec 02 02:55	0° A 33'05		superior conj	2758 Nov 27 09:05	4° A 36'17	-0°16'53
desc. node	2757 Dec 08 00:04	9° A 53'24		minimum elong	2758 Nov 27 06:58	4° A 27'52	0°16'36
superior conj	2757 Dec 18 02:34	25° A 47'46	-1°04'44	max. Earth dist.	2758 Dec 01 01:34	10° A 26'46	1.44958 AU
minimum elong	2757 Dec 17 18:43	25° A 16'56	1°03'46	evening rise	2758 Dec 13 18:08	0° B 13'39	
max. Earth dist.	2757 Dec 18 06:38	26° A 03'43	1.45177 AU		2758 Dec 13 14:36	0° B	
	2757 Dec 20 18:51	0° B		greatest brilliancy	2758 Dec 27 05:27	20° B 49'10	-0.7m
evening rise	2758 Jan 02 22:45	20° B 47'31			2759 Jan 02 15:14	0° \approx	
	2758 Jan 08 17:29	0° \approx		evening max el	2759 Jan 08 04:54	6° \approx 45'07	19°48'01
greatest brilliancy	2758 Jan 11 14:27	4° \approx 33'09	-0.8m	asc. node	2759 Jan 14 00:56	10° \approx 51'03	
evening max el	2758 Jan 24 22:41	23° \approx 15'00	18°57'56	retrograde	2759 Jan 15 16:17	11° \approx 05'45	
asc. node	2758 Jan 27 03:53	25° \approx 14'40		evening set	2759 Jan 19 06:53	9° \approx 49'37	
retrograde	2758 Jan 31 18:53	27° \approx 06'55		inferior conj	2759 Jan 24 17:48	3° \approx 50'12	3°02'40
evening set	2758 Feb 04 01:51	26° \approx 04'19		minimum elong	2759 Jan 24 15:20	3° \approx 58'23	3°02'06
inferior conj	2758 Feb 09 16:51	20° \approx 19'19	3°27'23	min. Earth dist.	2759 Jan 25 18:12	2° \approx 29'13	0.66818 AU
minimum elong	2758 Feb 09 15:01	20° \approx 25'05	3°27'08		2759 Jan 27 17:22	30° R B	
min. Earth dist.	2758 Feb 11 07:37	18° \approx 17'56	0.65695 AU	morning rise	2759 Jan 29 23:34	27° B 36'52	
morning rise	2758 Feb 15 03:49	14° \approx 07'26		direct	2759 Feb 05 00:00	24° B 55'43	
direct	2758 Feb 21 16:28	11° \approx 16'33					

	2759 Feb 14 20:11	0°♊		inferior conj	2760 Jan 08 22:57	17°♊30'26	2°28'32
morning max el	2759 Feb 17 01:20	2°♊07'03	25°25'17	minimum elong	2760 Jan 08 20:24	17°♊39'10	2°27'45
desc. node	2759 Feb 20 20:18	6°♊14'27		min. Earth dist.	2760 Jan 09 10:27	16°♊50'59	0.67533 AU
	2759 Mar 10 04:34	0°♋		morning rise	2760 Jan 14 02:30	11°♊17'26	
morning set	2759 Mar 25 07:06	25°♋15'27		direct	2760 Jan 19 12:27	8°♊54'22	
	2759 Mar 27 21:04	0°♌		morning max el	2760 Jan 30 09:44	15°♊23'43	23°59'13
max. Earth dist.	2759 Mar 28 23:59	2°♌06'00	1.36272 AU	desc. node	2760 Feb 07 17:21	25°♊07'08	
					2760 Feb 11 09:19	0°♊	
superior conj	2759 Apr 03 22:31	13°♌36'53	-1°16'19		2760 Mar 02 03:34	0°♋	
minimum elong	2759 Apr 04 02:21	13°♌56'01	1°15'42	morning set	2760 Mar 06 01:11	6°♋35'37	
evening rise	2759 Apr 12 02:01	0°♍06'59		max. Earth dist.	2760 Mar 09 19:57	13°♋13'05	1.38323 AU
asc. node	2759 Apr 12 00:14	29°♌58'00					
	2759 Apr 12 00:38	0°♎		superior conj	2760 Mar 17 01:21	26°♋31'52	-1°40'52
evening max el	2759 Apr 29 14:24	28°♎33'55	19°49'47	minimum elong	2760 Mar 17 05:49	26°♋53'05	1°40'22
	2759 May 01 04:54	0°♏			2760 Mar 18 20:52	0°♌	
retrograde	2759 May 09 14:30	3°♏24'39		evening rise	2760 Mar 26 00:12	13°♌57'33	
evening set	2759 May 11 14:25	3°♏13'56		asc. node	2760 Mar 28 21:18	19°♌33'26	
	2759 May 19 03:41	30°♏8			2760 Apr 03 15:18	0°♍	
desc. node	2759 May 19 19:27	29°♏36'11		evening max el	2760 Apr 11 11:36	10°♍35'48	18°55'35
inferior conj	2759 May 20 10:44	29°♏12'47	-0°11'11	retrograde	2760 Apr 19 21:52	14°♍42'01	
minimum elong	2759 May 20 10:14	29°♏13'34	0°10'59	evening set	2760 Apr 22 01:58	14°♍26'46	
transit middle	2759 May 20 10:14	29°♏13'34	0°10'59	inferior conj	2760 Apr 30 03:00	10°♍09'59	1°32'56
transit begin	2759 May 20 07:22	29°♏17'59		minimum elong	2760 Apr 30 06:16	10°♍04'08	1°31'52
transit end	2759 May 20 13:06	29°♏09'08		min. Earth dist.	2760 May 03 06:56	7°♍55'54	0.56930 AU
min. Earth dist.	2759 May 22 15:08	27°♍52'29	0.55485 AU	desc. node	2760 May 05 16:30	6°♍24'45	
morning rise	2759 May 29 03:48	24°♍43'56		morning rise	2760 May 08 07:27	5°♍06'19	
direct	2759 Jun 02 10:02	24°♍03'51		direct	2760 May 13 14:11	3°♍59'46	
	2759 Jun 15 05:38	0°♎		morning max el	2760 May 27 21:36	11°♍25'12	25°56'05
morning max el	2759 Jun 16 06:51	0°♎57'53	24°21'06		2760 Jun 11 05:07	0°♏	
	2759 Jul 06 03:17	0°♐		morning set	2760 Jun 24 19:55	25°♏29'13	
asc. node	2759 Jul 08 23:31	5°♐39'29		asc. node	2760 Jun 24 20:34	25°♏32'36	
morning set	2759 Jul 11 08:32	10°♐35'53			2760 Jun 26 22:37	0°♑	
superior conj	2759 Jul 18 08:13	25°♑41'45	1°24'28	superior conj	2760 Jul 01 19:13	10°♑37'35	1°07'23
minimum elong	2759 Jul 18 05:54	25°♑29'09	1°24'11	minimum elong	2760 Jul 01 16:54	10°♑24'49	1°07'00
max. Earth dist.	2759 Jul 20 03:32	29°♑35'49	1.33036 AU	max. Earth dist.	2760 Jul 02 12:47	12°♑14'04	1.32382 AU
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evening rise	2759 Jul 25 15:55	11°♒09'31			2760 Jul 10 21:33	0°♒	
	2759 Aug 04 16:00	0°♓			2760 Jul 28 05:32	0°♓	
desc. node	2759 Aug 15 18:48	17°♓25'37		desc. node	2760 Aug 01 15:48	5°♓59'42	
	2759 Aug 26 00:52	0°♈		evening max el	2760 Aug 09 05:00	14°♓25'27	27°09'49
evening max el	2759 Aug 27 22:09	1°♈52'14	27°26'15	retrograde	2760 Aug 23 01:30	21°♓39'03	
retrograde	2759 Sep 10 14:17	9°♈09'00		evening set	2760 Aug 30 04:15	19°♓21'22	
evening set	2759 Sep 17 18:45	6°♈32'33		min. Earth dist.	2760 Sep 02 19:16	16°♓37'08	0.61521 AU
min. Earth dist.	2759 Sep 21 10:12	3°♈24'14	0.63408 AU	inferior conj	2760 Sep 05 21:41	13°♓52'27	-4°13'59
inferior conj	2759 Sep 24 01:58	0°♈44'34	-3°22'31	minimum elong	2760 Sep 06 03:11	13°♓40'15	4°12'46
minimum elong	2759 Sep 24 07:12	0°♈31'25	3°20'53	morning rise	2760 Sep 13 03:46	8°♓56'54	
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direct	2759 Oct 03 08:25	24°♈59'09		morning max el	2760 Sep 22 13:29	12°♈03'25	17°56'42
asc. node	2759 Oct 04 22:44	25°♈11'40			2760 Oct 04 13:34	0°♉	
morning max el	2759 Oct 09 22:50	28°♈24'46	17°51'27	morning set	2760 Oct 08 09:54	6°♉59'36	
	2759 Oct 11 10:09	0°♉					
morning set	2759 Oct 26 10:23	23°♉49'51		superior conj	2760 Oct 18 20:00	25°♉42'31	1°04'13
	2759 Oct 29 23:36	0°♊		minimum elong	2760 Oct 19 00:25	26°♉01'44	1°03'41
					2760 Oct 21 07:42	0°♊	
superior conj	2759 Nov 07 13:00	14°♊29'26	0°28'36	max. Earth dist.	2760 Oct 26 08:05	8°♊25'12	1.42514 AU
minimum elong	2759 Nov 07 15:53	14°♊41'22	0°28'12	desc. node	2760 Oct 28 15:09	12°♊10'18	
desc. node	2759 Nov 11 18:08	21°♊23'12		evening rise	2760 Nov 01 18:08	18°♊46'21	
max. Earth dist.	2759 Nov 13 18:58	24°♊39'47	1.44035 AU		2760 Nov 09 00:28	0°♋	
	2759 Nov 17 03:31	0°♋			2760 Nov 30 14:11	0°♌	
evening rise	2759 Nov 23 03:06	9°♋19'39		evening max el	2760 Dec 04 01:07	3°♌48'41	22°06'11
	2759 Dec 06 20:42	0°♍		retrograde	2760 Dec 13 10:44	9°♌24'21	
evening max el	2759 Dec 22 05:49	20°♍16'22	20°51'58	evening set	2760 Dec 17 21:48	7°♌37'05	
retrograde	2759 Dec 30 14:10	25°♍12'39		asc. node	2760 Dec 17 19:02	7°♍42'38	
asc. node	2759 Dec 31 22:00	25°♍02'54		inferior conj	2760 Dec 23 06:12	1°♍17'37	1°46'48
evening set	2760 Jan 03 14:07	23°♍41'31		minimum elong	2760 Dec 23 04:03	1°♍25'05	1°46'01




































































































































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	2760 Dec 24 04:42	30°♄13'36		minimum elong	2761 Dec 07 12:22	15°♄13'36	0°58'15
morning rise	2760 Dec 28 10:10	25°♄06'34		morning rise	2761 Dec 12 20:25	9°♄01'44	
direct	2761 Jan 02 05:04	23°♄05'43		direct	2761 Dec 17 00:58	7°♄23'44	
morning max el	2761 Jan 11 20:20	28°♄47'02	22°30'48	morning max el	2761 Dec 25 12:27	12°♄19'12	21°08'08
	2761 Jan 13 00:26	0°♄			2762 Jan 08 07:49	0°♄	
desc. node	2761 Jan 24 14:23	14°♄37'25		desc. node	2762 Jan 11 11:24	4°♄34'17	
	2761 Feb 04 03:08	0°♄		morning set	2762 Jan 25 02:22	25°♄16'51	
morning set	2761 Feb 14 15:54	16°♄35'37			2762 Jan 28 01:58	0°♄	
max. Earth dist.	2761 Feb 19 16:25	24°♄57'32	1.40485 AU	max. Earth dist.	2762 Feb 01 18:36	7°♄34'25	1.42478 AU
	2761 Feb 22 14:51	0°♄					
				superior conj	2762 Feb 08 23:21	19°♄36'05	-2°06'03
superior conj	2761 Feb 27 11:24	8°♄35'58	-1°58'57	minimum elong	2762 Feb 08 23:15	19°♄35'42	2°06'03
minimum elong	2761 Feb 27 14:53	8°♄51'40	1°58'45		2762 Feb 14 22:47	0°♄	
evening rise	2761 Mar 09 12:23	27°♄15'05		evening rise	2762 Feb 20 10:37	9°♄49'36	
	2761 Mar 10 23:26	0°♄		asc. node	2762 Mar 02 15:22	27°♄34'02	
asc. node	2761 Mar 15 18:20	8°♄48'02			2762 Mar 04 05:31	0°♄	
evening max el	2761 Mar 25 17:10	23°♄11'11	18°21'38	evening max el	2762 Mar 09 03:47	6°♄10'30	18°07'38
retrograde	2761 Apr 02 00:27	26°♄48'32		retrograde	2762 Mar 15 19:35	9°♄34'49	
evening set	2761 Apr 04 10:40	26°♄25'35		evening set	2762 Mar 18 11:40	9°♄02'07	
inferior conj	2761 Apr 11 16:44	21°♄48'42	2°45'04	inferior conj	2762 Mar 25 02:08	4°♄04'41	3°25'25
minimum elong	2761 Apr 11 20:28	21°♄40'55	2°44'11	minimum elong	2762 Mar 25 04:23	3°♄59'17	3°25'08
min. Earth dist.	2761 Apr 15 03:17	18°♄58'02	0.58910 AU	min. Earth dist.	2762 Mar 28 06:33	1°♄01'56	0.61074 AU
morning rise	2761 Apr 19 03:29	16°♄15'09			2762 Mar 29 10:33	30°♄	
desc. node	2761 Apr 22 13:32	14°♄53'42		morning rise	2762 Mar 31 19:13	28°♄11'42	
direct	2761 Apr 25 08:02	14°♄33'12		direct	2762 Apr 07 13:32	25°♄55'02	
morning max el	2761 May 09 17:12	22°♄18'05	27°07'49	desc. node	2762 Apr 09 10:34	26°♄04'58	
	2761 May 16 12:17	0°♄			2762 Apr 17 10:34	0°♄	
	2761 Jun 04 03:14	10°♄14'46		morning max el	2762 Apr 21 19:03	3°♄50'13	27°45'40
morning set	2761 Jun 09 05:12	15°♄35'30			2762 May 11 03:22	0°♄	
asc. node	2761 Jun 11 17:36	15°♄35'30		morning set	2762 May 24 10:33	24°♄46'16	
					2762 May 26 22:36	0°♄	
superior conj	2761 Jun 16 07:01	25°♄33'15	0°46'28	asc. node	2762 May 29 14:38	5°♄43'29	
minimum elong	2761 Jun 16 05:08	25°♄22'57	0°46'05	max. Earth dist.	2762 May 30 11:36	7°♄37'26	1.32256 AU
max. Earth dist.	2761 Jun 16 00:45	24°♄58'44	1.32123 AU				
	2761 Jun 18 07:27	0°♄		superior conj	2762 May 31 17:54	10°♄22'56	0°22'22
evening rise	2761 Jun 23 03:36	10°♄27'55		minimum elong	2762 May 31 16:53	10°♄17'25	0°22'09
	2761 Jul 03 04:19	0°♄		evening rise	2762 Jun 07 14:37	25°♄18'44	
desc. node	2761 Jul 19 12:48	23°♄28'26			2762 Jun 09 20:20	0°♄	
evening max el	2761 Jul 22 05:12	26°♄12'25	26°20'13		2762 Jun 27 12:42	0°♄	
	2761 Jul 26 19:43	0°♄		evening max el	2762 Jul 03 22:21	7°♄13'49	25°02'29
retrograde	2761 Aug 05 04:42	3°♄23'28		desc. node	2762 Jul 06 09:48	9°♄25'38	
evening set	2761 Aug 11 17:57	1°♄37'12		retrograde	2762 Jul 17 21:52	14°♄19'20	
	2761 Aug 14 09:36	30°♄		evening set	2762 Jul 23 08:03	13°♄11'56	
min. Earth dist.	2761 Aug 15 18:13	29°♄01'44	0.59457 AU	min. Earth dist.	2762 Jul 28 09:58	10°♄26'26	0.57458 AU
inferior conj	2761 Aug 19 01:26	26°♄29'01	-4°51'24	inferior conj	2762 Jul 31 10:04	8°♄25'38	-5°02'38
minimum elong	2761 Aug 19 05:06	26°♄21'54	4°50'59	minimum elong	2762 Jul 31 09:12	8°♄27'07	5°02'36
morning rise	2761 Aug 26 18:23	21°♄56'17		morning rise	2762 Aug 08 12:54	4°♄14'58	
direct	2761 Aug 29 04:49	21°♄35'30		direct	2762 Aug 11 02:39	3°♄55'41	
morning max el	2761 Sep 05 23:16	25°♄20'38	18°21'40	morning max el	2762 Aug 20 00:57	8°♄07'04	19°07'35
asc. node	2761 Sep 07 16:49	27°♄10'16		asc. node	2762 Aug 25 13:51	14°♄48'20	
	2761 Sep 09 22:34	0°♄			2762 Sep 03 07:34	0°♄	
morning set	2761 Sep 21 22:59	20°♄47'57		morning set	2762 Sep 05 21:35	5°♄04'09	
	2761 Sep 26 18:46	0°♄					
				superior conj	2762 Sep 14 04:06	21°♄23'38	1°41'12
superior conj	2761 Oct 01 02:52	8°♄05'48	1°28'07	minimum elong	2762 Sep 14 05:53	21°♄32'14	1°41'06
minimum elong	2761 Oct 01 06:24	8°♄22'02	1°27'47		2762 Sep 18 17:17	0°♄	
max. Earth dist.	2761 Oct 08 15:29	21°♄28'21	1.40591 AU	max. Earth dist.	2762 Sep 20 19:24	3°♄49'18	1.38523 AU
evening rise	2761 Oct 13 04:31	29°♄07'02		evening rise	2762 Sep 24 14:51	10°♄34'38	
	2761 Oct 13 17:23	0°♄		desc. node	2762 Oct 02 09:09	23°♄31'05	
desc. node	2761 Oct 15 12:08	2°♄54'07			2762 Oct 06 12:28	0°♄	
	2761 Nov 02 13:19	0°♄			2762 Oct 29 03:53	0°♄	
evening max el	2761 Nov 16 15:57	17°♄23'11	23°25'45	evening max el	2762 Oct 30 04:34	1°♄02'15	24°44'22
retrograde	2761 Nov 27 04:32	23°♄36'52		retrograde	2762 Nov 10 18:27	7°♄46'49	
evening set	2761 Dec 02 04:17	21°♄33'00		evening set	2762 Nov 16 08:01	5°♄27'03	
asc. node	2761 Dec 04 16:04	18°♄58'23		min. Earth dist.	2762 Nov 20 22:19	0°♄14'02	0.67492 AU
min. Earth dist.	2761 Dec 07 02:51	15°♄46'16	0.67846 AU		2762 Nov 21 02:34	30°♄	

inferior conj	2762 Nov 21 19:45	29° \mathbb{M} 02'57	0°05'44	retrograde	2763 Oct 25 03:30	21° \mathbb{M} 48'26	
minimum elong	2762 Nov 21 19:36	29° \mathbb{M} 03'26	0°05'41	evening set	2763 Oct 31 07:11	19° \mathbb{M} 15'13	
transit middle	2762 Nov 21 19:36	29° \mathbb{M} 03'26	0°05'41	min. Earth dist.	2763 Nov 04 14:03	14° \mathbb{M} 37'37	0.66799 AU
transit begin	2762 Nov 21 17:01	29° \mathbb{M} 12'00		inferior conj	2763 Nov 05 22:29	12° \mathbb{M} 55'37	-0°51'10
transit end	2762 Nov 21 22:11	28° \mathbb{M} 54'52		minimum elong	2763 Nov 05 23:49	12° \mathbb{M} 51'22	0°50'35
asc. node	2762 Nov 21 13:04	29° \mathbb{M} 25'08		asc. node	2763 Nov 08 10:07	9° \mathbb{M} 56'19	
morning rise	2762 Nov 27 07:18	23° \mathbb{M} 01'41		morning rise	2763 Nov 11 16:49	7° \mathbb{M} 03'07	
direct	2762 Nov 30 23:03	21° \mathbb{M} 44'45		direct	2763 Nov 14 21:42	6° \mathbb{M} 04'11	
morning max el	2762 Dec 08 12:13	26° \mathbb{M} 02'35	19°57'00	morning max el	2763 Nov 21 19:29	9° \mathbb{M} 54'55	19°00'35
	2762 Dec 12 00:32	0° \mathbb{A}			2763 Dec 06 09:06	0° \mathbb{A}	
desc. node	2762 Dec 29 08:26	24° \mathbb{A} 50'50		morning set	2763 Dec 14 05:14	12° \mathbb{A} 12'32	
	2763 Jan 01 17:16	0° \mathbb{B}		desc. node	2763 Dec 16 05:29	15° \mathbb{A} 21'08	
morning set	2763 Jan 03 22:22	3° \mathbb{B} 24'25			2763 Dec 25 14:04	0° \mathbb{B}	
max. Earth dist.	2763 Jan 15 04:23	21° \mathbb{B} 02'30	1.44041 AU	max. Earth dist.	2763 Dec 28 20:36	5° \mathbb{B} 08'24	1.44974 AU
superior conj	2763 Jan 20 09:27	29° \mathbb{B} 26'02	-1°56'59	superior conj	2763 Dec 30 20:08	8° \mathbb{B} 15'45	-1°28'39
minimum elong	2763 Jan 20 03:42	29° \mathbb{B} 02'42	1°56'39	minimum elong	2763 Dec 30 11:07	7° \mathbb{B} 40'09	1°27'45
	2763 Jan 20 17:47	0° \mathbb{C}			2764 Jan 13 09:58	0° \mathbb{C}	
evening rise	2763 Feb 02 14:37	21° \mathbb{C} 33'24		evening rise	2764 Jan 14 20:35	2° \mathbb{C} 20'58	
	2763 Feb 07 12:56	0° \mathbb{D}			2764 Feb 01 16:25	0° \mathbb{D}	
asc. node	2763 Feb 17 12:23	15° \mathbb{D} 42'53		evening max el	2764 Feb 04 04:18	2° \mathbb{D} 50'54	18°36'26
evening max el	2763 Feb 20 16:25	19° \mathbb{D} 25'59	18°12'50	asc. node	2764 Feb 04 09:24	3° \mathbb{D} 03'43	
retrograde	2763 Feb 27 03:03	22° \mathbb{D} 51'22		retrograde	2764 Feb 10 18:37	6° \mathbb{D} 29'48	
evening set	2763 Mar 02 00:37	22° \mathbb{D} 07'41		evening set	2764 Feb 13 21:59	5° \mathbb{D} 34'13	
inferior conj	2763 Mar 08 03:21	16° \mathbb{D} 50'27	3°40'21	inferior conj	2764 Feb 19 16:25	29° \mathbb{C} 58'40	3°36'21
minimum elong	2763 Mar 08 03:42	16° \mathbb{D} 49'31	3°40'22	minimum elong	2764 Feb 19 15:13	0° \mathbb{D} 02'18	3°36'15
min. Earth dist.	2763 Mar 10 18:31	13° \mathbb{D} 59'26	0.63127 AU		2764 Feb 19 15:59	30° \mathbb{C}	
morning rise	2763 Mar 14 05:46	10° \mathbb{D} 46'35		min. Earth dist.	2764 Feb 21 15:58	27° \mathbb{C} 36'28	0.64872 AU
direct	2763 Mar 21 04:08	8° \mathbb{D} 05'30		morning rise	2764 Feb 25 07:58	23° \mathbb{C} 48'59	
desc. node	2763 Mar 27 07:36	9° \mathbb{D} 52'59		direct	2764 Mar 03 01:55	20° \mathbb{C} 57'54	
morning max el	2763 Apr 04 01:52	16° \mathbb{D} 02'23	27°46'05	desc. node	2764 Mar 13 04:40	25° \mathbb{C} 44'34	
	2763 Apr 15 13:28	0° \mathbb{E}		morning max el	2764 Mar 16 11:23	28° \mathbb{C} 46'58	27°11'53
	2763 May 03 19:32	0° \mathbb{F}			2764 Mar 17 15:43	0° \mathbb{D}	
morning set	2763 May 08 09:43	8° \mathbb{F} 56'15			2764 Apr 08 09:08	0° \mathbb{E}	
max. Earth dist.	2763 May 13 17:28	19° \mathbb{F} 57'13	1.32806 AU	morning set	2764 Apr 20 23:55	22° \mathbb{E} 35'59	
					2764 Apr 24 17:26	0° \mathbb{F}	
superior conj	2763 May 16 02:07	25° \mathbb{F} 00'37	-0°04'12	max. Earth dist.	2764 Apr 25 14:45	1° \mathbb{F} 48'25	1.33799 AU
minimum elong	2763 May 16 02:19	25° \mathbb{F} 01'42	0°04'10				
behind sun begin	2763 May 15 21:13	24° \mathbb{F} 34'12		superior conj	2764 Apr 29 05:42	9° \mathbb{F} 19'58	-0°32'16
behind sun end	2763 May 16 07:25	25° \mathbb{F} 29'12		minimum elong	2764 Apr 29 07:21	9° \mathbb{F} 28'38	0°31'56
asc. node	2763 May 16 11:40	25° \mathbb{F} 52'12		asc. node	2764 May 02 08:43	15° \mathbb{F} 57'40	
	2763 May 18 09:25	0° \mathbb{G}		evening rise	2764 May 06 13:18	24° \mathbb{F} 50'35	
evening rise	2763 May 23 02:27	10° \mathbb{G} 08'22			2764 May 09 01:12	0° \mathbb{G}	
	2763 Jun 02 08:18	0° \mathbb{H}		evening max el	2764 May 27 04:58	28° \mathbb{G} 17'02	21°53'12
evening max el	2763 Jun 15 11:55	17° \mathbb{H} 45'21	23°28'20		2764 May 29 02:33	0° \mathbb{H}	
desc. node	2763 Jun 23 06:50	23° \mathbb{H} 16'56		retrograde	2764 Jun 08 19:08	4° \mathbb{H} 29'31	
retrograde	2763 Jun 29 02:21	24° \mathbb{H} 33'40		desc. node	2764 Jun 09 03:51	4° \mathbb{H} 29'13	
evening set	2763 Jul 03 00:48	23° \mathbb{H} 59'45		evening set	2764 Jun 11 10:48	4° \mathbb{H} 13'47	
min. Earth dist.	2763 Jul 09 21:59	20° \mathbb{H} 49'10	0.55858 AU	inferior conj	2764 Jun 20 20:00	0° \mathbb{H} 10'08	-3°14'07
inferior conj	2763 Jul 11 22:40	19° \mathbb{H} 36'52	-4°32'51	minimum elong	2764 Jun 20 12:02	0° \mathbb{H} 21'16	3°11'44
minimum elong	2763 Jul 11 16:17	19° \mathbb{H} 46'23	4°31'47	min. Earth dist.	2764 Jun 20 09:07	0° \mathbb{H} 25'20	0.54978 AU
morning rise	2763 Jul 20 10:17	15° \mathbb{H} 42'02			2764 Jun 21 03:14	30° \mathbb{F} \mathbb{I}	
direct	2763 Jul 23 05:32	15° \mathbb{H} 22'40		morning rise	2764 Jun 29 14:41	26° \mathbb{I} 17'19	
morning max el	2763 Aug 02 15:47	20° \mathbb{H} 12'48	20°14'57	direct	2764 Jul 02 18:07	25° \mathbb{I} 55'31	
	2763 Aug 10 11:21	0° \mathbb{J}			2764 Jul 12 23:21	0° \mathbb{H}	
asc. node	2763 Aug 12 10:54	3° \mathbb{J} 13'01		morning max el	2764 Jul 14 19:04	1° \mathbb{H} 34'06	21°41'55
morning set	2763 Aug 21 02:35	19° \mathbb{J} 39'12		asc. node	2764 Jul 29 07:58	22° \mathbb{H} 13'18	
	2763 Aug 26 03:32	0° \mathbb{K}			2764 Aug 02 07:44	0° \mathbb{J}	
				morning set	2764 Aug 04 11:42	4° \mathbb{J} 26'46	
superior conj	2763 Aug 28 18:33	5° \mathbb{K} 20'36	1°45'13				
minimum elong	2763 Aug 28 18:36	5° \mathbb{K} 20'50	1°45'12	superior conj	2764 Aug 11 18:16	19° \mathbb{J} 45'25	1°41'47
max. Earth dist.	2763 Sep 03 01:14	15° \mathbb{K} 44'24	1.36560 AU	minimum elong	2764 Aug 11 17:00	19° \mathbb{J} 38'43	1°41'43
evening rise	2763 Sep 06 22:52	23° \mathbb{K} 02'54		max. Earth dist.	2764 Aug 15 14:10	27° \mathbb{J} 38'22	1.34885 AU
	2763 Sep 10 20:15	0° \mathbb{L}			2764 Aug 16 18:22	0° \mathbb{K}	
desc. node	2763 Sep 19 06:10	13° \mathbb{L} 55'49		evening rise	2764 Aug 20 00:10	6° \mathbb{K} 20'37	
	2763 Sep 30 06:03	0° \mathbb{M}			2764 Sep 02 12:50	0° \mathbb{L}	
evening max el	2763 Oct 12 16:48	14° \mathbb{M} 43'28	25°54'49	desc. node	2764 Sep 05 03:11	4° \mathbb{L} 02'14	

































































































































evening max el	2764 Sep 24 05:15	28°♄20'09	26°49'27		2765 Aug 27 12:54	0°♄	
	2764 Sep 26 00:43	0°♄		evening max el	2765 Sep 06 17:02	11°♄42'04	27°21'01
retrograde	2764 Oct 07 07:12	5°♄35'31		retrograde	2765 Sep 20 05:13	19°♄00'27	
evening set	2764 Oct 13 23:43	2°♄53'48		evening set	2765 Sep 27 07:04	16°♄18'33	
	2764 Oct 16 23:37	30°♄		min. Earth dist.	2765 Oct 01 00:48	12°♄52'33	0.64357 AU
min. Earth dist.	2764 Oct 17 23:35	28°♄52'38	0.65756 AU	inferior conj	2765 Oct 03 09:39	10°♄21'09	-2°49'40
inferior conj	2764 Oct 19 19:53	26°♄43'11	-1°50'22	minimum elong	2765 Oct 03 14:13	10°♄08'58	2°48'04
minimum elong	2764 Oct 19 22:54	26°♄34'24	1°49'10	morning rise	2765 Oct 09 22:29	4°♄55'35	
asc. node	2764 Oct 25 07:11	21°♄24'57		asc. node	2765 Oct 12 04:15	4°♄22'15	
morning rise	2764 Oct 25 22:46	21°♄02'34		direct	2765 Oct 12 12:20	4°♄21'39	
direct	2764 Oct 28 18:57	20°♄17'59		morning max el	2765 Oct 19 00:30	7°♄47'57	17°56'58
morning max el	2764 Nov 04 08:28	23°♄51'55	18°20'18		2765 Nov 02 21:27	0°♄	
	2764 Nov 09 08:38	0°♄		morning set	2765 Nov 05 05:56	3°♄59'35	
morning set	2764 Nov 23 15:22	22°♄24'22					
	2764 Nov 28 08:20	0°♄		superior conj	2765 Nov 18 11:58	25°♄59'13	0°03'18
desc. node	2764 Dec 02 02:31	6°♄00'34		minimum elong	2765 Nov 18 12:21	26°♄00'46	0°03'15
				behind sun begin	2765 Nov 18 02:15	25°♄19'58	
superior conj	2764 Dec 08 21:50	16°♄46'46	-0°44'51	behind sun end	2765 Nov 18 22:27	26°♄41'29	
minimum elong	2764 Dec 08 16:06	16°♄24'14	0°44'07	desc. node	2765 Nov 18 23:32	26°♄45'51	
max. Earth dist.	2764 Dec 10 15:56	19°♄32'15	1.45176 AU		2765 Nov 20 23:54	0°♄	
	2764 Dec 17 08:10	0°♄		max. Earth dist.	2765 Nov 23 10:36	3°♄53'33	1.44639 AU
evening rise	2764 Dec 25 03:25	12°♄13'13		evening rise	2765 Dec 04 16:36	21°♄26'29	
greatest brilliancy	2765 Jan 05 00:47	29°♄13'03	-0.8m		2765 Dec 10 06:45	0°♄	
	2765 Jan 05 13:02	0°♄		greatest brilliancy	2765 Dec 19 01:35	13°♄11'06	-0.6m
evening max el	2765 Jan 17 13:04	16°♄19'44	19°17'19	evening max el	2765 Dec 31 17:01	29°♄50'17	20°13'39
asc. node	2765 Jan 21 06:27	19°♄22'37			2765 Dec 31 20:49	0°♄	
retrograde	2765 Jan 24 14:48	20°♄22'47		asc. node	2766 Jan 08 03:31	4°♄25'06	
evening set	2765 Jan 28 00:54	19°♄14'25		retrograde	2766 Jan 08 12:49	4°♄25'56	
inferior conj	2765 Feb 02 13:52	13°♄22'44	3°18'13	evening set	2766 Jan 12 07:07	3°♄03'35	
minimum elong	2765 Feb 02 11:41	13°♄29'44	3°17'49		2766 Jan 15 09:07	30°♄	
min. Earth dist.	2765 Feb 03 22:14	11°♄38'30	0.66223 AU	inferior conj	2766 Jan 17 16:54	26°♄58'35	2°49'16
morning rise	2765 Feb 07 22:14	7°♄10'04		minimum elong	2766 Jan 17 14:20	27°♄07'14	2°48'35
direct	2765 Feb 14 06:00	4°♄22'25		min. Earth dist.	2766 Jan 18 11:35	25°♄55'25	0.67164 AU
morning max el	2765 Feb 26 21:10	11°♄51'46	26°09'56	morning rise	2766 Jan 22 21:22	20°♄44'59	
desc. node	2765 Feb 28 01:44	13°♄05'38		direct	2766 Jan 28 15:40	18°♄10'54	
	2765 Mar 13 10:00	0°♄		morning max el	2766 Feb 09 05:55	25°♄06'21	24°49'39
	2765 Apr 01 00:19	0°♄			2766 Feb 13 16:34	0°♄	
morning set	2765 Apr 04 01:11	5°♄33'15		desc. node	2766 Feb 14 22:46	1°♄30'40	
max. Earth dist.	2765 Apr 08 00:39	13°♄07'31	1.35249 AU		2766 Mar 06 21:53	0°♄	
				morning set	2766 Mar 17 08:29	17°♄34'14	
superior conj	2765 Apr 13 02:10	23°♄13'01	-1°00'36	max. Earth dist.	2766 Mar 20 23:56	24°♄09'02	1.37114 AU
minimum elong	2765 Apr 13 05:18	23°♄28'56	1°00'02		2766 Mar 24 03:05	0°♄	
	2765 Apr 16 09:19	0°♄					
asc. node	2765 Apr 19 05:46	5°♄55'01		superior conj	2766 Mar 27 12:32	6°♄32'04	-1°27'17
evening rise	2765 Apr 20 21:05	9°♄18'01		minimum elong	2766 Mar 27 16:46	6°♄52'47	1°26'41
	2765 May 02 00:44	0°♄		evening rise	2766 Apr 04 23:34	23°♄24'15	
evening max el	2765 May 09 07:57	9°♄16'16	20°29'40	asc. node	2766 Apr 06 02:48	25°♄40'01	
retrograde	2765 May 20 08:23	14°♄38'00			2766 Apr 08 07:47	0°♄	
evening set	2765 May 22 09:23	14°♄27'43		evening max el	2766 Apr 21 22:56	20°♄55'54	19°24'10
desc. node	2765 May 27 00:54	12°♄56'51		retrograde	2766 May 01 06:12	25°♄26'18	
inferior conj	2765 May 31 14:09	10°♄29'49	-1°20'02	evening set	2766 May 03 07:04	25°♄14'18	
minimum elong	2765 May 31 10:22	10°♄35'18	1°18'38	inferior conj	2766 May 11 19:33	21°♄07'33	0°36'21
min. Earth dist.	2765 Jun 01 21:29	9°♄44'24	0.55025 AU	minimum elong	2766 May 11 21:04	21°♄05'05	0°35'48
morning rise	2765 Jun 09 10:25	6°♄18'48		desc. node	2766 May 13 21:57	19°♄45'19	
direct	2765 Jun 13 04:09	5°♄48'39		min. Earth dist.	2766 May 14 12:07	19°♄22'43	0.56013 AU
morning max el	2765 Jun 26 13:15	12°♄17'37	23°22'09	morning rise	2766 May 20 08:09	16°♄23'28	
	2765 Jul 09 21:33	0°♄		direct	2766 May 25 00:24	15°♄33'39	
asc. node	2765 Jul 16 05:02	11°♄39'42		morning max el	2766 Jun 08 03:35	22°♄43'30	25°03'23
morning set	2765 Jul 19 23:00	19°♄21'00			2766 Jun 14 14:54	0°♄	
	2765 Jul 24 22:20	0°♄			2766 Jul 02 09:37	0°♄	
				asc. node	2766 Jul 03 02:04	1°♄24'56	
superior conj	2765 Jul 27 00:13	4°♄28'36	1°32'16	morning set	2766 Jul 04 10:47	4°♄16'16	
minimum elong	2765 Jul 26 22:07	4°♄17'23	1°32'05				
max. Earth dist.	2765 Jul 29 12:06	9°♄47'36	1.33589 AU	superior conj	2766 Jul 11 09:56	19°♄22'08	1°17'44
evening rise	2765 Aug 03 14:23	20°♄15'58		minimum elong	2766 Jul 11 07:34	19°♄09'08	1°17'23
	2765 Aug 08 15:50	0°♄		max. Earth dist.	2766 Jul 12 17:52	22°♄16'02	1.32704 AU
desc. node	2765 Aug 23 00:12	23°♄42'34			2766 Jul 16 08:24	0°♄	

evening rise	2766 Jul 18 13:50	4°♎38'10		max. Earth dist.	2767 Jun 26 04:38	4°♏58'44	1.32223 AU
	2766 Aug 01 07:56	0°♐		evening rise	2767 Jul 02 19:39	19°♏18'21	
desc. node	2766 Aug 09 21:14	12°♐45'22			2767 Jul 08 02:59	0°♎	
evening max el	2766 Aug 20 02:21	24°♐36'41	27°23'22		2767 Jul 27 00:07	0°♐	
	2766 Aug 27 05:25	0°♑		desc. node	2767 Jul 27 18:15	0°♐55'10	
retrograde	2766 Sep 02 20:57	1°♑53'09		evening max el	2767 Aug 02 06:48	6°♐52'25	26°52'44
	2766 Sep 09 02:47	30°♐		retrograde	2767 Aug 16 05:06	14°♐04'54	
evening set	2766 Sep 10 01:46	29°♐22'53		evening set	2767 Aug 23 03:28	11°♐59'30	
min. Earth dist.	2766 Sep 13 16:05	26°♐26'20	0.62627 AU	min. Earth dist.	2767 Aug 26 20:58	9°♐20'51	0.60651 AU
inferior conj	2766 Sep 16 12:53	23°♐42'26	-3°45'35	inferior conj	2767 Aug 30 02:18	6°♐39'04	-4°32'15
minimum elong	2766 Sep 16 18:25	23°♐29'13	3°44'02	minimum elong	2767 Aug 30 07:20	6°♐28'29	4°31'20
morning rise	2766 Sep 23 12:36	18°♐35'03		morning rise	2767 Sep 06 13:04	1°♐52'43	
direct	2766 Sep 25 22:47	18°♐08'21		direct	2767 Sep 08 22:33	1°♐30'24	
asc. node	2766 Sep 29 01:18	18°♐53'21		asc. node	2767 Sep 15 22:20	4°♐49'08	
morning max el	2766 Oct 02 16:34	21°♐35'16	17°51'23	morning max el	2767 Sep 16 05:32	5°♐06'17	18°04'45
	2766 Oct 09 02:28	0°♑			2767 Oct 01 23:24	0°♑	
morning set	2766 Oct 18 19:13	16°♑39'53		morning set	2767 Oct 02 01:08	0°♑08'06	
	2766 Oct 26 08:58	0°♒					
superior conj	2766 Oct 30 03:23	6°♒26'29	0°45'07	superior conj	2767 Oct 11 21:09	18°♑11'10	1°15'46
minimum elong	2766 Oct 30 07:19	6°♒43'07	0°44'35	minimum elong	2767 Oct 12 01:23	18°♑30'02	1°15'17
desc. node	2766 Nov 05 20:31	17°♒33'06			2767 Oct 18 16:41	0°♒	
max. Earth dist.	2766 Nov 06 01:49	17°♒54'33	1.43442 AU	max. Earth dist.	2767 Oct 19 12:21	1°♒22'35	1.41736 AU
	2766 Nov 13 16:47	0°♓		desc. node	2767 Oct 23 17:32	8°♒19'27	
evening rise	2766 Nov 14 01:57	0°♓35'35		evening rise	2767 Oct 25 00:08	10°♒22'53	
	2766 Dec 03 22:16	0°♑			2767 Nov 06 18:38	0°♓	
evening max el	2766 Dec 14 15:25	13°♑21'33	21°22'35	evening max el	2767 Nov 27 08:44	26°♓54'57	22°39'47
retrograde	2766 Dec 23 10:22	18°♑34'50			2767 Nov 30 18:54	0°♑	
asc. node	2766 Dec 26 00:33	17°♑57'53		retrograde	2767 Dec 07 05:47	2°♑46'54	
evening set	2766 Dec 27 14:43	16°♑57'12		evening set	2767 Dec 11 22:02	0°♑52'46	
inferior conj	2767 Jan 01 23:10	10°♑42'06	2°11'41	asc. node	2767 Dec 12 21:35	29°♓59'10	
minimum elong	2767 Jan 01 20:44	10°♑50'31	2°10'53		2767 Dec 12 21:15	30°♒♓	
min. Earth dist.	2767 Jan 02 05:40	10°♑19'36	0.67715 AU	inferior conj	2767 Dec 17 06:44	24°♓31'08	1°27'07
morning rise	2767 Jan 07 02:34	4°♑29'27		minimum elong	2767 Dec 17 04:53	24°♓37'33	1°26'25
direct	2767 Jan 12 06:06	2°♑15'22		min. Earth dist.	2767 Dec 17 02:05	24°♓47'14	0.67903 AU
morning max el	2767 Jan 22 14:43	8°♑25'10	23°21'18	morning rise	2767 Dec 22 11:35	18°♓21'22	
desc. node	2767 Feb 01 19:47	20°♑40'44		direct	2767 Dec 27 00:21	16°♓30'04	
	2767 Feb 08 12:06	0°♒		morning max el	2768 Jan 05 03:03	21°♓50'51	21°54'26
morning set	2767 Feb 26 15:31	28°♒21'50			2768 Jan 12 02:26	0°♑	
	2767 Feb 27 14:45	0°♓		desc. node	2768 Jan 19 16:48	10°♑23'15	
max. Earth dist.	2767 Mar 02 18:33	5°♓25'56	1.39240 AU		2768 Feb 01 19:43	0°♒	
				morning set	2768 Feb 06 17:33	7°♒45'20	
superior conj	2767 Mar 10 08:49	19°♓06'59	-1°49'34	max. Earth dist.	2768 Feb 12 16:51	17°♒31'15	1.41371 AU
minimum elong	2767 Mar 10 13:07	19°♓27'01	1°49'12		2768 Feb 19 23:46	0°♓	
	2767 Mar 16 02:35	0°♑		superior conj	2768 Feb 20 10:06	0°♓45'27	-2°03'37
evening rise	2767 Mar 19 17:53	7°♑01'41		minimum elong	2768 Feb 20 12:25	0°♓55'39	2°03'33
asc. node	2767 Mar 23 23:51	15°♑07'32		evening rise	2768 Mar 02 00:35	20°♓01'39	
	2767 Apr 02 03:25	0°♒			2768 Mar 07 11:24	0°♑	
evening max el	2767 Apr 05 00:11	3°♒13'56	18°38'44	asc. node	2768 Mar 09 20:53	4°♑10'54	
retrograde	2767 Apr 12 21:28	7°♒05'31		evening max el	2768 Mar 18 08:22	16°♑00'58	18°13'21
evening set	2767 Apr 15 04:10	6°♒47'20		retrograde	2768 Mar 25 07:28	19°♑30'35	
inferior conj	2767 Apr 22 20:53	2°♒22'39	2°07'38	evening set	2768 Mar 27 20:25	19°♑03'31	
minimum elong	2767 Apr 23 00:42	2°♒15'22	2°06'31	inferior conj	2768 Apr 03 19:21	14°♑17'47	3°05'43
min. Earth dist.	2767 Apr 26 05:47	29°♑50'03	0.57728 AU	minimum elong	2768 Apr 03 22:34	14°♑10'36	3°05'07
	2767 Apr 26 00:18	30°♒♑		min. Earth dist.	2768 Apr 07 04:30	11°♑19'06	0.59828 AU
morning rise	2767 Apr 30 18:06	27°♑05'09		morning rise	2768 Apr 10 22:23	8°♑35'09	
desc. node	2767 Apr 30 18:58	27°♑04'08		desc. node	2768 Apr 16 16:00	6°♑39'19	
direct	2767 May 06 11:03	25°♑43'47		direct	2768 Apr 17 10:09	6°♑37'45	
	2767 May 17 00:18	0°♒		morning max el	2768 May 01 17:52	14°♑27'11	27°28'28
morning max el	2767 May 20 19:52	3°♒19'16	26°30'06		2768 May 14 05:56	0°♒	
	2767 Jun 09 01:21	0°♑			2768 May 31 08:55	0°♑	
morning set	2767 Jun 18 21:29	19°♑07'33		morning set	2768 Jun 02 05:19	3°♑48'02	
asc. node	2767 Jun 19 23:06	21°♑23'17		asc. node	2768 Jun 05 20:08	11°♑29'01	
	2767 Jun 23 22:22	0°♏		max. Earth dist.	2768 Jun 08 16:42	17°♑43'16	1.32136 AU
superior conj	2767 Jun 25 21:31	4°♏19'32	0°58'58	superior conj	2768 Jun 09 09:08	19°♑13'35	0°36'37
minimum elong	2767 Jun 25 19:20	4°♏07'29	0°58'33	minimum elong	2768 Jun 09 07:35	19°♑05'03	0°36'17

	2768 Jun 14 07:09	0°☿		behind sun begin	2769 May 24 14:55	3°♊36'01	
evening rise	2768 Jun 16 05:21	4°☿07'26		behind sun end	2769 May 24 22:13	4°♊15'52	
	2768 Jun 29 23:52	0°♊		evening rise	2769 May 31 16:57	18°♊58'44	
desc. node	2768 Jul 13 15:16	17°♊49'02			2769 Jun 06 02:27	0°☿	
evening max el	2768 Jul 14 04:05	18°♊20'03	25°50'03	evening max el	2769 Jun 25 18:52	29°☿05'08	24°23'23
retrograde	2768 Jul 28 03:52	25°♊28'27			2769 Jun 26 18:22	0°♊	
evening set	2768 Aug 03 07:19	23°♊58'39		desc. node	2769 Jun 30 12:17	2°♊57'16	
min. Earth dist.	2768 Aug 07 16:24	21°♊21'08	0.58590 AU	retrograde	2769 Jul 09 15:40	6°♊05'18	
inferior conj	2768 Aug 10 22:14	18°♊59'57	-5°00'12	evening set	2769 Jul 14 11:23	5°♊13'18	
minimum elong	2768 Aug 11 00:18	18°♊56'12	5°00'05	min. Earth dist.	2769 Jul 20 05:43	2°♊18'53	0.56717 AU
morning rise	2768 Aug 18 19:30	14°♊36'38		inferior conj	2769 Jul 22 22:09	0°♊36'58	-4°55'44
direct	2768 Aug 21 07:15	14°♊16'31		minimum elong	2769 Jul 22 18:49	0°♊42'17	4°55'28
morning max el	2768 Aug 29 12:09	18°♊11'12	18°38'31		2769 Jul 23 21:35	30°☿☿	
asc. node	2768 Sep 01 19:21	21°♊53'53		morning rise	2769 Jul 31 04:55	26°☿34'33	
	2768 Sep 07 03:40	0°♎		direct	2769 Aug 02 20:56	26°☿15'23	
morning set	2768 Sep 14 18:43	14°♎09'50			2769 Aug 11 15:06	0°♊	
	2768 Sep 22 23:51	0°♊		morning max el	2769 Aug 12 09:27	0°♊41'07	19°33'40
				asc. node	2769 Aug 19 16:23	9°♊53'07	
superior conj	2768 Sep 23 12:30	0°♊59'30	1°34'53	morning set	2769 Aug 29 20:20	28°♊34'53	
minimum elong	2768 Sep 23 15:20	1°♊12'48	1°34'40		2769 Aug 30 13:16	0°♎	
max. Earth dist.	2768 Sep 30 18:16	14°♊08'48	1.39722 AU				
evening rise	2768 Oct 04 20:41	21°♊11'54		superior conj	2769 Sep 06 19:55	14°♎35'44	1°43'54
desc. node	2768 Oct 09 14:34	29°♊01'04		minimum elong	2769 Sep 06 20:55	14°♎40'43	1°43'52
	2768 Oct 10 05:14	0°♎		max. Earth dist.	2769 Sep 12 22:25	26°♎16'34	1.37663 AU
	2768 Oct 30 20:41	0°☿			2769 Sep 14 23:11	0°♊	
evening max el	2768 Nov 08 22:27	10°☿31'52	23°59'44	evening rise	2769 Sep 16 16:38	3°♊05'59	
retrograde	2768 Nov 19 21:54	16°☿59'05		desc. node	2769 Sep 26 11:36	19°♊33'31	
evening set	2768 Nov 25 03:33	14°☿48'12			2769 Oct 03 07:27	0°♎	
asc. node	2768 Nov 28 18:36	10°☿48'30		evening max el	2769 Oct 22 10:34	24°♎11'42	25°15'45
min. Earth dist.	2768 Nov 29 22:28	9°☿15'51	0.67741 AU		2769 Oct 30 01:43	0°☿	
inferior conj	2768 Nov 30 13:49	8°☿23'53	0°36'50	retrograde	2769 Nov 03 09:50	1°☿06'28	
minimum elong	2768 Nov 30 12:57	8°☿26'49	0°36'28		2769 Nov 07 08:56	30°☿♎	
morning rise	2768 Dec 05 22:22	2°☿19'04		evening set	2769 Nov 09 05:34	28°♎40'13	
direct	2768 Dec 09 21:20	0°☿50'18		min. Earth dist.	2769 Nov 13 16:32	23°♎42'23	0.67239 AU
morning max el	2768 Dec 17 22:20	5°☿27'57	20°36'16	inferior conj	2769 Nov 14 18:40	22°♎17'27	-0°18'02
	2769 Jan 05 05:55	0°☿		minimum elong	2769 Nov 14 19:08	22°♎15'58	0°17'50
desc. node	2769 Jan 05 13:49	0°☿29'28		asc. node	2769 Nov 15 15:38	21°♎09'51	
morning set	2769 Jan 15 19:14	16°☿04'24		morning rise	2769 Nov 20 08:55	16°♎19'52	
	2769 Jan 24 14:34	0°♋		direct	2769 Nov 23 19:44	15°♎11'11	
max. Earth dist.	2769 Jan 24 22:58	0°♋33'57	1.43209 AU	morning max el	2769 Dec 01 01:33	19°♎16'07	19°31'08
					2769 Dec 09 14:00	0°☿	
superior conj	2769 Jan 31 11:20	11°♋16'15	-2°04'28	greatest brilliancy	2769 Dec 14 08:08	6°☿58'18	-0.7m
minimum elong	2769 Jan 31 08:56	11°♋06'14	2°04'24	desc. node	2769 Dec 23 10:51	20°☿52'25	
	2769 Feb 11 08:44	0°♋		morning set	2769 Dec 25 16:48	24°☿20'47	
evening rise	2769 Feb 12 15:38	2°♋16'03			2769 Dec 29 08:18	0°☿	
asc. node	2769 Feb 24 17:56	22°♋42'33		max. Earth dist.	2770 Jan 07 11:57	14°☿20'50	1.44519 AU
evening max el	2769 Mar 01 20:12	29°♋08'11	18°07'31				
	2769 Mar 02 18:23	0°♎		superior conj	2770 Jan 11 10:26	20°☿36'58	-1°47'17
retrograde	2769 Mar 08 08:36	2°♎31'29		minimum elong	2770 Jan 11 02:39	20°☿05'46	1°46'41
evening set	2769 Mar 11 03:03	1°♎54'09			2770 Jan 17 05:38	0°♋	
	2769 Mar 14 02:18	30°☿♋		evening rise	2770 Jan 25 10:39	13°♋36'27	
inferior conj	2769 Mar 17 12:01	26°♋47'48	3°34'28		2770 Feb 04 07:21	0°♋	
minimum elong	2769 Mar 17 13:27	26°♋44'10	3°34'21	asc. node	2770 Feb 11 14:58	10°♋32'19	
min. Earth dist.	2769 Mar 20 11:10	23°♋47'45	0.61970 AU	evening max el	2770 Feb 13 08:44	12°♋27'41	18°20'39
morning rise	2769 Mar 23 22:25	20°♋49'22		retrograde	2770 Feb 19 20:04	15°♋57'50	
direct	2769 Mar 30 19:26	18°♋21'06		evening set	2770 Feb 22 19:56	15°♋09'18	
desc. node	2769 Apr 03 13:01	19°♋00'39		inferior conj	2770 Feb 28 18:45	9°♋43'57	3°40'40
morning max el	2769 Apr 13 22:14	26°♋17'29	27°50'31	minimum elong	2770 Feb 28 18:22	9°♋45'02	3°40'39
	2769 Apr 17 09:25	0°♎		min. Earth dist.	2770 Mar 03 03:19	7°♋03'28	0.63909 AU
	2769 May 07 19:01	0°♋		morning rise	2770 Mar 06 16:01	3°♋36'49	
morning set	2769 May 17 08:22	18°♋11'34		direct	2770 Mar 13 13:12	0°♋49'45	
	2769 May 22 23:04	0°♊		desc. node	2770 Mar 21 10:04	3°♋45'07	
max. Earth dist.	2769 May 23 02:11	0°♊16'46	1.32443 AU	morning max el	2770 Mar 27 06:47	8°♋45'23	27°35'29
asc. node	2769 May 23 17:11	1°♊37'59			2770 Apr 12 18:44	0°♎	
					2770 Apr 30 01:43	0°♋	
superior conj	2769 May 24 19:06	3°♊58'49	0°11'22	morning set	2770 May 01 04:08	2°♋09'51	
minimum elong	2769 May 24 18:34	3°♊55'56	0°11'15	max. Earth dist.	2770 May 06 04:49	12°♋25'08	1.33168 AU

superior conj	2770 May 09 01:35	18°  29'07	-0°16'00	max. Earth dist.	2771 Apr 18 21:05	24°  00'15	1.34353 AU
minimum elong	2770 May 09 02:23	18°  33'23	0°15'49		2771 Apr 21 19:54	0° 	
behind sun begin	2770 May 09 01:42	18°  29'47					
behind sun end	2770 May 09 03:03	18°  36'59		superior conj	2771 Apr 23 02:28	2°  38'03	-0°44'23
asc. node	2770 May 10 14:15	21°  45'46		minimum elong	2771 Apr 23 04:45	2°  49'56	0°43'55
	2770 May 14 10:10	0°  II		asc. node	2771 Apr 27 11:19	11°  48'09	
evening rise	2770 May 16 04:35	3°  II45'32		evening rise	2771 Apr 30 14:21	18°  21'47	
	2770 May 30 12:56	0°  ☿			2771 May 06 10:00	0°  II	
evening max el	2770 Jun 07 08:47	9°  ☿32'15	22°47'07	evening max el	2771 May 20 05:35	20°  II13'17	21°15'50
desc. node	2770 Jun 17 09:18	15°  ☿44'27		retrograde	2771 Jun 01 05:08	26°  II05'05	
retrograde	2770 Jun 20 15:18	16°  ☿08'38		evening set	2771 Jun 03 12:07	25°  II52'59	
evening set	2770 Jun 23 22:58	15°  ☿44'26		desc. node	2771 Jun 04 06:20	25°  II43'52	
min. Earth dist.	2770 Jul 01 17:10	12°  ☿19'15	0.55373 AU	inferior conj	2771 Jun 12 21:25	21°  II54'11	-2°28'20
inferior conj	2770 Jul 03 03:15	11°  ☿30'20	-4°05'18	minimum elong	2771 Jun 12 14:42	22°  II03'37	2°26'04
minimum elong	2770 Jul 02 19:27	11°  ☿41'34	4°03'31	min. Earth dist.	2771 Jun 13 05:02	21°  II43'29	0.54870 AU
morning rise	2770 Jul 11 18:15	7°  ☿38'41		morning rise	2771 Jun 21 17:38	17°  II55'41	
direct	2770 Jul 14 16:10	7°  ☿18'56		direct	2771 Jun 25 02:08	17°  II31'17	
morning max el	2770 Jul 25 19:28	12°  ☿28'57	20°49'51	morning max el	2771 Jul 07 18:23	23°  II32'40	22°23'33
asc. node	2770 Aug 06 13:27	28°  ☿34'30			2771 Jul 13 12:33	0°  ☿	
	2770 Aug 07 08:33	0°  ♊		asc. node	2771 Jul 24 10:32	17°  ☿46'58	
morning set	2770 Aug 14 03:21	13°  ♊16'26		morning set	2771 Jul 29 13:37	28°  ☿07'29	
					2771 Jul 30 11:02	0°  ♊	
superior conj	2770 Aug 21 14:47	28°  ♊46'41	1°44'34	superior conj	2771 Aug 05 17:29	13°  ♊20'32	1°38'26
minimum elong	2770 Aug 21 14:13	28°  ♊43'44	1°44'34	minimum elong	2771 Aug 05 15:48	13°  ♊11'36	1°38'19
	2770 Aug 22 05:08	0°  ♊		max. Earth dist.	2771 Aug 08 23:03	20°  ♊06'12	1.34282 AU
max. Earth dist.	2770 Aug 26 06:28	8°  ♊07'33	1.35800 AU	evening rise	2771 Aug 13 15:56	29°  ♊33'09	
evening rise	2770 Aug 30 08:37	15°  ♊57'30			2771 Aug 13 21:27	0°  ♊	
	2770 Sep 07 06:25	0°  ♊		desc. node	2771 Aug 31 05:39	29°  ♊48'27	
desc. node	2770 Sep 13 08:38	9°  ♊51'47			2771 Aug 31 08:45	0°  ♊	
	2770 Sep 27 19:21	0°  ♊		evening max el	2771 Sep 17 11:12	21°  ♊24'34	27°06'09
evening max el	2770 Oct 04 22:45	7°  ♊52'00	26°20'24	retrograde	2771 Sep 30 18:22	28°  ♊42'07	
retrograde	2770 Oct 17 16:56	15°  ♊03'28		evening set	2771 Oct 07 15:14	25°  ♊59'24	
evening set	2770 Oct 24 02:15	12°  ♊25'42		min. Earth dist.	2771 Oct 11 12:24	22°  ♊13'13	0.65204 AU
min. Earth dist.	2770 Oct 28 05:59	8°  ♊03'31	0.66395 AU	inferior conj	2771 Oct 13 13:55	19°  ♊53'41	-2°15'41
inferior conj	2770 Oct 29 19:26	6°  ♊09'04	-1°16'06	minimum elong	2771 Oct 13 17:37	19°  ♊43'14	2°14'15
minimum elong	2770 Oct 29 21:28	6°  ♊02'49	1°15'15	morning rise	2771 Oct 19 20:52	14°  ♊18'46	
asc. node	2770 Nov 02 12:39	2°  ♊00'34		asc. node	2771 Oct 20 09:43	14°  ♊04'45	
morning rise	2770 Nov 04 17:13	0°  ♊21'17		direct	2771 Oct 22 13:59	13°  ♊39'09	
	2770 Nov 05 10:02	30°  ♊ 		morning max el	2771 Oct 29 02:10	17°  ♊09'04	18°08'08
direct	2770 Nov 07 18:00	29°  ♊29'06			2771 Nov 07 11:51	0°  ♊	
	2770 Nov 10 03:16	0°  ♊		morning set	2771 Nov 16 08:58	14°  ♊31'20	
morning max el	2770 Nov 14 11:36	3°  ♊11'52	18°41'23		2771 Nov 25 20:38	0°  ♊	
	2770 Dec 03 02:09	0°  ♊		desc. node	2771 Nov 27 04:57	2°  ♊09'44	
morning set	2770 Dec 05 10:15	3°  ♊42'12					
desc. node	2770 Dec 10 07:55	11°  ♊27'24		superior conj	2771 Nov 30 19:28	7°  ♊54'37	-0°24'14
max. Earth dist.	2770 Dec 21 05:18	28°  ♊34'44	1.45151 AU	minimum elong	2771 Nov 30 16:24	7°  ♊42'25	0°23'49
				max. Earth dist.	2771 Dec 04 00:28	12°  ♊58'49	1.45041 AU
superior conj	2770 Dec 21 14:54	29°  ♊12'25	-1°11'25		2771 Dec 14 22:03	0°  ♊	
minimum elong	2770 Dec 21 06:31	28°  ♊39'29	1°10'27	evening rise	2771 Dec 17 04:41	3°  ♊31'54	
	2770 Dec 22 03:02	0°  ♊		greatest brilliancy	2771 Dec 30 01:33	23°  ♊18'01	-0.7m
evening rise	2771 Jan 06 06:38	23°  ♊59'37			2772 Jan 03 15:16	0°  ♊	
	2771 Jan 10 00:33	0°  ♊		evening max el	2772 Jan 11 02:28	9°  ♊25'04	19°39'37
greatest brilliancy	2771 Jan 13 23:41	6°  ♊20'20	-0.9m	asc. node	2772 Jan 16 09:01	13°  ♊17'01	
evening max el	2771 Jan 27 19:31	25°  ♊54'39	18°51'48	retrograde	2772 Jan 18 11:05	13°  ♊40'44	
asc. node	2771 Jan 29 12:00	27°  ♊28'34		evening set	2772 Jan 22 00:30	12°  ♊26'36	
retrograde	2771 Feb 03 13:57	29°  ♊42'48		inferior conj	2772 Jan 27 11:53	6°  ♊29'11	3°07'04
evening set	2771 Feb 06 19:56	28°  ♊42'05		minimum elong	2772 Jan 27 09:29	6°  ♊37'07	3°06'33
inferior conj	2771 Feb 12 11:46	22°  ♊59'35	3°30'08	min. Earth dist.	2772 Jan 28 14:18	5°  ♊02'10	0.66679 AU
minimum elong	2771 Feb 12 10:04	23°  ♊04'49	3°29'55	morning rise	2772 Feb 01 18:14	0°  ♊16'04	
min. Earth dist.	2771 Feb 14 04:49	20°  ♊52'26	0.65500 AU		2772 Feb 02 01:31	30°  ♊ 	
morning rise	2771 Feb 17 23:48	16°  ♊48'11		direct	2772 Feb 07 20:42	27°  ♊32'57	
direct	2771 Feb 24 14:02	13°  ♊56'42			2772 Feb 14 11:01	0°  ♊	
desc. node	2771 Mar 08 07:07	20°  ♊18'07		morning max el	2772 Feb 20 01:43	4°  ♊49'09	25°37'19
morning max el	2771 Mar 09 16:35	21°  ♊39'46	26°48'16	desc. node	2772 Feb 23 04:10	8°  ♊09'10	
	2771 Mar 16 23:20	0°  ♊			2772 Mar 10 10:03	0°  ♊	
	2771 Apr 05 23:21	0°  ♊		morning set	2772 Mar 27 07:41	28°  ♊08'29	
morning set	2771 Apr 14 13:21	15°  ♊32'58					

	2772 Mar 28 08:00	0°♿			2773 Mar 03 12:00	0°♿	
max. Earth dist.	2772 Mar 31 01:54	5°♿08'27	1.35998 AU	morning set	2773 Mar 09 05:21	9°♿39'44	
				max. Earth dist.	2773 Mar 12 22:37	16°♿13'44	1.38006 AU
superior conj	2772 Apr 05 19:06	16°♿18'28	-1°12'15	superior conj	2773 Mar 19 23:59	29°♿20'00	-1°37'28
minimum elong	2772 Apr 05 22:47	16°♿36'52	1°11'39	minimum elong	2773 Mar 20 04:26	29°♿41'19	1°36'57
	2772 Apr 12 12:33	0°♿			2773 Mar 20 08:19	0°♿	
asc. node	2772 Apr 13 08:22	1°♿41'10			2773 Mar 28 19:34	16°♿36'32	
evening rise	2772 Apr 13 20:12	2°♿41'29		evening rise	2773 Mar 31 05:23	21°♿19'25	
	2772 Apr 30 03:08	0°♿		asc. node	2773 Apr 04 21:01	0°♿	
evening max el	2772 May 01 13:50	1°♿30'00	19°59'26		2773 Apr 14 09:28	13°♿26'14	19°02'17
retrograde	2772 May 11 20:04	6°♿28'26		evening max el	2773 Apr 23 00:54	17°♿38'23	
evening set	2772 May 13 19:59	6°♿17'58		retrograde	2773 Apr 25 04:01	17°♿24'07	
desc. node	2772 May 21 03:22	3°♿16'45		evening set	2773 May 03 08:02	13°♿09'57	1°19'02
inferior conj	2772 May 22 18:47	2°♿18'05	-0°28'55	inferior conj	2773 May 03 10:58	13°♿04'51	1°18'03
minimum elong	2772 May 22 17:27	2°♿20'06	0°28'25	minimum elong	2773 May 06 09:31	11°♿03'03	0.56676 AU
min. Earth dist.	2772 May 24 18:07	1°♿06'45	0.55340 AU	min. Earth dist.	2773 May 08 00:24	10°♿00'59	
	2772 May 26 16:46	30°♿♿		desc. node	2773 May 11 14:49	8°♿11'14	
morning rise	2772 May 31 12:59	27°♿54'22		morning rise	2773 May 16 17:43	7°♿09'27	
direct	2772 Jun 04 15:53	27°♿17'12		direct	2773 May 31 00:28	14°♿31'08	25°43'04
	2772 Jun 13 05:27	0°♿		morning max el	2773 Jun 12 07:58	0°♿	
morning max el	2772 Jun 18 09:58	4°♿04'54	24°05'58		2773 Jun 27 04:38	27°♿13'38	
	2772 Jul 06 13:08	0°♿		asc. node	2773 Jun 27 12:50	27°♿56'46	
asc. node	2772 Jul 10 07:36	7°♿22'23		morning set	2773 Jun 28 12:02	0°♿	
morning set	2772 Jul 13 01:19	13°♿02'48					
superior conj	2772 Jul 20 01:17	28°♿08'47	1°26'41	superior conj	2773 Jul 04 11:59	13°♿04'07	1°10'15
minimum elong	2772 Jul 19 23:00	27°♿56'28	1°26'24	minimum elong	2773 Jul 04 09:38	12°♿51'12	1°09'51
	2772 Jul 20 21:52	0°♿		max. Earth dist.	2773 Jul 05 09:14	15°♿00'34	1.32452 AU
max. Earth dist.	2772 Jul 22 00:48	2°♿24'45	1.33166 AU	evening rise	2773 Jul 11 12:57	28°♿11'32	
evening rise	2772 Jul 27 10:30	13°♿41'16			2773 Jul 12 09:59	0°♿	
	2772 Aug 05 00:51	0°♿			2773 Jul 29 07:10	0°♿	
desc. node	2772 Aug 17 02:40	19°♿14'16		desc. node	2773 Aug 03 23:41	7°♿56'29	
	2772 Aug 25 12:22	0°♿		evening max el	2773 Aug 12 05:57	17°♿16'04	27°14'24
evening max el	2772 Aug 29 22:27	4°♿37'12	27°25'55	retrograde	2773 Aug 26 01:57	24°♿30'33	
retrograde	2772 Sep 12 13:32	11°♿54'11		evening set	2773 Sep 02 05:38	22°♿09'03	
evening set	2772 Sep 19 17:37	9°♿15'59		min. Earth dist.	2773 Sep 05 20:09	19°♿22'14	0.61811 AU
min. Earth dist.	2772 Sep 23 09:35	6°♿03'19	0.63665 AU	inferior conj	2773 Sep 08 21:19	16°♿37'10	-4°06'59
inferior conj	2772 Sep 25 23:34	3°♿25'34	-3°14'05	minimum elong	2773 Sep 09 02:53	16°♿24'34	4°05'38
minimum elong	2772 Sep 26 04:39	3°♿12'34	3°12'25	morning rise	2773 Sep 16 01:46	11°♿38'36	
	2772 Sep 29 15:15	30°♿♿		direct	2773 Sep 18 11:25	11°♿13'58	
morning rise	2772 Oct 02 16:55	28°♿07'02		asc. node	2773 Sep 23 03:49	12°♿50'54	
direct	2772 Oct 05 04:58	27°♿36'26		morning max el	2773 Sep 25 09:39	14°♿43'13	17°54'46
asc. node	2772 Oct 06 06:47	27°♿42'11			2773 Oct 05 21:58	0°♿	
	2772 Oct 10 15:42	0°♿		morning set	2773 Oct 11 07:05	9°♿39'48	
morning max el	2772 Oct 11 18:30	1°♿01'49	17°52'17				
morning set	2772 Oct 28 10:00	26°♿36'52		superior conj	2773 Oct 21 22:34	28°♿38'17	0°59'35
	2772 Oct 30 09:01	0°♿		minimum elong	2773 Oct 22 02:57	28°♿57'11	0°59'01
					2773 Oct 22 17:33	0°♿	
superior conj	2772 Nov 09 19:28	17°♿36'18	0°22'15	max. Earth dist.	2773 Oct 29 08:14	11°♿05'43	1.42766 AU
minimum elong	2772 Nov 09 21:49	17°♿45'55	0°21'55	desc. node	2773 Oct 30 22:58	13°♿43'38	
desc. node	2772 Nov 13 01:57	22°♿56'06		evening rise	2773 Nov 05 03:16	21°♿59'44	
max. Earth dist.	2772 Nov 15 18:28	27°♿15'20	1.44212 AU		2773 Nov 10 07:18	0°♿	
	2772 Nov 17 11:52	0°♿			2773 Dec 01 09:19	0°♿	
evening rise	2772 Nov 25 14:09	12°♿38'26		evening max el	2773 Dec 07 00:11	6°♿28'06	21°54'37
	2772 Dec 07 01:33	0°♿		retrograde	2773 Dec 16 05:57	11°♿58'08	
evening max el	2772 Dec 24 04:08	22°♿56'03	20°41'42	asc. node	2773 Dec 20 03:04	10°♿36'28	
retrograde	2773 Jan 01 09:03	27°♿46'49		evening set	2773 Dec 20 15:13	10°♿13'22	
asc. node	2773 Jan 02 06:02	27°♿42'34		inferior conj	2773 Dec 25 23:34	3°♿54'48	1°53'33
evening set	2773 Jan 05 07:30	26°♿17'55		minimum elong	2773 Dec 25 21:20	4°♿02'34	1°52'46
inferior conj	2773 Jan 10 16:31	20°♿08'14	2°34'14	min. Earth dist.	2773 Dec 26 01:09	3°♿49'21	0.67838 AU
minimum elong	2773 Jan 10 13:57	20°♿17'01	2°33'29		2773 Dec 28 22:35	30°♿♿	
min. Earth dist.	2773 Jan 11 05:48	19°♿22'49	0.67449 AU	morning rise	2773 Dec 31 03:19	27°♿43'12	
morning rise	2773 Jan 15 20:14	13°♿55'07		direct	2774 Jan 05 00:23	25°♿38'58	
direct	2773 Jan 21 08:21	11°♿29'09			2774 Jan 13 07:42	0°♿	
morning max el	2773 Feb 01 10:08	18°♿05'25	24°12'28	morning max el	2774 Jan 14 20:11	1°♿27'47	22°43'43
desc. node	2773 Feb 09 01:11	26°♿54'59		desc. node	2774 Jan 26 22:11	16°♿20'17	
	2773 Feb 11 10:00	0°♿			2774 Feb 05 09:08	0°♿	

morning set	2774 Feb 18 00:22	19°  52'09			2775 Jan 29 09:58	0° 	
max. Earth dist.	2774 Feb 22 18:18	27°  49'54	1.40167 AU	max. Earth dist.	2775 Feb 04 19:11	10°  17'48	1.42203 AU
	2774 Feb 24 00:35	0° 					
superior conj	2774 Mar 02 12:46	11°  32'05	-1°56'49	superior conj	2775 Feb 12 04:22	22°  42'43	-2°05'55
minimum elong	2774 Mar 02 16:33	11°  49'16	1°56'34	minimum elong	2775 Feb 12 05:00	22°  45'25	2°05'54
evening rise	2774 Mar 12 09:25	29°  59'15		evening rise	2775 Feb 16 08:37	0° 	
	2774 Mar 12 09:35	0° 		asc. node	2775 Feb 23 10:00	12°  40'44	
asc. node	2774 Mar 18 02:24	10°  37'28		asc. node	2775 Mar 04 23:25	29°  28'25	
evening max el	2774 Mar 28 13:58	25°  37'10	18°25'26	evening max el	2775 Mar 05 07:18	0° 	
retrograde	2774 Apr 05 00:34	29°  37'46		retrograde	2775 Mar 12 00:07	8°  53'59	18°08'32
evening set	2774 Apr 07 09:50	29°  16'10		retrograde	2775 Mar 18 17:28	12°  19'07	
inferior conj	2774 Apr 14 18:35	24°  42'32	2°36'14	evening set	2775 Mar 21 08:45	11°  47'55	
minimum elong	2774 Apr 14 22:24	24°  34'43	2°35'18	inferior conj	2775 Mar 28 01:18	6°  53'38	3°21'05
min. Earth dist.	2774 Apr 18 05:11	21°  55'41	0.58596 AU	minimum elong	2775 Mar 28 03:49	6°  47'41	3°20'43
morning rise	2774 Apr 22 08:03	19°  12'39		min. Earth dist.	2775 Mar 31 07:16	3°  51'04	0.60751 AU
desc. node	2774 Apr 24 21:25	18°  08'39		morning rise	2775 Apr 03 20:53	1°  03'05	
direct	2774 Apr 28 09:48	17°  36'04		direct	2775 Apr 05 17:35	30°  48'48	
morning max el	2774 May 12 19:10	25°  19'07	26°59'03	desc. node	2775 Apr 10 13:53	28°  45'01	
	2774 May 17 03:17	0° 		desc. node	2775 Apr 11 18:25	28°  45'00	
	2774 Jun 05 13:36	0° 			2775 Apr 15 15:44	0° 	
morning set	2774 Jun 11 22:31	12°  43'57		morning max el	2775 Apr 24 20:01	6°  45'06	27°42'24
asc. node	2774 Jun 14 01:40	17°  15'29			2775 May 12 08:57	0° 	
				morning set	2775 May 27 04:37	27°  18'34	
superior conj	2774 Jun 18 23:46	28°  00'26	0°49'52		2775 May 28 11:39	0° 	
minimum elong	2774 Jun 18 21:48	27°  49'36	0°49'28	asc. node	2775 May 31 22:43	7°  23'28	
max. Earth dist.	2774 Jun 18 20:57	27°  44'55	1.32135 AU	max. Earth dist.	2775 Jun 02 08:15	10°  25'55	1.32211 AU
	2774 Jun 19 21:28	0° 					
evening rise	2774 Jun 25 20:39	12°  55'45		superior conj	2775 Jun 03 10:57	12°  52'07	0°26'13
	2774 Jul 04 12:39	0° 		minimum elong	2775 Jun 03 09:47	12°  45'45	0°25'58
desc. node	2774 Jul 21 20:43	25°  03'48		evening rise	2775 Jun 10 07:25	27°  46'57	
evening max el	2774 Jul 25 07:13	29°  10'20	26°29'37		2775 Jun 11 08:38	0° 	
	2774 Jul 26 04:40	0° 			2775 Jun 28 08:11	0° 	
retrograde	2774 Aug 08 06:36	6°  22'04		evening max el	2775 Jul 07 01:29	10°  18'53	25°15'28
evening set	2774 Aug 14 22:36	4°  30'31		desc. node	2775 Jul 08 17:44	11°  18'50'23	
min. Earth dist.	2774 Aug 18 20:35	1°  54'48	0.59762 AU	retrograde	2775 Jul 21 01:20	17°  12'51'18	
	2774 Aug 21 07:06	30°  48'48		evening set	2775 Jul 26 16:19	16°  12'13	
inferior conj	2774 Aug 22 03:39	29°  19'02	-4°47'10	min. Earth dist.	2775 Jul 31 13:21	13°  29'13	0.57744 AU
minimum elong	2774 Aug 22 07:46	29°  10'52	4°46'38	inferior conj	2775 Aug 03 15:21	11°  22'40	-5°03'14
morning rise	2774 Aug 29 19:03	24°  42'50		minimum elong	2775 Aug 03 15:18	11°  22'44	5°03'15
direct	2774 Sep 01 05:05	24°  21'46		morning rise	2775 Aug 11 16:46	7°  08'42	
morning max el	2774 Sep 08 20:22	28°  04'19	18°16'42	direct	2775 Aug 14 05:55	6°  49'15	
asc. node	2774 Sep 10 00:52	29°  17'38		morning max el	2775 Aug 22 23:26	10°  56'02	18°59'20
	2774 Sep 10 15:52	0° 		asc. node	2775 Aug 27 21:55	16°  47'37	
morning set	2774 Sep 24 18:27	23°  23'11			2775 Sep 04 17:47	0° 	
	2774 Sep 28 06:04	0° 		morning set	2775 Sep 08 15:52	7°  35'54	
superior conj	2774 Oct 04 02:14	10°  52'02	1°25'13	superior conj	2775 Sep 17 01:04	24°  02'31	1°39'49
minimum elong	2774 Oct 04 06:00	11°  09'09	1°24'51	minimum elong	2775 Sep 17 03:08	24°  12'24	1°39'43
max. Earth dist.	2774 Oct 11 16:13	24°  14'41	1.40890 AU		2775 Sep 20 04:41	0° 	
	2774 Oct 15 02:25	0° 		max. Earth dist.	2775 Sep 23 20:27	6°  41'20	1.38835 AU
evening rise	2774 Oct 16 10:18	2°  11'13		evening rise	2775 Sep 27 17:08	13°  28'53	
desc. node	2774 Oct 17 20:00	4°  28'21		desc. node	2775 Oct 04 17:03	25°  06'40	
	2774 Nov 03 16:25	0° 			2775 Oct 07 19:22	0° 	
evening max el	2774 Nov 19 15:35	20°  02'18	23°13'49		2775 Oct 29 17:12	0° 	
retrograde	2774 Nov 30 00:16	26°  10'43		evening max el	2775 Nov 02 04:29	3°  40'48	24°33'02
evening set	2774 Dec 04 21:59	24°  09'26		retrograde	2775 Nov 13 14:45	10°  21'02	
asc. node	2774 Dec 07 00:05	22°  03'33		evening set	2775 Nov 19 02:13	8°  03'38	
inferior conj	2774 Dec 10 07:10	17°  45'53	1°06'27	min. Earth dist.	2775 Nov 23 17:45	2°  45'30	0.67567 AU
minimum elong	2774 Dec 10 05:41	17°  50'59	1°05'51	asc. node	2775 Nov 23 21:08	2°  34'15	
min. Earth dist.	2774 Dec 09 21:56	18°  17'41	0.67871 AU	inferior conj	2775 Nov 24 13:33	1°  39'24	0°14'05
morning rise	2774 Dec 15 13:19	11°  37'46		minimum elong	2775 Nov 24 13:12	1°  40'33	0°13'56
direct	2774 Dec 19 19:57	9°  56'19		transit middle	2775 Nov 24 13:12	1°  40'33	0°13'56
morning max el	2774 Dec 28 11:15	14°  58'17	21°19'46	transit begin	2775 Nov 24 11:48	1°  45'16	
	2775 Jan 09 10:51	0° 		transit end	2775 Nov 24 14:37	1°  35'51	
desc. node	2775 Jan 13 19:13	6°  13'45			2775 Nov 25 19:43	30°  48'48	
morning set	2775 Jan 28 14:38	28°  43'35		morning rise	2775 Nov 30 00:15	25°  37'04	
				direct	2775 Dec 03 17:51	24°  17'05	

morning max el	2775 Dec 11 09:48	28° \mathbb{M} 39'37	20°06'43	morning max el	2776 Nov 23 16:05	12° \mathbb{M} 31'01	19°08'01
	2775 Dec 12 16:22	0° \mathbb{X}			2776 Dec 06 14:39	0° \mathbb{X}	
desc. node	2775 Dec 31 16:16	26° \mathbb{X} 27'43		morning set	2776 Dec 16 15:07	15° \mathbb{X} 29'48	
	2776 Jan 03 00:06	0° \mathbb{Z}		desc. node	2776 Dec 17 13:20	16° \mathbb{X} 56'19	
morning set	2776 Jan 07 11:18	6° \mathbb{Z} 51'33			2776 Dec 25 22:04	0° \mathbb{Z}	
max. Earth dist.	2776 Jan 18 04:07	23° \mathbb{Z} 39'52	1.43844 AU	max. Earth dist.	2776 Dec 30 19:52	7° \mathbb{Z} 42'31	1.44878 AU
	2776 Jan 22 02:25	0° \mathbb{A}					
superior conj	2776 Jan 23 18:27	2° \mathbb{A} 43'21	-1°59'35	superior conj	2777 Jan 02 08:01	11° \mathbb{Z} 40'02	-1°34'07
minimum elong	2776 Jan 23 13:34	2° \mathbb{A} 23'21	1°59'20	minimum elong	2777 Jan 01 23:05	11° \mathbb{Z} 04'42	1°33'17
evening rise	2776 Feb 05 17:01	24° \mathbb{A} 32'39			2777 Jan 13 18:02	0° \mathbb{A}	
	2776 Feb 08 20:49	0° \mathbb{H}		evening rise	2777 Jan 17 02:29	5° \mathbb{A} 29'03	
asc. node	2776 Feb 19 20:28	17° \mathbb{H} 43'38			2777 Feb 01 12:35	0° \mathbb{H}	
evening max el	2776 Feb 23 12:40	22° \mathbb{H} 07'44	18°10'53	asc. node	2777 Feb 05 17:30	5° \mathbb{H} 12'35	
retrograde	2776 Feb 29 23:23	25° \mathbb{H} 32'02		evening max el	2777 Feb 06 00:49	5° \mathbb{H} 31'29	18°31'45
evening set	2776 Mar 03 20:12	24° \mathbb{H} 49'58		retrograde	2777 Feb 12 14:05	9° \mathbb{H} 07'46	
inferior conj	2776 Mar 10 00:26	19° \mathbb{H} 35'30	3°39'27	evening set	2777 Feb 15 16:32	8° \mathbb{H} 14'00	
minimum elong	2776 Mar 10 01:03	19° \mathbb{H} 33'51	3°39'25	inferior conj	2777 Feb 21 11:59	2° \mathbb{H} 40'55	3°37'56
min. Earth dist.	2776 Mar 12 17:46	16° \mathbb{H} 41'36	0.62836 AU	minimum elong	2777 Feb 21 10:59	2° \mathbb{H} 43'54	3°37'52
morning rise	2776 Mar 16 04:49	13° \mathbb{H} 32'59		min. Earth dist.	2777 Feb 23 13:49	0° \mathbb{H} 13'43	0.64635 AU
direct	2776 Mar 23 03:08	10° \mathbb{H} 54'49			2777 Feb 23 18:36	30° \mathbb{R} \mathbb{A}	
desc. node	2776 Mar 28 15:28	12° \mathbb{H} 21'19		morning rise	2777 Feb 27 04:54	26° \mathbb{A} 31'46	
morning max el	2776 Apr 06 02:13	18° \mathbb{H} 51'32	27°48'25	direct	2777 Mar 05 23:52	23° \mathbb{A} 41'24	
	2776 Apr 15 12:22	0° \mathbb{Y}		desc. node	2777 Mar 15 12:30	27° \mathbb{A} 56'25	
	2776 May 04 05:51	0° \mathbb{B}			2777 Mar 17 21:27	0° \mathbb{H}	
morning set	2776 May 10 04:53	11° \mathbb{B} 32'14		morning max el	2777 Mar 19 11:38	1° \mathbb{H} 32'23	27°18'58
max. Earth dist.	2776 May 15 15:13	22° \mathbb{B} 49'48	1.32698 AU		2777 Apr 09 15:51	0° \mathbb{Y}	
				morning set	2777 Apr 23 20:37	25° \mathbb{Y} 16'51	
superior conj	2776 May 17 19:41	27° \mathbb{B} 31'57	-0°00'02		2777 Apr 26 05:50	0° \mathbb{B}	
minimum elong	2776 May 17 19:41	27° \mathbb{B} 31'57	0°00'02	max. Earth dist.	2777 Apr 28 14:03	4° \mathbb{B} 45'45	1.33624 AU
behind sun begin	2776 May 17 14:48	27° \mathbb{B} 05'33					
behind sun end	2776 May 18 00:34	27° \mathbb{B} 58'22		superior conj	2777 May 02 00:05	11° \mathbb{B} 54'02	-0°27'58
asc. node	2776 May 17 19:46	27° \mathbb{B} 32'21		minimum elong	2777 May 02 01:30	12° \mathbb{B} 01'32	0°27'40
	2776 May 18 23:00	0° \mathbb{I}		asc. node	2777 May 04 16:49	17° \mathbb{B} 38'20	
evening rise	2776 May 24 19:16	12° \mathbb{I} 37'17		evening rise	2777 May 09 06:22	27° \mathbb{B} 20'40	
	2776 Jun 02 14:46	0° \mathbb{E}			2777 May 10 12:55	0° \mathbb{I}	
evening max el	2776 Jun 17 15:12	20° \mathbb{E} 53'15	23°42'45		2777 May 28 22:54	0° \mathbb{E}	
desc. node	2776 Jun 24 14:46	26° \mathbb{E} 03'11		evening max el	2777 May 30 07:07	1° \mathbb{E} 22'06	22°06'49
retrograde	2776 Jul 01 07:37	27° \mathbb{E} 44'57		desc. node	2777 Jun 11 11:46	7° \mathbb{E} 40'40	
evening set	2776 Jul 05 11:39	27° \mathbb{E} 06'48		retrograde	2777 Jun 12 01:59	7° \mathbb{E} 41'28	
min. Earth dist.	2776 Jul 12 01:32	24° \mathbb{E} 00'52	0.56065 AU	evening set	2777 Jun 14 21:21	7° \mathbb{E} 23'58	
inferior conj	2776 Jul 14 06:49	22° \mathbb{E} 40'35	-4°40'32	min. Earth dist.	2777 Jun 23 12:32	3° \mathbb{E} 42'02	0.55053 AU
minimum elong	2776 Jul 14 01:09	22° \mathbb{E} 49'10	4°39'42	inferior conj	2777 Jun 24 05:45	3° \mathbb{E} 17'51	-3°28'56
morning rise	2776 Jul 22 17:13	18° \mathbb{E} 44'08		minimum elong	2777 Jun 23 21:37	3° \mathbb{E} 29'17	3°26'39
direct	2776 Jul 25 11:40	18° \mathbb{E} 24'49			2777 Jul 01 00:27	30° \mathbb{R} \mathbb{I}	
morning max el	2776 Aug 04 15:59	23° \mathbb{E} 08'08	20°03'32	morning rise	2777 Jul 02 23:38	29° \mathbb{I} 26'08	
	2776 Aug 10 11:37	0° \mathbb{O}		direct	2777 Jul 06 01:29	29° \mathbb{I} 05'02	
asc. node	2776 Aug 13 18:59	5° \mathbb{O} 06'02			2777 Jul 10 21:12	0° \mathbb{E}	
morning set	2776 Aug 22 20:05	22° \mathbb{O} 08'37		morning max el	2777 Jul 17 20:56	4° \mathbb{E} 35'51	21°27'57
	2776 Aug 26 16:20	0° \mathbb{P}		asc. node	2777 Jul 31 16:03	24° \mathbb{E} 01'25	
					2777 Aug 03 19:03	0° \mathbb{O}	
superior conj	2776 Aug 30 13:50	7° \mathbb{P} 54'23	1°45'06	morning set	2777 Aug 07 04:42	6° \mathbb{O} 54'42	
minimum elong	2776 Aug 30 14:07	7° \mathbb{P} 55'50	1°45'06				
max. Earth dist.	2776 Sep 05 01:49	18° \mathbb{P} 39'33	1.36842 AU	superior conj	2777 Aug 14 12:23	22° \mathbb{O} 15'48	1°42'43
evening rise	2776 Sep 08 22:09	25° \mathbb{P} 48'30		minimum elong	2777 Aug 14 11:16	22° \mathbb{O} 10'02	1°42'40
	2776 Sep 11 06:20	0° \mathbb{U}			2777 Aug 18 07:01	0° \mathbb{P}	
desc. node	2776 Sep 20 14:06	15° \mathbb{U} 33'38		max. Earth dist.	2777 Aug 18 13:25	0° \mathbb{P} 32'10	1.35110 AU
	2776 Sep 30 07:50	0° \mathbb{M}		evening rise	2777 Aug 22 21:09	8° \mathbb{P} 59'33	
evening max el	2776 Oct 14 16:44	17° \mathbb{M} 21'56	25°45'10		2777 Sep 03 19:51	0° \mathbb{U}	
retrograde	2776 Oct 27 00:32	24° \mathbb{M} 24'20		desc. node	2777 Sep 07 11:07	5° \mathbb{U} 43'25	
evening set	2776 Nov 02 02:12	21° \mathbb{M} 52'47			2777 Sep 26 04:51	0° \mathbb{M}	
min. Earth dist.	2776 Nov 06 10:08	17° \mathbb{M} 09'58	0.66924 AU	evening max el	2777 Sep 27 05:01	0° \mathbb{M} 59'28	26°42'36
inferior conj	2776 Nov 07 16:55	15° \mathbb{M} 32'19	-0°42'20	retrograde	2777 Oct 10 05:05	8° \mathbb{M} 14'13	
minimum elong	2776 Nov 07 18:01	15° \mathbb{M} 28'48	0°41'52	evening set	2777 Oct 16 19:53	5° \mathbb{M} 33'10	
asc. node	2776 Nov 09 18:11	13° \mathbb{M} 00'57		min. Earth dist.	2777 Oct 20 20:42	1° \mathbb{M} 26'41	0.65933 AU
morning rise	2776 Nov 13 10:08	9° \mathbb{M} 38'29			2777 Oct 22 02:04	30° \mathbb{R} \mathbb{U}	
direct	2776 Nov 16 16:31	8° \mathbb{M} 37'06		inferior conj	2777 Oct 22 15:15	29° \mathbb{U} 20'52	-1°41'21
				minimum elong	2777 Oct 22 18:00	29° \mathbb{U} 12'43	1°40'14

asc. node	2777 Oct 27 15:14	24° <u>♁</u> 18'08		asc. node	2778 Oct 14 12:17	7° <u>♁</u> 01'14	
morning rise	2777 Oct 28 16:46	23° <u>♁</u> 38'25		direct	2778 Oct 15 08:10	6° <u>♁</u> 57'39	
direct	2777 Oct 31 14:03	22° <u>♁</u> 52'01		morning max el	2778 Oct 21 20:11	10° <u>♁</u> 24'42	17°59'16
morning max el	2777 Nov 07 04:24	26° <u>♁</u> 27'53	18°25'14		2778 Nov 04 05:30	0° <u>♁</u>	
	2777 Nov 10 06:16	0° <u>♁</u>		morning set	2778 Nov 08 07:23	6° <u>♁</u> 51'48	
morning set	2777 Nov 26 20:45	25° <u>♁</u> 28'03		desc. node	2778 Nov 21 07:24	28° <u>♁</u> 19'14	
	2777 Nov 29 16:28	0° <u>♁</u>					
desc. node	2777 Dec 04 10:22	7° <u>♁</u> 34'36		superior conj	2778 Nov 21 20:48	29° <u>♁</u> 13'07	-0°03'49
				minimum elong	2778 Nov 21 20:21	29° <u>♁</u> 11'17	0°03'45
superior conj	2777 Dec 12 09:40	20° <u>♁</u> 09'53	-0°52'05	behind sun begin	2778 Nov 21 10:09	28° <u>♁</u> 30'18	
minimum elong	2777 Dec 12 03:05	19° <u>♁</u> 44'03	0°51'14	behind sun end	2778 Nov 22 06:33	29° <u>♁</u> 52'13	
max. Earth dist.	2777 Dec 13 14:45	22° <u>♁</u> 04'05	1.45191 AU		2778 Nov 22 08:29	0° <u>♁</u>	
	2777 Dec 18 16:08	0° <u>♁</u>		max. Earth dist.	2778 Nov 26 09:25	6° <u>♁</u> 25'45	1.44767 AU
evening rise	2777 Dec 28 12:35	15° <u>♁</u> 28'45		evening rise	2778 Dec 08 03:38	24° <u>♁</u> 45'31	
	2778 Jan 06 18:15	0° <u>♁</u>			2778 Dec 11 13:28	0° <u>♁</u>	
greatest brilliancy	2778 Jan 07 16:16	1° <u>♁</u> 25'28	-0.8m	greatest brilliancy	2778 Dec 22 11:55	16° <u>♁</u> 31'03	-0.6m
evening max el	2778 Jan 20 10:07	18° <u>♁</u> 59'35	19°10'10		2779 Jan 01 08:56	0° <u>♁</u>	
asc. node	2778 Jan 23 14:32	21° <u>♁</u> 41'36		evening max el	2779 Jan 03 14:50	2° <u>♁</u> 29'40	20°04'24
retrograde	2778 Jan 27 09:48	22° <u>♁</u> 58'39		asc. node	2779 Jan 10 11:33	6° <u>♁</u> 56'09	
evening set	2778 Jan 30 18:45	21° <u>♁</u> 52'20		retrograde	2779 Jan 11 07:37	7° <u>♁</u> 00'01	
inferior conj	2778 Feb 05 08:22	16° <u>♁</u> 02'53	3°21'40	evening set	2779 Jan 15 00:34	5° <u>♁</u> 39'54	
minimum elong	2778 Feb 05 06:18	16° <u>♁</u> 09'28	3°21'21	inferior conj	2779 Jan 20 10:42	29° <u>♁</u> 36'49	2°54'12
min. Earth dist.	2778 Feb 06 18:56	14° <u>♁</u> 12'34	0.66047 AU	minimum elong	2779 Jan 20 08:10	29° <u>♁</u> 45'20	2°53'34
morning rise	2778 Feb 10 17:34	9° <u>♁</u> 50'22			2779 Jan 20 03:48	30° <u>♁</u>	
direct	2778 Feb 17 03:05	7° <u>♁</u> 01'24		min. Earth dist.	2779 Jan 21 07:23	28° <u>♁</u> 27'19	0.67051 AU
morning max el	2778 Mar 01 21:32	14° <u>♁</u> 35'01	26°20'33	morning rise	2779 Jan 25 15:33	23° <u>♁</u> 23'12	
desc. node	2778 Mar 02 09:32	15° <u>♁</u> 05'34		direct	2779 Jan 31 12:02	20° <u>♁</u> 46'27	
	2778 Mar 14 12:02	0° <u>♁</u>		morning max el	2779 Feb 12 06:19	27° <u>♁</u> 47'56	25°02'17
	2778 Apr 02 10:12	0° <u>♁</u>			2779 Feb 14 08:21	0° <u>♁</u>	
morning set	2778 Apr 07 00:07	8° <u>♁</u> 21'18		desc. node	2779 Feb 17 06:34	3° <u>♁</u> 21'54	
max. Earth dist.	2778 Apr 11 01:38	16° <u>♁</u> 08'40	1.35002 AU		2779 Mar 08 04:58	0° <u>♁</u>	
				morning set	2779 Mar 20 10:27	20° <u>♁</u> 31'32	
superior conj	2778 Apr 15 21:47	25° <u>♁</u> 51'20	-0°56'22	max. Earth dist.	2779 Mar 24 02:00	27° <u>♁</u> 10'01	1.36811 AU
minimum elong	2778 Apr 16 00:42	26° <u>♁</u> 06'15	0°55'49		2779 Mar 25 14:23	0° <u>♁</u>	
	2778 Apr 17 22:03	0° <u>♁</u>					
asc. node	2778 Apr 21 13:52	7° <u>♁</u> 37'02		superior conj	2779 Mar 30 09:52	9° <u>♁</u> 15'58	-1°23'27
evening rise	2778 Apr 23 14:45	11° <u>♁</u> 50'32		minimum elong	2779 Mar 30 13:59	9° <u>♁</u> 36'14	1°22'51
	2778 May 03 03:36	0° <u>♁</u>		evening rise	2779 Apr 07 18:09	26° <u>♁</u> 00'10	
evening max el	2778 May 12 08:21	12° <u>♁</u> 15'58	20°41'04	asc. node	2779 Apr 08 10:53	27° <u>♁</u> 24'02	
retrograde	2778 May 23 15:08	17° <u>♁</u> 45'50			2779 Apr 09 18:14	0° <u>♁</u>	
evening set	2778 May 25 17:02	17° <u>♁</u> 35'22		evening max el	2779 Apr 24 21:40	23° <u>♁</u> 49'45	19°32'43
desc. node	2778 May 29 08:45	16° <u>♁</u> 31'09		retrograde	2779 May 04 10:42	28° <u>♁</u> 26'59	
inferior conj	2778 Jun 03 23:26	13° <u>♁</u> 37'43	-1°38'18	evening set	2779 May 06 11:04	28° <u>♁</u> 15'32	
minimum elong	2778 Jun 03 18:48	13° <u>♁</u> 44'22	1°36'38	inferior conj	2779 May 15 02:25	24° <u>♁</u> 11'05	0°19'51
min. Earth dist.	2778 Jun 05 00:50	13° <u>♁</u> 01'17	0.54950 AU	minimum elong	2779 May 15 03:16	24° <u>♁</u> 09'43	0°19'33
morning rise	2778 Jun 12 19:56	9° <u>♁</u> 30'26		desc. node	2779 May 16 05:46	23° <u>♁</u> 27'16	
direct	2778 Jun 16 10:53	9° <u>♁</u> 02'09		min. Earth dist.	2779 May 17 15:06	22° <u>♁</u> 34'35	0.55810 AU
morning max el	2778 Jun 29 16:14	15° <u>♁</u> 24'24	23°06'52	morning rise	2779 May 23 16:44	19° <u>♁</u> 32'21	
	2778 Jul 11 02:05	0° <u>♁</u>		direct	2779 May 28 05:27	18° <u>♁</u> 46'08	
asc. node	2778 Jul 18 13:06	13° <u>♁</u> 24'33		morning max el	2779 Jun 11 06:41	25° <u>♁</u> 50'57	24°48'51
morning set	2778 Jul 22 15:47	21° <u>♁</u> 48'31			2779 Jun 15 04:46	0° <u>♁</u>	
	2778 Jul 26 11:56	0° <u>♁</u>			2779 Jul 03 21:25	0° <u>♁</u>	
				asc. node	2779 Jul 05 10:09	3° <u>♁</u> 07'13	
superior conj	2778 Jul 29 17:35	6° <u>♁</u> 57'13	1°34'05	morning set	2779 Jul 07 03:35	6° <u>♁</u> 43'48	
minimum elong	2778 Jul 29 15:35	6° <u>♁</u> 46'31	1°33'53				
max. Earth dist.	2778 Aug 01 09:54	12° <u>♁</u> 38'21	1.33752 AU	superior conj	2779 Jul 14 02:52	21° <u>♁</u> 49'32	1°20'15
evening rise	2778 Aug 06 09:42	22° <u>♁</u> 50'28		minimum elong	2779 Jul 14 00:30	21° <u>♁</u> 36'38	1°19'55
	2778 Aug 10 02:37	0° <u>♁</u>		max. Earth dist.	2779 Jul 15 14:40	25° <u>♁</u> 04'04	1.32808 AU
desc. node	2778 Aug 25 08:07	25° <u>♁</u> 28'31			2779 Jul 17 21:46	0° <u>♁</u>	
	2778 Aug 28 12:27	0° <u>♁</u>		evening rise	2779 Jul 21 07:59	7° <u>♁</u> 09'19	
evening max el	2778 Sep 09 16:58	14° <u>♁</u> 24'37	27°18'02		2779 Aug 02 14:32	0° <u>♁</u>	
retrograde	2778 Sep 23 04:07	21° <u>♁</u> 43'15		desc. node	2779 Aug 12 05:07	14° <u>♁</u> 37'43	
evening set	2778 Sep 30 04:48	19° <u>♁</u> 00'44		evening max el	2779 Aug 23 02:55	27° <u>♁</u> 24'30	27°25'06
min. Earth dist.	2778 Oct 03 23:20	15° <u>♁</u> 29'38	0.64588 AU		2779 Aug 26 02:06	0° <u>♁</u>	
inferior conj	2778 Oct 06 06:18	13° <u>♁</u> 00'56	-2°40'50	retrograde	2779 Sep 05 20:47	4° <u>♁</u> 41'11	
minimum elong	2778 Oct 06 10:40	12° <u>♁</u> 49'08	2°39'15	evening set	2779 Sep 13 01:37	2° <u>♁</u> 08'31	
morning rise	2778 Oct 12 17:36	7° <u>♁</u> 32'52			2779 Sep 15 17:35	30° <u>♁</u>	


































































































































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inferior conj	2779 Sep 19 11:18	26° \mathbb{M} 25'18	-3°37'33	inferior conj	2780 Sep 01 02:59	9° \mathbb{M} 25'43	-4°26'08
minimum elong	2779 Sep 19 16:45	26° \mathbb{M} 12'01	3°35'57	minimum elong	2780 Sep 01 08:14	9° \mathbb{M} 14'27	4°25'06
morning rise	2779 Sep 26 09:21	21° \mathbb{M} 14'47		morning rise	2780 Sep 08 12:07	4° \mathbb{M} 36'01	
direct	2779 Sep 28 19:54	20° \mathbb{M} 47'12		direct	2780 Sep 10 21:36	4° \mathbb{M} 13'07	
asc. node	2779 Oct 01 09:20	21° \mathbb{M} 18'21		asc. node	2780 Sep 17 06:23	7° \mathbb{M} 01'45	
morning max el	2779 Oct 05 12:24	24° \mathbb{M} 13'35	17°50'59	morning max el	2780 Sep 18 01:59	7° \mathbb{M} 46'57	18°01'31
	2779 Oct 10 04:19	0° \mathbb{L}			2780 Oct 02 09:40	0° \mathbb{L}	
morning set	2779 Oct 21 17:43	19° \mathbb{L} 23'47		morning set	2780 Oct 03 21:30	2° \mathbb{L} 45'41	
	2779 Oct 27 18:50	0° \mathbb{M}					
superior conj	2779 Nov 02 08:09	9° \mathbb{M} 28'20	0°39'27	superior conj	2780 Oct 13 22:14	21° \mathbb{L} 01'56	1°11'53
minimum elong	2779 Nov 02 11:47	9° \mathbb{M} 43'33	0°38'57	minimum elong	2780 Oct 14 02:34	21° \mathbb{L} 21'07	1°11'23
desc. node	2779 Nov 08 04:25	19° \mathbb{M} 06'23			2780 Oct 19 02:29	0° \mathbb{M}	
max. Earth dist.	2779 Nov 09 01:21	20° \mathbb{M} 30'59	1.43664 AU	max. Earth dist.	2780 Oct 21 12:54	4° \mathbb{M} 05'34	1.42017 AU
	2779 Nov 15 00:41	0° \mathbb{X}		desc. node	2780 Oct 25 01:27	9° \mathbb{M} 52'56	
evening rise	2779 Nov 17 12:28	3° \mathbb{X} 52'39		evening rise	2780 Oct 27 07:57	13° \mathbb{M} 32'07	
	2779 Dec 05 00:50	0° \mathbb{Z}			2780 Nov 07 00:26	0° \mathbb{X}	
evening max el	2779 Dec 17 14:07	16° \mathbb{Z} 00'59	21°11'43	evening max el	2780 Nov 29 08:08	29° \mathbb{X} 34'00	22°27'58
retrograde	2779 Dec 26 05:18	21° \mathbb{Z} 08'13			2780 Nov 29 18:33	0° \mathbb{Z}	
asc. node	2779 Dec 28 08:34	20° \mathbb{Z} 43'02		retrograde	2780 Dec 09 01:06	5° \mathbb{Z} 20'09	
evening set	2779 Dec 30 08:04	19° \mathbb{Z} 32'54		evening set	2780 Dec 13 15:33	3° \mathbb{Z} 28'23	
inferior conj	2780 Jan 04 16:37	13° \mathbb{Z} 19'13	2°17'52	asc. node	2780 Dec 14 05:36	2° \mathbb{Z} 57'42	
minimum elong	2780 Jan 04 14:08	13° \mathbb{Z} 27'47	2°17'04		2780 Dec 16 21:04	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	2780 Jan 05 00:52	12° \mathbb{Z} 50'45	0.67659 AU	inferior conj	2780 Dec 19 00:07	27° \mathbb{X} 07'30	1°34'18
morning rise	2780 Jan 09 20:02	7° \mathbb{Z} 06'26		minimum elong	2780 Dec 18 22:09	27° \mathbb{X} 14'18	1°33'33
direct	2780 Jan 15 01:50	4° \mathbb{Z} 49'03		min. Earth dist.	2780 Dec 18 21:03	27° \mathbb{X} 18'08	0.67899 AU
morning max el	2780 Jan 25 14:52	11° \mathbb{Z} 05'47	23°34'35	morning rise	2780 Dec 24 04:37	20° \mathbb{X} 57'18	
desc. node	2780 Feb 04 03:37	22° \mathbb{Z} 26'04		direct	2780 Dec 28 19:32	19° \mathbb{X} 02'38	
	2780 Feb 09 15:48	0° \mathbb{A}		morning max el	2781 Jan 07 02:30	24° \mathbb{X} 30'18	22°06'59
	2780 Feb 28 23:57	0° \mathbb{H}			2781 Jan 11 23:33	0° \mathbb{Z}	
morning set	2780 Feb 29 21:28	1° \mathbb{H} 30'54		desc. node	2781 Jan 21 00:39	12° \mathbb{Z} 04'15	
max. Earth dist.	2780 Mar 04 20:53	8° \mathbb{H} 22'39	1.38916 AU		2781 Feb 02 02:54	0° \mathbb{A}	
				morning set	2781 Feb 09 03:52	11° \mathbb{A} 06'28	
superior conj	2780 Mar 12 08:33	21° \mathbb{H} 58'21	-1°46'38	max. Earth dist.	2781 Feb 14 18:31	20° \mathbb{A} 20'29	1.41067 AU
minimum elong	2780 Mar 12 12:57	22° \mathbb{H} 19'00	1°46'12		2781 Feb 20 09:48	0° \mathbb{H}	
	2780 Mar 16 13:51	0° \mathbb{Y}		superior conj	2781 Feb 22 12:58	3° \mathbb{H} 45'34	-2°02'15
evening rise	2780 Mar 21 13:54	9° \mathbb{Y} 42'28		minimum elong	2781 Feb 22 15:46	3° \mathbb{H} 57'58	2°02'07
asc. node	2780 Mar 25 07:54	16° \mathbb{Y} 54'30		evening rise	2781 Mar 04 22:34	22° \mathbb{H} 48'20	
	2780 Apr 01 23:30	0° \mathbb{B}			2781 Mar 08 19:51	0° \mathbb{Y}	
evening max el	2780 Apr 06 21:38	6° \mathbb{B} 02'42	18°44'15	asc. node	2781 Mar 12 04:56	6° \mathbb{Y} 01'39	
retrograde	2780 Apr 14 23:10	9° \mathbb{B} 58'58		evening max el	2781 Mar 21 04:56	18° \mathbb{Y} 45'20	18°15'52
evening set	2780 Apr 17 04:58	9° \mathbb{B} 41'51		retrograde	2781 Mar 28 06:40	22° \mathbb{Y} 17'24	
inferior conj	2780 Apr 25 00:35	5° \mathbb{B} 20'00	1°55'52	evening set	2781 Mar 30 18:41	21° \mathbb{Y} 51'47	
minimum elong	2780 Apr 25 04:17	5° \mathbb{B} 13'08	1°54'45	inferior conj	2781 Apr 06 20:01	17° \mathbb{Y} 09'04	2°58'56
min. Earth dist.	2780 Apr 28 08:05	2° \mathbb{B} 53'33	0.57441 AU	minimum elong	2781 Apr 06 23:28	17° \mathbb{Y} 01'35	2°58'14
desc. node	2780 May 02 02:47	0° \mathbb{B} 33'11		min. Earth dist.	2781 Apr 10 05:52	14° \mathbb{Y} 12'45	0.59504 AU
morning rise	2780 May 03 00:26	0° \mathbb{B} 07'17		morning rise	2781 Apr 14 01:45	11° \mathbb{Y} 29'25	
	2780 May 03 07:06	30° \mathbb{R} \mathbb{Y}		desc. node	2781 Apr 18 23:49	9° \mathbb{Y} 43'22	
direct	2780 May 08 13:58	28° \mathbb{Y} 51'13		direct	2781 Apr 20 11:08	9° \mathbb{Y} 37'28	
	2780 May 13 22:28	0° \mathbb{B}		morning max el	2781 May 04 19:27	17° \mathbb{Y} 25'17	27°21'59
morning max el	2780 May 22 22:19	6° \mathbb{B} 23'13	26°18'41		2781 May 15 05:50	0° \mathbb{B}	
	2780 Jun 09 08:21	0° \mathbb{I}			2781 Jun 01 20:51	0° \mathbb{I}	
morning set	2780 Jun 20 14:33	21° \mathbb{I} 35'40		morning set	2781 Jun 04 22:57	6° \mathbb{I} 17'56	
asc. node	2780 Jun 21 07:11	23° \mathbb{I} 03'45		asc. node	2781 Jun 08 04:14	13° \mathbb{I} 08'25	
	2780 Jun 24 12:19	0° \mathbb{E}		max. Earth dist.	2781 Jun 11 13:11	20° \mathbb{I} 30'17	1.32125 AU
superior conj	2780 Jun 27 14:17	6° \mathbb{E} 46'19	1°02'03	superior conj	2781 Jun 12 02:00	21° \mathbb{I} 40'52	0°40'12
minimum elong	2780 Jun 27 12:02	6° \mathbb{E} 33'58	1°01'40	minimum elong	2781 Jun 12 00:20	21° \mathbb{I} 31'39	0°39'52
max. Earth dist.	2780 Jun 28 00:59	7° \mathbb{E} 45'14	1.32274 AU		2781 Jun 15 20:53	0° \mathbb{E}	
evening rise	2780 Jul 04 13:01	21° \mathbb{E} 47'01		evening rise	2781 Jun 18 22:17	6° \mathbb{E} 34'51	
	2780 Jul 08 14:07	0° \mathbb{Q}			2781 Jul 01 04:53	0° \mathbb{Q}	
	2780 Jul 26 18:49	0° \mathbb{M}		desc. node	2781 Jul 15 23:08	20° \mathbb{Q} 02'55	
desc. node	2780 Jul 29 02:07	2° \mathbb{M} 56'10		evening max el	2781 Jul 17 06:40	21° \mathbb{Q} 20'42	26°01'08
evening max el	2780 Aug 04 08:18	9° \mathbb{M} 46'20	26°59'23	retrograde	2781 Jul 31 06:17	28° \mathbb{Q} 29'57	
retrograde	2780 Aug 18 05:58	16° \mathbb{M} 58'58		evening set	2781 Aug 06 13:32	26° \mathbb{Q} 54'11	
evening set	2780 Aug 25 06:07	14° \mathbb{M} 49'06		min. Earth dist.	2781 Aug 10 19:08	24° \mathbb{Q} 17'51	0.58891 AU

inferior conj	2781 Aug 14 01:45	21°♎52'16	-4°57'45	evening set	2782 Jul 17 21:04	8°♏16'00	
minimum elong	2781 Aug 14 04:27	21°♎47'14	4°57'33	min. Earth dist.	2782 Jul 23 09:13	5°♏25'02	0.56965 AU
morning rise	2781 Aug 21 21:32	17°♎25'41		inferior conj	2782 Jul 26 04:44	3°♏36'07	-4°59'15
direct	2781 Aug 24 08:48	17°♎05'21		minimum elong	2782 Jul 26 02:17	3°♏40'06	4°59'05
morning max el	2781 Sep 01 09:47	20°♎56'22	18°32'13		2782 Aug 01 19:51	30°♏	
asc. node	2781 Sep 04 03:27	23°♎57'01		morning rise	2782 Aug 03 10:10	29°♏31'04	
	2781 Sep 08 08:46	0°♏		direct	2782 Aug 06 01:19	29°♏11'55	
morning set	2781 Sep 17 13:38	16°♏43'04			2782 Aug 10 02:04	0°♏	
	2781 Sep 24 11:29	0°♏		morning max el	2782 Aug 15 08:43	3°♏32'20	19°24'06
				asc. node	2782 Aug 22 00:31	11°♏49'01	
superior conj	2781 Sep 26 10:47	3°♏42'03	1°32'40		2782 Sep 01 01:13	0°♏	
minimum elong	2781 Sep 26 13:53	3°♏56'28	1°32'25	morning set	2782 Sep 01 14:15	1°♏05'01	
max. Earth dist.	2781 Oct 03 19:29	16°♏58'23	1.40027 AU				
evening rise	2781 Oct 08 00:57	24°♏11'16		superior conj	2782 Sep 09 16:08	17°♏12'01	1°43'06
desc. node	2781 Oct 11 22:29	0°♏35'28		minimum elong	2782 Sep 09 17:25	17°♏18'17	1°43'03
	2781 Oct 11 13:43	0°♏		max. Earth dist.	2782 Sep 15 23:19	29°♏09'44	1.37960 AU
	2781 Oct 31 20:41	0°♏			2782 Sep 16 10:17	0°♏	
evening max el	2781 Nov 11 22:14	13°♏10'14	23°47'51	evening rise	2782 Sep 19 17:35	5°♏55'58	
retrograde	2781 Nov 22 17:52	19°♏32'51		desc. node	2782 Sep 28 19:30	21°♏09'23	
evening set	2781 Nov 27 21:28	17°♏24'20			2782 Oct 04 12:53	0°♏	
asc. node	2781 Dec 01 02:38	13°♏55'57		evening max el	2782 Oct 25 10:25	26°♏49'23	25°04'58
min. Earth dist.	2781 Dec 02 17:36	11°♏47'00	0.67787 AU		2782 Oct 28 23:52	0°♏	
inferior conj	2781 Dec 03 07:25	11°♏00'01	0°44'50	retrograde	2782 Nov 06 06:34	3°♏41'03	
minimum elong	2781 Dec 03 06:22	11°♏03'34	0°44'23	evening set	2782 Nov 12 00:08	1°♏16'59	
morning rise	2781 Dec 08 15:16	4°♏54'21			2782 Nov 13 08:35	30°♏	
direct	2781 Dec 12 16:10	3°♏22'26		min. Earth dist.	2782 Nov 16 12:14	26°♏13'48	0.67334 AU
morning max el	2781 Dec 20 20:42	8°♏06'04	20°47'10	inferior conj	2782 Nov 17 12:43	24°♏53'35	-0°09'27
	2782 Jan 06 11:15	0°♏		minimum elong	2782 Nov 17 12:57	24°♏52'48	0°09'21
desc. node	2782 Jan 07 21:43	2°♏07'27		transit middle	2782 Nov 17 12:57	24°♏52'48	0°09'21
morning set	2782 Jan 19 08:20	19°♏32'23		transit begin	2782 Nov 17 10:42	25°♏00'14	
	2782 Jan 25 23:08	0°♏		transit end	2782 Nov 17 15:13	24°♏45'23	
max. Earth dist.	2782 Jan 27 23:24	3°♏14'45	1.42967 AU	asc. node	2782 Nov 17 23:42	24°♏17'42	
				morning rise	2782 Nov 23 01:59	18°♏54'38	
superior conj	2782 Feb 03 18:04	14°♏26'43	-2°05'24	direct	2782 Nov 26 14:27	17°♏43'11	
minimum elong	2782 Feb 03 16:31	14°♏20'15	2°05'22	morning max el	2782 Dec 03 22:45	21°♏52'30	19°39'52
	2782 Feb 12 18:16	0°♏			2782 Dec 10 15:09	0°♏	
evening rise	2782 Feb 15 16:16	5°♏09'59		greatest brilliancy	2782 Dec 17 03:30	9°♏22'07	-0.7m
asc. node	2782 Feb 27 01:58	24°♏38'20		desc. node	2782 Dec 25 18:46	22°♏28'07	
	2782 Mar 03 00:13	0°♏		morning set	2782 Dec 29 04:48	27°♏44'03	
evening max el	2782 Mar 04 16:24	1°♏49'33	18°07'07		2782 Dec 30 15:57	0°♏	
retrograde	2782 Mar 11 05:49	5°♏12'59		max. Earth dist.	2783 Jan 10 11:09	16°♏54'45	1.44365 AU
evening set	2782 Mar 13 23:24	4°♏37'19					
	2782 Mar 19 23:48	30°♏		superior conj	2783 Jan 14 20:57	23°♏57'25	-1°51'09
inferior conj	2782 Mar 20 10:14	29°♏34'02	3°31'42	minimum elong	2783 Jan 14 13:48	23°♏28'39	1°50'40
minimum elong	2782 Mar 20 11:56	29°♏29'44	3°31'31		2783 Jan 18 14:24	0°♏	
min. Earth dist.	2782 Mar 23 11:19	26°♏32'32	0.61660 AU	evening rise	2783 Jan 28 14:32	16°♏38'44	
morning rise	2782 Mar 26 22:53	23°♏37'14			2783 Feb 05 13:02	0°♏	
direct	2782 Apr 02 19:07	21°♏12'50		asc. node	2783 Feb 13 23:00	12°♏35'16	
desc. node	2782 Apr 05 20:52	21°♏39'37		evening max el	2783 Feb 16 05:01	15°♏07'51	18°17'31
morning max el	2782 Apr 16 23:02	29°♏09'08	27°49'38	retrograde	2783 Feb 22 15:58	18°♏36'07	
	2782 Apr 17 19:08	0°♏		evening set	2783 Feb 25 15:00	17°♏49'21	
	2782 May 09 03:21	0°♏		inferior conj	2783 Mar 03 15:07	12°♏26'51	3°40'52
morning set	2782 May 20 02:52	20°♏44'14		minimum elong	2783 Mar 03 14:59	12°♏27'13	3°40'52
	2782 May 24 12:48	0°♏		min. Earth dist.	2783 Mar 06 02:03	9°♏42'14	0.63642 AU
max. Earth dist.	2782 May 25 23:13	3°♏05'37	1.32366 AU	morning rise	2783 Mar 09 14:06	6°♏20'43	
asc. node	2782 May 26 01:18	3°♏16'51		direct	2783 Mar 16 11:51	3°♏35'20	
				desc. node	2783 Mar 23 17:56	6°♏04'46	
superior conj	2782 May 27 12:20	6°♏27'33	0°15'21	morning max el	2783 Mar 30 07:03	11°♏31'53	27°39'55
minimum elong	2782 May 27 11:38	6°♏23'41	0°15'12		2783 Apr 13 22:14	0°♏	
behind sun begin	2782 May 27 10:09	6°♏15'35			2783 May 01 13:18	0°♏	
behind sun end	2782 May 27 13:07	6°♏31'48		morning set	2783 May 03 23:55	4°♏47'03	
evening rise	2782 Jun 03 09:43	21°♏25'50		max. Earth dist.	2783 May 09 03:03	15°♏18'08	1.33027 AU
	2782 Jun 07 13:20	0°♏					
	2782 Jun 26 18:55	0°♏		superior conj	2783 May 11 19:30	21°♏00'46	-0°11'45
evening max el	2782 Jun 28 22:07	2°♏10'46	24°37'20	minimum elong	2783 May 11 20:04	21°♏03'52	0°11'37
desc. node	2782 Jul 02 20:09	5°♏29'15		behind sun begin	2783 May 11 16:24	20°♏44'10	
retrograde	2782 Jul 12 20:06	9°♏13'17		behind sun end	2783 May 11 23:45	21°♏23'36	

asc. node	2783 May 12 22:20	23°♄25'03		asc. node	2784 Apr 28 19:21	13°♄28'23	
	2783 May 15 23:32	0°♄		evening rise	2784 May 02 07:38	20°♄52'07	
evening rise	2783 May 18 21:28	6°♄13'53			2784 May 06 19:42	0°♄	
	2783 May 31 13:32	0°♄		evening max el	2784 May 22 07:07	23°♄16'00	21°28'38
evening max el	2783 Jun 10 11:45	12°♄38'58	23°01'32	retrograde	2784 Jun 03 12:01	29°♄15'09	
desc. node	2783 Jun 19 17:09	18°♄40'11		evening set	2784 Jun 05 21:39	29°♄02'02	
retrograde	2783 Jun 23 21:32	19°♄20'05		desc. node	2784 Jun 05 14:11	29°♄05'10	
evening set	2783 Jun 27 10:07	18°♄52'52		inferior conj	2784 Jun 15 07:17	25°♄01'58	-2°45'15
min. Earth dist.	2783 Jul 04 20:55	15°♄33'04	0.55524 AU	minimum elong	2784 Jun 15 00:00	25°♄12'09	2°42'54
inferior conj	2783 Jul 06 12:22	14°♄35'48	-4°16'15	min. Earth dist.	2784 Jun 15 08:26	25°♄00'21	0.54888 AU
minimum elong	2783 Jul 06 04:57	14°♄46'36	4°14'43	morning rise	2784 Jun 24 03:05	21°♄05'53	
morning rise	2783 Jul 15 02:12	10°♄43'21		direct	2784 Jun 27 09:43	20°♄42'30	
direct	2783 Jul 17 23:06	10°♄23'48		morning max el	2784 Jul 09 20:45	26°♄35'56	22°08'45
morning max el	2783 Jul 28 20:29	15°♄26'48	20°37'11		2784 Jul 13 03:06	0°♄	
asc. node	2783 Aug 08 21:35	0°♄24'49		asc. node	2784 Jul 25 18:37	19°♄32'50	
	2783 Aug 08 15:51	0°♄			2784 Jul 30 23:56	0°♄	
morning set	2783 Aug 16 20:37	15°♄44'28		morning set	2784 Jul 31 06:29	0°♄34'12	
	2783 Aug 23 18:12	0°♄					
superior conj	2783 Aug 24 09:32	1°♄18'21	1°44'56	superior conj	2784 Aug 07 11:13	15°♄48'59	1°39'45
minimum elong	2783 Aug 24 09:10	1°♄16'31	1°44'56	minimum elong	2784 Aug 07 09:40	15°♄40'48	1°39'38
max. Earth dist.	2783 Aug 29 06:25	11°♄01'23	1.36062 AU	max. Earth dist.	2784 Aug 10 21:44	22°♄58'11	1.34486 AU
evening rise	2783 Sep 02 06:52	18°♄39'43			2784 Aug 14 09:42	0°♄	
	2783 Sep 08 15:38	0°♄		evening rise	2784 Aug 15 12:09	2°♄09'12	
desc. node	2783 Sep 15 16:31	11°♄29'57			2784 Aug 31 13:47	0°♄	
	2783 Sep 28 16:40	0°♄		desc. node	2784 Sep 01 13:32	1°♄30'15	
evening max el	2783 Oct 07 22:37	10°♄30'03	26°11'48	evening max el	2784 Sep 19 11:09	24°♄04'34	27°00'50
retrograde	2783 Oct 20 14:22	17°♄39'28			2784 Sep 27 10:16	0°♄	
evening set	2783 Oct 26 21:42	15°♄03'15		retrograde	2784 Oct 02 16:34	1°♄21'18	
min. Earth dist.	2783 Oct 31 02:33	10°♄35'35	0.66545 AU		2784 Oct 07 12:47	30°♄	
inferior conj	2783 Nov 01 14:12	8°♄45'24	-1°07'11	evening set	2784 Oct 09 11:58	28°♄38'50	
minimum elong	2783 Nov 01 16:00	8°♄39'52	1°06'25	min. Earth dist.	2784 Oct 13 10:07	24°♄47'24	0.65406 AU
asc. node	2783 Nov 04 20:46	5°♄00'01		inferior conj	2784 Oct 15 09:46	22°♄31'21	-2°06'41
morning rise	2783 Nov 07 10:45	2°♄55'51		minimum elong	2784 Oct 15 13:13	22°♄21'28	2°05'19
direct	2783 Nov 10 12:54	2°♄01'23		morning rise	2784 Oct 21 15:15	16°♄54'18	
morning max el	2783 Nov 17 07:49	5°♄46'45	18°47'40	asc. node	2784 Oct 21 17:48	16°♄51'12	
	2783 Dec 04 09:25	0°♄		direct	2784 Oct 24 09:24	16°♄13'00	
morning set	2783 Dec 08 18:10	6°♄52'29		morning max el	2784 Oct 30 21:52	19°♄44'06	18°11'59
desc. node	2783 Dec 12 15:48	13°♄01'08			2784 Nov 07 16:33	0°♄	
	2783 Dec 23 11:20	0°♄		morning set	2784 Nov 18 12:34	17°♄29'05	
max. Earth dist.	2783 Dec 24 04:01	1°♄05'33	1.45104 AU		2784 Nov 26 05:19	0°♄	
				desc. node	2784 Nov 28 12:49	3°♄42'39	
superior conj	2783 Dec 25 03:08	2°♄36'19	-1°17'50	superior conj	2784 Dec 03 06:15	11°♄13'31	-0°31'36
minimum elong	2783 Dec 24 18:22	2°♄01'52	1°16'52	minimum elong	2784 Dec 03 02:12	10°♄57'32	0°31'03
evening rise	2784 Jan 09 13:54	27°♄09'48		max. Earth dist.	2784 Dec 05 23:25	15°♄30'28	1.45105 AU
	2784 Jan 11 08:07	0°♄			2784 Dec 15 05:50	0°♄	
evening max el	2784 Jan 30 16:14	28°♄34'09	18°46'07	evening rise	2784 Dec 19 14:52	6°♄48'50	
asc. node	2784 Jan 31 20:02	29°♄40'34		greatest brilliancy	2784 Dec 31 19:59	25°♄40'17	-0.7m
	2784 Feb 01 05:01	0°♄			2785 Jan 03 17:33	0°♄	
retrograde	2784 Feb 06 09:03	2°♄18'45		evening max el	2785 Jan 12 23:51	12°♄04'10	19°31'31
evening set	2784 Feb 09 14:06	1°♄19'51		asc. node	2785 Jan 17 17:03	15°♄40'20	
	2784 Feb 11 08:26	30°♄		retrograde	2785 Jan 20 05:53	16°♄15'11	
inferior conj	2784 Feb 15 06:47	25°♄39'49	3°32'34	evening set	2785 Jan 23 18:08	15°♄03'01	
minimum elong	2784 Feb 15 05:16	25°♄44'31	3°32'24	inferior conj	2785 Jan 29 06:01	9°♄07'32	3°11'13
min. Earth dist.	2784 Feb 17 02:07	23°♄27'12	0.65289 AU	minimum elong	2785 Jan 29 03:41	9°♄15'10	3°10'45
morning rise	2784 Feb 20 19:59	19°♄28'59		min. Earth dist.	2785 Jan 30 10:28	7°♄34'31	0.66529 AU
direct	2784 Feb 27 11:40	16°♄37'20		morning rise	2785 Feb 03 13:01	2°♄54'37	
desc. node	2784 Mar 09 14:58	22°♄23'30		direct	2785 Feb 09 17:24	0°♄09'44	
morning max el	2784 Mar 11 16:42	24°♄22'45	26°57'03	morning max el	2785 Feb 22 02:02	7°♄30'38	25°49'03
	2784 Mar 16 18:32	0°♄		desc. node	2785 Feb 24 11:59	10°♄04'17	
	2784 Apr 06 07:54	0°♄			2785 Mar 11 14:54	0°♄	
morning set	2784 Apr 16 10:54	18°♄15'55			2785 Mar 29 18:49	0°♄	
max. Earth dist.	2784 Apr 20 21:01	26°♄58'25	1.34149 AU	morning set	2785 Mar 30 07:43	0°♄59'10	
	2784 Apr 22 08:45	0°♄		max. Earth dist.	2785 Apr 03 03:34	8°♄10'06	1.35731 AU
superior conj	2784 Apr 24 21:20	5°♄13'19	-0°40'02	superior conj	2785 Apr 08 15:21	18°♄58'13	-1°08'08
minimum elong	2784 Apr 24 23:24	5°♄24'05	0°39'38	minimum elong	2785 Apr 08 18:50	19°♄15'48	1°07'33

	2785 Apr 14 00:52	0°♄		superior conj	2786 Mar 22 22:12	2°♄05'55	-1°33'58
asc. node	2785 Apr 15 16:22	3°♄23'01		minimum elong	2786 Mar 23 02:37	2°♄27'10	1°33'24
evening rise	2785 Apr 16 14:11	5°♄14'36		evening rise	2786 Mar 31 14:41	19°♄13'42	
	2785 Apr 30 16:13	0°♄		asc. node	2786 Apr 02 13:24	23°♄03'49	
evening max el	2785 May 04 13:28	4°♄26'07	20°09'34		2786 Apr 06 04:44	0°♄	
retrograde	2785 May 15 01:59	9°♄32'35		evening max el	2786 Apr 17 07:30	16°♄16'34	19°09'31
evening set	2785 May 17 02:04	9°♄22'17		retrograde	2786 Apr 26 04:20	20°♄34'58	
desc. node	2785 May 23 11:11	6°♄55'32		evening set	2786 Apr 28 06:33	20°♄21'35	
inferior conj	2785 May 26 03:09	5°♄23'18	-0°46'58	inferior conj	2786 May 06 13:33	16°♄10'06	1°04'25
minimum elong	2785 May 26 00:57	5°♄26'34	0°46'09	minimum elong	2786 May 06 16:03	16°♄05'51	1°03'34
min. Earth dist.	2785 May 27 21:08	4°♄21'01	0.55213 AU	min. Earth dist.	2786 May 09 12:14	14°♄10'38	0.56427 AU
morning rise	2785 Jun 03 22:16	1°♄04'22		desc. node	2786 May 10 08:11	13°♄38'39	
direct	2785 Jun 07 21:51	0°♄29'54		morning rise	2786 May 14 22:29	11°♄16'24	
morning max el	2785 Jun 21 13:02	7°♄11'05	23°50'46	direct	2786 May 19 21:35	10°♄19'05	
	2785 Jul 07 22:02	0°♄		morning max el	2786 Jun 03 03:26	17°♄37'01	25°29'39
asc. node	2785 Jul 12 15:39	9°♄04'52			2786 Jun 13 08:38	0°♄	
morning set	2785 Jul 15 18:04	15°♄29'03		asc. node	2786 Jun 29 12:42	28°♄54'21	
	2785 Jul 22 11:51	0°♄		morning set	2786 Jun 30 05:44	0°♄23'56	
					2786 Jun 30 01:12	0°♄	
superior conj	2785 Jul 22 18:23	0°♄35'21	1°28'47	superior conj	2786 Jul 07 04:49	15°♄30'33	1°13'00
minimum elong	2785 Jul 22 16:10	0°♄23'22	1°28'32	minimum elong	2786 Jul 07 02:27	15°♄17'33	1°12'39
max. Earth dist.	2785 Jul 24 22:11	5°♄13'19	1.33305 AU	max. Earth dist.	2786 Jul 08 05:47	17°♄47'08	1.32528 AU
evening rise	2785 Jul 30 05:14	16°♄12'49			2786 Jul 13 22:52	0°♄	
	2785 Aug 06 10:32	0°♄		evening rise	2786 Jul 14 06:43	0°♄40'42	
desc. node	2785 Aug 19 10:32	21°♄01'24			2786 Jul 30 10:38	0°♄	
	2785 Aug 26 04:58	0°♄		desc. node	2786 Aug 06 07:32	9°♄51'31	
evening max el	2785 Sep 01 22:36	7°♄20'36	27°24'50	evening max el	2786 Aug 15 06:47	20°♄05'28	27°18'14
retrograde	2785 Sep 15 12:40	14°♄38'03		retrograde	2786 Aug 29 02:20	27°♄20'49	
evening set	2785 Sep 22 16:09	11°♄58'19		evening set	2786 Sep 05 06:39	24°♄55'51	
min. Earth dist.	2785 Sep 26 08:40	8°♄41'12	0.63914 AU	min. Earth dist.	2786 Sep 08 20:54	22°♄05'58	0.62100 AU
inferior conj	2785 Sep 28 20:53	6°♄05'26	-3°05'29	inferior conj	2786 Sep 11 20:39	19°♄20'57	-3°59'35
minimum elong	2785 Sep 29 01:48	5°♄52'41	3°03'50	minimum elong	2786 Sep 12 02:15	19°♄08'03	3°58'11
morning rise	2785 Oct 05 12:39	0°♄44'27		morning rise	2786 Sep 18 23:28	14°♄19'18	
direct	2785 Oct 08 01:18	0°♄12'43		direct	2786 Sep 21 09:13	13°♄54'02	
asc. node	2785 Oct 08 14:51	0°♄14'20		asc. node	2786 Sep 25 11:54	15°♄10'13	
morning max el	2785 Oct 14 14:10	3°♄38'09	17°53'34	morning max el	2786 Sep 28 05:46	17°♄22'18	17°53'13
morning set	2785 Oct 31 10:06	29°♄24'39			2786 Oct 07 05:25	0°♄	
	2785 Oct 31 18:20	0°♄		morning set	2786 Oct 14 04:38	12°♄20'22	
					2786 Oct 24 03:37	0°♄	
superior conj	2785 Nov 13 02:38	20°♄44'39	0°15'40	superior conj	2786 Oct 25 01:46	1°♄35'10	0°54'38
minimum elong	2785 Nov 13 04:21	20°♄51'40	0°15'25	minimum elong	2786 Oct 25 06:02	1°♄53'30	0°54'05
behind sun begin	2785 Nov 13 01:23	20°♄39'33		max. Earth dist.	2786 Nov 01 08:12	13°♄44'17	1.43014 AU
behind sun end	2785 Nov 13 07:19	21°♄03'46		desc. node	2786 Nov 02 06:53	15°♄16'36	
desc. node	2785 Nov 15 09:51	24°♄28'48		evening rise	2786 Nov 08 12:53	25°♄13'43	
max. Earth dist.	2785 Nov 18 17:51	29°♄49'35	1.44377 AU		2786 Nov 11 14:42	0°♄	
	2785 Nov 18 20:28	0°♄			2786 Dec 02 07:34	0°♄	
evening rise	2785 Nov 29 01:21	15°♄57'07		evening max el	2786 Dec 09 23:10	9°♄06'47	21°43'13
	2785 Dec 08 07:12	0°♄		retrograde	2786 Dec 19 01:09	14°♄31'05	
evening max el	2785 Dec 27 02:19	25°♄34'54	20°31'36	asc. node	2786 Dec 22 11:08	13°♄27'22	
	2786 Jan 02 04:45	0°♄		evening set	2786 Dec 23 08:38	12°♄48'49	
retrograde	2786 Jan 04 03:55	0°♄20'18		inferior conj	2786 Dec 28 17:00	6°♄31'20	2°00'13
asc. node	2786 Jan 04 14:06	0°♄19'18		minimum elong	2786 Dec 28 14:41	6°♄39'22	1°59'23
	2786 Jan 06 01:17	30°♄3		min. Earth dist.	2786 Dec 28 20:16	6°♄19'59	0.67805 AU
evening set	2786 Jan 08 00:54	28°♄53'40		morning rise	2787 Jan 02 20:34	0°♄19'16	
inferior conj	2786 Jan 13 10:08	22°♄45'29	2°39'45		2787 Jan 03 05:48	30°♄	
minimum elong	2786 Jan 13 07:34	22°♄54'15	2°39'01	direct	2787 Jan 07 19:53	28°♄11'34	
min. Earth dist.	2786 Jan 14 01:16	21°♄53'57	0.67360 AU		2787 Jan 12 23:00	0°♄	
morning rise	2786 Jan 18 14:04	16°♄32'10		morning max el	2787 Jan 17 20:12	4°♄07'52	22°56'44
direct	2786 Jan 24 04:20	14°♄03'20		desc. node	2787 Jan 29 06:05	18°♄03'19	
morning max el	2786 Feb 04 10:35	20°♄46'29	24°25'34		2787 Feb 06 14:53	0°♄	
desc. node	2786 Feb 11 09:01	28°♄42'58		morning set	2787 Feb 21 08:13	23°♄06'04	
	2786 Feb 12 09:19	0°♄			2787 Feb 25 10:24	0°♄	
	2786 Mar 04 20:17	0°♄		max. Earth dist.	2787 Feb 25 20:12	0°♄42'08	1.39845 AU
morning set	2786 Mar 12 08:53	12°♄41'03					
max. Earth dist.	2786 Mar 16 01:08	19°♄13'39	1.37690 AU	superior conj	2787 Mar 05 13:44	14°♄26'11	-1°54'28
	2786 Mar 21 19:58	0°♄					

minimum elong	2787 Mar 05 17:45	14° H 44'36	1°54'09	superior conj	2788 Feb 15 08:55	25° \approx 47'33	-2°05'25
	2787 Mar 13 20:21	0° Y		minimum elong	2788 Feb 15 10:12	25° \approx 53'10	2°05'24
evening rise	2787 Mar 15 06:12	2° Y 41'43			2788 Feb 17 18:38	0° H	
asc. node	2787 Mar 20 10:27	12° Y 25'23		evening rise	2788 Feb 26 09:04	15° H 30'28	
evening max el	2787 Mar 31 10:58	28° Y 43'15	18°29'42		2788 Mar 05 11:57	0° Y	
	2787 Apr 01 21:38	0° B		asc. node	2788 Mar 06 07:29	1° Y 21'18	
retrograde	2787 Apr 08 01:06	2° B 27'24		evening max el	2788 Mar 13 20:33	11° Y 37'27	18°09'49
evening set	2787 Apr 10 09:26	2° B 07'04		retrograde	2788 Mar 20 15:40	15° Y 03'44	
	2787 Apr 14 16:10	30° R Y		evening set	2788 Mar 23 06:09	14° Y 34'00	
inferior conj	2787 Apr 17 20:55	27° Y 36'42	2°26'42	inferior conj	2788 Mar 30 00:52	9° Y 42'45	3°16'06
minimum elong	2787 Apr 18 00:48	27° Y 28'58	2°25'41	minimum elong	2788 Mar 30 03:39	9° Y 36'17	3°15'39
min. Earth dist.	2787 Apr 21 07:15	24° Y 54'16	0.58283 AU	min. Earth dist.	2788 Apr 02 08:10	6° Y 40'59	0.60431 AU
morning rise	2787 Apr 25 13:07	22° Y 10'53		morning rise	2788 Apr 05 23:02	3° Y 54'50	
desc. node	2787 Apr 27 05:14	21° Y 27'06		direct	2788 Apr 12 14:27	1° Y 47'41	
direct	2787 May 01 11:56	20° Y 39'37		desc. node	2788 Apr 13 02:17	1° Y 48'22	
morning max el	2787 May 15 21:17	28° Y 20'30	26°49'37	morning max el	2788 Apr 26 21:07	9° Y 40'13	27°38'15
	2787 May 17 12:28	0° B			2788 May 12 13:27	0° B	
	2787 Jun 06 23:20	0° II		morning set	2788 May 28 22:34	29° B 49'30	
morning set	2787 Jun 14 15:48	15° II 12'41			2788 May 29 00:35	0° II	
asc. node	2787 Jun 16 09:44	18° II 55'07		asc. node	2788 Jun 02 06:47	9° II 02'28	
	2787 Jun 21 11:36	0° E		max. Earth dist.	2788 Jun 04 04:50	13° II 13'20	1.32177 AU
superior conj	2787 Jun 21 16:34	0° E 27'25	0°53'11	superior conj	2788 Jun 05 03:57	15° II 20'09	0°30'00
minimum elong	2787 Jun 21 14:31	0° E 16'06	0°52'48	minimum elong	2788 Jun 05 02:38	15° II 12'57	0°29'43
max. Earth dist.	2787 Jun 21 17:12	0° E 30'52	1.32154 AU		2788 Jun 11 21:33	0° E	
evening rise	2787 Jun 28 13:47	15° E 23'37		evening rise	2788 Jun 12 00:15	0° E 14'18	
	2787 Jul 05 21:59	0° O			2788 Jun 28 07:26	0° O	
desc. node	2787 Jul 24 04:34	27° O 42'52		evening max el	2788 Jul 09 04:31	13° O 22'23	25°28'01
	2787 Jul 26 06:21	0° P		desc. node	2788 Jul 10 01:33	14° O 11'20	
evening max el	2787 Jul 28 09:11	2° P 07'18	26°38'25	retrograde	2788 Jul 23 04:30	20° O 29'26	
retrograde	2787 Aug 11 08:20	9° P 19'30		evening set	2788 Jul 29 00:04	19° O 10'34	
evening set	2787 Aug 18 02:48	7° P 22'52		min. Earth dist.	2788 Aug 02 16:34	16° O 29'48	0.58035 AU
min. Earth dist.	2787 Aug 21 22:56	4° P 46'28	0.60071 AU	inferior conj	2788 Aug 05 20:10	14° O 17'49	-5°03'02
inferior conj	2787 Aug 25 05:34	2° P 08'09	-4°42'22	minimum elong	2788 Aug 05 20:55	14° O 16'29	5°03'00
minimum elong	2787 Aug 25 10:04	1° P 59'02	4°41'42	morning rise	2788 Aug 13 20:09	10° O 00'32	
	2787 Aug 27 23:56	30° R O		direct	2788 Aug 16 08:46	9° O 40'52	
morning rise	2787 Sep 01 19:22	27° O 28'24		morning max el	2788 Aug 24 21:41	13° O 43'16	18°51'34
direct	2787 Sep 04 05:06	27° O 06'58		asc. node	2788 Aug 29 06:01	18° O 47'19	
	2787 Sep 10 20:44	0° P			2788 Sep 05 03:10	0° P	
morning max el	2787 Sep 11 17:21	0° P 47'04	18°12'05	morning set	2788 Sep 10 10:17	10° P 07'25	
asc. node	2787 Sep 12 08:58	1° P 26'12					
morning set	2787 Sep 27 14:11	25° P 58'38		superior conj	2788 Sep 18 22:20	26° P 41'35	1°38'15
	2787 Sep 29 17:20	0° A		minimum elong	2788 Sep 19 00:40	26° P 52'43	1°38'06
superior conj	2787 Oct 07 02:04	13° A 38'58	1°22'03		2788 Sep 20 16:20	0° A	
minimum elong	2787 Oct 07 06:01	13° A 56'50	1°21'39	max. Earth dist.	2788 Sep 25 21:36	9° A 32'30	1.39145 AU
max. Earth dist.	2787 Oct 14 16:53	26° A 59'24	1.41191 AU	evening rise	2788 Sep 29 19:52	16° A 23'46	
	2787 Oct 16 11:50	0° M		desc. node	2788 Oct 06 00:56	26° A 41'23	
evening rise	2787 Oct 19 16:41	5° M 16'24			2788 Oct 08 02:53	0° M	
desc. node	2787 Oct 20 03:55	6° M 02'01			2788 Oct 29 11:02	0° J	
	2787 Nov 04 20:39	0° J		evening max el	2788 Nov 04 04:26	6° J 19'01	24°21'33
evening max el	2787 Nov 22 15:15	22° J 41'01	23°01'53	retrograde	2788 Nov 15 10:57	12° J 54'46	
retrograde	2787 Dec 02 19:56	28° J 43'50		evening set	2788 Nov 20 20:23	10° J 39'39	
evening set	2787 Dec 07 15:40	26° J 45'09		asc. node	2788 Nov 25 05:14	5° J 42'42	
asc. node	2787 Dec 09 08:11	25° J 06'37		min. Earth dist.	2788 Nov 25 13:05	5° J 16'34	0.67634 AU
min. Earth dist.	2787 Dec 12 17:02	20° J 48'28	0.67889 AU	inferior conj	2788 Nov 26 07:19	4° J 15'22	0°22'20
inferior conj	2787 Dec 13 00:39	20° J 22'12	1°14'01	minimum elong	2788 Nov 26 06:46	4° J 17'11	0°22'06
minimum elong	2787 Dec 12 23:02	20° J 27'47	1°13'21		2788 Nov 29 17:29	30° R M	
morning rise	2787 Dec 18 06:18	14° J 13'24		morning rise	2788 Dec 01 17:12	28° M 12'08	
direct	2787 Dec 22 15:04	12° J 28'28		direct	2788 Dec 05 12:40	26° M 49'04	
morning max el	2787 Dec 31 10:15	17° J 36'55	21°31'40		2788 Dec 11 23:17	0° J	
	2788 Jan 10 12:54	0° Z		morning max el	2788 Dec 13 07:36	1° J 16'36	20°16'46
desc. node	2788 Jan 16 03:10	7° Z 53'33		desc. node	2789 Jan 02 00:12	28° J 04'56	
	2788 Jan 30 17:55	0° \approx			2789 Jan 03 06:40	0° Z	
morning set	2788 Feb 01 02:33	2° \approx 08'54		morning set	2789 Jan 10 00:27	10° Z 19'13	
max. Earth dist.	2788 Feb 07 20:06	13° \approx 02'22	1.41920 AU	max. Earth dist.	2789 Jan 20 04:13	26° Z 18'32	1.43636 AU
					2789 Jan 22 11:08	0° \approx	

superior conj	2789 Jan 26 02:56	5°  58'54	-2°01'43	max. Earth dist.	2790 Jan 02 19:08	10°  16'27	1.44766 AU
minimum elong	2789 Jan 25 22:56	5°  42'24	2°01'34				
evening rise	2789 Feb 07 19:00	27°  30'30		superior conj	2790 Jan 05 19:36	15°  03'21	-1°39'13
	2789 Feb 09 05:22	0°  ✕		minimum elong	2790 Jan 05 10:56	14°  28'56	1°38'26
asc. node	2789 Feb 21 04:32	19°  ✕42'41			2790 Jan 15 02:24	0°  ≈	
evening max el	2789 Feb 25 08:56	24°  ✕49'08	18°09'15	evening rise	2790 Jan 20 07:51	8°  ≈35'30	
retrograde	2789 Mar 03 19:58	28°  ✕12'44			2790 Feb 02 12:57	0°  ✕	
evening set	2789 Mar 06 15:59	27°  ✕32'17		asc. node	2790 Feb 08 01:33	7°  ✕19'28	
inferior conj	2789 Mar 12 21:48	22°  ✕20'36	3°38'01	evening max el	2790 Feb 08 21:14	8°  ✕11'34	18°27'26
minimum elong	2789 Mar 12 22:42	22°  ✕18'14	3°37'58	retrograde	2790 Feb 15 09:40	11°  ✕45'30	
min. Earth dist.	2789 Mar 15 17:13	19°  ✕24'13	0.62542 AU	evening set	2790 Feb 18 11:10	10°  ✕53'35	
morning rise	2789 Mar 19 04:13	16°  ✕19'24		inferior conj	2790 Feb 24 07:44	5°  ✕23'04	3°39'10
direct	2789 Mar 26 02:16	13°  ✕44'31		minimum elong	2790 Feb 24 06:56	5°  ✕25'23	3°39'08
desc. node	2789 Mar 30 23:21	14°  ✕52'12		min. Earth dist.	2790 Feb 26 11:54	2°  ✕51'02	0.64390 AU
morning max el	2789 Apr 09 02:42	21°  ✕41'04	27°49'53		2790 Mar 01 05:25	30°  R≈	
	2789 Apr 16 09:05	0°  Y		morning rise	2790 Mar 02 02:06	29°  ≈14'30	
	2789 May 05 15:48	0°  B		direct	2790 Mar 08 21:56	26°  ≈25'05	
morning set	2789 May 12 23:51	14°  B06'42		desc. node	2790 Mar 17 20:24	0°  ✕10'10	
max. Earth dist.	2789 May 18 12:46	25°  B40'51	1.32603 AU		2790 Mar 17 15:01	0°  ✕	
asc. node	2789 May 20 03:49	29°  B11'18		morning max el	2790 Mar 22 11:54	4°  ✕17'54	27°25'23
					2790 Apr 10 21:54	0°  Y	
superior conj	2789 May 20 13:09	0°  II01'57	0°04'07	morning set	2790 Apr 26 17:03	27°  Y56'25	
minimum elong	2789 May 20 12:57	0°  II00'52	0°04'04		2790 Apr 27 18:05	0°  B	
behind sun begin	2789 May 20 07:55	29°  B33'32		max. Earth dist.	2790 May 01 13:03	7°  B41'37	1.33457 AU
behind sun end	2789 May 20 18:00	0°  II28'14					
	2789 May 20 12:48	0°  II		superior conj	2790 May 04 18:19	14°  B27'03	-0°23'39
evening rise	2789 May 27 12:03	15°  II05'07		minimum elong	2790 May 04 19:30	14°  B33'24	0°23'25
	2789 Jun 03 22:52	0°  ☿		asc. node	2790 May 07 00:51	19°  B17'58	
evening max el	2789 Jun 20 18:28	23°  ☿59'51	23°57'03	evening rise	2790 May 11 23:22	29°  B49'57	
desc. node	2789 Jun 26 22:33	28°  ☿44'39			2790 May 12 01:17	0°  II	
	2789 Jun 29 14:58	0°  Ω			2790 May 29 08:55	0°  ☿	
retrograde	2789 Jul 04 12:34	0°  Ω54'44		evening max el	2790 Jun 02 09:26	4°  ☿27'11	22°20'40
evening set	2789 Jul 08 22:12	0°  Ω11'59		desc. node	2790 Jun 13 19:35	10°  ☿47'35	
	2789 Jul 09 12:30	30°  R☿		retrograde	2790 Jun 15 08:43	10°  ☿53'05	
min. Earth dist.	2789 Jul 15 04:58	27°  ☿10'25	0.56280 AU	evening set	2790 Jun 18 08:05	10°  ☿33'32	
inferior conj	2789 Jul 17 14:31	25°  ☿42'22	-4°47'04	min. Earth dist.	2790 Jun 26 16:01	6°  ☿57'45	0.55145 AU
minimum elong	2789 Jul 17 09:37	25°  ☿49'54	4°46'27	inferior conj	2790 Jun 27 15:21	6°  ☿24'48	-3°42'49
morning rise	2789 Jul 25 23:39	21°  ☿44'07		minimum elong	2790 Jun 27 07:12	6°  ☿36'20	3°40'41
direct	2789 Jul 28 17:16	21°  ☿24'51		morning rise	2790 Jul 06 08:18	2°  ☿33'37	
morning max el	2789 Aug 07 15:53	26°  ☿01'39	19°52'41	direct	2790 Jul 09 08:40	2°  ☿13'06	
	2789 Aug 11 07:05	0°  Ω		morning max el	2790 Jul 20 22:35	7°  ☿36'29	21°14'20
asc. node	2789 Aug 16 03:04	6°  Ω59'15		asc. node	2790 Aug 03 00:06	25°  ☿49'48	
morning set	2789 Aug 25 13:39	24°  Ω37'51			2790 Aug 05 05:34	0°  Ω	
	2789 Aug 28 05:01	0°  ♍		morning set	2790 Aug 09 21:44	9°  Ω22'31	
superior conj	2789 Sep 02 09:18	10°  ♍28'25	1°44'50	superior conj	2790 Aug 17 06:37	24°  Ω46'29	1°43'31
minimum elong	2789 Sep 02 09:50	10°  ♍31'07	1°44'49	minimum elong	2790 Aug 17 05:41	24°  Ω41'41	1°43'29
max. Earth dist.	2789 Sep 08 02:34	21°  ♍34'25	1.37123 AU		2790 Aug 19 19:49	0°  ♍	
evening rise	2789 Sep 11 21:48	28°  ♍34'48		max. Earth dist.	2790 Aug 21 12:47	3°  ♍25'46	1.35341 AU
	2789 Sep 12 16:47	0°  ♌		evening rise	2790 Aug 25 18:24	11°  ♍39'12	
desc. node	2789 Sep 22 21:55	17°  ♌10'27			2790 Sep 05 03:34	0°  ♌	
	2789 Oct 01 10:53	0°  ♌		desc. node	2790 Sep 09 18:54	7°  ♌23'21	
evening max el	2789 Oct 17 16:35	19°  ♌59'55	25°35'11		2790 Sep 26 16:26	0°  ♌	
retrograde	2789 Oct 29 21:27	26°  ♌59'46		evening max el	2790 Sep 30 04:44	3°  ♌38'17	26°35'16
evening set	2789 Nov 04 21:05	24°  ♌29'57		retrograde	2790 Oct 13 02:52	10°  ♌52'15	
min. Earth dist.	2789 Nov 09 06:03	19°  ♌41'56	0.67041 AU	evening set	2790 Oct 19 15:50	8°  ♌12'07	
inferior conj	2789 Nov 10 11:13	18°  ♌08'38	-0°33'36	min. Earth dist.	2790 Oct 23 17:37	4°  ♌00'14	0.66101 AU
minimum elong	2789 Nov 10 12:05	18°  ♌05'51	0°33'13	inferior conj	2790 Oct 25 10:24	1°  ♌58'10	-1°32'21
asc. node	2789 Nov 12 02:17	16°  ♌06'16		minimum elong	2790 Oct 25 12:54	1°  ♌50'41	1°31'18
morning rise	2789 Nov 16 03:21	12°  ♌13'31			2790 Oct 27 02:49	30°  R♌	
direct	2789 Nov 19 11:16	11°  ♌09'38		asc. node	2790 Oct 29 23:19	27°  ♌12'56	
morning max el	2789 Nov 26 12:50	15°  ♌07'05	19°15'48	morning rise	2790 Oct 31 10:36	26°  ♌13'52	
	2789 Dec 07 19:26	0°  ♌		direct	2790 Nov 03 09:02	25°  ♌25'34	
greatest brilliancy	2789 Dec 10 23:59	4°  ♌49'02	-0.7m	morning max el	2790 Nov 10 00:24	29°  ♌03'39	18°30'32
desc. node	2789 Dec 19 21:14	18°  ♌31'39			2790 Nov 10 21:54	0°  ♌	
morning set	2789 Dec 20 01:36	18°  ♌48'38		morning set	2790 Nov 30 02:47	28°  ♌33'23	
	2789 Dec 27 06:01	0°  ♌			2790 Dec 01 00:26	0°  ♌	

desc. node	2790 Dec 06 18:13	9°♄08'37		superior conj	2791 Nov 25 06:08	2°♄28'10	-0°10'59
				minimum elong	2791 Nov 25 04:46	2°♄22'45	0°10'48
superior conj	2790 Dec 15 21:41	23°♄33'30	-0°59'08	behind sun begin	2791 Nov 24 20:48	1°♄50'52	
minimum elong	2790 Dec 15 14:22	23°♄04'43	0°58'13	behind sun end	2791 Nov 25 12:45	2°♄54'36	
max. Earth dist.	2790 Dec 16 13:23	24°♄35'06	1.45190 AU	max. Earth dist.	2791 Nov 29 08:07	8°♄57'12	1.44877 AU
	2790 Dec 20 00:13	0°♄		evening rise	2791 Dec 11 14:25	28°♄03'51	
evening rise	2790 Dec 31 21:15	18°♄42'46			2791 Dec 12 20:32	0°♄	
	2791 Jan 08 00:17	0°♄		greatest brilliancy	2791 Dec 25 12:56	19°♄17'16	-0.6m
greatest brilliancy	2791 Jan 10 06:22	3°♄32'27	-0.8m		2792 Jan 02 03:31	0°♄	
evening max el	2791 Jan 23 07:02	21°♄39'09	19°03'27	evening max el	2792 Jan 06 12:32	5°♄09'06	19°55'33
asc. node	2791 Jan 25 22:36	23°♄58'32		asc. node	2792 Jan 12 19:39	9°♄25'11	
retrograde	2791 Jan 30 04:48	25°♄34'21		retrograde	2792 Jan 14 02:24	9°♄34'13	
evening set	2791 Feb 02 12:40	24°♄30'02		evening set	2792 Jan 17 18:04	8°♄16'16	
inferior conj	2791 Feb 08 03:00	18°♄42'59	3°24'56	inferior conj	2792 Jan 23 04:35	2°♄15'09	2°58'59
minimum elong	2791 Feb 08 01:03	18°♄49'07	3°24'38	minimum elong	2792 Jan 23 02:05	2°♄23'29	2°58'23
min. Earth dist.	2791 Feb 09 15:49	16°♄46'35	0.65860 AU	min. Earth dist.	2792 Jan 24 03:16	0°♄59'26	0.66926 AU
morning rise	2791 Feb 13 13:07	12°♄30'44			2792 Jan 24 21:22	30°♄	
direct	2791 Feb 20 00:18	9°♄40'37		morning rise	2792 Jan 28 09:53	26°♄01'40	
desc. node	2791 Mar 04 17:26	17°♄07'04		direct	2792 Feb 03 08:32	23°♄22'26	
morning max el	2791 Mar 04 21:51	17°♄18'08	26°30'45		2792 Feb 14 18:51	0°♄	
	2791 Mar 15 12:41	0°♄		morning max el	2792 Feb 15 06:40	0°♄29'31	25°14'48
	2791 Apr 03 19:44	0°♄		desc. node	2792 Feb 19 14:28	5°♄14'31	
morning set	2791 Apr 09 22:41	11°♄08'16			2792 Mar 08 11:28	0°♄	
max. Earth dist.	2791 Apr 14 02:20	19°♄09'24	1.34763 AU	morning set	2792 Mar 22 11:54	23°♄27'29	
				max. Earth dist.	2792 Mar 26 04:01	0°♄11'44	1.36515 AU
					2792 Mar 26 01:30	0°♄	
superior conj	2791 Apr 18 17:12	28°♄29'06	-0°52'05				
minimum elong	2791 Apr 18 19:53	28°♄42'58	0°51'35				
	2791 Apr 19 10:49	0°♄		superior conj	2792 Apr 01 06:56	11°♄59'19	-1°19'32
asc. node	2791 Apr 23 21:53	9°♄18'27		minimum elong	2792 Apr 01 10:54	12°♄19'00	1°18'55
evening rise	2791 Apr 26 08:18	14°♄22'41		evening rise	2792 Apr 09 12:35	28°♄35'49	
	2791 May 04 09:02	0°♄		asc. node	2792 Apr 09 18:56	29°♄07'47	
evening max el	2791 May 15 09:06	15°♄16'59	20°52'54		2792 Apr 10 05:19	0°♄	
retrograde	2791 May 26 22:00	20°♄54'44		evening max el	2792 Apr 26 20:43	26°♄45'02	19°41'44
evening set	2791 May 29 01:16	20°♄43'53			2792 May 01 03:20	0°♄	
desc. node	2791 May 31 16:37	20°♄02'48		retrograde	2792 May 06 15:40	1°♄29'23	
inferior conj	2791 Jun 07 09:00	16°♄46'11	-1°56'29	evening set	2792 May 08 15:42	1°♄18'24	
minimum elong	2791 Jun 07 03:33	16°♄53'55	1°54'33		2792 May 12 13:57	30°♄	
min. Earth dist.	2791 Jun 08 04:16	16°♄18'47	0.54902 AU	inferior conj	2792 May 17 09:48	27°♄15'51	0°02'49
morning rise	2791 Jun 16 05:33	12°♄42'17		minimum elong	2792 May 17 09:55	27°♄15'39	0°02'46
direct	2791 Jun 19 18:03	12°♄15'34		transit middle	2792 May 17 09:55	27°♄15'39	0°02'46
morning max el	2791 Jul 02 19:08	18°♄30'46	22°51'32	transit begin	2792 May 17 06:02	27°♄21'43	
	2791 Jul 12 04:09	0°♄		transit end	2792 May 17 13:48	27°♄09'35	
asc. node	2791 Jul 20 21:08	15°♄09'24		desc. node	2792 May 17 13:39	27°♄09'48	
morning set	2791 Jul 25 08:34	24°♄15'45		min. Earth dist.	2792 May 19 18:09	25°♄48'03	0.55629 AU
	2791 Jul 28 01:26	0°♄		morning rise	2792 May 26 01:39	22°♄42'30	
				direct	2792 May 30 10:53	21°♄59'39	
superior conj	2791 Aug 01 11:01	9°♄25'48	1°35'44	morning max el	2792 Jun 13 09:49	28°♄58'46	24°33'58
minimum elong	2791 Aug 01 09:08	9°♄15'41	1°35'35		2792 Jun 14 10:49	0°♄	
max. Earth dist.	2791 Aug 04 07:52	15°♄29'09	1.33931 AU		2792 Jul 04 08:33	0°♄	
evening rise	2791 Aug 09 05:14	25°♄25'23		asc. node	2792 Jul 06 18:10	4°♄49'35	
	2791 Aug 11 13:51	0°♄		morning set	2792 Jul 08 20:24	9°♄11'15	
desc. node	2791 Aug 27 15:56	27°♄12'53					
	2791 Aug 29 13:56	0°♄		superior conj	2792 Jul 15 19:52	24°♄16'59	1°22'39
evening max el	2791 Sep 12 16:53	17°♄06'17	27°14'23	minimum elong	2792 Jul 15 17:31	24°♄04'14	1°22'20
retrograde	2791 Sep 26 02:49	24°♄24'48		max. Earth dist.	2792 Jul 17 11:38	27°♄52'32	1.32930 AU
evening set	2791 Oct 03 02:13	21°♄42'01			2792 Jul 18 11:21	0°♄	
min. Earth dist.	2791 Oct 06 21:38	18°♄05'38	0.64812 AU	evening rise	2792 Jul 23 02:20	9°♄40'55	
inferior conj	2791 Oct 09 02:42	15°♄39'57	-2°31'55		2792 Aug 02 22:07	0°♄	
minimum elong	2791 Oct 09 06:50	15°♄28'35	2°30'23	desc. node	2792 Aug 13 12:58	16°♄28'23	
morning rise	2791 Oct 15 12:27	10°♄09'24			2792 Aug 24 22:42	0°♄	
asc. node	2791 Oct 16 20:21	9°♄41'53		evening max el	2792 Aug 25 03:25	0°♄11'15	27°26'00
direct	2791 Oct 18 03:50	9°♄32'46		retrograde	2792 Sep 07 20:24	7°♄27'58	
morning max el	2791 Oct 24 15:48	13°♄00'44	18°01'57	evening set	2792 Sep 15 01:05	4°♄53'13	
	2791 Nov 05 12:55	0°♄		min. Earth dist.	2792 Sep 18 16:09	1°♄48'31	0.63178 AU
morning set	2791 Nov 11 09:18	9°♄45'06			2792 Sep 20 12:19	30°♄	
desc. node	2791 Nov 23 15:14	29°♄52'19		inferior conj	2792 Sep 21 09:25	29°♄07'24	-3°29'20
	2791 Nov 23 17:09	0°♄		minimum elong	2792 Sep 21 14:46	28°♄54'10	3°27'43

morning rise	2792 Sep 28 05:49	23° \mathbb{M} 53'56		asc. node	2793 Sep 19 14:27	9° \mathbb{M} 16'33	
direct	2792 Sep 30 16:49	23° \mathbb{M} 25'22		morning max el	2793 Sep 20 22:21	10° \mathbb{M} 27'42	17°58'45
asc. node	2792 Oct 02 17:24	23° \mathbb{M} 45'10			2793 Oct 03 19:19	0° \mathbb{L}	
morning max el	2792 Oct 07 08:09	26° \mathbb{M} 51'16	17°51'03	morning set	2793 Oct 06 18:12	5° \mathbb{L} 24'34	
	2792 Oct 10 02:00	0° \mathbb{L}					
morning set	2792 Oct 23 16:37	22° \mathbb{L} 08'50		superior conj	2793 Oct 16 23:51	23° \mathbb{L} 54'52	1°07'43
	2792 Oct 28 04:34	0° \mathbb{M}		minimum elong	2793 Oct 17 04:15	24° \mathbb{L} 14'08	1°07'11
					2793 Oct 20 12:17	0° \mathbb{M}	
superior conj	2792 Nov 04 13:31	12° \mathbb{M} 31'59	0°33'31	max. Earth dist.	2793 Oct 24 13:28	6° \mathbb{M} 48'28	1.42288 AU
minimum elong	2792 Nov 04 16:46	12° \mathbb{M} 45'30	0°33'05	desc. node	2793 Oct 27 09:19	11° \mathbb{M} 26'31	
desc. node	2792 Nov 09 12:17	20° \mathbb{M} 39'33		evening rise	2793 Oct 30 16:17	16° \mathbb{M} 43'18	
max. Earth dist.	2792 Nov 11 00:55	23° \mathbb{M} 07'17	1.43869 AU		2793 Nov 08 06:36	0° \mathbb{X}	
	2792 Nov 15 08:44	0° \mathbb{X}			2793 Nov 30 05:25	0° \mathbb{Z}	
evening rise	2792 Nov 19 23:16	7° \mathbb{X} 10'40		evening max el	2793 Dec 02 07:27	2° \mathbb{Z} 13'35	22°16'09
	2792 Dec 05 04:25	0° \mathbb{Z}		retrograde	2793 Dec 11 20:25	7° \mathbb{Z} 54'02	
evening max el	2792 Dec 19 12:43	18° \mathbb{Z} 40'47	21°01'01	evening set	2793 Dec 16 09:02	6° \mathbb{Z} 04'40	
retrograde	2792 Dec 28 00:10	23° \mathbb{Z} 42'03		asc. node	2793 Dec 16 13:43	5° \mathbb{Z} 54'54	
asc. node	2792 Dec 29 16:40	23° \mathbb{Z} 26'18		inferior conj	2793 Dec 21 17:30	29° \mathbb{X} 44'29	1°41'19
evening set	2793 Jan 01 01:25	22° \mathbb{Z} 08'59		minimum elong	2793 Dec 21 15:26	29° \mathbb{X} 51'40	1°40'33
inferior conj	2793 Jan 06 10:07	15° \mathbb{Z} 56'43	2°23'52	min. Earth dist.	2793 Dec 21 16:01	29° \mathbb{X} 49'39	0.67888 AU
minimum elong	2793 Jan 06 07:36	16° \mathbb{Z} 05'24	2°23'05		2793 Dec 21 13:02	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	2793 Jan 06 20:07	15° \mathbb{Z} 22'19	0.67595 AU	morning rise	2793 Dec 26 21:42	23° \mathbb{X} 33'51	
morning rise	2793 Jan 11 13:34	9° \mathbb{Z} 43'49		direct	2793 Dec 31 14:46	21° \mathbb{X} 35'52	
direct	2793 Jan 16 21:38	7° \mathbb{Z} 23'18		morning max el	2794 Jan 10 02:08	27° \mathbb{X} 10'43	22°19'41
morning max el	2793 Jan 27 15:05	13° \mathbb{Z} 46'48	23°47'51		2794 Jan 12 17:06	0° \mathbb{Z}	
desc. node	2793 Feb 05 11:31	24° \mathbb{Z} 12'33		desc. node	2794 Jan 23 08:33	13° \mathbb{Z} 46'23	
	2793 Feb 09 18:30	0° \approx			2794 Feb 03 09:36	0° \approx	
	2793 Mar 01 08:53	0° \mathbb{H}		morning set	2794 Feb 12 13:35	14° \approx 26'25	
morning set	2793 Mar 04 02:46	4° \mathbb{H} 38'08		max. Earth dist.	2794 Feb 17 20:21	23° \approx 11'19	1.40759 AU
max. Earth dist.	2793 Mar 07 23:21	11° \mathbb{H} 20'52	1.38595 AU		2794 Feb 21 19:42	0° \mathbb{H}	
superior conj	2793 Mar 15 07:53	24° \mathbb{H} 48'33	-1°43'32	superior conj	2794 Feb 25 15:19	6° \mathbb{H} 44'30	-2°00'34
minimum elong	2793 Mar 15 12:20	25° \mathbb{H} 09'36	1°43'03	minimum elong	2794 Feb 25 18:31	6° \mathbb{H} 58'51	2°00'24
	2793 Mar 18 01:12	0° \mathbb{Y}		evening rise	2794 Mar 07 20:14	25° \mathbb{H} 34'23	
evening rise	2793 Mar 24 09:40	12° \mathbb{Y} 22'35			2794 Mar 10 05:03	0° \mathbb{Y}	
asc. node	2793 Mar 27 16:00	18° \mathbb{Y} 41'10		asc. node	2794 Mar 14 13:02	7° \mathbb{Y} 52'14	
	2793 Apr 03 00:38	0° \mathbb{B}		evening max el	2794 Mar 24 01:34	21° \mathbb{Y} 30'17	18°18'48
evening max el	2793 Apr 09 19:13	8° \mathbb{B} 52'01	18°50'11	retrograde	2794 Mar 31 06:10	25° \mathbb{Y} 05'06	
retrograde	2793 Apr 18 01:20	12° \mathbb{B} 53'30		evening set	2794 Apr 02 17:14	24° \mathbb{Y} 40'57	
evening set	2793 Apr 20 06:13	12° \mathbb{B} 37'25		inferior conj	2794 Apr 09 21:04	20° \mathbb{Y} 01'20	2°51'27
inferior conj	2793 Apr 28 04:44	8° \mathbb{B} 18'17	1°43'24	minimum elong	2794 Apr 10 00:41	19° \mathbb{Y} 53'39	2°50'40
minimum elong	2793 Apr 28 08:14	8° \mathbb{B} 11'57	1°42'18	min. Earth dist.	2794 Apr 13 07:24	17° \mathbb{Y} 07'49	0.59179 AU
min. Earth dist.	2793 May 01 10:28	5° \mathbb{B} 58'22	0.57161 AU	morning rise	2794 Apr 17 05:29	14° \mathbb{Y} 24'51	
desc. node	2793 May 04 10:41	4° \mathbb{B} 04'58		desc. node	2794 Apr 21 07:44	12° \mathbb{Y} 51'16	
morning rise	2793 May 06 07:07	3° \mathbb{B} 10'26		direct	2794 Apr 23 12:19	12° \mathbb{Y} 38'19	
direct	2793 May 11 17:01	1° \mathbb{B} 59'34		morning max el	2794 May 07 21:12	20° \mathbb{Y} 24'43	27°14'50
morning max el	2793 May 26 00:54	9° \mathbb{B} 28'01	26°06'45		2794 May 16 03:03	0° \mathbb{B}	
	2793 Jun 10 13:56	0° \mathbb{I}			2794 Jun 03 08:10	0° \mathbb{I}	
morning set	2793 Jun 23 07:36	24° \mathbb{I} 03'59		morning set	2794 Jun 07 16:31	8° \mathbb{I} 48'17	
asc. node	2793 Jun 23 15:14	24° \mathbb{I} 44'20		asc. node	2794 Jun 10 12:18	14° \mathbb{I} 48'18	
	2793 Jun 26 02:05	0° \mathbb{E}					
				superior conj	2794 Jun 14 18:52	24° \mathbb{I} 08'44	0°43'44
superior conj	2793 Jun 30 07:05	9° \mathbb{E} 13'22	1°05'04	minimum elong	2794 Jun 14 17:04	23° \mathbb{I} 58'53	0°43'23
minimum elong	2793 Jun 30 04:47	9° \mathbb{E} 00'45	1°04'41	max. Earth dist.	2794 Jun 14 09:36	23° \mathbb{I} 17'47	1.32114 AU
max. Earth dist.	2793 Jun 30 21:27	10° \mathbb{E} 32'23	1.32331 AU		2794 Jun 17 10:41	0° \mathbb{E}	
evening rise	2793 Jul 07 06:31	24° \mathbb{E} 16'14		evening rise	2794 Jun 21 15:16	9° \mathbb{E} 03'02	
	2793 Jul 10 01:46	0° \mathbb{Q}			2794 Jul 02 11:10	0° \mathbb{Q}	
	2793 Jul 27 16:40	0° \mathbb{P}		desc. node	2794 Jul 18 07:00	22° \mathbb{Q} 15'30	
desc. node	2793 Jul 31 09:59	4° \mathbb{P} 55'48		evening max el	2794 Jul 20 09:05	24° \mathbb{Q} 21'22	26°11'46
evening max el	2793 Aug 07 09:41	12° \mathbb{P} 39'33	27°05'17		2794 Jul 28 03:33	0° \mathbb{P}	
retrograde	2793 Aug 21 06:42	19° \mathbb{P} 52'33		retrograde	2794 Aug 03 08:37	1° \mathbb{P} 31'36	
evening set	2793 Aug 28 08:21	17° \mathbb{P} 38'23			2794 Aug 09 11:19	30° \mathbb{R} \mathbb{Q}	
min. Earth dist.	2793 Aug 31 23:57	14° \mathbb{P} 56'06	0.61262 AU	evening set	2794 Aug 09 19:18	29° \mathbb{Q} 50'02	
inferior conj	2793 Sep 04 03:20	12° \mathbb{P} 12'04	-4°19'40	min. Earth dist.	2794 Aug 13 21:48	27° \mathbb{Q} 14'26	0.59196 AU
minimum elong	2793 Sep 04 08:44	12° \mathbb{P} 00'15	4°18'31	inferior conj	2794 Aug 17 04:53	24° \mathbb{Q} 44'47	-4°54'38
morning rise	2793 Sep 11 10:50	7° \mathbb{P} 19'11		minimum elong	2794 Aug 17 08:10	24° \mathbb{Q} 38'33	4°54'18
direct	2793 Sep 13 20:21	6° \mathbb{P} 55'41		morning rise	2794 Aug 24 23:11	20° \mathbb{Q} 14'54	

direct	2794 Aug 27 09:57	19° Ω 54'21		direct	2795 Aug 09 05:20	2° Ω 08'17	
morning max el	2794 Sep 04 07:19	23° Ω 42'01	18°26'18	morning max el	2795 Aug 18 07:45	6° Ω 23'43	19°14'57
asc. node	2794 Sep 06 11:31	26° Ω 02'23		asc. node	2795 Aug 24 08:33	13° Ω 46'41	
	2794 Sep 09 10:41	0° Π			2795 Sep 02 12:28	0° Π	
morning set	2794 Sep 20 08:45	19° Π 17'37		morning set	2795 Sep 04 08:17	3° Π 36'28	
	2794 Sep 25 22:54	0° Ω					
superior conj	2794 Sep 29 09:26	6° Ω 26'31	1°30'13	superior conj	2795 Sep 12 12:36	19° Π 49'58	1°42'06
minimum elong	2794 Sep 29 12:47	6° Ω 41'58	1°29'54	minimum elong	2795 Sep 12 14:09	19° Π 57'32	1°42'01
max. Earth dist.	2794 Oct 06 20:31	19° Ω 47'20	1.40336 AU		2795 Sep 17 21:21	0° Ω	
evening rise	2794 Oct 11 05:45	27° Ω 12'50		max. Earth dist.	2795 Sep 19 00:15	2° Ω 03'13	1.38266 AU
	2794 Oct 12 22:20	0° Π		evening rise	2795 Sep 22 18:59	8° Ω 48'15	
desc. node	2794 Oct 14 06:20	2° Π 10'00		desc. node	2795 Oct 01 03:20	22° Ω 45'30	
	2794 Nov 01 21:58	0° \mathcal{A}			2795 Oct 05 18:49	0° Π	
evening max el	2794 Nov 14 21:55	15° \mathcal{A} 49'00	23°35'54	evening max el	2795 Oct 28 10:18	29° Π 27'55	24°53'55
retrograde	2794 Nov 25 13:47	22° \mathcal{A} 06'56			2795 Oct 28 23:30	0° \mathcal{A}	
evening set	2794 Nov 30 15:18	20° \mathcal{A} 00'52		retrograde	2795 Nov 09 03:10	6° \mathcal{A} 15'54	
asc. node	2794 Dec 03 10:44	17° \mathcal{A} 02'51		evening set	2795 Nov 14 18:33	3° \mathcal{A} 54'10	
min. Earth dist.	2794 Dec 05 12:43	14° \mathcal{A} 18'29	0.67827 AU		2795 Nov 18 08:49	30° $\mathcal{R}\Pi$	
inferior conj	2794 Dec 06 00:57	13° \mathcal{A} 36'40	0°52'40	min. Earth dist.	2795 Nov 19 07:50	28° Π 45'39	0.67425 AU
minimum elong	2794 Dec 05 23:45	13° \mathcal{A} 40'48	0°52'10	inferior conj	2795 Nov 20 06:40	27° Π 30'16	-0°00'57
morning rise	2794 Dec 11 08:10	7° \mathcal{A} 30'06		minimum elong	2795 Nov 20 06:42	27° Π 30'12	0°00'56
direct	2794 Dec 15 11:00	5° \mathcal{A} 54'57		transit middle	2795 Nov 20 06:42	27° Π 30'12	0°00'56
morning max el	2794 Dec 23 19:14	10° \mathcal{A} 44'50	20°58'16	transit begin	2795 Nov 20 03:56	27° Π 39'19	
	2795 Jan 07 15:45	0° \mathcal{B}		transit end	2795 Nov 20 09:27	27° Π 21'06	
desc. node	2795 Jan 10 05:36	3° \mathcal{B} 46'15		asc. node	2795 Nov 20 07:46	27° Π 26'38	
morning set	2795 Jan 22 21:10	23° \mathcal{B} 00'22		morning rise	2795 Nov 25 18:59	21° Π 30'03	
	2795 Jan 27 07:23	0° \approx		direct	2795 Nov 29 09:12	20° Π 15'42	
max. Earth dist.	2795 Jan 30 23:45	5° \approx 56'18	1.42711 AU	morning max el	2795 Dec 06 20:02	24° Π 29'30	19°48'53
					2795 Dec 11 13:41	0° \mathcal{A}	
superior conj	2795 Feb 07 00:09	17° \approx 36'05	-2°05'56	desc. node	2795 Dec 28 02:38	24° \mathcal{A} 04'37	
minimum elong	2795 Feb 06 23:26	17° \approx 33'01	2°05'56		2795 Dec 31 23:12	0° \mathcal{B}	
	2795 Feb 14 03:52	0° \mathcal{H}		morning set	2796 Jan 01 17:08	1° \mathcal{B} 09'09	
evening rise	2795 Feb 18 16:25	8° \mathcal{H} 03'13		max. Earth dist.	2796 Jan 13 10:25	19° \mathcal{B} 30'00	1.44195 AU
asc. node	2795 Mar 01 10:03	26° \mathcal{H} 34'13					
	2795 Mar 03 17:56	0° Υ		superior conj	2796 Jan 18 06:56	27° \mathcal{B} 17'20	-1°54'35
evening max el	2795 Mar 07 12:36	4° Υ 31'57	18°07'12	minimum elong	2796 Jan 18 00:31	26° \mathcal{B} 51'25	1°54'11
retrograde	2795 Mar 14 03:13	7° Υ 55'45			2796 Jan 19 22:59	0° \approx	
evening set	2795 Mar 16 19:58	7° Υ 21'43		evening rise	2796 Jan 31 17:51	19° \approx 40'27	
inferior conj	2795 Mar 23 08:43	2° Υ 21'34	3°28'21		2796 Feb 06 19:37	0° \mathcal{H}	
minimum elong	2795 Mar 23 10:43	2° Υ 16'39	3°28'08	asc. node	2796 Feb 16 07:04	14° \mathcal{H} 38'11	
	2795 Mar 25 18:24	30° $\mathcal{R}\mathcal{H}$		evening max el	2796 Feb 19 01:17	17° \mathcal{H} 49'13	18°14'48
min. Earth dist.	2795 Mar 26 11:40	29° \mathcal{H} 19'06	0.61343 AU	retrograde	2796 Feb 25 11:58	21° \mathcal{H} 15'47	
morning rise	2795 Mar 29 23:43	26° \mathcal{H} 26'41		evening set	2796 Feb 28 10:12	20° \mathcal{H} 30'42	
direct	2795 Apr 05 18:59	24° \mathcal{H} 06'19		inferior conj	2796 Mar 05 11:41	15° \mathcal{H} 11'04	3°40'41
desc. node	2795 Apr 08 04:46	24° \mathcal{H} 22'45		minimum elong	2796 Mar 05 11:49	15° \mathcal{H} 10'43	3°40'40
	2795 Apr 17 19:49	0° Υ		min. Earth dist.	2796 Mar 08 00:57	12° \mathcal{H} 22'46	0.63368 AU
morning max el	2795 Apr 19 23:52	2° Υ 02'16	27°47'58	morning rise	2796 Mar 11 12:29	9° \mathcal{H} 06'05	
	2795 May 10 10:38	0° \mathcal{B}		direct	2796 Mar 18 10:39	6° \mathcal{H} 22'50	
morning set	2795 May 22 21:12	23° \mathcal{B} 17'20		desc. node	2796 Mar 25 01:49	8° \mathcal{H} 28'01	
	2795 May 26 02:11	0° Π		morning max el	2796 Apr 01 07:16	14° \mathcal{H} 19'44	27°43'34
asc. node	2795 May 28 09:20	4° Π 56'27			2796 Apr 14 00:02	0° Υ	
max. Earth dist.	2795 May 28 20:04	5° Π 54'43	1.32296 AU		2796 May 02 00:19	0° \mathcal{B}	
				morning set	2796 May 05 19:24	7° \mathcal{B} 24'03	
superior conj	2795 May 30 05:29	8° Π 56'59	0°19'18	max. Earth dist.	2796 May 11 01:00	18° \mathcal{B} 11'07	1.32903 AU
minimum elong	2795 May 30 04:36	8° Π 52'11	0°19'06				
evening rise	2795 Jun 06 02:28	23° Π 53'49		superior conj	2796 May 13 13:13	23° \mathcal{B} 32'36	-0°07'31
	2795 Jun 09 00:44	0° \mathcal{E}		minimum elong	2796 May 13 13:35	23° \mathcal{B} 34'35	0°07'27
	2795 Jun 27 05:11	0° Ω		behind sun begin	2796 May 13 08:53	23° \mathcal{B} 09'15	
evening max el	2795 Jul 02 01:21	5° Ω 17'08	24°51'07	behind sun end	2796 May 13 18:18	23° \mathcal{B} 59'56	
desc. node	2795 Jul 05 04:01	7° Ω 59'17		asc. node	2796 May 14 06:22	25° \mathcal{B} 04'57	
retrograde	2795 Jul 16 00:17	12° Ω 21'31			2796 May 16 12:55	0° Π	
evening set	2795 Jul 21 06:21	11° Ω 18'48		evening rise	2796 May 20 14:17	8° Π 42'40	
min. Earth dist.	2795 Jul 26 12:45	8° Ω 30'58	0.57226 AU		2796 May 31 16:49	0° \mathcal{E}	
inferior conj	2795 Jul 29 10:55	6° Ω 35'26	-5°01'40	evening max el	2796 Jun 12 14:49	15° \mathcal{E} 46'24	23°15'57
minimum elong	2795 Jul 29 09:20	6° Ω 38'03	5°01'36	desc. node	2796 Jun 21 01:01	21° \mathcal{E} 32'30	
morning rise	2795 Aug 06 14:58	2° Ω 27'28		retrograde	2796 Jun 26 03:19	22° \mathcal{E} 31'32	
				evening set	2796 Jun 29 21:07	22° \mathcal{E} 00'54	

min. Earth dist.	2796 Jul 07 00:32	18°♄46'10	0.55696 AU		2797 Jun 15 07:42	30°♄II	
inferior conj	2796 Jul 08 21:05	17°♄40'45	-4°26'01	inferior conj	2797 Jun 18 17:05	28°II09'54	-3°01'33
minimum elong	2796 Jul 08 14:11	17°♄50'54	4°24'44	minimum elong	2797 Jun 18 09:22	28°II20'41	2°59'09
morning rise	2796 Jul 17 09:43	13°♄47'07		min. Earth dist.	2797 Jun 18 11:47	28°II17'19	0.54927 AU
direct	2796 Jul 20 05:43	13°♄27'40		morning rise	2797 Jun 27 12:18	24°II15'48	
morning max el	2796 Jul 30 21:07	18°♄23'44	20°25'02	direct	2797 Jun 30 17:13	23°II53'17	
	2796 Aug 08 21:01	0°♂		morning max el	2797 Jul 12 22:54	29°II38'43	21°54'18
asc. node	2796 Aug 10 05:36	2°♂16'05			2797 Jul 13 07:56	0°♄	
morning set	2796 Aug 18 13:55	18°♂13'14		asc. node	2797 Jul 28 02:39	21°♄19'34	
	2796 Aug 24 07:08	0°♄			2797 Aug 01 12:14	0°♂	
				morning set	2797 Aug 02 23:24	3°♂01'44	
superior conj	2796 Aug 26 04:25	3°♄51'01	1°45'07				
minimum elong	2796 Aug 26 04:17	3°♄50'20	1°45'08	superior conj	2797 Aug 10 05:05	18°♂18'26	1°40'55
max. Earth dist.	2796 Aug 31 06:35	13°♄56'11	1.36328 AU	minimum elong	2797 Aug 10 03:40	18°♂11'04	1°40'51
evening rise	2796 Sep 04 05:27	21°♄23'28		max. Earth dist.	2797 Aug 13 20:37	25°♂51'20	1.34693 AU
	2796 Sep 09 01:05	0°♄			2797 Aug 15 22:04	0°♄	
desc. node	2796 Sep 17 00:20	13°♄08'12		evening rise	2797 Aug 18 08:37	4°♄46'39	
	2796 Sep 28 15:52	0°♄			2797 Sep 01 19:32	0°♄	
evening max el	2796 Oct 09 22:31	13°♄08'54	26°02'50	desc. node	2797 Sep 03 21:21	3°♄12'05	
retrograde	2796 Oct 22 11:38	20°♄15'59		evening max el	2797 Sep 22 11:03	26°♄45'00	26°54'59
evening set	2796 Oct 28 16:59	17°♄41'24			2797 Sep 26 04:50	0°♄	
min. Earth dist.	2796 Nov 01 22:56	13°♄08'20	0.66686 AU	retrograde	2797 Oct 05 14:38	4°♄01'03	
inferior conj	2796 Nov 03 08:51	11°♄22'32	-0°58'14	evening set	2797 Oct 12 08:31	1°♄18'57	
minimum elong	2796 Nov 03 10:23	11°♄17'43	0°57'35		2797 Oct 13 20:06	30°♄♄	
asc. node	2796 Nov 06 04:49	8°♄02'11		min. Earth dist.	2797 Oct 16 07:36	27°♄22'18	0.65597 AU
morning rise	2796 Nov 09 04:11	5°♄31'20		inferior conj	2797 Oct 18 05:27	25°♄09'45	-1°57'36
direct	2796 Nov 12 07:47	4°♄34'29		minimum elong	2797 Oct 18 08:39	25°♄00'28	1°56'20
morning max el	2796 Nov 19 04:09	8°♄22'38	18°54'24	morning rise	2797 Oct 24 09:31	19°♄30'45	
	2796 Dec 04 15:59	0°♄		asc. node	2797 Oct 24 01:52	19°♄40'58	
morning set	2796 Dec 11 02:49	10°♄06'00		direct	2797 Oct 27 04:45	18°♄47'42	
desc. node	2796 Dec 13 23:38	14°♄35'53		morning max el	2797 Nov 02 17:41	22°♄20'10	18°16'18
	2796 Dec 23 19:24	0°♄			2797 Nov 08 19:12	0°♄	
max. Earth dist.	2796 Dec 26 02:59	3°♄38'16	1.45042 AU	morning set	2797 Nov 21 16:52	20°♄29'51	
					2797 Nov 27 13:41	0°♄	
superior conj	2796 Dec 27 15:20	6°♄01'16	-1°23'57	desc. node	2797 Nov 30 20:39	5°♄16'21	
minimum elong	2796 Dec 27 06:21	5°♄25'54	1°23'01				
evening rise	2797 Jan 11 20:43	0°♄19'57		superior conj	2797 Dec 06 17:33	14°♄34'57	-0°38'58
	2797 Jan 11 15:47	0°♄		minimum elong	2797 Dec 06 12:33	14°♄15'16	0°38'18
	2797 Jan 31 09:12	0°♄		max. Earth dist.	2797 Dec 08 22:28	18°♄03'13	1.45155 AU
evening max el	2797 Feb 01 12:53	1°♄14'36	18°40'44		2797 Dec 16 13:34	0°♄	
asc. node	2797 Feb 02 04:07	1°♄52'03		evening rise	2797 Dec 23 00:49	10°♄06'11	
retrograde	2797 Feb 08 04:15	4°♄55'57		greatest brilliancy	2798 Jan 03 13:04	27°♄58'30	-0.7m
evening set	2797 Feb 11 08:24	3°♄58'50			2798 Jan 04 21:06	0°♄	
	2797 Feb 15 16:47	30°♄♄		evening max el	2798 Jan 15 21:08	14°♄43'59	19°23'42
inferior conj	2797 Feb 17 01:59	28°♄21'14	3°34'44	asc. node	2798 Jan 20 01:09	18°♄02'33	
minimum elong	2797 Feb 17 00:38	28°♄25'20	3°34'36	retrograde	2798 Jan 23 00:46	18°♄50'36	
min. Earth dist.	2797 Feb 18 23:35	26°♄03'22	0.65070 AU	evening set	2798 Jan 26 11:52	17°♄40'26	
morning rise	2797 Feb 22 16:25	22°♄10'59		inferior conj	2798 Feb 01 00:18	11°♄46'57	3°15'09
direct	2797 Mar 01 09:24	19°♄19'32		minimum elong	2798 Jan 31 22:04	11°♄54'14	3°14'43
desc. node	2797 Mar 11 22:51	24°♄31'42		min. Earth dist.	2798 Feb 02 06:51	10°♄07'53	0.66373 AU
morning max el	2797 Mar 14 16:50	27°♄06'59	27°05'16	morning rise	2798 Feb 06 08:01	5°♄34'09	
	2797 Mar 17 09:57	0°♄		direct	2798 Feb 12 14:15	2°♄47'44	
	2797 Apr 07 15:41	0°♄		morning max el	2798 Feb 25 02:25	10°♄13'10	26°00'23
morning set	2797 Apr 19 08:07	20°♄58'25		desc. node	2798 Feb 26 19:53	12°♄01'36	
	2797 Apr 23 21:21	0°♄			2798 Mar 12 18:46	0°♄	
max. Earth dist.	2797 Apr 23 20:42	29°♄56'41	1.33958 AU		2798 Mar 31 05:15	0°♄	
				morning set	2798 Apr 02 07:22	3°♄49'07	
superior conj	2797 Apr 27 16:00	7°♄48'31	-0°35'44	max. Earth dist.	2798 Apr 06 05:06	11°♄12'13	1.35470 AU
minimum elong	2797 Apr 27 17:50	7°♄58'07	0°35'21				
asc. node	2797 May 01 03:24	15°♄09'15		superior conj	2798 Apr 11 11:22	21°♄37'40	-1°03'59
evening rise	2797 May 05 00:48	23°♄22'43		minimum elong	2798 Apr 11 14:39	21°♄54'21	1°03'24
	2797 May 08 06:15	0°♄			2798 Apr 15 13:21	0°♄	
evening max el	2797 May 25 08:51	26°♄19'46	21°41'41	asc. node	2798 Apr 18 00:27	5°♄05'19	
	2797 May 29 22:59	0°♄		evening rise	2798 Apr 19 08:03	7°♄47'49	
retrograde	2797 Jun 06 18:49	2°♄26'08			2798 May 01 12:32	0°♄	
desc. node	2797 Jun 07 22:03	2°♄23'11		evening max el	2798 May 07 13:22	7°♄23'45	20°20'10
evening set	2797 Jun 09 07:32	2°♄11'43		retrograde	2798 May 18 08:17	12°♄38'29	

evening set	2798 May 20 08:45	12° Π 28'14		retrograde	2799 Apr 29 08:16	23° \mathcal{B} 33'37	
desc. node	2798 May 25 19:06	10° Π 33'29		evening set	2799 May 01 09:40	23° \mathcal{B} 21'03	
inferior conj	2798 May 29 11:55	8° Π 29'57	-1°05'12	inferior conj	2799 May 09 19:39	19° \mathcal{B} 12'12	0°49'05
minimum elong	2798 May 29 08:50	8° Π 34'27	1°04'04	minimum elong	2799 May 09 21:38	19° \mathcal{B} 08'54	0°48'23
min. Earth dist.	2798 May 31 00:16	7° Π 36'43	0.55102 AU	min. Earth dist.	2799 May 12 15:10	17° \mathcal{B} 20'32	0.56193 AU
morning rise	2798 Jun 07 07:42	4° Π 15'26		desc. node	2799 May 12 16:08	17° \mathcal{B} 19'00	
direct	2798 Jun 11 04:06	3° Π 43'25		morning rise	2799 May 18 06:37	14° \mathcal{B} 23'41	
morning max el	2798 Jun 24 16:09	10° Π 18'04	23°35'28	direct	2799 May 23 02:01	13° \mathcal{B} 30'30	
	2798 Jul 09 05:29	0° \mathcal{E}		morning max el	2799 Jun 06 06:34	20° \mathcal{B} 44'18	25°15'42
asc. node	2798 Jul 14 23:41	10° \mathcal{E} 48'25			2799 Jun 14 06:05	0° Π	
morning set	2798 Jul 18 10:50	17° \mathcal{E} 56'08		asc. node	2799 Jul 01 20:45	0° \mathcal{E} 35'49	
	2798 Jul 24 01:41	0° \mathcal{N}			2799 Jul 01 13:51	0° \mathcal{E}	
				morning set	2799 Jul 02 22:37	2° \mathcal{E} 51'33	
superior conj	2798 Jul 25 11:36	3° \mathcal{N} 03'00	1°30'47	superior conj	2799 Jul 09 21:42	17° \mathcal{E} 57'38	1°15'42
minimum elong	2798 Jul 25 09:27	2° \mathcal{N} 51'26	1°30'33	minimum elong	2799 Jul 09 19:20	17° \mathcal{E} 44'36	1°15'20
max. Earth dist.	2798 Jul 27 19:44	8° \mathcal{N} 03'07	1.33449 AU	max. Earth dist.	2799 Jul 11 02:25	20° \mathcal{E} 34'23	1.32618 AU
evening rise	2798 Aug 02 00:11	18° \mathcal{N} 45'41			2799 Jul 15 11:57	0° \mathcal{N}	
	2798 Aug 07 20:38	0° \mathcal{N}		evening rise	2799 Jul 17 00:38	3° \mathcal{N} 10'47	
desc. node	2798 Aug 21 18:24	22° \mathcal{N} 48'22			2799 Jul 31 15:28	0° \mathcal{N}	
	2798 Aug 27 00:44	0° \mathcal{E}		desc. node	2799 Aug 08 15:26	11° \mathcal{N} 45'40	
evening max el	2798 Sep 04 22:42	10° \mathcal{E} 04'08	27°23'06	evening max el	2799 Aug 18 07:29	22° \mathcal{N} 54'09	27°21'18
retrograde	2798 Sep 18 11:46	17° \mathcal{E} 22'07			2799 Aug 30 04:04	0° \mathcal{E}	
evening set	2798 Sep 25 14:26	14° \mathcal{E} 41'05		retrograde	2799 Sep 01 02:34	0° \mathcal{E} 10'10	
min. Earth dist.	2798 Sep 29 07:34	11° \mathcal{E} 19'18	0.64154 AU		2799 Sep 03 00:10	30° \mathcal{R} \mathcal{N}	
inferior conj	2798 Oct 01 18:00	8° \mathcal{E} 45'46	-2°56'47	evening set	2799 Sep 08 07:14	27° \mathcal{N} 42'11	
minimum elong	2798 Oct 01 22:44	8° \mathcal{E} 33'18	2°55'08	min. Earth dist.	2799 Sep 11 21:28	24° \mathcal{N} 48'47	0.62387 AU
morning rise	2798 Oct 08 08:12	3° \mathcal{E} 22'18		inferior conj	2799 Sep 14 19:39	22° \mathcal{N} 04'14	-3°52'00
direct	2798 Oct 10 21:28	2° \mathcal{E} 49'26		minimum elong	2799 Sep 15 01:14	21° \mathcal{N} 51'06	3°50'30
asc. node	2798 Oct 10 22:55	2° \mathcal{E} 49'27		morning rise	2799 Sep 21 20:49	16° \mathcal{N} 59'28	
morning max el	2798 Oct 17 09:53	6° \mathcal{E} 15'13	17°55'14	direct	2799 Sep 24 06:45	16° \mathcal{N} 33'29	
	2798 Nov 02 03:12	0° \mathcal{N}		asc. node	2799 Sep 27 19:57	17° \mathcal{N} 31'23	
morning set	2798 Nov 03 10:43	2° \mathcal{N} 14'31		morning max el	2799 Oct 01 01:45	20° \mathcal{N} 00'57	17°52'03
					2799 Oct 08 11:18	0° \mathcal{E}	
superior conj	2798 Nov 16 10:29	23° \mathcal{N} 55'40	0°08'52	morning set	2799 Oct 17 02:28	15° \mathcal{E} 01'48	
minimum elong	2798 Nov 16 11:29	23° \mathcal{N} 59'46	0°08'44		2799 Oct 25 13:41	0° \mathcal{N}	
behind sun begin	2798 Nov 16 02:54	23° \mathcal{N} 24'55		superior conj	2799 Oct 28 05:27	4° \mathcal{N} 33'30	0°49'27
behind sun end	2798 Nov 16 20:04	24° \mathcal{N} 34'33		minimum elong	2799 Oct 28 09:34	4° \mathcal{N} 50'59	0°48'54
desc. node	2798 Nov 17 17:41	26° \mathcal{N} 01'53		max. Earth dist.	2799 Nov 04 07:51	16° \mathcal{N} 21'23	1.43251 AU
	2798 Nov 20 05:01	0° \mathcal{N}		desc. node	2799 Nov 04 14:43	16° \mathcal{N} 49'18	
max. Earth dist.	2798 Nov 21 17:07	2° \mathcal{N} 23'48	1.44527 AU	evening rise	2799 Nov 11 22:50	28° \mathcal{N} 28'40	
evening rise	2798 Dec 02 12:37	19° \mathcal{N} 16'41			2799 Nov 12 22:20	0° \mathcal{N}	
	2798 Dec 09 13:12	0° \mathcal{E}		evening max el	2799 Dec 12 22:04	11° \mathcal{E} 45'51	21°32'02
evening max el	2798 Dec 30 00:24	28° \mathcal{E} 14'26	20°21'48	retrograde	2799 Dec 21 20:17	17° \mathcal{E} 04'18	
	2798 Dec 31 20:49	0° \approx		asc. node	2799 Dec 24 19:15	16° \mathcal{E} 16'20	
retrograde	2799 Jan 06 22:50	2° \approx 54'32		evening set	2799 Dec 26 02:03	15° \mathcal{E} 24'31	
asc. node	2799 Jan 06 22:12	2° \approx 54'31		inferior conj	2799 Dec 31 10:27	9° \mathcal{E} 08'16	2°06'39
evening set	2799 Jan 10 18:22	1° \approx 30'11		minimum elong	2799 Dec 31 08:04	9° \mathcal{E} 16'31	2°05'51
	2799 Jan 12 10:50	30° \mathcal{R} \mathcal{E}		min. Earth dist.	2799 Dec 31 15:27	8° \mathcal{E} 50'55	0.67761 AU
inferior conj	2799 Jan 16 03:53	25° \mathcal{E} 23'39	2°45'05	morning rise	2800 Jan 05 13:54	2° \mathcal{E} 55'51	
minimum elong	2799 Jan 16 01:19	25° \mathcal{E} 32'22	2°44'23	direct	2800 Jan 10 15:29	0° \mathcal{E} 44'39	
min. Earth dist.	2799 Jan 16 20:54	24° \mathcal{E} 25'53	0.67262 AU	morning max el	2800 Jan 20 20:16	6° \mathcal{E} 48'18	23°09'54
morning rise	2799 Jan 21 08:04	19° \mathcal{E} 10'08		desc. node	2800 Jan 31 13:57	19° \mathcal{E} 47'17	
direct	2799 Jan 27 00:30	16° \mathcal{E} 38'27			2800 Feb 07 19:55	0° \approx	
morning max el	2799 Feb 07 11:07	23° \mathcal{E} 28'21	24°38'32	morning set	2800 Feb 24 15:28	26° \approx 18'45	
	2799 Feb 13 06:19	0° \approx			2800 Feb 26 19:56	0° \mathcal{H}	
desc. node	2799 Feb 13 16:55	0° \approx 32'36		max. Earth dist.	2800 Feb 28 22:15	3° \mathcal{H} 36'04	1.39520 AU
	2799 Mar 06 04:05	0° \mathcal{H}		superior conj	2800 Mar 07 14:18	17° \mathcal{H} 19'43	-1°51'51
morning set	2799 Mar 15 11:55	15° \mathcal{H} 41'30		minimum elong	2800 Mar 07 18:31	17° \mathcal{H} 39'09	1°51'31
max. Earth dist.	2799 Mar 19 03:34	22° \mathcal{H} 14'30	1.37376 AU		2800 Mar 14 07:21	0° \mathcal{Y}	
	2799 Mar 23 07:28	0° \mathcal{Y}		evening rise	2800 Mar 17 02:44	5° \mathcal{Y} 23'58	
superior conj	2799 Mar 25 20:10	4° \mathcal{Y} 51'37	-1°30'19	asc. node	2800 Mar 21 18:34	14° \mathcal{Y} 13'22	
minimum elong	2799 Mar 26 00:30	5° \mathcal{Y} 12'39	1°29'44		2800 Mar 31 21:43	0° \mathcal{B}	
evening rise	2799 Apr 03 09:40	21° \mathcal{Y} 50'58		evening max el	2800 Apr 02 08:08	1° \mathcal{B} 30'35	18°34'23
asc. node	2799 Apr 04 21:31	24° \mathcal{Y} 48'39					
	2799 Apr 07 13:39	0° \mathcal{B}					
evening max el	2799 Apr 20 05:51	19° \mathcal{B} 08'48	19°17'15				



























































































































retrograde	2800 Apr 10 02:01	5°♄18'35			2801 Mar 06 18:28	0°♃	
evening set	2800 Apr 12 09:27	4°♄59'27		asc. node	2801 Mar 08 15:36	3°♃13'27	
inferior conj	2800 Apr 19 23:44	0°♄32'12	2°16'21	evening max el	2801 Mar 16 17:00	14°♃20'57	18°11'28
minimum elong	2800 Apr 20 03:37	0°♄24'40	2°15'17	retrograde	2801 Mar 23 14:06	17°♃48'48	
	2800 Apr 20 16:15	30°♄		evening set	2801 Mar 26 03:47	17°♃20'30	
min. Earth dist.	2800 Apr 23 09:28	27°♃54'50	0.57980 AU	inferior conj	2801 Apr 02 00:45	12°♃32'13	3°10'30
morning rise	2800 Apr 27 18:39	25°♃10'47		minimum elong	2801 Apr 02 03:47	12°♃25'20	3°09'58
desc. node	2800 Apr 28 13:10	24°♃49'47		min. Earth dist.	2801 Apr 05 09:10	9°♃31'51	0.60110 AU
direct	2800 May 03 14:22	23°♃44'50		morning rise	2801 Apr 09 01:32	6°♃47'02	
	2800 May 16 12:02	0°♄		desc. node	2801 Apr 15 10:11	4°♃45'13	
morning max el	2800 May 17 23:30	1°♄22'58	26°39'25	direct	2801 Apr 15 15:06	4°♃45'06	
	2800 Jun 07 08:09	0°♄		morning max el	2801 Apr 29 22:20	12°♃35'56	27°33'20
morning set	2800 Jun 16 09:01	17°♄41'16			2801 May 13 16:31	0°♄	
asc. node	2800 Jun 17 17:48	20°♄35'01			2801 May 30 13:14	0°♄	
	2800 Jun 22 01:42	0°♄		morning set	2801 May 31 16:22	2°♄19'43	
				asc. node	2801 Jun 04 14:51	10°♄41'17	
superior conj	2800 Jun 23 09:22	2°♄54'26	0°56'28	max. Earth dist.	2801 Jun 07 01:20	16°♄00'16	1.32151 AU
minimum elong	2800 Jun 23 07:14	2°♄42'42	0°56'03				
max. Earth dist.	2800 Jun 23 13:27	3°♄16'56	1.32188 AU	superior conj	2801 Jun 07 20:52	17°♄47'35	0°33'43
evening rise	2800 Jun 30 07:02	17°♄51'52		minimum elong	2801 Jun 07 19:26	17°♄39'37	0°33'25
	2800 Jul 06 08:07	0°♄			2801 Jun 13 10:51	0°♄	
desc. node	2800 Jul 25 12:27	29°♄47'02		evening rise	2801 Jun 14 17:05	2°♄41'24	
	2800 Jul 25 16:52	0°♄			2801 Jun 29 09:22	0°♄	
evening max el	2800 Jul 30 10:59	5°♄03'03	26°46'24	desc. node	2801 Jul 12 09:28	16°♄29'40	
retrograde	2800 Aug 13 09:44	12°♄15'22		evening max el	2801 Jul 12 07:24	16°♄24'45	25°40'07
evening set	2800 Aug 20 06:24	10°♄13'57		retrograde	2801 Jul 26 07:18	23°♄32'27	
min. Earth dist.	2800 Aug 24 01:01	7°♄36'27	0.60384 AU	evening set	2801 Aug 01 07:14	22°♄07'41	
inferior conj	2800 Aug 27 06:59	4°♄56'07	-4°37'05	min. Earth dist.	2801 Aug 05 19:34	19°♄28'51	0.58331 AU
minimum elong	2800 Aug 27 11:49	4°♄46'08	4°36'16	inferior conj	2801 Aug 09 00:30	17°♄11'48	-5°01'55
morning rise	2800 Sep 03 19:11	0°♄12'46		minimum elong	2801 Aug 09 02:00	17°♄09'07	5°01'52
	2800 Sep 04 15:50	30°♄		morning rise	2801 Aug 16 23:02	12°♄51'16	
direct	2800 Sep 06 04:44	29°♄50'53		direct	2801 Aug 19 11:09	12°♄31'22	
	2800 Sep 07 17:05	0°♄		morning max el	2801 Aug 27 19:40	16°♄29'31	18°44'19
morning max el	2800 Sep 13 14:05	3°♄28'43	18°07'56	asc. node	2801 Aug 31 14:02	20°♄47'50	
asc. node	2800 Sep 13 16:59	3°♄35'46			2801 Sep 06 11:17	0°♄	
morning set	2800 Sep 29 10:04	28°♄34'26		morning set	2801 Sep 13 04:50	12°♄39'22	
	2800 Sep 30 04:20	0°♄					
				superior conj	2801 Sep 21 19:53	29°♄21'35	1°36'27
superior conj	2800 Oct 09 02:15	16°♄26'45	1°18'40	minimum elong	2801 Sep 21 22:30	29°♄33'56	1°36'16
minimum elong	2800 Oct 09 06:22	16°♄45'14	1°18'12		2801 Sep 22 04:02	0°♄	
max. Earth dist.	2800 Oct 16 17:26	29°♄43'05	1.41484 AU	max. Earth dist.	2801 Sep 28 22:51	12°♄23'24	1.39455 AU
	2800 Oct 16 21:27	0°♄		evening rise	2801 Oct 02 23:05	19°♄19'55	
desc. node	2800 Oct 21 11:45	7°♄35'10		desc. node	2801 Oct 08 08:45	28°♄15'38	
evening rise	2800 Oct 21 23:30	8°♄22'40			2801 Oct 09 10:49	0°♄	
	2800 Nov 05 01:37	0°♄			2801 Oct 30 07:53	0°♄	
evening max el	2800 Nov 24 14:49	25°♄19'48	22°50'00	evening max el	2801 Nov 07 04:16	8°♄56'57	24°09'54
	2800 Nov 30 09:11	0°♄		retrograde	2801 Nov 18 06:59	15°♄28'09	
retrograde	2800 Dec 04 15:24	1°♄16'48		evening set	2801 Nov 23 14:23	13°♄15'17	
	2800 Dec 08 12:21	30°♄		asc. node	2801 Nov 27 13:16	8°♄50'29	
evening set	2800 Dec 09 09:15	29°♄20'37		min. Earth dist.	2801 Nov 28 08:16	7°♄47'15	0.67695 AU
asc. node	2800 Dec 10 16:15	28°♄07'53		inferior conj	2801 Nov 29 00:57	6°♄50'59	0°30'28
inferior conj	2800 Dec 14 18:04	22°♄58'21	1°21'23	minimum elong	2801 Nov 29 00:14	6°♄53'26	0°30'09
minimum elong	2800 Dec 14 16:19	23°♄04'25	1°20'42	morning rise	2801 Dec 04 10:05	0°♄46'54	
min. Earth dist.	2800 Dec 14 12:03	23°♄19'09	0.67899 AU		2801 Dec 05 16:11	30°♄	
morning rise	2800 Dec 19 23:15	16°♄49'00		direct	2801 Dec 08 07:27	29°♄20'45	
direct	2800 Dec 24 10:11	15°♄00'36			2801 Dec 11 02:12	0°♄	
morning max el	2801 Jan 02 09:21	20°♄15'36	21°43'51	morning max el	2801 Dec 16 05:33	3°♄53'34	20°27'08
	2801 Jan 10 13:29	0°♄		desc. node	2802 Jan 04 07:59	29°♄41'41	
desc. node	2801 Jan 17 10:59	9°♄33'25			2802 Jan 04 12:52	0°♄	
	2801 Jan 31 01:38	0°♄		morning set	2802 Jan 13 13:37	13°♄46'49	
morning set	2801 Feb 03 13:57	5°♄32'49		max. Earth dist.	2802 Jan 23 04:26	28°♄57'42	1.43414 AU
max. Earth dist.	2801 Feb 09 21:20	15°♄48'39	1.41630 AU		2802 Jan 23 19:53	0°♄	
superior conj	2801 Feb 17 12:51	28°♄50'39	-2°04'35	superior conj	2802 Jan 29 10:44	9°♄12'13	-2°03'27
minimum elong	2801 Feb 17 14:45	28°♄58'55	2°04'32	minimum elong	2802 Jan 29 07:37	8°♄59'17	2°03'20
	2801 Feb 18 04:40	0°♄		evening rise	2802 Feb 10 20:25	0°♄26'32	
evening rise	2801 Feb 28 07:44	18°♄18'56			2802 Feb 10 14:22	0°♄	

asc. node	2802 Feb 23 12:37	21° H 40'25		superior conj	2803 Jan 09 06:44	18° Z 24'48	-1°43'51
evening max el	2802 Feb 28 05:06	27° H 30'09	18°08'06	minimum elong	2803 Jan 08 22:29	17° Z 51'56	1°43'11
	2802 Mar 03 10:24	0° Y			2803 Jan 16 11:03	0° \approx	
retrograde	2802 Mar 06 16:46	0° Y 53'24		evening rise	2803 Jan 23 12:35	11° \approx 39'36	
evening set	2802 Mar 09 11:56	0° Y 14'38			2803 Feb 03 16:03	0° H	
	2802 Mar 09 23:52	30° R H		asc. node	2803 Feb 10 09:38	9° H 24'26	
inferior conj	2802 Mar 15 19:25	25° H 05'44	3°36'10	evening max el	2803 Feb 11 17:33	10° H 50'59	18°23'37
minimum elong	2802 Mar 15 20:36	25° H 02'40	3°36'04	retrograde	2803 Feb 18 05:19	14° H 22'49	
min. Earth dist.	2802 Mar 18 16:52	22° H 07'13	0.62239 AU	evening set	2803 Feb 21 05:57	13° H 32'43	
morning rise	2802 Mar 22 03:57	19° H 05'56		inferior conj	2803 Feb 27 03:40	8° H 04'57	3°40'05
direct	2802 Mar 29 01:32	16° H 34'33		minimum elong	2803 Feb 27 03:06	8° H 06'35	3°40'03
desc. node	2802 Apr 02 07:12	17° H 25'34		min. Earth dist.	2803 Mar 01 10:13	5° H 28'12	0.64133 AU
morning max el	2802 Apr 12 03:16	24° H 31'00	27°50'35	morning rise	2803 Mar 04 23:34	1° H 57'03	
	2802 Apr 17 02:48	0° Y			2803 Mar 08 00:29	30° R \approx	
	2802 May 07 01:12	0° B		direct	2803 Mar 11 20:09	29° \approx 08'48	
morning set	2802 May 15 18:37	16° B 40'20			2803 Mar 15 21:58	0° H	
max. Earth dist.	2802 May 21 10:08	28° B 31'03	1.32510 AU	desc. node	2803 Mar 20 04:14	2° H 25'19	
asc. node	2802 May 22 11:54	0° II 50'14		morning max el	2803 Mar 25 12:10	7° H 03'19	27°31'09
	2802 May 22 02:37	0° II			2803 Apr 12 03:11	0° Y	
					2803 Apr 29 06:09	0° B	
superior conj	2802 May 23 06:31	2° II 31'15	0°08'11	morning set	2803 Apr 29 13:15	0° B 34'56	
minimum elong	2802 May 23 06:08	2° II 29'09	0°08'06	max. Earth dist.	2803 May 04 11:47	10° B 36'25	1.33296 AU
behind sun begin	2802 May 23 01:39	2° II 04'50					
behind sun end	2802 May 23 10:36	2° II 53'30		superior conj	2803 May 07 12:25	16° B 59'20	-0°19'23
evening rise	2802 May 30 04:48	17° II 32'34		minimum elong	2803 May 07 13:23	17° B 04'31	0°19'10
	2802 Jun 05 08:12	0° E		asc. node	2803 May 09 08:57	20° B 57'33	
evening max el	2802 Jun 23 21:45	27° E 06'18	24°11'22		2803 May 13 14:09	0° II	
	2802 Jun 27 06:25	0° O		evening rise	2803 May 14 16:20	2° II 18'41	
desc. node	2802 Jun 29 06:28	1° O 22'54			2803 May 30 02:24	0° E	
retrograde	2802 Jul 07 17:23	4° O 04'15		evening max el	2803 Jun 05 12:02	7° E 32'59	22°34'50
evening set	2802 Jul 12 08:34	3° O 16'34		desc. node	2803 Jun 16 03:30	13° E 50'33	
min. Earth dist.	2802 Jul 18 08:26	0° O 19'04	0.56507 AU	retrograde	2803 Jun 18 15:24	14° E 04'50	
	2802 Jul 18 20:53	30° R E		evening set	2803 Jun 21 19:07	13° E 42'55	
inferior conj	2802 Jul 20 21:53	28° E 43'26	-4°52'29	min. Earth dist.	2803 Jun 29 19:39	10° E 13'00	0.55258 AU
minimum elong	2802 Jul 20 17:50	28° E 49'47	4°52'04	inferior conj	2803 Jul 01 00:53	9° E 31'22	-3°55'47
morning rise	2802 Jul 29 05:45	24° E 43'06		minimum elong	2803 Jun 30 16:52	9° E 42'49	3°53'50
direct	2802 Jul 31 22:30	24° E 23'53		morning rise	2803 Jul 09 16:48	5° E 40'10	
morning max el	2802 Aug 10 15:35	28° E 54'34	19°42'14	direct	2803 Jul 12 15:49	5° E 20'06	
	2802 Aug 11 18:11	0° O		morning max el	2803 Jul 24 00:05	10° E 36'15	21°01'01
asc. node	2802 Aug 18 11:06	8° O 53'10		asc. node	2803 Aug 05 08:09	27° E 38'29	
morning set	2802 Aug 28 07:20	27° O 07'29			2803 Aug 06 15:10	0° O	
	2802 Aug 29 17:29	0° P		morning set	2803 Aug 12 14:53	11° O 50'22	
superior conj	2802 Sep 05 05:02	13° P 03'19	1°44'22	superior conj	2803 Aug 20 01:06	27° O 17'34	1°44'09
minimum elong	2802 Sep 05 05:50	13° P 07'17	1°44'21	minimum elong	2803 Aug 20 00:21	27° O 13'47	1°44'08
max. Earth dist.	2802 Sep 11 03:24	24° P 28'52	1.37413 AU		2803 Aug 21 08:48	0° P	
	2802 Sep 14 03:33	0° E		max. Earth dist.	2803 Aug 24 12:23	6° P 19'28	1.35585 AU
evening rise	2802 Sep 14 21:54	1° E 22'24		evening rise	2803 Aug 28 16:04	14° P 19'48	
desc. node	2802 Sep 25 05:47	18° E 46'49			2803 Sep 06 11:59	0° E	
	2802 Oct 02 14:58	0° M		desc. node	2803 Sep 12 02:49	9° E 02'39	
evening max el	2802 Oct 20 16:22	22° M 37'19	25°24'47		2803 Sep 27 08:50	0° M	
retrograde	2802 Nov 01 18:15	29° M 34'31		evening max el	2803 Oct 03 04:32	6° M 16'39	26°27'24
evening set	2802 Nov 07 15:49	27° M 06'34		retrograde	2803 Oct 16 00:37	13° M 29'23	
min. Earth dist.	2802 Nov 12 01:51	22° M 13'17	0.67155 AU	evening set	2803 Oct 22 11:37	10° M 50'27	
inferior conj	2802 Nov 13 05:23	20° M 44'23	-0°24'52	min. Earth dist.	2803 Oct 26 14:27	6° M 33'02	0.66266 AU
minimum elong	2802 Nov 13 06:01	20° M 42'20	0°24'36	inferior conj	2803 Oct 28 05:27	4° M 34'57	-1°23'17
asc. node	2802 Nov 14 10:18	19° M 12'16		minimum elong	2803 Oct 28 07:41	4° M 28'09	1°22'22
morning rise	2802 Nov 18 20:29	14° M 47'57		asc. node	2803 Nov 01 07:21	0° M 09'28	
direct	2802 Nov 22 05:56	13° M 41'33			2803 Nov 01 11:47	30° R E	
morning max el	2802 Nov 29 09:42	17° M 42'48	19°23'51	morning rise	2803 Nov 03 04:20	28° E 48'46	
	2802 Dec 08 23:16	0° A		direct	2803 Nov 06 04:00	27° E 58'26	
greatest brilliancy	2802 Dec 12 20:50	5° A 47'10	-0.7m		2803 Nov 11 00:31	0° M	
desc. node	2802 Dec 22 05:01	20° A 06'14		morning max el	2803 Nov 12 20:30	1° M 38'56	18°36'09
morning set	2802 Dec 23 12:33	22° A 08'16			2803 Dec 02 08:19	0° A	
	2802 Dec 28 14:00	0° Z		morning set	2803 Dec 03 09:29	1° A 40'06	
max. Earth dist.	2803 Jan 05 18:14	12° Z 49'20	1.44641 AU	desc. node	2803 Dec 09 02:04	10° A 42'01	

superior conj	2803 Dec 19 09:54	26° ♊ 57'08	-1°06'00	minimum elong	2804 Nov 27 13:50	5° ♊ 35'41	0°17'58
minimum elong	2803 Dec 19 01:55	26° ♊ 25'51	1°05'04	max. Earth dist.	2804 Dec 01 06:59	11° ♊ 28'44	1.44973 AU
max. Earth dist.	2803 Dec 19 11:59	27° ♊ 05'21	1.45175 AU		2804 Dec 13 03:59	0° ♋	
	2803 Dec 21 08:30	0° ♋		evening rise	2804 Dec 14 01:11	1° ♋ 22'03	
evening rise	2804 Jan 04 05:28	21° ♋ 55'09		greatest brilliancy	2804 Dec 27 10:43	21° ♋ 51'33	-0.7m
	2804 Jan 09 07:06	0° ♌			2805 Jan 02 02:03	0° ♌	
greatest brilliancy	2804 Jan 12 18:35	5° ♌ 31'20	-0.8m	evening max el	2805 Jan 08 10:11	7° ♌ 48'23	19°46'51
evening max el	2804 Jan 26 03:54	24° ♌ 18'18	18°57'05	asc. node	2805 Jan 14 03:41	11° ♌ 51'58	
asc. node	2804 Jan 28 06:39	26° ♌ 13'13		retrograde	2805 Jan 15 21:10	12° ♌ 08'19	
retrograde	2804 Feb 01 23:50	28° ♌ 09'40		evening set	2805 Jan 19 11:37	10° ♌ 52'25	
evening set	2804 Feb 05 06:40	27° ♌ 07'19		inferior conj	2805 Jan 24 22:35	4° ♌ 53'19	3°03'31
inferior conj	2804 Feb 10 21:46	21° ♌ 22'44	3°27'54	minimum elong	2805 Jan 24 20:08	5° ♌ 01'26	3°02'59
minimum elong	2804 Feb 10 19:58	21° ♌ 28'23	3°27'39	min. Earth dist.	2805 Jan 25 23:16	3° ♌ 31'28	0.66798 AU
min. Earth dist.	2804 Feb 12 12:52	19° ♌ 20'26	0.65665 AU		2805 Jan 28 20:23	30° ♍	
morning rise	2804 Feb 16 08:53	15° ♌ 10'53		morning rise	2805 Jan 30 04:25	28° ♍ 40'01	
direct	2804 Feb 22 21:45	12° ♌ 19'54		direct	2805 Feb 05 05:09	25° ♍ 58'34	
desc. node	2804 Mar 06 01:16	19° ♌ 09'18			2805 Feb 13 20:24	0° ♎	
morning max el	2804 Mar 06 22:06	20° ♌ 00'46	26°40'27	morning max el	2805 Feb 17 07:01	3° ♎ 10'42	25°27'01
	2804 Mar 15 11:45	0° ♏		desc. node	2805 Feb 20 22:19	7° ♎ 07'30	
	2804 Apr 04 05:02	0° ♏			2805 Mar 09 17:33	0° ♏	
morning set	2804 Apr 11 20:52	13° ♏ 53'18		morning set	2805 Mar 25 12:51	26° ♏ 20'55	
max. Earth dist.	2804 Apr 16 02:43	22° ♏ 08'26	1.34537 AU		2805 Mar 27 12:39	0° ♏	
	2804 Apr 19 23:45	0° ♐		max. Earth dist.	2805 Mar 29 05:55	3° ♏ 12'49	1.36232 AU
superior conj	2804 Apr 20 12:25	1° ♐ 05'27	-0°47'48	superior conj	2805 Apr 04 03:42	14° ♏ 40'47	-1°15'32
minimum elong	2804 Apr 20 14:54	1° ♐ 18'14	0°47'18	minimum elong	2805 Apr 04 07:31	14° ♏ 59'48	1°14'55
asc. node	2804 Apr 25 06:00	10° ♐ 59'21			2805 Apr 11 17:05	0° ♑	
evening rise	2804 Apr 28 01:45	16° ♐ 53'37		evening rise	2805 Apr 12 06:52	1° ♑ 09'54	
	2804 May 04 16:35	0° ♒		asc. node	2805 Apr 12 03:02	0° ♑ 50'29	
evening max el	2804 May 17 10:09	18° ♒ 18'09	21°05'05	evening max el	2805 Apr 29 19:57	29° ♑ 39'47	19°51'06
retrograde	2804 May 29 04:55	24° ♒ 03'29			2805 Apr 30 04:26	0° ♒	
evening set	2804 May 31 09:59	23° ♒ 52'04		retrograde	2805 May 09 20:56	4° ♒ 31'37	
desc. node	2804 Jun 02 00:31	23° ♒ 30'16		evening set	2805 May 11 20:48	4° ♒ 20'57	
inferior conj	2804 Jun 09 18:42	19° ♒ 53'54	-2°14'19	desc. node	2805 May 19 21:32	0° ♒ 50'24	
minimum elong	2804 Jun 09 12:31	20° ♒ 02'38	2°12'11	inferior conj	2805 May 20 17:31	0° ♒ 19'57	-0°14'37
min. Earth dist.	2804 Jun 10 07:44	19° ♒ 35'31	0.54879 AU	minimum elong	2805 May 20 16:51	0° ♒ 20'58	0°14'23
morning rise	2804 Jun 18 15:07	15° ♒ 53'02		transit middle	2805 May 20 16:51	0° ♒ 20'58	0°14'23
direct	2804 Jun 22 01:26	15° ♒ 27'36		transit begin	2805 May 20 15:08	0° ♒ 23'36	
morning max el	2804 Jul 04 21:51	21° ♒ 35'25	22°36'23	transit end	2805 May 20 18:34	0° ♒ 18'20	
	2804 Jul 12 03:12	0° ♓			2805 May 21 06:30	30° ♓	
asc. node	2804 Jul 22 05:14	16° ♓ 54'06		min. Earth dist.	2805 May 22 21:11	29° ♓ 00'58	0.55466 AU
morning set	2804 Jul 27 01:25	26° ♓ 42'12		morning rise	2805 May 29 10:42	25° ♓ 51'53	
	2804 Jul 28 14:54	0° ♑		direct	2805 Jun 02 16:31	25° ♓ 12'10	
superior conj	2804 Aug 03 04:36	11° ♑ 53'46	1°37'17	morning max el	2805 Jun 14 03:53	0° ♑	
minimum elong	2804 Aug 03 02:49	11° ♑ 44'17	1°37'09		2805 Jun 16 12:55	2° ♑ 05'10	24°18'59
max. Earth dist.	2804 Aug 06 06:04	18° ♑ 19'37	1.34117 AU	asc. node	2805 Jul 05 19:05	0° ♑	
evening rise	2804 Aug 11 01:03	28° ♑ 00'11		morning set	2805 Jul 09 02:18	6° ♑ 31'43	
	2804 Aug 12 01:39	0° ♒			2805 Jul 11 13:11	11° ♑ 37'36	
desc. node	2804 Aug 28 23:51	28° ♒ 56'00		superior conj	2805 Jul 18 12:54	26° ♑ 43'26	1°24'57
	2804 Aug 29 17:08	0° ♓		minimum elong	2805 Jul 18 10:35	26° ♑ 30'54	1°24'39
evening max el	2804 Sep 14 16:52	19° ♓ 47'03	27°10'13		2805 Jul 20 01:15	0° ♓	
retrograde	2804 Sep 28 01:23	27° ♓ 05'10		max. Earth dist.	2805 Jul 20 08:46	0° ♓ 40'28	1.33053 AU
evening set	2804 Oct 04 23:26	24° ♓ 22'24		evening rise	2805 Jul 25 20:48	12° ♓ 11'50	
min. Earth dist.	2804 Oct 08 19:49	20° ♓ 40'44	0.65024 AU		2805 Aug 04 06:41	0° ♓	
inferior conj	2804 Oct 10 22:57	18° ♓ 18'17	-2°22'57	desc. node	2805 Aug 15 20:52	18° ♓ 17'28	
minimum elong	2804 Oct 11 02:51	18° ♓ 07'25	2°21'28		2805 Aug 25 06:09	0° ♓	
morning rise	2804 Oct 17 07:11	12° ♓ 45'21		evening max el	2805 Aug 28 03:53	2° ♓ 56'40	27°26'18
asc. node	2804 Oct 18 04:24	12° ♓ 24'25		retrograde	2805 Sep 10 19:53	10° ♓ 13'29	
direct	2804 Oct 19 23:28	12° ♓ 07'11		evening set	2805 Sep 18 00:16	7° ♓ 36'49	
morning max el	2804 Oct 26 11:30	15° ♓ 36'08	18°05'06	min. Earth dist.	2805 Sep 21 15:48	4° ♓ 27'54	0.63440 AU
	2804 Nov 05 19:37	0° ♔		inferior conj	2805 Sep 24 07:18	1° ♓ 48'31	-3°21'00
morning set	2804 Nov 13 11:54	12° ♔ 40'01		minimum elong	2805 Sep 24 12:32	1° ♓ 35'23	3°19'21
	2804 Nov 24 01:57	0° ♕			2805 Sep 26 03:37	30° ♔	
desc. node	2804 Nov 24 23:07	1° ♕ 25'03		morning rise	2805 Oct 01 02:04	26° ♔ 32'16	
				direct	2805 Oct 03 13:36	26° ♔ 02'38	
superior conj	2804 Nov 27 16:07	5° ♕ 44'49	-0°18'18	asc. node	2805 Oct 05 01:28	26° ♔ 13'37	

morning max el	2805 Oct 10 03:53	29° \cap 28'13	17°51'33	morning set	2806 Oct 09 15:07	8° Ω 03'27	
	2805 Oct 10 16:18	0° Ω					
morning set	2805 Oct 26 15:58	24° Ω 54'40		superior conj	2806 Oct 20 01:59	26° Ω 48'36	1°03'18
	2805 Oct 29 14:16	0° \cap		minimum elong	2806 Oct 20 06:23	27° Ω 07'44	1°02'45
					2806 Oct 21 22:18	0° \cap	
superior conj	2805 Nov 07 19:34	15° \cap 37'09	0°27'21	max. Earth dist.	2806 Oct 27 13:49	9° \cap 29'28	1.42551 AU
minimum elong	2805 Nov 07 22:20	15° \cap 48'37	0°26'58	desc. node	2806 Oct 29 17:11	12° \cap 59'24	
desc. node	2805 Nov 11 20:09	22° \cap 12'10		evening rise	2806 Nov 03 01:03	19° \cap 54'57	
max. Earth dist.	2805 Nov 14 00:36	25° \cap 43'14	1.44061 AU		2806 Nov 09 13:23	0° \nearrow	
	2805 Nov 16 17:07	0° \nearrow			2806 Nov 30 22:25	0° \searrow	
evening rise	2805 Nov 23 10:20	10° \nearrow 29'02		evening max el	2806 Dec 05 06:37	4° \searrow 52'21	22°04'29
	2805 Dec 06 08:58	0° \searrow		retrograde	2806 Dec 14 15:41	10° \searrow 27'13	
evening max el	2805 Dec 22 11:13	21° \searrow 20'07	20°50'27	asc. node	2806 Dec 18 21:45	8° \searrow 49'43	
retrograde	2805 Dec 30 19:04	26° \searrow 15'35		evening set	2806 Dec 19 02:30	8° \searrow 40'17	
asc. node	2806 Jan 01 00:43	26° \searrow 07'08		inferior conj	2806 Dec 24 10:53	2° \searrow 20'54	1°48'12
evening set	2806 Jan 03 18:49	24° \searrow 44'44		minimum elong	2806 Dec 24 08:43	2° \searrow 28'25	1°47'25
inferior conj	2806 Jan 09 03:40	18° \searrow 33'51	2°29'41	min. Earth dist.	2806 Dec 24 11:01	2° \searrow 20'26	0.67868 AU
minimum elong	2806 Jan 09 01:07	18° \searrow 42'35	2°28'55		2806 Dec 26 04:12	30° \nearrow \nearrow	
min. Earth dist.	2806 Jan 09 15:25	17° \searrow 53'32	0.67527 AU	morning rise	2806 Dec 29 14:49	26° \nearrow 09'46	
morning rise	2806 Jan 14 07:15	12° \searrow 20'50		direct	2807 Jan 03 10:02	24° \nearrow 08'25	
direct	2806 Jan 19 17:31	9° \searrow 57'20		morning max el	2807 Jan 13 01:55	29° \nearrow 50'45	22°32'31
morning max el	2806 Jan 30 15:25	16° \searrow 27'37	24°01'02		2807 Jan 13 05:35	0° \searrow	
desc. node	2806 Feb 07 19:21	25° \searrow 59'01		desc. node	2807 Jan 25 16:23	15° \searrow 28'15	
	2806 Feb 10 20:16	0° \approx			2807 Feb 04 16:02	0° \approx	
	2806 Mar 02 17:43	0° \bowtie		morning set	2807 Feb 15 22:41	17° \approx 44'09	
morning set	2806 Mar 07 07:24	7° \bowtie 42'33		max. Earth dist.	2807 Feb 20 22:12	26° \approx 02'22	1.40443 AU
max. Earth dist.	2806 Mar 11 01:56	14° \bowtie 19'26	1.38280 AU		2807 Feb 23 05:38	0° \bowtie	
superior conj	2806 Mar 18 06:47	27° \bowtie 36'30	-1°40'15	superior conj	2807 Feb 28 17:11	9° \bowtie 41'32	-1°58'37
minimum elong	2806 Mar 18 11:15	27° \bowtie 57'47	1°39'45	minimum elong	2807 Feb 28 20:44	9° \bowtie 57'34	1°58'25
	2806 Mar 19 12:49	0° Υ		evening rise	2807 Mar 10 17:35	28° \bowtie 19'05	
evening rise	2806 Mar 27 05:11	15° Υ 00'56			2807 Mar 11 14:59	0° Υ	
asc. node	2806 Mar 30 00:03	20° Υ 26'22		asc. node	2807 Mar 16 21:05	9° Υ 41'36	
	2806 Apr 04 05:12	0° \bowtie		evening max el	2807 Mar 26 22:17	24° Υ 15'21	18°22'10
evening max el	2806 Apr 12 16:53	11° \bowtie 40'39	18°56'30	retrograde	2807 Apr 03 06:02	27° Υ 53'11	
retrograde	2806 Apr 21 03:53	15° \bowtie 47'46		evening set	2807 Apr 05 16:05	27° Υ 30'28	
evening set	2806 Apr 23 07:49	15° \bowtie 32'41		inferior conj	2807 Apr 12 22:32	22° Υ 54'05	2°43'15
inferior conj	2806 May 01 09:18	11° \bowtie 16'16	1°30'09	minimum elong	2807 Apr 13 02:17	22° Υ 46'17	2°42'22
minimum elong	2806 May 01 12:31	11° \bowtie 10'34	1°29'08	min. Earth dist.	2807 Apr 16 09:08	20° Υ 03'54	0.58858 AU
min. Earth dist.	2806 May 04 12:53	9° \bowtie 03'13	0.56892 AU	morning rise	2807 Apr 20 09:40	17° Υ 21'03	
desc. node	2806 May 06 18:33	7° \bowtie 37'58		desc. node	2807 Apr 23 15:34	16° Υ 02'44	
morning rise	2806 May 09 14:05	6° \bowtie 13'18		direct	2807 Apr 26 13:49	15° Υ 39'53	
direct	2806 May 14 20:15	5° \bowtie 07'27		morning max el	2807 May 10 23:04	23° Υ 24'42	27°06'47
morning max el	2806 May 29 03:36	12° \bowtie 32'21	25°54'20		2807 May 16 20:58	0° \bowtie	
	2806 Jun 11 18:09	0° \cap			2807 Jun 04 18:58	0° \cap	
asc. node	2806 Jun 25 23:20	26° \cap 24'41		morning set	2807 Jun 10 09:55	11° \cap 17'31	
morning set	2806 Jun 26 00:34	26° \cap 31'09		asc. node	2807 Jun 12 20:22	16° \cap 27'50	
	2806 Jun 27 15:46	0° \searrow					
				superior conj	2807 Jun 17 11:39	26° \cap 35'44	0°47'12
superior conj	2806 Jul 02 23:50	11° \searrow 39'21	1°08'00	minimum elong	2807 Jun 17 09:45	26° \cap 25'19	0°46'50
minimum elong	2806 Jul 02 21:30	11° \searrow 26'33	1°07'37	max. Earth dist.	2807 Jun 17 05:53	26° \cap 04'00	1.32117 AU
max. Earth dist.	2806 Jul 03 17:56	13° \searrow 18'41	1.32389 AU		2807 Jun 19 00:43	0° \searrow	
evening rise	2806 Jul 10 00:03	26° \searrow 44'37		evening rise	2807 Jun 24 08:15	11° \searrow 30'27	
	2806 Jul 11 14:02	0° Ω			2807 Jul 03 18:54	0° Ω	
	2806 Jul 28 17:10	0° \cap		desc. node	2807 Jul 20 14:53	24° Ω 25'04	
desc. node	2806 Aug 02 17:53	6° \cap 53'23		evening max el	2807 Jul 23 11:12	27° Ω 19'42	26°21'41
evening max el	2806 Aug 10 10:50	15° \cap 30'54	27°10'33		2807 Jul 26 13:08	0° \cap	
retrograde	2806 Aug 24 07:15	22° \cap 44'36		retrograde	2807 Aug 06 10:40	4° \cap 30'49	
evening set	2806 Aug 31 10:09	20° \cap 26'20		evening set	2807 Aug 13 00:24	2° \cap 43'43	
min. Earth dist.	2806 Sep 04 01:04	17° \cap 41'47	0.61560 AU	min. Earth dist.	2807 Aug 17 00:17	0° \cap 08'15	0.59503 AU
inferior conj	2806 Sep 07 03:19	14° \cap 57'03	-4°12'51		2807 Aug 17 04:43	30° \nearrow Ω	
minimum elong	2806 Sep 07 08:50	14° \cap 44'45	4°11'35	inferior conj	2807 Aug 20 07:29	27° Ω 35'05	-4°50'50
morning rise	2806 Sep 14 09:12	10° \cap 01'04		minimum elong	2807 Aug 20 11:15	27° Ω 27'44	4°50'24
direct	2806 Sep 16 18:45	9° \cap 37'00		morning rise	2807 Aug 30 00:15	23° Ω 01'50	
asc. node	2806 Sep 21 22:31	11° \cap 32'31		direct	2807 Aug 30 10:35	22° Ω 41'02	
morning max el	2806 Sep 23 18:37	13° \cap 07'22	17°56'24	morning max el	2807 Sep 07 04:34	26° Ω 25'47	18°20'52
	2806 Oct 05 04:25	0° Ω		asc. node	2807 Sep 08 19:34	28° Ω 08'10	

	2807 Sep 10 08:17	0°♎			2808 Sep 02 23:17	0°♎	
morning set	2807 Sep 23 03:59	21°♎51'33		morning set	2808 Sep 06 02:25	6°♎07'09	
	2807 Sep 27 10:26	0°♏					
superior conj	2807 Oct 02 08:25	9°♏10'55	1°27'30	superior conj	2808 Sep 14 09:17	22°♎27'32	1°40'53
minimum elong	2807 Oct 02 12:00	9°♏27'20	1°27'10	minimum elong	2808 Sep 14 11:08	22°♎36'23	1°40'48
max. Earth dist.	2807 Oct 09 21:15	22°♏33'28	1.40640 AU	max. Earth dist.	2808 Sep 18 08:48	0°♏	
evening rise	2807 Oct 14 11:00	0°♏14'42		evening rise	2808 Sep 21 01:10	4°♏55'02	1.38572 AU
	2807 Oct 14 07:26	0°♏		evening rise	2808 Sep 24 20:48	11°♏40'44	
desc. node	2807 Oct 16 14:12	3°♏43'39		desc. node	2808 Oct 02 11:14	24°♏20'54	
	2807 Nov 03 00:40	0°♐			2808 Oct 06 01:31	0°♏	
evening max el	2807 Nov 17 21:32	18°♐26'55	23°24'01	evening max el	2808 Oct 28 09:16	0°♐	
retrograde	2807 Nov 28 09:34	24°♐39'54		retrograde	2808 Oct 30 10:11	2°♐05'59	24°42'48
evening set	2807 Dec 03 09:02	22°♐36'24		evening set	2808 Nov 10 23:36	8°♐49'57	
asc. node	2807 Dec 05 18:47	20°♐07'54		min. Earth dist.	2808 Nov 16 12:50	6°♐30'34	
inferior conj	2807 Dec 08 18:26	16°♐12'28	1°00'24	inferior conj	2808 Nov 21 03:19	1°♐16'51	0.67504 AU
minimum elong	2807 Dec 08 17:04	16°♐17'09	0°59'50	asc. node	2808 Nov 21 15:49	0°♐35'23	
min. Earth dist.	2807 Dec 08 07:48	16°♐48'57	0.67855 AU	inferior conj	2808 Nov 22 00:32	0°♐06'25	0°07'29
morning rise	2807 Dec 14 01:02	10°♐05'03		minimum elong	2808 Nov 22 00:21	0°♐07'02	0°07'24
direct	2807 Dec 18 05:53	8°♐26'32		transit middle	2808 Nov 22 00:21	0°♐07'02	0°07'24
morning max el	2807 Dec 26 17:53	13°♐22'52	21°09'41	transit begin	2808 Nov 21 21:54	0°♐15'10	
	2808 Jan 08 19:37	0°♑		transit end	2808 Nov 22 02:48	29°♏58'53	
desc. node	2808 Jan 12 13:25	5°♑24'40			2808 Nov 22 02:28	30°♏	
morning set	2808 Jan 26 09:44	26°♑27'17		morning rise	2808 Nov 27 11:57	24°♏05'01	
	2808 Jan 28 15:36	0°♒		direct	2808 Dec 01 03:58	22°♏47'39	
max. Earth dist.	2808 Feb 03 00:14	8°♒38'20	1.42440 AU	morning max el	2808 Dec 08 17:29	27°♏06'04	19°58'18
					2808 Dec 11 08:47	0°♒	
superior conj	2808 Feb 10 05:41	20°♒43'36	-2°06'07	desc. node	2808 Dec 29 10:27	25°♒40'50	
minimum elong	2808 Feb 10 05:44	20°♒43'49	2°06'07		2809 Jan 01 06:19	0°♑	
	2808 Feb 15 13:42	0°♓		morning set	2809 Jan 04 05:48	4°♑35'00	
evening rise	2808 Feb 21 16:11	10°♓55'01		max. Earth dist.	2809 Jan 15 09:59	22°♑06'07	1.44012 AU
asc. node	2808 Mar 02 18:06	28°♓28'51			2809 Jan 20 07:41	0°♒	
	2808 Mar 03 17:31	0°♑					
evening max el	2808 Mar 09 08:52	7°♑14'39	18°07'43	superior conj	2809 Jan 20 16:22	0°♒35'24	-1°57'33
retrograde	2808 Mar 16 00:52	10°♑39'04		minimum elong	2809 Jan 20 10:47	0°♒12'38	1°57'15
evening set	2808 Mar 18 16:49	10°♑06'35		evening rise	2809 Feb 02 20:38	22°♒40'19	
inferior conj	2808 Mar 25 07:35	5°♑09'37	3°24'29		2809 Feb 07 03:09	0°♓	
minimum elong	2808 Mar 25 09:52	5°♑04'06	3°24'10	asc. node	2809 Feb 17 15:08	16°♓39'23	
min. Earth dist.	2808 Mar 28 12:15	2°♑06'48	0.61025 AU	evening max el	2809 Feb 20 21:33	20°♓30'23	18°12'31
	2808 Mar 31 00:43	30°♓		retrograde	2809 Feb 27 08:09	23°♓55'32	
morning rise	2808 Apr 01 01:02	29°♓16'57		evening set	2809 Mar 02 05:37	23°♓12'04	
direct	2808 Apr 07 19:07	27°♓00'56		inferior conj	2809 Mar 08 08:33	17°♓55'15	3°40'04
desc. node	2808 Apr 09 12:36	27°♓09'23		minimum elong	2809 Mar 08 08:57	17°♓54'10	3°40'03
	2808 Apr 16 03:30	0°♑		min. Earth dist.	2809 Mar 11 00:02	15°♓03'45	0.63086 AU
morning max el	2808 Apr 22 00:46	4°♑56'04	27°45'21	morning rise	2809 Mar 14 11:15	11°♓51'31	
	2808 May 10 17:01	0°♒		direct	2809 Mar 21 09:36	9°♓10'53	
morning set	2808 May 24 15:22	25°♒49'23		desc. node	2809 Mar 27 09:37	10°♓53'29	
	2808 May 26 15:27	0°♓		morning max el	2809 Apr 04 07:33	17°♓07'47	27°46'28
asc. node	2808 May 29 17:24	6°♓35'44			2809 Apr 15 00:17	0°♑	
max. Earth dist.	2808 May 30 16:46	8°♓42'49	1.32245 AU		2809 May 03 11:02	0°♒	
				morning set	2809 May 08 14:42	9°♒59'51	
superior conj	2808 May 31 22:34	11°♓25'39	0°23'11	max. Earth dist.	2809 May 13 22:47	21°♒03'04	1.32790 AU
minimum elong	2808 May 31 21:31	11°♓19'57	0°22'58				
evening rise	2808 Jun 07 19:13	26°♓21'14		superior conj	2809 May 16 06:52	26°♒03'35	-0°03'20
	2808 Jun 09 12:51	0°♔		minimum elong	2809 May 16 07:01	26°♒04'27	0°03'18
	2808 Jun 26 22:01	0°♕		behind sun begin	2809 May 16 01:52	25°♒36'38	
evening max el	2808 Jul 04 04:28	8°♕21'49	25°04'23	behind sun end	2809 May 16 12:11	26°♒32'18	
desc. node	2808 Jul 06 11:54	10°♕25'23		asc. node	2809 May 16 14:27	26°♒44'32	
retrograde	2808 Jul 18 04:01	15°♕27'25			2809 May 18 02:33	0°♓	
evening set	2808 Jul 23 14:58	14°♕19'09		evening rise	2809 May 23 07:05	11°♓10'55	
min. Earth dist.	2808 Jul 28 16:07	11°♕34'04	0.57501 AU		2809 Jun 01 22:22	0°♔	
inferior conj	2808 Jul 31 16:30	9°♕32'27	-5°03'04	evening max el	2809 Jun 15 18:01	18°♔53'28	23°30'21
minimum elong	2808 Jul 31 15:47	9°♕33'39	5°03'03	desc. node	2809 Jun 23 08:55	24°♔20'45	
morning rise	2808 Aug 08 19:09	5°♕21'17		retrograde	2809 Jun 29 08:44	25°♔42'15	
direct	2808 Aug 11 08:49	5°♕01'59		evening set	2809 Jul 03 08:01	25°♔07'43	
morning max el	2808 Aug 20 06:25	9°♕12'45	19°06'20	min. Earth dist.	2809 Jul 10 04:06	21°♔57'50	0.55887 AU
asc. node	2808 Aug 25 16:37	15°♕44'29		inferior conj	2809 Jul 12 05:27	20°♔44'25	-4°34'38
				minimum elong	2809 Jul 11 23:11	20°♔53'47	4°33'36

morning rise	2809 Jul 20 16:53	16°  49'23			2810 Jun 24 11:54	30°  II	
direct	2809 Jul 23 12:03	16°  30'01		morning rise	2810 Jun 30 21:29	27°  II25'40	
morning max el	2809 Aug 02 21:28	21°  19'11	20°13'19	direct	2810 Jul 04 00:45	27°  II03'57	
	2809 Aug 09 23:33	0°  Ω			2810 Jul 12 16:34	0°  Ω	
asc. node	2809 Aug 12 13:40	4°  Ω07'56		morning max el	2810 Jul 16 00:58	2°  Ω41'28	21°40'02
morning set	2809 Aug 21 07:19	20°  Ω41'58		asc. node	2810 Jul 30 10:44	23°  Ω07'28	
	2809 Aug 25 20:05	0°  ♍			2810 Aug 02 23:55	0°  Ω	
				morning set	2810 Aug 05 16:24	5°  Ω29'49	
superior conj	2809 Aug 28 23:30	6°  ♍23'53	1°45'10				
minimum elong	2809 Aug 28 23:36	6°  ♍24'22	1°45'10	superior conj	2810 Aug 12 23:06	20°  Ω48'44	1°41'59
max. Earth dist.	2809 Sep 03 06:59	16°  ♍50'57	1.36600 AU	minimum elong	2810 Aug 12 21:51	20°  Ω42'14	1°41'55
evening rise	2809 Sep 07 04:23	24°  ♍07'54		max. Earth dist.	2810 Aug 16 19:47	28°  Ω45'20	1.34912 AU
	2809 Sep 10 11:00	0°  ♌			2810 Aug 17 10:37	0°  ♍	
desc. node	2809 Sep 19 08:16	14°  ♌46'15		evening rise	2810 Aug 21 05:24	7°  ♍25'14	
	2809 Sep 29 16:51	0°  ♌			2810 Sep 03 02:05	0°  ♌	
evening max el	2809 Oct 12 22:26	15°  ♌47'27	25°53'30	desc. node	2810 Sep 06 05:18	4°  ♌53'52	
retrograde	2809 Oct 25 08:45	22°  ♌52'04		evening max el	2810 Sep 25 10:54	29°  ♌24'58	26°48'29
evening set	2809 Oct 31 12:08	20°  ♌19'07			2810 Sep 26 01:42	0°  ♌	
min. Earth dist.	2809 Nov 04 19:09	15°  ♌40'49	0.66818 AU	retrograde	2810 Oct 08 12:37	6°  ♌40'17	
inferior conj	2809 Nov 06 03:22	13°  ♌59'22	-0°49'22	evening set	2810 Oct 15 04:52	3°  ♌58'42	
minimum elong	2809 Nov 06 04:40	13°  ♌55'17	0°48'48	min. Earth dist.	2810 Oct 19 04:52	29°  ♌56'47	0.65784 AU
asc. node	2809 Nov 08 12:53	11°  ♌05'47			2810 Oct 19 03:45	30°   ♌	
morning rise	2809 Nov 11 21:33	8°  ♌06'42		inferior conj	2810 Oct 21 00:57	27°  ♌47'48	-1°48'34
direct	2809 Nov 15 02:38	7°  ♌07'26		minimum elong	2810 Oct 21 03:54	27°  ♌39'07	1°47'21
morning max el	2809 Nov 22 00:38	10°  ♌58'31	19°01'33	asc. node	2810 Oct 26 09:55	22°  ♌32'47	
	2809 Dec 05 22:00	0°  ♌		morning rise	2810 Oct 27 03:38	22°  ♌06'56	
morning set	2809 Dec 14 12:10	13°  ♌21'31		direct	2810 Oct 29 23:58	21°  ♌22'06	
desc. node	2809 Dec 16 07:30	16°  ♌10'48		morning max el	2810 Nov 05 13:34	24°  ♌56'14	18°20'56
	2809 Dec 25 03:29	0°  ♌			2810 Nov 09 19:07	0°  ♌	
max. Earth dist.	2809 Dec 29 02:07	6°  ♌11'34	1.44964 AU	morning set	2810 Nov 24 21:45	23°  ♌32'09	
					2810 Nov 28 21:56	0°  ♌	
superior conj	2809 Dec 31 03:24	9°  ♌25'48	-1°29'44	desc. node	2810 Dec 03 04:34	6°  ♌50'30	
minimum elong	2809 Dec 30 18:22	8°  ♌50'10	1°28'50				
	2810 Jan 12 23:45	0°  ♌		superior conj	2810 Dec 10 05:10	17°  ♌57'18	-0°46'16
evening rise	2810 Jan 15 03:02	3°  ♌28'48		minimum elong	2810 Dec 09 23:16	17°  ♌34'07	0°45'29
	2810 Feb 01 01:37	0°  ♌		max. Earth dist.	2810 Dec 11 21:25	20°  ♌35'30	1.45186 AU
evening max el	2810 Feb 04 09:28	3°  ♌54'53	18°35'45		2810 Dec 17 21:30	0°  ♌	
asc. node	2810 Feb 04 12:11	4°  ♌01'46		evening rise	2810 Dec 26 10:22	13°  ♌22'29	
retrograde	2810 Feb 10 23:36	7°  ♌33'22		greatest brilliancy	2811 Jan 06 05:20	0°  ♌13'43	-0.8m
evening set	2810 Feb 14 02:51	6°  ♌38'01			2811 Jan 06 01:46	0°  ♌	
inferior conj	2810 Feb 19 21:24	1°  ♌02'48	3°36'32	evening max el	2811 Jan 18 18:18	17°  ♌23'43	19°16'15
minimum elong	2810 Feb 19 20:15	1°  ♌06'17	3°36'28	asc. node	2811 Jan 22 09:13	20°  ♌22'49	
	2810 Feb 20 18:18	30°   ♌		retrograde	2811 Jan 25 19:44	21°  ♌26'09	
min. Earth dist.	2810 Feb 21 21:16	28°  ♌39'52	0.64842 AU	evening set	2811 Jan 29 05:40	20°  ♌18'02	
morning rise	2810 Feb 25 13:09	24°  ♌53'08		inferior conj	2811 Feb 03 18:43	14°  ♌26'39	3°18'49
direct	2810 Mar 04 07:14	22°  ♌02'10		minimum elong	2811 Feb 03 16:34	14°  ♌33'34	3°18'27
desc. node	2810 Mar 14 06:40	26°  ♌41'31		min. Earth dist.	2811 Feb 05 03:24	12°  ♌41'30	0.66204 AU
morning max el	2810 Mar 17 17:02	29°  ♌51'32	27°12'53	morning rise	2811 Feb 09 03:12	8°  ♌13'58	
	2810 Mar 17 20:23	0°  ♌		direct	2811 Feb 15 11:12	5°  ♌26'07	
	2810 Apr 08 22:52	0°  ♌		morning max el	2811 Feb 28 02:51	12°  ♌56'06	26°11'24
morning set	2810 Apr 22 05:04	23°  ♌39'56		desc. node	2811 Mar 01 03:43	14°  ♌00'14	
	2810 Apr 25 09:52	0°  ♌			2811 Mar 13 21:35	0°  ♌	
max. Earth dist.	2810 Apr 26 20:14	2°  ♌54'28	1.33773 AU		2811 Apr 01 15:21	0°  ♌	
				morning set	2811 Apr 05 06:40	6°  ♌38'17	
superior conj	2810 Apr 30 10:33	10°  ♌23'04	-0°31'24	max. Earth dist.	2811 Apr 09 06:24	14°  ♌14'15	1.35212 AU
minimum elong	2810 Apr 30 12:09	10°  ♌31'31	0°31'04				
asc. node	2810 May 03 11:30	16°  ♌50'00		superior conj	2811 Apr 14 07:12	24°  ♌16'47	-0°59'46
evening rise	2810 May 07 17:57	25°  ♌53'05		minimum elong	2811 Apr 14 10:17	24°  ♌32'31	0°59'12
	2810 May 09 17:35	0°  ♌			2811 Apr 17 01:59	0°  ♌	
evening max el	2810 May 28 10:52	29°  ♌24'34	21°55'07	asc. node	2811 Apr 20 08:33	6°  ♌47'41	
	2810 May 29 01:47	0°  ♌		evening rise	2811 Apr 22 01:50	10°  ♌20'58	
retrograde	2810 Jun 10 01:45	5°  ♌38'08			2811 May 02 13:19	0°  ♌	
desc. node	2810 Jun 10 05:54	5°  ♌38'04		evening max el	2811 May 10 13:36	10°  ♌23'03	20°31'16
evening set	2810 Jun 12 17:55	5° ♌22'10		retrograde	2811 May 21 14:58	15° ♌46'04	
min. Earth dist.	2810 Jun 21 15:13	1° ♌34'42	0.54983 AU	evening set	2811 May 23 16:03	15° ♌35'46	
inferior conj	2810 Jun 22 02:59	1° ♌18'13	-3°17'07	desc. node	2811 May 28 02:55	14° ♌10'23	
minimum elong	2810 Jun 21 18:58	1° ♌29'27	3°14'45	inferior conj	2811 Jun 01 21:04	11° ♌37'56	-1°23'35

minimum elong	2811 Jun 01 17:07	11° Π 43'39	1°22'08	inferior conj	2812 May 12 02:10	22° \mathcal{B} 15'25	0°33'03
min. Earth dist.	2811 Jun 03 03:33	10° Π 53'49	0.55008 AU	minimum elong	2812 May 12 03:33	22° \mathcal{B} 13'09	0°32'34
morning rise	2811 Jun 10 17:18	7° Π 27'32		desc. node	2812 May 13 23:56	21° \mathcal{B} 00'54	
direct	2811 Jun 14 10:42	6° Π 57'38		min. Earth dist.	2812 May 14 18:10	20° \mathcal{B} 31'50	0.55979 AU
morning max el	2811 Jun 27 19:17	13° Π 25'41	23°20'06	morning rise	2812 May 20 14:59	17° \mathcal{B} 32'10	
	2811 Jul 10 11:10	0° \mathcal{E}		direct	2812 May 25 06:46	16° \mathcal{B} 42'50	
asc. node	2811 Jul 17 07:48	12° \mathcal{E} 33'14		morning max el	2812 Jun 08 09:40	23° \mathcal{B} 51'58	25°01'23
morning set	2811 Jul 21 03:39	20° \mathcal{E} 23'55			2812 Jun 13 23:19	0° Π	
	2811 Jul 25 15:21	0° \mathcal{O}			2812 Jul 02 01:58	0° \mathcal{E}	
				asc. node	2812 Jul 03 04:51	2° \mathcal{E} 18'09	
superior conj	2811 Jul 28 04:55	5° \mathcal{O} 31'37	1°32'40	morning set	2812 Jul 04 15:26	5° \mathcal{E} 19'12	
minimum elong	2811 Jul 28 02:51	5° \mathcal{O} 20'31	1°32'28				
max. Earth dist.	2811 Jul 30 17:29	10° \mathcal{O} 53'59	1.33607 AU	superior conj	2812 Jul 11 14:36	20° \mathcal{E} 24'59	1°18'16
evening rise	2811 Aug 04 19:22	21° \mathcal{O} 19'50		minimum elong	2812 Jul 11 12:13	20° \mathcal{E} 12'01	1°17'56
	2811 Aug 09 07:09	0° \mathcal{N}		max. Earth dist.	2812 Jul 12 23:05	23° \mathcal{E} 21'54	1.32717 AU
desc. node	2811 Aug 24 02:18	24° \mathcal{N} 35'01			2812 Jul 16 01:12	0° \mathcal{O}	
	2811 Aug 27 23:00	0° \mathcal{A}		evening rise	2812 Jul 18 18:39	5° \mathcal{O} 41'30	
evening max el	2811 Sep 07 22:41	12° \mathcal{A} 47'10	27°20'37		2812 Jul 31 21:26	0° \mathcal{N}	
retrograde	2811 Sep 21 10:44	20° \mathcal{A} 05'36		desc. node	2812 Aug 09 23:17	13° \mathcal{N} 38'47	
evening set	2811 Sep 28 12:24	17° \mathcal{A} 23'38		evening max el	2812 Aug 20 08:05	25° \mathcal{N} 42'21	27°23'39
min. Earth dist.	2811 Oct 02 06:16	13° \mathcal{A} 56'54	0.64393 AU		2812 Aug 25 15:23	0° \mathcal{A}	
inferior conj	2811 Oct 04 14:51	11° \mathcal{A} 25'51	-2°47'59	retrograde	2812 Sep 03 02:35	2° \mathcal{A} 58'48	
minimum elong	2811 Oct 04 19:23	11° \mathcal{A} 13'44	2°46'22	evening set	2812 Sep 10 07:24	0° \mathcal{A} 28'12	
morning rise	2811 Oct 11 03:29	5° \mathcal{A} 59'55			2812 Sep 10 23:08	30° \mathcal{R} \mathcal{N}	
asc. node	2811 Oct 13 06:58	5° \mathcal{A} 26'49		min. Earth dist.	2812 Sep 13 21:48	27° \mathcal{N} 31'02	0.62668 AU
direct	2811 Oct 13 17:24	5° \mathcal{A} 25'50		inferior conj	2812 Sep 16 18:19	24° \mathcal{N} 47'20	-3°44'09
morning max el	2811 Oct 20 05:34	8° \mathcal{A} 52'13	17°57'14	minimum elong	2812 Sep 16 23:51	24° \mathcal{N} 34'05	3°42'35
	2811 Nov 03 11:35	0° \mathcal{M}		morning rise	2812 Sep 23 17:49	19° \mathcal{N} 39'29	
morning set	2811 Nov 06 11:44	5° \mathcal{M} 05'37		direct	2812 Sep 26 04:01	19° \mathcal{N} 12'41	
				asc. node	2812 Sep 29 04:02	19° \mathcal{N} 54'49	
superior conj	2811 Nov 19 18:51	27° \mathcal{M} 08'22	0°01'56	morning max el	2812 Oct 02 21:37	22° \mathcal{N} 39'32	17°51'16
minimum elong	2811 Nov 19 19:04	27° \mathcal{M} 09'17	0°01'54		2812 Oct 08 14:52	0° \mathcal{A}	
behind sun begin	2811 Nov 19 08:51	26° \mathcal{M} 27'59		morning set	2812 Oct 19 00:36	17° \mathcal{A} 44'40	
behind sun end	2811 Nov 20 05:18	27° \mathcal{M} 50'30			2812 Oct 25 23:34	0° \mathcal{M}	
desc. node	2811 Nov 20 01:37	27° \mathcal{M} 35'41					
	2811 Nov 21 13:33	0° \mathcal{X}		superior conj	2812 Oct 30 09:39	7° \mathcal{M} 33'51	0°44'00
max. Earth dist.	2811 Nov 24 16:04	4° \mathcal{X} 56'46	1.44663 AU	minimum elong	2812 Oct 30 13:32	7° \mathcal{M} 50'12	0°43'28
evening rise	2811 Dec 05 23:46	22° \mathcal{X} 36'11		desc. node	2812 Nov 05 22:38	18° \mathcal{M} 22'55	
	2811 Dec 10 19:36	0° \mathcal{Z}		max. Earth dist.	2812 Nov 06 07:21	18° \mathcal{M} 58'13	1.43476 AU
greatest brilliancy	2811 Dec 20 09:56	14° \mathcal{Z} 25'32	-0.6m		2812 Nov 13 06:02	0° \mathcal{X}	
	2812 Jan 01 01:53	0° \mathcal{A}		evening rise	2812 Nov 14 09:03	1° \mathcal{X} 45'04	
evening max el	2812 Jan 01 22:20	0° \mathcal{A} 54'16	20°12'19		2812 Dec 03 09:28	0° \mathcal{Z}	
asc. node	2812 Jan 09 06:13	5° \mathcal{A} 27'52		evening max el	2812 Dec 14 20:51	14° \mathcal{Z} 25'40	21°21'01
retrograde	2812 Jan 09 17:42	5° \mathcal{A} 29'08		retrograde	2812 Dec 23 15:16	19° \mathcal{Z} 38'06	
evening set	2812 Jan 13 11:50	4° \mathcal{A} 07'05		asc. node	2812 Dec 26 03:15	19° \mathcal{Z} 03'44	
	2812 Jan 17 10:12	30° \mathcal{R} \mathcal{Z}		evening set	2812 Dec 27 19:24	18° \mathcal{Z} 00'46	
inferior conj	2812 Jan 18 21:39	28° \mathcal{Z} 02'22	2°50'14	inferior conj	2813 Jan 02 03:52	11° \mathcal{Z} 45'53	2°12'59
minimum elong	2812 Jan 18 19:06	28° \mathcal{Z} 10'59	2°49'34	minimum elong	2813 Jan 02 01:26	11° \mathcal{Z} 54'20	2°12'10
min. Earth dist.	2812 Jan 19 16:38	26° \mathcal{Z} 58'16	0.67152 AU	min. Earth dist.	2813 Jan 02 10:37	11° \mathcal{Z} 22'32	0.67711 AU
morning rise	2812 Jan 24 02:10	21° \mathcal{Z} 48'45		morning rise	2813 Jan 07 07:16	5° \mathcal{Z} 33'13	
direct	2812 Jan 29 20:47	19° \mathcal{Z} 14'15		direct	2813 Jan 12 11:08	3° \mathcal{Z} 18'38	
morning max el	2812 Feb 10 11:37	26° \mathcal{Z} 10'39	24°51'25	morning max el	2813 Jan 22 20:21	9° \mathcal{Z} 29'23	23°23'09
	2812 Feb 14 00:14	0° \mathcal{A}		desc. node	2813 Feb 01 21:49	21° \mathcal{Z} 32'45	
desc. node	2812 Feb 16 00:47	2° \mathcal{A} 23'43			2813 Feb 07 23:59	0° \mathcal{A}	
	2812 Mar 06 11:19	0° \mathcal{X}		morning set	2813 Feb 26 22:00	29° \mathcal{A} 30'04	
morning set	2812 Mar 17 14:25	18° \mathcal{X} 40'56			2813 Feb 27 05:06	0° \mathcal{X}	
max. Earth dist.	2812 Mar 21 05:50	25° \mathcal{X} 15'59	1.37068 AU	max. Earth dist.	2813 Mar 03 00:29	6° \mathcal{X} 32'13	1.39197 AU
	2812 Mar 23 18:45	0° \mathcal{Y}					
				superior conj	2813 Mar 10 14:24	20° \mathcal{X} 12'38	-1°49'04
superior conj	2812 Mar 27 17:49	7° \mathcal{Y} 36'54	-1°26'33	minimum elong	2813 Mar 10 18:45	20° \mathcal{X} 32'50	1°48'40
minimum elong	2812 Mar 27 22:02	7° \mathcal{Y} 57'34	1°25'58		2813 Mar 15 18:24	0° \mathcal{Y}	
evening rise	2812 Apr 05 04:28	24° \mathcal{Y} 28'01		evening rise	2813 Mar 19 22:58	8° \mathcal{Y} 05'52	
asc. node	2812 Apr 06 05:35	26° \mathcal{Y} 33'17		asc. node	2813 Mar 24 02:35	16° \mathcal{Y} 01'03	
	2812 Apr 07 23:31	0° \mathcal{B}			2813 Apr 01 12:53	0° \mathcal{B}	
evening max el	2812 Apr 22 04:24	22° \mathcal{B} 02'16	19°25'24	evening max el	2813 Apr 05 05:25	4° \mathcal{B} 19'02	18°39'28
retrograde	2812 May 01 12:31	26° \mathcal{B} 33'41		retrograde	2813 Apr 13 03:17	8° \mathcal{B} 11'16	
evening set	2812 May 03 13:14	26° \mathcal{B} 21'48		evening set	2813 Apr 15 09:50	7° \mathcal{B} 53'16	

inferior conj	2813 Apr 23 02:59	3°♄28'57	2°05'16	evening set	2814 Mar 29 01:44	20°♃08'26	
minimum elong	2813 Apr 23 06:47	3°♄21'45	2°04'10	inferior conj	2814 Apr 05 01:01	15°♃23'06	3°04'18
min. Earth dist.	2813 Apr 26 11:43	0°♄57'13	0.57687 AU	minimum elong	2814 Apr 05 04:17	15°♃15'51	3°03'39
	2813 Apr 27 20:46	30°♄		min. Earth dist.	2814 Apr 08 10:17	12°♃24'41	0.59786 AU
desc. node	2813 Apr 30 20:58	28°♃16'22		morning rise	2814 Apr 12 04:28	9°♃40'48	
morning rise	2813 May 01 00:35	28°♃12'08		desc. node	2814 Apr 17 18:01	7°♃46'30	
direct	2813 May 06 17:03	26°♃51'32		direct	2814 Apr 18 15:53	7°♃44'13	
	2813 May 15 16:36	0°♄		morning max el	2814 May 02 23:42	15°♃33'24	27°27'37
morning max el	2813 May 21 01:48	4°♄26'28	26°28'34		2814 May 14 17:36	0°♄	
	2813 Jun 08 15:49	0°♄			2814 Jun 01 01:20	0°♄	
morning set	2813 Jun 19 02:08	20°♄09'52		morning set	2814 Jun 03 10:04	4°♄50'24	
asc. node	2813 Jun 20 01:53	22°♄15'40		asc. node	2814 Jun 06 22:55	12°♄20'55	
	2813 Jun 23 15:38	0°♄		max. Earth dist.	2814 Jun 09 21:49	18°♄47'53	1.32130 AU
superior conj	2813 Jun 26 02:07	5°♄21'39	0°59'36	superior conj	2814 Jun 10 13:46	20°♄15'36	0°37'22
minimum elong	2813 Jun 25 23:55	5°♄09'33	0°59'13	minimum elong	2814 Jun 10 12:11	20°♄06'55	0°37'03
max. Earth dist.	2813 Jun 26 09:44	6°♄03'32	1.32227 AU		2814 Jun 15 00:19	0°♄	
evening rise	2813 Jul 03 00:18	20°♄20'40		evening rise	2814 Jun 17 09:58	5°♄09'24	
	2813 Jul 07 18:49	0°♄			2814 Jun 30 13:09	0°♄	
	2813 Jul 26 08:46	0°♄		desc. node	2814 Jul 14 17:18	18°♄46'15	
desc. node	2813 Jul 27 20:17	1°♄49'53		evening max el	2814 Jul 15 10:08	19°♄27'09	25°51'44
evening max el	2813 Aug 02 12:40	7°♄58'36	26°53'47	retrograde	2814 Jul 29 09:52	26°♄35'39	
retrograde	2813 Aug 16 10:53	15°♄11'03		evening set	2814 Aug 04 13:57	25°♄04'55	
evening set	2813 Aug 23 09:32	13°♄04'59		min. Earth dist.	2814 Aug 08 22:27	22°♄27'40	0.58629 AU
min. Earth dist.	2813 Aug 27 02:52	10°♄26'08	0.60691 AU	inferior conj	2814 Aug 12 04:25	20°♄05'52	-5°00'05
inferior conj	2813 Aug 30 08:03	7°♄44'11	-4°31'18	minimum elong	2814 Aug 12 06:36	20°♄01'52	4°59'57
minimum elong	2813 Aug 30 13:09	7°♄33'27	4°30'23	morning rise	2814 Aug 20 01:29	15°♄42'06	
morning rise	2813 Sep 06 18:37	2°♄57'21		direct	2814 Aug 22 13:08	15°♄21'58	
direct	2813 Sep 09 04:04	2°♄34'58		morning max el	2814 Aug 30 17:29	19°♄16'08	18°37'36
asc. node	2813 Sep 16 01:05	5°♄47'56		asc. node	2814 Sep 02 22:09	22°♄50'50	
morning max el	2813 Sep 16 10:41	6°♄10'37	18°04'16		2814 Sep 07 17:30	0°♄	
	2813 Oct 01 14:46	0°♄		morning set	2814 Sep 15 23:37	15°♄13'01	
morning set	2813 Oct 02 06:13	1°♄11'58			2814 Sep 23 15:33	0°♄	
superior conj	2813 Oct 12 02:54	19°♄16'53	1°14'58	superior conj	2814 Sep 24 17:52	2°♄03'56	1°34'24
minimum elong	2813 Oct 12 07:09	19°♄35'49	1°14'30	minimum elong	2814 Sep 24 20:45	2°♄17'27	1°34'12
	2813 Oct 18 07:03	0°♄		max. Earth dist.	2814 Oct 02 00:09	15°♄14'39	1.39765 AU
max. Earth dist.	2813 Oct 19 18:05	2°♄27'31	1.41774 AU	evening rise	2814 Oct 06 02:54	22°♄18'46	
desc. node	2813 Oct 23 19:38	9°♄09'16		desc. node	2814 Oct 10 16:38	29°♄50'44	
evening rise	2813 Oct 25 06:52	11°♄31'21			2814 Oct 10 18:56	0°♄	
	2813 Nov 06 06:57	0°♄			2814 Oct 31 06:39	0°♄	
evening max el	2813 Nov 27 14:18	27°♄59'22	22°38'06	evening max el	2814 Nov 10 04:04	11°♄35'44	23°58'03
	2813 Nov 29 17:21	0°♄		retrograde	2814 Nov 21 02:59	18°♄02'21	
retrograde	2813 Dec 07 10:47	3°♄50'30		evening set	2814 Nov 26 08:20	15°♄51'48	
evening set	2813 Dec 12 02:46	1°♄56'42		asc. node	2814 Nov 29 21:21	11°♄58'37	
asc. node	2813 Dec 13 00:17	1°♄08'09		min. Earth dist.	2814 Dec 01 03:25	10°♄18'46	0.67751 AU
	2813 Dec 14 02:00	30°♄		inferior conj	2814 Dec 01 18:34	9°♄27'26	0°38'31
inferior conj	2813 Dec 17 11:27	25°♄35'10	1°28'40	minimum elong	2814 Dec 01 17:40	9°♄30'31	0°38'08
minimum elong	2813 Dec 17 09:34	25°♄41'40	1°27'56	morning rise	2814 Dec 07 03:00	3°♄22'32	
min. Earth dist.	2813 Dec 17 07:00	25°♄50'32	0.67905 AU	direct	2814 Dec 11 02:15	1°♄53'18	
morning rise	2813 Dec 22 16:14	19°♄25'22		morning max el	2814 Dec 19 03:43	6°♄31'44	20°37'44
direct	2813 Dec 27 05:19	17°♄33'33			2815 Jan 05 18:25	0°♄	
morning max el	2814 Jan 05 08:37	22°♄55'16	21°56'12	desc. node	2815 Jan 06 15:54	1°♄19'53	
	2814 Jan 11 11:56	0°♄		morning set	2815 Jan 17 02:44	17°♄15'12	
desc. node	2814 Jan 19 18:52	11°♄14'40			2815 Jan 25 04:22	0°♄	
	2814 Feb 01 08:52	0°♄		max. Earth dist.	2815 Jan 26 04:39	1°♄37'55	1.43178 AU
morning set	2814 Feb 07 00:43	8°♄55'40		superior conj	2815 Feb 01 17:56	12°♄24'31	-2°04'43
max. Earth dist.	2814 Feb 12 22:47	18°♄37'03	1.41334 AU	minimum elong	2815 Feb 01 15:42	12°♄15'10	2°04'40
	2814 Feb 19 14:33	0°♄			2815 Feb 11 23:32	0°♄	
superior conj	2814 Feb 20 16:10	1°♄52'34	-2°03'26	evening rise	2815 Feb 13 21:24	3°♄22'04	
minimum elong	2814 Feb 20 18:35	2°♄03'15	2°03'21	asc. node	2815 Feb 25 20:38	23°♄37'43	
evening rise	2814 Mar 03 05:59	21°♄06'53			2815 Mar 02 20:26	0°♄	
	2814 Mar 08 02:10	0°♄		evening max el	2815 Mar 03 01:17	0°♄12'11	18°07'25
asc. node	2814 Mar 10 23:36	5°♄05'05		retrograde	2815 Mar 09 13:49	3°♄35'28	
evening max el	2814 Mar 19 13:30	17°♄05'24	18°13'36	evening set	2815 Mar 12 08:08	2°♄58'23	
retrograde	2814 Mar 26 12:55	20°♄35'17			2815 Mar 16 13:10	30°♄	

inferior conj	2815 Mar 18 17:22	27° H 52'28	3°33'48	minimum elong	2816 Jan 12 09:50	21° Z 15'23	1°47'30
minimum elong	2815 Mar 18 18:50	27° H 48'42	3°33'40		2816 Jan 17 19:40	0° \approx	
min. Earth dist.	2815 Mar 21 16:48	24° H 52'09	0.61926 AU	evening rise	2816 Jan 26 16:50	14° \approx 43'15	
morning rise	2815 Mar 25 04:06	21° H 54'12			2816 Feb 04 20:45	0° H	
direct	2815 Apr 01 00:59	19° H 26'30		asc. node	2816 Feb 12 17:41	11° H 28'54	
desc. node	2815 Apr 04 15:03	20° H 03'03		evening max el	2816 Feb 14 13:51	13° H 31'28	18°20'13
morning max el	2815 Apr 15 03:59	27° H 22'59	27°50'30	retrograde	2816 Feb 21 01:08	17° H 01'19	
	2815 Apr 17 15:50	0° Y		evening set	2816 Feb 24 00:53	16° H 13'02	
	2815 May 08 09:42	0° Z		inferior conj	2816 Feb 29 23:51	10° H 48'07	3°40'35
morning set	2815 May 18 13:17	19° Z 14'40		minimum elong	2816 Feb 29 23:31	10° H 49'03	3°40'35
	2815 May 23 16:13	0° II		min. Earth dist.	2816 Mar 03 08:47	8° H 06'57	0.63867 AU
max. Earth dist.	2815 May 24 07:25	1° II 22'01	1.32428 AU	morning rise	2816 Mar 06 21:23	4° H 41'04	
asc. node	2815 May 24 19:57	2° II 29'51		direct	2816 Mar 13 18:37	1° H 54'15	
				desc. node	2816 Mar 21 12:06	4° H 43'41	
superior conj	2815 May 25 23:50	5° II 01'26	0°12'14	morning max el	2816 Mar 27 12:28	9° H 50'09	27°36'13
minimum elong	2815 May 25 23:16	4° II 58'20	0°12'06		2816 Apr 12 07:13	0° Y	
behind sun begin	2815 May 25 19:55	4° II 40'03			2816 Apr 29 17:44	0° Z	
behind sun end	2815 May 26 02:37	5° II 16'37		morning set	2816 May 01 09:13	3° Z 13'33	
evening rise	2815 Jun 01 21:36	20° II 01'02		max. Earth dist.	2816 May 06 10:17	13° Z 31'11	1.33147 AU
	2815 Jun 06 18:20	0° S					
	2815 Jun 26 19:34	0° Ω		superior conj	2816 May 09 06:25	19° Z 32'05	-0°15'05
evening max el	2815 Jun 27 01:02	0° Ω 13'15	24°25'26	minimum elong	2816 May 09 07:10	19° Z 36'06	0°14'56
desc. node	2815 Jul 01 14:19	3° Ω 58'26		behind sun begin	2816 May 09 05:17	19° Z 26'01	
retrograde	2815 Jul 10 22:01	7° Ω 13'49		behind sun end	2816 May 09 09:03	19° Z 46'12	
evening set	2815 Jul 15 18:35	6° Ω 21'01		asc. node	2816 May 10 16:59	22° Z 37'29	
min. Earth dist.	2815 Jul 21 11:56	3° Ω 27'11	0.56750 AU		2816 May 14 03:12	0° II	
inferior conj	2815 Jul 24 04:50	1° Ω 44'14	-4°56'48	evening rise	2816 May 16 09:15	4° II 47'58	
minimum elong	2815 Jul 24 01:39	1° Ω 49'19	4°56'32		2816 May 30 00:33	0° S	
	2815 Jul 27 00:50	30° R S		evening max el	2816 Jun 07 14:52	10° S 40'04	22°49'08
morning rise	2815 Aug 01 11:24	27° S 41'30		desc. node	2816 Jun 17 11:21	16° S 50'04	
direct	2815 Aug 04 03:18	27° S 22'19		retrograde	2816 Jun 20 21:53	17° S 17'07	
	2815 Aug 11 11:17	0° Ω		evening set	2816 Jun 24 06:15	16° S 52'29	
morning max el	2815 Aug 13 15:05	1° Ω 47'19	19°32'16	min. Earth dist.	2816 Jul 01 23:22	13° S 28'05	0.55397 AU
asc. node	2815 Aug 20 19:12	10° Ω 48'51		inferior conj	2816 Jul 03 10:13	12° S 37'58	-4°07'36
morning set	2815 Aug 31 01:10	29° Ω 38'00		minimum elong	2816 Jul 03 02:28	12° S 49'09	4°05'53
	2815 Aug 31 05:33	0° P		morning rise	2816 Jul 12 01:01	8° S 46'13	
				direct	2816 Jul 14 22:51	8° S 26'28	
superior conj	2815 Sep 08 01:03	15° P 39'37	1°43'43	morning max el	2816 Jul 26 01:19	13° S 35'28	20°48'02
minimum elong	2815 Sep 08 02:07	15° P 44'52	1°43'41	asc. node	2816 Aug 06 16:15	29° S 28'31	
max. Earth dist.	2815 Sep 14 04:16	27° P 23'03	1.37708 AU		2816 Aug 06 23:22	0° Ω	
	2815 Sep 15 14:27	0° Ω		morning set	2816 Aug 14 08:05	14° Ω 18'39	
evening rise	2815 Sep 17 22:28	4° Ω 11'50					
desc. node	2815 Sep 27 13:40	20° Ω 23'24		superior conj	2816 Aug 21 19:42	29° Ω 49'19	1°44'39
	2815 Oct 03 19:49	0° M		minimum elong	2816 Aug 21 19:11	29° Ω 46'36	1°44'37
evening max el	2815 Oct 23 16:12	25° M 15'20	25°14'11		2816 Aug 21 21:47	0° P	
	2815 Oct 29 10:10	0° Z		max. Earth dist.	2816 Aug 26 12:07	9° P 13'20	1.35838 AU
retrograde	2815 Nov 04 15:02	2° Z 09'38		evening rise	2816 Aug 30 14:02	17° P 01'38	
evening set	2815 Nov 10 10:27	29° M 43'44			2816 Sep 06 20:51	0° Ω	
	2815 Nov 10 02:36	30° R M		desc. node	2816 Sep 13 10:42	10° Ω 41'43	
min. Earth dist.	2815 Nov 14 21:35	24° M 45'07	0.67258 AU		2816 Sep 27 04:23	0° M	
inferior conj	2815 Nov 15 23:30	23° M 20'47	-0°16'16	evening max el	2816 Oct 05 04:23	8° M 55'25	26°19'13
minimum elong	2815 Nov 15 23:55	23° M 19'27	0°16'05	retrograde	2816 Oct 17 22:14	16° M 06'36	
transit middle	2815 Nov 15 23:55	23° M 19'27	0°16'05	evening set	2816 Oct 24 07:15	13° M 29'05	
transit begin	2815 Nov 15 23:35	23° M 20'31		min. Earth dist.	2816 Oct 28 11:10	9° M 06'08	0.66418 AU
transit end	2815 Nov 16 00:15	23° M 18'22		inferior conj	2816 Oct 30 00:22	7° M 12'14	-1°14'19
asc. node	2815 Nov 16 18:25	22° M 19'37		minimum elong	2816 Oct 30 02:22	7° M 06'08	1°13'28
morning rise	2815 Nov 21 13:36	17° M 23'01		asc. node	2816 Nov 02 15:28	3° M 08'20	
direct	2815 Nov 25 00:39	16° M 13'57		morning rise	2816 Nov 04 21:59	1° M 24'12	
morning max el	2815 Dec 02 06:47	20° M 19'23	19°32'15	direct	2816 Nov 07 22:57	0° M 31'42	
	2815 Dec 10 01:29	0° Z		morning max el	2816 Nov 14 16:42	4° M 14'47	18°42'11
greatest brilliancy	2815 Dec 15 12:40	7° Z 58'05	-0.7m		2816 Dec 02 15:42	0° Z	
desc. node	2815 Dec 24 12:56	21° Z 42'03		morning set	2816 Dec 05 16:55	4° Z 49'41	
morning set	2815 Dec 27 00:04	25° Z 30'19		desc. node	2816 Dec 10 09:59	12° Z 16'27	
	2815 Dec 29 21:40	0° Z					
max. Earth dist.	2816 Jan 08 17:23	15° Z 23'18	1.44497 AU	superior conj	2816 Dec 21 22:13	0° Z 21'57	-1°12'40
				minimum elong	2816 Dec 21 13:45	29° Z 48'41	1°11'41
superior conj	2816 Jan 12 17:32	21° Z 46'13	-1°48'05	max. Earth dist.	2816 Dec 21 10:42	29° Z 36'46	1.45144 AU

	2816 Dec 21 16:38	0°♄		max. Earth dist.	2817 Dec 04 05:57	14°♄01'03	1.45053 AU
evening rise	2817 Jan 06 13:15	25°♄07'13			2817 Dec 14 11:29	0°♄	
	2817 Jan 09 14:15	0°♄		evening rise	2817 Dec 17 11:43	4°♄40'22	
greatest brilliancy	2817 Jan 14 03:06	7°♄15'50	-0.9m	greatest brilliancy	2817 Dec 30 06:31	24°♄19'13	-0.7m
evening max el	2817 Jan 28 00:42	26°♄58'12	18°51'01		2818 Jan 03 02:59	0°♄	
asc. node	2817 Jan 29 14:44	28°♄26'58		evening max el	2818 Jan 11 07:43	10°♄28'05	19°38'25
	2817 Jan 31 21:20	0°♄		asc. node	2818 Jan 16 11:46	14°♄17'18	
retrograde	2817 Feb 03 18:54	0°♄45'49		retrograde	2818 Jan 18 15:56	14°♄43'02	
	2817 Feb 06 14:37	30°♄		evening set	2818 Jan 22 05:13	13°♄29'08	
evening set	2817 Feb 07 00:46	29°♄45'20		inferior conj	2818 Jan 27 16:39	7°♄31'59	3°07'51
inferior conj	2817 Feb 12 16:41	24°♄03'12	3°30'32	minimum elong	2818 Jan 27 14:16	7°♄39'50	3°07'20
minimum elong	2817 Feb 12 15:02	24°♄08'20	3°30'20	min. Earth dist.	2818 Jan 28 19:22	6°♄04'05	0.66663 AU
min. Earth dist.	2817 Feb 14 10:04	21°♄55'14	0.65468 AU	morning rise	2818 Feb 01 23:05	1°♄18'52	
morning rise	2817 Feb 18 04:54	17°♄51'52			2818 Feb 03 15:31	30°♄	
direct	2817 Feb 24 19:20	15°♄00'21		direct	2818 Feb 08 01:49	28°♄35'29	
desc. node	2817 Mar 08 09:08	21°♄13'41			2818 Feb 12 23:19	0°♄	
morning max el	2817 Mar 09 22:15	22°♄43'53	26°49'36	morning max el	2818 Feb 20 07:20	5°♄52'19	25°38'57
	2817 Mar 16 08:30	0°♄		desc. node	2818 Feb 23 06:11	9°♄02'06	
	2817 Apr 05 13:48	0°♄			2818 Mar 10 22:50	0°♄	
morning set	2817 Apr 14 18:40	16°♄37'18		morning set	2818 Mar 28 13:17	29°♄12'57	
max. Earth dist.	2817 Apr 19 02:45	25°♄06'49	1.34323 AU		2818 Mar 28 23:34	0°♄	
	2817 Apr 21 12:33	0°♄		max. Earth dist.	2818 Apr 01 07:40	6°♄14'15	1.35958 AU
superior conj	2817 Apr 23 07:25	3°♄41'21	-0°43'29	superior conj	2818 Apr 07 00:11	17°♄21'28	-1°11'28
minimum elong	2817 Apr 23 09:39	3°♄53'01	0°43'02	minimum elong	2818 Apr 07 03:49	17°♄39'44	1°10'52
asc. node	2817 Apr 27 14:02	12°♄39'58			2818 Apr 13 05:11	0°♄	
evening rise	2817 Apr 30 19:04	19°♄24'21		asc. node	2818 Apr 14 11:04	2°♄32'48	
	2817 May 06 01:31	0°♄		evening rise	2818 Apr 15 00:57	3°♄43'33	
evening max el	2817 May 20 11:27	21°♄20'23	21°17'37		2818 Apr 30 09:47	0°♄	
retrograde	2817 Jun 01 11:46	27°♄13'13		evening max el	2818 May 02 19:22	2°♄35'25	20°00'53
evening set	2817 Jun 03 19:07	27°♄00'59		retrograde	2818 May 13 02:31	7°♄35'07	
desc. node	2817 Jun 04 08:21	26°♄54'34		evening set	2818 May 15 02:24	7°♄24'42	
inferior conj	2817 Jun 13 04:30	23°♄01'58	-2°31'41	desc. node	2818 May 22 05:21	4°♄30'27	
minimum elong	2817 Jun 12 21:39	23°♄11'34	2°29'25	inferior conj	2818 May 24 01:34	3°♄24'58	-0°32'27
min. Earth dist.	2817 Jun 13 11:10	22°♄52'37	0.54876 AU	minimum elong	2818 May 24 00:04	3°♄27'14	0°31'53
morning rise	2817 Jun 22 00:35	19°♄03'50		min. Earth dist.	2818 May 26 00:08	2°♄14'58	0.55316 AU
direct	2817 Jun 25 08:54	18°♄39'32			2818 May 30 05:34	30°♄	
morning max el	2817 Jul 08 00:21	24°♄39'38	22°21'25	morning rise	2818 Jun 01 19:51	29°♄02'01	
	2817 Jul 12 21:33	0°♄		direct	2818 Jun 05 22:18	28°♄25'15	
asc. node	2817 Jul 24 13:17	18°♄39'46			2818 Jun 12 10:32	0°♄	
morning set	2817 Jul 29 18:15	29°♄09'12		morning max el	2818 Jun 19 16:00	5°♄12'01	24°03'55
	2817 Jul 30 03:57	0°♄			2818 Jul 07 04:30	0°♄	
				asc. node	2818 Jul 11 10:20	8°♄14'32	
superior conj	2817 Aug 05 22:14	14°♄22'24	1°38'42	morning set	2818 Jul 14 05:57	14°♄04'38	
minimum elong	2817 Aug 05 20:35	14°♄13'38	1°38'35				
max. Earth dist.	2817 Aug 09 04:30	21°♄11'21	1.34312 AU	superior conj	2818 Jul 21 05:57	29°♄10'37	1°27'07
evening rise	2817 Aug 13 21:03	0°♄36'07		minimum elong	2818 Jul 21 03:41	28°♄58'23	1°26'52
	2817 Aug 13 13:39	0°♄			2818 Jul 21 15:05	0°♄	
	2817 Aug 30 21:25	0°♄		max. Earth dist.	2818 Jul 23 06:06	3°♄29'54	1.33182 AU
desc. node	2817 Aug 31 07:43	0°♄38'49		evening rise	2818 Jul 28 15:24	14°♄43'50	
evening max el	2817 Sep 17 16:51	22°♄28'04	27°05'26		2818 Aug 05 15:48	0°♄	
retrograde	2817 Sep 30 23:47	29°♄45'30		desc. node	2818 Aug 18 04:42	20°♄05'55	
evening set	2817 Oct 07 20:25	27°♄02'53			2818 Aug 25 19:43	0°♄	
min. Earth dist.	2817 Oct 11 17:44	23°♄15'56	0.65231 AU	evening max el	2818 Aug 31 04:11	5°♄41'39	27°25'48
inferior conj	2817 Oct 13 19:00	20°♄56'53	-2°13'56	retrograde	2818 Sep 13 19:07	12°♄58'40	
minimum elong	2817 Oct 13 22:39	20°♄46'32	2°12'31	evening set	2818 Sep 20 23:05	10°♄20'15	
morning rise	2817 Oct 20 01:44	15°♄21'40		min. Earth dist.	2818 Sep 24 15:08	7°♄06'57	0.63701 AU
asc. node	2817 Oct 20 12:30	15°♄09'42		inferior conj	2818 Sep 27 04:53	4°♄29'28	-3°12'27
direct	2817 Oct 22 19:00	14°♄41'51		minimum elong	2818 Sep 27 09:57	4°♄16'30	3°10'48
morning max el	2817 Oct 29 07:12	18°♄11'53	18°08'39		2818 Oct 02 07:55	30°♄	
	2817 Nov 07 01:04	0°♄		morning rise	2818 Oct 03 22:02	29°♄10'35	
morning set	2817 Nov 16 15:03	15°♄37'07		direct	2818 Oct 06 10:09	28°♄39'50	
	2817 Nov 25 10:34	0°♄		asc. node	2818 Oct 07 09:32	28°♄44'35	
desc. node	2817 Nov 27 07:01	2°♄58'31			2818 Oct 10 11:02	0°♄	
				morning max el	2818 Oct 12 23:34	2°♄05'13	17°52'26
superior conj	2817 Dec 01 02:36	9°♄03'26	-0°25'39	morning set	2818 Oct 29 15:40	27°♄41'39	
minimum elong	2817 Nov 30 23:20	8°♄50'31	0°25'12		2818 Oct 30 23:41	0°♄	

superior conj	2818 Nov 11 02:10	18° \mathbb{M} 44'04	0°20'58	max. Earth dist.	2819 Oct 30 13:50	12° \mathbb{M} 08'43	1.42808 AU
minimum elong	2818 Nov 11 04:23	18° \mathbb{M} 53'11	0°20'38	desc. node	2819 Nov 01 01:03	14° \mathbb{M} 32'16	
desc. node	2818 Nov 14 04:03	23° \mathbb{M} 45'02		evening rise	2819 Nov 06 10:15	23° \mathbb{M} 07'43	
max. Earth dist.	2818 Nov 17 00:06	28° \mathbb{M} 18'22	1.44241 AU		2819 Nov 10 20:34	0° \mathbb{M}	
	2818 Nov 18 01:37	0° \mathbb{M}			2819 Dec 01 19:02	0° \mathbb{B}	
evening rise	2818 Nov 26 21:26	13° \mathbb{M} 47'36		evening max el	2819 Dec 08 05:39	7° \mathbb{B} 30'59	21°53'00
	2818 Dec 07 14:11	0° \mathbb{B}		retrograde	2819 Dec 17 10:55	13° \mathbb{B} 00'17	
evening max el	2818 Dec 25 09:31	23° \mathbb{B} 59'13	20°40'10	asc. node	2819 Dec 21 05:49	11° \mathbb{B} 42'22	
retrograde	2819 Jan 02 13:56	28° \mathbb{B} 49'08		evening set	2819 Dec 21 19:56	11° \mathbb{B} 15'50	
asc. node	2819 Jan 03 08:47	28° \mathbb{B} 45'43		inferior conj	2819 Dec 27 04:17	4° \mathbb{B} 57'25	1°54'58
evening set	2819 Jan 06 12:12	27° \mathbb{B} 20'32		minimum elong	2819 Dec 27 02:02	5° \mathbb{B} 05'14	1°54'09
inferior conj	2819 Jan 11 21:14	21° \mathbb{B} 11'02	2°35'22	min. Earth dist.	2819 Dec 27 06:06	4° \mathbb{B} 51'09	0.67836 AU
minimum elong	2819 Jan 11 18:40	21° \mathbb{B} 19'48	2°34'36		2819 Dec 31 01:21	30° \mathbb{R} \mathbb{M}	
min. Earth dist.	2819 Jan 12 10:46	20° \mathbb{B} 24'44	0.67445 AU	morning rise	2820 Jan 01 08:00	28° \mathbb{M} 45'46	
morning rise	2819 Jan 17 00:58	14° \mathbb{B} 57'52		direct	2820 Jan 06 05:23	26° \mathbb{M} 41'00	
direct	2819 Jan 22 13:25	12° \mathbb{B} 31'28			2820 Jan 13 08:26	0° \mathbb{B}	
morning max el	2819 Feb 02 15:49	19° \mathbb{B} 08'40	24°14'14	morning max el	2820 Jan 16 01:50	2° \mathbb{B} 30'54	22°45'31
desc. node	2819 Feb 10 03:15	27° \mathbb{B} 46'35		desc. node	2820 Jan 28 00:18	17° \mathbb{B} 11'01	
	2819 Feb 11 20:35	0° \approx			2820 Feb 05 22:01	0° \approx	
	2819 Mar 04 02:10	0° \mathbb{H}		morning set	2820 Feb 19 07:10	21° \approx 00'17	
morning set	2819 Mar 10 11:27	10° \mathbb{H} 45'35		max. Earth dist.	2820 Feb 24 00:10	28° \approx 54'34	1.40120 AU
max. Earth dist.	2819 Mar 14 04:31	17° \mathbb{H} 19'05	1.37961 AU		2820 Feb 24 15:25	0° \mathbb{H}	
superior conj	2819 Mar 21 05:20	0° \mathbb{Y} 23'40	-1°36'51	superior conj	2820 Mar 02 18:34	12° \mathbb{H} 37'19	-1°56'26
minimum elong	2819 Mar 21 09:47	0° \mathbb{Y} 45'01	1°36'18	minimum elong	2820 Mar 02 22:25	12° \mathbb{H} 54'48	1°56'10
	2819 Mar 21 00:24	0° \mathbb{Y}			2820 Mar 12 01:24	0° \mathbb{Y}	
evening rise	2819 Mar 30 00:30	17° \mathbb{Y} 39'01		evening rise	2820 Mar 12 14:39	1° \mathbb{Y} 02'56	
asc. node	2819 Apr 01 08:05	22° \mathbb{Y} 11'23		asc. node	2820 Mar 18 05:08	11° \mathbb{Y} 30'24	
	2819 Apr 05 11:50	0° \mathbb{B}		evening max el	2820 Mar 28 19:10	27° \mathbb{Y} 01'12	18°26'01
evening max el	2819 Apr 15 14:45	14° \mathbb{B} 30'31	19°03'18		2820 Apr 01 23:59	0° \mathbb{B}	
retrograde	2819 Apr 24 06:58	18° \mathbb{B} 43'37		retrograde	2820 Apr 05 06:17	0° \mathbb{B} 42'20	
evening set	2819 Apr 26 09:54	18° \mathbb{B} 29'31		evening set	2820 Apr 07 15:22	0° \mathbb{B} 20'57	
inferior conj	2819 May 04 14:22	14° \mathbb{B} 15'46	1°16'11		2820 Apr 08 15:19	30° \mathbb{R} \mathbb{Y}	
minimum elong	2819 May 04 17:13	14° \mathbb{B} 10'49	1°15'14	inferior conj	2820 Apr 15 00:31	25° \mathbb{Y} 47'48	2°34'18
min. Earth dist.	2819 May 07 15:28	12° \mathbb{B} 09'55	0.56631 AU	minimum elong	2820 Apr 15 04:21	25° \mathbb{Y} 40'00	2°33'20
desc. node	2819 May 09 02:23	11° \mathbb{B} 14'01		min. Earth dist.	2820 Apr 18 11:06	23° \mathbb{Y} 01'32	0.58546 AU
morning rise	2819 May 12 21:26	9° \mathbb{B} 17'48		morning rise	2820 Apr 22 14:22	20° \mathbb{Y} 18'30	
direct	2819 May 17 23:48	8° \mathbb{B} 16'40		desc. node	2820 Apr 24 23:26	19° \mathbb{Y} 18'15	
morning max el	2819 Jun 01 06:28	15° \mathbb{B} 37'56	25°41'22	direct	2820 Apr 28 15:41	18° \mathbb{Y} 42'40	
	2819 Jun 12 20:16	0° \mathbb{I}		morning max el	2820 May 13 01:05	26° \mathbb{Y} 25'30	26°57'52
asc. node	2819 Jun 28 07:22	28° \mathbb{I} 05'20			2820 May 16 10:13	0° \mathbb{B}	
morning set	2819 Jun 28 17:29	28° \mathbb{I} 58'42			2820 Jun 05 05:11	0° \mathbb{I}	
	2819 Jun 29 05:04	0° \mathbb{E}		morning set	2820 Jun 12 03:15	13° \mathbb{I} 46'08	
				asc. node	2820 Jun 14 04:24	18° \mathbb{I} 07'00	
superior conj	2819 Jul 05 16:37	14° \mathbb{E} 05'55	1°10'50	superior conj	2820 Jun 19 04:25	29° \mathbb{I} 02'21	0°50'35
minimum elong	2819 Jul 05 14:16	13° \mathbb{E} 52'58	1°10'28	minimum elong	2820 Jun 19 02:26	28° \mathbb{I} 51'24	0°50'12
max. Earth dist.	2819 Jul 06 14:26	16° \mathbb{E} 05'28	1.32457 AU	max. Earth dist.	2820 Jun 19 02:06	28° \mathbb{I} 49'31	1.32132 AU
evening rise	2819 Jul 12 17:41	29° \mathbb{E} 13'41			2820 Jun 19 14:53	0° \mathbb{E}	
	2819 Jul 13 02:39	0° \mathbb{Q}		evening rise	2820 Jun 26 01:19	13° \mathbb{E} 57'41	
	2819 Jul 29 19:31	0° \mathbb{M}			2820 Jul 04 03:47	0° \mathbb{Q}	
desc. node	2819 Aug 05 01:42	8° \mathbb{M} 49'38		desc. node	2820 Jul 21 22:42	26° \mathbb{Q} 32'03	
evening max el	2819 Aug 13 11:44	18° \mathbb{M} 21'19	27°15'01		2820 Jul 25 06:14	0° \mathbb{M}	
retrograde	2819 Aug 27 07:40	25° \mathbb{M} 35'53		evening max el	2820 Jul 25 13:12	0° \mathbb{M} 16'41	26°30'57
evening set	2819 Sep 03 11:29	23° \mathbb{M} 13'51		retrograde	2820 Aug 08 12:33	7° \mathbb{M} 28'26	
min. Earth dist.	2819 Sep 07 01:57	20° \mathbb{M} 26'35	0.61856 AU	evening set	2820 Aug 15 04:57	5° \mathbb{M} 36'05	
inferior conj	2819 Sep 10 02:55	17° \mathbb{M} 41'32	-4°05'41	min. Earth dist.	2820 Aug 19 02:38	3° \mathbb{M} 00'19	0.59809 AU
minimum elong	2819 Sep 10 08:30	17° \mathbb{M} 28'51	4°04'20	inferior conj	2820 Aug 22 09:38	0° \mathbb{M} 24'10	-4°46'31
morning rise	2819 Sep 17 07:11	12° \mathbb{M} 42'29		minimum elong	2820 Aug 22 13:51	0° \mathbb{M} 15'47	4°45'56
direct	2819 Sep 19 16:48	12° \mathbb{M} 17'48			2820 Aug 22 21:50	30° \mathbb{R} \mathbb{Q}	
asc. node	2819 Sep 24 06:35	13° \mathbb{M} 50'31		morning rise	2820 Aug 30 00:50	25° \mathbb{Q} 47'26	
morning max el	2819 Sep 26 14:47	15° \mathbb{M} 46'53	17°54'27	direct	2820 Sep 01 10:48	25° \mathbb{Q} 26'20	
	2819 Oct 06 12:33	0° \mathbb{Q}		morning max el	2820 Sep 09 01:38	29° \mathbb{Q} 08'32	18°15'56
morning set	2819 Oct 12 12:20	10° \mathbb{Q} 43'12			2820 Sep 09 22:01	0° \mathbb{M}	
superior conj	2819 Oct 23 04:38	29° \mathbb{Q} 43'59	0°58'35	asc. node	2820 Sep 10 03:38	0° \mathbb{M} 15'04	
minimum elong	2819 Oct 23 08:59	0° \mathbb{M} 02'45	0°58'02	morning set	2820 Sep 24 23:28	24° \mathbb{M} 25'56	
	2819 Oct 23 08:21	0° \mathbb{M}			2820 Sep 27 21:53	0° \mathbb{Q}	

































































































































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minimum elong	2820 Oct 04 11:37	12°♄13'36	1°24'11		2821 Sep 19 20:26	0°♄	
max. Earth dist.	2820 Oct 11 21:55	25°♄18'35	1.40939 AU	max. Earth dist.	2821 Sep 24 02:19	7°♄46'45	1.38878 AU
	2820 Oct 14 16:47	0°♄		evening rise	2821 Sep 27 23:10	14°♄34'34	
evening rise	2820 Oct 16 16:49	3°♄18'05		desc. node	2821 Oct 04 19:05	25°♄55'35	
desc. node	2820 Oct 17 22:03	5°♄17'00			2821 Oct 07 08:47	0°♄	
	2820 Nov 03 04:23	0°♄			2821 Oct 29 00:42	0°♄	
evening max el	2820 Nov 19 21:10	21°♄05'14	23°12'08	evening max el	2821 Nov 02 10:08	4°♄44'07	24°31'25
retrograde	2820 Nov 30 05:19	27°♄12'53		retrograde	2821 Nov 13 19:53	11°♄23'44	
evening set	2820 Dec 05 02:45	25°♄11'59		evening set	2821 Nov 19 07:04	9°♄06'40	
asc. node	2820 Dec 07 02:53	23°♄11'48		asc. node	2821 Nov 23 23:55	3°♄43'59	
inferior conj	2820 Dec 10 11:55	18°♄48'30	1°08'01	min. Earth dist.	2821 Nov 23 22:45	3°♄47'53	0.67580 AU
minimum elong	2820 Dec 10 10:24	18°♄53'41	1°07'25	inferior conj	2821 Nov 24 18:21	2°♄42'24	0°15'48
min. Earth dist.	2820 Dec 10 02:53	19°♄19'32	0.67877 AU	minimum elong	2821 Nov 24 17:58	2°♄43'42	0°15'39
morning rise	2820 Dec 15 17:58	12°♄40'18		transit middle	2821 Nov 24 17:58	2°♄43'42	0°15'39
direct	2820 Dec 20 00:55	10°♄58'20		transit begin	2821 Nov 24 17:14	2°♄46'09	
morning max el	2820 Dec 28 16:44	16°♄01'09	21°21'22	transit end	2821 Nov 24 18:42	2°♄41'15	
	2821 Jan 08 22:28	0°♄			2821 Nov 26 20:31	30°♄	
desc. node	2821 Jan 13 21:20	7°♄03'46		morning rise	2821 Nov 30 04:56	26°♄39'58	
morning set	2821 Jan 28 21:58	29°♄53'09		direct	2821 Dec 03 22:48	25°♄19'31	
	2821 Jan 28 23:42	0°♄		morning max el	2821 Dec 11 15:08	29°♄42'41	20°08'04
max. Earth dist.	2821 Feb 05 00:57	11°♄21'33	1.42164 AU		2821 Dec 11 21:58	0°♄	
				desc. node	2821 Dec 31 18:22	27°♄17'23	
superior conj	2821 Feb 12 10:40	23°♄49'23	-2°05'54		2822 Jan 02 13:13	0°♄	
minimum elong	2821 Feb 12 11:26	23°♄52'40	2°05'54	morning set	2822 Jan 07 18:48	8°♄01'36	
	2821 Feb 15 23:42	0°♄		max. Earth dist.	2822 Jan 18 09:48	24°♄43'03	1.43820 AU
evening rise	2821 Feb 23 15:33	13°♄45'23			2822 Jan 21 16:29	0°♄	
	2821 Mar 04 20:41	0°♄					
asc. node	2821 Mar 05 02:11	0°♄22'20		superior conj	2822 Jan 24 01:19	3°♄51'40	-2°00'04
evening max el	2821 Mar 12 05:15	9°♄57'33	18°08'40	minimum elong	2822 Jan 23 20:35	3°♄32'17	1°59'51
retrograde	2821 Mar 18 22:49	13°♄22'46		evening rise	2822 Feb 05 22:59	25°♄38'32	
evening set	2821 Mar 21 13:59	12°♄51'48			2822 Feb 08 11:28	0°♄	
inferior conj	2821 Mar 28 06:50	7°♄57'56	3°19'57	asc. node	2822 Feb 19 23:14	18°♄38'54	
minimum elong	2821 Mar 28 09:24	7°♄51'53	3°19'35	evening max el	2822 Feb 23 17:48	23°♄11'04	18°10'35
min. Earth dist.	2821 Mar 31 13:00	4°♄55'25	0.60707 AU	retrograde	2822 Mar 02 04:32	26°♄35'12	
morning rise	2821 Apr 04 02:48	2°♄07'42		evening set	2822 Mar 05 01:14	25°♄53'21	
	2821 Apr 09 16:30	30°♄		inferior conj	2822 Mar 11 05:41	20°♄39'15	3°39'00
direct	2821 Apr 10 19:34	29°♄56'21		minimum elong	2822 Mar 11 06:21	20°♄37'27	3°38'59
desc. node	2821 Apr 11 20:29	29°♄59'23		min. Earth dist.	2822 Mar 13 23:19	17°♄44'58	0.62798 AU
	2821 Apr 11 22:57	0°♄		morning rise	2822 Mar 17 10:22	14°♄36'51	
morning max el	2821 Apr 25 01:47	7°♄50'13	27°41'53	direct	2822 Mar 24 08:38	11°♄59'11	
	2821 May 11 22:25	0°♄		desc. node	2822 Mar 29 17:33	13°♄21'22	
morning set	2821 May 27 09:25	28°♄20'20		morning max el	2822 Apr 07 07:54	19°♄55'53	27°48'39
	2821 May 28 04:37	0°♄			2822 Apr 15 22:42	0°♄	
asc. node	2821 Jun 01 01:27	8°♄14'20			2822 May 04 21:24	0°♄	
max. Earth dist.	2821 Jun 02 13:23	11°♄29'50	1.32204 AU	morning set	2822 May 11 09:49	12°♄34'27	
				max. Earth dist.	2822 May 16 20:28	23°♄54'05	1.32684 AU
superior conj	2821 Jun 03 15:37	13°♄53'31	0°27'01	asc. node	2822 May 18 22:30	28°♄23'10	
minimum elong	2821 Jun 03 14:25	13°♄46'58	0°26'46				
evening rise	2821 Jun 10 12:02	28°♄48'09		superior conj	2822 May 19 00:26	28°♄33'39	0°00'51
	2821 Jun 11 01:36	0°♄		minimum elong	2822 May 19 00:23	28°♄33'24	0°00'50
	2821 Jun 27 19:19	0°♄		behind sun begin	2822 May 18 19:11	28°♄05'14	
evening max el	2821 Jul 07 07:35	11°♄25'31	25°17'19	behind sun end	2822 May 19 05:36	29°♄01'37	
desc. node	2821 Jul 08 19:44	12°♄48'07			2822 May 19 16:22	0°♄	
retrograde	2821 Jul 21 07:28	18°♄31'59		evening rise	2822 May 25 23:53	13°♄38'34	
evening set	2821 Jul 26 23:08	17°♄18'03			2822 Jun 03 05:43	0°♄	
min. Earth dist.	2821 Jul 31 19:28	14°♄35'26	0.57781 AU	evening max el	2822 Jun 18 21:18	22°♄00'07	23°44'46
inferior conj	2821 Aug 03 21:41	12°♄28'09	-5°03'35	desc. node	2822 Jun 25 16:46	27°♄05'01	
minimum elong	2821 Aug 03 21:48	12°♄27'57	5°03'34	retrograde	2822 Jul 02 13:55	28°♄52'18	
morning rise	2821 Aug 11 22:54	8°♄13'43		evening set	2822 Jul 06 18:49	28°♄13'29	
direct	2821 Aug 14 11:57	7°♄54'15		min. Earth dist.	2822 Jul 13 07:39	25°♄08'13	0.56090 AU
morning max el	2821 Aug 23 04:52	12°♄00'30	18°58'14	inferior conj	2822 Jul 15 13:32	23°♄46'53	-4°42'05
asc. node	2821 Aug 28 00:41	17°♄43'01		minimum elong	2822 Jul 15 07:59	23°♄55'18	4°41'18
	2821 Sep 04 09:19	0°♄		morning rise	2822 Jul 23 23:43	19°♄50'14	
morning set	2821 Sep 08 20:44	8°♄38'13		direct	2822 Jul 26 18:05	19°♄30'55	
				morning max el	2822 Aug 05 21:37	24°♄13'21	20°02'03
superior conj	2821 Sep 17 06:19	25°♄05'51	1°39'29		2822 Aug 10 22:22	0°♄	

asc. node	2822 Aug 14 21:44	6°00'08			2823 Aug 04 11:03	0°0	
morning set	2822 Aug 24 00:51	23°01'45		morning set	2823 Aug 08 09:24	7°05'02	
	2822 Aug 27 09:00	0°0					
				superior conj	2823 Aug 15 17:14	23°018'28	1°42'52
superior conj	2822 Aug 31 18:50	8°05'07	1°45'02	minimum elong	2823 Aug 15 16:10	23°012'55	1°42'50
minimum elong	2822 Aug 31 19:10	8°05'58	1°45'01		2823 Aug 18 23:30	0°0	
max. Earth dist.	2822 Sep 06 07:38	19°04'53	1.36878 AU	max. Earth dist.	2823 Aug 19 19:03	1°038'22	1.35141 AU
evening rise	2822 Sep 10 03:45	26°05'30		evening rise	2823 Aug 24 02:25	10°003'32	
	2822 Sep 11 21:23	0°0			2823 Sep 04 09:36	0°0	
desc. node	2822 Sep 21 16:05	16°023'00		desc. node	2823 Sep 08 13:06	6°033'35	
	2822 Sep 30 19:19	0°0			2823 Sep 26 09:38	0°0	
evening max el	2822 Oct 15 22:21	18°025'20	25°43'45	evening max el	2823 Sep 28 10:39	2°003'14	26°41'32
retrograde	2822 Oct 28 05:46	25°027'24		retrograde	2823 Oct 11 10:26	9°017'51	
evening set	2822 Nov 03 07:08	22°025'08		evening set	2823 Oct 18 00:57	6°036'57	
min. Earth dist.	2822 Nov 07 15:12	18°012'36	0.66945 AU	min. Earth dist.	2823 Oct 22 01:55	2°029'43	0.65961 AU
inferior conj	2822 Nov 08 21:47	16°035'29	-0°40'33	inferior conj	2823 Oct 23 20:14	0°024'21	-1°39'32
minimum elong	2822 Nov 08 22:50	16°032'08	0°40'05	minimum elong	2823 Oct 23 22:56	0°016'21	1°38'25
asc. node	2822 Nov 10 20:58	14°010'00			2823 Oct 24 04:27	30°00	
morning rise	2822 Nov 14 14:51	10°041'30		asc. node	2823 Oct 28 18:00	25°025'10	
direct	2822 Nov 17 21:27	9°039'46		morning rise	2823 Oct 29 21:34	24°041'39	
morning max el	2822 Nov 24 21:16	13°034'04	19°09'02	direct	2823 Nov 01 19:00	23°055'00	
	2822 Dec 07 03:27	0°0		morning max el	2823 Nov 08 09:29	27°031'07	18°25'54
morning set	2822 Dec 17 22:10	16°038'25			2823 Nov 10 15:02	0°0	
desc. node	2822 Dec 18 15:24	17°045'29		morning set	2823 Nov 28 03:10	26°034'58	
	2822 Dec 26 11:39	0°0			2823 Nov 30 06:14	0°0	
max. Earth dist.	2823 Jan 01 01:21	8°0344'44	1.44869 AU	desc. node	2823 Dec 05 12:24	8°0323'37	
superior conj	2823 Jan 03 15:15	12°0349'14	-1°35'09	superior conj	2823 Dec 13 16:58	21°019'24	-0°53'25
minimum elong	2823 Jan 03 06:21	12°0314'01	1°34'18	minimum elong	2823 Dec 13 10:14	20°032'59	0°52'34
	2823 Jan 14 08:06	0°0		max. Earth dist.	2823 Dec 14 20:10	23°0306'12	1.45197 AU
evening rise	2823 Jan 18 08:51	6°035'50			2823 Dec 19 05:42	0°0	
	2823 Feb 01 23:54	0°0		evening rise	2823 Dec 29 19:24	16°0336'45	
asc. node	2823 Feb 06 20:16	6°0309'22			2824 Jan 07 07:28	0°0	
evening max el	2823 Feb 07 05:56	6°034'28	18°31'07	greatest brilliancy	2824 Jan 08 20:33	2°024'21	-0.8m
retrograde	2823 Feb 13 19:04	10°0310'24		evening max el	2824 Jan 21 15:17	20°002'39	19°09'12
evening set	2823 Feb 16 21:24	9°0316'52		asc. node	2824 Jan 24 17:17	22°040'34	
inferior conj	2823 Feb 22 16:59	3°0344'09	3°38'05	retrograde	2824 Jan 28 14:41	24°001'07	
minimum elong	2823 Feb 22 16:02	3°0346'59	3°38'01	evening set	2824 Jan 31 23:30	22°055'04	
min. Earth dist.	2823 Feb 24 19:11	1°0316'11	0.64601 AU	inferior conj	2824 Feb 06 13:12	17°005'58	3°22'17
	2823 Feb 25 22:22	30°033		minimum elong	2824 Feb 06 11:10	17°012'27	3°21'57
morning rise	2823 Feb 28 10:07	27°035'02		min. Earth dist.	2824 Feb 08 00:06	15°014'43	0.66022 AU
direct	2823 Mar 07 05:11	24°044'50		morning rise	2824 Feb 11 22:32	10°053'27	
desc. node	2823 Mar 16 14:36	28°053'08		direct	2824 Feb 18 08:16	8°004'18	
	2823 Mar 17 22:45	0°0		morning max el	2824 Mar 02 03:12	15°038'37	26°22'00
morning max el	2823 Mar 20 17:18	2°036'11	27°19'57	desc. node	2824 Mar 02 11:38	16°000'01	
	2823 Apr 10 05:28	0°0			2824 Mar 13 23:18	0°0	
morning set	2823 Apr 25 01:47	26°020'11			2824 Apr 02 01:12	0°0	
	2823 Apr 26 22:18	0°0		morning set	2824 Apr 07 05:32	9°025'39	
max. Earth dist.	2823 Apr 29 19:34	5°0351'21	1.33595 AU	max. Earth dist.	2824 Apr 11 07:21	17°014'56	1.34965 AU
superior conj	2823 May 03 04:56	12°0356'32	-0°27'04	superior conj	2824 Apr 16 02:46	26°034'28	-0°55'31
minimum elong	2823 May 03 06:19	13°0303'49	0°26'47	minimum elong	2824 Apr 16 05:39	27°009'12	0°54'59
asc. node	2823 May 05 19:33	18°0329'41			2824 Apr 17 14:48	0°0	
evening rise	2823 May 10 11:02	28°0322'38		asc. node	2824 Apr 21 16:35	8°0328'48	
	2823 May 11 05:39	0°0		evening rise	2824 Apr 23 19:28	12°0352'54	
	2823 May 29 04:26	0°0			2824 May 02 17:25	0°0	
evening max el	2823 May 31 13:06	2°029'21	22°08'49	evening max el	2824 May 12 14:05	13°022'34	20°42'46
desc. node	2823 Jun 12 13:47	8°0348'23		retrograde	2824 May 23 21:47	18°0253'39	
retrograde	2823 Jun 13 08:39	8°0349'48		evening set	2824 May 25 23:50	18°0243'09	
evening set	2823 Jun 16 04:35	8°0332'00		desc. node	2824 May 29 10:49	17°0243'44	
min. Earth dist.	2823 Jun 24 18:41	4°0351'02	0.55062 AU	inferior conj	2824 Jun 04 06:27	14°0245'30	-1°41'54
inferior conj	2823 Jun 25 12:48	4°0325'33	-3°31'49	minimum elong	2824 Jun 04 01:39	14°0252'23	1°40'10
minimum elong	2823 Jun 25 04:39	4°0337'02	3°29'33	min. Earth dist.	2824 Jun 05 06:56	14°0210'26	0.54941 AU
morning rise	2823 Jul 04 06:29	0°034'00		morning rise	2824 Jun 13 02:54	10°0238'47	
direct	2823 Jul 07 08:12	0°0312'57		direct	2824 Jun 16 17:33	10°0210'41	
morning max el	2823 Jul 19 02:52	5°0342'43	21°26'02	morning max el	2824 Jun 29 22:18	16°0231'54	23°04'41
asc. node	2823 Aug 01 18:47	24°0354'54			2824 Jul 10 15:00	0°0	

asc. node	2824 Jul 18 15:49	14°♄17'06		morning max el	2825 Jun 11 12:44	26°♄58'35	24°46'47
morning set	2824 Jul 22 20:25	22°♄50'27			2825 Jun 14 11:01	0°♄	
	2824 Jul 26 05:04	0°♄			2825 Jul 03 13:40	0°♄	
				asc. node	2825 Jul 05 12:52	3°♄59'23	
superior conj	2824 Jul 29 22:17	7°♄59'15	1°34'25	morning set	2825 Jul 07 08:13	7°♄45'50	
minimum elong	2824 Jul 29 20:18	7°♄48'41	1°34'15				
max. Earth dist.	2824 Aug 01 15:15	13°♄43'36	1.33778 AU	superior conj	2825 Jul 14 07:31	22°♄51'32	1°20'45
evening rise	2824 Aug 06 14:42	23°♄53'23		minimum elong	2825 Jul 14 05:09	22°♄38'40	1°20'26
	2824 Aug 09 18:21	0°♄		max. Earth dist.	2825 Jul 15 19:51	26°♄08'58	1.32825 AU
desc. node	2824 Aug 25 10:07	26°♄19'23			2825 Jul 17 14:49	0°♄	
	2824 Aug 27 23:38	0°♄		evening rise	2825 Jul 21 12:49	8°♄11'52	
evening max el	2824 Sep 09 22:35	15°♄28'26	27°17'33		2825 Aug 02 04:38	0°♄	
retrograde	2824 Sep 23 09:35	22°♄47'07		desc. node	2825 Aug 12 07:08	15°♄29'56	
evening set	2824 Sep 30 10:04	20°♄04'36		evening max el	2825 Aug 23 08:39	28°♄29'14	27°25'17
min. Earth dist.	2824 Oct 04 04:44	16°♄32'43	0.64619 AU		2825 Aug 25 00:40	0°♄	
inferior conj	2824 Oct 06 11:26	14°♄04'27	-2°39'07	retrograde	2825 Sep 06 02:24	5°♄45'52	
minimum elong	2824 Oct 06 15:46	13°♄52'43	2°37'33	evening set	2825 Sep 13 07:12	3°♄12'56	
morning rise	2824 Oct 12 22:31	8°♄36'02		min. Earth dist.	2825 Sep 16 21:54	0°♄11'47	0.62943 AU
asc. node	2824 Oct 14 15:02	8°♄05'07			2825 Sep 17 02:53	30°♄	
direct	2824 Oct 15 13:10	8°♄00'39		inferior conj	2825 Sep 19 16:42	27°♄29'21	-3°36'06
morning max el	2824 Oct 22 01:11	11°♄27'49	17°59'36	minimum elong	2825 Sep 19 22:09	27°♄16'04	3°34'29
	2824 Nov 03 19:36	0°♄		morning rise	2825 Sep 26 14:32	22°♄18'25	
morning set	2824 Nov 08 13:13	7°♄57'09		direct	2825 Sep 29 01:06	21°♄50'43	
desc. node	2824 Nov 21 09:26	29°♄08'10		asc. node	2825 Oct 01 12:05	22°♄19'30	
	2824 Nov 21 22:19	0°♄		morning max el	2825 Oct 05 17:26	25°♄17'03	17°50'57
					2825 Oct 09 15:27	0°♄	
superior conj	2824 Nov 22 03:44	0°♄21'45	-0°05'12	morning set	2825 Oct 21 23:09	20°♄28'08	
minimum elong	2824 Nov 22 03:06	0°♄19'13	0°05'07		2825 Oct 27 09:33	0°♄	
behind sun begin	2824 Nov 21 17:07	29°♄39'06					
behind sun end	2824 Nov 22 13:05	0°♄59'17		superior conj	2825 Nov 02 14:30	10°♄35'23	0°38'17
max. Earth dist.	2824 Nov 26 14:50	7°♄28'10	1.44783 AU	minimum elong	2825 Nov 02 18:03	10°♄50'16	0°37'48
evening rise	2824 Dec 08 10:46	25°♄54'35		desc. node	2825 Nov 08 06:26	19°♄55'22	
	2824 Dec 11 02:35	0°♄		max. Earth dist.	2825 Nov 09 06:56	21°♄34'20	1.43692 AU
greatest brilliancy	2824 Dec 22 18:05	17°♄37'06	-0.6m		2825 Nov 14 14:08	0°♄	
	2824 Dec 31 17:10	0°♄		evening rise	2825 Nov 17 19:36	5°♄01'48	
evening max el	2825 Jan 03 20:08	3°♄33'20	20°03'07		2825 Dec 04 12:33	0°♄	
asc. node	2825 Jan 10 14:18	7°♄58'13		evening max el	2825 Dec 17 19:33	17°♄04'54	21°10'10
retrograde	2825 Jan 11 12:30	8°♄02'56		retrograde	2825 Dec 26 10:12	22°♄11'15	
evening set	2825 Jan 15 05:16	6°♄43'06		asc. node	2825 Dec 28 11:21	21°♄48'06	
inferior conj	2825 Jan 20 15:27	0°♄40'19	2°55'10	evening set	2825 Dec 30 12:46	20°♄36'15	
minimum elong	2825 Jan 20 12:55	0°♄48'47	2°54'33	inferior conj	2826 Jan 04 21:20	14°♄22'46	2°19'06
	2825 Jan 21 03:26	30°♄		minimum elong	2826 Jan 04 18:50	14°♄31'21	2°18'18
min. Earth dist.	2825 Jan 21 12:25	29°♄29'54	0.67036 AU	min. Earth dist.	2826 Jan 05 05:49	13°♄53'28	0.67654 AU
morning rise	2825 Jan 25 20:21	24°♄26'43		morning rise	2826 Jan 10 00:43	8°♄09'57	
direct	2825 Jan 31 17:09	21°♄49'34		direct	2826 Jan 15 06:52	5°♄52'06	
morning max el	2825 Feb 12 11:59	28°♄51'53	25°04'04	morning max el	2826 Jan 25 20:30	12°♄09'45	23°36'24
	2825 Feb 13 14:19	0°♄		desc. node	2826 Feb 04 05:41	23°♄18'04	
desc. node	2825 Feb 17 08:39	4°♄15'05			2826 Feb 09 03:25	0°♄	
	2825 Mar 07 18:16	0°♄			2826 Feb 28 14:16	0°♄	
morning set	2825 Mar 20 16:17	21°♄37'34		morning set	2826 Mar 02 03:51	2°♄38'26	
max. Earth dist.	2825 Mar 24 07:54	28°♄16'43	1.36770 AU	max. Earth dist.	2826 Mar 06 02:50	9°♄28'46	1.38876 AU
	2825 Mar 25 06:03	0°♄					
				superior conj	2826 Mar 13 14:05	23°♄03'23	-1°46'05
superior conj	2825 Mar 30 15:05	10°♄20'12	-1°22'43	minimum elong	2826 Mar 13 18:30	23°♄24'10	1°45'39
minimum elong	2825 Mar 30 19:11	10°♄40'23	1°22'06		2826 Mar 17 05:46	0°♄	
evening rise	2825 Apr 07 23:01	27°♄03'20		evening rise	2826 Mar 22 18:56	10°♄46'06	
asc. node	2825 Apr 08 13:37	28°♄16'35		asc. node	2826 Mar 26 10:40	17°♄47'37	
	2825 Apr 09 10:20	0°♄			2826 Apr 02 11:23	0°♄	
evening max el	2825 Apr 25 03:08	24°♄55'34	19°33'58	evening max el	2826 Apr 08 02:51	7°♄07'17	18°45'00
retrograde	2825 May 04 17:02	29°♄33'51		retrograde	2826 Apr 16 05:00	11°♄04'16	
evening set	2825 May 06 17:17	29°♄22'29		evening set	2826 Apr 18 10:39	10°♄47'20	
inferior conj	2825 May 15 09:04	25°♄18'19	0°16'33	inferior conj	2826 Apr 26 06:42	6°♄25'52	1°53'25
minimum elong	2825 May 15 09:47	25°♄17'10	0°16'17	minimum elong	2826 Apr 26 10:21	6°♄19'05	1°52'19
desc. node	2825 May 16 07:51	24°♄41'58		min. Earth dist.	2826 Apr 29 13:59	4°♄00'17	0.57399 AU
min. Earth dist.	2825 May 17 21:10	23°♄43'05	0.55784 AU	desc. node	2826 May 03 04:52	1°♄45'13	
morning rise	2825 May 23 23:35	20°♄40'24		morning rise	2826 May 04 06:53	1°♄13'50	
direct	2825 May 28 11:50	19°♄54'38			2826 May 09 01:25	30°♄	

direct	2826 May 09 19:56	29° Υ 58'32		direct	2827 Apr 21 16:53	10° Υ 44'11	
	2826 May 10 14:29	0° ♄		morning max el	2827 May 06 01:18	18° Υ 31'52	27°21'08
morning max el	2826 May 24 04:15	7° ♄ 30'05	26°17'11		2827 May 15 16:32	0° ♄	
	2826 Jun 09 22:22	0° ♂			2827 Jun 02 12:59	0° ♂	
morning set	2826 Jun 21 19:15	22° ♂ 38'02		morning set	2827 Jun 06 03:43	7° ♂ 20'50	
asc. node	2826 Jun 22 09:56	23° ♂ 55'44		asc. node	2827 Jun 09 06:58	14° ♂ 00'28	
	2826 Jun 25 05:34	0° ♄					
superior conj	2826 Jun 28 18:55	7° ♄ 48'30	1°02'43	superior conj	2827 Jun 13 06:40	22° ♂ 43'27	0°40'59
minimum elong	2826 Jun 28 16:40	7° ♄ 36'05	1°02'19	minimum elong	2827 Jun 13 04:58	22° ♂ 34'05	0°40'37
max. Earth dist.	2826 Jun 29 06:09	8° ♄ 50'16	1.32275 AU	max. Earth dist.	2827 Jun 12 18:19	21° ♂ 35'33	1.32117 AU
evening rise	2826 Jul 05 17:44	22° ♄ 49'29			2827 Jun 16 14:04	0° ♄	
	2826 Jul 09 06:12	0° ♂		evening rise	2827 Jun 20 02:56	7° ♄ 37'25	
	2826 Jul 27 04:46	0° ♄			2827 Jul 01 18:38	0° ♂	
desc. node	2826 Jul 30 04:09	3° ♄ 50'44		desc. node	2827 Jul 17 01:12	21° ♂ 00'23	
evening max el	2826 Aug 05 14:14	10° ♄ 52'48	27°00'23	evening max el	2827 Jul 18 12:43	22° ♂ 28'22	26°02'46
retrograde	2826 Aug 19 11:47	18° ♄ 05'27		retrograde	2827 Aug 01 12:19	29° ♂ 37'48	
evening set	2826 Aug 26 12:11	15° ♄ 54'56		evening set	2827 Aug 07 20:09	28° ♂ 01'09	
min. Earth dist.	2826 Aug 30 04:30	13° ♄ 14'23	0.61000 AU	min. Earth dist.	2827 Aug 12 01:14	25° ♂ 25'01	0.58934 AU
inferior conj	2826 Sep 02 08:46	10° ♄ 31'12	-4°25'08	inferior conj	2827 Aug 15 07:56	22° ♂ 58'49	-4°57'28
minimum elong	2826 Sep 02 14:04	10° ♄ 19'48	4°24'03	minimum elong	2827 Aug 15 10:45	22° ♂ 53'33	4°57'14
morning rise	2826 Sep 09 17:42	5° ♄ 41'01		morning rise	2827 Aug 23 03:32	18° ♂ 31'48	
direct	2826 Sep 12 03:09	5° ♄ 18'04		direct	2827 Aug 25 14:42	18° ♂ 11'27	
asc. node	2826 Sep 18 09:08	8° ♄ 01'10		morning max el	2827 Sep 02 15:11	22° ♂ 01'59	18°31'18
morning max el	2826 Sep 19 07:11	8° ♄ 51'39	18°01'04	asc. node	2827 Sep 05 06:12	24° ♂ 54'37	
	2826 Oct 03 00:51	0° ♄			2827 Sep 08 21:26	0° ♄	
morning set	2826 Oct 05 02:42	3° ♄ 49'55		morning set	2827 Sep 18 18:37	17° ♄ 46'51	
					2827 Sep 25 03:08	0° ♄	
superior conj	2826 Oct 15 04:07	22° ♄ 08'08	1°11'02	superior conj	2827 Sep 27 16:15	4° ♄ 47'08	1°32'09
minimum elong	2826 Oct 15 08:27	22° ♄ 27'18	1°10'31	minimum elong	2827 Sep 27 19:23	5° ♄ 01'45	1°31'52
	2826 Oct 19 16:56	0° ♄		max. Earth dist.	2827 Oct 05 01:19	18° ♄ 04'14	1.40076 AU
max. Earth dist.	2826 Oct 22 18:43	5° ♄ 10'37	1.42058 AU	evening rise	2827 Oct 09 07:17	25° ♄ 18'45	
desc. node	2826 Oct 26 03:28	10° ♄ 42'20			2827 Oct 12 03:31	0° ♄	
evening rise	2826 Oct 28 14:48	14° ♄ 40'55		desc. node	2827 Oct 13 00:30	1° ♄ 25'03	
	2826 Nov 07 13:00	0° ♄			2827 Nov 01 07:13	0° ♄	
	2826 Nov 29 22:51	0° ♄		evening max el	2827 Nov 13 03:50	14° ♄ 14'08	23°46'09
evening max el	2826 Nov 30 13:42	0° ♄ 38'12	22°26'15	retrograde	2827 Nov 23 22:58	20° ♄ 36'08	
retrograde	2826 Dec 10 06:06	6° ♄ 23'32		evening set	2827 Nov 29 02:15	18° ♄ 27'58	
evening set	2826 Dec 14 20:17	4° ♄ 32'06		asc. node	2827 Dec 02 05:26	15° ♄ 05'52	
asc. node	2826 Dec 15 08:24	4° ♄ 05'53		min. Earth dist.	2827 Dec 03 22:34	12° ♄ 49'55	0.67796 AU
	2826 Dec 18 21:10	30° ♄		inferior conj	2827 Dec 04 12:10	12° ♄ 03'37	0°46'27
inferior conj	2826 Dec 20 04:51	28° ♄ 11'16	1°35'45	minimum elong	2827 Dec 04 11:06	12° ♄ 07'17	0°46'00
minimum elong	2826 Dec 20 02:51	28° ♄ 18'10	1°35'01	morning rise	2827 Dec 09 19:55	5° ♄ 57'51	
min. Earth dist.	2826 Dec 20 01:59	28° ♄ 21'11	0.67903 AU	direct	2827 Dec 13 21:05	4° ♄ 25'29	
morning rise	2826 Dec 25 09:17	22° ♄ 01'03		morning max el	2827 Dec 22 02:08	9° ♄ 09'55	20°48'38
direct	2826 Dec 30 00:31	20° ♄ 05'52			2828 Jan 06 23:29	0° ♄	
morning max el	2827 Jan 08 08:05	25° ♄ 34'31	22°08'43	desc. node	2828 Jan 08 23:46	2° ♄ 57'57	
	2827 Jan 12 07:57	0° ♄		morning set	2828 Jan 20 15:47	20° ♄ 43'18	
desc. node	2827 Jan 22 02:43	12° ♄ 55'33			2828 Jan 26 12:47	0° ♄	
	2827 Feb 02 15:57	0° ♄		max. Earth dist.	2828 Jan 29 05:02	4° ♄ 18'52	1.42928 AU
morning set	2827 Feb 10 10:55	12° ♄ 16'16					
max. Earth dist.	2827 Feb 16 00:25	21° ♄ 25'58	1.41027 AU	superior conj	2828 Feb 05 00:34	15° ♄ 35'04	-2°05'36
	2827 Feb 21 00:34	0° ♄		minimum elong	2828 Feb 04 23:11	15° ♄ 29'14	2°05'34
					2828 Feb 13 09:02	0° ♄	
superior conj	2827 Feb 23 18:58	4° ♄ 52'17	-2°01'59	evening rise	2828 Feb 16 21:58	6° ♄ 16'13	
minimum elong	2827 Feb 23 21:51	5° ♄ 05'07	2°01'52	asc. node	2828 Feb 28 04:46	25° ♄ 34'12	
evening rise	2827 Mar 06 03:55	23° ♄ 53'18			2828 Mar 02 08:17	0° ♄	
	2827 Mar 09 10:57	0° ♄		evening max el	2828 Mar 04 21:31	2° ♄ 54'19	18°07'09
asc. node	2827 Mar 13 07:43	6° ♄ 55'58		retrograde	2828 Mar 11 11:06	6° ♄ 17'49	
evening max el	2827 Mar 22 10:05	19° ♄ 49'51	18°16'13	evening set	2828 Mar 14 04:34	5° ♄ 42'24	
retrograde	2827 Mar 29 12:11	23° ♄ 22'17		inferior conj	2828 Mar 20 15:39	0° ♄ 39'35	3°30'53
evening set	2827 Apr 01 00:03	22° ♄ 56'54		minimum elong	2828 Mar 20 17:25	0° ♄ 35'09	3°30'43
inferior conj	2827 Apr 08 01:45	18° ♄ 14'35	2°57'21		2828 Mar 21 07:27	30° ♄	
minimum elong	2827 Apr 08 05:13	18° ♄ 07'04	2°56'38	min. Earth dist.	2828 Mar 23 17:01	27° ♄ 37'53	0.61610 AU
min. Earth dist.	2827 Apr 11 11:40	15° ♄ 18'38	0.59456 AU	morning rise	2828 Mar 27 04:39	24° ♄ 43'00	
morning rise	2827 Apr 15 07:52	12° ♄ 35'21		direct	2828 Apr 03 00:42	22° ♄ 19'13	
desc. node	2827 Apr 20 01:55	10° ♄ 51'22		desc. node	2828 Apr 05 22:57	22° ♄ 43'32	

	2828 Apr 16 22:30	0°♿		min. Earth dist.	2829 Mar 06 07:31	10°♿46'22	0.63601 AU
morning max el	2828 Apr 17 04:48	0°♿15'34	27°49'30	morning rise	2829 Mar 09 19:30	7°♿25'33	
	2828 May 08 17:31	0°♿		direct	2829 Mar 16 17:17	4°♿40'30	
morning set	2828 May 20 07:45	21°♿48'01		desc. node	2829 Mar 23 19:59	7°♿04'24	
	2828 May 24 05:43	0°♿		morning max el	2829 Mar 30 12:42	12°♿37'13	27°40'31
max. Earth dist.	2828 May 26 04:29	4°♿11'45	1.32355 AU		2829 Apr 13 10:03	0°♿	
asc. node	2828 May 26 04:02	4°♿09'20			2829 May 01 05:02	0°♿	
				morning set	2829 May 04 04:55	5°♿50'58	
superior conj	2828 May 27 17:03	7°♿30'51	0°16'13	max. Earth dist.	2829 May 09 08:23	16°♿24'17	1.33009 AU
minimum elong	2828 May 27 16:18	7°♿26'46	0°16'03				
evening rise	2828 Jun 03 14:22	22°♿28'51		superior conj	2829 May 12 00:15	22°♿04'00	-0°10'52
	2828 Jun 07 05:24	0°♿		minimum elong	2829 May 12 00:47	22°♿06'52	0°10'44
	2828 Jun 26 00:19	0°♿		behind sun begin	2829 May 11 20:49	21°♿45'37	
evening max el	2828 Jun 29 04:16	3°♿19'19	24°39'18	behind sun end	2829 May 12 04:45	22°♿28'09	
desc. node	2828 Jul 02 22:13	6°♿30'19		asc. node	2829 May 13 01:04	24°♿17'27	
retrograde	2828 Jul 13 02:23	10°♿22'02			2829 May 15 16:32	0°♿	
evening set	2828 Jul 18 04:09	9°♿23'55		evening rise	2829 May 19 02:05	7°♿16'36	
min. Earth dist.	2828 Jul 23 15:24	6°♿33'26	0.57005 AU		2829 May 31 02:12	0°♿	
inferior conj	2828 Jul 26 11:19	4°♿43'35	-5°00'00	evening max el	2829 Jun 10 17:48	13°♿47'10	23°03'33
minimum elong	2828 Jul 26 09:01	4°♿47'19	4°59'53	desc. node	2829 Jun 19 19:13	19°♿45'21	
morning rise	2828 Aug 03 16:33	0°♿38'06		retrograde	2829 Jun 24 03:58	20°♿28'48	
direct	2828 Aug 06 07:36	0°♿18'56		evening set	2829 Jun 27 17:20	20°♿01'05	
morning max el	2828 Aug 15 14:18	4°♿38'41	19°22'45	min. Earth dist.	2829 Jul 05 03:03	16°♿42'00	0.55550 AU
asc. node	2828 Aug 22 03:14	12°♿44'56		inferior conj	2829 Jul 06 19:13	15°♿43'37	-4°18'23
	2828 Aug 31 17:16	0°♿		minimum elong	2829 Jul 06 11:53	15°♿54'19	4°16'53
morning set	2828 Sep 01 19:05	2°♿08'24		morning rise	2829 Jul 15 08:51	11°♿50'59	
				direct	2829 Jul 18 05:39	11°♿31'26	
superior conj	2828 Sep 09 21:17	18°♿16'15	1°42'52	morning max el	2829 Jul 29 02:12	16°♿33'27	20°35'29
minimum elong	2828 Sep 09 22:37	18°♿22'48	1°42'49		2829 Aug 08 05:46	0°♿	
max. Earth dist.	2828 Sep 16 05:08	0°♿16'17	1.38006 AU	asc. node	2829 Aug 09 00:17	1°♿19'14	
	2828 Sep 16 01:35	0°♿		morning set	2829 Aug 17 01:19	16°♿47'16	
evening rise	2828 Sep 19 23:27	7°♿02'17			2829 Aug 23 10:44	0°♿	
desc. node	2828 Sep 28 21:32	21°♿59'24					
	2828 Oct 04 01:27	0°♿		superior conj	2829 Aug 24 14:26	2°♿21'39	1°44'57
evening max el	2828 Oct 25 16:03	27°♿53'28	25°03'23	minimum elong	2829 Aug 24 14:07	2°♿20'03	1°44'58
	2828 Oct 27 22:38	0°♿		max. Earth dist.	2829 Aug 29 12:04	12°♿07'55	1.36098 AU
retrograde	2828 Nov 06 11:45	4°♿44'37		evening rise	2829 Sep 02 12:18	19°♿44'41	
evening set	2828 Nov 12 04:59	2°♿20'54			2829 Sep 08 06:03	0°♿	
	2828 Nov 14 12:44	30°♿		desc. node	2829 Sep 15 18:32	12°♿20'30	
min. Earth dist.	2828 Nov 16 17:16	27°♿16'58	0.67351 AU		2829 Sep 28 02:18	0°♿	
inferior conj	2828 Nov 17 17:32	25°♿57'21	-0°07'41	evening max el	2829 Oct 08 04:15	11°♿34'28	26°10'35
minimum elong	2828 Nov 17 17:44	25°♿56'44	0°07'36	retrograde	2829 Oct 20 19:40	18°♿43'39	
transit middle	2828 Nov 17 17:44	25°♿56'44	0°07'36	evening set	2829 Oct 27 02:41	16°♿07'44	
transit begin	2828 Nov 17 15:17	26°♿04'46		min. Earth dist.	2829 Oct 31 07:42	11°♿39'18	0.66564 AU
transit end	2828 Nov 17 20:11	25°♿48'42		inferior conj	2829 Nov 01 19:07	9°♿49'42	-1°05'19
asc. node	2828 Nov 18 02:28	25°♿28'07		minimum elong	2829 Nov 01 20:52	9°♿44'19	1°04'35
morning rise	2828 Nov 23 06:40	19°♿58'15		asc. node	2829 Nov 04 23:29	6°♿09'29	
direct	2828 Nov 26 19:23	18°♿46'23		morning rise	2829 Nov 07 15:29	3°♿59'56	
morning max el	2828 Dec 04 03:59	22°♿56'15	19°41'02	direct	2829 Nov 10 17:51	3°♿05'08	
	2828 Dec 10 01:39	0°♿		morning max el	2829 Nov 17 12:57	6°♿50'51	18°48'36
greatest brilliancy	2828 Dec 17 08:52	10°♿25'26	-0.7m		2829 Dec 03 22:33	0°♿	
desc. node	2828 Dec 25 20:47	23°♿18'05		morning set	2829 Dec 09 01:02	8°♿01'45	
morning set	2828 Dec 29 12:06	28°♿54'14		desc. node	2829 Dec 12 17:49	13°♿51'09	
	2828 Dec 30 05:06	0°♿			2829 Dec 23 00:40	0°♿	
max. Earth dist.	2829 Jan 10 16:37	17°♿57'57	1.44342 AU	max. Earth dist.	2829 Dec 24 09:32	2°♿09'00	1.45100 AU
superior conj	2829 Jan 15 03:57	25°♿06'59	-1°51'53	superior conj	2829 Dec 25 10:33	3°♿47'18	-1°19'02
minimum elong	2829 Jan 14 20:56	24°♿38'42	1°51'24	minimum elong	2829 Dec 25 01:43	3°♿12'36	1°18'05
	2829 Jan 18 04:17	0°♿		evening rise	2830 Jan 09 20:33	28°♿18'33	
evening rise	2829 Jan 28 20:37	17°♿45'52			2830 Jan 10 21:42	0°♿	
	2829 Feb 05 02:44	0°♿		evening max el	2830 Jan 30 21:24	29°♿38'25	18°45'16
asc. node	2829 Feb 14 01:48	13°♿32'23			2830 Jan 31 06:02	0°♿	
evening max el	2829 Feb 16 10:08	16°♿12'11	18°17'08	asc. node	2830 Jan 31 22:48	0°♿39'26	
retrograde	2829 Feb 22 21:01	19°♿40'10		retrograde	2830 Feb 06 13:58	3°♿22'28	
evening set	2829 Feb 25 19:57	18°♿53'38		evening set	2830 Feb 09 18:55	2°♿23'48	
inferior conj	2829 Mar 03 20:14	13°♿31'34	3°40'43		2830 Feb 12 15:47	30°♿	
minimum elong	2829 Mar 03 20:09	13°♿31'48	3°40'43	inferior conj	2830 Feb 15 11:43	26°♿44'07	3°32'56

minimum elong	2830 Feb 15 10:13	26°  48'40	3°32'46	retrograde	2831 Jan 21 10:46	17°  18'30	
min. Earth dist.	2830 Feb 17 07:23	24°  30'40	0.65263 AU	evening set	2831 Jan 24 22:52	16°  06'35	
morning rise	2830 Feb 21 01:06	20°  33'19		inferior conj	2831 Jan 30 10:49	10°  11'23	3°11'58
direct	2830 Feb 27 16:58	17°  41'41		minimum elong	2831 Jan 30 08:31	10°  18'56	3°11'30
desc. node	2830 Mar 10 17:01	23°  20'04		min. Earth dist.	2831 Jan 31 15:34	8°  37'28	0.66513 AU
morning max el	2830 Mar 12 22:20	25°  27'23	26°58'13	morning rise	2831 Feb 04 17:55	3°  58'26	
	2830 Mar 17 02:18	0°  ✠		direct	2831 Feb 10 22:34	1°  13'21	
	2830 Apr 06 22:00	0°  ☿		morning max el	2831 Feb 23 07:43	8°  34'54	25°50'38
morning set	2830 Apr 17 16:08	19°  ☿20'21		desc. node	2831 Feb 25 14:03	10°  58'33	
max. Earth dist.	2830 Apr 22 02:33	28°  ☿04'53	1.34120 AU		2831 Mar 12 03:08	0°  ✠	
	2830 Apr 23 01:15	0°  ♄			2831 Mar 30 10:03	0°  ☿	
				morning set	2831 Mar 31 13:19	2°  ☿04'35	
superior conj	2830 Apr 26 02:13	6°  ♄16'47	-0°39'11	max. Earth dist.	2831 Apr 04 09:23	9°  ☿17'01	1.35689 AU
minimum elong	2830 Apr 26 04:14	6°  ♄27'19	0°38'46				
asc. node	2830 Apr 29 22:06	14°  ♄20'55		superior conj	2831 Apr 09 20:26	20°  ☿02'15	-1°07'20
evening rise	2830 May 03 12:16	21°  ♄54'52		minimum elong	2831 Apr 09 23:53	20°  ☿19'41	1°06'44
	2830 May 07 11:32	0°  ♄			2831 Apr 14 17:25	0°  ♄	
evening max el	2830 May 23 12:57	24°  ♄23'32	21°30'29	asc. node	2831 Apr 16 19:09	4°  ♄15'51	
	2830 Jun 01 14:44	0°  ♄		evening rise	2831 Apr 17 18:57	6°  ♄17'45	
retrograde	2830 Jun 04 18:35	0°  ♄23'48			2831 May 01 01:52	0°  ♄	
desc. node	2830 Jun 06 16:14	0°  ♄15'32		evening max el	2831 May 05 19:04	5°  ♄32'56	20°11'07
evening set	2830 Jun 07 04:40	0°  ♄10'29		retrograde	2831 May 16 08:34	10°  ♄40'45	
	2830 Jun 08 00:42	30°  ♄		evening set	2831 May 18 08:38	10°  ♄30'28	
inferior conj	2830 Jun 16 14:18	26°  ♄10'14	-2°48'33	desc. node	2831 May 24 13:16	8°  ♄10'13	
minimum elong	2830 Jun 16 06:55	26°  ♄20'33	2°46'10	inferior conj	2831 May 27 10:03	6°  ♄31'38	-0°50'32
min. Earth dist.	2830 Jun 16 14:31	26°  ♄09'55	0.54890 AU	minimum elong	2831 May 27 07:41	6°  ♄35'09	0°49'39
morning rise	2830 Jun 25 09:56	22°  ♄14'30		min. Earth dist.	2831 May 29 03:11	5°  ♄30'44	0.55188 AU
direct	2830 Jun 28 16:25	21°  ♄51'12		morning rise	2831 Jun 05 05:13	2°  ♄13'29	
morning max el	2830 Jul 11 02:40	27°  ♄43'29	22°06'44	direct	2831 Jun 09 04:23	1°  ♄39'22	
	2830 Jul 13 08:51	0°  ♄		morning max el	2831 Jun 22 19:08	8°  ♄19'38	23°48'40
asc. node	2830 Jul 26 21:19	20°  ♄26'32			2831 Jul 08 12:39	0°  ♄	
	2830 Jul 31 16:28	0°  ♄		asc. node	2831 Jul 13 18:23	9°  ♄58'20	
morning set	2830 Aug 01 11:07	1°  ♄36'56		morning set	2831 Jul 16 22:44	16°  ♄32'13	
					2831 Jul 23 04:52	0°  ♄	
superior conj	2830 Aug 08 15:58	16°  ♄51'55	1°39'59	superior conj	2831 Jul 23 23:05	1°  ♄38'31	1°29'13
minimum elong	2830 Aug 08 14:27	16°  ♄43'54	1°39'54	minimum elong	2831 Jul 23 20:53	1°  ♄26'38	1°28'58
max. Earth dist.	2830 Aug 12 03:13	24°  ♄04'40	1.34513 AU	max. Earth dist.	2831 Jul 26 03:35	6°  ♄20'04	1.33322 AU
	2830 Aug 15 01:47	0°  ♄		evening rise	2831 Jul 31 10:11	17°  ♄16'44	
evening rise	2830 Aug 16 17:16	3°  ♄13'19			2831 Aug 07 01:28	0°  ♄	
	2830 Sep 01 02:32	0°  ♄		desc. node	2831 Aug 20 12:34	21°  ♄54'00	
desc. node	2830 Sep 02 15:33	2°  ♄21'32			2831 Aug 26 13:25	0°  ♄	
evening max el	2830 Sep 20 16:47	25°  ♄09'12	27°00'02	evening max el	2831 Sep 03 04:19	8°  ♄25'59	27°24'35
	2830 Sep 26 17:33	0°  ♄		retrograde	2831 Sep 16 18:12	15°  ♄43'26	
retrograde	2830 Oct 03 21:57	2°  ♄25'50		evening set	2831 Sep 23 21:35	13°  ♄03'30	
	2830 Oct 10 08:40	30°  ♄		min. Earth dist.	2831 Sep 27 14:12	9°  ♄45'41	0.63954 AU
evening set	2830 Oct 10 17:08	29°  ♄43'27		inferior conj	2831 Sep 30 02:10	7°  ♄10'15	-3°03'50
min. Earth dist.	2830 Oct 14 15:24	25°  ♄51'17	0.65434 AU	minimum elong	2831 Sep 30 07:04	6°  ♄57'31	3°02'11
inferior conj	2830 Oct 16 14:49	23°  ♄35'42	-2°04'52	morning rise	2831 Oct 06 17:44	1°  ♄48'52	
minimum elong	2830 Oct 16 18:13	23°  ♄25'56	2°03'32	direct	2831 Oct 09 06:27	1°  ♄17'00	
morning rise	2830 Oct 22 20:06	17°  ♄58'23		asc. node	2831 Oct 09 17:35	1°  ♄18'06	
asc. node	2830 Oct 22 20:31	17°  ♄57'52		morning max el	2831 Oct 15 19:14	4°  ♄42'25	17°53'42
direct	2830 Oct 25 14:25	17°  ♄16'51			2831 Nov 01 08:44	0°  ♄	
morning max el	2830 Nov 01 02:55	20°  ♄48'05	18°12'33	morning set	2831 Nov 01 15:46	0°  ♄30'11	
	2830 Nov 08 04:51	0°  ♄					
morning set	2830 Nov 19 18:46	18°  ♄36'19		superior conj	2831 Nov 14 09:21	21°  ♄53'10	0°14'21
	2830 Nov 26 18:59	0°  ♄		minimum elong	2831 Nov 14 10:56	21°  ♄59'38	0°14'08
desc. node	2830 Nov 29 14:49	4°  ♄32'14		behind sun begin	2831 Nov 14 06:04	21°  ♄39'48	
				behind sun end	2831 Nov 14 15:47	22°  ♄19'26	
superior conj	2830 Dec 04 13:29	12°  ♄23'43	-0°33'01	desc. node	2831 Nov 16 11:51	25°  ♄18'07	
minimum elong	2830 Dec 04 09:15	12°  ♄07'02	0°32'26		2831 Nov 19 10:05	0°  ♄	
max. Earth dist.	2830 Dec 07 04:57	16°  ♄33'52	1.45118 AU	max. Earth dist.	2831 Nov 19 23:21	0°  ♄52'53	1.44405 AU
	2830 Dec 15 19:04	0°  ♄		evening rise	2831 Nov 30 08:33	17°  ♄06'43	
evening rise	2830 Dec 20 21:55	7°  ♄58'20			2831 Dec 08 19:49	0°  ♄	
greatest brilliancy	2831 Jan 02 00:40	26°  ♄41'27	-0.7m	evening max el	2831 Dec 28 07:40	26°  ♄38'50	20°30'12
	2831 Jan 04 05:36	0°  ♄			2832 Jan 01 06:24	0°  ♄	
evening max el	2831 Jan 14 05:06	13°  ♄08'11	19°30'20	retrograde	2832 Jan 05 08:50	1°  ♄23'29	
asc. node	2831 Jan 18 19:49	16°  ♄41'14					

asc. node	2832 Jan 05 16:52	1°≈22'52		evening set	2832 Dec 23 13:21	13°☾52'13	
evening set	2832 Jan 09 05:38	29°☾57'08		inferior conj	2832 Dec 28 21:43	7°☾34'54	2°01'31
	2832 Jan 09 04:05	30°☾☾		minimum elong	2832 Dec 28 19:23	7°☾42'58	2°00'44
inferior conj	2832 Jan 14 14:53	23°☾49'11	2°40'49	min. Earth dist.	2832 Dec 29 01:14	7°☾22'42	0.67800 AU
minimum elong	2832 Jan 14 12:19	23°☾57'56	2°40'06	morning rise	2833 Jan 03 01:15	1°☾22'47	
min. Earth dist.	2832 Jan 15 06:17	22°☾56'45	0.67349 AU		2833 Jan 05 00:53	30°☾☾	
morning rise	2832 Jan 19 18:50	17°☾35'49		direct	2833 Jan 08 00:53	29°☾14'33	
direct	2832 Jan 25 09:25	15°☾06'34			2833 Jan 11 06:27	0°☾	
morning max el	2832 Feb 05 16:18	21°☾50'43	24°27'22	morning max el	2833 Jan 18 01:51	5°☾11'55	22°58'35
desc. node	2832 Feb 12 11:05	29°☾35'41		desc. node	2833 Jan 29 08:07	18°☾54'50	
	2832 Feb 12 18:50	0°≈			2833 Feb 06 03:16	0°≈	
	2832 Mar 04 10:02	0°☾		morning set	2833 Feb 21 14:57	24°≈14'59	
morning set	2832 Mar 12 14:58	13°☾48'00			2833 Feb 25 00:55	0°☾	
max. Earth dist.	2832 Mar 16 07:05	20°☾20'24	1.37644 AU	max. Earth dist.	2833 Feb 26 02:10	1°☾48'16	1.39799 AU
	2832 Mar 21 11:46	0°☾					
				superior conj	2833 Mar 05 19:30	15°☾32'18	-1°54'00
superior conj	2832 Mar 23 03:35	3°☾10'48	-1°33'17	minimum elong	2833 Mar 05 23:34	15°☾50'59	1°53'42
minimum elong	2832 Mar 23 07:59	3°☾32'03	1°32'43		2833 Mar 13 12:06	0°☾	
evening rise	2832 Mar 31 19:39	20°☾17'28		evening rise	2833 Mar 15 11:25	3°☾46'19	
asc. node	2832 Apr 02 16:12	23°☾57'05		asc. node	2833 Mar 20 13:15	13°☾19'22	
	2832 Apr 05 19:52	0°☾		evening max el	2833 Mar 31 16:13	29°☾48'16	18°30'18
evening max el	2832 Apr 17 12:53	17°☾22'20	19°10'36		2833 Mar 31 21:06	0°☾	
retrograde	2832 Apr 26 10:33	21°☾41'42		retrograde	2833 Apr 08 06:51	3°☾32'56	
evening set	2832 Apr 28 12:34	21°☾28'28		evening set	2833 Apr 10 15:01	3°☾12'48	
inferior conj	2832 May 06 20:02	17°☾17'22	1°01'26		2833 Apr 16 11:05	30°☾☾	
minimum elong	2832 May 06 22:26	17°☾13'17	1°00'36	inferior conj	2833 Apr 18 02:56	28°☾42'51	2°24'34
min. Earth dist.	2832 May 09 18:16	15°☾19'02	0.56389 AU	minimum elong	2833 Apr 18 06:48	28°☾35'10	2°23'32
desc. node	2832 May 10 10:19	14°☾53'16		min. Earth dist.	2833 Apr 21 13:12	26°☾01'06	0.58240 AU
morning rise	2832 May 15 05:14	12°☾24'27		morning rise	2833 Apr 25 19:31	23°☾17'37	
direct	2832 May 20 03:49	11°☾27'42		desc. node	2833 Apr 27 07:20	22°☾38'07	
morning max el	2832 Jun 03 09:30	18°☾45'04	25°27'48	direct	2833 May 01 17:54	21°☾47'07	
	2832 Jun 12 19:39	0°☾		morning max el	2833 May 16 03:13	29°☾27'36	26°48'16
asc. node	2832 Jun 29 15:26	29°☾46'59			2833 May 16 16:20	0°☾	
	2832 Jun 29 17:56	0°☾			2833 Jun 06 14:30	0°☾	
morning set	2832 Jun 30 10:24	1°☾26'40		morning set	2833 Jun 14 20:32	16°☾15'08	
				asc. node	2833 Jun 16 12:30	19°☾47'10	
superior conj	2832 Jul 07 09:29	16°☾33'09	1°13'36		2833 Jun 21 04:58	0°☾	
minimum elong	2832 Jul 07 07:06	16°☾20'09	1°13'13				
max. Earth dist.	2832 Jul 08 10:59	18°☾52'39	1.32538 AU	superior conj	2833 Jun 21 21:14	1°☾29'38	0°53'54
	2832 Jul 13 15:32	0°☾		minimum elong	2833 Jun 21 19:10	1°☾18'13	0°53'30
evening rise	2832 Jul 14 11:30	1°☾43'39		max. Earth dist.	2833 Jun 21 22:19	1°☾35'36	1.32156 AU
	2832 Jul 29 23:25	0°☾		evening rise	2833 Jun 28 18:29	16°☾25'55	
desc. node	2832 Aug 06 09:37	10°☾45'13			2833 Jul 05 13:25	0°☾	
evening max el	2832 Aug 15 12:32	21°☾11'04	27°18'43	desc. node	2833 Jul 24 06:39	28°☾38'15	
retrograde	2832 Aug 29 08:02	28°☾26'29			2833 Jul 25 11:38	0°☾	
evening set	2832 Sep 05 12:24	26°☾01'05		evening max el	2833 Jul 28 15:07	3°☾13'40	26°39'37
min. Earth dist.	2832 Sep 09 02:39	23°☾10'41	0.62143 AU	retrograde	2833 Aug 11 14:12	10°☾25'48	
inferior conj	2832 Sep 12 02:11	20°☾25'43	-3°58'18	evening set	2833 Aug 18 09:01	8°☾28'27	
minimum elong	2832 Sep 12 07:48	20°☾12'45	3°56'51	min. Earth dist.	2833 Aug 22 04:54	5°☾51'56	0.60114 AU
morning rise	2832 Sep 19 04:48	15°☾23'37		inferior conj	2833 Aug 25 11:25	3°☾13'22	-4°41'37
direct	2832 Sep 21 14:32	14°☾58'17		minimum elong	2833 Aug 25 16:01	3°☾04'03	4°40'55
asc. node	2832 Sep 25 14:38	16°☾10'43			2833 Aug 29 20:55	30°☾☾	
morning max el	2832 Sep 28 10:51	18°☾26'26	17°52'58	morning rise	2833 Sep 02 01:02	28°☾33'04	
	2832 Oct 06 19:18	0°☾		direct	2833 Sep 04 10:42	28°☾11'36	
morning set	2832 Oct 14 09:54	13°☾24'30			2833 Sep 09 16:45	0°☾	
	2832 Oct 23 18:17	0°☾		morning max el	2833 Sep 11 22:34	1°☾51'26	18°11'28
				asc. node	2833 Sep 12 11:41	2°☾24'09	
superior conj	2832 Oct 25 07:52	2°☾41'40	0°53'37	morning set	2833 Sep 27 19:13	27°☾02'01	
minimum elong	2832 Oct 25 12:07	2°☾59'49	0°53'03		2833 Sep 29 08:58	0°☾	
max. Earth dist.	2832 Nov 01 13:43	14°☾47'41	1.43050 AU				
desc. node	2832 Nov 02 08:54	16°☾05'41		superior conj	2833 Oct 07 07:41	14°☾43'59	1°21'21
evening rise	2832 Nov 08 19:52	26°☾22'29		minimum elong	2833 Oct 07 11:41	15°☾01'59	1°20'56
	2832 Nov 11 03:52	0°☾		max. Earth dist.	2833 Oct 14 22:37	28°☾04'04	1.41234 AU
	2832 Dec 01 17:53	0°☾			2833 Oct 16 02:09	0°☾	
evening max el	2832 Dec 10 04:38	10°☾10'37	21°41'39	evening rise	2833 Oct 19 23:15	6°☾24'02	
retrograde	2832 Dec 19 06:06	15°☾34'08		desc. node	2833 Oct 20 05:56	6°☾51'08	
asc. node	2832 Dec 22 13:54	14°☾33'46			2833 Nov 04 08:43	0°☾	

evening max el	2833 Nov 22 20:48	23° ♊ 44'40	23°00'12	evening set	2834 Nov 22 01:10	11° ♊ 43'10	
retrograde	2833 Dec 03 00:55	29° ♊ 46'40		asc. node	2834 Nov 26 07:57	6° ♊ 53'01	
evening set	2833 Dec 07 20:24	27° ♊ 48'19		min. Earth dist.	2834 Nov 26 18:03	6° ♊ 19'23	0.67651 AU
asc. node	2833 Dec 09 10:56	26° ♊ 15'14		inferior conj	2834 Nov 27 12:05	5° ♊ 18'50	0°24'03
inferior conj	2833 Dec 13 05:22	21° ♊ 25'26	1°15'32	minimum elong	2834 Nov 27 11:30	5° ♊ 20'47	0°23'48
minimum elong	2833 Dec 13 03:43	21° ♊ 31'08	1°14'53		2834 Dec 01 23:59	30° ♋	
min. Earth dist.	2833 Dec 12 21:57	21° ♊ 51'00	0.67895 AU	morning rise	2834 Dec 02 21:51	29° ♋ 15'28	
morning rise	2833 Dec 18 10:56	15° ♊ 16'34		direct	2834 Dec 06 17:36	27° ♋ 51'57	
direct	2833 Dec 22 20:01	13° ♊ 31'07			2834 Dec 11 21:54	0° ♋	
morning max el	2833 Dec 31 15:44	18° ♊ 40'25	21°33'17	morning max el	2834 Dec 14 12:56	2° ♋ 20'04	20°18'07
	2834 Jan 09 23:49	0° ♋		desc. node	2835 Jan 03 02:11	28° ♋ 54'33	
desc. node	2834 Jan 16 05:08	8° ♋ 43'46			2835 Jan 03 19:32	0° ♋	
	2834 Jan 30 07:25	0° ♋		morning set	2835 Jan 11 07:53	11° ♋ 29'19	
morning set	2834 Feb 01 09:45	3° ♋ 18'34		max. Earth dist.	2835 Jan 21 09:47	27° ♋ 21'36	1.43611 AU
max. Earth dist.	2834 Feb 08 01:52	14° ♋ 06'42	1.41884 AU		2835 Jan 23 01:06	0° ♋	
superior conj	2834 Feb 15 15:04	26° ♋ 54'12	-2°05'21	superior conj	2835 Jan 27 09:37	7° ♋ 06'51	-2°02'08
minimum elong	2834 Feb 15 16:28	27° ♋ 00'20	2°05'19	minimum elong	2835 Jan 27 05:46	6° ♋ 50'59	2°01'59
	2834 Feb 17 09:35	0° ♌		evening rise	2835 Feb 09 00:48	28° ♋ 36'02	
evening rise	2834 Feb 26 14:31	16° ♌ 35'09			2835 Feb 09 20:05	0° ♌	
	2834 Mar 06 02:01	0° ♌		asc. node	2835 Feb 22 07:17	20° ♌ 37'52	
asc. node	2834 Mar 07 10:17	2° ♌ 15'36		evening max el	2835 Feb 26 13:59	25° ♌ 52'25	18°09'05
evening max el	2834 Mar 15 01:40	12° ♌ 41'15	18°10'01	retrograde	2835 Mar 05 01:06	29° ♌ 15'56	
retrograde	2834 Mar 21 21:01	16° ♌ 07'42		evening set	2835 Mar 07 21:00	28° ♌ 35'42	
evening set	2834 Mar 24 11:23	15° ♌ 38'11		inferior conj	2835 Mar 14 03:02	23° ♌ 24'24	3°37'33
inferior conj	2834 Mar 31 06:25	10° ♌ 47'20	3°14'53	minimum elong	2835 Mar 14 03:59	23° ♌ 21'53	3°37'29
minimum elong	2834 Mar 31 09:15	10° ♌ 40'47	3°14'25	min. Earth dist.	2835 Mar 16 22:45	20° ♌ 27'38	0.62499 AU
min. Earth dist.	2834 Apr 03 13:53	7° ♌ 45'43	0.60385 AU	morning rise	2835 Mar 20 09:46	17° ♌ 23'20	
morning rise	2834 Apr 07 04:58	4° ♌ 59'45		direct	2835 Mar 27 07:44	14° ♌ 48'58	
direct	2834 Apr 13 20:08	2° ♌ 53'22		desc. node	2835 Apr 01 01:22	15° ♌ 52'48	
desc. node	2834 Apr 14 04:21	2° ♌ 53'42		morning max el	2835 Apr 10 08:21	22° ♌ 45'34	27°50'05
morning max el	2834 Apr 28 02:53	10° ♌ 45'42	27°37'42		2835 Apr 16 18:17	0° ♍	
	2834 May 13 02:17	0° ♍			2835 May 06 07:00	0° ♍	
	2834 May 29 17:19	0° ♍		morning set	2835 May 14 04:45	15° ♍ 09'17	
morning set	2834 May 30 03:21	0° ♍ 51'46		max. Earth dist.	2835 May 19 18:01	26° ♍ 45'44	1.32584 AU
asc. node	2834 Jun 03 09:34	9° ♍ 54'08		asc. node	2835 May 21 06:35	0° ♍ 02'56	
max. Earth dist.	2834 Jun 05 09:57	14° ♍ 17'45	1.32167 AU		2835 May 21 06:03	0° ♍	
superior conj	2834 Jun 06 08:37	16° ♍ 22'06	0°30'47	superior conj	2835 May 21 17:52	1° ♍ 04'01	0°04'58
minimum elong	2834 Jun 06 07:16	16° ♍ 14'44	0°30'31	minimum elong	2835 May 21 17:37	1° ♍ 02'44	0°04'55
	2834 Jun 12 14:34	0° ♎		behind sun begin	2835 May 21 12:40	0° ♍ 35'49	
evening rise	2834 Jun 13 04:52	1° ♎ 16'08		behind sun end	2835 May 21 22:35	1° ♍ 29'40	
	2834 Jun 28 19:28	0° ♎		evening rise	2835 May 28 16:39	16° ♍ 06'54	
evening max el	2834 Jul 10 10:38	14° ♎ 29'46	25°29'53		2835 Jun 04 14:11	0° ♎	
desc. node	2834 Jul 11 03:39	15° ♎ 09'35		evening max el	2835 Jun 22 00:36	25° ♎ 07'35	23°59'10
retrograde	2834 Jul 24 10:35	21° ♎ 36'55		desc. node	2835 Jun 28 00:40	29° ♎ 46'46	
evening set	2834 Jul 30 06:52	20° ♎ 17'10			2835 Jun 28 10:05	0° ♎	
min. Earth dist.	2834 Aug 03 22:42	17° ♎ 36'46	0.58072 AU	retrograde	2835 Jul 05 18:56	2° ♎ 02'58	
inferior conj	2834 Aug 07 02:29	15° ♎ 24'05	-5°03'09	evening set	2835 Jul 10 05:27	1° ♎ 19'28	
minimum elong	2834 Aug 07 03:24	15° ♎ 22'30	5°03'08		2835 Jul 13 10:12	30° ♏	
morning rise	2834 Aug 15 02:16	11° ♎ 06'22		min. Earth dist.	2835 Jul 16 11:08	28° ♎ 18'33	0.56309 AU
direct	2834 Aug 17 14:48	10° ♎ 46'40		inferior conj	2835 Jul 18 21:16	26° ♎ 49'24	-4°48'26
morning max el	2834 Aug 26 03:06	14° ♎ 48'31	18°50'33	minimum elong	2835 Jul 18 16:31	26° ♎ 56'43	4°47'52
asc. node	2834 Aug 30 08:45	19° ♎ 43'36		morning rise	2835 Jul 27 06:12	22° ♎ 50'53	
	2834 Sep 05 18:05	0° ♏		direct	2835 Jul 29 23:43	22° ♎ 31'37	
morning set	2834 Sep 11 15:12	11° ♏ 10'43		morning max el	2835 Aug 08 21:32	27° ♎ 07'34	19°51'10
					2835 Aug 11 14:58	0° ♏	
superior conj	2834 Sep 20 03:39	27° ♏ 45'58	1°37'51	asc. node	2835 Aug 17 05:47	7° ♏ 53'56	
minimum elong	2834 Sep 20 06:03	27° ♏ 57'21	1°37'42	morning set	2835 Aug 26 18:26	25° ♏ 40'30	
	2834 Sep 21 07:59	0° ♏			2835 Aug 28 21:32	0° ♏	
max. Earth dist.	2834 Sep 27 03:33	10° ♏ 38'53	1.39190 AU	superior conj	2835 Sep 03 14:21	11° ♏ 31'43	1°44'43
evening rise	2834 Oct 01 02:01	17° ♏ 30'34		minimum elong	2835 Sep 03 14:57	11° ♏ 34'41	1°44'42
desc. node	2834 Oct 07 02:58	27° ♏ 31'02		max. Earth dist.	2835 Sep 09 08:24	22° ♏ 40'48	1.37165 AU
	2834 Oct 08 16:19	0° ♐		evening rise	2835 Sep 13 03:29	29° ♏ 39'59	
	2834 Oct 29 19:37	0° ♐			2835 Sep 13 07:56	0° ♐	
evening max el	2834 Nov 05 10:03	7° ♐ 22'53	24°19'50	desc. node	2835 Sep 24 00:00	18° ♐ 00'18	
retrograde	2834 Nov 16 16:02	13° ♐ 57'56					




































































































































	2835 Oct 01 22:44	0° \mathbb{M}		desc. node	2836 Sep 09 21:01	8° \mathbb{A} 13'27	
evening max el	2835 Oct 18 22:12	21° \mathbb{M} 03'24	25°33'39		2836 Sep 25 23:25	0° \mathbb{M}	
retrograde	2835 Oct 31 02:39	28° \mathbb{M} 02'52		evening max el	2836 Sep 30 10:22	4° \mathbb{M} 41'37	26°34'10
evening set	2835 Nov 06 01:59	25° \mathbb{M} 33'20		retrograde	2836 Oct 13 08:13	11° \mathbb{M} 55'26	
min. Earth dist.	2835 Nov 10 11:06	20° \mathbb{M} 44'35	0.67062 AU	evening set	2836 Oct 19 20:53	9° \mathbb{M} 15'30	
inferior conj	2835 Nov 11 16:03	19° \mathbb{M} 11'50	-0°31'45	min. Earth dist.	2836 Oct 23 22:49	5° \mathbb{M} 02'49	0.66125 AU
minimum elong	2835 Nov 11 16:52	19° \mathbb{M} 09'12	0°31'25	inferior conj	2836 Oct 25 15:22	3° \mathbb{M} 01'17	-1°30'31
asc. node	2835 Nov 13 04:58	17° \mathbb{M} 15'49		minimum elong	2836 Oct 25 17:49	2° \mathbb{M} 53'56	1°29'30
morning rise	2835 Nov 17 08:02	13° \mathbb{M} 16'33			2836 Oct 28 06:59	30° \mathbb{R} \mathbb{A}	
direct	2835 Nov 20 16:10	12° \mathbb{M} 12'18		asc. node	2836 Oct 30 02:01	28° \mathbb{A} 20'07	
morning max el	2835 Nov 27 18:01	16° \mathbb{M} 10'12	19°16'51	morning rise	2836 Oct 31 15:22	27° \mathbb{A} 16'43	
	2835 Dec 08 07:50	0° \mathbb{X}		direct	2836 Nov 03 13:57	26° \mathbb{A} 28'09	
greatest brilliancy	2835 Dec 11 14:49	4° \mathbb{X} 56'31	-0.7m	morning max el	2836 Nov 10 05:29	0° \mathbb{M} 06'32	18°31'16
desc. node	2835 Dec 20 23:14	19° \mathbb{X} 20'47			2836 Nov 10 02:52	0° \mathbb{M}	
morning set	2835 Dec 21 08:43	19° \mathbb{X} 57'35		morning set	2836 Nov 30 09:18	29° \mathbb{M} 40'27	
	2835 Dec 27 19:31	0° \mathbb{Z}			2836 Nov 30 14:12	0° \mathbb{X}	
max. Earth dist.	2836 Jan 04 00:36	11° \mathbb{Z} 18'47	1.44752 AU	desc. node	2836 Dec 06 20:16	9° \mathbb{X} 57'28	
superior conj	2836 Jan 07 02:47	16° \mathbb{Z} 12'33	-1°40'08	superior conj	2836 Dec 16 05:04	24° \mathbb{X} 43'09	-1°00'28
minimum elong	2836 Jan 06 18:10	15° \mathbb{Z} 38'21	1°39'24	minimum elong	2836 Dec 15 21:36	24° \mathbb{X} 13'51	0°59'33
	2836 Jan 15 16:27	0° \mathbb{A}		max. Earth dist.	2836 Dec 16 18:49	25° \mathbb{X} 37'08	1.45189 AU
evening rise	2836 Jan 21 14:08	9° \mathbb{A} 42'15			2836 Dec 19 13:50	0° \mathbb{Z}	
	2836 Feb 03 01:19	0° \mathbb{H}		evening rise	2837 Jan 01 04:04	19° \mathbb{Z} 50'48	
asc. node	2836 Feb 09 04:17	8° \mathbb{H} 16'08			2837 Jan 07 13:44	0° \mathbb{A}	
evening max el	2836 Feb 10 02:19	9° \mathbb{H} 14'44	18°26'52	greatest brilliancy	2837 Jan 10 10:34	4° \mathbb{A} 30'56	-0.8m
retrograde	2836 Feb 16 14:38	12° \mathbb{H} 48'19		evening max el	2837 Jan 23 12:13	22° \mathbb{A} 42'19	19°02'29
evening set	2836 Feb 19 16:02	11° \mathbb{H} 56'39		asc. node	2837 Jan 26 01:19	24° \mathbb{A} 57'09	
inferior conj	2836 Feb 25 12:44	6° \mathbb{H} 26'33	3°39'16	retrograde	2837 Jan 30 09:42	26° \mathbb{A} 36'56	
minimum elong	2836 Feb 25 11:59	6° \mathbb{H} 28'44	3°39'14	evening set	2837 Feb 02 17:26	25° \mathbb{A} 32'52	
min. Earth dist.	2836 Feb 27 17:16	3° \mathbb{H} 53'45	0.64353 AU	inferior conj	2837 Feb 08 07:51	19° \mathbb{A} 46'10	3°25'27
morning rise	2836 Mar 02 07:20	0° \mathbb{H} 18'00		minimum elong	2837 Feb 08 05:56	19° \mathbb{A} 52'12	3°25'10
	2836 Mar 02 16:14	30° \mathbb{R} \mathbb{A}		min. Earth dist.	2837 Feb 09 21:00	17° \mathbb{A} 48'53	0.65836 AU
direct	2836 Mar 09 03:15	27° \mathbb{A} 28'47		morning rise	2837 Feb 13 18:07	13° \mathbb{A} 33'56	
	2836 Mar 16 08:00	0° \mathbb{H}		direct	2837 Feb 20 05:33	10° \mathbb{A} 43'40	
desc. node	2836 Mar 17 22:23	1° \mathbb{H} 07'17		desc. node	2837 Mar 04 19:26	18° \mathbb{A} 01'33	
morning max el	2836 Mar 22 17:33	5° \mathbb{H} 21'59	27°26'17	morning max el	2837 Mar 05 03:30	18° \mathbb{A} 21'43	26°32'07
	2836 Apr 10 11:08	0° \mathbb{Y}			2837 Mar 14 23:20	0° \mathbb{H}	
morning set	2836 Apr 26 22:09	28° \mathbb{Y} 59'47			2837 Apr 03 10:37	0° \mathbb{Y}	
	2836 Apr 27 10:23	0° \mathbb{B}		morning set	2837 Apr 10 04:02	12° \mathbb{Y} 12'01	
max. Earth dist.	2836 May 01 18:31	8° \mathbb{B} 47'22	1.33431 AU	max. Earth dist.	2837 Apr 14 07:58	20° \mathbb{Y} 14'56	1.34733 AU
superior conj	2836 May 04 23:07	15° \mathbb{B} 29'37	-0°22'47	superior conj	2837 Apr 18 22:08	29° \mathbb{Y} 31'38	-0°51'14
minimum elong	2836 May 05 00:16	15° \mathbb{B} 35'44	0°22'32	minimum elong	2837 Apr 19 00:47	29° \mathbb{Y} 45'18	0°50'44
asc. node	2836 May 07 03:37	20° \mathbb{B} 09'48			2837 Apr 19 03:38	0° \mathbb{B}	
	2836 May 11 18:09	0° \mathbb{I}		asc. node	2837 Apr 24 00:39	10° \mathbb{B} 10'02	
evening rise	2836 May 12 04:00	0° \mathbb{I} 51'59		evening rise	2837 Apr 26 12:59	15° \mathbb{B} 24'25	
	2836 May 28 17:36	0° \mathbb{E}			2837 May 03 23:47	0° \mathbb{I}	
evening max el	2836 Jun 02 15:27	5° \mathbb{E} 34'42	22°22'42	evening max el	2837 May 15 14:48	16° \mathbb{I} 22'51	20°54'34
desc. node	2836 Jun 13 21:39	11° \mathbb{E} 54'33		retrograde	2837 May 27 04:34	22° \mathbb{I} 01'43	
retrograde	2836 Jun 15 15:22	12° \mathbb{E} 01'30		evening set	2837 May 29 08:02	21° \mathbb{I} 50'49	
evening set	2836 Jun 18 15:22	11° \mathbb{E} 41'36		desc. node	2837 May 31 18:40	21° \mathbb{I} 13'44	
min. Earth dist.	2836 Jun 26 22:10	8° \mathbb{E} 06'42	0.55162 AU	inferior conj	2837 Jun 07 15:56	17° \mathbb{I} 53'04	-1°59'56
inferior conj	2836 Jun 27 22:24	7° \mathbb{E} 32'27	-3°45'34	minimum elong	2837 Jun 07 10:21	18° \mathbb{I} 01'01	1°57'58
minimum elong	2836 Jun 27 14:14	7° \mathbb{E} 44'00	3°43'26	min. Earth dist.	2837 Jun 08 10:20	17° \mathbb{I} 26'56	0.54898 AU
morning rise	2836 Jul 06 15:08	3° \mathbb{E} 41'17		morning rise	2837 Jun 16 12:24	13° \mathbb{I} 49'39	
direct	2836 Jul 09 15:22	3° \mathbb{E} 20'48		direct	2837 Jun 20 00:39	13° \mathbb{I} 23'04	
morning max el	2836 Jul 21 04:28	8° \mathbb{E} 43'06	21°12'25	morning max el	2837 Jul 03 01:07	19° \mathbb{I} 37'14	22°49'28
asc. node	2836 Aug 03 02:51	26° \mathbb{E} 43'17			2837 Jul 11 16:07	0° \mathbb{E}	
	2836 Aug 04 21:15	0° \mathbb{Q}		asc. node	2837 Jul 20 23:55	16° \mathbb{E} 01'48	
morning set	2836 Aug 10 02:25	10° \mathbb{Q} 24'32		morning set	2837 Jul 25 13:13	25° \mathbb{E} 17'06	
					2837 Jul 27 18:36	0° \mathbb{Q}	
superior conj	2836 Aug 17 11:29	25° \mathbb{Q} 48'53	1°43'38				
minimum elong	2836 Aug 17 10:36	25° \mathbb{Q} 44'18	1°43'36	superior conj	2837 Aug 01 15:45	10° \mathbb{Q} 27'18	1°36'04
	2836 Aug 19 12:26	0° \mathbb{P}		minimum elong	2837 Aug 01 13:52	10° \mathbb{Q} 17'20	1°35'54
max. Earth dist.	2836 Aug 21 18:24	4° \mathbb{P} 31'31	1.35376 AU	max. Earth dist.	2837 Aug 04 13:13	16° \mathbb{Q} 33'47	1.33953 AU
evening rise	2836 Aug 25 23:43	12° \mathbb{P} 42'58		evening rise	2837 Aug 09 10:16	26° \mathbb{Q} 27'52	
	2836 Sep 04 17:41	0° \mathbb{A}			2837 Aug 11 05:52	0° \mathbb{P}	




































































































































desc. node	2837 Aug 27 18:01	28° \cap 03'30		morning set	2838 Jul 10 01:02	10° \ominus 12'29	
	2837 Aug 29 01:50	0° $\underline{\cap}$					
evening max el	2837 Sep 12 22:33	18° $\underline{\cap}$ 09'55	27°13'55	superior conj	2838 Jul 17 00:30	25° \ominus 18'12	1°23'08
retrograde	2837 Sep 26 08:20	25° $\underline{\cap}$ 28'27		minimum elong	2838 Jul 16 22:10	25° \ominus 05'31	1°22'49
evening set	2837 Oct 03 07:30	22° $\underline{\cap}$ 45'43		max. Earth dist.	2838 Jul 18 16:52	28° \ominus 56'51	1.32941 AU
min. Earth dist.	2837 Oct 07 03:04	19° $\underline{\cap}$ 08'36	0.64838 AU		2838 Jul 19 04:36	0° Ω	
inferior conj	2837 Oct 09 07:52	16° $\underline{\cap}$ 43'20	-2°30'13	evening rise	2838 Jul 24 07:09	10° Ω 42'45	
minimum elong	2837 Oct 09 11:57	16° $\underline{\cap}$ 32'04	2°28'40		2838 Aug 03 12:41	0° \cap	
morning rise	2837 Oct 15 17:24	11° $\underline{\cap}$ 12'28		desc. node	2838 Aug 14 15:03	17° \cap 20'10	
asc. node	2837 Oct 16 23:06	10° $\underline{\cap}$ 46'09			2838 Aug 25 02:15	0° $\underline{\cap}$	
direct	2837 Oct 18 08:54	10° $\underline{\cap}$ 35'38		evening max el	2838 Aug 26 09:10	1° $\underline{\cap}$ 15'35	27°26'10
morning max el	2837 Oct 24 20:52	14° $\underline{\cap}$ 03'45	18°02'24	retrograde	2838 Sep 09 02:01	8° $\underline{\cap}$ 32'17	
	2837 Nov 05 02:49	0° \cap		evening set	2838 Sep 16 06:40	5° $\underline{\cap}$ 57'16	
morning set	2837 Nov 11 15:19	10° \cap 50'51		min. Earth dist.	2838 Sep 19 21:48	2° $\underline{\cap}$ 51'59	0.63214 AU
	2837 Nov 23 07:04	0° \nearrow		inferior conj	2838 Sep 22 14:50	0° $\underline{\cap}$ 11'07	-3°27'51
desc. node	2837 Nov 23 17:18	0° \nearrow 41'09		minimum elong	2838 Sep 22 20:10	29° \cap 57'52	3°26'12
					2838 Sep 22 19:18	30° \cap \cap	
superior conj	2837 Nov 25 13:15	3° \nearrow 37'12	-0°12'25	morning rise	2838 Sep 29 11:01	24° \cap 57'14	
minimum elong	2837 Nov 25 11:43	3° \nearrow 31'05	0°12'12	direct	2838 Oct 01 22:03	24° \cap 28'32	
behind sun begin	2837 Nov 25 04:39	3° \nearrow 02'53		asc. node	2838 Oct 03 20:11	24° \cap 46'27	
behind sun end	2837 Nov 25 18:46	3° \nearrow 59'15		morning max el	2838 Oct 08 13:13	27° \cap 54'24	17°51'04
max. Earth dist.	2837 Nov 29 13:39	9° \nearrow 59'50	1.44891 AU		2838 Oct 10 10:50	0° $\underline{\cap}$	
evening rise	2837 Dec 11 21:40	29° \nearrow 13'09		morning set	2838 Oct 24 22:08	23° $\underline{\cap}$ 12'54	
	2837 Dec 12 09:48	0° $\overline{\cap}$			2838 Oct 28 19:24	0° \cap	
greatest brilliancy	2837 Dec 25 18:38	20° $\overline{\cap}$ 21'28	-0.6m				
	2838 Jan 01 13:32	0° \approx		superior conj	2838 Nov 05 19:59	13° \cap 38'47	0°32'20
evening max el	2838 Jan 06 17:54	6° \approx 12'46	19°54'13	minimum elong	2838 Nov 05 23:08	13° \cap 51'54	0°31'53
asc. node	2838 Jan 12 22:21	10° \approx 26'43		desc. node	2838 Nov 10 14:20	21° \cap 28'01	
retrograde	2838 Jan 14 07:18	10° \approx 37'03		max. Earth dist.	2838 Nov 12 06:33	24° \cap 10'13	1.43899 AU
evening set	2838 Jan 17 22:49	9° \approx 19'22			2838 Nov 15 22:27	0° \nearrow	
inferior conj	2838 Jan 23 09:23	3° \approx 18'34	2°59'52	evening rise	2838 Nov 21 06:26	8° \nearrow 19'17	
minimum elong	2838 Jan 23 06:54	3° \approx 26'51	2°59'17		2838 Dec 05 16:41	0° $\overline{\cap}$	
min. Earth dist.	2838 Jan 24 08:22	2° \approx 01'56	0.66914 AU	evening max el	2838 Dec 20 18:10	19° $\overline{\cap}$ 44'00	20°59'30
	2838 Jan 25 22:14	30° \cap $\overline{\cap}$		retrograde	2838 Dec 29 05:07	24° $\overline{\cap}$ 44'26	
morning rise	2838 Jan 28 14:46	27° $\overline{\cap}$ 05'05		asc. node	2838 Dec 30 19:25	24° $\overline{\cap}$ 30'21	
direct	2838 Feb 03 13:43	24° $\overline{\cap}$ 25'30		evening set	2839 Jan 02 06:10	23° $\overline{\cap}$ 11'39	
	2838 Feb 13 22:00	0° \approx		inferior conj	2839 Jan 07 14:52	16° $\overline{\cap}$ 59'34	2°25'03
morning max el	2838 Feb 15 12:23	1° \approx 33'14	25°16'29	minimum elong	2839 Jan 07 12:20	17° $\overline{\cap}$ 08'15	2°24'16
desc. node	2838 Feb 19 16:30	6° \approx 07'25		min. Earth dist.	2839 Jan 08 01:06	16° $\overline{\cap}$ 24'21	0.67590 AU
	2838 Mar 09 00:41	0° \cap		morning rise	2839 Jan 12 18:20	10° $\overline{\cap}$ 46'39	
morning set	2838 Mar 23 17:40	24° \cap 32'34		direct	2839 Jan 18 02:42	8° $\overline{\cap}$ 25'41	
	2838 Mar 26 17:14	0° Υ		morning max el	2839 Jan 28 20:47	14° $\overline{\cap}$ 50'10	23°49'41
max. Earth dist.	2838 Mar 27 09:54	1° Υ 17'45	1.36480 AU	desc. node	2839 Feb 06 13:32	25° $\overline{\cap}$ 03'49	
					2839 Feb 10 05:55	0° \approx	
superior conj	2838 Apr 02 12:07	13° Υ 02'40	-1°18'45		2839 Mar 01 23:14	0° \cap	
minimum elong	2838 Apr 02 16:04	13° Υ 22'15	1°18'09	morning set	2839 Mar 05 09:06	5° \cap 44'56	
evening rise	2838 Apr 10 17:26	29° Υ 38'04		max. Earth dist.	2839 Mar 09 05:21	12° \cap 26'38	1.38550 AU
asc. node	2838 Apr 10 21:41	29° Υ 59'34					
	2838 Apr 10 21:46	0° $\overline{\cap}$		superior conj	2839 Mar 16 13:24	25° \cap 53'00	-1°42'56
evening max el	2838 Apr 28 02:10	27° $\overline{\cap}$ 49'48	19°42'57	minimum elong	2839 Mar 16 17:52	26° \cap 14'10	1°42'27
	2838 Apr 30 15:46	0° \cap			2839 Mar 18 17:15	0° Υ	
retrograde	2838 May 07 21:57	2° \cap 35'12		evening rise	2839 Mar 25 14:43	13° Υ 25'44	
evening set	2838 May 09 21:54	2° \cap 24'17		asc. node	2839 Mar 28 18:44	19° Υ 33'37	
	2838 May 15 23:13	30° \cap $\overline{\cap}$			2839 Apr 03 14:02	0° $\overline{\cap}$	
inferior conj	2838 May 18 16:25	28° $\overline{\cap}$ 21'58	-0°00'31	evening max el	2839 Apr 11 00:30	9° $\overline{\cap}$ 56'26	18°51'02
minimum elong	2838 May 18 16:24	28° $\overline{\cap}$ 22'00	0°00'31	retrograde	2839 Apr 19 07:19	13° $\overline{\cap}$ 58'44	
transit middle	2838 May 18 16:24	28° $\overline{\cap}$ 22'00	0°00'31	evening set	2839 Apr 21 12:01	13° $\overline{\cap}$ 42'49	
transit begin	2838 May 18 12:28	28° $\overline{\cap}$ 28'09		inferior conj	2839 Apr 29 10:59	9° $\overline{\cap}$ 24'04	1°40'45
transit end	2838 May 18 20:20	28° $\overline{\cap}$ 15'51		minimum elong	2839 Apr 29 14:25	9° $\overline{\cap}$ 17'51	1°39'40
desc. node	2838 May 18 15:42	28° $\overline{\cap}$ 23'05		min. Earth dist.	2839 May 02 16:24	7° $\overline{\cap}$ 05'09	0.57119 AU
min. Earth dist.	2838 May 21 00:09	26° $\overline{\cap}$ 55'23	0.55604 AU	desc. node	2839 May 05 12:44	5° $\overline{\cap}$ 17'26	
morning rise	2838 May 27 08:26	23° $\overline{\cap}$ 49'25		morning rise	2839 May 07 13:41	4° $\overline{\cap}$ 16'56	
direct	2838 May 31 17:14	23° $\overline{\cap}$ 06'59		direct	2839 May 12 23:05	3° $\overline{\cap}$ 06'48	
morning max el	2838 Jun 14 15:49	0° \cap 05'14	24°31'59	morning max el	2839 May 27 06:54	10° $\overline{\cap}$ 34'45	26°05'08
	2838 Jun 14 13:37	0° \cap			2839 Jun 11 03:28	0° \cap	
	2838 Jul 05 00:39	0° \ominus		morning set	2839 Jun 24 12:17	25° \cap 05'50	
asc. node	2838 Jul 07 20:58	5° \ominus 41'25		asc. node	2839 Jun 24 18:01	25° \cap 36'07	

	2839 Jun 26 19:20	0°☿		superior conj	2840 Jun 14 23:30	25°II10'30	0°44'29
				minimum elong	2840 Jun 14 21:41	25°II00'32	0°44'08
superior conj	2839 Jul 01 11:43	10°☿15'01	1°05'43	max. Earth dist.	2840 Jun 14 14:45	24°II22'16	1.32115 AU
minimum elong	2839 Jul 01 09:25	10°☿02'22	1°05'19		2840 Jun 17 04:05	0°☿	
max. Earth dist.	2839 Jul 02 02:38	11°☿36'59	1.32334 AU	evening rise	2840 Jun 21 19:55	10°☿04'46	
evening rise	2839 Jul 08 11:15	25°☿18'12			2840 Jul 02 01:41	0°♊	
	2839 Jul 10 18:11	0°♊		desc. node	2840 Jul 18 09:04	23°♊11'16	
	2839 Jul 28 03:50	0°♊		evening max el	2840 Jul 20 15:01	25°♊27'21	26°13'08
desc. node	2839 Aug 01 12:04	5°♊49'32			2840 Jul 26 09:17	0°♊	
evening max el	2839 Aug 08 15:33	13°♊45'04	27°06'08	retrograde	2840 Aug 03 14:32	2°♊37'37	
retrograde	2839 Aug 22 12:27	20°♊58'07		evening set	2840 Aug 10 01:42	0°♊55'12	
evening set	2839 Aug 29 14:20	18°♊43'21			2840 Aug 11 16:37	30°♊♊	
min. Earth dist.	2839 Sep 02 05:49	16°♊00'46	0.61307 AU	min. Earth dist.	2840 Aug 14 03:48	28°♊19'38	0.59242 AU
inferior conj	2839 Sep 05 09:03	13°♊16'38	-4°18'32	inferior conj	2840 Aug 17 10:53	25°♊49'32	-4°54'09
minimum elong	2839 Sep 05 14:29	13°♊04'41	4°17'21	minimum elong	2840 Aug 17 14:16	25°♊43'05	4°53'50
morning rise	2839 Sep 12 16:21	8°♊23'17		morning rise	2840 Aug 25 05:00	21°♊19'10	
direct	2839 Sep 15 01:51	7°♊59'44		direct	2840 Aug 27 15:41	20°♊58'36	
asc. node	2839 Sep 20 17:14	10°♊15'31		morning max el	2840 Sep 04 12:35	24°♊45'55	18°25'30
morning max el	2839 Sep 22 03:32	11°♊31'28	17°58'20	asc. node	2840 Sep 06 14:15	26°♊58'53	
	2839 Oct 04 10:28	0°♊			2840 Sep 08 22:07	0°♊	
morning set	2839 Oct 07 23:23	6°♊27'52		morning set	2840 Sep 20 13:41	20°♊20'00	
					2840 Sep 25 14:49	0°♊	
superior conj	2839 Oct 18 05:47	25°♊00'11	1°06'49	superior conj	2840 Sep 29 14:54	7°♊30'20	1°29'38
minimum elong	2839 Oct 18 10:11	25°♊19'25	1°06'18	minimum elong	2840 Sep 29 18:18	7°♊45'59	1°29'20
	2839 Oct 21 03:01	0°♊		max. Earth dist.	2840 Oct 07 02:14	20°♊51'27	1.40380 AU
max. Earth dist.	2839 Oct 25 19:10	7°♊51'59	1.42332 AU	evening rise	2840 Oct 11 12:06	28°♊19'08	
desc. node	2839 Oct 28 11:23	12°♊15'04			2840 Oct 12 12:33	0°♊	
evening rise	2839 Oct 31 23:09	17°♊51'03		desc. node	2840 Oct 14 08:25	2°♊58'45	
	2839 Nov 08 19:37	0°♊			2840 Nov 01 09:17	0°♊	
	2839 Nov 30 12:51	0°♊		evening max el	2840 Nov 15 03:29	16°♊51'54	23°34'15
evening max el	2839 Dec 03 12:58	3°♊16'31	22°14'30	retrograde	2840 Nov 25 18:50	23°♊09'11	
retrograde	2839 Dec 13 01:24	8°♊56'13		evening set	2840 Nov 30 20:03	21°♊03'30	
evening set	2839 Dec 17 13:46	7°♊07'10		asc. node	2840 Dec 03 13:28	18°♊11'43	
asc. node	2839 Dec 17 16:28	7°♊01'36		min. Earth dist.	2840 Dec 05 17:39	15°♊20'25	0.67832 AU
inferior conj	2839 Dec 22 22:14	0°♊47'05	1°42'45	inferior conj	2840 Dec 06 05:41	14°♊39'17	0°54'18
minimum elong	2839 Dec 22 20:08	0°♊54'20	1°41'58	minimum elong	2840 Dec 06 04:26	14°♊43'32	0°53'47
min. Earth dist.	2839 Dec 22 20:58	0°♊51'28	0.67889 AU	morning rise	2840 Dec 11 12:48	8°♊32'38	
	2839 Dec 23 11:50	30°♊♊		direct	2840 Dec 15 15:56	6°♊56'59	
morning rise	2839 Dec 28 02:22	24°♊36'23		morning max el	2840 Dec 24 00:40	11°♊47'45	20°59'50
direct	2840 Jan 01 19:44	22°♊37'54			2841 Jan 07 03:58	0°♊	
morning max el	2840 Jan 11 07:44	28°♊13'47	22°21'26	desc. node	2841 Jan 10 07:37	4°♊35'51	
	2840 Jan 13 00:06	0°♊		morning set	2841 Jan 23 04:37	24°♊10'23	
desc. node	2840 Jan 24 10:34	14°♊36'35			2841 Jan 26 21:12	0°♊	
	2840 Feb 03 22:44	0°♊		max. Earth dist.	2841 Jan 31 05:27	6°♊59'53	1.42671 AU
morning set	2840 Feb 13 20:34	15°♊35'10					
max. Earth dist.	2840 Feb 19 02:14	24°♊15'59	1.40711 AU	superior conj	2841 Feb 07 06:35	18°♊43'20	-2°06'04
	2840 Feb 22 10:36	0°♊		minimum elong	2841 Feb 07 06:01	18°♊40'55	2°06'04
superior conj	2840 Feb 26 21:16	7°♊50'19	-2°00'16		2841 Feb 13 18:52	0°♊	
minimum elong	2840 Feb 27 00:33	8°♊05'02	2°00'05	evening rise	2841 Feb 18 22:04	9°♊08'24	
evening rise	2840 Mar 08 01:33	26°♊38'36		asc. node	2841 Mar 01 12:48	27°♊28'45	
	2840 Mar 09 20:33	0°♊			2841 Mar 03 05:00	0°♊	
asc. node	2840 Mar 14 15:47	8°♊45'40		evening max el	2841 Mar 07 17:44	5°♊35'48	18°07'16
evening max el	2840 Mar 24 06:45	22°♊34'29	18°19'16	retrograde	2841 Mar 14 08:32	8°♊59'40	
retrograde	2840 Mar 31 11:49	26°♊09'46		evening set	2841 Mar 17 01:10	8°♊25'52	
evening set	2840 Apr 02 22:41	25°♊45'50		inferior conj	2841 Mar 23 14:11	3°♊26'14	3°27'28
inferior conj	2840 Apr 10 02:55	21°♊06'41	2°49'44	minimum elong	2841 Mar 23 16:15	3°♊21'11	3°27'13
minimum elong	2840 Apr 10 06:33	20°♊58'58	2°48'55	min. Earth dist.	2841 Mar 26 17:24	0°♊23'39	0.61295 AU
min. Earth dist.	2840 Apr 13 13:17	18°♊13'38	0.59129 AU		2841 Mar 27 03:41	30°♊♊	
morning rise	2840 Apr 17 11:44	15°♊30'41		morning rise	2841 Mar 30 05:34	27°♊31'36	
desc. node	2840 Apr 21 09:45	13°♊59'49		direct	2841 Apr 06 00:38	25°♊11'55	
direct	2840 Apr 23 18:09	13°♊44'57		desc. node	2841 Apr 08 06:46	25°♊26'20	
morning max el	2840 May 08 03:06	21°♊31'08	27°13'46		2841 Apr 16 18:46	0°♊	
	2840 May 15 12:44	0°♊		morning max el	2841 Apr 20 05:38	3°♊07'51	27°47'40
	2840 Jun 03 00:10	0°♊			2841 May 10 00:41	0°♊	
morning set	2840 Jun 07 21:15	9°♊50'23		morning set	2841 May 23 02:02	24°♊19'50	
asc. node	2840 Jun 10 15:03	15°♊39'47			2841 May 25 19:13	0°♊	

asc. node	2841 May 28 12:05	5°♊47'58			2842 May 02 16:06	0°♋	
max. Earth dist.	2841 May 29 01:16	6°♊59'30	1.32289 AU	morning set	2842 May 07 00:23	8°♋26'50	
				max. Earth dist.	2842 May 12 06:17	19°♋15'59	1.32880 AU
superior conj	2841 May 30 10:10	9°♊59'01	0°20'08				
minimum elong	2841 May 30 09:15	9°♊54'01	0°19'56	superior conj	2842 May 14 17:58	24°♋34'48	-0°06'39
evening rise	2841 Jun 06 07:05	24°♊55'34		minimum elong	2842 May 14 18:18	24°♋36'32	0°06'34
	2841 Jun 08 17:17	0°♌		behind sun begin	2842 May 14 13:27	24°♋10'28	
	2841 Jun 26 13:38	0°♍		behind sun end	2842 May 14 23:08	25°♋02'38	
evening max el	2841 Jul 02 07:26	6°♍24'05	24°52'58	asc. node	2842 May 15 09:08	25°♋56'31	
desc. node	2841 Jul 05 06:04	8°♍58'18			2842 May 17 06:09	0°♎	
retrograde	2841 Jul 16 06:25	13°♍28'32		evening rise	2842 May 21 18:53	9°♎44'25	
evening set	2841 Jul 21 13:15	12°♍24'58			2842 Jun 01 06:35	0°♏	
min. Earth dist.	2841 Jul 26 18:52	9°♍37'32	0.57267 AU	evening max el	2842 Jun 13 20:57	16°♏54'09	23°18'06
inferior conj	2841 Jul 29 17:20	7°♍41'10	-5°02'16	desc. node	2842 Jun 22 03:03	22°♏36'31	
minimum elong	2841 Jul 29 15:55	7°♍43'32	5°02'12	retrograde	2842 Jun 27 09:47	23°♏39'55	
morning rise	2841 Aug 06 21:11	3°♍32'43		evening set	2842 Jul 01 04:27	23°♏08'41	
direct	2841 Aug 09 11:26	3°♍13'31		min. Earth dist.	2842 Jul 08 06:43	19°♏54'46	0.55720 AU
morning max el	2841 Aug 18 13:12	7°♍28'18	19°13'41	inferior conj	2842 Jul 10 03:59	18°♏48'10	-4°28'01
asc. node	2841 Aug 24 11:18	14°♍41'37		minimum elong	2842 Jul 09 21:11	18°♏58'13	4°26'46
	2841 Sep 02 04:32	0°♐		morning rise	2842 Jul 18 16:24	14°♏54'24	
morning set	2841 Sep 04 13:03	4°♐38'22		direct	2842 Jul 21 12:20	14°♏34'57	
				morning max el	2842 Aug 01 02:51	19°♏30'02	20°23'19
superior conj	2841 Sep 12 17:43	20°♐52'47	1°41'50		2842 Aug 09 10:03	0°♑	
minimum elong	2841 Sep 12 19:20	21°♐00'37	1°41'45	asc. node	2842 Aug 11 08:22	3°♑10'30	
	2841 Sep 17 13:00	0°♒		morning set	2842 Aug 19 18:39	19°♑15'43	
max. Earth dist.	2841 Sep 19 05:58	3°♒08'08	1.38309 AU		2842 Aug 24 23:46	0°♓	
evening rise	2841 Sep 23 00:50	9°♒53'15					
desc. node	2841 Oct 01 05:25	23°♒34'39		superior conj	2842 Aug 27 09:22	4°♓54'00	1°45'08
	2841 Oct 05 07:54	0°♓		minimum elong	2842 Aug 27 09:17	4°♓53'34	1°45'07
	2841 Oct 28 03:27	0°♊		max. Earth dist.	2842 Sep 01 12:20	15°♓02'33	1.36368 AU
evening max el	2841 Oct 28 15:53	0°♊30'57	24°52'24	evening rise	2842 Sep 05 10:58	22°♓28'12	
retrograde	2841 Nov 09 08:17	7°♊18'29			2842 Sep 09 15:49	0°♌	
evening set	2841 Nov 14 23:21	4°♊57'06		desc. node	2842 Sep 18 02:26	13°♌58'24	
	2841 Nov 19 09:06	30°♋♌			2842 Sep 29 02:25	0°♌	
min. Earth dist.	2841 Nov 19 12:49	29°♌47'52	0.67437 AU	evening max el	2842 Oct 11 04:11	14°♌12'39	26°01'29
inferior conj	2841 Nov 20 11:26	28°♌33'08	0°00'49	retrograde	2842 Oct 23 16:53	21°♌19'22	
minimum elong	2841 Nov 20 11:25	28°♌33'12	0°00'48	evening set	2842 Oct 29 21:56	18°♌45'05	
transit middle	2841 Nov 20 11:25	28°♌33'12	0°00'48	min. Earth dist.	2842 Nov 03 04:03	14°♌11'16	0.66709 AU
transit begin	2841 Nov 20 08:40	28°♌42'19		inferior conj	2842 Nov 04 13:44	12°♌26'02	-0°56'25
transit end	2841 Nov 20 14:10	28°♌24'06		minimum elong	2842 Nov 04 15:13	12°♌21'21	0°55'46
asc. node	2841 Nov 20 10:30	28°♌36'15		asc. node	2842 Nov 07 07:32	9°♌11'11	
morning rise	2841 Nov 25 23:37	22°♌32'45		morning rise	2842 Nov 10 08:54	6°♌34'38	
direct	2841 Nov 29 14:05	21°♌17'58		direct	2842 Nov 13 12:43	5°♌37'26	
morning max el	2841 Dec 07 01:17	25°♌32'21	19°50'09	morning max el	2842 Nov 20 09:17	9°♌25'54	18°55'21
	2841 Dec 10 23:12	0°♊			2842 Dec 05 05:08	0°♋	
desc. node	2841 Dec 28 04:39	24°♊53'51		morning set	2842 Dec 12 09:44	11°♋14'34	
	2841 Dec 31 12:30	0°♌		desc. node	2842 Dec 15 01:42	15°♋25'20	
morning set	2842 Jan 02 00:30	2°♌18'46			2842 Dec 24 08:56	0°♍	
max. Earth dist.	2842 Jan 13 15:57	20°♌32'34	1.44174 AU	max. Earth dist.	2842 Dec 27 08:28	4°♍40'51	1.45037 AU
superior conj	2842 Jan 18 13:51	28°♍25'48	-1°55'13	superior conj	2842 Dec 28 22:40	7°♍11'10	-1°25'06
minimum elong	2842 Jan 18 07:35	28°♍00'25	1°54'50	minimum elong	2842 Dec 28 13:40	6°♍35'40	1°24'09
	2842 Jan 19 13:04	0°♎			2843 Jan 12 05:39	0°♎	
evening rise	2842 Jan 31 23:51	20°♎46'22		evening rise	2843 Jan 13 03:15	1°♎27'32	
	2842 Feb 06 09:53	0°♏			2843 Jan 31 16:48	0°♏	
asc. node	2842 Feb 16 09:48	15°♏33'46		evening max el	2843 Feb 02 18:01	2°♏17'56	18°39'58
evening max el	2842 Feb 19 06:22	18°♏52'22	18°14'27	asc. node	2843 Feb 03 06:50	2°♏49'36	
retrograde	2842 Feb 25 17:01	22°♏18'40		retrograde	2843 Feb 09 09:10	5°♏58'48	
evening set	2842 Feb 28 15:09	21°♏33'49		evening set	2843 Feb 12 13:14	5°♏01'54	
inferior conj	2842 Mar 06 16:50	16°♏14'34	3°40'26		2843 Feb 17 19:12	30°♐♑	
minimum elong	2842 Mar 06 17:01	16°♏14'04	3°40'26	inferior conj	2843 Feb 18 06:56	29°♑24'38	3°34'59
min. Earth dist.	2842 Mar 09 06:26	13°♏25'45	0.63329 AU	minimum elong	2843 Feb 18 05:37	29°♑28'36	3°34'52
morning rise	2842 Mar 12 17:55	10°♏09'43		min. Earth dist.	2843 Feb 20 04:52	27°♑05'59	0.65042 AU
direct	2842 Mar 19 16:05	7°♏26'52		morning rise	2843 Feb 23 21:34	23°♑14'25	
desc. node	2842 Mar 26 03:48	9°♏26'50		direct	2843 Mar 02 14:41	20°♑23'02	
morning max el	2842 Apr 02 12:55	15°♏23'51	27°44'04	desc. node	2843 Mar 13 00:51	25°♑27'39	
	2842 Apr 14 11:35	0°♐		morning max el	2843 Mar 15 22:29	28°♑10'49	27°06'22

	2843 Mar 17 16:21	0° H	direct	2844 Feb 13 19:25	3° \approx 51'03	
	2843 Apr 08 05:44	0° Y	morning max el	2844 Feb 26 08:08	11° \approx 17'17	26°02'01
morning set	2843 Apr 20 13:20	22° Y 02'03	desc. node	2844 Feb 27 21:55	12° \approx 55'48	
	2843 Apr 24 13:56	0° B		2844 Mar 12 06:41	0° H	
max. Earth dist.	2843 Apr 25 02:15	1° B 02'26	1.33927 AU	2844 Mar 30 20:24	0° Y	
			morning set	2844 Apr 02 12:58	4° Y 54'26	
superior conj	2843 Apr 28 20:53	8° B 51'17	-0°34'50	max. Earth dist.	2844 Apr 06 10:57	12° Y 19'13
minimum elong	2843 Apr 28 22:41	9° B 00'40	0°34'29			1.35430 AU
asc. node	2843 May 02 06:10	16° B 01'03		superior conj	2844 Apr 11 16:29	22° Y 41'37
evening rise	2843 May 06 05:28	24° B 24'53		minimum elong	2844 Apr 11 19:44	22° Y 58'09
	2843 May 08 22:32	0° II			2844 Apr 15 06:01	0° B
evening max el	2843 May 26 14:47	27° II 27'11	21°43'39	asc. node	2844 Apr 18 03:13	5° B 57'48
	2843 May 29 13:36	0° E		evening rise	2844 Apr 19 12:52	8° B 50'56
retrograde	2843 Jun 08 01:31	3° E 34'46			2844 May 01 00:16	0° II
desc. node	2843 Jun 09 00:04	3° E 32'44		evening max el	2844 May 07 19:03	8° II 30'35
evening set	2843 Jun 10 14:43	3° E 20'08		retrograde	2844 May 18 14:57	13° II 46'37
	2843 Jun 18 18:04	30° R II		evening set	2844 May 20 15:25	13° II 36'23
min. Earth dist.	2843 Jun 19 17:55	29° II 26'52	0.54928 AU	desc. node	2844 May 25 21:06	11° II 47'43
inferior conj	2843 Jun 20 00:12	29° II 18'04	-3°04'43	inferior conj	2844 May 29 18:53	9° II 38'11
minimum elong	2843 Jun 19 16:24	29° II 28'58	3°02'20	minimum elong	2844 May 29 15:38	9° II 42'55
morning rise	2843 Jun 28 19:15	25° II 24'20		min. Earth dist.	2844 May 31 06:23	8° II 46'18
direct	2843 Jul 01 23:59	25° II 01'54		morning rise	2844 Jun 07 14:41	5° II 24'21
	2843 Jul 13 08:18	0° E		direct	2844 Jun 11 10:41	4° II 52'37
morning max el	2843 Jul 14 04:53	0° E 46'13	21°52'16	morning max el	2844 Jun 24 22:16	11° II 26'19
asc. node	2843 Jul 29 05:26	22° E 13'25			2844 Jul 08 19:36	0° E
	2843 Aug 02 04:38	0° O		asc. node	2844 Jul 15 02:30	11° E 41'50
morning set	2843 Aug 04 04:06	4° O 04'24		morning set	2844 Jul 18 15:32	18° E 58'56
					2844 Jul 23 18:47	0° O
superior conj	2843 Aug 11 09:53	19° O 21'19	1°41'09	superior conj	2844 Jul 25 16:21	4° O 05'49
minimum elong	2843 Aug 11 08:31	19° O 14'08	1°41'04	minimum elong	2844 Jul 25 14:13	3° O 54'22
max. Earth dist.	2843 Aug 15 02:15	26° O 58'01	1.34725 AU	max. Earth dist.	2844 Jul 28 01:09	9° O 09'17
	2843 Aug 16 14:22	0° M		evening rise	2844 Aug 02 05:11	19° O 49'16
evening rise	2843 Aug 19 13:50	5° M 50'45			2844 Aug 07 11:56	0° M
	2843 Sep 02 08:45	0° A		desc. node	2844 Aug 21 20:27	23° M 40'19
desc. node	2843 Sep 04 23:27	4° A 03'04			2844 Aug 26 10:28	0° A
evening max el	2843 Sep 23 16:42	27° A 49'00	26°54'00	evening max el	2844 Sep 05 04:22	11° A 08'46
	2843 Sep 26 02:45	0° M		retrograde	2844 Sep 18 17:17	18° A 26'48
retrograde	2843 Oct 06 20:00	5° M 04'51		evening set	2844 Sep 25 19:49	15° A 45'39
evening set	2843 Oct 13 13:39	2° M 22'51		min. Earth dist.	2844 Sep 29 13:04	12° A 23'09
	2843 Oct 16 02:28	30° R A		inferior conj	2844 Oct 01 23:15	9° A 49'56
min. Earth dist.	2843 Oct 17 12:52	28° A 25'26	0.65630 AU	minimum elong	2844 Oct 02 03:57	9° A 37'31
inferior conj	2843 Oct 19 10:28	26° A 13'22	-1°55'49	morning rise	2844 Oct 08 13:14	4° A 26'08
minimum elong	2843 Oct 19 13:38	26° A 04'12	1°54'33	direct	2844 Oct 11 02:34	3° A 53'07
asc. node	2843 Oct 25 04:37	20° A 47'21		asc. node	2844 Oct 11 01:41	3° A 53'07
morning rise	2843 Oct 25 14:22	20° A 34'06		morning max el	2844 Oct 17 14:56	7° A 18'55
direct	2843 Oct 28 09:44	19° A 50'49			2844 Nov 01 17:34	0° M
morning max el	2843 Nov 03 22:44	23° A 23'26	18°16'50	morning set	2844 Nov 03 16:24	3° M 19'40
	2843 Nov 09 06:44	0° M				
morning set	2843 Nov 22 23:05	21° M 36'19		superior conj	2844 Nov 16 17:13	25° M 03'53
	2843 Nov 28 03:31	0° J		minimum elong	2844 Nov 16 18:05	25° M 07'22
desc. node	2843 Dec 01 22:46	6° J 05'42		behind sun begin	2844 Nov 16 09:00	24° M 30'32
				behind sun end	2844 Nov 17 03:10	25° M 44'08
superior conj	2843 Dec 08 00:45	15° J 44'20	-0°40'21	desc. node	2844 Nov 17 19:47	26° M 51'16
minimum elong	2843 Dec 07 19:36	15° J 23'59	0°39'40		2844 Nov 19 18:45	0° J
max. Earth dist.	2843 Dec 10 03:55	19° J 05'35	1.45162 AU	max. Earth dist.	2844 Nov 21 22:31	3° J 26'18
	2843 Dec 17 03:02	0° Z		evening rise	2844 Dec 02 19:45	20° J 25'45
evening rise	2843 Dec 24 07:45	11° Z 14'43			2844 Dec 09 02:04	0° Z
greatest brilliancy	2844 Jan 04 17:48	28° Z 59'21	-0.7m	evening max el	2844 Dec 30 05:44	29° Z 18'06
	2844 Jan 05 09:44	0° \approx			2844 Dec 30 22:29	0° \approx
evening max el	2844 Jan 17 02:22	15° \approx 47'34	19°22'38	retrograde	2845 Jan 07 03:44	3° \approx 57'29
asc. node	2844 Jan 21 03:52	19° \approx 02'36		asc. node	2845 Jan 07 00:55	3° \approx 57'25
retrograde	2844 Jan 24 05:41	19° \approx 53'34		evening set	2845 Jan 10 23:05	2° \approx 33'26
evening set	2844 Jan 27 16:38	18° \approx 43'40			2845 Jan 13 14:33	30° R Z
inferior conj	2844 Feb 02 05:08	12° \approx 50'29	3°15'51	inferior conj	2845 Jan 16 08:37	26° Z 27'10
minimum elong	2844 Feb 02 02:54	12° \approx 57'41	3°15'26	minimum elong	2845 Jan 16 06:03	26° Z 35'52
min. Earth dist.	2844 Feb 03 11:58	11° \approx 10'31	0.66349 AU	min. Earth dist.	2845 Jan 17 01:55	25° Z 28'28
morning rise	2844 Feb 07 12:57	6° \approx 37'41				0.67247 AU

morning rise	2845 Jan 21 12:50	20°  13'37		morning rise	2846 Jan 05 18:35	3°  59'38	
direct	2845 Jan 27 05:34	17°  41'32		direct	2846 Jan 10 20:31	1°  47'55	
morning max el	2845 Feb 07 16:49	24°  32'25	24°40'21	morning max el	2846 Jan 21 01:54	7°  52'33	23°11'41
	2845 Feb 12 14:50	0° 		desc. node	2846 Jan 31 16:01	20°  39'16	
desc. node	2845 Feb 13 18:58	1°  25'27			2846 Feb 07 07:59	0° 	
	2845 Mar 05 17:40	0° 		morning set	2846 Feb 24 22:00	27°  27'05	
morning set	2845 Mar 15 17:55	16°  48'09			2846 Feb 26 10:19	0° 	
max. Earth dist.	2845 Mar 19 09:32	23°  21'24	1.37333 AU	max. Earth dist.	2846 Mar 01 04:10	4°  42'11	1.39478 AU
	2845 Mar 22 23:13	0° 					
				superior conj	2846 Mar 08 19:56	18°  25'24	-1°51'23
superior conj	2845 Mar 26 01:29	5°  56'14	-1°29'37	minimum elong	2846 Mar 09 00:10	18°  45'01	1°51'01
minimum elong	2845 Mar 26 05:48	6°  17'14	1°29'01		2846 Mar 14 23:08	0° 	
evening rise	2845 Apr 03 14:36	22°  54'28		evening rise	2846 Mar 18 07:51	6°  28'09	
asc. node	2845 Apr 05 00:15	25°  41'26		asc. node	2846 Mar 22 21:16	15°  06'49	
	2845 Apr 07 05:15	0° 			2846 Apr 01 04:57	0° 	
evening max el	2845 Apr 20 11:14	20°  14'20	19°18'20	evening max el	2846 Apr 03 13:21	2°  35'29	18°35'03
retrograde	2845 Apr 29 14:27	24°  40'06		retrograde	2846 Apr 11 07:46	6°  24'03	
evening set	2845 May 01 15:42	24°  27'39		evening set	2846 Apr 13 15:02	6°  05'06	
inferior conj	2845 May 10 02:09	20°  19'09	0°45'57	inferior conj	2846 Apr 21 05:46	1°  38'15	2°14'09
minimum elong	2845 May 10 04:01	20°  16'03	0°45'18	minimum elong	2846 Apr 21 09:37	1°  30'47	2°13'03
desc. node	2845 May 12 18:08	18°  33'31			2846 Apr 23 08:21	30°  R 	
min. Earth dist.	2845 May 12 21:12	18°  28'36	0.56163 AU	min. Earth dist.	2846 Apr 24 15:21	29°  01'39	0.57938 AU
morning rise	2845 May 18 13:20	15°  31'23		morning rise	2846 Apr 29 01:03	26°  17'27	
direct	2845 May 23 08:16	14°  38'43		desc. node	2846 Apr 29 15:10	26°  01'17	
morning max el	2845 Jun 06 12:36	21°  51'52	25°13'48	direct	2846 May 04 20:20	24°  52'16	
	2845 Jun 13 15:51	0° 			2846 May 16 10:50	0° 	
	2845 Jul 01 06:29	0° 		morning max el	2846 May 19 05:24	2°  29'57	26°38'01
asc. node	2845 Jul 01 23:33	1°  28'22			2846 Jun 07 22:53	0° 	
morning set	2845 Jul 03 03:17	3°  53'51		morning set	2846 Jun 17 13:42	18°  43'40	
				asc. node	2846 Jun 18 20:34	21°  27'13	
					2846 Jun 22 19:00	0° 	
superior conj	2845 Jul 10 02:22	18°  25'52	1°16'15				
minimum elong	2845 Jul 09 23:59	18°  46'51	1°15'54	superior conj	2846 Jun 24 13:59	3°  25'40	0°57'08
max. Earth dist.	2845 Jul 11 07:35	21°  29'20	1.32626 AU	minimum elong	2846 Jun 24 11:51	3°  44'51	0°56'44
	2845 Jul 15 04:49	0° 		max. Earth dist.	2846 Jun 24 18:33	4°  21'45	1.32188 AU
evening rise	2845 Jul 17 05:25	4°  13'26		evening rise	2846 Jul 01 11:42	18°  25'41'16	
	2845 Jul 31 04:49	0° 			2846 Jul 06 23:48	0° 	
desc. node	2845 Aug 08 17:28	12°  19'38'52			2846 Jul 26 00:22	0° 	
evening max el	2845 Aug 18 13:16	23°  59'44	27°21'46	desc. node	2846 Jul 26 14:28	0° 	
	2845 Aug 26 22:29	0° 		evening max el	2846 Jul 31 16:56	6°  19'48	26°47'36
retrograde	2845 Sep 01 08:18	1°  15'51		retrograde	2846 Aug 14 15:35	13°  19'22'09	
	2845 Sep 06 11:40	30°  R 		evening set	2846 Aug 21 12:35	11°  19'20'03	
evening set	2845 Sep 08 12:58	28°  19'47'30		min. Earth dist.	2846 Aug 25 06:59	8°  19'42'24	0.60423 AU
min. Earth dist.	2845 Sep 12 03:13	25°  19'53'37	0.62424 AU	inferior conj	2846 Aug 28 12:50	6°  19'01'53	-4°36'13
inferior conj	2845 Sep 15 01:10	23°  19'09'10	-3°50'37	minimum elong	2846 Aug 28 17:44	5°  19'51'43	4°35'23
minimum elong	2845 Sep 15 06:46	22°  19'55'59	3°49'06	morning rise	2846 Sep 05 00:49	1°  19'18'02	
morning rise	2845 Sep 22 02:07	18°  19'03'58		direct	2846 Sep 07 10:19	0° 	
direct	2845 Sep 24 12:03	17°  19'37'54		asc. node	2846 Sep 14 19:47	4°  19'34'50	
asc. node	2845 Sep 27 22:45	18°  19'32'36		morning max el	2846 Sep 14 19:18	4°  19'33'40	18°07'24
morning max el	2845 Oct 01 06:52	21°  19'05'20	17°51'54	morning set	2846 Sep 30 15:11	29°  19'38'42	
	2845 Oct 08 00:21	0° 			2846 Sep 30 19:44	0° 	
morning set	2845 Oct 17 07:50	16°  19'06'33					
	2845 Oct 25 04:18	0° 		superior conj	2846 Oct 10 07:59	17°  19'06'32'48	1°17'53
superior conj	2845 Oct 28 11:41	5°  19'40'46	0°48'21	minimum elong	2846 Oct 10 12:08	17°  19'05'11'21	1°17'26
minimum elong	2845 Oct 28 15:45	5°  19'58'01	0°47'49		2846 Oct 17 11:44	0° 	
max. Earth dist.	2845 Nov 04 13:28	17°  19'25'30	1.43285 AU	max. Earth dist.	2846 Oct 17 23:16	0° 	
desc. node	2845 Nov 04 16:48	17°  19'39'02		desc. node	2846 Oct 22 13:49	8°  19'25'05	
evening rise	2845 Nov 12 05:55	29°  19'38'09		evening rise	2846 Oct 23 06:13	9°  19'31'24	
	2845 Nov 12 11:32	0° 			2846 Nov 05 13:46	0° 	
	2845 Dec 02 18:41	0° 		evening max el	2846 Nov 25 20:23	26°  19'24'00	22°48'14
evening max el	2845 Dec 13 03:32	12°  19'50'03	21°30'25		2846 Nov 29 22:59	0° 	
retrograde	2845 Dec 22 01:13	18°  19'30'7'37		retrograde	2846 Dec 05 20:22	2°  19'30'20'08	
asc. node	2845 Dec 24 21:58	17°  19'32'23'35		evening set	2846 Dec 10 13:58	0°  19'32'24'16	
evening set	2845 Dec 26 06:45	16°  19'30'28'11			2846 Dec 11 01:08	30°  R 	
inferior conj	2845 Dec 31 15:09	10°  19'30'12'06	2°07'59	asc. node	2846 Dec 11 19:00	29°  19'24'16'40	
minimum elong	2845 Dec 31 12:46	10°  19'30'20'23	2°07'10	inferior conj	2846 Dec 15 22:46	24°  19'24'02'06	1°22'55
min. Earth dist.	2845 Dec 31 20:24	9°  19'30'53'55	0.67760 AU	minimum elong	2846 Dec 15 21:00	24°  19'24'08'15	1°22'13

min. Earth dist.	2846 Dec 15 16:58	24°  22'09	0.67909 AU	direct	2847 Dec 09 12:23	0°  24'08	
morning rise	2846 Dec 21 03:53	17°  52'40		morning max el	2847 Dec 17 10:54	4°  57'38	20°28'32
direct	2846 Dec 25 15:08	16°  03'46		desc. node	2848 Jan 05 10:05	0°  32'25	
morning max el	2847 Jan 03 14:51	21°  19'35	21°45'27		2848 Jan 05 01:25	0° 	
	2847 Jan 10 23:35	0° 		morning set	2848 Jan 14 21:04	14°  57'41	
desc. node	2847 Jan 18 13:03	10°  24'30			2848 Jan 24 09:38	0° 	
	2847 Jan 31 14:54	0° 		max. Earth dist.	2848 Jan 24 10:01	0°  01'34	1.43384 AU
morning set	2847 Feb 04 21:02	6°  42'33					
max. Earth dist.	2847 Feb 11 03:01	16°  53'10	1.41592 AU	superior conj	2848 Jan 30 17:22	10°  20'44	-2°03'46
				minimum elong	2848 Jan 30 14:24	10°  08'27	2°03'41
superior conj	2847 Feb 18 18:53	29°  57'25	-2°04'27		2848 Feb 11 05:01	0° 	
minimum elong	2847 Feb 18 20:53	0°  06'10	2°04'24	evening rise	2848 Feb 12 02:11	1°  32'44	
	2847 Feb 18 19:29	0° 		asc. node	2848 Feb 24 15:19	22°  36'01	
evening rise	2847 Mar 01 13:05	19°  23'50		evening max el	2848 Feb 29 10:10	28°  34'19	18°07'59
	2847 Mar 07 08:58	0° 			2848 Mar 02 00:41	0° 	
asc. node	2847 Mar 09 18:17	4°  07'46		retrograde	2848 Mar 06 21:55	1°  57'34	
evening max el	2847 Mar 17 22:06	15°  25'23	18°11'47	evening set	2848 Mar 09 16:59	1°  19'02	
retrograde	2847 Mar 24 19:32	18°  53'32			2848 Mar 11 21:16	30°  R 	
evening set	2847 Mar 27 09:04	18°  25'27		inferior conj	2848 Mar 16 00:41	26°  31'35	3°35'34
inferior conj	2847 Apr 03 06:21	13°  37'35	3°09'11	minimum elong	2848 Mar 16 01:56	26°  30'72	3°35'29
minimum elong	2847 Apr 03 09:25	13°  30'38	3°08'38	min. Earth dist.	2848 Mar 18 22:27	23°  31'42	0.62192 AU
min. Earth dist.	2847 Apr 06 14:54	10°  37'28	0.60058 AU	morning rise	2848 Mar 22 09:33	20°  31'05	
morning rise	2847 Apr 10 07:31	7°  52'49		direct	2848 Mar 29 07:00	17°  34'07	
direct	2847 Apr 16 20:45	5°  51'40		desc. node	2848 Apr 02 09:14	18°  32'47	
desc. node	2847 Apr 16 12:11	5°  52'01		morning max el	2848 Apr 12 08:57	25°  36'41	27°50'42
morning max el	2847 May 01 04:05	13°  42'21	27°32'42		2848 Apr 16 10:15	0° 	
	2847 May 14 04:28	0° 			2848 May 06 15:54	0° 	
	2847 May 31 05:37	0° 		morning set	2848 May 15 23:30	17°  34'52	
morning set	2847 Jun 01 21:08	3°  22'54		max. Earth dist.	2848 May 21 15:24	29°  37'04	1.32495 AU
asc. node	2847 Jun 05 17:35	11°  33'38			2848 May 21 19:40	0° 	
max. Earth dist.	2847 Jun 08 06:29	17°  05'53	1.32142 AU	asc. node	2848 May 22 14:36	1°  42'22	
superior conj	2847 Jun 09 01:32	18°  25'08	0°34'30	superior conj	2848 May 23 11:12	3°  34'14	0°09'03
minimum elong	2847 Jun 09 00:03	18°  42'21	0°34'12	minimum elong	2848 May 23 10:46	3°  31'56	0°08'56
	2847 Jun 14 03:50	0° 		behind sun begin	2848 May 23 06:29	3°  28'34	
evening rise	2847 Jun 15 21:43	3°  24'15		behind sun end	2848 May 23 15:04	3°  25'19	
	2847 Jun 29 22:01	0° 		evening rise	2848 May 30 09:24	18°  35'15	
desc. node	2847 Jul 13 11:28	17°  28'02			2848 Jun 04 23:45	0° 	
evening max el	2847 Jul 13 13:30	17°  32'55	25°41'52	evening max el	2848 Jun 24 03:52	28°  14'37	24°13'23
retrograde	2847 Jul 27 13:21	24°  40'41			2848 Jun 26 02:25	0° 	
evening set	2847 Aug 02 13:59	23°  15'00		desc. node	2848 Jun 29 08:29	2°  24'48	
min. Earth dist.	2847 Aug 07 01:41	20°  36'28	0.58373 AU	retrograde	2848 Jul 07 23:41	5°  12'54	
inferior conj	2847 Aug 10 06:46	18°  18'44	-5°01'55	evening set	2848 Jul 12 15:42	4°  24'26	
minimum elong	2847 Aug 10 08:25	18°  15'47	5°01'50	min. Earth dist.	2848 Jul 18 14:33	1°  27'29	0.56544 AU
morning rise	2847 Aug 18 05:07	13°  25'43			2848 Jul 20 22:39	30°  R 	
direct	2847 Aug 20 17:10	13°  37'47		inferior conj	2848 Jul 21 04:31	29°  25'04'7	-4°53'38
morning max el	2847 Aug 29 01:04	17°  35'25	18°43'20	minimum elong	2848 Jul 21 00:37	29°  26'55	4°53'14
asc. node	2847 Sep 01 16:49	21°  45'14		morning rise	2848 Jul 29 12:12	25°  25'07	
	2847 Sep 07 01:26	0° 		direct	2848 Aug 01 04:50	25°  30'54	
morning set	2847 Sep 14 09:47	13°  43'21			2848 Aug 10 20:51	0° 	
	2847 Sep 22 19:37	0° 		morning max el	2848 Aug 10 21:11	0°  20'46	19°40'48
				asc. node	2848 Aug 18 13:51	9°  48'39	
superior conj	2847 Sep 23 01:17	0°  26'45	1°36'01	morning set	2848 Aug 28 12:06	28°  10'28	
minimum elong	2847 Sep 23 03:57	0°  39'20	1°35'49		2848 Aug 29 09:49	0° 	
max. Earth dist.	2847 Sep 30 04:46	13°  30'01	1.39503 AU				
evening rise	2847 Oct 04 05:20	20°  27'31		superior conj	2848 Sep 05 10:06	14°  47'03	1°44'13
desc. node	2847 Oct 09 10:49	29°  05'49		minimum elong	2848 Sep 05 10:57	14°  47'11	1°44'11
	2847 Oct 10 00:19	0° 		max. Earth dist.	2848 Sep 11 09:10	25°  47'35	1.37455 AU
	2847 Oct 30 17:16	0° 			2848 Sep 13 18:44	0° 	
evening max el	2847 Nov 08 09:54	10°  21'18	24°08'08	evening rise	2848 Sep 15 03:37	2°  28'02	
retrograde	2847 Nov 19 12:04	16°  21'48		desc. node	2848 Sep 25 07:50	19°  26'59	
evening set	2847 Nov 24 19:10	14°  19'17			2848 Oct 02 03:03	0° 	
asc. node	2847 Nov 28 16:02	10°  21'03		evening max el	2848 Oct 20 22:00	23°  41'26	25°23'20
min. Earth dist.	2847 Nov 29 13:13	8°  50'33	0.67710 AU		2848 Oct 29 17:04	0° 	
inferior conj	2847 Nov 30 05:43	7°  54'55	0°32'09	retrograde	2848 Nov 01 23:28	0°  38'20	
minimum elong	2847 Nov 30 04:57	7°  57'30	0°31'50		2848 Nov 05 00:38	30°  R 	
morning rise	2847 Dec 05 14:44	1°  50'45		evening set	2848 Nov 07 20:43	28°  41'04	

min. Earth dist.	2848 Nov 12 06:54	23° \mathbb{M} 16'41	0.67168 AU	inferior conj	2849 Oct 28 10:24	5° \mathbb{M} 38'55	-1°21'31
inferior conj	2848 Nov 13 10:14	21° \mathbb{M} 48'23	-0°23'06	minimum elong	2849 Oct 28 12:36	5° \mathbb{M} 32'15	1°20'35
minimum elong	2848 Nov 13 10:49	21° \mathbb{M} 46'28	0°22'50	asc. node	2849 Nov 01 10:09	1° \mathbb{M} 17'43	
asc. node	2848 Nov 14 13:05	20° \mathbb{M} 22'35		morning rise	2849 Nov 03 09:07	29° \mathbb{Q} 52'30	
morning rise	2848 Nov 19 01:11	15° \mathbb{M} 51'47			2849 Nov 03 03:56	30° \mathbb{R} \mathbb{Q}	
direct	2848 Nov 22 10:51	14° \mathbb{M} 44'59		direct	2849 Nov 06 08:56	29° \mathbb{Q} 01'52	
morning max el	2848 Nov 29 14:57	18° \mathbb{M} 46'50	19°25'01		2849 Nov 09 16:11	0° \mathbb{M}	
	2848 Dec 08 10:57	0° \mathbb{Z}		morning max el	2849 Nov 13 01:37	2° \mathbb{M} 42'42	18°36'58
greatest brilliancy	2848 Dec 13 00:48	6° \mathbb{Z} 45'30	-0.7m		2849 Dec 01 21:45	0° \mathbb{Z}	
desc. node	2848 Dec 22 07:07	20° \mathbb{Z} 56'41		morning set	2849 Dec 03 16:08	2° \mathbb{Z} 48'30	
morning set	2848 Dec 23 19:50	23° \mathbb{Z} 18'45		desc. node	2849 Dec 09 04:09	11° \mathbb{Z} 31'57	
	2848 Dec 28 03:12	0° \mathbb{Z}					
max. Earth dist.	2849 Jan 05 23:49	13° \mathbb{Z} 53'08	1.44621 AU	superior conj	2849 Dec 19 17:18	28° \mathbb{Z} 07'53	-1°07'19
				minimum elong	2849 Dec 19 09:13	27° \mathbb{Z} 36'11	1°06'21
superior conj	2849 Jan 09 13:58	19° \mathbb{Z} 35'19	-1°44'44	max. Earth dist.	2849 Dec 19 17:28	28° \mathbb{Z} 08'33	1.45172 AU
minimum elong	2849 Jan 09 05:48	19° \mathbb{Z} 02'44	1°44'04		2849 Dec 20 21:52	0° \mathbb{Z}	
	2849 Jan 16 00:53	0° \mathbb{Z}		evening rise	2850 Jan 04 12:15	23° \mathbb{Z} 04'06	
evening rise	2849 Jan 23 18:53	12° \mathbb{Z} 47'35			2850 Jan 08 20:29	0° \mathbb{Z}	
	2849 Feb 03 04:54	0° \mathbb{H}		greatest brilliancy	2850 Jan 12 22:30	6° \mathbb{Z} 29'38	-0.8m
asc. node	2849 Feb 10 12:22	10° \mathbb{H} 21'57		evening max el	2850 Jan 26 09:06	25° \mathbb{Z} 22'33	18°56'08
evening max el	2849 Feb 11 22:40	11° \mathbb{H} 55'24	18°23'04	asc. node	2850 Jan 28 09:26	27° \mathbb{Z} 12'37	
retrograde	2849 Feb 18 10:21	15° \mathbb{H} 26'53		retrograde	2850 Feb 02 04:46	29° \mathbb{Z} 13'18	
evening set	2849 Feb 21 10:51	14° \mathbb{H} 37'03		evening set	2850 Feb 05 11:29	28° \mathbb{Z} 11'11	
inferior conj	2849 Feb 27 08:44	9° \mathbb{H} 09'42	3°40'03	inferior conj	2850 Feb 11 02:40	22° \mathbb{Z} 26'57	3°28'20
minimum elong	2849 Feb 27 08:13	9° \mathbb{H} 11'11	3°40'03	minimum elong	2850 Feb 11 00:54	22° \mathbb{Z} 32'29	3°28'06
min. Earth dist.	2849 Mar 01 15:38	6° \mathbb{H} 32'15	0.64097 AU	min. Earth dist.	2850 Feb 12 18:07	20° \mathbb{Z} 23'47	0.65644 AU
morning rise	2849 Mar 05 04:54	3° \mathbb{H} 01'51		morning rise	2850 Feb 16 13:57	16° \mathbb{Z} 15'08	
direct	2849 Mar 12 01:34	0° \mathbb{H} 13'49		direct	2850 Feb 23 03:02	13° \mathbb{Z} 24'03	
desc. node	2849 Mar 20 06:18	3° \mathbb{H} 24'08		desc. node	2850 Mar 07 03:21	20° \mathbb{Z} 05'11	
morning max el	2849 Mar 25 17:51	8° \mathbb{H} 08'36	27°31'54	morning max el	2850 Mar 08 03:45	21° \mathbb{Z} 05'16	26°41'42
	2849 Apr 11 15:48	0° \mathbb{Y}			2850 Mar 15 21:21	0° \mathbb{H}	
	2849 Apr 28 22:09	0° \mathbb{B}			2850 Apr 04 19:32	0° \mathbb{Y}	
morning set	2849 Apr 29 18:19	1° \mathbb{B} 38'56		morning set	2850 Apr 13 02:11	14° \mathbb{Y} 57'43	
max. Earth dist.	2849 May 04 17:11	11° \mathbb{B} 42'35	1.33274 AU	max. Earth dist.	2850 Apr 17 08:17	23° \mathbb{Y} 14'35	1.34507 AU
					2850 Apr 20 16:23	0° \mathbb{B}	
superior conj	2849 May 07 17:12	18° \mathbb{B} 02'33	-0°18'29	superior conj	2850 Apr 21 17:21	2° \mathbb{B} 08'47	-0°46'56
minimum elong	2849 May 07 18:08	18° \mathbb{B} 07'29	0°18'18	minimum elong	2850 Apr 21 19:47	2° \mathbb{B} 21'21	0°46'27
asc. node	2849 May 09 11:39	21° \mathbb{B} 49'41		asc. node	2850 Apr 26 08:43	11° \mathbb{B} 51'26	
	2849 May 13 07:01	0° \mathbb{I}		evening rise	2850 Apr 29 06:26	17° \mathbb{B} 56'10	
evening rise	2849 May 14 20:57	3° \mathbb{I} 21'19			2850 May 05 07:46	0° \mathbb{I}	
	2849 May 29 12:58	0° \mathbb{Q}		evening max el	2850 May 18 15:55	19° \mathbb{I} 25'08	21°06'49
evening max el	2849 Jun 05 18:02	8° \mathbb{Q} 41'00	22°36'50	retrograde	2850 May 30 11:30	25° \mathbb{I} 11'37	
desc. node	2849 Jun 16 05:31	14° \mathbb{Q} 57'05		evening set	2850 Jun 01 16:51	25° \mathbb{I} 00'07	
retrograde	2849 Jun 18 21:57	15° \mathbb{Q} 13'37		desc. node	2850 Jun 03 02:32	24° \mathbb{I} 41'37	
evening set	2849 Jun 22 02:21	14° \mathbb{Q} 51'18		inferior conj	2850 Jun 11 01:41	21° \mathbb{I} 01'55	-2°17'45
min. Earth dist.	2849 Jun 30 01:48	11° \mathbb{Q} 22'12	0.55278 AU	minimum elong	2850 Jun 10 19:22	21° \mathbb{I} 10'50	2°15'34
inferior conj	2849 Jul 01 07:51	10° \mathbb{Q} 39'21	-3°58'15	min. Earth dist.	2850 Jun 11 13:49	20° \mathbb{I} 44'48	0.54872 AU
minimum elong	2849 Jun 30 23:51	10° \mathbb{Q} 50'47	3°56'20	morning rise	2850 Jun 19 21:59	17° \mathbb{I} 01'33	
morning rise	2849 Jul 09 23:33	6° \mathbb{Q} 48'06		direct	2850 Jun 23 08:05	16° \mathbb{I} 36'15	
direct	2849 Jul 12 22:26	6° \mathbb{Q} 28'04		morning max el	2850 Jul 06 03:50	22° \mathbb{I} 43'02	22°34'21
morning max el	2849 Jul 24 05:53	11° \mathbb{Q} 43'10	20°59'10		2850 Jul 12 13:17	0° \mathbb{Q}	
asc. node	2849 Aug 05 10:54	28° \mathbb{Q} 32'45		asc. node	2850 Jul 23 07:58	17° \mathbb{Q} 47'37	
	2849 Aug 06 06:13	0° \mathbb{Q}		morning set	2850 Jul 28 06:05	27° \mathbb{Q} 44'57	
morning set	2849 Aug 12 19:33	12° \mathbb{Q} 52'54			2850 Jul 29 07:43	0° \mathbb{Q}	
superior conj	2849 Aug 20 05:56	28° \mathbb{Q} 20'29	1°44'15	superior conj	2850 Aug 04 09:21	12° \mathbb{Q} 56'42	1°37'35
minimum elong	2849 Aug 20 05:14	28° \mathbb{Q} 16'56	1°44'13	minimum elong	2850 Aug 04 07:35	12° \mathbb{Q} 47'23	1°37'27
	2849 Aug 21 01:20	0° \mathbb{P}		max. Earth dist.	2850 Aug 07 11:32	19° \mathbb{Q} 26'07	1.34140 AU
max. Earth dist.	2849 Aug 24 17:57	7° \mathbb{P} 25'32	1.35619 AU	evening rise	2850 Aug 12 06:07	29° \mathbb{Q} 04'11	
evening rise	2849 Aug 28 21:22	15° \mathbb{P} 24'10			2850 Aug 12 17:33	0° \mathbb{P}	
	2849 Sep 06 02:10	0° \mathbb{Q}		desc. node	2850 Aug 30 01:52	29° \mathbb{P} 47'34	
desc. node	2849 Sep 12 04:51	9° \mathbb{Q} 53'09			2850 Aug 30 05:12	0° \mathbb{Q}	
	2849 Sep 26 16:59	0° \mathbb{M}		evening max el	2850 Sep 15 22:33	20° \mathbb{Q} 51'58	27°09'35
evening max el	2849 Oct 03 10:09	7° \mathbb{M} 20'43	26°26'20	retrograde	2850 Sep 29 06:52	28° \mathbb{Q} 09'58	
retrograde	2849 Oct 16 05:58	14° \mathbb{M} 33'21		evening set	2850 Oct 06 04:42	25° \mathbb{Q} 27'15	
evening set	2849 Oct 22 16:40	11° \mathbb{M} 54'40		min. Earth dist.	2850 Oct 10 01:13	21° \mathbb{Q} 44'48	0.65056 AU
min. Earth dist.	2849 Oct 26 19:39	7° \mathbb{M} 36'28	0.66285 AU				

inferior conj	2850 Oct 12 04:06	19° Ω 22'49	-2°21'10	retrograde	2851 Sep 12 01:25	11° Ω 18'38	
minimum elong	2850 Oct 12 07:57	19° Ω 12'02	2°19'42	evening set	2851 Sep 19 05:46	8° Ω 41'44	
morning rise	2850 Oct 18 12:08	13° Ω 49'32		min. Earth dist.	2851 Sep 22 21:23	5° Ω 32'10	0.63481 AU
asc. node	2850 Oct 19 07:12	13° Ω 30'15		inferior conj	2851 Sep 25 12:38	2° Ω 53'04	-3°19'23
direct	2850 Oct 21 04:32	13° Ω 11'08		minimum elong	2851 Sep 25 17:50	2° Ω 39'56	3°17'45
morning max el	2850 Oct 27 16:34	16° Ω 40'12	18°05'32		2851 Sep 28 13:36	30° \mathbb{R} \mathbb{M}	
	2850 Nov 06 08:53	0° \mathbb{M}		morning rise	2851 Oct 02 07:12	27° \mathbb{M} 36'24	
morning set	2850 Nov 14 17:57	13° \mathbb{M} 46'43		direct	2851 Oct 04 18:47	27° \mathbb{M} 06'38	
	2850 Nov 24 15:40	0° \mathbb{A}		asc. node	2851 Oct 06 04:13	27° \mathbb{M} 16'12	
desc. node	2850 Nov 26 01:11	2° \mathbb{A} 14'47			2851 Oct 10 19:30	0° Ω	
				morning max el	2851 Oct 11 08:56	0° Ω 32'08	17°51'36
superior conj	2850 Nov 28 23:15	6° \mathbb{A} 54'38	-0°19'42	morning set	2851 Oct 27 21:29	25° Ω 59'31	
minimum elong	2850 Nov 28 20:46	6° \mathbb{A} 44'47	0°19'22		2851 Oct 30 04:53	0° \mathbb{M}	
max. Earth dist.	2850 Dec 02 12:30	12° \mathbb{A} 32'01	1.44989 AU				
	2850 Dec 13 17:08	0° \mathbb{B}		superior conj	2851 Nov 09 02:04	16° \mathbb{M} 44'45	0°26'07
evening rise	2850 Dec 15 08:20	2° \mathbb{B} 31'45		minimum elong	2851 Nov 09 04:44	16° \mathbb{M} 55'47	0°25'44
greatest brilliancy	2850 Dec 28 16:02	22° \mathbb{B} 55'00	-0.7m	desc. node	2851 Nov 12 22:13	23° \mathbb{M} 01'23	
	2851 Jan 02 12:59	0° \approx		max. Earth dist.	2851 Nov 15 06:05	26° \mathbb{M} 46'15	1.44092 AU
evening max el	2851 Jan 09 15:31	8° \approx 52'35	19°45'36		2851 Nov 17 06:44	0° \mathbb{A}	
asc. node	2851 Jan 15 06:29	12° \approx 53'43		evening rise	2851 Nov 24 17:27	11° \mathbb{A} 38'08	
retrograde	2851 Jan 17 02:05	13° \approx 11'45			2851 Dec 06 21:19	0° \mathbb{B}	
evening set	2851 Jan 20 16:23	11° \approx 56'06		evening max el	2851 Dec 23 16:36	22° \mathbb{B} 23'49	20°49'02
inferior conj	2851 Jan 26 03:24	5° \approx 57'16	3°04'22	retrograde	2851 Dec 31 23:58	27° \mathbb{B} 18'32	
minimum elong	2851 Jan 26 00:58	6° \approx 05'20	3°03'49	asc. node	2852 Jan 02 03:30	27° \mathbb{B} 11'15	
min. Earth dist.	2851 Jan 27 04:22	4° \approx 34'32	0.66784 AU	evening set	2852 Jan 04 23:32	25° \mathbb{B} 47'57	
morning rise	2851 Jan 31 09:19	29° \mathbb{B} 43'59		inferior conj	2852 Jan 10 08:24	19° \mathbb{B} 37'16	2°30'52
	2851 Jan 31 02:24	30° \mathbb{R} \mathbb{B}		minimum elong	2852 Jan 10 05:51	19° \mathbb{B} 46'01	2°30'05
direct	2851 Feb 06 10:20	27° \mathbb{B} 02'14		min. Earth dist.	2852 Jan 10 20:24	18° \mathbb{B} 56'06	0.67515 AU
	2851 Feb 13 17:10	0° \approx		morning rise	2852 Jan 15 11:59	13° \mathbb{B} 24'15	
morning max el	2851 Feb 18 12:43	4° \approx 15'03	25°28'41	direct	2852 Jan 20 22:33	11° \mathbb{B} 00'18	
desc. node	2851 Feb 22 00:23	8° \approx 01'26		morning max el	2852 Jan 31 21:07	17° \mathbb{B} 31'38	24°02'57
	2851 Mar 10 06:17	0° \mathbb{H}		desc. node	2852 Feb 08 21:26	26° \mathbb{B} 51'22	
morning set	2851 Mar 26 18:34	27° \mathbb{H} 26'43			2852 Feb 11 06:56	0° \approx	
	2851 Mar 28 04:06	0° \mathbb{Y}			2852 Mar 02 07:43	0° \mathbb{H}	
max. Earth dist.	2851 Mar 30 11:47	4° \mathbb{Y} 19'44	1.36194 AU	morning set	2852 Mar 07 13:42	8° \mathbb{H} 50'14	
				max. Earth dist.	2852 Mar 11 07:59	15° \mathbb{H} 26'30	1.38230 AU
superior conj	2851 Apr 05 08:53	15° \mathbb{Y} 45'02	-1°14'45				
minimum elong	2851 Apr 05 12:40	16° \mathbb{Y} 03'56	1°14'08	superior conj	2852 Mar 18 12:17	28° \mathbb{H} 41'56	-1°39'38
	2851 Apr 12 09:31	0° \mathbb{B}		minimum elong	2852 Mar 18 16:46	29° \mathbb{H} 03'17	1°39'06
evening rise	2851 Apr 13 11:42	2° \mathbb{B} 13'07			2852 Mar 19 04:38	0° \mathbb{Y}	
asc. node	2851 Apr 13 05:46	1° \mathbb{B} 43'02		evening rise	2852 Mar 27 10:13	16° \mathbb{Y} 05'09	
	2851 Apr 30 07:13	0° \mathbb{I}		asc. node	2852 Mar 30 02:48	21° \mathbb{Y} 19'47	
evening max el	2851 May 01 01:28	0° \mathbb{I} 45'56	19°52'25		2852 Apr 03 19:17	0° \mathbb{B}	
retrograde	2851 May 11 03:19	5° \mathbb{I} 38'54		evening max el	2852 Apr 12 22:15	12° \mathbb{B} 46'28	18°57'27
evening set	2851 May 13 03:09	5° \mathbb{I} 28'18		retrograde	2852 Apr 21 10:01	16° \mathbb{B} 54'30	
desc. node	2851 May 20 23:34	2° \mathbb{I} 04'57		evening set	2852 Apr 23 13:45	16° \mathbb{B} 39'36	
inferior conj	2851 May 22 00:14	1° \mathbb{I} 27'30	-0°18'05	inferior conj	2852 May 01 15:41	12° \mathbb{B} 23'32	1°27'22
minimum elong	2851 May 21 23:25	1° \mathbb{I} 28'46	0°17'47	minimum elong	2852 May 01 18:50	12° \mathbb{B} 17'59	1°26'20
min. Earth dist.	2851 May 24 03:11	0° \mathbb{I} 09'49	0.55441 AU	min. Earth dist.	2852 May 04 18:54	10° \mathbb{B} 11'34	0.56852 AU
	2851 May 24 09:45	30° \mathbb{R} \mathbb{B}		desc. node	2852 May 06 20:35	8° \mathbb{B} 52'24	
morning rise	2851 May 30 17:32	27° \mathbb{B} 00'15		morning rise	2852 May 09 20:47	7° \mathbb{B} 21'19	
direct	2851 Jun 03 22:56	26° \mathbb{B} 20'56		direct	2852 May 15 02:24	6° \mathbb{B} 16'09	
	2851 Jun 13 22:06	0° \mathbb{I}		morning max el	2852 May 29 09:40	13° \mathbb{B} 40'28	25°52'31
morning max el	2851 Jun 17 18:57	3° \mathbb{I} 13'03	24°16'58		2852 Jun 11 06:43	0° \mathbb{I}	
	2851 Jul 06 10:33	0° \mathbb{E}		morning set	2852 Jun 26 05:14	27° \mathbb{I} 33'50	
asc. node	2851 Jul 10 05:00	7° \mathbb{E} 24'27		asc. node	2852 Jun 26 02:03	27° \mathbb{I} 17'01	
morning set	2851 Jul 12 17:50	12° \mathbb{E} 40'15			2852 Jun 27 08:45	0° \mathbb{E}	
superior conj	2851 Jul 19 17:34	27° \mathbb{E} 46'01	1°25'24	superior conj	2852 Jul 03 04:29	12° \mathbb{E} 41'50	1°08'37
minimum elong	2851 Jul 19 15:16	27° \mathbb{E} 33'34	1°25'07	minimum elong	2852 Jul 03 02:08	12° \mathbb{E} 29'00	1°08'14
	2851 Jul 20 18:19	0° \mathbb{Q}		max. Earth dist.	2852 Jul 03 23:06	14° \mathbb{E} 24'02	1.32399 AU
max. Earth dist.	2851 Jul 21 14:04	1° \mathbb{Q} 46'24	1.33067 AU	evening rise	2852 Jul 10 04:48	27° \mathbb{E} 47'22	
evening rise	2851 Jul 27 01:40	13° \mathbb{Q} 15'07			2852 Jul 11 06:30	0° \mathbb{Q}	
	2851 Aug 04 21:17	0° \mathbb{M}			2852 Jul 28 04:58	0° \mathbb{M}	
desc. node	2851 Aug 16 22:53	19° \mathbb{M} 09'56		desc. node	2852 Aug 02 19:53	7° \mathbb{M} 47'05	
	2851 Aug 25 12:03	0° Ω		evening max el	2852 Aug 10 16:37	16° \mathbb{M} 36'35	27°11'11
evening max el	2851 Aug 29 09:35	4° Ω 01'51	27°26'16	retrograde	2852 Aug 24 12:57	23° \mathbb{M} 50'19	

evening set	2852 Aug 31 16:00	21° \mathbb{M} 31'29		evening set	2853 Aug 13 06:44	3° \mathbb{M} 49'11	
min. Earth dist.	2852 Sep 04 06:51	18° \mathbb{M} 46'33	0.61604 AU	min. Earth dist.	2853 Aug 17 06:17	1° \mathbb{M} 13'43	0.59545 AU
inferior conj	2852 Sep 07 08:55	16° \mathbb{M} 01'48	-4°11'38		2853 Aug 18 20:46	30° \mathbb{R} \mathcal{Q}	
minimum elong	2852 Sep 07 14:28	15° \mathbb{M} 49'24	4°10'21	inferior conj	2853 Aug 20 13:26	28° \mathcal{Q} 40'10	-4°50'19
morning rise	2852 Sep 14 14:36	11° \mathbb{M} 05'22		minimum elong	2853 Aug 20 17:19	28° \mathcal{Q} 32'36	4°49'51
direct	2852 Sep 17 00:08	10° \mathbb{M} 41'14		morning rise	2853 Aug 28 06:00	24° \mathcal{Q} 06'24	
asc. node	2852 Sep 22 01:15	12° \mathbb{M} 32'12		direct	2853 Aug 30 16:15	23° \mathcal{Q} 45'36	
morning max el	2852 Sep 23 23:44	14° \mathbb{M} 11'26	17°56'04	morning max el	2853 Sep 07 09:49	27° \mathcal{Q} 30'03	18°20'09
	2852 Oct 04 19:07	0° \mathcal{Q}		asc. node	2853 Sep 08 22:18	29° \mathcal{Q} 05'22	
morning set	2852 Oct 09 20:19	9° \mathcal{Q} 07'16			2853 Sep 09 16:59	0° \mathbb{M}	
				morning set	2853 Sep 23 08:58	22° \mathbb{M} 54'34	
					2853 Sep 27 02:13	0° \mathcal{Q}	
superior conj	2852 Oct 20 07:57	27° \mathcal{Q} 54'36	1°02'21	superior conj	2853 Oct 02 13:57	10° \mathcal{Q} 15'31	1°26'54
minimum elong	2852 Oct 20 12:20	28° \mathcal{Q} 13'39	1°01'48	minimum elong	2853 Oct 02 17:34	10° \mathcal{Q} 32'05	1°26'33
	2852 Oct 21 12:57	0° \mathbb{M}		max. Earth dist.	2853 Oct 10 03:01	23° \mathcal{Q} 38'17	1.40681 AU
max. Earth dist.	2852 Oct 27 19:26	10° \mathbb{M} 33'13	1.42590 AU		2853 Oct 13 21:37	0° \mathbb{M}	
desc. node	2852 Oct 29 19:13	13° \mathbb{M} 48'27		evening rise	2853 Oct 14 17:27	1° \mathbb{M} 21'56	
evening rise	2852 Nov 03 07:56	21° \mathbb{M} 03'18		desc. node	2853 Oct 16 16:13	4° \mathbb{M} 32'44	
	2852 Nov 09 02:24	0° \mathcal{Q}			2853 Nov 02 12:13	0° \mathcal{Q}	
	2852 Nov 30 07:13	0° \mathcal{Q}		evening max el	2853 Nov 18 03:07	19° \mathcal{Q} 30'36	23°22'19
evening max el	2852 Dec 05 12:05	5° \mathcal{Q} 55'49	22°02'52	retrograde	2853 Nov 28 14:37	25° \mathcal{Q} 42'53	
retrograde	2852 Dec 14 20:38	11° \mathcal{Q} 29'55		evening set	2853 Dec 03 13:47	23° \mathcal{Q} 39'45	
evening set	2852 Dec 19 07:12	9° \mathcal{Q} 43'19		asc. node	2853 Dec 05 21:32	21° \mathcal{Q} 17'13	
asc. node	2852 Dec 19 00:30	9° \mathcal{Q} 56'27		inferior conj	2853 Dec 08 23:09	17° \mathcal{Q} 15'51	1°02'00
inferior conj	2852 Dec 24 15:35	3° \mathcal{Q} 24'02	1°49'36	minimum elong	2853 Dec 08 21:45	17° \mathcal{Q} 20'38	1°01'26
minimum elong	2852 Dec 24 13:24	3° \mathcal{Q} 31'37	1°48'49	min. Earth dist.	2853 Dec 08 12:44	17° \mathcal{Q} 51'36	0.67862 AU
min. Earth dist.	2852 Dec 24 15:56	3° \mathcal{Q} 22'47	0.67866 AU	morning rise	2853 Dec 14 05:40	11° \mathcal{Q} 08'19	
	2852 Dec 27 04:33	30° \mathbb{R} \mathcal{Q}		direct	2853 Dec 18 10:50	9° \mathcal{Q} 29'16	
morning rise	2852 Dec 29 19:28	27° \mathcal{Q} 12'50		morning max el	2853 Dec 26 23:21	14° \mathcal{Q} 26'29	21°11'17
direct	2853 Jan 03 15:00	25° \mathcal{Q} 11'00			2854 Jan 08 07:19	0° \mathcal{Q}	
	2853 Jan 12 09:19	0° \mathcal{Q}		desc. node	2854 Jan 12 15:30	6° \mathcal{Q} 15'06	
morning max el	2853 Jan 13 07:31	0° \mathcal{Q} 54'21	22°34'19	morning set	2854 Jan 26 17:06	27° \mathcal{Q} 37'26	
desc. node	2853 Jan 25 18:28	16° \mathcal{Q} 19'20			2854 Jan 28 05:15	0° \mathcal{Q}	
	2853 Feb 04 04:51	0° \mathcal{Q}		max. Earth dist.	2854 Feb 03 05:56	9° \mathcal{Q} 42'14	1.42406 AU
morning set	2853 Feb 16 05:32	18° \mathcal{Q} 53'01		superior conj	2854 Feb 10 12:01	21° \mathcal{Q} 50'43	-2°06'09
max. Earth dist.	2853 Feb 21 04:07	27° \mathcal{Q} 07'47	1.40396 AU	minimum elong	2854 Feb 10 12:12	21° \mathcal{Q} 51'31	2°06'10
	2853 Feb 22 20:21	0° \mathcal{H}			2854 Feb 15 04:40	0° \mathcal{H}	
superior conj	2853 Feb 28 23:00	10° \mathcal{H} 47'26	-1°58'16	evening rise	2854 Feb 21 21:44	12° \mathcal{H} 00'00	
minimum elong	2853 Mar 01 02:37	11° \mathcal{H} 03'48	1°58'03	asc. node	2854 Mar 03 20:51	29° \mathcal{H} 23'13	
evening rise	2853 Mar 10 22:49	29° \mathcal{H} 23'25			2854 Mar 04 06:09	0° \mathcal{Y}	
	2853 Mar 11 06:34	0° \mathcal{Y}		evening max el	2854 Mar 10 13:59	8° \mathcal{Y} 18'21	18°07'49
asc. node	2853 Mar 16 23:50	10° \mathcal{Y} 35'21		retrograde	2854 Mar 17 06:11	11° \mathcal{Y} 42'48	
evening max el	2853 Mar 27 03:29	25° \mathcal{Y} 19'54	18°22'43	evening set	2854 Mar 19 22:00	11° \mathcal{Y} 10'33	
retrograde	2853 Apr 03 11:42	28° \mathcal{Y} 58'13		inferior conj	2854 Mar 26 13:03	6° \mathcal{Y} 14'01	3°23'26
evening set	2853 Apr 05 21:36	28° \mathcal{Y} 35'43		minimum elong	2854 Mar 26 15:24	6° \mathcal{Y} 08'24	3°23'08
inferior conj	2853 Apr 13 04:26	23° \mathcal{Y} 59'47	2°41'23	min. Earth dist.	2854 Mar 29 17:57	3° \mathcal{Y} 11'11	0.60980 AU
minimum elong	2853 Apr 13 08:12	23° \mathcal{Y} 51'59	2°40'29	morning rise	2854 Apr 02 06:53	0° \mathcal{Y} 21'38	
min. Earth dist.	2853 Apr 16 15:02	21° \mathcal{Y} 10'10	0.58812 AU		2854 Apr 02 20:28	30° \mathbb{R} \mathcal{H}	
morning rise	2853 Apr 20 15:58	18° \mathcal{Y} 27'15		direct	2854 Apr 09 00:48	28° \mathcal{H} 06'17	
desc. node	2853 Apr 23 17:38	17° \mathcal{Y} 12'14		desc. node	2854 Apr 10 14:41	28° \mathcal{H} 13'20	
direct	2853 Apr 26 19:42	16° \mathcal{Y} 46'53			2854 Apr 15 14:23	0° \mathcal{Y}	
morning max el	2853 May 11 04:59	24° \mathcal{Y} 31'26	27°05'34	morning max el	2854 Apr 23 06:31	6° \mathcal{Y} 01'19	27°44'58
	2853 May 16 05:04	0° \mathcal{B}			2854 May 11 06:42	0° \mathcal{B}	
	2853 Jun 04 10:40	0° \mathbb{I}		morning set	2854 May 25 20:11	26° \mathcal{B} 51'38	
morning set	2853 Jun 10 14:38	12° \mathbb{I} 19'42			2854 May 27 08:25	0° \mathbb{I}	
asc. node	2853 Jun 12 23:05	17° \mathbb{I} 19'25		asc. node	2854 May 30 20:08	7° \mathbb{I} 27'03	
superior conj	2853 Jun 17 16:16	27° \mathbb{I} 37'38	0°47'56	max. Earth dist.	2854 May 31 21:54	9° \mathbb{I} 47'11	1.32234 AU
minimum elong	2853 Jun 17 14:21	27° \mathbb{I} 27'05	0°47'33	superior conj	2854 Jun 02 03:14	12° \mathbb{I} 27'32	0°24'01
max. Earth dist.	2853 Jun 17 10:59	27° \mathbb{I} 08'32	1.32119 AU	minimum elong	2854 Jun 02 02:10	12° \mathbb{I} 21'39	0°23'46
	2853 Jun 18 18:06	0° \mathcal{Q}		evening rise	2854 Jun 08 23:50	27° \mathbb{I} 22'54	
evening rise	2853 Jun 24 12:54	12° \mathcal{Q} 32'21			2854 Jun 10 05:38	0° \mathcal{Q}	
	2853 Jun 03 09:48	0° \mathcal{Q}			2854 Jun 27 08:10	0° \mathcal{Q}	
desc. node	2853 Jul 20 16:53	25° \mathcal{Q} 20'34		evening max el	2854 Jul 05 10:35	9° \mathcal{Q} 29'05	25°06'19
evening max el	2853 Jul 23 17:09	28° \mathcal{Q} 25'57	26°23'03	desc. node	2854 Jul 07 13:54	11° \mathcal{Q} 24'06	
	2853 Jul 25 10:45	0° \mathbb{M}					
retrograde	2853 Aug 06 16:35	5° \mathbb{M} 37'06					

retrograde	2854 Jul 19 10:12	16°♎34'48		evening rise	2855 May 24 11:43	12°♊12'54	
evening set	2854 Jul 24 21:54	15°♎25'41			2855 Jun 02 12:50	0°♉	
min. Earth dist.	2854 Jul 29 22:18	12°♎41'01	0.57539 AU	evening max el	2855 Jun 17 00:12	20°♉01'32	23°32'31
inferior conj	2854 Aug 01 22:56	10°♎38'35	-5°03'32	desc. node	2855 Jun 24 10:57	25°♉24'15	
minimum elong	2854 Aug 01 22:23	10°♎39'32	5°03'31	retrograde	2855 Jun 30 15:15	26°♉50'51	
morning rise	2854 Aug 10 01:23	6°♎26'58		evening set	2855 Jul 04 15:24	26°♉15'41	
direct	2854 Aug 12 14:57	6°♎07'39		min. Earth dist.	2855 Jul 11 10:19	23°♉06'35	0.55913 AU
morning max el	2854 Aug 21 11:53	10°♎17'47	19°05'08	inferior conj	2855 Jul 13 12:23	21°♉51'58	-4°36'24
asc. node	2854 Aug 26 19:22	16°♎40'02		minimum elong	2855 Jul 13 06:14	22°♉01'10	4°35'25
	2854 Sep 03 14:58	0°♏		morning rise	2855 Jul 21 23:36	17°♉56'45	
morning set	2854 Sep 07 07:15	7°♏09'43		direct	2855 Jul 24 18:41	17°♉37'22	
				morning max el	2855 Aug 04 03:14	22°♉25'33	20°11'38
superior conj	2854 Sep 15 14:30	23°♏31'03	1°40'35		2855 Aug 10 11:14	0°♏	
minimum elong	2854 Sep 15 16:23	23°♏40'10	1°40'29	asc. node	2855 Aug 13 16:26	5°♏02'26	
	2854 Sep 19 00:27	0°♏		morning set	2855 Aug 22 12:06	21°♏44'32	
max. Earth dist.	2854 Sep 22 07:00	6°♏00'38	1.38617 AU		2855 Aug 26 12:44	0°♏	
evening rise	2854 Sep 26 02:47	12°♏46'32					
desc. node	2854 Oct 03 13:14	25°♏09'58		superior conj	2855 Aug 30 04:31	7°♏26'59	1°45'07
	2854 Oct 06 14:46	0°♏		minimum elong	2855 Aug 30 04:40	7°♏27'44	1°45'07
	2854 Oct 28 15:40	0°♏		max. Earth dist.	2855 Sep 04 12:50	17°♏57'27	1.36644 AU
evening max el	2854 Oct 31 15:49	3°♏09'21	24°41'09	evening rise	2855 Sep 08 10:00	25°♏12'44	
retrograde	2854 Nov 12 04:43	9°♏52'43			2855 Sep 11 01:58	0°♏	
evening set	2854 Nov 17 17:39	7°♏33'42		desc. node	2855 Sep 20 10:15	15°♏35'37	
min. Earth dist.	2854 Nov 22 08:19	2°♏19'16	0.67520 AU		2855 Sep 30 04:04	0°♏	
asc. node	2854 Nov 22 18:35	1°♏45'09		evening max el	2855 Oct 14 04:06	16°♏50'45	25°52'03
inferior conj	2854 Nov 23 05:18	1°♏09'28	0°09'12	retrograde	2855 Oct 26 13:59	23°♏54'55	
minimum elong	2854 Nov 23 05:05	1°♏10'14	0°09'07	evening set	2855 Nov 01 17:04	21°♏22'14	
transit middle	2854 Nov 23 05:05	1°♏10'14	0°09'07	min. Earth dist.	2855 Nov 06 00:15	16°♏43'10	0.66843 AU
transit begin	2854 Nov 23 02:48	1°♏17'49		inferior conj	2855 Nov 07 08:15	15°♏02'17	-0°47'33
transit end	2854 Nov 23 07:21	1°♏02'40		minimum elong	2855 Nov 07 09:30	14°♏58'21	0°47'01
	2854 Nov 24 02:21	30°♏♏		asc. node	2855 Nov 09 15:39	12°♏14'23	
morning rise	2854 Nov 28 16:36	25°♏07'56		morning rise	2855 Nov 13 02:16	9°♏09'26	
direct	2854 Dec 02 08:53	23°♏50'07		direct	2855 Nov 16 07:34	8°♏09'49	
morning max el	2854 Dec 09 22:46	28°♏09'06	19°59'36	morning max el	2855 Nov 23 05:47	12°♏01'15	19°02'29
	2854 Dec 11 16:16	0°♏			2855 Dec 06 11:03	0°♏	
desc. node	2854 Dec 30 12:32	26°♏30'25		morning set	2855 Dec 15 19:07	14°♏29'35	
	2855 Jan 01 19:30	0°♏		desc. node	2855 Dec 17 09:33	16°♏59'41	
morning set	2855 Jan 05 13:15	5°♏44'53			2855 Dec 25 17:08	0°♏	
max. Earth dist.	2855 Jan 16 15:31	23°♏08'46	1.43989 AU	max. Earth dist.	2855 Dec 30 07:35	7°♏13'35	1.44954 AU
	2855 Jan 20 21:44	0°♏					
superior conj	2855 Jan 21 23:16	1°♏43'48	-1°58'06	superior conj	2856 Jan 01 10:39	10°♏34'54	-1°30'48
minimum elong	2855 Jan 21 17:49	1°♏21'37	1°57'49	minimum elong	2856 Jan 01 01:38	9°♏59'15	1°29'54
evening rise	2855 Feb 04 02:36	23°♏46'10			2856 Jan 13 13:48	0°♏	
	2855 Feb 07 17:39	0°♏		evening rise	2856 Jan 16 09:28	4°♏35'37	
asc. node	2855 Feb 18 17:53	17°♏34'50			2856 Feb 01 11:57	0°♏	
evening max el	2855 Feb 22 02:38	21°♏33'36	18°12'12	evening max el	2856 Feb 05 14:35	4°♏57'52	18°35'04
retrograde	2855 Feb 28 13:13	24°♏58'33		asc. node	2856 Feb 05 14:57	4°♏58'47	
evening set	2855 Mar 03 10:35	24°♏15'18		retrograde	2856 Feb 12 04:33	8°♏35'56	
inferior conj	2855 Mar 09 13:43	18°♏58'53	3°39'45	evening set	2856 Feb 15 07:41	7°♏40'49	
minimum elong	2855 Mar 09 14:10	18°♏57'39	3°39'44	inferior conj	2856 Feb 21 02:22	2°♏05'58	3°36'48
min. Earth dist.	2855 Mar 12 05:33	16°♏06'53	0.63044 AU	minimum elong	2856 Feb 21 01:15	2°♏09'18	3°36'42
morning rise	2855 Mar 15 16:43	12°♏55'17			2856 Feb 22 20:31	30°♏♏	
direct	2855 Mar 22 15:02	10°♏15'06		min. Earth dist.	2856 Feb 23 02:34	29°♏42'15	0.64807 AU
desc. node	2855 Mar 28 11:44	11°♏53'06		morning rise	2856 Feb 26 18:19	25°♏56'20	
morning max el	2855 Apr 05 13:12	18°♏12'03	27°46'56	direct	2856 Mar 04 12:32	23°♏05'29	
	2855 Apr 15 11:06	0°♏		desc. node	2856 Mar 14 08:47	27°♏37'54	
	2855 May 04 02:37	0°♏			2856 Mar 17 00:14	0°♏	
morning set	2855 May 09 19:42	11°♏02'47		morning max el	2856 Mar 17 22:41	0°♏55'15	27°13'59
max. Earth dist.	2855 May 15 04:08	22°♏08'16	1.32767 AU		2856 Apr 08 12:41	0°♏	
				morning set	2856 Apr 22 10:16	24°♏43'17	
superior conj	2855 May 17 11:39	27°♏05'57	-0°02'27		2856 Apr 25 02:24	0°♏	
minimum elong	2855 May 17 11:46	27°♏06'36	0°02'26	max. Earth dist.	2856 Apr 27 01:47	4°♏00'06	1.33744 AU
behind sun begin	2855 May 17 06:34	26°♏38'33					
behind sun end	2855 May 17 16:58	27°♏34'41		superior conj	2856 Apr 30 15:25	11°♏25'33	-0°30'31
asc. node	2855 May 17 17:13	27°♏36'05		minimum elong	2856 Apr 30 16:59	11°♏33'46	0°30'11
	2855 May 18 19:48	0°♏		asc. node	2856 May 03 14:14	17°♏41'15	
				evening rise	2856 May 07 22:37	26°♏54'58	

	2856 May 09 10:12	0°♂			2857 Apr 16 18:47	0°♂	
	2856 May 28 04:06	0°♂		asc. node	2857 Apr 20 11:17	7°♂39'14	
evening max el	2856 May 28 16:50	0°♂31'33	21°57'04	evening rise	2857 Apr 22 06:35	11°♂23'09	
retrograde	2856 Jun 10 08:24	6°♂46'10			2857 May 02 02:36	0°♂	
desc. node	2856 Jun 10 08:00	6°♂46'10		evening max el	2857 May 10 19:15	11°♂28'54	20°32'50
evening set	2856 Jun 13 01:06	6°♂29'56		retrograde	2857 May 21 21:32	16°♂53'06	
inferior conj	2856 Jun 22 10:03	2°♂25'40	-3°20'07	evening set	2857 May 23 22:43	16°♂42'47	
minimum elong	2856 Jun 22 01:59	2°♂36'57	3°17'46	desc. node	2857 May 28 05:01	15°♂22'39	
min. Earth dist.	2856 Jun 21 21:20	2°♂43'28	0.54992 AU	inferior conj	2857 Jun 02 03:59	12°♂44'59	-1°27'08
	2856 Jun 27 01:12	30°♂♂		minimum elong	2857 Jun 01 23:52	12°♂50'56	1°25'38
morning rise	2856 Jul 01 04:23	28°♂♂33'20		min. Earth dist.	2857 Jun 03 09:38	12°♂02'08	0.54998 AU
direct	2856 Jul 04 07:29	28°♂♂11'41		morning rise	2857 Jun 11 00:11	8°♂♂35'07	
	2856 Jul 11 02:24	0°♂		direct	2857 Jun 14 17:15	8°♂♂05'27	
morning max el	2856 Jul 16 06:55	3°♂♂48'03	21°38'03	morning max el	2857 Jun 28 01:20	14°♂♂32'30	23°17'59
asc. node	2856 Jul 30 13:29	24°♂♂00'26			2857 Jul 10 00:48	0°♂	
	2856 Aug 02 16:13	0°♂		asc. node	2857 Jul 17 10:31	13°♂♂25'10	
morning set	2856 Aug 05 21:05	6°♂♂31'38		morning set	2857 Jul 21 08:18	21°♂♂25'22	
					2857 Jul 25 08:37	0°♂	
superior conj	2856 Aug 13 03:55	21°♂♂50'47	1°42'09	superior conj	2857 Jul 28 09:38	6°♂♂33'10	1°33'02
minimum elong	2856 Aug 13 02:43	21°♂♂44'29	1°42'06	minimum elong	2857 Jul 28 07:35	6°♂♂22'11	1°32'50
max. Earth dist.	2856 Aug 17 01:22	29°♂♂50'53	1.34945 AU	max. Earth dist.	2857 Jul 30 22:48	11°♂♂58'36	1.33628 AU
	2856 Aug 17 03:11	0°♂		evening rise	2857 Aug 05 00:20	22°♂♂22'12	
evening rise	2856 Aug 21 10:38	8°♂♂28'30			2857 Aug 08 22:54	0°♂	
	2856 Sep 02 15:49	0°♂		desc. node	2857 Aug 24 04:20	25°♂♂25'41	
desc. node	2856 Sep 06 07:18	5°♂♂43'35			2857 Aug 27 09:52	0°♂	
	2856 Sep 25 04:58	0°♂		evening max el	2857 Sep 08 04:20	13°♂♂50'47	27°20'15
evening max el	2856 Sep 25 16:31	0°♂♂28'03	26°47'31	retrograde	2857 Sep 21 16:16	21°♂♂09'17	
retrograde	2856 Oct 08 17:58	7°♂♂43'19		evening set	2857 Sep 28 17:44	18°♂♂27'15	
evening set	2856 Oct 15 09:58	5°♂♂01'52		min. Earth dist.	2857 Oct 02 11:43	14°♂♂59'48	0.64424 AU
min. Earth dist.	2856 Oct 19 10:07	0°♂♂59'12	0.65812 AU	inferior conj	2857 Oct 04 20:03	12°♂♂29'07	-2°46'17
	2856 Oct 20 06:25	30°♂♂♂		minimum elong	2857 Oct 05 00:33	12°♂♂17'03	2°44'41
inferior conj	2856 Oct 21 05:58	28°♂♂50'39	-1°46'45	morning rise	2857 Oct 11 08:29	7°♂♂02'50	
minimum elong	2856 Oct 21 08:52	28°♂♂42'07	1°45'34	asc. node	2857 Oct 13 09:44	6°♂♂30'04	
asc. node	2856 Oct 26 12:42	23°♂♂38'49		direct	2857 Oct 13 22:29	6°♂♂28'36	
morning rise	2856 Oct 27 08:28	23°♂♂09'33		morning max el	2857 Oct 20 10:36	9°♂♂55'05	17°57'30
direct	2856 Oct 30 04:56	22°♂♂24'30			2857 Nov 03 01:57	0°♂	
morning max el	2856 Nov 05 18:38	25°♂♂58'49	18°21'32	morning set	2857 Nov 06 17:31	6°♂♂10'20	
	2856 Nov 09 05:24	0°♂					
morning set	2856 Nov 25 04:02	24°♂♂38'12		superior conj	2857 Nov 20 01:42	28°♂♂16'15	0°00'32
	2856 Nov 28 11:52	0°♂		minimum elong	2857 Nov 20 01:45	28°♂♂16'27	0°00'33
desc. node	2856 Dec 03 06:34	7°♂♂38'53		behind sun begin	2857 Nov 19 15:28	27°♂♂34'58	
				behind sun end	2857 Nov 20 12:02	28°♂♂57'52	
superior conj	2856 Dec 10 12:23	19°♂♂06'11	-0°47'37	desc. node	2857 Nov 20 03:37	28°♂♂23'57	
minimum elong	2856 Dec 10 06:20	18°♂♂42'22	0°46'50		2857 Nov 21 03:30	0°♂	
max. Earth dist.	2856 Dec 12 02:49	21°♂♂37'10	1.45189 AU	max. Earth dist.	2857 Nov 24 21:32	5°♂♂58'50	1.44684 AU
	2856 Dec 17 11:08	0°♂		evening rise	2857 Dec 06 06:55	23°♂♂44'35	
evening rise	2856 Dec 26 17:13	14°♂♂30'19			2857 Dec 10 08:48	0°♂	
	2857 Jan 05 14:52	0°♂		greatest brilliancy	2857 Dec 20 17:50	15°♂♂37'08	-0.6m
greatest brilliancy	2857 Jan 06 09:58	1°♂♂13'43	-0.8m		2857 Dec 31 08:49	0°♂	
evening max el	2857 Jan 18 23:30	18°♂♂26'45	19°15'14	evening max el	2858 Jan 02 03:38	1°♂♂57'03	20°10'58
asc. node	2857 Jan 22 12:00	21°♂♂22'05		asc. node	2858 Jan 09 09:01	6°♂♂29'22	
retrograde	2857 Jan 26 00:38	22°♂♂28'38		retrograde	2858 Jan 09 22:34	6°♂♂31'08	
evening set	2857 Jan 29 10:26	21°♂♂20'47		evening set	2858 Jan 13 16:31	5°♂♂09'22	
inferior conj	2857 Feb 03 23:33	15°♂♂29'44	3°19'29		2858 Jan 18 09:59	30°♂♂♂	
minimum elong	2857 Feb 03 21:25	15°♂♂36'33	3°19'07	inferior conj	2858 Jan 19 02:22	29°♂♂04'55	2°51'11
min. Earth dist.	2857 Feb 05 08:33	13°♂♂43'40	0.66178 AU	minimum elong	2858 Jan 18 23:50	29°♂♂13'30	2°50'32
morning rise	2857 Feb 09 08:09	9°♂♂17'02		min. Earth dist.	2858 Jan 19 21:38	27°♂♂59'55	0.67142 AU
direct	2857 Feb 15 16:23	6°♂♂29'00		morning rise	2858 Jan 24 06:56	22°♂♂51'17	
morning max el	2857 Feb 28 08:31	13°♂♂59'41	26°12'56	direct	2858 Jan 30 01:52	20°♂♂16'24	
desc. node	2857 Mar 01 05:48	14°♂♂54'22		morning max el	2858 Feb 10 17:16	27°♂♂13'38	24°53'06
	2857 Mar 13 09:11	0°♂			2858 Feb 13 07:40	0°♂	
	2857 Apr 01 06:28	0°♂		desc. node	2858 Feb 16 02:49	3°♂♂15'43	
morning set	2857 Apr 05 12:09	7°♂♂42'37			2858 Mar 07 00:58	0°♂	
max. Earth dist.	2857 Apr 09 12:11	15°♂♂20'28	1.35177 AU	morning set	2858 Mar 18 20:15	19°♂♂45'54	
				max. Earth dist.	2858 Mar 22 11:39	26°♂♂21'22	1.37027 AU
superior conj	2857 Apr 14 12:13	25°♂♂19'46	-0°58'56		2858 Mar 24 10:38	0°♂	
minimum elong	2857 Apr 14 15:16	25°♂♂35'19	0°58'22				

superior conj	2858 Mar 28 23:01	8° Υ 40'03	-1°25'51	minimum elong	2859 Mar 12 00:19	21° X 37'13	1°48'09
minimum elong	2858 Mar 29 03:14	9° Υ 00'40	1°25'14		2859 Mar 16 10:27	0° Υ	
evening rise	2858 Apr 06 09:18	25° Υ 30'06		evening rise	2859 Mar 21 04:00	9° Υ 08'42	
asc. node	2858 Apr 07 08:19	27° Υ 25'04		asc. node	2859 Mar 25 05:21	16° Υ 53'35	
	2858 Apr 08 15:38	0° B			2859 Apr 01 23:42	0° B	
evening max el	2858 Apr 23 09:46	23° B 06'47	19°26'34	evening max el	2859 Apr 06 10:38	5° B 22'58	18°40'15
retrograde	2858 May 02 18:42	27° B 39'12		retrograde	2859 Apr 14 09:07	9° B 15'54	
evening set	2858 May 04 19:18	27° B 27'25		evening set	2859 Apr 16 15:29	8° B 58'04	
inferior conj	2858 May 13 08:40	23° B 21'22	0°29'54	inferior conj	2859 Apr 24 09:03	4° B 34'10	2°02'54
minimum elong	2858 May 13 09:56	23° B 19'20	0°29'27	minimum elong	2859 Apr 24 12:49	4° B 27'02	2°01'48
desc. node	2858 May 15 02:01	22° B 14'13		min. Earth dist.	2859 Apr 27 17:35	2° B 03'18	0.57640 AU
min. Earth dist.	2858 May 16 00:08	21° B 38'57	0.55946 AU		2859 Apr 30 22:05	30° $\text{R}\Upsilon$	
morning rise	2858 May 21 21:41	18° B 38'55		desc. node	2859 May 01 23:03	29° Υ 27'29	
direct	2858 May 26 13:01	17° B 50'03		morning rise	2859 May 02 07:00	29° Υ 18'04	
morning max el	2858 Jun 09 15:39	24° B 58'33	24°59'30	direct	2859 May 07 23:00	27° Υ 58'13	
	2858 Jun 14 07:29	0° II			2859 May 15 02:48	0° B	
	2858 Jul 02 18:29	0° E		morning max el	2859 May 22 07:42	5° B 32'43	26°27'08
asc. node	2858 Jul 04 07:33	3° E 09'35			2859 Jun 09 06:14	0° II	
morning set	2858 Jul 05 20:05	6° E 20'46		morning set	2859 Jun 20 06:49	21° II 11'41	
				asc. node	2859 Jun 21 04:35	23° II 07'01	
superior conj	2858 Jul 12 19:14	21° E 26'32	1°18'49		2859 Jun 24 09:00	0° E	
minimum elong	2858 Jul 12 16:52	21° E 13'34	1°18'29	superior conj	2859 Jun 27 06:44	6° E 23'19	1°00'18
max. Earth dist.	2858 Jul 14 04:16	24° E 26'23	1.32725 AU	minimum elong	2859 Jun 27 04:32	6° E 11'08	0°59'53
	2858 Jul 16 18:17	0° Ω		max. Earth dist.	2859 Jun 27 14:51	7° E 08'00	1.32228 AU
evening rise	2858 Jul 19 23:27	6° Ω 43'35		evening rise	2859 Jul 04 04:59	21° E 22'34	
	2858 Aug 01 11:23	0° M			2859 Jul 08 10:52	0° Ω	
desc. node	2858 Aug 11 01:20	14° M 31'12			2859 Jul 26 18:07	0° M	
evening max el	2858 Aug 21 13:52	26° M 47'18	27°24'01	desc. node	2859 Jul 28 22:21	2° M 44'14	
	2858 Aug 25 08:20	0° E		evening max el	2859 Aug 03 18:35	9° M 04'28	26°54'49
retrograde	2858 Sep 04 08:16	4° E 03'48		retrograde	2859 Aug 17 16:41	16° M 16'53	
evening set	2858 Sep 11 13:05	1° E 32'52		evening set	2859 Aug 24 15:37	14° M 10'10	
	2858 Sep 13 13:18	30° RM		min. Earth dist.	2859 Aug 28 08:47	11° M 31'05	0.60735 AU
min. Earth dist.	2858 Sep 15 03:32	28° M 35'08	0.62705 AU	inferior conj	2859 Aug 31 13:50	8° M 48'59	-4°30'21
inferior conj	2858 Sep 17 23:48	25° M 51'38	-3°42'43	minimum elong	2859 Aug 31 18:59	8° M 38'06	4°29'23
minimum elong	2858 Sep 18 05:20	25° M 38'21	3°41'08	morning rise	2859 Sep 08 00:11	4° M 01'39	
morning rise	2858 Sep 24 23:05	20° M 43'18		direct	2859 Sep 10 09:38	3° M 39'12	
direct	2858 Sep 27 09:18	20° M 16'25		asc. node	2859 Sep 17 03:47	6° M 46'11	
asc. node	2858 Sep 30 06:45	20° M 55'42		morning max el	2859 Sep 17 15:52	7° M 14'35	18°03'47
morning max el	2858 Oct 04 02:44	23° M 43'13	17°51'12		2859 Oct 02 06:14	0° E	
	2858 Oct 09 02:59	0° E		morning set	2859 Oct 03 11:22	2° E 15'21	
morning set	2858 Oct 20 06:03	18° E 48'59					
	2858 Oct 26 14:24	0° M		superior conj	2859 Oct 13 08:43	20° E 22'08	1°14'11
superior conj	2858 Oct 31 16:02	8° M 40'46	0°42'51	minimum elong	2859 Oct 13 13:00	20° E 41'06	1°13'41
minimum elong	2858 Oct 31 19:51	8° M 56'49	0°42'20		2859 Oct 18 21:39	0° M	
desc. node	2858 Nov 07 00:38	19° M 11'28		max. Earth dist.	2859 Oct 20 23:50	3° M 31'35	1.41818 AU
max. Earth dist.	2858 Nov 07 13:01	20° M 01'37	1.43514 AU	desc. node	2859 Oct 24 21:39	9° M 57'55	
	2858 Nov 13 19:34	0° X		evening rise	2859 Oct 26 13:40	12° M 39'12	
evening rise	2858 Nov 15 16:15	2° X 54'02			2859 Nov 06 19:37	0° X	
	2858 Dec 03 21:06	0° B		evening max el	2859 Nov 28 19:52	29° X 02'38	22°36'23
evening max el	2858 Dec 16 02:18	15° B 28'49	21°19'23		2859 Nov 29 19:15	0° B	
retrograde	2858 Dec 24 20:10	20° B 40'19		retrograde	2859 Dec 08 15:45	4° B 52'57	
asc. node	2858 Dec 27 06:02	20° B 08'20		evening set	2859 Dec 13 07:30	2° B 59'28	
evening set	2858 Dec 29 00:05	19° B 03'17		asc. node	2859 Dec 14 03:02	2° B 15'45	
inferior conj	2859 Jan 03 08:35	12° B 48'35	2°14'13		2859 Dec 16 03:47	30° RX	
minimum elong	2859 Jan 03 06:07	12° B 57'03	2°13'25	inferior conj	2859 Dec 18 16:10	26° X 38'01	1°30'09
min. Earth dist.	2859 Jan 03 15:34	12° B 24'24	0.67713 AU	minimum elong	2859 Dec 18 14:16	26° X 44'36	1°29'25
morning rise	2859 Jan 08 11:58	6° B 35'53		min. Earth dist.	2859 Dec 18 11:56	26° X 52'39	0.67910 AU
direct	2859 Jan 13 16:10	4° B 20'48		morning rise	2859 Dec 23 20:54	20° X 28'10	
morning max el	2859 Jan 24 01:59	10° B 32'26	23°24'53	direct	2859 Dec 28 10:18	18° X 35'51	
desc. node	2859 Feb 02 23:51	22° B 23'35		morning max el	2860 Jan 06 14:10	23° X 58'28	21°57'54
	2859 Feb 08 12:03	0° \approx			2860 Jan 11 21:23	0° B	
	2859 Feb 27 19:40	0° X		desc. node	2860 Jan 20 20:54	12° B 04'52	
morning set	2859 Feb 28 04:24	0° X 36'46			2860 Feb 01 22:13	0° \approx	
max. Earth dist.	2859 Mar 04 06:17	7° X 36'48	1.39154 AU	morning set	2860 Feb 08 07:49	10° \approx 04'45	
				max. Earth dist.	2860 Feb 14 04:37	19° \approx 41'23	1.41292 AU
superior conj	2859 Mar 11 19:57	21° X 16'51	-1°48'33		2860 Feb 20 05:31	0° X	

superior conj	2860 Feb 21 22:12	2° K 58'37	-2°03'14	evening rise	2861 Feb 14 03:10	4° K 27'43	
minimum elong	2860 Feb 22 00:43	3° K 09'44	2°03'09	asc. node	2861 Feb 25 23:26	24° K 32'46	
evening rise	2860 Mar 03 11:21	22° K 11'07			2861 Mar 02 01:54	0° Y	
	2860 Mar 07 17:13	0° Y		evening max el	2861 Mar 03 06:24	1° Y 15'48	18°07'17
asc. node	2860 Mar 11 02:23	5° Y 58'54		retrograde	2861 Mar 09 19:03	4° Y 39'02	
evening max el	2860 Mar 19 18:38	18° Y 09'16	18°13'57	evening set	2861 Mar 12 13:13	4° Y 02'12	
retrograde	2860 Mar 26 18:26	21° Y 39'33			2861 Mar 17 21:24	30° R K	
evening set	2860 Mar 29 07:05	21° Y 12'56		inferior conj	2861 Mar 18 22:43	28° K 56'43	3°33'05
inferior conj	2860 Apr 05 06:43	16° Y 28'02	3°02'47	minimum elong	2861 Mar 19 00:15	28° K 52'49	3°32'57
minimum elong	2860 Apr 05 10:01	16° Y 20'44	3°02'09	min. Earth dist.	2861 Mar 21 22:27	25° K 56'08	0.61884 AU
min. Earth dist.	2860 Apr 08 16:07	13° Y 29'56	0.59735 AU	morning rise	2861 Mar 25 09:48	22° K 58'36	
morning rise	2860 Apr 12 10:34	10° Y 46'09		direct	2861 Apr 01 06:33	20° K 31'30	
desc. node	2860 Apr 17 20:05	8° Y 53'30		desc. node	2861 Apr 04 17:07	21° K 05'10	
direct	2860 Apr 18 21:36	8° Y 50'24		morning max el	2861 Apr 15 09:43	28° K 28'01	27°50'24
morning max el	2860 May 03 05:32	16° Y 39'26	27°26'49		2861 Apr 16 21:32	0° Y	
	2860 May 14 04:59	0° S			2861 May 08 00:21	0° S	
	2860 May 31 17:40	0° II		morning set	2861 May 18 18:07	20° S 16'56	
morning set	2860 Jun 03 14:50	5° II 52'45			2861 May 23 09:24	0° II	
asc. node	2860 Jun 07 01:40	13° II 12'34		max. Earth dist.	2861 May 24 12:36	2° II 26'26	1.32416 AU
max. Earth dist.	2860 Jun 10 03:00	19° II 52'47	1.32126 AU	asc. node	2861 May 24 22:44	3° II 21'17	
superior conj	2860 Jun 10 18:25	21° II 17'35	0°38'09	superior conj	2861 May 26 04:30	6° II 03'12	0°13'03
minimum elong	2860 Jun 10 16:48	21° II 08'45	0°37'49	minimum elong	2861 May 26 03:54	5° II 59'53	0°12'56
	2860 Jun 14 17:33	0° S		behind sun begin	2861 May 26 00:53	5° II 43'30	
evening rise	2860 Jun 17 14:36	6° S 11'22		behind sun end	2861 May 26 06:54	6° II 16'16	
	2860 Jun 30 02:43	0° Q		evening rise	2861 Jun 02 02:11	21° II 02'29	
desc. node	2860 Jul 14 19:22	19° Q 43'12			2861 Jun 06 10:28	0° S	
evening max el	2860 Jul 15 16:11	20° Q 34'01	25°53'21		2861 Jun 25 23:00	0° Q	
retrograde	2860 Jul 29 15:52	27° Q 42'33		evening max el	2861 Jun 27 07:07	1° Q 20'22	24°27'27
evening set	2860 Aug 04 20:33	26° Q 10'52		desc. node	2861 Jul 01 16:23	4° Q 58'40	
min. Earth dist.	2860 Aug 09 04:31	23° Q 33'50	0.58675 AU	retrograde	2861 Jul 11 04:17	8° Q 21'17	
inferior conj	2860 Aug 12 10:36	21° Q 11'25	-4°59'53	evening set	2861 Jul 16 01:39	7° Q 27'41	
minimum elong	2860 Aug 12 12:55	21° Q 07'10	4°59'44	min. Earth dist.	2861 Jul 21 18:03	4° Q 34'23	0.56783 AU
morning rise	2860 Aug 20 07:29	16° Q 47'09		inferior conj	2861 Jul 24 11:23	2° Q 50'29	-4°57'45
direct	2860 Aug 22 19:03	16° Q 27'00		minimum elong	2861 Jul 24 08:22	2° Q 55'19	4°57'31
morning max el	2860 Aug 30 22:50	20° Q 20'39	18°36'39		2861 Jul 29 09:24	30° R S	
asc. node	2860 Sep 03 00:51	23° Q 47'03		morning rise	2861 Aug 01 17:46	28° S 47'24	
	2860 Sep 07 07:04	0° M		direct	2861 Aug 04 09:32	28° S 28'14	
morning set	2860 Sep 16 04:32	16° M 15'41			2861 Aug 09 23:55	0° Q	
	2860 Sep 23 07:24	0° Q		morning max el	2861 Aug 13 20:38	2° Q 52'31	19°30'55
superior conj	2860 Sep 24 23:15	3° Q 07'53	1°33'56	asc. node	2861 Aug 20 21:56	11° Q 43'38	
minimum elong	2860 Sep 25 02:11	3° Q 21'37	1°33'42		2861 Aug 30 21:53	0° M	
max. Earth dist.	2860 Oct 02 05:58	16° Q 19'41	1.39811 AU	morning set	2861 Aug 31 05:56	0° M 40'20	
evening rise	2860 Oct 06 09:10	23° Q 25'08		superior conj	2861 Sep 08 06:08	16° M 42'46	1°43'31
	2860 Oct 10 08:52	0° M		minimum elong	2861 Sep 08 07:15	16° M 48'17	1°43'29
desc. node	2860 Oct 10 18:41	0° M 39'40		max. Earth dist.	2861 Sep 14 10:03	28° M 28'48	1.37747 AU
	2860 Oct 30 17:03	0° S			2861 Sep 15 05:52	0° Q	
evening max el	2860 Nov 10 09:41	12° S 39'08	23°56'23	evening rise	2861 Sep 18 04:14	5° Q 17'02	
retrograde	2860 Nov 21 08:05	19° S 05'09		desc. node	2861 Sep 27 15:42	21° Q 12'52	
evening set	2860 Nov 26 13:09	16° S 54'56			2861 Oct 03 08:21	0° M	
asc. node	2860 Nov 30 00:05	13° S 08'20		evening max el	2861 Oct 23 21:50	26° M 19'01	25°12'42
inferior conj	2860 Dec 01 23:20	10° S 30'32	0°40'11		2861 Oct 28 03:08	0° S	
minimum elong	2860 Dec 01 22:24	10° S 33'44	0°39'47	retrograde	2861 Nov 04 20:16	3° S 13'03	
min. Earth dist.	2860 Dec 01 08:23	11° S 21'14	0.67759 AU	evening set	2861 Nov 10 15:22	0° S 47'28	
morning rise	2860 Dec 07 07:39	4° S 25'33			2861 Nov 11 12:08	30° R M	
direct	2860 Dec 11 07:11	2° S 55'51		min. Earth dist.	2861 Nov 15 02:38	25° M 48'07	0.67269 AU
morning max el	2860 Dec 19 09:08	7° S 35'05	20°39'15	inferior conj	2861 Nov 16 04:21	24° M 24'24	-0°14'27
	2861 Jan 05 06:58	0° S		minimum elong	2861 Nov 16 04:42	24° M 23'12	0°14'18
desc. node	2861 Jan 06 17:56	2° S 09'43		transit middle	2861 Nov 16 04:42	24° M 23'12	0°14'18
morning set	2861 Jan 17 10:16	18° S 25'42		transit begin	2861 Nov 16 03:24	24° M 27'28	
	2861 Jan 24 18:14	0° S		transit end	2861 Nov 16 06:01	24° M 18'57	
max. Earth dist.	2861 Jan 26 10:25	2° S 41'50	1.43145 AU	asc. node	2861 Nov 16 21:08	23° M 29'57	
superior conj	2861 Feb 02 00:33	13° S 32'26	-2°04'59	morning rise	2861 Nov 21 18:17	18° M 26'27	
minimum elong	2861 Feb 01 22:28	13° S 23'45	2°04'56	direct	2861 Nov 25 05:34	17° M 16'59	
	2861 Feb 11 14:25	0° K		morning max el	2861 Dec 02 12:02	21° M 23'01	19°33'29
					2861 Dec 09 12:35	0° S	

greatest brilliancy	2861 Dec 15 17:03	8° ♄ 57'35	-0.7m			2862 Dec 03 05:06	0° ♄	
desc. node	2861 Dec 24 14:58	22° ♄ 31'51		morning set		2862 Dec 06 23:37	5° ♄ 57'49	
morning set	2861 Dec 27 07:28	26° ♄ 40'44		desc. node		2862 Dec 11 11:59	13° ♄ 05'44	
	2861 Dec 29 10:56	0° ♄				2862 Dec 22 06:07	0° ♄	
max. Earth dist.	2862 Jan 08 22:59	16° ♄ 26'42	1.44478 AU	max. Earth dist.		2862 Dec 22 16:08	0° ♄ 39'20	1.45141 AU
superior conj	2862 Jan 13 00:45	22° ♄ 56'16	-1°48'53	superior conj		2862 Dec 23 05:34	1° ♄ 32'06	-1°13'54
minimum elong	2862 Jan 12 17:10	22° ♄ 25'51	1°48'20	minimum elong		2862 Dec 22 21:01	0° ♄ 58'29	1°12'56
	2862 Jan 17 09:37	0° ♄		evening rise		2863 Jan 07 19:54	26° ♄ 15'22	
evening rise	2862 Jan 26 23:08	15° ♄ 50'42				2863 Jan 10 03:52	0° ♄	
	2862 Feb 04 10:17	0° ♄		greatest brilliancy		2863 Jan 15 06:18	8° ♄ 10'54	-0.9m
asc. node	2862 Feb 12 20:29	12° ♄ 25'43		evening max el		2863 Jan 29 05:53	28° ♄ 02'05	18°50'12
evening max el	2862 Feb 14 19:00	14° ♄ 35'22	18°19'40	asc. node		2863 Jan 30 17:30	29° ♄ 25'39	
retrograde	2862 Feb 21 06:11	18° ♄ 04'52				2863 Jan 31 10:34	0° ♄	
evening set	2862 Feb 24 05:49	17° ♄ 16'50		retrograde		2863 Feb 04 23:50	1° ♄ 49'08	
inferior conj	2862 Mar 02 04:58	11° ♄ 52'19	3°40'31	evening set		2863 Feb 08 05:35	0° ♄ 48'53	
minimum elong	2862 Mar 02 04:41	11° ♄ 53'06	3°40'29			2863 Feb 09 08:59	30° ♄	
min. Earth dist.	2862 Mar 04 14:15	9° ♄ 10'29	0.63836 AU	inferior conj		2863 Feb 13 21:36	25° ♄ 07'08	3°30'58
morning rise	2862 Mar 08 02:46	5° ♄ 45'20		minimum elong		2863 Feb 13 19:59	25° ♄ 12'09	3°30'46
direct	2862 Mar 15 00:04	2° ♄ 58'46		min. Earth dist.		2863 Feb 15 15:20	22° ♄ 58'19	0.65439 AU
desc. node	2862 Mar 22 14:10	5° ♄ 42'20		morning rise		2863 Feb 19 09:59	18° ♄ 55'51	
morning max el	2862 Mar 28 18:08	10° ♄ 54'47	27°36'49	direct		2863 Feb 26 00:37	16° ♄ 04'19	
	2862 Apr 12 19:35	0° ♄		desc. node		2863 Mar 09 11:12	22° ♄ 09'40	
	2862 Apr 30 09:45	0° ♄		morning max el		2863 Mar 11 03:55	23° ♄ 48'17	26°50'53
morning set	2862 May 02 14:15	4° ♄ 16'37				2863 Mar 16 17:09	0° ♄	
max. Earth dist.	2862 May 07 15:36	14° ♄ 36'10	1.33127 AU			2863 Apr 06 04:06	0° ♄	
superior conj	2862 May 10 11:12	20° ♄ 34'25	-0°14'14	morning set		2863 Apr 16 00:00	17° ♄ 41'54	
minimum elong	2862 May 10 11:54	20° ♄ 38'12	0°14'04	max. Earth dist.		2863 Apr 20 08:24	26° ♄ 13'26	1.34292 AU
behind sun begin	2862 May 10 09:22	20° ♄ 24'37				2863 Apr 22 05:08	0° ♄	
behind sun end	2862 May 10 14:27	20° ♄ 51'48		superior conj		2863 Apr 24 12:23	4° ♄ 44'56	-0°42'36
asc. node	2862 May 11 19:47	23° ♄ 29'13		minimum elong		2863 Apr 24 14:35	4° ♄ 56'23	0°42'10
	2862 May 14 20:20	0° ♄		asc. node		2863 Apr 28 16:49	13° ♄ 32'25	
evening rise	2862 May 17 13:52	5° ♄ 49'45		evening rise		2863 May 01 23:47	20° ♄ 27'10	
	2862 May 30 12:45	0° ♄				2863 May 06 17:10	0° ♄	
evening max el	2862 Jun 08 20:52	11° ♄ 47'18	22°51'08	evening max el		2863 May 21 17:19	22° ♄ 27'53	21°19'25
desc. node	2862 Jun 18 13:25	17° ♄ 55'04		retrograde		2863 Jun 02 18:25	28° ♄ 21'51	
retrograde	2862 Jun 22 04:23	18° ♄ 25'05		evening set		2863 Jun 05 02:08	28° ♄ 09'28	
evening set	2862 Jun 25 13:28	18° ♄ 00'02		desc. node		2863 Jun 05 10:26	28° ♄ 05'35	
min. Earth dist.	2862 Jul 03 05:30	14° ♄ 36'28	0.55413 AU	inferior conj		2863 Jun 14 11:34	24° ♄ 10'20	-2°35'04
inferior conj	2862 Jul 04 17:06	13° ♄ 45'12	-4°09'58	minimum elong		2863 Jun 14 04:36	24° ♄ 20'06	2°32'46
minimum elong	2862 Jul 04 09:25	13° ♄ 56'19	4°08'15	min. Earth dist.		2863 Jun 14 17:17	24° ♄ 02'19	0.54875 AU
morning rise	2862 Jul 13 07:42	9° ♄ 53'25		morning rise		2863 Jun 23 07:32	20° ♄ 12'38	
direct	2862 Jul 16 05:25	9° ♄ 33'40		direct		2863 Jun 26 15:39	19° ♄ 48'27	
morning max el	2862 Jul 27 07:05	14° ♄ 41'46	20°46'17	morning max el		2863 Jul 09 06:22	25° ♄ 47'26	22°19'21
asc. node	2862 Aug 07 18:59	0° ♄ 22'31				2863 Jul 13 05:21	0° ♄	
	2862 Aug 07 13:51	0° ♄		asc. node		2863 Jul 25 16:02	19° ♄ 33'28	
morning set	2862 Aug 15 12:46	15° ♄ 21'01		morning set		2863 Jul 30 22:56	0° ♄ 12'01	
	2862 Aug 22 14:24	0° ♄				2863 Jul 30 20:38	0° ♄	
superior conj	2862 Aug 23 00:34	0° ♄ 52'09	1°44'41	superior conj		2863 Aug 07 03:00	15° ♄ 25'23	1°38'58
minimum elong	2862 Aug 23 00:06	0° ♄ 49'40	1°44'41	minimum elong		2863 Aug 07 01:23	15° ♄ 16'47	1°38'51
max. Earth dist.	2862 Aug 27 17:46	10° ♄ 19'35	1.35871 AU	max. Earth dist.		2863 Aug 10 10:02	22° ♄ 18'02	1.34340 AU
evening rise	2862 Aug 31 19:24	18° ♄ 06'02				2863 Aug 14 05:42	0° ♄	
	2862 Sep 07 11:16	0° ♄		evening rise		2863 Aug 15 02:10	1° ♄ 40'14	
desc. node	2862 Sep 14 12:44	11° ♄ 31'56				2863 Aug 31 09:57	0° ♄	
	2862 Sep 27 13:38	0° ♄		desc. node		2863 Sep 01 09:45	1° ♄ 30'10	
evening max el	2862 Oct 06 10:00	9° ♄ 59'17	26°18'01	evening max el		2863 Sep 18 22:30	23° ♄ 32'35	27°04'39
retrograde	2862 Oct 19 03:33	17° ♄ 10'13				2863 Sep 28 03:00	0° ♄	
evening set	2862 Oct 25 12:15	14° ♄ 32'59		retrograde		2863 Oct 02 05:10	0° ♄ 49'51	
min. Earth dist.	2862 Oct 29 16:19	10° ♄ 09'15	0.66441 AU			2863 Oct 06 01:08	30° ♄	
inferior conj	2862 Oct 31 05:18	8° ♄ 15'53	-1°12'28	evening set		2863 Oct 09 01:35	28° ♄ 07'19	
minimum elong	2862 Oct 31 07:14	8° ♄ 09'56	1°11'40	min. Earth dist.		2863 Oct 12 23:05	24° ♄ 19'36	0.65265 AU
asc. node	2862 Nov 03 18:11	4° ♄ 16'50		inferior conj		2863 Oct 15 00:04	22° ♄ 01'02	-2°12'09
morning rise	2862 Nov 06 02:43	2° ♄ 27'37		minimum elong		2863 Oct 15 03:41	21° ♄ 50'47	2°10'44
direct	2862 Nov 09 03:53	1° ♄ 34'47		morning rise		2863 Oct 21 06:37	16° ♄ 25'29	
morning max el	2862 Nov 15 21:48	5° ♄ 18'11	18°43'01	asc. node		2863 Oct 21 15:13	16° ♄ 15'44	

direct	2863 Oct 24 00:01	15° Ω 45'27		minimum elong	2864 Sep 27 15:11	5° Ω 20'46	3°09'12
morning max el	2863 Oct 30 12:13	19° Ω 15'34	18°09'05	morning rise	2864 Oct 04 03:05	0° Ω 14'29	
	2863 Nov 07 13:52	0° Π			2864 Oct 04 19:35	30° \mathbb{R} Π	
morning set	2863 Nov 17 21:06	16° Π 43'28		direct	2864 Oct 06 15:16	29° Π 43'37	
	2863 Nov 26 00:21	0° \mathbb{A}		asc. node	2864 Oct 07 12:14	29° Π 47'26	
desc. node	2863 Nov 28 09:00	3° \mathbb{A} 47'39			2864 Oct 08 10:44	0° Ω	
				morning max el	2864 Oct 13 04:35	3° Ω 09'00	17°52'34
superior conj	2863 Dec 02 09:41	10° \mathbb{A} 12'44	-0°27'03	morning set	2864 Oct 29 21:14	28° Ω 46'49	
minimum elong	2863 Dec 02 06:14	9° \mathbb{A} 59'06	0°26'34		2864 Oct 30 14:12	0° Π	
max. Earth dist.	2863 Dec 05 11:21	15° \mathbb{A} 03'35	1.45067 AU				
	2863 Dec 15 00:47	0° \mathbb{Z}		superior conj	2864 Nov 11 08:46	19° Π 52'11	0°19'41
evening rise	2863 Dec 18 18:42	5° \mathbb{Z} 49'14		minimum elong	2864 Nov 11 10:52	20° Π 00'47	0°19'23
greatest brilliancy	2863 Dec 31 11:25	25° \mathbb{Z} 20'56	-0.7m	desc. node	2864 Nov 14 06:03	24° Π 34'19	
	2864 Jan 03 14:44	0° \approx		max. Earth dist.	2864 Nov 17 05:36	29° Π 21'38	1.44266 AU
evening max el	2864 Jan 12 12:58	11° \approx 31'52	19°37'18		2864 Nov 17 15:13	0° \mathbb{A}	
asc. node	2864 Jan 17 14:30	15° \approx 18'18		evening rise	2864 Nov 27 04:35	14° \mathbb{A} 57'04	
retrograde	2864 Jan 19 20:49	15° \approx 46'10			2864 Dec 07 02:40	0° \mathbb{Z}	
evening set	2864 Jan 23 09:57	14° \approx 32'29		evening max el	2864 Dec 25 14:52	25° \mathbb{Z} 03'13	20°38'45
inferior conj	2864 Jan 28 21:26	8° \approx 35'38	3°08'38	retrograde	2865 Jan 02 18:49	29° \mathbb{Z} 52'24	
minimum elong	2864 Jan 28 19:04	8° \approx 43'25	3°08'09	asc. node	2865 Jan 03 11:31	29° \mathbb{Z} 49'43	
min. Earth dist.	2864 Jan 30 00:26	7° \approx 06'51	0.66640 AU	evening set	2865 Jan 06 16:54	28° \mathbb{Z} 24'05	
morning rise	2864 Feb 03 03:58	2° \approx 22'33		inferior conj	2865 Jan 12 01:57	22° \mathbb{Z} 14'48	2°36'26
	2864 Feb 07 00:54	30° \mathbb{R} \mathbb{Z}		minimum elong	2865 Jan 11 23:23	22° \mathbb{Z} 23'34	2°35'43
direct	2864 Feb 09 06:58	29° \mathbb{Z} 38'54		min. Earth dist.	2865 Jan 12 15:45	21° \mathbb{Z} 27'37	0.67432 AU
	2864 Feb 11 15:52	0° \approx		morning rise	2865 Jan 17 05:42	16° \mathbb{Z} 01'36	
morning max el	2864 Feb 21 13:01	6° \approx 56'31	25°40'40	direct	2865 Jan 22 18:27	13° \mathbb{Z} 34'47	
desc. node	2864 Feb 24 08:12	9° \approx 56'01		morning max el	2865 Feb 02 21:30	20° \mathbb{Z} 13'01	24°16'06
	2864 Mar 10 11:14	0° \mathbb{H}		desc. node	2865 Feb 10 05:14	28° \mathbb{Z} 39'08	
morning set	2864 Mar 28 18:57	0° \mathbb{Y} 18'54			2865 Feb 11 06:31	0° \approx	
	2864 Mar 28 14:49	0° \mathbb{Y}			2865 Mar 03 15:56	0° \mathbb{H}	
max. Earth dist.	2864 Apr 01 13:35	7° \mathbb{Y} 21'47	1.35916 AU	morning set	2865 Mar 10 17:36	11° \mathbb{H} 53'04	
				max. Earth dist.	2865 Mar 14 10:32	18° \mathbb{H} 26'28	1.37915 AU
					2865 Mar 20 16:07	0° \mathbb{Y}	
superior conj	2864 Apr 07 05:19	18° \mathbb{Y} 25'57	-1°10'39				
minimum elong	2864 Apr 07 08:56	18° \mathbb{Y} 44'05	1°10'03				
	2864 Apr 12 21:38	0° \mathbb{B}		superior conj	2865 Mar 21 10:44	1° \mathbb{Y} 28'59	-1°36'11
asc. node	2864 Apr 14 13:50	3° \mathbb{B} 25'50		minimum elong	2865 Mar 21 15:11	1° \mathbb{Y} 50'22	1°35'38
evening rise	2864 Apr 15 05:47	4° \mathbb{B} 47'09		evening rise	2865 Mar 30 05:28	18° \mathbb{Y} 43'10	
	2864 Apr 29 17:32	0° Π		asc. node	2865 Apr 01 10:52	23° \mathbb{Y} 05'01	
evening max el	2864 May 03 00:58	3° Π 42'19	20°02'19		2865 Apr 05 02:33	0° \mathbb{B}	
retrograde	2864 May 13 09:03	8° Π 43'14		evening max el	2865 Apr 15 20:07	15° \mathbb{B} 36'31	19°04'20
evening set	2864 May 15 08:55	8° Π 32'51		retrograde	2865 Apr 24 13:07	19° \mathbb{B} 50'35	
desc. node	2864 May 22 07:27	5° Π 45'22		evening set	2865 Apr 26 15:54	19° \mathbb{B} 36'37	
inferior conj	2864 May 24 08:26	4° Π 33'13	-0°35'58	inferior conj	2865 May 04 20:49	15° \mathbb{B} 23'15	1°13'14
minimum elong	2864 May 24 06:46	4° Π 35'43	0°35'22	minimum elong	2865 May 04 23:35	15° \mathbb{B} 18'28	1°12'18
min. Earth dist.	2864 May 26 06:12	3° Π 24'35	0.55298 AU	min. Earth dist.	2865 May 07 21:29	13° \mathbb{B} 18'30	0.56595 AU
morning rise	2864 Jun 02 02:49	0° Π 11'01		desc. node	2865 May 09 04:27	12° \mathbb{B} 28'50	
	2864 Jun 02 19:14	30° \mathbb{R} \mathbb{B}		morning rise	2865 May 13 04:10	10° \mathbb{B} 26'00	
direct	2864 Jun 06 04:50	29° \mathbb{B} 34'36		direct	2865 May 18 06:00	9° \mathbb{B} 25'31	
	2864 Jun 09 13:28	0° Π		morning max el	2865 Jun 01 12:32	16° \mathbb{B} 46'11	25°39'28
morning max el	2864 Jun 19 22:05	6° Π 20'18	24°01'44		2865 Jun 12 07:55	0° Π	
	2864 Jul 06 19:31	0° \mathbb{E}		asc. node	2865 Jun 28 10:07	28° Π 58'04	
asc. node	2864 Jul 11 13:04	9° \mathbb{E} 07'30		morning set	2865 Jun 28 22:09	0° \mathbb{E} 01'22	
morning set	2864 Jul 14 10:35	15° \mathbb{E} 07'10			2865 Jun 28 21:53	0° \mathbb{E}	
superior conj	2864 Jul 21 10:38	0° Ω 13'07	1°27'35	superior conj	2865 Jul 05 21:16	15° \mathbb{E} 08'26	1°11'27
minimum elong	2864 Jul 21 08:23	0° Ω 00'58	1°27'18	minimum elong	2865 Jul 05 18:54	14° \mathbb{E} 55'29	1°11'04
	2864 Jul 21 08:12	0° Ω		max. Earth dist.	2865 Jul 06 19:36	17° \mathbb{E} 10'50	1.32469 AU
max. Earth dist.	2864 Jul 23 11:23	4° Ω 35'31	1.33204 AU	evening rise	2865 Jul 12 22:28	0° Ω 16'33	
evening rise	2864 Jul 28 20:18	15° Ω 47'01			2865 Jul 12 19:16	0° Ω	
	2864 Aug 05 06:44	0° Π			2865 Jul 29 07:59	0° Π	
desc. node	2864 Aug 18 06:47	20° Π 58'12		desc. node	2865 Aug 05 03:48	9° Π 43'30	
	2864 Aug 25 03:32	0° Ω		evening max el	2865 Aug 13 17:31	19° Π 26'56	27°15'33
evening max el	2864 Aug 31 09:50	6° Ω 46'21	27°25'39	retrograde	2865 Aug 27 13:22	26° Π 41'34	
retrograde	2864 Sep 14 00:38	14° Ω 03'26		evening set	2865 Sep 03 17:16	24° Π 19'02	
evening set	2864 Sep 21 04:30	11° Ω 24'50		min. Earth dist.	2865 Sep 07 07:43	21° Π 31'19	0.61896 AU
min. Earth dist.	2864 Sep 24 20:39	8° Ω 10'54	0.63737 AU	inferior conj	2865 Sep 10 08:28	18° Π 46'18	-4°04'27
inferior conj	2864 Sep 27 10:08	5° Ω 33'42	-3°10'53	minimum elong	2865 Sep 10 14:04	18° Π 33'33	4°03'04

morning rise	2865 Sep 17 12:31	13° \mathbb{M} 46'49		inferior conj	2866 Aug 23 15:38	1° \mathbb{M} 30'29	-4°45'49
direct	2865 Sep 19 22:07	13° \mathbb{M} 22'05		minimum elong	2866 Aug 23 19:56	1° \mathbb{M} 21'54	4°45'14
asc. node	2865 Sep 24 09:18	14° \mathbb{M} 50'44			2866 Aug 25 14:15	30° \mathbb{R} \mathcal{Q}	
morning max el	2865 Sep 26 19:52	16° \mathbb{M} 51'04	17°54'13	morning rise	2866 Aug 31 06:38	26° \mathcal{Q} 53'13	
	2865 Oct 06 02:45	0° \mathcal{Q}		direct	2866 Sep 02 16:31	26° \mathcal{Q} 32'06	
morning set	2865 Oct 12 17:36	11° \mathcal{Q} 47'30			2866 Sep 10 01:02	0° \mathbb{M}	
	2865 Oct 22 22:57	0° \mathbb{M}		morning max el	2866 Sep 10 06:56	0° \mathbb{M} 13'59	18°15'14
				asc. node	2866 Sep 11 06:23	1° \mathbb{M} 13'42	
superior conj	2865 Oct 23 10:42	0° \mathbb{M} 50'39	0°57'36	morning set	2866 Sep 26 04:32	25° \mathbb{M} 30'11	
minimum elong	2865 Oct 23 15:01	1° \mathbb{M} 09'18	0°57'02		2866 Sep 28 13:27	0° \mathcal{Q}	
max. Earth dist.	2865 Oct 30 19:30	13° \mathbb{M} 13'01	1.42842 AU				
desc. node	2865 Nov 01 03:05	15° \mathbb{M} 21'46		superior conj	2866 Oct 05 13:28	13° \mathcal{Q} 02'12	1°23'53
evening rise	2865 Nov 06 17:13	24° \mathbb{M} 16'50		minimum elong	2866 Oct 05 17:18	13° \mathcal{Q} 19'36	1°23'30
	2865 Nov 10 09:35	0° \mathcal{R}		max. Earth dist.	2866 Oct 13 03:43	26° \mathcal{Q} 24'13	1.40986 AU
	2865 Dec 01 04:43	0° \mathcal{R}			2866 Oct 15 06:53	0° \mathbb{M}	
evening max el	2865 Dec 08 11:07	8° \mathcal{R} 35'05	21°51'21	evening rise	2866 Oct 17 23:26	4° \mathbb{M} 26'34	
retrograde	2865 Dec 17 15:51	14° \mathcal{R} 03'34		desc. node	2866 Oct 19 00:08	6° \mathbb{M} 07'01	
asc. node	2865 Dec 21 08:33	12° \mathcal{R} 49'20			2866 Nov 03 16:05	0° \mathcal{R}	
evening set	2865 Dec 22 00:37	12° \mathcal{R} 19'28		evening max el	2866 Nov 21 02:46	22° \mathcal{R} 09'36	23°10'22
inferior conj	2865 Dec 27 08:58	6° \mathcal{R} 01'10	1°56'18	retrograde	2866 Dec 01 10:20	28° \mathcal{R} 16'27	
minimum elong	2865 Dec 27 06:42	6° \mathcal{R} 09'02	1°55'30	evening set	2866 Dec 06 07:29	26° \mathcal{R} 15'56	
min. Earth dist.	2865 Dec 27 11:00	5° \mathcal{R} 54'06	0.67837 AU	asc. node	2866 Dec 08 05:36	24° \mathcal{R} 21'35	
	2866 Jan 01 07:52	30° \mathbb{R} \mathcal{R}		inferior conj	2866 Dec 11 16:38	19° \mathcal{R} 52'29	1°09'37
morning rise	2866 Jan 01 12:39	29° \mathcal{R} 49'27		minimum elong	2866 Dec 11 15:06	19° \mathcal{R} 57'48	1°08'59
direct	2866 Jan 06 10:22	27° \mathcal{R} 44'10		min. Earth dist.	2866 Dec 11 07:50	20° \mathcal{R} 22'47	0.67886 AU
	2866 Jan 12 04:55	0° \mathcal{R}		morning rise	2866 Dec 16 22:37	13° \mathcal{R} 44'11	
morning max el	2866 Jan 16 07:26	3° \mathcal{R} 35'06	22°47'17	direct	2866 Dec 21 05:53	12° \mathcal{R} 01'42	
desc. node	2866 Jan 28 02:17	18° \mathcal{R} 02'25		morning max el	2866 Dec 29 22:13	17° \mathcal{R} 05'20	21°22'57
	2866 Feb 05 10:31	0° \mathcal{R}			2867 Jan 09 09:33	0° \mathcal{R}	
morning set	2866 Feb 19 13:51	22° \mathcal{R} 08'57		desc. node	2867 Jan 14 23:20	7° \mathcal{R} 54'38	
max. Earth dist.	2866 Feb 24 05:59	0° \mathcal{R} 00'01	1.40079 AU		2867 Jan 29 13:07	0° \mathcal{R}	
	2866 Feb 24 05:58	0° \mathcal{R}		morning set	2867 Jan 30 05:15	1° \mathcal{R} 03'39	
				max. Earth dist.	2867 Feb 06 06:36	12° \mathcal{R} 25'56	1.42130 AU
superior conj	2866 Mar 04 00:17	13° \mathcal{R} 43'06	-1°56'02				
minimum elong	2866 Mar 04 04:11	14° \mathcal{R} 00'52	1°55'46	superior conj	2867 Feb 13 16:54	24° \mathcal{R} 56'49	-2°05'53
	2866 Mar 12 17:04	0° \mathcal{Y}		minimum elong	2867 Feb 13 17:48	25° \mathcal{R} 00'40	2°05'52
evening rise	2866 Mar 13 19:48	2° \mathcal{Y} 07'10			2867 Feb 16 14:31	0° \mathcal{R}	
asc. node	2866 Mar 19 07:54	12° \mathcal{Y} 24'18		evening rise	2867 Feb 24 21:03	14° \mathcal{R} 50'45	
evening max el	2866 Mar 30 00:20	28° \mathcal{Y} 05'51	18°26'36		2867 Mar 05 10:10	0° \mathcal{Y}	
	2866 Apr 01 07:09	0° \mathcal{R}		asc. node	2867 Mar 06 04:56	1° \mathcal{Y} 17'08	
retrograde	2866 Apr 06 11:56	1° \mathcal{R} 47'28		evening max el	2867 Mar 13 10:20	11° \mathcal{Y} 01'48	18°08'48
evening set	2866 Apr 08 20:51	1° \mathcal{R} 26'18		retrograde	2867 Mar 20 04:07	14° \mathcal{Y} 27'10	
	2866 Apr 12 00:22	30° \mathbb{R} \mathcal{Y}		evening set	2867 Mar 22 19:10	13° \mathcal{Y} 56'24	
inferior conj	2866 Apr 16 06:24	26° \mathcal{Y} 53'37	2°32'19	inferior conj	2867 Mar 29 12:19	9° \mathcal{Y} 02'58	3°18'52
minimum elong	2866 Apr 16 10:14	26° \mathcal{Y} 45'51	2°31'21	minimum elong	2867 Mar 29 14:56	8° \mathcal{Y} 56'48	3°18'28
min. Earth dist.	2866 Apr 19 16:58	24° \mathcal{Y} 07'57	0.58497 AU	min. Earth dist.	2867 Apr 01 18:43	6° \mathcal{Y} 00'29	0.60659 AU
morning rise	2866 Apr 23 20:39	21° \mathcal{Y} 24'54		morning rise	2867 Apr 05 08:40	3° \mathcal{Y} 13'04	
desc. node	2866 Apr 26 01:28	20° \mathcal{Y} 28'28		direct	2867 Apr 12 01:12	1° \mathcal{Y} 02'25	
direct	2866 Apr 29 21:33	19° \mathcal{Y} 49'50		desc. node	2867 Apr 12 22:31	1° \mathcal{Y} 04'39	
morning max el	2866 May 14 06:59	27° \mathcal{Y} 32'29	26°56'43	morning max el	2867 Apr 26 07:31	8° \mathcal{Y} 56'10	27°41'29
	2866 May 16 16:02	0° \mathcal{R}			2867 May 12 11:24	0° \mathcal{R}	
	2866 Jun 05 20:27	0° \mathbb{I}		morning set	2867 May 28 14:13	29° \mathcal{R} 23'34	
morning set	2866 Jun 13 07:59	14° \mathbb{I} 49'06			2867 May 28 21:16	0° \mathbb{I}	
asc. node	2866 Jun 15 07:12	18° \mathbb{I} 59'39		asc. node	2867 Jun 02 04:15	9° \mathbb{I} 06'52	
				max. Earth dist.	2867 Jun 03 18:32	12° \mathbb{I} 35'22	1.32190 AU
superior conj	2866 Jun 20 09:05	0° \mathcal{Q} 05'07	0°51'18				
minimum elong	2866 Jun 20 07:04	29° \mathbb{I} 54'04	0°50'55	superior conj	2867 Jun 04 20:17	14° \mathbb{I} 56'24	0°27'50
	2866 Jun 20 08:09	0° \mathcal{Q}		minimum elong	2867 Jun 04 19:03	14° \mathbb{I} 49'40	0°27'34
max. Earth dist.	2866 Jun 20 07:14	29° \mathbb{I} 54'54	1.32128 AU	evening rise	2867 Jun 11 16:39	29° \mathbb{I} 50'54	
evening rise	2866 Jun 27 06:00	15° \mathcal{Q} 00'32			2867 Jun 11 18:21	0° \mathcal{Q}	
	2866 Jul 04 18:53	0° \mathcal{Q}			2867 Jun 28 06:26	0° \mathcal{Q}	
desc. node	2866 Jul 23 00:48	27° \mathcal{Q} 28'35		evening max el	2867 Jul 08 13:44	12° \mathcal{Q} 34'04	25°19'16
	2866 Jul 25 09:03	0° \mathbb{M}		desc. node	2867 Jul 09 21:50	13° \mathcal{Q} 47'46	
evening max el	2866 Jul 26 19:12	1° \mathbb{M} 24'07	26°32'20	retrograde	2867 Jul 22 13:40	19° \mathcal{Q} 40'37	
retrograde	2866 Aug 09 18:30	8° \mathbb{M} 35'57		evening set	2867 Jul 28 06:05	18° \mathcal{Q} 25'46	
evening set	2866 Aug 16 11:19	6° \mathbb{M} 42'49		min. Earth dist.	2867 Aug 02 01:39	15° \mathcal{Q} 43'36	0.57822 AU
min. Earth dist.	2866 Aug 20 08:42	4° \mathbb{M} 06'59	0.59852 AU	inferior conj	2867 Aug 05 04:08	13° \mathcal{Q} 35'29	-5°03'49




























































































































minimum elong	2867 Aug 05 04:24	13°♎35'01	5°03'50	evening set	2868 Jul 07 02:05	29°♏21'50	
morning rise	2867 Aug 13 05:10	9°♎20'34		min. Earth dist.	2868 Jul 13 13:48	26°♏17'15	0.56121 AU
direct	2867 Aug 15 18:07	9°♎01'04		inferior conj	2868 Jul 15 20:20	24°♏54'48	-4°43'40
morning max el	2867 Aug 24 10:21	13°♎06'43	18°57'02	minimum elong	2868 Jul 15 14:55	25°♏03'01	4°42'54
asc. node	2867 Aug 29 03:28	18°♎39'58		morning rise	2868 Jul 24 06:19	20°♏57'54	
	2867 Sep 05 00:25	0°♎		direct	2868 Jul 27 00:35	20°♏38'35	
morning set	2867 Sep 10 01:37	9°♎41'55		morning max el	2868 Aug 06 03:18	25°♏20'03	20°00'28
					2868 Aug 10 07:51	0°♎	
superior conj	2867 Sep 18 11:35	26°♎10'30	1°39'07	asc. node	2868 Aug 15 00:31	6°♎55'31	
minimum elong	2867 Sep 18 13:46	26°♎20'54	1°39'00	morning set	2868 Aug 24 05:36	24°♎13'55	
	2867 Sep 20 11:59	0°♎			2868 Aug 27 01:27	0°♎	
max. Earth dist.	2867 Sep 25 08:11	8°♎53'18	1.38928 AU				
evening rise	2867 Sep 29 05:14	15°♎41'29		superior conj	2868 Aug 31 23:50	10°♎00'50	1°44'57
desc. node	2867 Oct 05 21:10	26°♎45'48		minimum elong	2868 Sep 01 00:14	10°♎02'49	1°44'56
	2867 Oct 07 22:02	0°♎		max. Earth dist.	2868 Sep 06 13:27	20°♎52'34	1.36921 AU
	2867 Oct 29 08:28	0°♎		evening rise	2868 Sep 10 09:22	27°♎58'35	
evening max el	2867 Nov 03 15:47	5°♎48'14	24°29'45		2868 Sep 11 12:21	0°♎	
retrograde	2867 Nov 15 01:00	12°♎27'11		desc. node	2868 Sep 21 18:11	17°♎13'30	
evening set	2867 Nov 20 11:53	10°♎10'28			2868 Sep 30 06:47	0°♎	
min. Earth dist.	2867 Nov 25 03:44	4°♎50'59	0.67595 AU	evening max el	2868 Oct 16 03:59	19°♎29'19	25°42'19
asc. node	2867 Nov 25 02:39	4°♎54'36		retrograde	2868 Oct 28 10:58	26°♎31'00	
inferior conj	2867 Nov 25 23:08	3°♎46'09	0°17'33	evening set	2868 Nov 03 12:03	24°♎00'00	
minimum elong	2867 Nov 25 22:42	3°♎47'35	0°17'21	min. Earth dist.	2868 Nov 07 20:17	19°♎15'44	0.66965 AU
	2867 Nov 28 22:59	30°♎		inferior conj	2868 Nov 09 02:38	17°♎39'11	-0°38'44
morning rise	2867 Dec 01 09:35	27°♎43'36		minimum elong	2868 Nov 09 03:39	17°♎35'59	0°38'18
direct	2867 Dec 05 03:43	26°♎22'42		asc. node	2868 Nov 10 23:42	15°♎19'47	
	2867 Dec 12 01:18	0°♎		morning rise	2868 Nov 14 19:33	11°♎45'01	
morning max el	2867 Dec 12 20:26	0°♎46'29	20°09'22	direct	2868 Nov 18 02:22	10°♎42'56	
desc. node	2868 Jan 01 20:23	28°♎07'39		morning max el	2868 Nov 25 02:25	14°♎37'38	19°10'02
	2868 Jan 03 02:02	0°♎			2868 Dec 06 15:58	0°♎	
morning set	2868 Jan 09 02:14	9°♎12'22		morning set	2868 Dec 18 05:11	17°♎47'39	
max. Earth dist.	2868 Jan 19 15:24	25°♎46'54	1.43791 AU	desc. node	2868 Dec 18 17:25	18°♎35'18	
	2868 Jan 22 06:17	0°♎			2868 Dec 26 01:00	0°♎	
				max. Earth dist.	2869 Jan 01 06:50	9°♎47'48	1.44854 AU
superior conj	2868 Jan 25 08:07	5°♎00'47	-2°00'32				
minimum elong	2868 Jan 25 03:32	4°♎42'02	2°00'20	superior conj	2869 Jan 03 22:27	13°♎59'12	-1°36'08
evening rise	2868 Feb 07 04:54	26°♎45'16		minimum elong	2869 Jan 03 13:35	13°♎24'04	1°35'19
	2868 Feb 09 01:54	0°♎			2869 Jan 13 21:56	0°♎	
asc. node	2868 Feb 21 01:58	19°♎35'07		evening rise	2869 Jan 18 15:13	7°♎43'32	
evening max el	2868 Feb 24 22:54	24°♎15'27	18°10'20		2869 Feb 01 11:26	0°♎	
retrograde	2868 Mar 02 09:38	27°♎39'25		asc. node	2869 Feb 06 23:00	7°♎07'01	
evening set	2868 Mar 05 06:14	26°♎57'48		evening max el	2869 Feb 07 11:03	7°♎38'27	18°30'29
inferior conj	2868 Mar 11 10:53	21°♎44'08	3°38'37	retrograde	2869 Feb 14 00:03	11°♎14'01	
minimum elong	2868 Mar 11 11:37	21°♎42'11	3°38'34	evening set	2869 Feb 17 02:15	10°♎20'44	
min. Earth dist.	2868 Mar 14 04:50	18°♎49'24	0.62754 AU	inferior conj	2869 Feb 22 21:58	4°♎48'22	3°38'12
morning rise	2868 Mar 17 15:53	15°♎41'50		minimum elong	2869 Feb 22 21:03	4°♎51'04	3°38'09
direct	2868 Mar 24 14:06	13°♎04'42		min. Earth dist.	2869 Feb 25 00:30	2°♎19'42	0.64568 AU
desc. node	2868 Mar 29 19:33	14°♎22'35			2869 Feb 27 04:12	30°♎	
morning max el	2868 Apr 07 13:35	21°♎01'28	27°48'58	morning rise	2869 Feb 28 15:19	28°♎39'18	
	2868 Apr 15 08:17	0°♎		direct	2869 Mar 07 10:29	25°♎49'15	
	2868 May 04 12:31	0°♎		desc. node	2869 Mar 16 16:34	29°♎50'40	
morning set	2868 May 11 14:46	13°♎38'10			2869 Mar 16 21:18	0°♎	
max. Earth dist.	2868 May 17 01:46	25°♎00'09	1.32667 AU	morning max el	2869 Mar 20 22:55	3°♎40'53	27°20'51
					2869 Apr 09 18:45	0°♎	
superior conj	2868 May 19 05:10	29°♎36'47	0°01'43	morning set	2869 Apr 25 06:52	27°♎23'56	
minimum elong	2868 May 19 05:05	29°♎36'20	0°01'42		2869 Apr 26 14:33	0°♎	
behind sun begin	2868 May 18 23:53	29°♎08'15		max. Earth dist.	2869 Apr 30 01:00	6°♎57'17	1.33573 AU
behind sun end	2868 May 19 10:16	0°♎					
asc. node	2868 May 19 01:17	29°♎15'48		superior conj	2869 May 03 09:44	13°♎59'26	-0°26'12
	2868 May 19 09:27	0°♎		minimum elong	2869 May 03 11:04	14°♎06'29	0°25'55
evening rise	2868 May 26 04:30	14°♎41'21		asc. node	2869 May 05 22:19	19°♎21'50	
	2868 Jun 02 20:33	0°♎		evening rise	2869 May 10 15:39	29°♎24'57	
evening max el	2868 Jun 19 03:27	23°♎08'44	23°46'52		2869 May 10 22:20	0°♎	
desc. node	2868 Jun 25 18:49	28°♎08'25			2869 May 28 11:16	0°♎	
	2868 Jul 02 01:41	0°♎		evening max el	2869 May 31 18:59	3°♎36'34	22°10'42
retrograde	2868 Jul 02 20:19	0°♎01'22		desc. node	2869 Jun 12 15:49	9°♎55'48	
	2868 Jul 03 15:00	30°♎		retrograde	2869 Jun 13 15:09	9°♎57'58	

evening set	2869 Jun 16 11:40	9°☿39'53		desc. node	2870 May 30 12:49	18°♊55'46	
min. Earth dist.	2869 Jun 25 00:44	5°☿59'46	0.55073 AU	inferior conj	2870 Jun 05 13:19	15°♊52'57	-1°45'22
inferior conj	2869 Jun 25 19:43	5°☿33'06	-3°34'37	minimum elong	2870 Jun 05 08:22	16°♊00'02	1°43'35
minimum elong	2869 Jun 25 11:31	5°☿44'37	3°32'22	min. Earth dist.	2870 Jun 06 12:58	15°♊19'07	0.54932 AU
morning rise	2869 Jul 04 13:12	1°☿41'40		morning rise	2870 Jun 14 09:43	11°♊46'44	
direct	2869 Jul 07 14:45	1°☿20'41		direct	2870 Jun 18 00:07	11°♊18'49	
morning max el	2869 Jul 19 08:41	6°☿49'26	21°24'13	morning max el	2870 Jul 01 04:16	17°♊39'04	23°02'39
asc. node	2869 Aug 01 21:33	25°☿48'49			2870 Jul 11 03:29	0°☿	
	2869 Aug 04 02:52	0°♊		asc. node	2870 Jul 19 18:35	15°☿10'08	
morning set	2869 Aug 08 14:04	8°♊59'33		morning set	2870 Jul 24 01:02	23°☿52'36	
					2870 Jul 26 22:07	0°♊	
superior conj	2869 Aug 15 22:03	24°♊21'19	1°43'02				
minimum elong	2869 Aug 15 21:01	24°♊15'59	1°42'59	superior conj	2870 Jul 31 02:58	9°♊01'34	1°34'47
	2869 Aug 18 15:57	0°♋		minimum elong	2870 Jul 31 01:01	8°♊51'08	1°34'36
max. Earth dist.	2869 Aug 20 00:36	2°♋44'34	1.35168 AU	max. Earth dist.	2870 Aug 02 20:36	14°♊49'08	1.33796 AU
evening rise	2869 Aug 24 07:40	11°♋07'43		evening rise	2870 Aug 07 19:40	24°♊56'37	
	2869 Sep 03 23:22	0°♌			2870 Aug 10 10:04	0°♋	
desc. node	2869 Sep 08 15:11	7°♌24'35		desc. node	2870 Aug 26 12:12	27°♋11'03	
	2869 Sep 25 15:09	0°♍			2870 Aug 28 10:55	0°♌	
evening max el	2869 Sep 28 16:16	3°♍07'32	26°40'33	evening max el	2870 Sep 11 04:14	16°♌33'00	27°17'08
retrograde	2869 Oct 11 15:49	10°♍22'08		retrograde	2870 Sep 24 15:05	23°♌51'43	
evening set	2869 Oct 18 06:03	7°♍41'25		evening set	2870 Oct 01 15:22	21°♌09'12	
min. Earth dist.	2869 Oct 22 07:08	3°♍33'26	0.65983 AU	min. Earth dist.	2870 Oct 05 10:10	17°♌36'34	0.64649 AU
inferior conj	2869 Oct 24 01:14	1°♍28'32	-1°37'43	inferior conj	2870 Oct 07 16:37	15°♌08'41	-2°37'25
minimum elong	2869 Oct 24 03:53	1°♍20'39	1°36'37	minimum elong	2870 Oct 07 20:53	14°♌57'02	2°35'50
	2869 Oct 25 07:30	30°♎		morning rise	2870 Oct 14 03:29	9°♌39'55	
asc. node	2869 Oct 28 20:44	26°♌33'04		asc. node	2870 Oct 15 17:46	9°♌09'49	
morning rise	2869 Oct 30 02:23	25°♌45'36		direct	2870 Oct 16 18:14	9°♌04'21	
direct	2869 Nov 01 23:58	24°♌58'41		morning max el	2870 Oct 23 06:14	12°♌31'39	17°59'58
morning max el	2869 Nov 08 14:35	28°♌35'04	18°26'37		2870 Nov 04 09:31	0°♍	
	2869 Nov 09 22:20	0°♍		morning set	2870 Nov 09 19:07	9°♍03'11	
morning set	2869 Nov 28 09:39	27°♍42'54		desc. node	2870 Nov 22 11:30	29°♍57'34	
	2869 Nov 29 19:49	0°♎			2870 Nov 22 12:06	0°♌	
desc. node	2869 Dec 05 14:28	9°♎13'25					
				superior conj	2870 Nov 23 10:42	1°♎30'49	-0°06'36
superior conj	2869 Dec 14 00:20	22°♎29'59	-0°54'48	minimum elong	2870 Nov 23 09:55	1°♎27'38	0°06'29
minimum elong	2869 Dec 13 17:28	22°♎02'59	0°53'55	behind sun begin	2870 Nov 23 00:14	0°♎48'47	
max. Earth dist.	2869 Dec 15 01:38	24°♎09'18	1.45200 AU	behind sun end	2870 Nov 23 19:35	2°♎06'26	
	2869 Dec 18 19:05	0°♏		max. Earth dist.	2870 Nov 27 20:19	8°♎31'07	1.44804 AU
evening rise	2869 Dec 30 02:17	17°♏45'50		evening rise	2870 Dec 09 17:55	27°♎03'53	
	2870 Jan 06 20:34	0°♐			2870 Dec 11 15:41	0°♏	
greatest brilliancy	2870 Jan 09 00:57	3°♐24'29	-0.8m	greatest brilliancy	2870 Dec 23 23:48	18°♏41'36	-0.6m
evening max el	2870 Jan 21 20:30	21°♐06'39	19°08'10		2871 Jan 01 02:12	0°♐	
asc. node	2870 Jan 24 20:00	23°♐40'17		evening max el	2871 Jan 05 01:27	4°♐36'56	20°01'49
retrograde	2870 Jan 28 19:36	25°♐04'31		asc. node	2871 Jan 11 17:02	9°♐00'03	
evening set	2870 Feb 01 04:17	23°♐58'42		retrograde	2871 Jan 12 17:23	9°♐05'43	
inferior conj	2870 Feb 06 18:04	18°♐09'57	3°22'50	evening set	2871 Jan 16 10:00	7°♐46'10	
minimum elong	2870 Feb 06 16:03	18°♐16'21	3°22'31	inferior conj	2871 Jan 21 20:13	1°♐43'39	2°56'05
min. Earth dist.	2870 Feb 08 05:18	16°♐17'47	0.66002 AU	minimum elong	2871 Jan 21 17:42	1°♐52'05	2°55'28
morning rise	2870 Feb 12 03:32	11°♐57'25		min. Earth dist.	2871 Jan 22 17:29	0°♐32'20	0.67024 AU
direct	2870 Feb 18 13:30	9°♐08'07			2871 Jan 23 03:13	30°♑	
morning max el	2870 Mar 03 08:52	16°♐42'58	26°23'23	morning rise	2871 Jan 27 01:11	25°♑30'03	
desc. node	2870 Mar 03 13:37	16°♐55'00		direct	2871 Feb 01 22:18	22°♑52'31	
	2870 Mar 14 10:08	0°♒		morning max el	2871 Feb 13 17:41	29°♑55'39	25°05'46
	2870 Apr 02 16:00	0°♓			2871 Feb 13 19:24	0°♐	
morning set	2870 Apr 08 10:56	10°♓30'14		desc. node	2871 Feb 18 10:40	5°♐07'56	
max. Earth dist.	2870 Apr 12 13:02	18°♓21'22	1.34934 AU		2871 Mar 08 07:32	0°♑	
				morning set	2871 Mar 21 22:07	22°♑43'18	
superior conj	2870 Apr 17 07:44	27°♓57'48	-0°54'40	max. Earth dist.	2871 Mar 25 13:44	29°♑22'58	1.36726 AU
minimum elong	2870 Apr 17 10:34	28°♓12'20	0°54'08		2871 Mar 25 21:42	0°♓	
	2870 Apr 18 07:30	0°♈					
asc. node	2870 Apr 22 19:20	9°♈21'00		superior conj	2871 Mar 31 20:18	11°♓24'14	-1°21'57
evening rise	2870 Apr 25 00:10	13°♈55'24		minimum elong	2871 Apr 01 00:23	11°♓44'20	1°21'21
	2870 May 03 07:32	0°♉		evening rise	2871 Apr 09 03:51	28°♓06'19	
evening max el	2870 May 13 19:43	14°♉28'54	20°44'21	asc. node	2871 Apr 09 16:21	29°♓09'06	
retrograde	2870 May 25 04:18	20°♉01'07			2871 Apr 10 02:32	0°♈	
evening set	2870 May 27 06:30	19°♉50'34		evening max el	2871 Apr 26 08:37	26°♈01'26	19°35'15

	2871 May 02 06:24	0°♂			2872 Mar 16 21:42	0°♂	
retrograde	2871 May 05 23:23	0°♂40'48		evening rise	2872 Mar 22 24:00	11°♂49'43	
evening set	2871 May 07 23:32	0°♂29'32		asc. node	2872 Mar 26 13:24	18°♂40'32	
	2871 May 09 20:31	30°♂			2872 Apr 01 23:52	0°♂	
inferior conj	2871 May 16 15:44	26°♂25'38 0°13'11		evening max el	2872 Apr 08 08:09	8°♂12'13 18°45'51	
minimum elong	2871 May 16 16:19	26°♂24'44 0°12'59		retrograde	2872 Apr 16 10:58	12°♂10'00	
transit middle	2871 May 16 16:19	26°♂24'44 0°12'59		evening set	2872 Apr 18 16:26	11°♂53'14	
transit begin	2871 May 16 14:02	26°♂28'21		inferior conj	2872 Apr 26 12:55	7°♂32'09 1°50'53	
transit end	2871 May 16 18:36	26°♂21'06		minimum elong	2872 Apr 26 16:32	7°♂25'28 1°49'47	
desc. node	2871 May 17 09:51	25°♂56'50		min. Earth dist.	2872 Apr 29 19:57	5°♂07'32 0.57356 AU	
min. Earth dist.	2871 May 19 03:12	24°♂51'42 0.55752 AU		desc. node	2872 May 03 06:54	2°♂57'59	
morning rise	2871 May 25 06:26	21°♂48'35		morning rise	2872 May 04 13:28	2°♂20'50	
direct	2871 May 29 18:13	21°♂03'17		direct	2872 May 10 01:59	1°♂06'18	
morning max el	2871 Jun 12 18:47	28°♂06'24 24°44'46		morning max el	2872 May 24 10:14	8°♂37'18 26°15'33	
	2871 Jun 14 16:02	0°♂			2872 Jun 09 12:09	0°♂	
	2871 Jul 04 05:44	0°♂		morning set	2872 Jun 21 23:55	23°♂40'08	
asc. node	2871 Jul 06 15:38	4°♂52'08		asc. node	2872 Jun 22 12:42	24°♂47'44	
morning set	2871 Jul 08 12:52	8°♂48'14			2872 Jun 24 22:48	0°♂	
superior conj	2871 Jul 15 12:10	23°♂53'54 1°21'16		superior conj	2872 Jun 28 23:33	8°♂50'24 1°03'21	
minimum elong	2871 Jul 15 09:49	23°♂41'04 1°20'57		minimum elong	2872 Jun 28 21:17	8°♂37'56 1°02'58	
max. Earth dist.	2871 Jul 17 01:06	27°♂14'28 1.32839 AU		max. Earth dist.	2872 Jun 29 11:18	9°♂55'05 1.32283 AU	
	2871 Jul 18 07:50	0°♂		evening rise	2872 Jul 05 22:26	23°♂51'38	
evening rise	2871 Jul 22 17:39	9°♂14'49			2872 Jul 08 22:27	0°♂	
	2871 Aug 02 18:48	0°♂			2872 Jul 26 15:20	0°♂	
desc. node	2871 Aug 13 09:12	16°♂22'42		desc. node	2872 Jul 30 06:13	4°♂44'38	
evening max el	2871 Aug 24 14:24	29°♂34'28 27°25'27		evening max el	2872 Aug 05 20:05	11°♂58'15 27°01'12	
	2871 Aug 25 01:18	0°♂		retrograde	2872 Aug 19 17:31	19°♂10'50	
retrograde	2871 Sep 07 08:01	6°♂51'03		evening set	2872 Aug 26 18:09	16°♂59'40	
evening set	2871 Sep 14 12:48	4°♂17'51		min. Earth dist.	2872 Aug 30 10:21	14°♂18'50 0.61045 AU	
min. Earth dist.	2871 Sep 18 03:35	1°♂16'04 0.62983 AU		inferior conj	2872 Sep 02 14:27	11°♂35'33 -4°24'03	
	2871 Sep 19 11:06	30°♂		minimum elong	2872 Sep 02 19:47	11°♂24'02 4°22'58	
inferior conj	2871 Sep 20 22:06	28°♂33'53 -3°34'36		morning rise	2872 Sep 09 23:11	6°♂44'55	
minimum elong	2871 Sep 21 03:33	28°♂20'35 3°32'59		direct	2872 Sep 12 08:36	6°♂21'53	
morning rise	2871 Sep 27 19:44	23°♂22'30		asc. node	2872 Sep 18 11:54	8°♂59'42	
direct	2871 Sep 30 06:21	22°♂54'41		morning max el	2872 Sep 19 12:18	9°♂55'15 18°00'39	
asc. node	2871 Oct 02 14:50	23°♂21'08			2872 Oct 02 16:09	0°♂	
morning max el	2871 Oct 06 22:30	26°♂20'55 17°50'55		morning set	2872 Oct 05 07:49	4°♂53'07	
	2871 Oct 10 01:41	0°♂					
morning set	2871 Oct 23 04:37	21°♂32'46		superior conj	2872 Oct 15 09:56	23°♂13'19 1°10'11	
	2871 Oct 28 00:17	0°♂		minimum elong	2872 Oct 15 14:18	23°♂32'30 1°09'41	
					2872 Oct 19 07:36	0°♂	
superior conj	2871 Nov 03 20:54	11°♂42'40 0°37'07		max. Earth dist.	2872 Oct 23 00:25	6°♂14'28 1.42096 AU	
minimum elong	2871 Nov 04 00:23	11°♂57'13 0°36'38		desc. node	2872 Oct 26 05:34	11°♂31'20	
desc. node	2871 Nov 09 08:32	20°♂44'37		evening rise	2872 Oct 28 21:35	15°♂48'44	
max. Earth dist.	2871 Nov 10 12:30	22°♂37'37 1.43727 AU			2872 Nov 07 01:48	0°♂	
	2871 Nov 15 03:39	0°♂			2872 Nov 29 04:38	0°♂	
evening rise	2871 Nov 19 02:47	6°♂11'00		evening max el	2872 Nov 30 19:15	1°♂41'46 22°24'36	
	2871 Dec 05 00:28	0°♂		retrograde	2872 Dec 10 11:06	7°♂26'21	
evening max el	2871 Dec 19 01:00	18°♂08'31 21°08'37		evening set	2872 Dec 15 01:02	5°♂35'14	
retrograde	2871 Dec 27 15:06	23°♂14'00		asc. node	2872 Dec 15 11:07	5°♂13'34	
asc. node	2871 Dec 29 14:05	22°♂52'52			2872 Dec 19 20:24	30°♂	
evening set	2871 Dec 31 17:29	21°♂39'16		inferior conj	2872 Dec 20 09:34	29°♂14'30 1°37'15	
inferior conj	2872 Jan 06 02:03	15°♂26'00 2°20'20		minimum elong	2872 Dec 20 07:33	29°♂21'28 1°36'29	
minimum elong	2872 Jan 05 23:34	15°♂34'36 2°19'32		min. Earth dist.	2872 Dec 20 06:55	29°♂23'41 0.67901 AU	
min. Earth dist.	2872 Jan 06 10:48	14°♂55'51 0.67650 AU		morning rise	2872 Dec 25 13:56	23°♂04'14	
morning rise	2872 Jan 11 05:27	9°♂13'10		direct	2872 Dec 30 05:30	21°♂08'33	
direct	2872 Jan 16 11:56	6°♂54'50		morning max el	2873 Jan 08 13:41	26°♂38'14 22°10'32	
morning max el	2872 Jan 27 02:10	13°♂13'22 23°38'14			2873 Jan 11 15:55	0°♂	
desc. node	2872 Feb 05 07:43	24°♂09'38		desc. node	2873 Jan 22 04:47	13°♂46'21	
	2872 Feb 09 14:58	0°♂			2873 Feb 02 05:03	0°♂	
	2872 Feb 29 04:35	0°♂		morning set	2873 Feb 10 18:02	13°♂25'50	
morning set	2872 Mar 02 10:15	3°♂45'49		max. Earth dist.	2873 Feb 16 06:24	22°♂31'25 1.40984 AU	
max. Earth dist.	2872 Mar 06 08:46	10°♂34'39 1.38829 AU			2873 Feb 20 15:25	0°♂	
superior conj	2872 Mar 13 19:38	24°♂08'22 -1°45'32		superior conj	2873 Feb 24 00:59	5°♂58'43 -2°01'44	
minimum elong	2872 Mar 14 00:05	24°♂29'16 1°45'05		minimum elong	2873 Feb 24 03:58	6°♂11'57 2°01'36	

evening rise	2873 Mar 06 09:18	24° Υ 57'57		evening rise	2874 Feb 17 03:39	7° Υ 21'25	
	2873 Mar 09 02:15	0° Υ		asc. node	2874 Feb 28 07:29	26° Υ 28'33	
asc. node	2873 Mar 13 10:27	7° Υ 49'35			2874 Mar 02 18:02	0° Υ	
evening max el	2873 Mar 22 15:15	20° Υ 54'00	18°16'33	evening max el	2874 Mar 06 02:36	3° Υ 57'37	18°07'05
retrograde	2873 Mar 29 17:45	24° Υ 26'47		retrograde	2874 Mar 12 16:20	7° Υ 21'07	
evening set	2873 Apr 01 05:26	24° Υ 01'37		evening set	2874 Mar 15 09:40	6° Υ 45'57	
inferior conj	2873 Apr 08 07:31	19° Υ 19'45	2°55'46	inferior conj	2874 Mar 21 21:01	1° Υ 43'34	3°30'05
minimum elong	2873 Apr 08 11:00	19° Υ 12'11	2°55'01	minimum elong	2874 Mar 21 22:51	1° Υ 39'01	3°29'54
min. Earth dist.	2873 Apr 11 17:31	16° Υ 24'09	0.59411 AU		2874 Mar 23 14:28	30° Υ	
morning rise	2873 Apr 15 14:02	13° Υ 40'54		min. Earth dist.	2874 Mar 24 22:41	28° Υ 41'39	0.61567 AU
desc. node	2873 Apr 20 03:56	11° Υ 59'10		morning rise	2874 Mar 28 10:23	25° Υ 47'11	
direct	2873 Apr 21 22:40	11° Υ 50'32		direct	2874 Apr 04 06:17	23° Υ 23'59	
morning max el	2873 May 06 07:11	19° Υ 38'01	27°20'10	desc. node	2874 Apr 07 00:58	23° Υ 45'55	
	2873 May 15 03:01	0° Υ			2874 Apr 17 01:03	0° Υ	
	2873 Jun 02 05:09	0° Υ		morning max el	2874 Apr 18 10:32	1° Υ 20'20	27°49'21
morning set	2873 Jun 06 08:28	8° Υ 22'49			2874 May 09 07:54	0° Υ	
asc. node	2873 Jun 09 09:45	14° Υ 51'58		morning set	2874 May 21 12:37	22° Υ 50'10	
					2874 May 24 22:53	0° Υ	
superior conj	2873 Jun 13 11:18	23° Υ 45'04	0°41'43	asc. node	2874 May 27 06:47	5° Υ 00'29	
minimum elong	2873 Jun 13 09:34	23° Υ 35'34	0°41'22	max. Earth dist.	2874 May 27 09:38	5° Υ 15'53	1.32339 AU
max. Earth dist.	2873 Jun 12 23:27	22° Υ 39'52	1.32115 AU				
	2873 Jun 16 07:27	0° Υ		superior conj	2874 May 28 21:44	8° Υ 32'31	0°17'02
evening rise	2873 Jun 20 07:34	8° Υ 39'00		minimum elong	2874 May 28 20:58	8° Υ 28'15	0°16'52
	2873 Jul 01 08:52	0° Υ		evening rise	2874 Jun 04 18:58	23° Υ 30'13	
desc. node	2873 Jul 17 03:14	21° Υ 56'22			2874 Jun 07 21:51	0° Υ	
evening max el	2873 Jul 18 18:41	23° Υ 34'30	26°04'17		2874 Jun 26 07:15	0° Υ	
	2873 Jul 28 11:29	0° Υ		evening max el	2874 Jun 30 10:24	4° Υ 26'33	24°41'22
retrograde	2873 Aug 01 18:14	0° Υ 43'58		desc. node	2874 Jul 04 00:14	7° Υ 29'59	
	2873 Aug 05 23:54	30° Υ		retrograde	2874 Jul 14 08:40	11° Υ 29'38	
evening set	2873 Aug 08 02:37	29° Υ 06'26		evening set	2874 Jul 19 11:14	10° Υ 30'42	
min. Earth dist.	2873 Aug 12 07:14	26° Υ 30'25	0.58977 AU	min. Earth dist.	2874 Jul 24 21:35	7° Υ 40'45	0.57037 AU
inferior conj	2873 Aug 15 13:59	24° Υ 03'42	-4°57'09	inferior conj	2874 Jul 27 17:53	5° Υ 49'57	-5°00'50
minimum elong	2873 Aug 15 16:56	23° Υ 58'11	4°56'54	minimum elong	2874 Jul 27 15:45	5° Υ 53'25	5°00'43
morning rise	2873 Aug 23 09:25	19° Υ 36'12		morning rise	2874 Aug 04 22:55	1° Υ 44'06	
direct	2873 Aug 25 20:28	19° Υ 15'51		direct	2874 Aug 07 13:50	1° Υ 24'57	
morning max el	2873 Sep 02 20:27	23° Υ 05'55	18°30'26	morning max el	2874 Aug 16 19:51	5° Υ 44'02	19°21'25
asc. node	2873 Sep 05 08:59	25° Υ 51'01		asc. node	2874 Aug 23 06:01	13° Υ 40'14	
	2873 Sep 08 09:52	0° Υ			2874 Sep 01 09:24	0° Υ	
morning set	2873 Sep 18 23:30	18° Υ 49'07		morning set	2874 Sep 02 23:53	3° Υ 10'52	
	2873 Sep 24 19:02	0° Υ					
superior conj	2873 Sep 27 21:37	5° Υ 50'46	1°31'37	superior conj	2874 Sep 11 02:25	19° Υ 19'34	1°42'38
minimum elong	2873 Sep 28 00:48	6° Υ 05'35	1°31'21	minimum elong	2874 Sep 11 03:48	19° Υ 26'22	1°42'34
max. Earth dist.	2873 Oct 05 07:03	19° Υ 08'39	1.40118 AU		2874 Sep 16 17:06	0° Υ	
evening rise	2873 Oct 09 13:32	26° Υ 24'50		max. Earth dist.	2874 Sep 17 10:57	1° Υ 22'04	1.38051 AU
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desc. node	2873 Oct 13 02:34	2° Υ 13'54		desc. node	2874 Sep 29 23:35	22° Υ 48'46	
	2873 Oct 31 18:13	0° Υ			2874 Oct 04 14:20	0° Υ	
evening max el	2873 Nov 13 09:23	15° Υ 17'12	23°44'30	evening max el	2874 Oct 26 21:40	28° Υ 56'40	25°01'48
retrograde	2873 Nov 24 04:01	21° Υ 38'40			2874 Oct 28 00:08	0° Υ	
evening set	2873 Nov 29 07:01	19° Υ 30'50		retrograde	2874 Nov 07 16:55	5° Υ 47'18	
asc. node	2873 Dec 02 08:11	16° Υ 15'03		evening set	2874 Nov 13 09:50	3° Υ 23'57	
min. Earth dist.	2873 Dec 04 03:30	13° Υ 52'07	0.67802 AU		2874 Nov 16 14:39	30° Υ	
inferior conj	2873 Dec 04 16:54	13° Υ 06'28	0°48'06	min. Earth dist.	2874 Nov 17 22:16	28° Υ 19'16	0.67368 AU
minimum elong	2873 Dec 04 15:47	13° Υ 10'16	0°47'38	inferior conj	2874 Nov 18 22:20	27° Υ 00'17	-0°05'55
morning rise	2873 Dec 10 00:32	7° Υ 00'36		minimum elong	2874 Nov 18 22:29	26° Υ 59'48	0°05'51
direct	2873 Dec 14 01:59	5° Υ 27'45		transit middle	2874 Nov 18 22:29	26° Υ 59'48	0°05'51
morning max el	2873 Dec 22 07:32	10° Υ 13'03	20°50'11	transit begin	2874 Nov 18 19:54	27° Υ 08'17	
	2874 Jan 06 11:50	0° Υ		transit end	2874 Nov 19 01:04	26° Υ 51'19	
desc. node	2874 Jan 09 01:48	3° Υ 47'46		asc. node	2874 Nov 19 05:13	26° Υ 37'42	
morning set	2874 Jan 20 23:16	21° Υ 53'30		morning rise	2874 Nov 24 11:18	21° Υ 01'00	
	2874 Jan 26 02:37	0° Υ		direct	2874 Nov 28 00:17	19° Υ 48'43	
max. Earth dist.	2874 Jan 29 10:44	5° Υ 22'28	1.42895 AU	morning max el	2874 Dec 05 09:13	23° Υ 59'07	19°42'13
					2874 Dec 10 11:58	0° Υ	
superior conj	2874 Feb 05 07:04	16° Υ 42'28	-2°05'46	greatest brilliancy	2874 Dec 18 14:09	11° Υ 27'39	-0.7m
minimum elong	2874 Feb 05 05:51	16° Υ 37'17	2°05'45	desc. node	2874 Dec 26 22:50	24° Υ 07'22	
	2874 Feb 13 00:00	0° Υ		morning set	2874 Dec 30 19:25	0° Υ 03'37	
					2874 Dec 30 18:28	0° Υ	





















































































































max. Earth dist.	2875 Jan 11 22:05	19°♄00'12	1.44321 AU	max. Earth dist.	2875 Dec 25 14:54	3°♄10'33	1.45093 AU
superior conj	2875 Jan 16 10:58	26°♄15'39	-1°52'35	superior conj	2875 Dec 26 17:48	4°♄56'15	-1°20'13
minimum elong	2875 Jan 16 04:03	25°♄47'49	1°52'07	minimum elong	2875 Dec 26 08:55	4°♄21'20	1°19'15
	2875 Jan 18 18:22	0°♄		evening rise	2876 Jan 11 03:03	29°♄25'27	
evening rise	2875 Jan 30 02:43	18°♄51'59			2876 Jan 11 11:37	0°♄	
	2875 Feb 05 16:48	0°♄			2876 Jan 31 10:48	0°♄	
asc. node	2875 Feb 15 04:30	14°♄28'09		evening max el	2876 Feb 01 02:33	0°♄41'30	18°44'34
evening max el	2875 Feb 17 15:14	17°♄15'25	18°16'44	asc. node	2876 Feb 02 01:31	1°♄37'00	
retrograde	2875 Feb 24 02:04	20°♄43'05		retrograde	2876 Feb 07 18:55	4°♄25'05	
evening set	2875 Feb 27 00:53	19°♄56'47		evening set	2876 Feb 10 23:45	3°♄26'38	
inferior conj	2875 Mar 05 01:21	14°♄35'09	3°40'32		2876 Feb 14 19:55	30°♄	
minimum elong	2875 Mar 05 01:20	14°♄35'13	3°40'33	inferior conj	2876 Feb 16 16:38	27°♄47'19	3°33'15
min. Earth dist.	2875 Mar 07 13:00	11°♄49'20	0.63562 AU	minimum elong	2876 Feb 16 15:11	27°♄51'45	3°33'07
morning rise	2875 Mar 11 00:53	8°♄29'14		min. Earth dist.	2876 Feb 18 12:39	25°♄33'06	0.65227 AU
direct	2875 Mar 17 22:43	5°♄44'30		morning rise	2876 Feb 22 06:12	21°♄36'36	
desc. node	2875 Mar 24 22:00	8°♄02'54		direct	2876 Feb 28 22:14	18°♄45'01	
morning max el	2875 Mar 31 18:21	13°♄41'20	27°41'06	desc. node	2876 Mar 10 19:02	24°♄15'41	
	2875 Apr 13 21:58	0°♄		morning max el	2876 Mar 13 03:59	26°♄31'10	26°59'30
	2875 May 01 20:56	0°♄			2876 Mar 16 09:47	0°♄	
morning set	2875 May 05 09:56	6°♄53'47			2876 Apr 06 12:10	0°♄	
max. Earth dist.	2875 May 10 13:44	17°♄29'16	1.32988 AU	morning set	2876 Apr 17 21:25	20°♄24'20	
				max. Earth dist.	2876 Apr 22 08:12	29°♄11'12	1.34089 AU
					2876 Apr 22 17:50	0°♄	
superior conj	2875 May 13 05:02	23°♄06'11	-0°09'58				
minimum elong	2875 May 13 05:31	23°♄08'49	0°09'52				
behind sun begin	2875 May 13 01:19	22°♄46'15		superior conj	2876 Apr 26 07:09	7°♄19'51	-0°38'16
behind sun end	2875 May 13 09:44	23°♄31'25		minimum elong	2876 Apr 26 09:07	7°♄30'09	0°37'53
asc. node	2875 May 14 03:48	25°♄08'38		asc. node	2876 Apr 30 00:50	15°♄12'35	
	2875 May 16 09:45	0°♄		evening rise	2876 May 03 16:59	22°♄57'16	
evening rise	2875 May 20 06:43	8°♄18'18			2876 May 07 03:38	0°♄	
	2875 May 31 15:30	0°♄		evening max el	2876 May 23 18:54	25°♄30'47	21°32'21
evening max el	2875 Jun 11 23:55	14°♄54'39	23°05'39		2876 May 29 20:40	0°♄	
desc. node	2875 Jun 20 21:15	20°♄49'40		retrograde	2876 Jun 05 01:15	1°♄32'07	
retrograde	2875 Jun 25 10:30	21°♄36'54		desc. node	2876 Jun 06 18:14	1°♄25'26	
evening set	2875 Jun 29 00:39	21°♄08'41		evening set	2876 Jun 07 11:48	1°♄18'36	
min. Earth dist.	2875 Jul 06 09:14	17°♄50'24	0.55571 AU		2876 Jun 11 15:46	30°♄	
inferior conj	2875 Jul 08 02:09	16°♄50'49	-4°20'29	inferior conj	2876 Jun 16 21:25	27°♄18'04	-2°51'48
minimum elong	2875 Jul 07 18:54	17°♄01'26	4°19'03	minimum elong	2876 Jun 16 13:56	27°♄28'31	2°49'25
morning rise	2875 Jul 16 15:34	12°♄58'04		min. Earth dist.	2876 Jun 16 20:40	27°♄19'06	0.54897 AU
direct	2875 Jul 19 12:18	12°♄38'30		morning rise	2876 Jun 25 16:54	23°♄22'38	
morning max el	2875 Jul 30 07:59	17°♄39'34	20°33'44	direct	2876 Jun 28 23:12	22°♄59'26	
	2875 Aug 08 19:31	0°♄		morning max el	2876 Jul 11 08:39	28°♄50'25	22°04'38
asc. node	2875 Aug 10 03:03	2°♄13'10			2876 Jul 12 13:19	0°♄	
morning set	2875 Aug 18 06:03	17°♄49'23		asc. node	2876 Jul 27 00:05	21°♄19'30	
	2875 Aug 24 03:28	0°♄			2876 Jul 31 09:09	0°♄	
				morning set	2876 Aug 01 15:49	2°♄38'49	
superior conj	2875 Aug 25 19:22	3°♄24'14	1°44'59				
minimum elong	2875 Aug 25 19:06	3°♄22'53	1°44'58	superior conj	2876 Aug 08 20:46	17°♄53'58	1°40'14
max. Earth dist.	2875 Aug 30 17:49	13°♄13'58	1.36137 AU	minimum elong	2876 Aug 08 19:17	17°♄46'09	1°40'08
evening rise	2875 Sep 03 17:47	20°♄48'54		max. Earth dist.	2876 Aug 12 08:45	25°♄10'08	1.34545 AU
	2875 Sep 08 20:48	0°♄			2876 Aug 14 18:12	0°♄	
desc. node	2875 Sep 16 20:36	13°♄10'11		evening rise	2876 Aug 16 22:28	4°♄16'33	
	2875 Sep 28 12:35	0°♄			2876 Aug 31 15:45	0°♄	
evening max el	2875 Oct 09 09:53	12°♄37'34	26°09'15	desc. node	2876 Sep 02 17:36	3°♄11'44	
retrograde	2875 Oct 22 00:54	19°♄46'21		evening max el	2876 Sep 20 22:26	26°♄12'32	26°59'10
evening set	2875 Oct 28 07:38	17°♄10'42			2876 Sep 25 09:45	0°♄	
min. Earth dist.	2875 Nov 01 12:49	12°♄41'29	0.66590 AU	retrograde	2876 Oct 04 03:20	3°♄29'02	
inferior conj	2875 Nov 03 00:01	10°♄52'28	-1°03'31	evening set	2876 Oct 10 22:16	0°♄46'46	
minimum elong	2875 Nov 03 01:42	10°♄47'14	1°02'48		2876 Oct 11 20:13	30°♄	
asc. node	2875 Nov 06 02:14	7°♄17'21		min. Earth dist.	2876 Oct 14 20:42	26°♄53'50	0.65463 AU
morning rise	2875 Nov 08 20:13	5°♄02'27		inferior conj	2876 Oct 16 19:52	24°♄38'43	-2°03'05
direct	2875 Nov 11 22:46	4°♄07'19		minimum elong	2876 Oct 16 23:13	24°♄29'04	2°01'46
morning max el	2875 Nov 18 18:02	7°♄53'20	18°49'26	asc. node	2876 Oct 22 23:17	19°♄03'15	
	2875 Dec 04 12:01	0°♄		morning rise	2876 Oct 23 00:58	19°♄01'09	
morning set	2875 Dec 10 07:45	9°♄09'02		direct	2876 Oct 25 19:25	18°♄19'22	
desc. node	2875 Dec 13 19:53	14°♄39'55		morning max el	2876 Nov 01 07:57	21°♄50'44	18°13'06
	2875 Dec 23 14:22	0°♄			2876 Nov 07 17:10	0°♄	

morning set	2876 Nov 20 00:56	19°  42'05		superior conj	2877 Nov 14 16:09	23°  01'16	0°13'02
	2876 Nov 26 08:59	0°  7		minimum elong	2877 Nov 14 17:35	23°  07'09	0°12'49
desc. node	2876 Nov 29 16:56	5°  20'58		behind sun begin	2877 Nov 14 11:27	22°  42'08	
				behind sun end	2877 Nov 14 23:43	23°  32'08	
superior conj	2876 Dec 04 20:39	13°  32'27	-0°34'25	desc. node	2877 Nov 16 13:57	26°  07'08	
minimum elong	2876 Dec 04 16:15	13°  15'04	0°33'49		2877 Nov 18 23:55	0°  7	
max. Earth dist.	2876 Dec 07 10:23	17°  35'41	1.45127 AU	max. Earth dist.	2877 Nov 20 04:59	1°  55'55	1.44427 AU
	2876 Dec 15 08:38	0°  3		evening rise	2877 Nov 30 15:50	18°  15'57	
evening rise	2876 Dec 21 04:53	9°  06'24			2877 Dec 08 08:40	0°  3	
greatest brilliancy	2877 Jan 02 05:26	27°  34'15	-0.7m	evening max el	2877 Dec 28 13:03	27°  34'13	20°28'43
	2877 Jan 03 18:06	0°  3			2877 Dec 31 00:49	0°  3	
evening max el	2877 Jan 14 10:20	14°  11'04	19°29'14	retrograde	2878 Jan 05 13:44	2°  26'03	
asc. node	2877 Jan 18 22:33	17°  40'57		asc. node	2878 Jan 05 19:36	2°  25'43	
retrograde	2877 Jan 21 15:38	18°  20'45		evening set	2878 Jan 09 10:21	1°  00'01	
evening set	2877 Jan 25 03:36	17°  09'05			2878 Jan 10 14:27	30°  R3	
inferior conj	2877 Jan 30 15:37	11°  14'11	3°12'42	inferior conj	2878 Jan 14 19:38	24°  35'21	2°41'55
minimum elong	2877 Jan 30 13:19	11°  21'39	3°12'15	minimum elong	2878 Jan 14 17:04	25°  30'01	2°41'11
min. Earth dist.	2877 Jan 31 20:40	9°  39'21	0.66491 AU	min. Earth dist.	2878 Jan 15 11:17	23°  35'57	0.67342 AU
morning rise	2877 Feb 04 22:48	5°  01'14		morning rise	2878 Jan 19 23:37	18°  38'52	
direct	2877 Feb 11 03:42	2°  15'55		direct	2878 Jan 25 14:31	16°  30'11	
morning max el	2877 Feb 23 13:22	9°  38'11	25°52'16	morning max el	2878 Feb 05 22:01	22°  35'17	24°29'08
desc. node	2877 Feb 25 16:05	11°  51'52			2878 Feb 12 04:13	0°  3	
	2877 Mar 11 15:27	0°  H		desc. node	2878 Feb 12 13:10	0°  27'49	
	2877 Mar 30 01:25	0°  Y			2878 Mar 04 23:55	0°  H	
morning set	2877 Mar 31 18:53	3°  Y09'05		morning set	2878 Mar 13 21:00	14°  H53'51	
max. Earth dist.	2877 Apr 04 15:14	10°  Y23'20	1.35651 AU	max. Earth dist.	2878 Mar 17 13:00	21°  H26'09	1.37603 AU
					2878 Mar 22 03:43	0°  Y	
superior conj	2877 Apr 10 01:30	21°  Y05'20	-1°06'31				
minimum elong	2877 Apr 10 04:55	21°  Y22'36	1°05'55	superior conj	2878 Mar 24 08:54	4°  Y14'33	-1°32'37
	2877 Apr 14 10:09	0°  8		minimum elong	2878 Mar 24 13:18	4°  Y35'47	1°32'02
asc. node	2877 Apr 16 21:52	5°  807'30		evening rise	2878 Apr 02 00:34	21°  Y20'03	
evening rise	2877 Apr 17 23:43	7°  819'58		asc. node	2878 Apr 03 18:54	24°  Y49'03	
	2877 Apr 30 12:41	0°  II			2878 Apr 06 11:23	0°  8	
evening max el	2877 May 06 00:40	6°  II38'34	20°12'36	evening max el	2878 Apr 18 18:14	18°  826'56	19°11'40
retrograde	2877 May 16 15:05	11°  II47'38		retrograde	2878 Apr 27 16:42	22°  847'14	
evening set	2877 May 18 15:11	11°  II37'23		evening set	2878 Apr 29 18:33	22°  834'09	
desc. node	2877 May 24 15:15	9°  II23'34		inferior conj	2878 May 08 02:28	18°  823'27	0°58'25
inferior conj	2877 May 27 16:55	7°  II38'39	-0°54'08	minimum elong	2878 May 08 04:46	18°  819'33	0°57'37
minimum elong	2877 May 27 14:23	7°  II42'24	0°53'10	min. Earth dist.	2878 May 11 00:16	16°  826'13	0.56352 AU
min. Earth dist.	2877 May 29 09:14	6°  II39'03	0.55172 AU	desc. node	2878 May 11 12:19	16°  806'51	
morning rise	2877 Jun 05 12:08	3°  II21'09		morning rise	2878 May 16 11:55	13°  831'18	
direct	2877 Jun 09 10:53	2°  II47'22		direct	2878 May 21 10:01	12°  835'08	
morning max el	2877 Jun 23 01:12	9°  II26'39	23°46'33	morning max el	2878 Jun 04 15:32	19°  851'59	25°25'58
	2877 Jul 08 03:22	0°  3			2878 Jun 13 06:29	0°  II	
asc. node	2877 Jul 13 21:09	10°  350'28			2878 Jun 30 10:45	0°  3	
morning set	2877 Jul 17 03:23	17°  33'48		asc. node	2878 Jun 30 18:12	0°  338'48	
	2877 Jul 22 22:10	0°  9		morning set	2878 Jul 01 15:04	2°  328'26	
superior conj	2877 Jul 24 03:47	2°  940'07	1°29'37	superior conj	2878 Jul 08 14:07	17°  334'49	1°14'10
minimum elong	2877 Jul 24 01:36	2°  928'20	1°29'24	minimum elong	2878 Jul 08 11:44	17°  321'49	1°13'49
max. Earth dist.	2877 Jul 26 08:53	7°  924'47	1.33341 AU	max. Earth dist.	2878 Jul 09 16:10	19°  357'16	1.32544 AU
evening rise	2877 Jul 31 15:07	18°  919'04			2878 Jul 14 08:26	0°  9	
	2877 Aug 06 16:52	0°  np		evening rise	2878 Jul 15 16:16	2°  945'44	
desc. node	2877 Aug 20 14:36	22°  np45'06			2878 Jul 30 12:37	0°  np	
	2877 Aug 25 22:47	0°  3		desc. node	2878 Aug 07 11:37	11°  np37'58	
evening max el	2877 Sep 03 10:01	9°  330'00	27°24'24	evening max el	2878 Aug 16 18:20	22°  np16'11	27°19'15
retrograde	2877 Sep 16 23:46	16°  347'33		retrograde	2878 Aug 30 13:47	29°  np31'45	
evening set	2877 Sep 24 03:01	14°  307'27		evening set	2878 Sep 06 18:13	27°  np05'53	
min. Earth dist.	2877 Sep 27 19:44	10°  348'59	0.63985 AU	min. Earth dist.	2878 Sep 10 08:27	24°  np15'00	0.62183 AU
inferior conj	2877 Sep 30 07:27	8°  313'51	-3°02'11	inferior conj	2878 Sep 13 07:46	21°  np30'06	-3°56'57
minimum elong	2877 Sep 30 12:19	8°  301'11	3°00'32	minimum elong	2878 Sep 13 13:23	21°  np17'04	3°55'29
morning rise	2877 Oct 06 22:48	2°  352'09		morning rise	2878 Sep 20 10:10	16°  np27'33	
direct	2877 Oct 09 11:34	2°  320'09		direct	2878 Sep 22 19:53	16°  np02'09	
asc. node	2877 Oct 09 20:22	2°  320'50		asc. node	2878 Sep 26 17:26	17°  np11'00	
morning max el	2877 Oct 16 00:18	5° 345'38	17°53'56	morning max el	2878 Sep 29 16:00	19° np30'11	17°52'45
	2877 Oct 31 23:19	0° np			2878 Oct 07 09:02	0° 3	
morning set	2877 Nov 01 21:30	1° np35'09		morning set	2878 Oct 15 15:14	14° 328'22	

	2878 Oct 24 09:06	0°♄		morning set	2879 Sep 29 00:17	28°♄05'25	
					2879 Sep 30 00:37	0°♄	
superior conj	2878 Oct 26 14:02	3°♄47'57	0°52'33				
minimum elong	2878 Oct 26 18:15	4°♄05'55	0°52'01	superior conj	2879 Oct 08 13:22	15°♄49'03	1°20'38
max. Earth dist.	2878 Nov 02 19:20	15°♄51'00	1.43088 AU	minimum elong	2879 Oct 08 17:23	16°♄07'08	1°20'13
desc. node	2878 Nov 03 10:58	16°♄54'33		max. Earth dist.	2879 Oct 16 04:21	29°♄08'29	1.41284 AU
evening rise	2878 Nov 10 02:56	27°♄31'03			2879 Oct 16 16:34	0°♄	
	2878 Nov 11 17:14	0°♄		evening rise	2879 Oct 21 05:54	7°♄31'42	
	2878 Dec 02 04:37	0°♄		desc. node	2879 Oct 21 07:59	7°♄40'08	
evening max el	2878 Dec 11 10:07	11°♄13'52	21°40'00		2879 Nov 04 20:58	0°♄	
retrograde	2878 Dec 20 11:03	16°♄36'35		evening max el	2879 Nov 24 02:23	24°♄48'02	22°58'28
asc. node	2878 Dec 23 16:40	15°♄39'26			2879 Nov 30 20:47	0°♄	
evening set	2878 Dec 24 18:04	14°♄54'59		retrograde	2879 Dec 04 05:56	0°♄49'10	
inferior conj	2878 Dec 30 02:26	8°♄37'49	2°02'53		2879 Dec 07 09:01	30°♄♂	
minimum elong	2878 Dec 30 00:05	8°♄45'57	2°02'04	evening set	2879 Dec 09 01:08	28°♄51'11	
min. Earth dist.	2878 Dec 30 06:11	8°♄24'48	0.67801 AU	asc. node	2879 Dec 10 13:43	27°♄23'27	
morning rise	2879 Jan 04 05:57	2°♄25'40		inferior conj	2879 Dec 14 10:05	22°♄28'22	1°17'04
direct	2879 Jan 09 05:54	0°♄16'54		minimum elong	2879 Dec 14 08:24	22°♄34'09	1°16'24
morning max el	2879 Jan 19 07:29	6°♄15'16	23°00'21	min. Earth dist.	2879 Dec 14 02:54	22°♄53'11	0.67903 AU
desc. node	2879 Jan 30 10:13	19°♄45'57		morning rise	2879 Dec 19 15:34	16°♄19'26	
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morning set	2879 Feb 22 21:35	25°♄22'45		morning max el	2880 Jan 01 21:13	19°♄43'36	21°34'55
	2879 Feb 25 15:33	0°♄			2880 Jan 10 10:35	0°♄	
max. Earth dist.	2879 Feb 27 07:58	2°♄52'58	1.39754 AU	desc. node	2880 Jan 17 07:15	9°♄34'15	
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superior conj	2879 Mar 07 01:11	16°♄37'19	-1°53'34	morning set	2880 Feb 02 16:59	4°♄28'12	
minimum elong	2879 Mar 07 05:18	16°♄56'14	1°53'15	max. Earth dist.	2880 Feb 09 07:37	15°♄10'47	1.41843 AU
	2879 Mar 14 03:59	0°♄					
evening rise	2879 Mar 16 16:33	4°♄49'51		superior conj	2880 Feb 16 21:15	28°♄00'54	-2°05'15
asc. node	2879 Mar 21 15:57	14°♄12'09		minimum elong	2880 Feb 16 22:47	28°♄07'34	2°05'14
	2879 Apr 01 00:52	0°♄			2880 Feb 18 00:32	0°♄	
evening max el	2879 Apr 01 21:24	0°♄52'28	18°30'57	evening rise	2880 Feb 27 19:59	17°♄39'55	
retrograde	2879 Apr 09 12:35	4°♄37'42			2880 Mar 05 16:19	0°♄	
evening set	2879 Apr 11 20:35	4°♄17'47		asc. node	2880 Mar 07 13:00	3°♄09'35	
inferior conj	2879 Apr 19 08:54	29°♄48'18	2°22'29	evening max el	2880 Mar 15 06:47	13°♄45'13	18°10'13
minimum elong	2879 Apr 19 12:46	29°♄40'39	2°21'26	retrograde	2880 Mar 22 02:23	17°♄11'52	
	2879 Apr 19 02:58	30°♄♂		evening set	2880 Mar 24 16:37	16°♄42'34	
min. Earth dist.	2879 Apr 22 19:07	27°♄07'14	0.58190 AU	inferior conj	2880 Mar 31 11:58	11°♄52'09	3°13'39
morning rise	2879 Apr 27 01:52	24°♄23'44		minimum elong	2880 Mar 31 14:51	11°♄45'31	3°13'10
desc. node	2879 Apr 28 09:22	23°♄48'38		min. Earth dist.	2880 Apr 03 19:37	8°♄50'42	0.60337 AU
direct	2879 May 02 23:48	22°♄53'59		morning rise	2880 Apr 07 10:54	6°♄04'55	
	2879 May 16 18:53	0°♄		direct	2880 Apr 14 01:47	3°♄59'19	
morning max el	2879 May 17 09:07	0°♄34'11	26°47'00	desc. node	2880 Apr 14 06:25	3°♄59'26	
	2879 Jun 07 05:31	0°♄		morning max el	2880 Apr 28 08:38	11°♄51'29	27°37'07
morning set	2879 Jun 16 01:15	17°♄17'33			2880 May 12 14:48	0°♄	
asc. node	2879 Jun 17 15:14	20°♄39'01			2880 May 29 09:56	0°♄	
	2879 Jun 21 22:18	0°♄		morning set	2880 May 30 08:07	1°♄54'15	
				asc. node	2880 Jun 03 12:15	10°♄45'33	
superior conj	2879 Jun 23 01:52	2°♄31'51	0°54'36	max. Earth dist.	2880 Jun 05 15:06	15°♄22'37	1.32161 AU
minimum elong	2879 Jun 22 23:47	2°♄20'21	0°54'13				
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evening rise	2879 Jun 29 23:10	17°♄28'16		minimum elong	2880 Jun 06 11:53	17°♄16'41	0°31'18
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desc. node	2879 Jul 25 08:38	29°♄33'28		evening rise	2880 Jun 13 09:28	2°♄18'09	
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evening max el	2879 Jul 29 21:06	4°♄20'23	26°40'52	evening max el	2880 Jul 10 16:42	15°♄36'58	25°31'37
retrograde	2879 Aug 12 20:08	11°♄32'31		desc. node	2880 Jul 11 05:39	16°♄07'23	
evening set	2879 Aug 19 15:18	9°♄34'26		retrograde	2880 Jul 24 16:37	22°♄44'07	
min. Earth dist.	2879 Aug 23 10:56	6°♄57'48	0.60161 AU	evening set	2880 Jul 30 13:35	21°♄23'27	
inferior conj	2879 Aug 26 17:22	4°♄18'55	-4°40'50	min. Earth dist.	2880 Aug 04 04:46	18°♄43'23	0.58116 AU
minimum elong	2879 Aug 26 22:02	4°♄09'25	4°40'05	inferior conj	2880 Aug 07 08:45	16°♄30'01	-5°03'16
	2879 Sep 02 05:47	30°♄♂		minimum elong	2880 Aug 07 09:48	16°♄28'09	5°03'13
morning rise	2879 Sep 03 06:47	29°♄38'04		morning rise	2880 Aug 15 08:21	12°♄11'48	
direct	2879 Sep 05 16:23	29°♄16'34		direct	2880 Aug 17 20:47	11°♄52'06	
	2879 Sep 09 00:09	0°♄		morning max el	2880 Aug 26 08:28	15°♄53'22	18°49'28
morning max el	2879 Sep 13 03:49	2°♄56'04	18°10'46	asc. node	2880 Aug 30 11:30	20°♄39'47	
asc. node	2879 Sep 13 14:29	3°♄22'30			2880 Sep 05 08:50	0°♄	


































































































































morning set	2880 Sep 11 20:04	12° \mathbb{M} 13'27		morning rise	2881 Jul 27 12:38	23° \mathfrak{G} 57'20	
				direct	2881 Jul 30 06:03	23° \mathfrak{G} 38'04	
superior conj	2880 Sep 20 08:56	28° \mathbb{M} 49'47	1°37'28	morning max el	2881 Aug 09 03:07	28° \mathfrak{G} 13'11	19°49'43
minimum elong	2880 Sep 20 11:22	29° \mathbb{M} 01'24	1°37'17		2881 Aug 10 21:21	0° Ω	
	2880 Sep 20 23:45	0° \mathfrak{L}		asc. node	2881 Aug 17 08:31	8° Ω 48'41	
max. Earth dist.	2880 Sep 27 09:23	11° \mathfrak{L} 44'23	1.39237 AU	morning set	2881 Aug 26 23:10	26° Ω 42'59	
evening rise	2880 Oct 01 08:07	18° \mathfrak{L} 36'42			2881 Aug 28 14:01	0° \mathbb{M}	
desc. node	2880 Oct 07 04:59	28° \mathfrak{L} 20'11					
	2880 Oct 08 05:55	0° \mathbb{M}		superior conj	2881 Sep 03 19:21	12° \mathbb{M} 34'52	1°44'36
	2880 Oct 29 04:43	0° \mathfrak{A}		minimum elong	2881 Sep 03 20:00	12° \mathbb{M} 38'06	1°44'35
evening max el	2880 Nov 05 15:40	8° \mathfrak{A} 26'20	24°18'12	max. Earth dist.	2881 Sep 09 14:09	23° \mathbb{M} 46'52	1.37204 AU
retrograde	2880 Nov 16 21:07	15° \mathfrak{A} 00'47			2881 Sep 12 23:07	0° \mathfrak{L}	
evening set	2880 Nov 22 05:58	12° \mathfrak{A} 46'20		evening rise	2881 Sep 13 09:06	0° \mathfrak{L} 45'00	
asc. node	2880 Nov 26 10:44	8° \mathfrak{A} 02'43		desc. node	2881 Sep 24 01:59	18° \mathfrak{L} 49'58	
min. Earth dist.	2880 Nov 26 23:00	7° \mathfrak{A} 21'53	0.67661 AU		2881 Oct 01 10:41	0° \mathbb{M}	
inferior conj	2880 Nov 27 16:50	6° \mathfrak{A} 21'58	0°25'44	evening max el	2881 Oct 19 03:47	22° \mathbb{M} 07'02	25°32'13
minimum elong	2880 Nov 27 16:13	6° \mathfrak{A} 24'04	0°25'28	retrograde	2881 Oct 31 07:50	29° \mathbb{M} 06'13	
morning rise	2880 Dec 03 02:29	0° \mathfrak{A} 18'32		evening set	2881 Nov 06 06:52	26° \mathbb{M} 37'00	
	2880 Dec 03 13:12	30° \mathfrak{R} \mathbb{M}		min. Earth dist.	2881 Nov 10 16:07	21° \mathbb{M} 47'31	0.67079 AU
direct	2880 Dec 06 22:31	28° \mathbb{M} 54'33		inferior conj	2881 Nov 11 20:52	20° \mathbb{M} 15'18	-0°30'00
	2880 Dec 10 13:26	0° \mathfrak{A}		minimum elong	2881 Nov 11 21:39	20° \mathbb{M} 12'50	0°29'39
morning max el	2880 Dec 14 18:16	3° \mathfrak{A} 23'22	20°19'32	asc. node	2881 Nov 13 07:46	18° \mathbb{M} 25'22	
desc. node	2881 Jan 03 04:16	29° \mathfrak{A} 44'37		morning rise	2881 Nov 17 12:43	14° \mathbb{M} 19'52	
	2881 Jan 03 08:21	0° \mathfrak{B}		direct	2881 Nov 20 21:04	13° \mathbb{M} 15'17	
morning set	2881 Jan 11 15:23	12° \mathfrak{B} 39'50		morning max el	2881 Nov 27 23:12	17° \mathbb{M} 13'38	19°17'56
max. Earth dist.	2881 Jan 21 15:27	28° \mathfrak{B} 25'18	1.43580 AU		2881 Dec 07 20:00	0° \mathfrak{A}	
	2881 Jan 22 14:59	0° \approx		greatest brilliancy	2881 Dec 11 17:49	5° \mathfrak{A} 50'37	-0.7m
				desc. node	2881 Dec 21 01:16	20° \mathfrak{A} 10'26	
superior conj	2881 Jan 27 16:21	8° \approx 15'22	-2°02'32	morning set	2881 Dec 21 15:50	21° \mathfrak{A} 06'54	
minimum elong	2881 Jan 27 12:40	8° \approx 00'08	2°02'24		2881 Dec 27 08:54	0° \mathfrak{B}	
evening rise	2881 Feb 09 06:40	29° \approx 42'15		max. Earth dist.	2882 Jan 04 06:05	12° \mathfrak{B} 21'35	1.44739 AU
	2881 Feb 09 10:44	0° \mathfrak{H}					
asc. node	2881 Feb 22 10:02	21° \mathfrak{H} 33'28		superior conj	2882 Jan 07 09:56	17° \mathfrak{B} 22'03	-1°41'05
evening max el	2881 Feb 26 19:05	26° \mathfrak{H} 56'24	18°08'53	minimum elong	2882 Jan 07 01:23	16° \mathfrak{B} 48'05	1°40'19
	2881 Mar 03 06:56	0° \mathfrak{Y}			2882 Jan 15 06:23	0° \approx	
retrograde	2881 Mar 05 06:16	0° \mathfrak{Y} 19'50		evening rise	2882 Jan 21 20:24	10° \approx 49'19	
	2881 Mar 07 05:47	30° \mathfrak{R} \mathfrak{H}			2882 Feb 02 13:55	0° \mathfrak{H}	
evening set	2881 Mar 08 02:02	29° \mathfrak{H} 39'51		asc. node	2882 Feb 09 07:04	9° \mathfrak{H} 13'10	
inferior conj	2881 Mar 14 08:18	24° \mathfrak{H} 28'56	3°37'00	evening max el	2882 Feb 10 07:25	10° \mathfrak{H} 18'15	18°26'19
minimum elong	2881 Mar 14 09:19	24° \mathfrak{H} 26'16	3°36'57	retrograde	2882 Feb 16 19:37	13° \mathfrak{H} 51'30	
min. Earth dist.	2881 Mar 17 04:19	21° \mathfrak{H} 31'51	0.62456 AU	evening set	2882 Feb 19 20:54	13° \mathfrak{H} 00'04	
morning rise	2881 Mar 20 15:21	18° \mathfrak{H} 28'01		inferior conj	2882 Feb 25 17:46	7° \mathfrak{H} 30'21	3°39'18
direct	2881 Mar 27 13:13	15° \mathfrak{H} 54'12		minimum elong	2882 Feb 25 17:04	7° \mathfrak{H} 32'23	3°39'16
desc. node	2881 Apr 01 03:26	16° \mathfrak{H} 54'17		min. Earth dist.	2882 Feb 27 22:39	4° \mathfrak{H} 56'49	0.64319 AU
morning max el	2881 Apr 10 14:03	23° \mathfrak{H} 50'49	27°50'14	morning rise	2882 Mar 03 12:35	1° \mathfrak{H} 21'50	
	2881 Apr 16 02:50	0° \mathfrak{Y}			2882 Mar 05 10:15	30° \mathfrak{R} \approx	
	2881 May 05 22:00	0° \mathfrak{B}		direct	2882 Mar 10 08:35	28° \approx 32'48	
morning set	2881 May 14 09:38	16° \mathfrak{B} 12'12			2882 Mar 15 17:23	0° \mathfrak{H}	
max. Earth dist.	2881 May 19 23:15	27° \mathfrak{B} 50'52	1.32571 AU	desc. node	2882 Mar 19 00:28	2° \mathfrak{H} 04'57	
	2881 May 20 23:14	0° \mathbb{I}		morning max el	2882 Mar 23 23:12	6° \mathfrak{H} 26'19	27°27'06
asc. node	2881 May 21 09:17	0° \mathbb{I} 54'25			2882 Apr 11 00:09	0° \mathfrak{Y}	
				morning set	2882 Apr 28 03:14	0° \mathfrak{B} 03'15	
superior conj	2881 May 21 22:33	2° \mathbb{I} 06'21	0°05'50		2882 Apr 28 02:34	0° \mathfrak{B}	
minimum elong	2881 May 21 22:17	2° \mathbb{I} 04'52	0°05'46	max. Earth dist.	2882 May 02 23:56	9° \mathfrak{B} 53'00	1.33404 AU
behind sun begin	2881 May 21 17:25	1° \mathbb{I} 38'29					
behind sun end	2881 May 22 03:09	2° \mathbb{I} 31'16		superior conj	2882 May 06 03:55	16° \mathfrak{B} 32'18	-0°21'54
evening rise	2881 May 28 21:15	17° \mathbb{I} 08'54		minimum elong	2882 May 06 05:02	16° \mathfrak{B} 38'10	0°21'40
	2881 Jun 04 05:39	0° \mathfrak{G}		asc. node	2882 May 08 06:21	21° \mathfrak{B} 01'30	
evening max el	2881 Jun 22 06:40	26° \mathfrak{G} 15'02	24°01'10		2882 May 12 11:02	0° \mathbb{I}	
	2881 Jun 26 20:03	0° Ω		evening rise	2882 May 13 08:38	1° \mathbb{I} 54'08	
desc. node	2881 Jun 28 02:40	0° Ω 48'24			2882 May 29 03:05	0° \mathfrak{G}	
retrograde	2881 Jul 06 01:11	3° Ω 10'50		evening max el	2882 Jun 03 21:26	6° \mathfrak{G} 42'19	22°24'45
evening set	2881 Jul 10 12:33	2° Ω 26'36		desc. node	2882 Jun 14 23:41	13° \mathfrak{G} 01'33	
	2881 Jul 15 18:23	30° \mathfrak{R} \mathfrak{G}		retrograde	2882 Jun 16 21:58	13° \mathfrak{G} 10'05	
min. Earth dist.	2881 Jul 16 17:13	29° \mathfrak{G} 26'17	0.56341 AU	evening set	2882 Jun 19 22:36	12° \mathfrak{G} 49'51	
inferior conj	2881 Jul 19 03:53	27° \mathfrak{G} 56'06	-4°49'44	min. Earth dist.	2882 Jun 28 04:18	9° \mathfrak{G} 15'52	0.55172 AU
minimum elong	2881 Jul 18 23:17	28° \mathfrak{G} 03'13	4°49'12	inferior conj	2882 Jun 29 05:23	8° \mathfrak{G} 40'21	-3°48'13

minimum elong	2882 Jun 28 21:14	8°☿51'55	3°46'08	min. Earth dist.	2883 Jun 09 16:27	18°♂36'37	0.54888 AU
morning rise	2882 Jul 07 21:55	4°☿49'17		morning rise	2883 Jun 17 19:21	14°♂58'31	
direct	2882 Jul 10 22:00	4°☿28'51		direct	2883 Jun 21 07:20	14°♂32'05	
morning max el	2882 Jul 22 10:20	9°☿50'11	21°10'35	morning max el	2883 Jul 04 07:08	20°♂45'13	22°47'22
asc. node	2882 Aug 04 05:34	27°☿37'21			2883 Jul 12 03:11	0°☿	
	2882 Aug 05 12:35	0°♂		asc. node	2883 Jul 22 02:37	16°☿55'08	
morning set	2882 Aug 11 07:08	11°♂27'26		morning set	2883 Jul 26 17:52	26°☿19'56	
					2883 Jul 28 11:29	0°♂	
superior conj	2882 Aug 18 16:21	26°♂52'12	1°43'45	superior conj	2883 Aug 02 20:29	11°♂30'16	1°36'23
minimum elong	2882 Aug 18 15:30	26°♂47'51	1°43'44	minimum elong	2883 Aug 02 18:38	11°♂20'26	1°36'14
	2882 Aug 20 04:54	0°♂		max. Earth dist.	2883 Aug 05 18:40	17°♂40'14	1.33978 AU
max. Earth dist.	2882 Aug 23 00:03	5°♂38'23	1.35407 AU	evening rise	2883 Aug 10 15:19	27°♂31'51	
evening rise	2882 Aug 27 05:03	13°♂47'45			2883 Aug 11 21:41	0°♂	
	2882 Sep 05 07:39	0°♂		desc. node	2883 Aug 28 20:03	28°♂55'07	
desc. node	2882 Sep 10 23:01	9°♂04'15			2883 Aug 29 13:38	0°♂	
	2882 Sep 26 06:38	0°♂		evening max el	2883 Sep 14 04:12	19°♂14'38	27°13'18
evening max el	2882 Oct 01 16:00	5°♂46'08	26°33'02	retrograde	2883 Sep 27 13:47	26°♂33'06	
retrograde	2882 Oct 14 13:35	12°♂59'49		evening set	2883 Oct 04 12:45	23°♂50'26	
evening set	2882 Oct 21 01:56	10°♂20'06		min. Earth dist.	2883 Oct 08 08:28	20°♂12'30	0.64871 AU
min. Earth dist.	2882 Oct 25 04:02	6°♂06'38	0.66152 AU	inferior conj	2883 Oct 10 13:00	17°♂47'43	-2°28'25
inferior conj	2882 Oct 26 20:21	4°♂05'36	-1°28'40	minimum elong	2883 Oct 10 17:03	17°♂36'31	2°26'55
minimum elong	2882 Oct 26 22:44	3°♂58'24	1°27'40	morning rise	2883 Oct 16 22:20	12°♂16'30	
	2882 Oct 30 14:13	30°♂		asc. node	2883 Oct 18 01:50	11°♂51'29	
asc. node	2882 Oct 31 04:47	29°♂28'31		direct	2883 Oct 19 13:56	11°♂39'28	
morning rise	2882 Nov 01 20:10	28°♂20'47		morning max el	2883 Oct 26 01:54	15°♂07'40	18°02'47
direct	2882 Nov 04 18:56	27°♂31'56			2883 Nov 05 16:21	0°♂	
	2882 Nov 10 04:17	0°♂		morning set	2883 Nov 12 21:16	11°♂57'12	
morning max el	2882 Nov 11 10:36	1°♂10'37	18°32'00		2883 Nov 23 20:49	0°♂	
	2882 Dec 01 03:43	0°♂		desc. node	2883 Nov 24 19:22	1°♂30'48	
morning set	2882 Dec 01 15:52	0°♂48'32					
desc. node	2882 Dec 07 22:19	10°♂47'14		superior conj	2883 Nov 26 20:17	4°♂46'42	-0°13'49
				minimum elong	2883 Nov 26 18:34	4°♂39'52	0°13'35
superior conj	2882 Dec 17 12:25	25°♂53'35	-1°01'47	behind sun begin	2883 Nov 26 12:43	4°♂16'29	
minimum elong	2882 Dec 17 04:50	25°♂23'48	1°00'52	behind sun end	2883 Nov 27 00:26	5°♂03'15	
max. Earth dist.	2882 Dec 18 00:16	26°♂40'03	1.45196 AU	max. Earth dist.	2883 Nov 30 19:04	11°♂02'45	1.44909 AU
	2882 Dec 20 03:14	0°♂			2883 Dec 12 22:55	0°♂	
evening rise	2883 Jan 02 10:50	20°♂59'24		evening rise	2883 Dec 13 04:48	0°♂22'44	
	2883 Jan 08 03:04	0°♂		greatest brilliancy	2883 Dec 27 00:02	21°♂25'13	-0.7m
greatest brilliancy	2883 Jan 11 14:35	5°♂29'21	-0.8m		2884 Jan 01 23:50	0°♂	
evening max el	2883 Jan 24 17:24	23°♂46'03	19°01'32	evening max el	2884 Jan 07 23:11	7°♂16'50	19°52'57
asc. node	2883 Jan 27 04:06	25°♂56'22		asc. node	2884 Jan 14 01:08	11°♂28'40	
retrograde	2883 Jan 31 14:36	27°♂40'01		retrograde	2884 Jan 15 12:11	11°♂40'22	
evening set	2883 Feb 03 22:12	26°♂36'14		evening set	2884 Jan 19 03:32	10°♂22'56	
inferior conj	2883 Feb 09 12:43	20°♂49'53	3°25'57	inferior conj	2884 Jan 24 14:09	4°♂22'26	3°00'47
minimum elong	2883 Feb 09 10:51	20°♂55'48	3°25'41	minimum elong	2884 Jan 24 11:41	4°♂30'40	3°00'12
min. Earth dist.	2883 Feb 11 02:13	18°♂51'41	0.65814 AU	min. Earth dist.	2884 Jan 25 13:26	3°♂04'53	0.66899 AU
morning rise	2883 Feb 14 23:08	14°♂37'39			2884 Jan 28 00:31	30°♂	
direct	2883 Feb 21 10:49	11°♂47'16		morning rise	2884 Jan 29 19:37	28°♂08'58	
desc. node	2883 Mar 05 21:31	18°♂56'49		direct	2884 Feb 04 18:52	25°♂29'03	
morning max el	2883 Mar 06 09:09	19°♂25'50	26°33'26		2884 Feb 13 23:04	0°♂	
	2883 Mar 15 09:32	0°♂		morning max el	2884 Feb 16 18:04	2°♂37'33	25°18'13
	2883 Apr 04 01:15	0°♂		desc. node	2884 Feb 20 18:35	7°♂01'14	
morning set	2883 Apr 11 09:23	13°♂16'32			2884 Mar 08 13:33	0°♂	
max. Earth dist.	2883 Apr 15 13:35	21°♂21'10	1.34697 AU	morning set	2884 Mar 23 23:28	25°♂38'49	
	2883 Apr 19 20:17	0°♂			2884 Mar 26 08:40	0°♂	
superior conj	2883 Apr 20 03:06	0°♂35'04	-0°50'23	max. Earth dist.	2884 Mar 27 15:47	2°♂24'53	1.36438 AU
minimum elong	2883 Apr 20 05:43	0°♂48'32	0°49'53				
asc. node	2883 Apr 25 03:24	11°♂02'16		superior conj	2884 Apr 02 17:20	14°♂07'17	-1°18'00
evening rise	2883 Apr 27 17:41	16°♂27'06		minimum elong	2884 Apr 02 21:16	14°♂26'46	1°17'22
	2883 May 04 14:35	0°♂		evening rise	2884 Apr 10 22:17	0°♂41'40	
evening max el	2883 May 16 20:35	17°♂30'06	20°56'20		2884 Apr 10 14:03	0°♂	
retrograde	2883 May 28 11:15	23°♂10'09		asc. node	2884 Apr 11 00:28	0°♂52'40	
evening set	2883 May 30 14:55	22°♂59'12		evening max el	2884 Apr 28 07:42	28°♂56'23	19°44'17
desc. node	2883 Jun 01 20:43	22°♂26'03			2884 Apr 29 11:31	0°♂	
inferior conj	2883 Jun 08 22:58	19°♂01'25	-2°03'29	retrograde	2884 May 08 04:22	3°♂42'57	
minimum elong	2883 Jun 08 17:14	19°♂09'34	2°01'27	evening set	2884 May 10 04:15	3°♂32'05	


































































































































	2884 May 18 03:47	30° 			2885 Apr 03 03:37	0° 	
inferior conj	2884 May 18 23:11	29°  30'01	-0°03'58	evening max el	2885 Apr 11 05:46	11°  01'36	18°51'50
minimum elong	2884 May 18 23:00	29°  30'18	0°03'54	retrograde	2885 Apr 19 13:14	15°  04'41	
transit middle	2884 May 18 23:00	29°  30'18	0°03'54	evening set	2885 Apr 21 17:46	14°  48'56	
transit begin	2884 May 18 19:10	29°  36'14		inferior conj	2885 Apr 29 17:11	10°  30'33	1°38'08
transit end	2884 May 19 02:50	29°  24'21		minimum elong	2885 Apr 29 20:34	10°  24'27	1°37'03
desc. node	2884 May 18 17:45	29°  38'27		min. Earth dist.	2885 May 02 22:19	8°  12'35	0.57082 AU
min. Earth dist.	2884 May 21 06:13	28°  04'45	0.55578 AU	desc. node	2885 May 05 14:48	6°  30'33	
morning rise	2884 May 27 15:20	24°  58'18		morning rise	2885 May 07 20:14	5°  24'06	
direct	2884 May 31 23:41	24°  16'18		direct	2885 May 13 05:07	4°  14'41	
	2884 Jun 13 13:34	0° 		morning max el	2885 May 27 12:52	11°  42'06	26°03'29
morning max el	2884 Jun 14 21:54	1°  13'37	24°29'54		2885 Jun 10 16:34	0° 	
	2884 Jul 04 16:18	0° 		morning set	2885 Jun 24 16:57	26°  11'08	
asc. node	2884 Jul 07 23:42	6°  34'24		asc. node	2885 Jun 24 20:46	26°  11'28	
morning set	2884 Jul 10 05:41	11°  15'19			2885 Jun 26 12:25	0° 	
superior conj	2884 Jul 17 05:11	26°  21'00	1°23'37	superior conj	2885 Jul 01 16:19	11°  17'12	1°06'20
minimum elong	2884 Jul 17 02:51	26°  20'21	1°23'19	minimum elong	2885 Jul 01 14:01	11°  04'31	1°05'56
	2884 Jul 18 21:37	0° 		max. Earth dist.	2885 Jul 02 07:45	12°  04'20	1.32338 AU
max. Earth dist.	2884 Jul 18 22:08	0°  02'45	1.32958 AU	evening rise	2885 Jul 08 15:56	26°  02'40	
evening rise	2884 Jul 24 12:01	11°  46'08			2885 Jul 10 10:33	0° 	
	2884 Aug 03 03:07	0° 			2885 Jul 27 15:08	0° 	
desc. node	2884 Aug 14 17:03	18°  12'47		desc. node	2885 Aug 01 14:04	6°  14'40	
	2884 Aug 24 06:36	0° 		evening max el	2885 Aug 08 21:22	14°  11'10	27°06'59
evening max el	2884 Aug 26 14:54	2°  20'54	27°26'13	retrograde	2885 Aug 22 18:11	22°  10'41	
retrograde	2884 Sep 09 07:36	9°  37'32		evening set	2885 Aug 29 20:16	19°  14'54	
evening set	2884 Sep 16 12:12	7°  02'16		min. Earth dist.	2885 Sep 02 11:39	17°  10'02	0.61345 AU
min. Earth dist.	2884 Sep 20 03:25	3°  56'21	0.63252 AU	inferior conj	2885 Sep 05 14:42	14°  11'50	-4°17'27
inferior conj	2884 Sep 22 20:11	1°  15'45	-3°26'18	minimum elong	2885 Sep 05 20:12	14°  11'09	4°16'14
minimum elong	2884 Sep 23 01:30	1°  02'30	3°24'40	morning rise	2885 Sep 12 21:49	9°  12'28	
	2884 Sep 24 03:06	30° 		direct	2885 Sep 15 07:16	9°  12'04	
morning rise	2884 Sep 29 16:09	26°  10'27		asc. node	2885 Sep 20 19:58	11°  15'19	
direct	2884 Oct 02 03:15	25°  13'37		morning max el	2885 Sep 22 08:39	12°  15'59	17°57'58
asc. node	2884 Oct 03 22:55	25°  14'48			2885 Oct 04 01:17	0° 	
morning max el	2884 Oct 08 18:15	28°  15'26	17°51'05	morning set	2885 Oct 08 04:33	7°  13'32	
	2884 Oct 09 17:43	0° 					
morning set	2884 Oct 25 03:37	24°  17'58		superior conj	2885 Oct 18 11:41	26°  16'37	1°05'56
	2884 Oct 28 10:00	0° 		minimum elong	2885 Oct 18 16:04	26°  15'48	1°05'23
					2885 Oct 20 17:31	0° 	
superior conj	2884 Nov 06 02:26	14°  14'39	0°31'07	max. Earth dist.	2885 Oct 26 00:53	8°  15'56	1.42367 AU
minimum elong	2884 Nov 06 05:30	14°  15'22	0°30'41	desc. node	2885 Oct 28 13:22	13°  14'42	
desc. node	2884 Nov 10 16:22	22°  17'35		evening rise	2885 Nov 01 06:00	19°  14'00	
max. Earth dist.	2884 Nov 12 12:07	25°  13'58	1.43927 AU		2885 Nov 08 08:20	0° 	
	2884 Nov 15 11:54	0° 			2885 Nov 29 20:27	0° 	
evening rise	2884 Nov 21 13:36	9°  29'01		evening max el	2885 Dec 03 18:29	4°  21'02	22°12'50
	2884 Dec 05 04:42	0° 		retrograde	2885 Dec 13 06:22	9°  25'59	
evening max el	2884 Dec 20 23:35	20°  34'22	20°57'59	evening set	2885 Dec 17 18:30	8°  21'15	
retrograde	2884 Dec 29 10:00	25°  34'58		asc. node	2885 Dec 17 19:13	8°  20'47	
asc. node	2884 Dec 30 22:11	25°  35'24		inferior conj	2885 Dec 23 02:56	1°  51'16	1°44'11
evening set	2885 Jan 02 10:52	24°  31'28		minimum elong	2885 Dec 23 00:49	1°  58'35	1°43'24
inferior conj	2885 Jan 07 19:34	18°  03'35	2°26'15	min. Earth dist.	2885 Dec 23 01:53	1°  54'54	0.67889 AU
minimum elong	2885 Jan 07 17:03	18°  12'17	2°25'28		2885 Dec 24 11:22	30° 	
min. Earth dist.	2885 Jan 08 06:03	17°  27'32	0.67582 AU	morning rise	2885 Dec 28 07:01	25°  40'31	
morning rise	2885 Jan 12 23:02	11°  30'40		direct	2886 Jan 02 00:42	23°  41'31	
direct	2885 Jan 18 07:45	9°  29'16		morning max el	2886 Jan 11 13:20	29°  41'18	22°23'14
morning max el	2885 Jan 29 02:27	15°  34'42	23°51'32		2886 Jan 12 05:32	0° 	
desc. node	2885 Feb 06 15:37	25°  35'32		desc. node	2886 Jan 24 12:38	15°  28'28	
	2885 Feb 09 16:47	0° 			2886 Feb 03 11:26	0° 	
	2885 Mar 01 13:14	0° 		morning set	2886 Feb 14 03:31	16°  45'04	
morning set	2885 Mar 05 15:24	6°  52'44		max. Earth dist.	2886 Feb 19 08:08	25°  42'05	1.40672 AU
max. Earth dist.	2885 Mar 09 11:23	13° 33'43	1.38510 AU		2886 Feb 22 01:11	0°	
superior conj	2885 Mar 16 18:53	26° 58'25	-1°42'20	superior conj	2886 Feb 27 03:09	8° 57'06	-1°59'56
minimum elong	2885 Mar 16 23:22	27° 19'39	1°41'51	minimum elong	2886 Feb 27 06:31	9° 12'12	1°59'46
	2885 Mar 18 09:02	0°		evening rise	2886 Mar 09 06:50	27° 43'42	
evening rise	2885 Mar 25 19:44	14° 09'29			2886 Mar 10 11:53	0°	
asc. node	2885 Mar 28 21:30	20° 09'27		asc. node	2886 Mar 15 18:31	9° 39'58	

evening max el	2886 Mar 25 11:53	23° Υ 39'10	18°19'39	evening max el	2887 Mar 08 22:49	6° Υ 40'28	18°07'20
retrograde	2886 Apr 01 17:22	27° Υ 14'49		retrograde	2887 Mar 15 13:48	10° Υ 04'24	
evening set	2886 Apr 04 04:04	26° Υ 51'08		evening set	2887 Mar 18 06:19	9° Υ 30'50	
inferior conj	2886 Apr 11 08:40	22° Υ 12'24	2°47'59	inferior conj	2887 Mar 24 19:37	4° Υ 31'39	3°26'32
minimum elong	2886 Apr 11 12:20	22° Υ 04'40	2°47'10	minimum elong	2887 Mar 24 21:44	4° Υ 26'29	3°26'17
min. Earth dist.	2886 Apr 14 19:06	19° Υ 19'47	0.59087 AU	min. Earth dist.	2887 Mar 27 23:06	1° Υ 28'58	0.61246 AU
morning rise	2886 Apr 18 17:53	16° Υ 36'49			2887 Mar 29 15:32	30° \Re H	
desc. node	2886 Apr 22 11:50	15° Υ 08'43		morning rise	2887 Mar 31 11:22	28° H 37'18	
direct	2886 Apr 24 23:56	14° Υ 51'50		direct	2887 Apr 07 06:14	26° H 18'16	
morning max el	2886 May 09 08:57	22° Υ 37'48	27°12'43	desc. node	2887 Apr 09 08:51	26° H 30'53	
	2886 May 15 21:47	0° B			2887 Apr 16 14:17	0° Υ	
	2886 Jun 03 15:57	0° II		morning max el	2887 Apr 21 11:23	4° Υ 14'10	27°47'24
morning set	2886 Jun 09 01:57	10° II 52'55			2887 May 10 14:20	0° B	
asc. node	2886 Jun 11 17:47	16° II 31'49		morning set	2887 May 24 06:53	25° B 23'21	
					2887 May 26 12:01	0° II	
superior conj	2886 Jun 16 04:07	26° II 12'45	0°45'14	asc. node	2887 May 29 14:48	6° II 40'16	
minimum elong	2886 Jun 16 02:17	26° II 02'39	0°44'51	max. Earth dist.	2887 May 30 06:28	8° II 05'16	1.32279 AU
max. Earth dist.	2886 Jun 15 19:48	25° II 26'58	1.32110 AU				
	2886 Jun 17 21:22	0° B		superior conj	2887 May 31 14:52	11° II 02'07	0°20'59
evening rise	2886 Jun 23 00:32	11° B 07'00		minimum elong	2887 May 31 13:55	10° II 56'55	0°20'46
	2886 Jul 02 16:13	0° Ω		evening rise	2887 Jun 07 11:43	25° II 58'25	
desc. node	2886 Jul 19 11:06	24° Ω 07'54			2887 Jun 09 09:44	0° B	
evening max el	2886 Jul 21 20:59	26° Ω 34'29	26°14'41		2887 Jun 26 22:26	0° Ω	
	2886 Jul 25 23:01	0° np		evening max el	2887 Jul 03 13:35	7° Ω 32'31	24°54'55
retrograde	2886 Aug 04 20:30	3° np 44'57		desc. node	2887 Jul 06 08:07	9° Ω 58'37	
evening set	2886 Aug 11 08:09	2° np 01'42		retrograde	2887 Jul 17 12:40	14° Ω 37'06	
	2886 Aug 14 15:00	30° \Re Ω		evening set	2887 Jul 22 20:15	13° Ω 32'41	
min. Earth dist.	2886 Aug 15 09:49	29° Ω 26'15	0.59280 AU	min. Earth dist.	2887 Jul 28 01:03	10° Ω 45'42	0.57307 AU
inferior conj	2886 Aug 18 16:56	26° Ω 55'37	-4°53'46	inferior conj	2887 Jul 30 23:50	8° Ω 48'29	-5°02'49
minimum elong	2886 Aug 18 20:25	26° Ω 48'56	4°53'23	minimum elong	2887 Jul 30 22:35	8° Ω 50'34	5°02'47
morning rise	2886 Aug 26 10:51	22° Ω 24'49		morning rise	2887 Aug 08 03:30	4° Ω 39'34	
direct	2886 Aug 28 21:26	22° Ω 04'14		direct	2887 Aug 10 17:38	4° Ω 20'21	
morning max el	2886 Sep 05 17:53	25° Ω 51'11	18°24'42	morning max el	2887 Aug 19 18:44	8° Ω 34'32	19°12'26
asc. node	2886 Sep 07 17:00	27° Ω 56'44		asc. node	2887 Aug 25 14:02	15° Ω 37'53	
	2886 Sep 09 08:19	0° np			2887 Sep 02 20:15	0° np	
morning set	2886 Sep 21 18:39	21° np 23'45		morning set	2887 Sep 05 17:55	5° np 41'54	
	2886 Sep 26 06:28	0° $\underline{\Omega}$					
superior conj	2886 Sep 30 20:23	8° $\underline{\Omega}$ 35'31	1°29'04	superior conj	2887 Sep 13 22:55	21° np 57'14	1°41'33
minimum elong	2886 Sep 30 23:49	8° $\underline{\Omega}$ 51'20	1°28'45	minimum elong	2887 Sep 14 00:36	22° np 05'20	1°41'28
max. Earth dist.	2886 Oct 08 08:01	21° $\underline{\Omega}$ 57'04	1.40425 AU		2887 Sep 18 04:27	0° $\underline{\Omega}$	
evening rise	2886 Oct 12 18:28	29° $\underline{\Omega}$ 26'47		max. Earth dist.	2887 Sep 20 11:50	4° $\underline{\Omega}$ 14'47	1.38357 AU
	2886 Oct 13 02:30	0° ml		evening rise	2887 Sep 24 06:48	10° $\underline{\Omega}$ 59'51	
desc. node	2886 Oct 15 10:23	3° ml 48'19		desc. node	2887 Oct 02 07:25	24° $\underline{\Omega}$ 24'30	
	2886 Nov 01 20:26	0° A			2887 Oct 05 20:50	0° ml	
evening max el	2886 Nov 16 09:03	17° A 55'57	23°32'32	evening max el	2887 Oct 29 21:31	1° A 34'58	24°50'46
retrograde	2886 Nov 26 23:52	24° A 12'35		retrograde	2887 Nov 10 13:26	8° A 21'51	
evening set	2886 Dec 02 00:48	22° A 07'15		evening set	2887 Nov 16 04:11	6° A 00'49	
asc. node	2886 Dec 04 16:14	19° A 21'31		min. Earth dist.	2887 Nov 20 17:49	0° A 50'51	0.67454 AU
inferior conj	2886 Dec 07 10:24	15° A 43'02	0°55'53		2887 Nov 21 09:12	30° \Re ml	
minimum elong	2886 Dec 07 09:07	15° A 47'23	0°55'22	inferior conj	2887 Nov 21 16:14	29° ml 36'45	0°02'33
min. Earth dist.	2886 Dec 06 22:35	16° A 23'27	0.67840 AU	minimum elong	2887 Nov 21 16:10	29° ml 36'59	0°02'31
morning rise	2886 Dec 12 17:24	9° A 36'15		transit middle	2887 Nov 21 16:10	29° ml 36'59	0°02'31
direct	2886 Dec 16 20:50	8° A 00'07		transit begin	2887 Nov 21 13:26	29° ml 46'00	
morning max el	2886 Dec 25 06:05	12° A 51'43	21°01'21	transit end	2887 Nov 21 18:53	29° ml 27'58	
	2887 Jan 07 15:45	0° B		asc. node	2887 Nov 21 13:16	29° ml 46'34	
desc. node	2887 Jan 11 09:39	5° B 26'36		morning rise	2887 Nov 27 04:16	23° ml 36'13	
morning set	2887 Jan 24 12:00	25° B 21'15		direct	2887 Nov 30 19:00	22° ml 20'58	
	2887 Jan 27 10:43	0° \approx		morning max el	2887 Dec 08 06:32	26° ml 35'55	19°51'22
max. Earth dist.	2887 Feb 01 11:05	8° \approx 04'09	1.42633 AU		2887 Dec 11 07:50	0° A	
				desc. node	2887 Dec 29 06:40	25° A 43'45	
superior conj	2887 Feb 08 12:59	19° \approx 51'25	-2°06'10		2888 Jan 01 01:35	0° B	
minimum elong	2887 Feb 08 12:33	19° \approx 49'36	2°06'10	morning set	2888 Jan 03 07:50	3° B 28'55	
	2887 Feb 14 09:38	0° H		max. Earth dist.	2888 Jan 14 21:25	21° B 35'37	1.44148 AU
evening rise	2887 Feb 20 03:40	10° H 14'23					
asc. node	2887 Mar 02 15:33	28° H 24'14		superior conj	2888 Jan 19 20:46	29° B 34'54	-1°55'51
	2887 Mar 03 16:32	0° Υ		minimum elong	2888 Jan 19 14:38	29° B 10'03	1°55'28

	2888 Jan 20 02:57	0°♊			2889 Jan 11 19:25	0°♊	
evening rise	2888 Feb 02 05:51	21°♊53'01		evening rise	2889 Jan 13 09:46	2°♊35'28	
	2888 Feb 07 00:01	0°♋			2889 Jan 31 01:26	0°♋	
asc. node	2888 Feb 17 12:34	16°♋30'23		evening max el	2889 Feb 02 23:11	3°♋21'55	18°39'16
evening max el	2888 Feb 20 11:28	19°♋56'35	18°14'10	asc. node	2889 Feb 03 09:37	3°♋47'51	
retrograde	2888 Feb 26 22:05	23°♋22'40		retrograde	2889 Feb 09 14:09	7°♋02'21	
evening set	2888 Feb 29 20:07	22°♋38'01		evening set	2889 Feb 12 18:05	6°♋05'40	
inferior conj	2888 Mar 06 21:59	17°♋19'13	3°40'12	inferior conj	2889 Feb 18 11:54	0°♋28'45	3°35'17
minimum elong	2888 Mar 06 22:13	17°♋18'34	3°40'12	minimum elong	2889 Feb 18 10:38	0°♋32'35	3°35'10
min. Earth dist.	2888 Mar 09 11:55	14°♋29'53	0.63283 AU		2889 Feb 18 21:24	30°♌	
morning rise	2888 Mar 12 23:21	11°♋14'31		min. Earth dist.	2889 Feb 20 10:11	28°♌09'19	0.65008 AU
direct	2888 Mar 19 21:32	8°♋32'04		morning rise	2889 Feb 24 02:44	24°♌18'35	
desc. node	2888 Mar 26 05:53	10°♋27'05		direct	2889 Mar 02 19:59	21°♌27'17	
morning max el	2888 Apr 02 18:34	16°♋29'11	27°44'36	desc. node	2889 Mar 13 02:56	26°♌24'33	
	2888 Apr 13 22:32	0°♍		morning max el	2889 Mar 16 04:08	29°♌15'23	27°07'31
	2888 May 02 07:34	0°♎			2889 Mar 16 21:36	0°♎	
morning set	2888 May 07 05:22	9°♎30'42			2889 Apr 07 19:29	0°♍	
max. Earth dist.	2888 May 12 11:39	20°♎22'13	1.32863 AU	morning set	2889 Apr 20 18:33	23°♍06'21	
					2889 Apr 24 06:20	0°♎	
superior conj	2888 May 14 22:44	25°♎38'02	-0°05'46	max. Earth dist.	2889 Apr 25 07:50	2°♎09'08	1.33899 AU
minimum elong	2888 May 14 23:01	25°♎39'34	0°05'42				
behind sun begin	2888 May 14 18:04	25°♎12'52		superior conj	2889 Apr 29 01:46	9°♎54'40	-0°33'58
behind sun end	2888 May 15 03:59	26°♎06'17		minimum elong	2889 Apr 29 03:31	10°♎03'49	0°33'35
asc. node	2888 May 15 11:51	26°♎48'43		asc. node	2889 May 02 08:55	16°♎53'20	
	2888 May 16 23:13	0°♏		evening rise	2889 May 06 10:09	25°♎27'37	
evening rise	2888 May 21 23:31	10°♏47'12			2889 May 08 14:50	0°♏	
	2888 May 31 20:28	0°♐		evening max el	2889 May 26 20:42	28°♏34'47	21°45'33
evening max el	2888 Jun 14 03:03	18°♐02'24	23°20'06		2889 May 28 09:55	0°♐	
desc. node	2888 Jun 22 05:08	23°♐40'50		retrograde	2889 Jun 08 08:07	4°♐43'24	
retrograde	2888 Jun 27 16:10	24°♐48'34		desc. node	2889 Jun 09 02:10	4°♐42'06	
evening set	2888 Jul 01 11:40	24°♐16'45		evening set	2889 Jun 10 21:51	4°♐28'32	
min. Earth dist.	2888 Jul 08 12:53	21°♐03'30	0.55752 AU	inferior conj	2889 Jun 20 07:16	0°♐26'09	-3°07'51
inferior conj	2888 Jul 10 10:49	19°♐55'48	-4°29'52	minimum elong	2889 Jun 19 23:23	0°♐37'09	3°05'27
minimum elong	2888 Jul 10 04:07	20°♐05'42	4°28'40	min. Earth dist.	2889 Jun 20 00:01	0°♐36'16	0.54938 AU
morning rise	2888 Jul 18 23:02	16°♐01'48			2889 Jun 21 02:01	30°♑♏	
direct	2888 Jul 21 18:54	15°♐42'20		morning rise	2889 Jun 29 02:09	26°♏32'39	
morning max el	2888 Aug 01 08:34	20°♐36'23	20°21'38	direct	2889 Jul 02 06:44	26°♏10'18	
	2888 Aug 08 22:34	0°♑			2889 Jul 12 05:18	0°♐	
asc. node	2888 Aug 11 11:04	4°♑04'52		morning max el	2889 Jul 14 10:49	1°♐53'23	21°50'13
morning set	2888 Aug 19 23:22	20°♑18'16		asc. node	2889 Jul 29 08:08	23°♐06'45	
	2888 Aug 24 16:24	0°♒			2889 Aug 01 20:59	0°♑	
				morning set	2889 Aug 04 08:45	5°♑06'36	
superior conj	2888 Aug 27 14:19	5°♒57'03	1°45'06				
minimum elong	2888 Aug 27 14:17	5°♒56'52	1°45'06	superior conj	2889 Aug 11 14:40	20°♑23'44	1°41'20
max. Earth dist.	2888 Sep 01 18:01	16°♒08'40	1.36408 AU	minimum elong	2889 Aug 11 13:20	20°♑16'45	1°41'17
evening rise	2888 Sep 05 16:28	23°♒32'57		max. Earth dist.	2889 Aug 15 07:45	28°♑03'46	1.34757 AU
	2888 Sep 09 06:38	0°♓			2889 Aug 16 06:46	0°♒	
desc. node	2888 Sep 18 04:27	14°♓48'22		evening rise	2889 Aug 19 19:01	6°♒54'22	
	2888 Sep 28 13:10	0°♔			2889 Sep 01 22:11	0°♓	
evening max el	2888 Oct 11 09:48	15°♔16'28	26°00'12	desc. node	2889 Sep 05 01:29	4°♓53'35	
retrograde	2888 Oct 23 22:08	22°♔22'53		evening max el	2889 Sep 23 22:20	28°♓52'51	26°53'08
evening set	2888 Oct 30 02:54	19°♔48'52			2889 Sep 25 03:09	0°♔	
min. Earth dist.	2888 Nov 03 09:10	15°♔14'19	0.66727 AU	retrograde	2889 Oct 07 01:23	6°♔08'37	
inferior conj	2888 Nov 04 18:38	13°♔29'39	-0°54'35	evening set	2889 Oct 13 18:46	3°♔26'44	
minimum elong	2888 Nov 04 20:04	13°♔25'08	0°53'59		2889 Oct 17 07:00	30°♕♓	
asc. node	2888 Nov 07 10:18	10°♔20'19		min. Earth dist.	2889 Oct 17 18:08	29°♕28'35	0.65655 AU
morning rise	2888 Nov 10 13:38	7°♔38'04		inferior conj	2889 Oct 19 15:30	27°♕16'59	-1°54'01
direct	2888 Nov 13 17:39	6°♔40'32		minimum elong	2889 Oct 19 18:37	27°♕07'56	1°52'46
morning max el	2888 Nov 20 14:25	10°♔29'20	18°56'19	asc. node	2889 Oct 25 07:22	21°♕53'50	
	2888 Dec 04 18:09	0°♖		morning rise	2889 Oct 25 19:12	21°♕37'29	
morning set	2888 Dec 12 16:39	12°♖23'26		direct	2889 Oct 28 14:43	20°♕53'57	
desc. node	2888 Dec 15 03:43	16°♖14'47		morning max el	2889 Nov 04 03:48	24°♕26'47	18°17'28
	2888 Dec 23 22:24	0°♗			2889 Nov 08 17:46	0°♔	
max. Earth dist.	2888 Dec 27 13:57	5°♗43'44	1.45026 AU	morning set	2889 Nov 23 05:22	22°♔43'10	
					2889 Nov 27 17:18	0°♖	
superior conj	2888 Dec 29 06:00	8°♗21'21	-1°26'13	desc. node	2889 Dec 02 00:44	6°♖54'42	
minimum elong	2888 Dec 28 20:58	7°♗45'45	1°25'17				

superior conj	2889 Dec 08 08:01	16°  54'05	-0°41'45	behind sun end	2890 Nov 18 10:15	26°  53'33	
minimum elong	2889 Dec 08 02:41	16°  33'03	0°41'02	desc. node	2890 Nov 18 21:47	27°  40'09	
max. Earth dist.	2889 Dec 10 09:27	20°  08'29	1.45169 AU		2890 Nov 20 08:33	0° 	
	2889 Dec 16 16:29	0° 		max. Earth dist.	2890 Nov 23 04:02	4°  29'07	1.44576 AU
evening rise	2889 Dec 24 14:43	12°  23'31		evening rise	2890 Dec 04 02:59	21°  34'59	
	2890 Jan 04 22:28	0° 			2890 Dec 09 15:02	0° 	
greatest brilliancy	2890 Jan 04 22:25	29°  59'47	-0.7m		2890 Dec 31 02:49	0° 	
evening max el	2890 Jan 17 07:36	16°  51'03	19°21'31	evening max el	2890 Dec 31 11:04	0°  21'28	20°19'02
asc. node	2890 Jan 21 06:40	20°  02'35		retrograde	2891 Jan 08 08:37	5°  00'04	
retrograde	2890 Jan 24 10:34	20°  56'23		asc. node	2891 Jan 08 03:42	4°  59'50	
evening set	2890 Jan 27 21:23	19°  46'44		evening set	2891 Jan 12 03:47	3°  36'19	
inferior conj	2890 Feb 02 09:57	13°  53'51	3°16'31		2891 Jan 15 16:01	30° 	
minimum elong	2890 Feb 02 07:45	14°  00'58	3°16'06	inferior conj	2891 Jan 17 13:21	27°  30'17	2°47'07
min. Earth dist.	2890 Feb 03 17:06	12°  12'58	0.66331 AU	minimum elong	2891 Jan 17 10:48	27°  38'57	2°46'26
morning rise	2890 Feb 07 17:53	7°  41'00		min. Earth dist.	2891 Jan 18 06:56	26°  30'41	0.67239 AU
direct	2890 Feb 14 00:36	4°  54'10		morning rise	2891 Jan 22 17:37	21°  16'42	
morning max el	2890 Feb 26 13:48	12°  21'02	26°03'30	direct	2891 Jan 28 10:40	18°  34'10	
desc. node	2890 Feb 27 23:58	13°  49'49		morning max el	2891 Feb 08 22:30	25°  35'57	24°42'05
	2890 Mar 12 18:30	0° 			2891 Feb 12 23:02	0° 	
	2890 Mar 31 11:34	0° 		desc. node	2891 Feb 14 21:00	2°  17'43	
morning set	2890 Apr 03 18:27	5°  58'54			2891 Mar 06 07:20	0° 	
max. Earth dist.	2890 Apr 07 16:41	13°  52'19	1.35391 AU	morning set	2891 Mar 16 23:53	17°  53'55	
				max. Earth dist.	2891 Mar 20 15:21	24°  26'58	1.37289 AU
					2891 Mar 23 15:04	0° 	
superior conj	2890 Apr 12 21:29	23°  54'46	-1°02'20				
minimum elong	2890 Apr 13 00:43	24°  01'07	1°01'45				
	2890 Apr 15 22:44	0° 		superior conj	2891 Mar 27 06:46	7°  00'03	-1°28'54
asc. node	2890 Apr 19 05:59	6°  49'56		minimum elong	2891 Mar 27 11:05	7°  21'01	1°28'19
evening rise	2890 Apr 20 17:35	9°  53'15		evening rise	2891 Apr 04 19:29	23°  57'11	
	2890 May 01 12:41	0° 		asc. node	2891 Apr 06 03:02	26°  33'51	
evening max el	2890 May 09 00:40	9°  36'45	20°23'20		2891 Apr 07 21:06	0° 	
retrograde	2890 May 19 21:32	14°  54'05		evening max el	2891 Apr 21 16:36	21°  19'20	19°19'29
evening set	2890 May 21 22:03	14°  43'52		retrograde	2891 Apr 30 20:40	25°  46'07	
desc. node	2890 May 26 23:11	13°  41'00		evening set	2891 May 02 21:45	25°  33'48	
inferior conj	2890 May 31 01:47	10°  45'46	-1°12'24	inferior conj	2891 May 11 08:38	21°  25'41	0°42'52
minimum elong	2890 May 30 22:23	10°  50'46	1°11'08	minimum elong	2891 May 11 10:23	21°  22'47	0°42'14
min. Earth dist.	2890 Jun 01 12:26	9°  55'15	0.55063 AU	desc. node	2891 May 13 20:13	19°  47'29	
morning rise	2890 Jun 08 21:35	6°  32'38		min. Earth dist.	2891 May 14 03:12	19°  36'16	0.56123 AU
direct	2890 Jun 12 17:12	6°  01'11		morning rise	2891 May 19 20:03	16°  38'43	
morning max el	2890 Jun 26 04:20	12°  33'59	23°31'16	direct	2891 May 24 14:28	15°  46'36	
	2890 Jul 09 09:29	0° 		morning max el	2891 Jun 07 18:37	22°  59'11	25°11'57
asc. node	2890 Jul 16 05:13	12°  34'36			2891 Jun 14 01:03	0° 	
morning set	2890 Jul 19 20:11	20°  01'22			2891 Jul 01 23:00	0° 	
	2890 Jul 24 11:54	0° 		asc. node	2891 Jul 03 02:15	2°  02'31	
				morning set	2891 Jul 04 07:56	4°  05'06	
superior conj	2890 Jul 26 21:02	5°  08'18	1°31'35				
minimum elong	2890 Jul 26 18:56	4°  56'57	1°31'22	superior conj	2891 Jul 11 07:00	20°  02'02	1°16'49
max. Earth dist.	2890 Jul 29 06:32	10°  15'15	1.33489 AU	minimum elong	2891 Jul 11 04:37	19°  04'02	1°16'27
evening rise	2890 Aug 03 10:09	20°  52'35		max. Earth dist.	2891 Jul 12 12:47	22°  04'33	1.32634 AU
	2890 Aug 08 03:22	0° 			2891 Jul 15 21:43	0° 	
desc. node	2890 Aug 22 22:30	24°  43'10		evening rise	2891 Jul 18 10:12	5°  16'04	
	2890 Aug 26 20:34	0° 			2891 Jul 31 18:23	0° 	
evening max el	2890 Sep 06 10:03	12°  13'25	27°22'24	desc. node	2891 Aug 09 19:32	13°  43'56	
retrograde	2890 Sep 19 22:49	19°  31'31		evening max el	2891 Aug 19 19:01	25°  04'54	27°22'07
evening set	2890 Sep 27 01:12	16°  50'15			2891 Aug 26 02:21	0° 	
min. Earth dist.	2890 Sep 30 18:34	13°  27'00	0.64229 AU	retrograde	2891 Sep 02 13:57	2°  21'02	
inferior conj	2890 Oct 03 04:30	10°  54'08	-2°53'25	evening set	2891 Sep 09 18:40	29°  52'18	
minimum elong	2890 Oct 03 09:10	10°  41'46	2°51'46		2891 Sep 09 14:05	30° 	
morning rise	2890 Oct 09 18:17	5°  29'57		min. Earth dist.	2891 Sep 13 08:56	26°  57'52	0.62469 AU
direct	2890 Oct 12 07:40	4°  56'48		inferior conj	2891 Sep 16 06:40	24°  41'31	-3°49'13
asc. node	2890 Oct 12 04:24	4°  56'54		minimum elong	2891 Sep 16 12:15	24°  00'18	3°47'41
morning max el	2890 Oct 18 19:59	8°  22'39	17°55'38	morning rise	2891 Sep 23 07:24	19°  47'50	
	2890 Nov 02 07:55	0° 		direct	2891 Sep 25 17:20	18°  41'42	
morning set	2890 Nov 04 22:10	4°  25'00		asc. node	2891 Sep 29 01:26	19°  33'09	
				morning max el	2891 Oct 02 11:57	22°  51'41	17°51'41
superior conj	2890 Nov 18 00:03	26°  12'19	0°06'12		2891 Oct 08 13:10	0° 	
minimum elong	2890 Nov 18 00:46	26°  15'12	0°06'06	morning set	2891 Oct 18 13:09	17°  10'21	
behind sun begin	2890 Nov 17 15:17	25°  36'47			2891 Oct 25 19:08	0° 	

































































































































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minimum elong	2891 Oct 29 21:53	7°♄04'00	0°46'44		2892 Oct 17 02:19	0°♄	
desc. node	2891 Nov 05 18:49	18°♄27'37		max. Earth dist.	2892 Oct 18 04:58	1°♄52'31	1.41575 AU
max. Earth dist.	2891 Nov 05 18:56	18°♄28'07	1.43324 AU	desc. node	2892 Oct 22 15:50	9°♄13'38	
	2891 Nov 13 01:01	0°♄		evening rise	2892 Oct 23 12:51	10°♄38'37	
evening rise	2891 Nov 13 12:57	0°♄46'29			2892 Nov 05 02:20	0°♄	
	2891 Dec 03 06:02	0°♄		evening max el	2892 Nov 26 01:55	27°♄27'00	22°46'35
evening max el	2891 Dec 14 08:59	13°♄53'08	21°28'52		2892 Nov 28 20:08	0°♄	
retrograde	2891 Dec 23 06:07	19°♄09'52		retrograde	2892 Dec 06 01:20	3°♄22'19	
asc. node	2891 Dec 26 00:42	18°♄27'38		evening set	2892 Dec 10 18:40	1°♄26'46	
evening set	2891 Dec 27 11:27	17°♄30'46		asc. node	2892 Dec 11 21:43	0°♄24'16	
inferior conj	2892 Jan 01 19:51	11°♄14'52	2°09'15		2892 Dec 12 07:00	30°♄	
minimum elong	2892 Jan 01 17:27	11°♄23'13	2°08'27	inferior conj	2892 Dec 16 03:28	25°♄04'40	1°24'25
min. Earth dist.	2892 Jan 02 01:21	10°♄55'50	0.67756 AU	minimum elong	2892 Dec 16 01:40	25°♄10'55	1°23'43
morning rise	2892 Jan 06 23:16	5°♄02'24		min. Earth dist.	2892 Dec 15 21:52	25°♄24'02	0.67913 AU
direct	2892 Jan 12 01:31	2°♄50'10		morning rise	2892 Dec 21 08:31	18°♄55'14	
morning max el	2892 Jan 22 07:32	8°♄55'48	23°13'31	direct	2892 Dec 25 20:05	17°♄05'48	
desc. node	2892 Feb 01 18:02	21°♄30'15		morning max el	2893 Jan 03 20:21	22°♄22'32	21°47'08
	2892 Feb 07 20:10	0°♄			2893 Jan 10 09:41	0°♄	
morning set	2892 Feb 26 04:36	28°♄34'53		desc. node	2893 Jan 18 15:02	11°♄14'24	
	2892 Feb 27 00:51	0°♄			2893 Jan 31 04:20	0°♄	
max. Earth dist.	2892 Mar 01 10:05	5°♄47'35	1.39430 AU	morning set	2893 Feb 05 04:10	7°♄51'36	
				max. Earth dist.	2893 Feb 11 08:52	17°♄57'28	1.41552 AU
					2893 Feb 18 10:27	0°♄	
superior conj	2892 Mar 09 01:36	19°♄30'35	-1°50'53				
minimum elong	2892 Mar 09 05:53	19°♄50'24	1°50'32				
	2892 Mar 14 15:03	0°♄		superior conj	2893 Feb 19 00:58	1°♄03'27	-2°04'18
evening rise	2892 Mar 18 12:59	7°♄31'51		minimum elong	2893 Feb 19 03:04	1°♄12'41	2°04'14
asc. node	2892 Mar 23 00:03	16°♄00'01		evening rise	2893 Mar 01 18:29	20°♄28'03	
	2892 Mar 31 13:52	0°♄			2893 Mar 06 23:49	0°♄	
evening max el	2892 Apr 03 18:35	3°♄40'00	18°35'45	asc. node	2893 Mar 09 21:04	5°♄01'28	
retrograde	2892 Apr 11 13:33	7°♄29'10		evening max el	2893 Mar 18 03:14	16°♄28'56	18°12'03
evening set	2892 Apr 13 20:40	7°♄10'24		retrograde	2893 Mar 25 00:57	19°♄57'20	
inferior conj	2892 Apr 21 11:49	2°♄43'59	2°11'50	evening set	2893 Mar 27 14:21	19°♄29'28	
minimum elong	2892 Apr 21 15:39	2°♄36'35	2°10'46	inferior conj	2893 Apr 03 11:58	14°♄42'00	3°07'48
min. Earth dist.	2892 Apr 24 21:17	0°♄08'11	0.57892 AU	minimum elong	2893 Apr 03 15:06	14°♄34'57	3°07'14
	2892 Apr 25 01:47	30°♄		min. Earth dist.	2893 Apr 06 20:38	11°♄42'08	0.60014 AU
morning rise	2892 Apr 29 07:29	27°♄23'51		morning rise	2893 Apr 10 13:33	8°♄57'34	
desc. node	2892 Apr 29 17:13	27°♄12'36		desc. node	2893 Apr 16 14:15	6°♄57'55	
direct	2892 May 05 02:19	25°♄59'26		direct	2893 Apr 17 02:28	6°♄57'12	
	2892 May 15 06:44	0°♄		morning max el	2893 May 01 09:52	14°♄47'38	27°31'57
morning max el	2892 May 19 11:20	3°♄36'42	26°36'36		2893 May 13 16:30	0°♄	
	2892 Jun 07 13:32	0°♄			2893 May 30 22:12	0°♄	
morning set	2892 Jun 17 18:24	19°♄45'46		morning set	2893 Jun 02 01:52	4°♄24'28	
asc. node	2892 Jun 18 23:18	22°♄18'58		asc. node	2893 Jun 05 20:21	12°♄24'45	
	2892 Jun 22 12:21	0°♄		max. Earth dist.	2893 Jun 08 11:35	18°♄09'37	1.32136 AU
superior conj	2892 Jun 24 18:37	4°♄58'33	0°57'49	superior conj	2893 Jun 09 06:09	19°♄51'42	0°35'17
minimum elong	2892 Jun 24 16:27	4°♄46'39	0°57'25	minimum elong	2893 Jun 09 04:39	19°♄43'26	0°34'58
max. Earth dist.	2892 Jun 24 23:41	5°♄26'25	1.32189 AU		2893 Jun 13 21:07	0°♄	
evening rise	2892 Jul 01 16:23	19°♄56'19		evening rise	2893 Jun 16 02:19	4°♄45'24	
	2892 Jul 06 15:41	0°♄			2893 Jun 29 11:21	0°♄	
	2892 Jul 25 08:45	0°♄		desc. node	2893 Jul 13 13:33	18°♄24'54	
desc. node	2892 Jul 26 16:32	1°♄36'54		evening max el	2893 Jul 13 19:32	18°♄39'18	25°43'36
evening max el	2892 Jul 31 22:50	7°♄15'46	26°48'42	retrograde	2893 Jul 27 19:20	25°♄47'11	
retrograde	2892 Aug 14 21:24	14°♄28'01		evening set	2893 Aug 02 20:38	24°♄20'35	
evening set	2892 Aug 21 18:42	12°♄25'12		min. Earth dist.	2893 Aug 07 07:45	21°♄42'20	0.58410 AU
min. Earth dist.	2892 Aug 25 12:55	9°♄47'23	0.60469 AU	inferior conj	2893 Aug 10 12:58	19°♄23'59	-5°01'51
inferior conj	2892 Aug 28 18:39	7°♄06'39	-4°35'20	minimum elong	2893 Aug 10 14:45	19°♄20'46	5°01'46
minimum elong	2892 Aug 28 23:37	6°♄56'20	4°34'28	morning rise	2893 Aug 18 11:07	15°♄02'33	
morning rise	2892 Sep 05 06:26	2°♄22'15		direct	2893 Aug 20 23:05	14°♄42'36	
direct	2892 Sep 07 15:53	2°♄00'17		morning max el	2893 Aug 29 06:24	18°♄39'42	18°42'24
asc. node	2892 Sep 14 22:29	5°♄32'44		asc. node	2893 Sep 01 19:32	22°♄41'06	
morning max el	2892 Sep 15 00:29	5°♄37'33	18°06'49		2893 Sep 06 15:35	0°♄	
	2892 Sep 30 11:20	0°♄		morning set	2893 Sep 14 14:41	14°♄45'58	
morning set	2892 Sep 30 20:14	0°♄41'39			2893 Sep 22 11:28	0°♄	
superior conj	2892 Oct 10 13:40	18°♄37'28	1°17'08	superior conj	2893 Sep 23 06:37	1°♄30'34	1°35'34

minimum elong	2893 Sep 23 09:21	1°  43'23	1°35'22		2894 Aug 30 02:18	0° 	
max. Earth dist.	2893 Sep 30 10:39	14°  35'28	1.39546 AU				
evening rise	2893 Oct 04 11:32	21°  33'47		superior conj	2894 Sep 06 15:11	15°  10'05	1°44'03
desc. node	2893 Oct 09 12:52	29°  54'50		minimum elong	2894 Sep 06 16:06	15°  14'35	1°44'02
	2893 Oct 09 14:09	0° 		max. Earth dist.	2894 Sep 12 15:01	26°  41'11	1.37493 AU
	2893 Oct 30 03:14	0° 			2894 Sep 14 10:09	0° 	
evening max el	2893 Nov 08 15:31	11°  40'40	24°06'26	evening rise	2894 Sep 16 09:22	3°  33'02	
retrograde	2893 Nov 19 17:09	17°  34'33		desc. node	2894 Sep 26 09:54	20°  26'23	
evening set	2893 Nov 24 23:58	15°  22'22			2894 Oct 02 15:29	0° 	
asc. node	2893 Nov 28 18:44	11°  10'52		evening max el	2894 Oct 22 03:38	24°  44'43	25°21'47
inferior conj	2893 Nov 30 10:28	8°  57'57	0°33'52		2894 Oct 28 17:47	0° 	
minimum elong	2893 Nov 30 09:40	9°  00'40	0°33'31	retrograde	2894 Nov 03 04:41	1°  41'13	
min. Earth dist.	2893 Nov 29 18:11	9°  52'58	0.67722 AU		2894 Nov 08 01:58	30° 	
morning rise	2893 Dec 05 19:23	2°  53'41		evening set	2894 Nov 09 01:36	29°  13'54	
direct	2893 Dec 09 17:18	1°  26'37		min. Earth dist.	2894 Nov 13 11:56	24°  19'09	0.67188 AU
morning max el	2893 Dec 17 16:17	6°  00'48	20°29'57	inferior conj	2894 Nov 14 15:03	22°  51'24	-0°21'16
	2894 Jan 04 14:10	0° 		minimum elong	2894 Nov 14 15:36	22°  49'39	0°21'03
desc. node	2894 Jan 05 12:05	1°  32'15		asc. node	2894 Nov 15 15:47	21°  32'12	
morning set	2894 Jan 15 04:32	16°  07'40		morning rise	2894 Nov 20 05:52	16°  54'38	
	2894 Jan 23 23:36	0° 		direct	2894 Nov 23 15:46	15°  47'28	
max. Earth dist.	2894 Jan 24 15:41	1°  04'43	1.43357 AU	morning max el	2894 Nov 30 20:10	19°  49'48	19°26'08
					2894 Dec 08 22:42	0° 	
superior conj	2894 Jan 30 23:59	11°  28'15	-2°04'05	greatest brilliancy	2894 Dec 14 05:15	7°  44'31	-0.7m
minimum elong	2894 Jan 30 21:11	11°  16'38	2°04'00	desc. node	2894 Dec 23 09:09	21°  45'37	
	2894 Feb 10 19:55	0° 		morning set	2894 Dec 25 03:03	24°  47'43	
evening rise	2894 Feb 12 07:58	2°  37'58			2894 Dec 28 16:43	0° 	
asc. node	2894 Feb 24 18:05	23°  30'40		max. Earth dist.	2895 Jan 07 05:17	14°  55'12	1.44608 AU
evening max el	2894 Mar 01 15:15	29°  37'24	18°07'50				
	2894 Mar 02 00:35	0° 		superior conj	2895 Jan 10 21:06	20°  44'04	-1°45'34
retrograde	2894 Mar 08 03:07	3°  00'36		minimum elong	2895 Jan 10 13:01	20°  11'49	1°44'57
evening set	2894 Mar 10 22:03	2°  22'19			2895 Jan 16 15:01	0° 	
	2894 Mar 14 09:39	30° 		evening rise	2895 Jan 25 01:06	13°  53'47	
inferior conj	2894 Mar 17 06:00	27°  14'15	3°34'57		2895 Feb 03 18:20	0° 	
minimum elong	2894 Mar 17 07:18	27°  10'53	3°34'51	asc. node	2895 Feb 11 15:06	11°  17'55	
min. Earth dist.	2894 Mar 20 04:03	24°  15'05	0.62151 AU	evening max el	2895 Feb 13 03:46	12°  58'13	18°22'33
morning rise	2894 Mar 23 15:12	21°  14'44		retrograde	2895 Feb 19 15:21	16°  29'21	
direct	2894 Mar 30 12:31	18°  44'28		evening set	2895 Feb 22 15:44	15°  39'47	
desc. node	2894 Apr 03 11:17	19°  28'52		inferior conj	2895 Feb 28 13:47	10°  12'51	3°40'04
morning max el	2894 Apr 13 14:39	26°  41'04	27°50'42	minimum elong	2895 Feb 28 13:20	10°  14'12	3°40'02
	2894 Apr 16 17:29	0° 		min. Earth dist.	2895 Mar 02 21:03	7°  34'41	0.64060 AU
	2894 May 07 06:50	0° 		morning rise	2895 Mar 06 10:11	4°  05'03	
morning set	2894 May 17 04:22	18°  45'48		direct	2895 Mar 13 06:55	1°  17'15	
	2894 May 22 12:58	0° 		desc. node	2895 Mar 21 08:20	4°  21'29	
max. Earth dist.	2894 May 22 20:37	0°  41'09	1.32481 AU	morning max el	2895 Mar 26 23:32	9°  12'25	27°32'41
asc. node	2894 May 23 17:24	2°  33'29			2895 Apr 12 04:35	0° 	
					2895 Apr 29 14:19	0° 	
superior conj	2894 May 24 15:54	4°  35'41	0°09'52	morning set	2895 Apr 30 23:24	2°  41'54	
minimum elong	2894 May 24 15:26	4°  33'09	0°09'47	max. Earth dist.	2895 May 05 22:37	12°  47'47	1.33248 AU
behind sun begin	2894 May 24 11:21	4°  10'52					
behind sun end	2894 May 24 19:32	4°  55'26		superior conj	2895 May 08 22:02	19°  04'48	-0°17'37
evening rise	2894 May 31 14:00	19°  36'24		minimum elong	2895 May 08 22:55	19°  09'30	0°17'24
	2894 Jun 05 15:46	0° 		asc. node	2895 May 10 14:27	22°  41'12	
evening max el	2894 Jun 25 09:58	29°  21'29	24°15'26		2895 May 14 00:08	0° 	
	2894 Jun 26 02:18	0° 		evening rise	2895 May 16 01:36	4°  23'02	
desc. node	2894 Jun 30 10:34	3°  25'18			2895 May 30 00:22	0° 	
retrograde	2894 Jul 09 06:00	6°  20'11		evening max el	2895 Jun 07 00:07	9°  48'25	22°38'56
evening set	2894 Jul 13 22:50	5°  30'58		desc. node	2895 Jun 17 07:35	16°  02'54	
min. Earth dist.	2894 Jul 19 20:41	2°  34'36	0.56571 AU	retrograde	2895 Jun 20 04:36	16°  21'52	
inferior conj	2894 Jul 22 11:08	0°  56'53	-4°54'46	evening set	2895 Jun 23 09:41	15°  05'09	
minimum elong	2894 Jul 22 07:24	1°  02'47	4°54'25	min. Earth dist.	2895 Jul 01 08:00	12°  30'54	0.55294 AU
	2894 Jul 23 23:51	30° 		inferior conj	2895 Jul 02 14:53	11°  06'49	-4°00'49
morning rise	2894 Jul 30 18:37	26°  55'56		minimum elong	2895 Jul 02 06:54	11°  05'58'13	3°58'54
direct	2894 Aug 02 11:09	26°  36'43		morning rise	2895 Jul 11 06:22	7°  05'53'1	
	2894 Aug 10 20:35	0° 		direct	2895 Jul 14 05:07	7°  03'53'0	
morning max el	2894 Aug 12 02:46	1°  05'52	19°39'26	morning max el	2895 Jul 25 11:45	12°  05'49'36	20°57'19
asc. node	2894 Aug 19 16:36	10°  04'30'4		asc. node	2895 Aug 06 13:41	29°  06'26'2	
morning set	2894 Aug 29 16:54	29°  12'43			2895 Aug 06 21:12	0° 	

morning set	2895 Aug 14 00:17	13° Ω 55'01		morning set	2896 Jul 28 10:43	28° Ω 46'24	
					2896 Jul 29 00:43	0° Ω	
superior conj	2895 Aug 21 10:50	29° Ω 23'02	1°44'19	superior conj	2896 Aug 04 14:04	13° Ω 58'16	1°37'52
minimum elong	2895 Aug 21 10:12	29° Ω 19'43	1°44'18	minimum elong	2896 Aug 04 12:20	13° Ω 49'07	1°37'44
	2895 Aug 21 18:02	0° Π		max. Earth dist.	2896 Aug 07 16:55	20° Ω 30'55	1.34168 AU
max. Earth dist.	2895 Aug 25 23:38	8° Π 31'30	1.35655 AU	evening rise	2896 Aug 12 11:10	0° Π 06'48	
evening rise	2895 Aug 30 02:46	16° Π 28'13			2896 Aug 12 09:47	0° Π	
	2895 Sep 06 16:37	0° Ω		desc. node	2896 Aug 29 17:51	0° Ω	
desc. node	2895 Sep 13 06:55	10° Ω 43'02			2896 Aug 30 03:57	0° Ω 37'55	
	2895 Sep 27 01:49	0° Π		evening max el	2896 Sep 16 04:12	21° Ω 55'20	27°08'59
evening max el	2895 Oct 04 15:47	8° Π 24'06	26°25'08	retrograde	2896 Sep 29 12:18	29° Ω 13'15	
retrograde	2895 Oct 17 11:17	15° Π 36'31		evening set	2896 Oct 06 09:55	26° Ω 30'37	
evening set	2895 Oct 23 21:41	12° Π 58'04		min. Earth dist.	2896 Oct 10 06:34	22° Ω 47'25	0.65083 AU
min. Earth dist.	2895 Oct 28 00:50	8° Π 39'04	0.66310 AU	inferior conj	2896 Oct 12 09:11	20° Ω 25'53	-2°19'27
inferior conj	2895 Oct 29 15:21	6° Π 42'04	-1°19'40	minimum elong	2896 Oct 12 13:00	20° Ω 15'13	2°17'59
minimum elong	2895 Oct 29 17:30	6° Π 35'33	1°18'46	morning rise	2896 Oct 18 17:01	14° Ω 52'18	
asc. node	2895 Nov 02 12:51	2° Π 25'27		asc. node	2896 Oct 19 09:55	14° Ω 34'49	
morning rise	2895 Nov 04 13:52	0° Π 55'23		direct	2896 Oct 21 09:32	14° Ω 13'42	
direct	2895 Nov 07 13:53	0° Π 04'27		morning max el	2896 Oct 27 21:34	17° Ω 42'54	18°06'00
morning max el	2895 Nov 14 06:42	3° Π 45'36	18°37'45		2896 Nov 05 22:15	0° Π	
	2895 Dec 02 11:25	0° Σ		morning set	2896 Nov 14 23:58	14° Π 52'19	
morning set	2895 Dec 04 22:46	3° Σ 55'49			2896 Nov 24 05:38	0° Σ	
desc. node	2895 Dec 10 06:11	12° Σ 20'42		desc. node	2896 Nov 26 03:12	3° Σ 03'26	
				superior conj	2896 Nov 29 06:21	8° Σ 03'29	-0°21'08
superior conj	2895 Dec 21 00:40	29° Σ 17'25	-1°08'36	minimum elong	2896 Nov 29 03:41	7° Σ 52'54	0°20'45
minimum elong	2895 Dec 20 16:29	28° Σ 45'17	1°07'38	max. Earth dist.	2896 Dec 02 17:58	13° Σ 34'20	1.44998 AU
max. Earth dist.	2895 Dec 20 22:52	29° Σ 10'21	1.45172 AU		2896 Dec 13 06:30	0° Σ	
	2895 Dec 21 11:31	0° Ξ		evening rise	2896 Dec 15 15:27	3° Ξ 40'35	
evening rise	2896 Jan 05 18:58	24° Ξ 11'42		greatest brilliancy	2896 Dec 28 21:20	23° Ξ 57'43	-0.7m
	2896 Jan 09 10:11	0° \approx			2897 Jan 02 00:23	0° \approx	
greatest brilliancy	2896 Jan 14 02:13	7° \approx 26'00	-0.8m	evening max el	2897 Jan 09 20:49	9° \approx 56'07	19°44'22
evening max el	2896 Jan 27 14:16	26° \approx 25'30	18°55'15	asc. node	2897 Jan 15 09:11	13° \approx 54'40	
asc. node	2896 Jan 29 12:09	28° \approx 10'37		retrograde	2897 Jan 17 06:57	14° \approx 14'31	
	2896 Feb 01 17:25	0° X		evening set	2897 Jan 20 21:06	12° \approx 59'07	
retrograde	2896 Feb 03 09:40	0° X 15'41		inferior conj	2897 Jan 26 08:10	7° \approx 00'36	3°05'11
	2896 Feb 05 01:13	30° R		minimum elong	2897 Jan 26 05:45	7° \approx 08'36	3°04'40
evening set	2896 Feb 06 16:15	29° \approx 13'49		min. Earth dist.	2897 Jan 27 09:27	5° \approx 36'58	0.66766 AU
inferior conj	2896 Feb 12 07:33	23° \approx 29'57	3°28'47	morning rise	2897 Jan 31 14:10	0° \approx 47'19	
minimum elong	2896 Feb 12 05:49	23° \approx 35'22	3°28'34		2897 Feb 01 12:47	30° R	
min. Earth dist.	2896 Feb 13 23:20	21° \approx 25'55	0.65617 AU	direct	2897 Feb 06 15:29	28° Ξ 05'17	
morning rise	2896 Feb 17 18:59	17° \approx 18'10			2897 Feb 12 09:14	0° \approx	
direct	2896 Feb 24 08:18	14° \approx 27'00		morning max el	2897 Feb 18 18:24	5° \approx 18'46	25°30'23
desc. node	2896 Mar 07 05:22	20° \approx 59'57		desc. node	2897 Feb 22 02:24	8° \approx 54'39	
morning max el	2896 Mar 08 09:23	22° \approx 08'41	26°43'02		2897 Mar 09 19:02	0° X	
	2896 Mar 15 06:55	0° X		morning set	2897 Mar 27 00:15	28° X 31'48	
morning set	2896 Apr 04 10:08	0° Υ			2897 Mar 27 19:35	0° Υ	
max. Earth dist.	2896 Apr 13 07:30	16° Υ 01'27		max. Earth dist.	2897 Mar 30 17:41	5° Υ 26'13	1.36159 AU
	2896 Apr 17 13:54	24° Υ 20'15	1.34475 AU				
	2896 Apr 20 09:07	0° B		superior conj	2897 Apr 05 14:01	16° Υ 48'31	-1°13'56
superior conj	2896 Apr 21 22:17	3° B 11'26	-0°46'04	minimum elong	2897 Apr 05 17:47	17° Υ 07'18	1°13'20
minimum elong	2896 Apr 22 00:40	3° B 23'48	0°45'36		2897 Apr 12 02:05	0° B	
asc. node	2896 Apr 26 11:29	12° B 43'02		asc. node	2897 Apr 13 08:31	2° B 35'02	
evening rise	2896 Apr 29 11:07	18° B 58'04		evening rise	2897 Apr 13 16:30	3° B 15'35	
	2896 May 04 23:18	0° Π			2897 Apr 29 12:41	0° Π	
evening max el	2896 May 18 21:43	20° Π 31'34	21°08'36	evening max el	2897 May 01 06:58	1° Π 51'15	19°53'43
retrograde	2896 May 30 18:06	26° Π 19'12		retrograde	2897 May 11 09:41	6° Π 45'22	
evening set	2896 Jun 01 23:46	26° Π 07'34		evening set	2897 May 13 09:28	6° Π 34'49	
desc. node	2896 Jun 03 04:37	25° Π 52'12		desc. node	2897 May 21 01:37	3° Π 18'31	
inferior conj	2896 Jun 11 08:44	22° Π 09'17	-2°21'09	inferior conj	2897 May 22 06:58	2° Π 34'11	-0°21'31
minimum elong	2896 Jun 11 02:16	22° Π 18'23	2°18'57	minimum elong	2897 May 22 05:59	2° Π 35'41	0°21'09
min. Earth dist.	2896 Jun 11 19:57	21° Π 53'29	0.54872 AU	min. Earth dist.	2897 May 24 09:10	1° Π 17'48	0.55421 AU
morning rise	2896 Jun 20 04:55	18° Π 09'21			2897 May 26 15:39	30° R	
direct	2896 Jun 23 14:48	17° Π 44'10		morning rise	2897 May 31 00:23	28° B 07'42	
morning max el	2896 Jul 06 09:50	23° Π 49'48	22°32'13	direct	2897 Jun 04 05:22	27° B 28'47	
	2896 Jul 11 22:55	0° Ξ			2897 Jun 12 11:13	0° Π	
asc. node	2896 Jul 23 10:45	18° Ξ 40'16					

morning max el	2897 Jun 18 00:58	4° Π 19'56	24°14'53		2898 Jun 11 19:12	0° Π	
	2897 Jul 06 02:04	0° \mathfrak{D}		morning set	2898 Jun 27 09:54	28° Π 35'45	
asc. node	2897 Jul 10 07:47	8° \mathfrak{D} 16'32		asc. node	2898 Jun 27 04:49	28° Π 08'57	
morning set	2897 Jul 12 22:27	13° \mathfrak{D} 41'39			2898 Jun 28 01:48	0° \mathfrak{D}	
superior conj	2897 Jul 19 22:12	28° \mathfrak{D} 47'23	1°25'52	superior conj	2898 Jul 04 09:06	13° \mathfrak{D} 43'36	1°09'14
minimum elong	2897 Jul 19 19:54	28° \mathfrak{D} 34'59	1°25'35	minimum elong	2898 Jul 04 06:45	13° \mathfrak{D} 30'45	1°08'51
	2897 Jul 20 11:36	0° Ω		max. Earth dist.	2898 Jul 05 04:14	15° \mathfrak{D} 28'39	1.32402 AU
max. Earth dist.	2897 Jul 21 19:19	2° Ω 50'56	1.33084 AU	evening rise	2898 Jul 11 09:31	28° \mathfrak{D} 49'29	
evening rise	2897 Jul 27 06:30	14° Ω 17'09			2898 Jul 11 23:09	0° Ω	
	2897 Aug 04 12:16	0° \mathfrak{N}			2898 Jul 28 17:09	0° \mathfrak{N}	
desc. node	2897 Aug 17 00:58	20° \mathfrak{N} 01'29		desc. node	2898 Aug 03 21:58	8° \mathfrak{N} 40'49	
	2897 Aug 24 19:09	0° \mathfrak{A}		evening max el	2898 Aug 11 22:25	17° \mathfrak{N} 42'09	27°11'56
evening max el	2897 Aug 29 15:16	5° \mathfrak{A} 05'53	27°26'16	retrograde	2898 Aug 25 18:41	24° \mathfrak{N} 56'04	
retrograde	2897 Sep 12 06:57	12° \mathfrak{A} 22'40		evening set	2898 Sep 01 21:54	22° \mathfrak{N} 36'41	
evening set	2897 Sep 19 11:14	9° \mathfrak{A} 45'32		min. Earth dist.	2898 Sep 05 12:40	19° \mathfrak{N} 51'23	0.61645 AU
min. Earth dist.	2897 Sep 23 02:57	6° \mathfrak{A} 35'22	0.63515 AU	inferior conj	2898 Sep 08 14:33	17° \mathfrak{N} 06'35	-4°10'25
inferior conj	2897 Sep 25 17:57	3° \mathfrak{A} 56'32	-3°17'53	minimum elong	2898 Sep 08 20:08	16° \mathfrak{N} 54'05	4°09'07
minimum elong	2897 Sep 25 23:08	3° \mathfrak{A} 43'25	3°16'12	morning rise	2898 Sep 15 20:02	12° \mathfrak{N} 09'43	
	2897 Sep 30 03:00	30° \mathfrak{R} \mathfrak{N}		direct	2898 Sep 18 05:33	11° \mathfrak{N} 45'32	
morning rise	2897 Oct 02 12:17	28° \mathfrak{N} 39'31		asc. node	2898 Sep 23 04:01	13° \mathfrak{N} 31'59	
direct	2897 Oct 04 23:56	28° \mathfrak{N} 09'37		morning max el	2898 Sep 25 04:52	15° \mathfrak{N} 15'33	17°55'45
asc. node	2897 Oct 06 06:59	28° \mathfrak{N} 17'53			2898 Oct 05 09:42	0° \mathfrak{A}	
	2897 Oct 09 18:30	0° \mathfrak{A}		morning set	2898 Oct 11 01:34	10° \mathfrak{A} 11'10	
morning max el	2897 Oct 11 13:57	1° \mathfrak{A} 35'05	17°51'41				
morning set	2897 Oct 28 03:01	27° \mathfrak{A} 03'43		superior conj	2898 Oct 21 13:58	29° \mathfrak{A} 00'42	1°01'24
	2897 Oct 29 19:38	0° \mathfrak{M}		minimum elong	2898 Oct 21 18:20	29° \mathfrak{A} 19'40	1°00'50
					2898 Oct 22 03:40	0° \mathfrak{M}	
superior conj	2897 Nov 09 08:35	17° \mathfrak{M} 51'51	0°24'52	max. Earth dist.	2898 Oct 29 01:06	11° \mathfrak{M} 37'03	1.42632 AU
minimum elong	2897 Nov 09 11:08	18° \mathfrak{M} 02'25	0°24'31	desc. node	2898 Oct 30 21:16	14° \mathfrak{M} 37'31	
desc. node	2897 Nov 13 00:14	23° \mathfrak{M} 49'59		evening rise	2898 Nov 04 14:53	22° \mathfrak{M} 11'48	
max. Earth dist.	2897 Nov 15 11:41	27° \mathfrak{M} 49'11	1.44116 AU		2898 Nov 09 15:30	0° \mathfrak{J}	
	2897 Nov 16 20:29	0° \mathfrak{J}			2898 Nov 30 16:31	0° \mathfrak{Z}	
evening rise	2897 Nov 25 00:36	12° \mathfrak{J} 46'54		evening max el	2898 Dec 06 17:35	6° \mathfrak{Z} 59'16	22°01'12
	2897 Dec 06 09:50	0° \mathfrak{Z}		retrograde	2898 Dec 16 01:35	12° \mathfrak{Z} 32'35	
evening max el	2897 Dec 23 21:59	23° \mathfrak{Z} 27'12	20°47'33	evening set	2898 Dec 20 11:55	10° \mathfrak{Z} 46'19	
retrograde	2898 Jan 01 04:52	28° \mathfrak{Z} 21'08		asc. node	2898 Dec 20 03:14	11° \mathfrak{Z} 03'10	
asc. node	2898 Jan 02 06:13	28° \mathfrak{Z} 14'58		inferior conj	2898 Dec 25 20:17	4° \mathfrak{Z} 27'09	1°51'00
evening set	2898 Jan 05 04:14	26° \mathfrak{Z} 50'51		minimum elong	2898 Dec 25 18:05	4° \mathfrak{Z} 34'48	1°50'12
inferior conj	2898 Jan 10 13:06	20° \mathfrak{Z} 40'20	2°31'58	min. Earth dist.	2898 Dec 25 20:53	4° \mathfrak{Z} 25'06	0.67866 AU
minimum elong	2898 Jan 10 10:33	20° \mathfrak{Z} 49'05	2°31'13		2898 Dec 29 06:28	30° \mathfrak{R} \mathfrak{J}	
min. Earth dist.	2898 Jan 11 01:21	19° \mathfrak{Z} 58'21	0.67507 AU	morning rise	2898 Dec 31 00:07	28° \mathfrak{J} 15'53	
morning rise	2898 Jan 15 16:42	14° \mathfrak{Z} 27'18		direct	2899 Jan 04 19:58	26° \mathfrak{J} 13'32	
direct	2898 Jan 21 03:35	12° \mathfrak{Z} 02'55			2899 Jan 12 11:05	0° \mathfrak{Z}	
morning max el	2898 Feb 01 02:47	18° \mathfrak{Z} 35'15	24°04'45	morning max el	2899 Jan 14 13:07	1° \mathfrak{Z} 57'56	22°36'05
desc. node	2898 Feb 08 23:25	27° \mathfrak{Z} 43'02		desc. node	2899 Jan 26 20:27	17° \mathfrak{Z} 10'06	
	2898 Feb 10 17:30	0° \mathfrak{A}			2899 Feb 04 17:37	0° \mathfrak{A}	
	2898 Mar 02 21:47	0° \mathfrak{H}		morning set	2899 Feb 17 12:22	20° \mathfrak{A} 01'43	
morning set	2898 Mar 08 19:52	9° \mathfrak{H} 56'44		max. Earth dist.	2899 Feb 22 09:57	28° \mathfrak{A} 12'48	1.40350 AU
max. Earth dist.	2898 Mar 12 13:55	16° \mathfrak{H} 32'26	1.38189 AU		2899 Feb 23 11:02	0° \mathfrak{H}	
superior conj	2898 Mar 19 17:41	29° \mathfrak{H} 46'11	-1°39'00	superior conj	2899 Mar 02 04:49	11° \mathfrak{H} 53'12	-1°57'55
minimum elong	2898 Mar 19 22:10	0° \mathfrak{Y} 07'35	1°38'29	minimum elong	2899 Mar 02 08:30	12° \mathfrak{H} 09'53	1°57'41
	2898 Mar 19 20:35	0° \mathfrak{Y}			2899 Mar 11 22:12	0° \mathfrak{Y}	
evening rise	2898 Mar 28 15:11	17° \mathfrak{Y} 08'10		evening rise	2899 Mar 12 04:03	0° \mathfrak{Y} 27'37	
asc. node	2898 Mar 31 05:32	22° \mathfrak{Y} 12'16		asc. node	2899 Mar 18 02:34	11° \mathfrak{Y} 28'53	
	2898 Apr 04 09:52	0° \mathfrak{B}		evening max el	2899 Mar 28 08:38	26° \mathfrak{Y} 24'15	18°23'14
evening max el	2898 Apr 14 03:30	13° \mathfrak{B} 50'51	18°58'20		2899 Apr 03 20:21	0° \mathfrak{B}	
retrograde	2898 Apr 22 16:00	17° \mathfrak{B} 59'45		retrograde	2899 Apr 04 17:20	0° \mathfrak{B} 03'04	
evening set	2898 Apr 24 19:32	17° \mathfrak{B} 45'00			2899 Apr 05 14:30	30° \mathfrak{R} \mathfrak{Y}	
inferior conj	2898 May 02 21:56	13° \mathfrak{B} 29'19	1°24'35	evening set	2899 Apr 07 03:03	29° \mathfrak{Y} 40'46	
minimum elong	2898 May 03 01:00	13° \mathfrak{B} 23'54	1°23'35	inferior conj	2899 Apr 14 10:18	25° \mathfrak{Y} 05'19	2°39'32
min. Earth dist.	2898 May 06 00:48	11° \mathfrak{B} 18'21	0.56813 AU	minimum elong	2899 Apr 14 14:04	24° \mathfrak{Y} 57'30	2°38'36
desc. node	2898 May 07 22:36	10° \mathfrak{B} 05'09		min. Earth dist.	2899 Apr 17 20:54	22° \mathfrak{Y} 16'12	0.58763 AU
morning rise	2898 May 11 03:20	8° \mathfrak{B} 27'50		morning rise	2899 Apr 21 22:13	19° \mathfrak{Y} 33'17	
direct	2898 May 16 08:26	7° \mathfrak{B} 23'19		desc. node	2899 Apr 24 19:38	18° \mathfrak{Y} 21'40	
morning max el	2898 May 30 15:37	14° \mathfrak{B} 47'10	25°50'51	direct	2899 Apr 28 01:31	17° \mathfrak{Y} 53'41	

morning max el	2899 May 12 10:52	25° Υ 38'02	27°04'27	desc. node	2900 Apr 11 16:40	29° X 18'25	
	2899 May 16 12:27	0° B			2900 Apr 14 10:27	0° Υ	
	2899 Jun 05 02:13	0° Π		morning max el	2900 Apr 24 12:18	7° Υ 07'38	27°44'35
morning set	2899 Jun 11 19:21	13° Π 22'10			2900 May 11 19:58	0° B	
asc. node	2899 Jun 14 01:50	18° Π 11'23		morning set	2900 May 27 01:00	27° B 54'51	
					2900 May 28 01:08	0° Π	
superior conj	2899 Jun 18 20:54	28° Π 39'50	0°48'40	asc. node	2900 May 31 22:54	8° Π 19'20	
minimum elong	2899 Jun 18 18:58	28° Π 29'11	0°48'17	max. Earth dist.	2900 Jun 02 03:07	10° Π 52'46	1.32228 AU
max. Earth dist.	2899 Jun 18 16:06	28° Π 13'23	1.32116 AU				
	2899 Jun 19 11:27	0° E		superior conj	2900 Jun 03 07:55	13° Π 30'20	0°24'50
evening rise	2899 Jun 25 17:33	13° E 34'35		minimum elong	2900 Jun 03 06:49	13° Π 24'15	0°24'36
	2899 Jul 04 00:48	0° Ω		evening rise	2900 Jun 10 04:28	28° Π 25'29	
desc. node	2899 Jul 21 18:59	26° Ω 16'41			2900 Jun 10 22:20	0° E	
evening max el	2899 Jul 24 23:07	29° Ω 32'39	26°24'25		2900 Jun 27 18:40	0° Ω	
	2899 Jul 25 10:47	0° P		evening max el	2900 Jul 06 16:43	10° Ω 36'55	25°08'09
retrograde	2899 Aug 07 22:33	6° P 43'52		desc. node	2900 Jul 08 15:58	12° Ω 23'23	
evening set	2899 Aug 14 13:06	4° P 55'10		retrograde	2900 Jul 20 16:19	17° Ω 42'37	
min. Earth dist.	2899 Aug 18 12:18	2° P 19'42	0.59590 AU	evening set	2900 Jul 26 04:47	16° Ω 32'36	
inferior conj	2899 Aug 21 19:25	29° Ω 45'44	-4°49'41	min. Earth dist.	2900 Jul 31 04:27	13° Ω 48'18	0.57584 AU
minimum elong	2899 Aug 21 23:23	29° Ω 37'57	4°49'13	inferior conj	2900 Aug 03 05:20	11° Ω 45'07	-5°03'54
	2899 Aug 21 12:09	30° R Ω		minimum elong	2900 Aug 03 04:56	11° Ω 45'47	5°03'53
morning rise	2899 Aug 29 11:48	25° Ω 11'28		morning rise	2900 Aug 11 07:36	7° Ω 32'59	
direct	2899 Aug 31 21:57	24° Ω 50'38		direct	2900 Aug 13 21:04	7° Ω 13'39	
morning max el	2899 Sep 08 15:06	28° Ω 34'47	18°19'24	morning max el	2900 Aug 22 17:20	11° Ω 23'08	19°03'55
	2899 Sep 09 23:58	0° P		asc. node	2900 Aug 27 22:07	17° Ω 36'02	
asc. node	2899 Sep 10 01:03	0° P 03'02			2900 Sep 04 06:28	0° P	
morning set	2899 Sep 24 13:59	23° P 57'54		morning set	2900 Sep 08 12:05	8° P 12'33	
	2899 Sep 27 17:59	0° E					
superior conj	2899 Oct 03 19:31	11° E 20'21	1°26'15	superior conj	2900 Sep 16 19:42	24° P 34'50	1°40'16
minimum elong	2899 Oct 03 23:10	11° E 37'05	1°25'55	minimum elong	2900 Sep 16 21:39	24° P 44'13	1°40'09
max. Earth dist.	2899 Oct 11 08:46	24° E 43'03	1.40729 AU		2900 Sep 19 16:06	0° E	
	2899 Oct 14 11:51	0° M		max. Earth dist.	2900 Sep 23 12:47	7° E 06'19	1.38664 AU
evening rise	2899 Oct 15 23:56	2° M 29'16		evening rise	2900 Sep 27 08:46	13° E 52'35	
desc. node	2899 Oct 17 18:19	5° M 22'08		desc. node	2900 Oct 04 15:21	25° E 59'48	
	2899 Nov 02 23:55	0° X			2900 Oct 07 04:02	0° M	
evening max el	2899 Nov 19 08:41	20° X 34'05	23°20'38	evening max el	2900 Oct 28 22:39	0° X	
retrograde	2899 Nov 29 19:40	26° X 45'37		retrograde	2900 Nov 01 21:26	4° X 13'02	24°39'34
evening set	2899 Dec 04 18:32	24° X 42'52		retrograde	2900 Nov 13 09:50	10° X 55'50	
asc. node	2899 Dec 07 00:16	22° X 26'20		evening set	2900 Nov 18 22:29	8° X 37'10	
min. Earth dist.	2899 Dec 09 17:40	18° X 54'02	0.67868 AU	min. Earth dist.	2900 Nov 23 13:19	3° X 22'03	0.67532 AU
inferior conj	2899 Dec 10 03:53	18° X 18'59	1°03'37	asc. node	2900 Nov 23 21:19	2° X 55'27	
minimum elong	2899 Dec 10 02:27	18° X 23'53	1°03'01	inferior conj	2900 Nov 24 10:06	2° X 12'54	0°10'58
morning rise	2899 Dec 15 10:18	12° X 11'22		minimum elong	2900 Nov 24 09:49	2° X 13'49	0°10'50
direct	2899 Dec 19 15:47	10° X 31'49		transit middle	2900 Nov 24 09:49	2° X 13'49	0°10'50
morning max el	2899 Dec 28 04:49	15° X 29'54	21°12'51	transit begin	2900 Nov 24 07:47	2° X 20'38	
	2900 Jan 08 18:53	0° B		transit end	2900 Nov 24 11:52	2° X 07'00	
desc. node	2900 Jan 13 17:31	7° B 05'17			2900 Nov 26 02:56	30° R M	
morning set	2900 Jan 28 00:28	28° B 47'42		morning rise	2900 Nov 29 21:15	26° M 11'14	
	2900 Jan 28 18:49	0° \approx		direct	2900 Dec 03 13:49	24° M 52'59	
max. Earth dist.	2900 Feb 04 11:36	10° \approx 46'17	1.42364 AU	morning max el	2900 Dec 11 04:03	29° M 12'33	20°00'54
					2900 Dec 11 22:25	0° X	
superior conj	2900 Feb 11 18:20	22° \approx 58'09	-2°06'12	desc. node	2900 Dec 31 14:35	27° X 20'23	
minimum elong	2900 Feb 11 18:40	22° \approx 59'34	2°06'11		2901 Jan 02 08:30	0° B	
	2900 Feb 15 19:33	0° X		morning set	2901 Jan 06 20:40	6° B 55'13	
evening rise	2900 Feb 23 03:18	13° X 05'26		max. Earth dist.	2901 Jan 17 21:05	24° B 12'06	1.43964 AU
asc. node	2900 Mar 04 23:36	0° Υ 18'07			2901 Jan 21 11:38	0° \approx	
	2900 Mar 04 19:05	0° Υ		superior conj	2901 Jan 23 06:07	2° \approx 52'41	-1°58'38
evening max el	2900 Mar 11 19:07	9° Υ 22'52	18°07'59	minimum elong	2901 Jan 23 00:49	2° \approx 31'05	1°58'23
retrograde	2900 Mar 18 11:32	12° Υ 47'26		evening rise	2901 Feb 05 08:34	24° \approx 52'36	
evening set	2900 Mar 21 03:14	12° Υ 15'25			2901 Feb 08 08:03	0° X	
inferior conj	2900 Mar 27 18:35	7° Υ 19'22	3°22'26	asc. node	2901 Feb 19 20:38	18° X 30'52	
minimum elong	2900 Mar 27 20:59	7° Υ 13'38	3°22'05	evening max el	2901 Feb 23 07:45	22° X 37'33	18°11'55
min. Earth dist.	2900 Mar 30 23:43	4° Υ 16'33	0.60928 AU	retrograde	2901 Mar 01 18:19	26° X 02'19	
morning rise	2900 Apr 03 12:47	1° Υ 27'19		evening set	2901 Mar 04 15:35	25° X 19'17	
	2900 Apr 06 06:32	30° R X		inferior conj	2901 Mar 10 18:55	20° X 03'15	3°39'23
direct	2900 Apr 10 06:29	29° X 12'41		minimum elong	2901 Mar 10 19:25	20° X 01'53	3°39'23

min. Earth dist.	2901 Mar 13 11:03	17°  10'49	0.63003 AU	min. Earth dist.	2902 Feb 24 07:54	0°  45'40	0.64779 AU
morning rise	2901 Mar 16 22:13	13°  59'48			2902 Feb 24 23:49	30° 	
direct	2901 Mar 23 20:30	11°  20'04		morning rise	2902 Feb 27 23:30	27°  00'32	
desc. node	2901 Mar 29 13:43	12°  53'23		direct	2902 Mar 06 17:50	24°  09'50	
morning max el	2901 Apr 06 18:51	19°  17'02	27°47'17	desc. node	2902 Mar 16 10:47	28°  35'04	
	2901 Apr 15 21:23	0° 			2902 Mar 18 02:12	0° 	
	2901 May 04 17:58	0° 		morning max el	2902 Mar 20 04:20	1°  59'53	27°14'57
morning set	2901 May 11 00:38	12°  05'59			2902 Apr 10 02:10	0° 	
max. Earth dist.	2901 May 16 09:24	23°  13'42	1.32750 AU	morning set	2902 Apr 24 15:25	25°  47'12	
					2902 Apr 26 18:44	0° 	
superior conj	2901 May 18 16:22	28°  08'36	-0°01'35	max. Earth dist.	2902 Apr 29 07:16	5°  06'10	1.33717 AU
minimum elong	2901 May 18 16:26	28°  09'00	0°01'34				
behind sun begin	2901 May 18 11:13	27°  40'49		superior conj	2902 May 02 20:16	12°  28'36	-0°29'38
behind sun end	2901 May 18 21:40	28°  37'13		minimum elong	2902 May 02 21:46	12°  36'35	0°29'19
asc. node	2901 May 18 19:58	28°  28'03		asc. node	2902 May 05 17:00	18°  33'29	
	2901 May 19 12:57	0° 		evening rise	2902 May 10 03:15	27°  57'25	
evening rise	2901 May 25 16:19	13°  15'07			2902 May 11 02:45	0° 	
	2901 Jun 03 03:26	0° 			2902 May 29 08:14	0° 	
evening max el	2901 Jun 18 06:17	21°  09'26	23°34'35	evening max el	2902 May 30 22:44	1°  39'06	21°59'00
desc. node	2901 Jun 25 12:58	26°  27'33		desc. node	2902 Jun 12 09:59	7°  54'43	
retrograde	2901 Jul 01 21:34	27°  59'15		retrograde	2902 Jun 12 15:01	7°  54'49	
evening set	2901 Jul 05 22:37	27°  23'26		evening set	2902 Jun 15 08:14	7°  38'20	
min. Earth dist.	2901 Jul 12 16:27	24°  15'02	0.55941 AU	min. Earth dist.	2902 Jun 24 03:24	3°  52'51	0.54997 AU
inferior conj	2901 Jul 14 19:09	22°  59'18	-4°38'08	inferior conj	2902 Jun 24 17:03	3°  33'44	-3°23'05
minimum elong	2901 Jul 14 13:07	23°  08'21	4°37'10	minimum elong	2902 Jun 24 08:56	3°  45'06	3°20'45
morning rise	2901 Jul 23 06:10	19°  03'54			2902 Jul 02 07:20	30° 	
direct	2901 Jul 26 01:11	18°  44'29		morning rise	2902 Jul 03 11:12	29°  41'39	
morning max el	2901 Aug 05 08:54	23°  31'44	20°10'02	direct	2902 Jul 06 14:07	29°  20'04	
	2901 Aug 10 22:10	0° 			2902 Jul 10 17:13	0° 	
asc. node	2901 Aug 14 19:12	5°  57'18		morning max el	2902 Jul 18 12:48	4°  55'22	21°36'08
morning set	2901 Aug 23 16:49	22°  04'16		asc. node	2902 Aug 01 16:15	24°  54'41	
	2901 Aug 27 05:17	0° 			2902 Aug 04 08:09	0° 	
				morning set	2902 Aug 08 01:44	7°  34'27	
superior conj	2901 Aug 31 09:28	8°  30'16	1°45'04				
minimum elong	2901 Aug 31 09:40	8°  31'17	1°45'04	superior conj	2902 Aug 15 08:43	22°  53'53	1°42'20
max. Earth dist.	2901 Sep 05 18:34	19°  03'55	1.36682 AU	minimum elong	2902 Aug 15 07:33	22°  47'48	1°42'16
evening rise	2901 Sep 09 15:33	26°  17'49			2902 Aug 18 19:32	0° 	
	2901 Sep 11 16:53	0° 		max. Earth dist.	2902 Aug 19 06:57	0°  57'41	1.34974 AU
desc. node	2901 Sep 21 12:21	16°  26'09		evening rise	2902 Aug 23 15:50	9°  32'53	
	2901 Sep 30 15:16	0° 			2902 Sep 04 05:22	0° 	
evening max el	2901 Oct 15 09:45	17°  54'58	25°50'42	desc. node	2902 Sep 08 09:21	6°  34'47	
retrograde	2901 Oct 27 19:14	24°  58'50			2902 Sep 26 08:57	0° 	
evening set	2901 Nov 02 22:00	22°  26'26		evening max el	2902 Sep 27 22:07	1°  32'25	26°46'32
min. Earth dist.	2901 Nov 07 05:20	17°  46'40	0.66860 AU	retrograde	2902 Oct 10 23:18	8°  47'34	
inferior conj	2901 Nov 08 13:08	16°  06'20	-0°45'44	evening set	2902 Oct 17 15:02	6°  06'14	
minimum elong	2901 Nov 08 14:20	16°  02'32	0°45'12	min. Earth dist.	2902 Oct 21 15:20	2°  02'49	0.65840 AU
asc. node	2901 Nov 10 18:23	13°  24'20		inferior conj	2902 Oct 23 10:56	29°  54'45	-1°44'58
morning rise	2901 Nov 14 06:59	10°  13'20		minimum elong	2902 Oct 23 13:48	29°  46'20	1°43'47
direct	2901 Nov 17 12:30	9°  13'21			2902 Oct 23 09:10	30° 	
morning max el	2901 Nov 24 10:57	13°  05'11	19°03'31	asc. node	2902 Oct 28 15:26	24°  46'12	
	2901 Dec 06 23:42	0° 		morning rise	2902 Oct 29 13:16	24°  43'24	
morning set	2901 Dec 17 02:11	15°  39'21		direct	2902 Nov 01 09:52	23°  42'06	
desc. node	2901 Dec 18 11:38	17°  34'56		morning max el	2902 Nov 07 23:41	27°  02'38	18°22'10
	2901 Dec 26 06:28	0° 			2902 Nov 10 14:27	0° 	
max. Earth dist.	2901 Dec 31 13:11	8°  31'16	1.44945 AU	morning set	2902 Nov 27 10:22	25°  45'35	
					2902 Nov 30 01:30	0° 	
superior conj	2902 Jan 02 18:01	11°  34'53	-1°31'52	desc. node	2902 Dec 05 08:39	8°  37'28'46	
minimum elong	2902 Jan 02 09:00	11°  30'58	1°30'59				
	2902 Jan 14 03:33	0° 		superior conj	2902 Dec 12 19:40	20°  37'16'20	-0°49'00
evening rise	2902 Jan 17 15:59	5°  43'56		minimum elong	2902 Dec 12 13:27	19°  37'51'54	0°48'11
	2902 Feb 01 22:39	0° 		max. Earth dist.	2902 Dec 14 08:15	22°  37'40'04	1.45196 AU
asc. node	2902 Feb 06 17:40	5°  56'40			2902 Dec 19 00:30	0° 	
evening max el	2902 Feb 06 19:44	6°  01'57	18°34'19	evening rise	2902 Dec 29 00:06	15°  39'15	
retrograde	2902 Feb 13 09:31	9°  39'34			2903 Jan 07 03:47	0° 	
evening set	2902 Feb 16 12:32	8°  44'41		greatest brilliancy	2903 Jan 08 14:27	2°  14'09	-0.8m
inferior conj	2902 Feb 22 07:21	3°  36'57	3°36'57	evening max el	2903 Jan 21 04:41	19°  30'39	19°14'12
minimum elong	2902 Feb 22 06:16	3°  13'23	3°36'52	asc. node	2903 Jan 24 14:41	22°  32'00	

retrograde	2903 Jan 28 05:32	23° \approx 31'56		asc. node	2904 Jan 11 11:43	7° \approx 31'58	
evening set	2903 Jan 31 15:11	22° \approx 24'21		retrograde	2904 Jan 12 03:26	7° \approx 34'20	
inferior conj	2903 Feb 06 04:22	16° \approx 33'38	3°20'05	evening set	2904 Jan 15 21:13	6° \approx 12'51	
minimum elong	2903 Feb 06 02:16	16° \approx 40'22	3°19'44	inferior conj	2904 Jan 21 07:07	0° \approx 08'41	2°52'10
min. Earth dist.	2903 Feb 07 13:42	14° \approx 46'39	0.66156 AU	minimum elong	2904 Jan 21 04:34	0° \approx 17'14	2°51'31
morning rise	2903 Feb 11 13:05	10° \approx 20'56			2904 Jan 21 09:41	30° \approx 00'	
direct	2903 Feb 17 21:34	7° \approx 32'42		min. Earth dist.	2904 Jan 22 02:40	29° \approx 02'44	0.67126 AU
morning max el	2903 Mar 02 14:12	15° \approx 04'07	26°14'26	morning rise	2904 Jan 26 11:43	23° \approx 55'03	
desc. node	2903 Mar 03 07:50	15° \approx 49'18		direct	2904 Feb 01 06:57	21° \approx 19'45	
	2903 Mar 14 20:20	0° \approx 00'		morning max el	2904 Feb 12 22:55	28° \approx 17'54	24°54'54
	2903 Apr 02 21:18	0° \approx 00'			2904 Feb 14 13:57	0° \approx 00'	
morning set	2903 Apr 07 17:38	8° \approx 00'47'52		desc. node	2904 Feb 18 04:52	4° \approx 09'07	
max. Earth dist.	2903 Apr 11 17:54	16° \approx 00'27'19	1.35138 AU		2904 Mar 07 14:11	0° \approx 00'	
				morning set	2904 Mar 20 02:10	20° \approx 00'52'40	
superior conj	2903 Apr 16 17:15	26° \approx 00'23'44	-0°58'04	max. Earth dist.	2904 Mar 23 17:35	27° \approx 00'28'39	1.36983 AU
minimum elong	2903 Apr 16 20:16	26° \approx 00'39'06	0°57'32		2904 Mar 25 02:10	0° \approx 00'	
	2903 Apr 18 11:23	0° \approx 00'					
asc. node	2903 Apr 22 14:01	8° \approx 00'31'52		superior conj	2904 Mar 30 04:17	9° \approx 00'44'58	-1°25'06
evening rise	2903 Apr 24 11:20	12° \approx 00'26'17		minimum elong	2904 Mar 30 08:29	10° \approx 00'05'31	1°24'30
	2903 May 03 16:02	0° \approx 00'		evening rise	2904 Apr 07 14:11	26° \approx 00'33'55	
evening max el	2903 May 13 00:56	12° \approx 00'36'06	20°34'28	asc. node	2904 Apr 08 11:02	28° \approx 00'18'05	
retrograde	2903 May 24 04:11	18° \approx 00'11'36			2904 Apr 09 07:33	0° \approx 00'	
evening set	2903 May 26 05:26	17° \approx 00'51'16		evening max el	2904 Apr 24 15:13	24° \approx 00'13'05	19°27'45
desc. node	2903 May 30 07:00	16° \approx 00'36'27		retrograde	2904 May 04 00:58	28° \approx 00'46'32	
inferior conj	2903 Jun 04 10:58	13° \approx 00'53'33	-1°30'44	evening set	2904 May 06 01:28	28° \approx 00'34'50	
minimum elong	2903 Jun 04 06:41	13° \approx 00'59'44	1°29'11	inferior conj	2904 May 14 15:17	24° \approx 00'29'07	0°26'38
min. Earth dist.	2903 Jun 05 15:44	13° \approx 00'12'02	0.54981 AU	minimum elong	2904 May 14 16:25	24° \approx 00'27'17	0°26'14
morning rise	2903 Jun 13 07:08	9° \approx 00'44'19		desc. node	2904 May 16 04:02	23° \approx 00'29'34	
direct	2903 Jun 16 23:49	9° \approx 00'14'53		min. Earth dist.	2904 May 17 06:11	22° \approx 00'47'54	0.55917 AU
morning max el	2903 Jun 30 07:24	15° \approx 00'41'00	23°15'52	morning rise	2904 May 23 04:30	19° \approx 00'47'28	
	2903 Jul 11 13:41	0° \approx 00'		direct	2904 May 27 19:22	18° \approx 00'59'06	
asc. node	2903 Jul 19 13:18	14° \approx 00'06'19'06		morning max el	2904 Jun 10 21:43	26° \approx 00'06'48	24°57'29
morning set	2903 Jul 23 12:57	22° \approx 00'06'28'31			2904 Jun 14 14:17	0° \approx 00'	
	2903 Jul 27 01:34	0° \approx 00'			2904 Jul 03 10:40	0° \approx 00'	
				asc. node	2904 Jul 05 10:19	4° \approx 00'02'33	
superior conj	2903 Jul 30 14:20	7° \approx 00'36'23	1°33'24	morning set	2904 Jul 07 00:43	7° \approx 00'23'27	
minimum elong	2903 Jul 30 12:19	7° \approx 00'25'32	1°33'13				
max. Earth dist.	2903 Aug 02 04:11	13° \approx 00'05'14	1.33650 AU	superior conj	2904 Jul 13 23:53	22° \approx 00'29'09	1°19'20
evening rise	2903 Aug 07 05:19	23° \approx 00'26'16		minimum elong	2904 Jul 13 21:31	22° \approx 00'16'14	1°19'00
	2903 Aug 10 14:23	0° \approx 00'		max. Earth dist.	2904 Jul 15 09:27	25° \approx 00'31'55	1.32739 AU
desc. node	2903 Aug 26 06:20	26° \approx 00'00'17'50			2904 Jul 17 11:13	0° \approx 00'	
	2903 Aug 28 20:35	0° \approx 00'		evening rise	2904 Jul 21 04:16	7° \approx 00'46'43	
evening max el	2903 Sep 10 09:58	14° \approx 00'55'45	27°19'48		2904 Aug 02 01:16	0° \approx 00'	
retrograde	2903 Sep 23 21:45	22° \approx 00'14'16		desc. node	2904 Aug 12 03:22	15° \approx 00'00'24'18	
evening set	2903 Sep 30 23:03	19° \approx 00'32'11		evening max el	2904 Aug 22 19:36	27° \approx 00'52'46	27°24'16
min. Earth dist.	2903 Oct 04 17:09	16° \approx 00'03'58	0.64461 AU		2904 Aug 25 04:53	0° \approx 00'	
inferior conj	2903 Oct 07 01:14	13° \approx 00'33'38	-2°44'36	retrograde	2904 Sep 05 13:54	5° \approx 00'09'14	
minimum elong	2903 Oct 07 05:42	13° \approx 00'21'39	2°42'59	evening set	2904 Sep 12 18:42	2° \approx 00'37'59	
morning rise	2903 Oct 13 13:28	8° \approx 00'07'00			2904 Sep 16 00:22	30° \approx 00'00'	
asc. node	2903 Oct 15 12:29	7° \approx 00'34'39		min. Earth dist.	2904 Sep 16 09:12	29° \approx 00'39'41	0.62745 AU
direct	2903 Oct 16 03:32	7° \approx 00'32'36		inferior conj	2904 Sep 19 05:13	26° \approx 00'56'22	-3°41'15
morning max el	2903 Oct 22 15:37	10° \approx 00'59'07	17°57'43	minimum elong	2904 Sep 19 10:45	26° \approx 00'43'03	3°39'40
	2903 Nov 04 15:59	0° \approx 00'		morning rise	2904 Sep 26 04:17	21° \approx 00'47'35	
morning set	2903 Nov 08 23:15	7° \approx 00'16'03		direct	2904 Sep 28 14:32	21° \approx 00'20'36	
				asc. node	2904 Oct 01 09:31	21° \approx 00'57'16	
superior conj	2903 Nov 22 08:29	29° \approx 00'16'24'57	-0°00'49	morning max el	2904 Oct 05 07:47	24° \approx 00'47'21	17°51'06
minimum elong	2903 Nov 22 08:24	29° \approx 00'16'24'35	0°00'48		2904 Oct 09 14:18	0° \approx 00'	
behind sun begin	2903 Nov 21 22:06	28° \approx 00'16'43'02		morning set	2904 Oct 21 11:25	19° \approx 00'53'39	
behind sun end	2903 Nov 22 18:42	0° \approx 00'00'06'04			2904 Oct 27 05:03	0° \approx 00'	
desc. node	2903 Nov 22 05:39	29° \approx 00'16'13'30					
	2903 Nov 22 17:12	0° \approx 00'		superior conj	2904 Nov 01 22:17	9° \approx 00'47'59	0°41'44
max. Earth dist.	2903 Nov 27 02:52	7° \approx 00'01'27	1.44706 AU	minimum elong	2904 Nov 02 02:02	10° \approx 00'16'03'45	0°41'13
evening rise	2903 Dec 08 13:59	24° \approx 00'00'53'53		desc. node	2904 Nov 08 02:41	20° \approx 00'16'01'06	
	2903 Dec 11 21:44	0° \approx 00'		max. Earth dist.	2904 Nov 08 18:33	21° \approx 00'05'17	1.43546 AU
greatest brilliancy	2903 Dec 23 01:19	16° \approx 00'38'25	-0.6m		2904 Nov 14 08:54	0° \approx 00'	
	2904 Jan 01 16:27	0° \approx 00'		evening rise	2904 Nov 16 23:17	4° \approx 00'03'19	
evening max el	2904 Jan 04 08:56	3° \approx 00'00'59	20°09'41		2904 Dec 04 08:37	0° \approx 00'	

evening max el	2904 Dec 17 07:44	16° ♁ 33'00	21°17'52	evening max el	2905 Nov 30 01:23	0° ♁ 06'39	22°34'41
retrograde	2904 Dec 26 01:05	21° ♁ 43'38		retrograde	2905 Dec 09 20:42	5° ♁ 56'08	
asc. node	2904 Dec 28 08:45	21° ♁ 14'01		evening set	2905 Dec 14 12:13	4° ♁ 02'58	
evening set	2904 Dec 30 04:47	20° ♁ 06'55		asc. node	2905 Dec 15 05:48	3° ♁ 23'54	
inferior conj	2905 Jan 04 13:16	13° ♁ 52'25	2°15'29		2905 Dec 18 04:16	30° ♁	
minimum elong	2905 Jan 04 10:49	14° ♁ 00'54	2°14'41	inferior conj	2905 Dec 19 20:52	27° ♁ 41'36	1°31'38
min. Earth dist.	2905 Jan 04 20:31	13° ♁ 27'24	0.67706 AU	minimum elong	2905 Dec 19 18:56	27° ♁ 48'16	1°30'53
morning rise	2905 Jan 09 16:39	7° ♁ 39'43		min. Earth dist.	2905 Dec 19 16:51	27° ♁ 55'30	0.67915 AU
direct	2905 Jan 14 21:12	5° ♁ 24'07		morning rise	2905 Dec 25 01:32	21° ♁ 31'42	
morning max el	2905 Jan 25 07:37	11° ♁ 36'45	23°26'45	direct	2905 Dec 29 15:15	19° ♁ 38'53	
desc. node	2905 Feb 04 01:54	23° ♁ 15'52		morning max el	2906 Jan 07 19:42	25° ♁ 02'23	21°59'34
	2905 Feb 08 23:37	0° ♁			2906 Jan 12 06:07	0° ♁	
	2905 Feb 28 09:51	0° ♁		desc. node	2906 Jan 21 22:57	12° ♁ 55'57	
morning set	2905 Mar 01 10:53	1° ♁ 45'11			2906 Feb 02 11:18	0° ♁	
max. Earth dist.	2905 Mar 05 12:17	8° ♁ 43'40	1.39110 AU	morning set	2906 Feb 09 14:49	11° ♁ 14'11	
				max. Earth dist.	2906 Feb 15 10:23	20° ♁ 46'14	1.41253 AU
					2906 Feb 20 20:16	0° ♁	
superior conj	2905 Mar 13 01:32	22° ♁ 22'46	-1°48'01	superior conj	2906 Feb 23 04:10	4° ♁ 05'01	-2°03'02
minimum elong	2905 Mar 13 05:56	22° ♁ 43'18	1°47'36	minimum elong	2906 Feb 23 06:47	4° ♁ 16'36	2°02'56
	2905 Mar 17 02:12	0° ♁		evening rise	2906 Mar 05 16:40	23° ♁ 15'47	
evening rise	2905 Mar 22 09:06	10° ♁ 13'13			2906 Mar 09 08:15	0° ♁	
asc. node	2905 Mar 26 08:04	17° ♁ 47'13		asc. node	2906 Mar 13 05:06	6° ♁ 52'57	
	2905 Apr 02 10:59	0° ♁		evening max el	2906 Mar 21 23:45	19° ♁ 13'33	18°14'18
evening max el	2905 Apr 07 15:54	6° ♁ 28'26	18°40'59	retrograde	2906 Mar 28 23:55	22° ♁ 44'11	
retrograde	2905 Apr 15 14:58	10° ♁ 22'00		evening set	2906 Mar 31 12:25	22° ♁ 17'47	
evening set	2905 Apr 17 21:11	10° ♁ 04'21		inferior conj	2906 Apr 07 12:23	17° ♁ 33'18	3°01'20
inferior conj	2905 Apr 25 15:12	5° ♁ 40'49	2°00'31	minimum elong	2906 Apr 07 15:43	17° ♁ 25'56	3°00'40
minimum elong	2905 Apr 25 18:56	5° ♁ 33'46	1°59'24	min. Earth dist.	2906 Apr 10 21:52	14° ♁ 35'31	0.59686 AU
min. Earth dist.	2905 Apr 28 23:30	3° ♁ 10'51	0.57601 AU	morning rise	2906 Apr 14 16:37	11° ♁ 51'49	
desc. node	2905 May 03 01:04	0° ♁ 40'13		desc. node	2906 Apr 19 22:06	10° ♁ 00'54	
morning rise	2905 May 03 13:31	0° ♁ 25'23		direct	2906 Apr 21 03:17	9° ♁ 56'51	
	2905 May 04 13:40	30° ♁		morning max el	2906 May 05 11:20	17° ♁ 45'44	27°26'03
direct	2905 May 09 05:03	29° ♁ 06'16			2906 May 15 15:56	0° ♁	
	2905 May 13 22:00	0° ♁			2906 Jun 02 09:50	0° ♁	
morning max el	2905 May 23 13:39	6° ♁ 40'13	26°25'35	morning set	2906 Jun 05 19:36	6° ♁ 55'36	
	2905 Jun 09 20:16	0° ♁		asc. node	2906 Jun 09 04:25	14° ♁ 04'38	
morning set	2905 Jun 21 11:30	22° ♁ 14'13					
asc. node	2905 Jun 22 07:21	23° ♁ 59'20		superior conj	2906 Jun 12 23:04	22° ♁ 20'07	0°38'55
	2905 Jun 25 02:13	0° ♁		minimum elong	2906 Jun 12 21:27	22° ♁ 11'08	0°38'35
superior conj	2905 Jun 28 11:23	7° ♁ 25'39	1°00'57	max. Earth dist.	2906 Jun 12 08:09	20° ♁ 57'58	1.32118 AU
minimum elong	2905 Jun 28 09:09	7° ♁ 13'24	1°00'33		2906 Jun 16 10:45	0° ♁	
max. Earth dist.	2905 Jun 28 19:59	8° ♁ 13'00	1.32234 AU	evening rise	2906 Jun 19 19:15	7° ♁ 13'52	
evening rise	2905 Jul 05 09:42	22° ♁ 25'08			2906 Jul 01 16:24	0° ♁	
	2905 Jul 09 02:55	0° ♁		desc. node	2906 Jul 16 21:23	20° ♁ 40'44	
	2905 Jul 27 03:50	0° ♁		evening max el	2906 Jul 17 22:16	21° ♁ 41'41	25°55'01
desc. node	2905 Jul 30 00:23	3° ♁ 38'54		retrograde	2906 Jul 31 21:55	28° ♁ 50'22	
evening max el	2905 Aug 05 00:27	10° ♁ 10'44	26°55'48	evening set	2906 Aug 07 03:12	27° ♁ 17'47	
retrograde	2905 Aug 18 22:26	17° ♁ 23'07		min. Earth dist.	2906 Aug 11 10:37	24° ♁ 40'59	0.58714 AU
evening set	2905 Aug 25 21:39	15° ♁ 15'45		inferior conj	2906 Aug 14 16:48	22° ♁ 17'57	-4°59'41
min. Earth dist.	2905 Aug 29 14:41	12° ♁ 36'27	0.60776 AU	minimum elong	2906 Aug 14 19:15	22° ♁ 13'26	4°59'31
inferior conj	2905 Sep 01 19:34	9° ♁ 54'14	-4°29'22	morning rise	2906 Aug 22 13:29	17° ♁ 53'15	
minimum elong	2905 Sep 02 00:47	9° ♁ 43'11	4°28'23	direct	2906 Aug 25 00:58	17° ♁ 33'05	
morning rise	2905 Sep 09 05:44	5° ♁ 06'25		morning max el	2906 Sep 02 04:13	21° ♁ 26'17	18°35'45
direct	2905 Sep 11 15:08	4° ♁ 43'55		asc. node	2906 Sep 05 03:38	24° ♁ 44'35	
asc. node	2905 Sep 18 06:34	7° ♁ 45'17			2906 Sep 08 19:59	0° ♁	
morning max el	2905 Sep 18 21:01	8° ♁ 19'03	18°03'20	morning set	2906 Sep 18 09:31	17° ♁ 19'37	
	2905 Oct 02 21:30	0° ♁			2906 Sep 24 23:04	0° ♁	
morning set	2905 Oct 04 16:30	3° ♁ 19'21					
				superior conj	2906 Sep 27 04:42	4° ♁ 13'07	1°33'26
superior conj	2905 Oct 14 14:30	21° ♁ 28'00	1°13'21	minimum elong	2906 Sep 27 07:41	4° ♁ 27'03	1°33'12
minimum elong	2905 Oct 14 18:47	21° ♁ 47'00	1°12'52	max. Earth dist.	2906 Oct 04 11:53	17° ♁ 26'05	1.39857 AU
	2905 Oct 19 12:07	0° ♁		evening rise	2906 Oct 08 15:30	24° ♁ 32'49	
max. Earth dist.	2905 Oct 22 05:36	4° ♁ 36'32	1.41859 AU		2906 Oct 11 22:37	0° ♁	
desc. node	2905 Oct 25 23:43	10° ♁ 47'35		desc. node	2906 Oct 12 20:45	1° ♁ 29'43	
evening rise	2905 Oct 27 20:24	13° ♁ 47'40			2906 Nov 01 03:24	0° ♁	
	2905 Nov 07 08:07	0° ♁		evening max el	2906 Nov 12 15:18	13° ♁ 43'19	23°54'36
	2905 Nov 29 22:46	0° ♁					

retrograde	2906 Nov 23 13:09	20° ♄ 08'39		desc. node	2907 Sep 29 17:46	22° ♄ 02'50	
evening set	2906 Nov 28 17:55	17° ♄ 58'47			2907 Oct 04 20:57	0° ♄	
asc. node	2906 Dec 02 02:51	14° ♄ 18'35		evening max el	2907 Oct 26 03:27	27° ♄ 22'47	25°11'09
min. Earth dist.	2906 Dec 03 13:20	12° ♄ 24'23	0.67773 AU		2907 Oct 29 00:32	0° ♄	
inferior conj	2906 Dec 04 04:05	11° ♄ 34'19	0°41'51	retrograde	2907 Nov 07 01:27	4° ♄ 16'22	
minimum elong	2906 Dec 04 03:06	11° ♄ 37'39	0°41'26	evening set	2907 Nov 12 20:13	1° ♄ 51'08	
morning rise	2906 Dec 09 12:17	5° ♄ 29'13			2907 Nov 14 17:30	30° ♄	
direct	2906 Dec 13 12:07	3° ♄ 59'03		min. Earth dist.	2907 Nov 17 07:40	26° ♄ 51'02	0.67286 AU
morning max el	2906 Dec 21 14:32	8° ♄ 39'01	20°40'40	inferior conj	2907 Nov 18 09:09	25° ♄ 27'55	-0°12'41
	2907 Jan 06 19:18	0° ♄		minimum elong	2907 Nov 18 09:28	25° ♄ 26'53	0°12'32
desc. node	2907 Jan 08 20:00	3° ♄ 00'14		transit middle	2907 Nov 18 09:28	25° ♄ 26'53	0°12'32
morning set	2907 Jan 19 17:41	19° ♄ 36'12		transit begin	2907 Nov 18 07:43	25° ♄ 32'37	
	2907 Jan 26 07:57	0° ♄		transit end	2907 Nov 18 11:14	25° ♄ 21'09	
max. Earth dist.	2907 Jan 28 16:01	3° ♄ 45'30	1.43115 AU	asc. node	2907 Nov 18 23:54	24° ♄ 40'02	
				morning rise	2907 Nov 23 22:57	19° ♄ 29'48	
superior conj	2907 Feb 04 07:03	14° ♄ 40'16	-2°05'12	direct	2907 Nov 27 10:28	18° ♄ 19'56	
minimum elong	2907 Feb 04 05:07	14° ♄ 32'14	2°05'10	morning max el	2907 Dec 04 17:16	22° ♄ 26'32	19°34'39
	2907 Feb 13 05:13	0° ♄			2907 Dec 10 23:22	0° ♄	
evening rise	2907 Feb 16 08:51	5° ♄ 33'19		greatest brilliancy	2907 Dec 17 21:49	9° ♄ 58'29	-0.7m
asc. node	2907 Feb 28 02:09	25° ♄ 27'47		desc. node	2907 Dec 26 17:03	23° ♄ 21'49	
	2907 Mar 03 09:21	0° ♄		morning set	2907 Dec 29 14:45	27° ♄ 50'38	
evening max el	2907 Mar 05 11:27	2° ♄ 19'34	18°07'15		2907 Dec 31 00:11	0° ♄	
retrograde	2907 Mar 12 00:14	5° ♄ 42'49		max. Earth dist.	2908 Jan 11 04:27	17° ♄ 29'33	1.44458 AU
evening set	2907 Mar 14 18:17	5° ♄ 06'13					
inferior conj	2907 Mar 21 04:02	0° ♄ 01'11	3°32'22	superior conj	2908 Jan 15 07:50	24° ♄ 05'44	-1°49'40
minimum elong	2907 Mar 21 05:37	29° ♄ 57'09	3°32'14	minimum elong	2908 Jan 15 00:21	23° ♄ 35'44	1°49'07
	2907 Mar 21 04:30	30° ♄			2908 Jan 18 23:32	0° ♄	
min. Earth dist.	2907 Mar 24 04:04	27° ♄ 00'19	0.61836 AU	evening rise	2908 Jan 29 05:16	16° ♄ 55'38	
morning rise	2907 Mar 27 15:27	24° ♄ 03'14			2908 Feb 05 23:56	0° ♄	
direct	2907 Apr 03 12:03	21° ♄ 36'44		asc. node	2908 Feb 14 23:11	13° ♄ 22'20	
desc. node	2907 Apr 06 19:09	22° ♄ 07'38		evening max el	2908 Feb 17 00:05	15° ♄ 39'09	18°19'13
morning max el	2907 Apr 17 15:26	29° ♄ 33'22	27°50'24	retrograde	2908 Feb 23 11:12	19° ♄ 08'20	
	2907 Apr 18 02:02	0° ♄		evening set	2908 Feb 26 10:43	18° ♄ 20'33	
	2907 May 09 14:43	0° ♄		inferior conj	2908 Mar 03 10:02	12° ♄ 56'27	3°40'23
morning set	2907 May 20 23:00	21° ♄ 20'05		minimum elong	2908 Mar 03 09:48	12° ♄ 57'05	3°40'23
	2907 May 25 02:25	0° ♄		min. Earth dist.	2908 Mar 05 19:41	10° ♄ 13'59	0.63796 AU
max. Earth dist.	2907 May 26 17:50	3° ♄ 31'57	1.32399 AU	morning rise	2908 Mar 09 08:05	6° ♄ 49'34	
asc. node	2907 May 27 01:26	4° ♄ 13'10		direct	2908 Mar 16 05:28	4° ♄ 03'16	
				desc. node	2908 Mar 23 16:12	6° ♄ 41'05	
superior conj	2907 May 28 09:12	7° ♄ 05'51	0°13'55	morning max el	2908 Mar 29 23:47	11° ♄ 59'31	27°37'31
minimum elong	2907 May 28 08:33	7° ♄ 02'20	0°13'46		2908 Apr 13 07:38	0° ♄	
behind sun begin	2907 May 28 05:58	6° ♄ 48'16			2908 May 01 01:35	0° ♄	
behind sun end	2907 May 28 11:08	7° ♄ 16'24		morning set	2908 May 03 19:17	5° ♄ 20'14	
evening rise	2907 Jun 04 06:47	22° ♄ 04'52		max. Earth dist.	2908 May 08 20:57	15° ♄ 41'58	1.33104 AU
	2907 Jun 08 02:34	0° ♄					
	2907 Jun 27 03:36	0° ♄		superior conj	2908 May 11 15:58	21° ♄ 37'20	-0°13'20
evening max el	2907 Jun 29 13:16	2° ♄ 28'37	24°29'31	minimum elong	2908 May 11 16:38	21° ♄ 40'52	0°13'12
desc. node	2907 Jul 03 18:25	5° ♄ 59'45		behind sun begin	2908 May 11 13:36	21° ♄ 24'40	
retrograde	2907 Jul 13 10:36	9° ♄ 29'51		behind sun end	2908 May 11 19:39	21° ♄ 57'05	
evening set	2907 Jul 18 08:48	8° ♄ 35'25		asc. node	2908 May 12 22:29	24° ♄ 21'07	
min. Earth dist.	2907 Jul 24 00:14	5° ♄ 42'40	0.56819 AU		2908 May 15 13:22	0° ♄	
inferior conj	2907 Jul 26 18:01	3° ♄ 57'45	-4°58'41	evening rise	2908 May 18 18:29	6° ♄ 52'08	
minimum elong	2907 Jul 26 15:10	4° ♄ 02'20	4°58'29		2908 May 31 01:14	0° ♄	
	2907 Aug 03 15:05	30° ♄		evening max el	2908 Jun 10 02:56	12° ♄ 55'24	22°53'15
morning rise	2907 Aug 04 00:12	29° ♄ 54'16		desc. node	2908 Jun 19 15:24	19° ♄ 00'38	
direct	2907 Aug 06 15:51	29° ♄ 35'07		retrograde	2908 Jun 23 10:54	19° ♄ 33'51	
	2907 Aug 09 14:12	0° ♄		evening set	2908 Jun 26 20:46	19° ♄ 08'20	
morning max el	2907 Aug 16 02:13	3° ♄ 58'39	19°29'30	min. Earth dist.	2908 Jul 04 11:41	15° ♄ 45'33	0.55436 AU
asc. node	2907 Aug 23 00:42	12° ♄ 39'18		inferior conj	2908 Jul 06 00:04	14° ♄ 53'05	-4°12'14
	2907 Sep 01 14:03	0° ♄		minimum elong	2908 Jul 05 16:26	15° ♄ 04'07	4°10'34
morning set	2907 Sep 02 10:44	1° ♄ 43'20		morning rise	2908 Jul 14 14:27	11° ♄ 01'09	
				direct	2908 Jul 17 12:05	10° ♄ 41'25	
superior conj	2907 Sep 10 11:15	17° ♄ 46'35	1°43'20	morning max el	2908 Jul 28 12:52	15° ♄ 48'28	20°44'27
minimum elong	2907 Sep 10 12:25	17° ♄ 52'22	1°43'16		2908 Aug 08 04:01	0° ♄	
max. Earth dist.	2907 Sep 16 15:52	29° ♄ 35'10	1.37793 AU	asc. node	2908 Aug 08 21:44	1° ♄ 16'44	
	2907 Sep 16 21:15	0° ♄		morning set	2908 Aug 16 17:27	16° ♄ 23'23	
evening rise	2907 Sep 20 10:02	6° ♄ 22'51			2908 Aug 23 07:03	0° ♄	

superior conj	2908 Aug 24 05:27	1° \mathbb{M} 54'56	1°44'44	superior conj	2909 Aug 08 07:44	16° Ω 27'28	1°39'13
minimum elong	2908 Aug 24 05:01	1° \mathbb{M} 52'42	1°44'43	minimum elong	2909 Aug 08 06:08	16° Ω 19'02	1°39'07
max. Earth dist.	2908 Aug 28 23:24	11° \mathbb{M} 25'31	1.35911 AU	max. Earth dist.	2909 Aug 11 15:29	23° Ω 23'37	1.34364 AU
evening rise	2908 Sep 02 00:48	19° \mathbb{M} 10'23			2909 Aug 14 21:58	0° \mathbb{M}	
	2908 Sep 08 01:50	0° Ω		evening rise	2909 Aug 16 07:15	2° \mathbb{M} 43'27	
desc. node	2908 Sep 15 14:46	12° Ω 21'58			2909 Aug 31 22:51	0° Ω	
	2908 Sep 27 23:19	0° \mathbb{M}		desc. node	2909 Sep 02 11:45	2° Ω 20'44	
evening max el	2908 Oct 07 15:38	11° \mathbb{M} 02'52	26°16'49	evening max el	2909 Sep 20 04:09	24° Ω 36'37	27°03'58
retrograde	2908 Oct 20 08:50	18° \mathbb{M} 13'31			2909 Sep 27 03:05	0° \mathbb{M}	
evening set	2908 Oct 26 17:15	15° \mathbb{M} 36'34		retrograde	2909 Oct 03 10:35	1° \mathbb{M} 53'46	
min. Earth dist.	2908 Oct 30 21:29	11° \mathbb{M} 12'03	0.66462 AU		2909 Oct 09 04:17	30° \mathbb{R} Ω	
inferior conj	2908 Nov 01 10:12	9° \mathbb{M} 19'16	-1°10'41	evening set	2909 Oct 10 06:47	29° Ω 11'18	
minimum elong	2908 Nov 01 12:06	9° \mathbb{M} 13'27	1°09'52	min. Earth dist.	2909 Oct 14 04:25	25° Ω 22'51	0.65292 AU
asc. node	2908 Nov 04 20:57	5° \mathbb{M} 24'59		inferior conj	2909 Oct 16 05:09	23° Ω 04'44	-2°10'22
morning rise	2908 Nov 07 07:27	3° \mathbb{M} 30'45		minimum elong	2909 Oct 16 08:44	22° Ω 54'36	2°08'58
direct	2908 Nov 10 08:48	2° \mathbb{M} 37'37		morning rise	2909 Oct 22 11:30	17° Ω 28'54	
morning max el	2908 Nov 17 02:53	6° \mathbb{M} 21'19	18°43'52	asc. node	2909 Oct 22 18:00	17° Ω 21'23	
	2908 Dec 03 18:30	0° \mathbb{X}		direct	2909 Oct 25 05:02	16° Ω 48'38	
morning set	2908 Dec 08 06:20	7° \mathbb{X} 05'53		morning max el	2909 Oct 31 17:16	20° Ω 18'54	18°09'37
desc. node	2908 Dec 12 14:04	13° \mathbb{X} 55'15			2909 Nov 08 02:30	0° \mathbb{M}	
	2908 Dec 22 19:37	0° \mathbb{Z}		morning set	2909 Nov 19 03:15	17° \mathbb{M} 49'56	
max. Earth dist.	2908 Dec 23 21:34	1° \mathbb{Z} 41'52	1.45135 AU	desc. node	2909 Nov 26 14:13	0° \mathbb{X}	
					2909 Nov 29 11:05	4° \mathbb{X} 36'58	
superior conj	2908 Dec 24 12:56	2° \mathbb{Z} 42'13	-1°15'09	superior conj	2909 Dec 03 16:53	11° \mathbb{X} 22'20	-0°28'28
minimum elong	2908 Dec 24 04:18	2° \mathbb{Z} 08'18	1°14'10	minimum elong	2909 Dec 03 13:16	11° \mathbb{X} 07'59	0°27'59
evening rise	2909 Jan 09 02:34	27° \mathbb{Z} 23'31		max. Earth dist.	2909 Dec 06 16:55	16° \mathbb{X} 06'37	1.45078 AU
	2909 Jan 10 17:32	0° \approx			2909 Dec 15 14:08	0° \mathbb{Z}	
greatest brilliancy	2909 Jan 16 09:17	9° \approx 04'57	-0.9m	evening rise	2909 Dec 20 01:49	6° \mathbb{Z} 58'28	
evening max el	2909 Jan 30 11:03	29° \approx 05'44	18°49'19	greatest brilliancy	2910 Jan 01 16:24	26° \mathbb{Z} 22'47	-0.7m
	2909 Jan 31 09:25	0° \mathbb{X}			2910 Jan 04 02:44	0° \approx	
asc. node	2909 Jan 31 20:14	0° \mathbb{X} 24'04		evening max el	2910 Jan 13 18:16	12° \approx 35'39	19°36'05
retrograde	2909 Feb 06 04:43	2° \mathbb{X} 52'12		asc. node	2910 Jan 18 17:15	16° \approx 19'08	
evening set	2909 Feb 09 10:22	1° \mathbb{X} 52'11		retrograde	2910 Jan 21 01:43	16° \approx 49'12	
	2909 Feb 11 18:03	30° \mathbb{R} \approx		evening set	2910 Jan 24 14:42	15° \approx 35'47	
inferior conj	2909 Feb 15 02:29	26° \approx 10'48	3°31'19	inferior conj	2910 Jan 30 02:14	9° \approx 39'12	3°09'26
minimum elong	2909 Feb 15 00:54	26° \approx 15'40	3°31'08	minimum elong	2910 Jan 29 23:54	9° \approx 46'55	3°08'56
min. Earth dist.	2909 Feb 16 20:34	24° \approx 01'08	0.65414 AU	min. Earth dist.	2910 Jan 31 05:32	8° \approx 09'32	0.66625 AU
morning rise	2909 Feb 20 15:02	19° \approx 59'32		morning rise	2910 Feb 04 08:52	3° \approx 26'06	
direct	2909 Feb 27 05:52	17° \approx 07'59		direct	2910 Feb 10 12:08	0° \approx 42'13	
desc. node	2909 Mar 10 13:14	23° \approx 05'25		morning max el	2910 Feb 22 18:43	8° \approx 00'29	25°42'16
morning max el	2909 Mar 12 09:31	24° \approx 52'13	26°52'05	desc. node	2910 Feb 25 10:18	10° \approx 49'51	
	2909 Mar 17 01:24	0° \mathbb{X}			2910 Mar 11 23:38	0° \mathbb{X}	
	2909 Apr 06 18:23	0° \mathbb{Y}			2910 Mar 30 06:11	0° \mathbb{Y}	
morning set	2909 Apr 17 05:14	18° \mathbb{Y} 45'34		morning set	2910 Mar 31 00:34	1° \mathbb{Y} 23'45	
max. Earth dist.	2909 Apr 21 13:55	27° \mathbb{Y} 19'06	1.34265 AU	max. Earth dist.	2910 Apr 03 19:25	8° \mathbb{Y} 28'03	1.35882 AU
	2909 Apr 22 21:45	0° \mathbb{Z}					
superior conj	2909 Apr 25 17:14	5° \mathbb{Z} 47'36	-0°41'44	superior conj	2910 Apr 09 10:25	19° \mathbb{Y} 29'19	-1°09'51
minimum elong	2909 Apr 25 19:24	5° \mathbb{Z} 58'50	0°41'18	minimum elong	2910 Apr 09 14:00	19° \mathbb{Y} 47'18	1°09'15
asc. node	2909 Apr 29 19:31	14° \mathbb{Z} 23'57			2910 Apr 14 14:18	0° \mathbb{Z}	
evening rise	2909 May 03 04:25	21° \mathbb{Z} 29'04		asc. node	2910 Apr 16 16:32	4° \mathbb{Z} 17'36	
	2909 May 07 09:04	0° \mathbb{I}		evening rise	2910 Apr 17 10:33	5° \mathbb{Z} 49'31	
evening max el	2909 May 22 23:04	23° \mathbb{I} 34'17	21°21'11		2910 May 01 02:53	0° \mathbb{I}	
retrograde	2909 Jun 04 00:56	29° \mathbb{I} 29'19		evening max el	2910 May 05 06:29	4° \mathbb{I} 47'40	20°03'40
evening set	2909 Jun 06 09:01	29° \mathbb{I} 16'48		retrograde	2910 May 15 15:27	9° \mathbb{I} 49'45	
desc. node	2909 Jun 06 12:25	29° \mathbb{I} 15'16		evening set	2910 May 17 15:18	9° \mathbb{I} 39'24	
inferior conj	2909 Jun 15 18:30	25° \mathbb{I} 17'32	-2°38'23	desc. node	2910 May 24 09:27	6° \mathbb{I} 58'34	
minimum elong	2909 Jun 15 11:25	25° \mathbb{I} 27'27	2°36'02	inferior conj	2910 May 26 15:10	5° \mathbb{I} 39'53	-0°39'28
min. Earth dist.	2909 Jun 15 23:19	25° \mathbb{I} 10'47	0.54874 AU	minimum elong	2910 May 26 13:20	5° \mathbb{I} 42'38	0°38'47
morning rise	2909 Jun 24 14:20	21° \mathbb{I} 20'15		min. Earth dist.	2910 May 28 12:10	4° \mathbb{I} 32'32	0.55277 AU
direct	2909 Jun 27 22:17	20° \mathbb{I} 56'10		morning rise	2910 Jun 04 09:36	1° \mathbb{I} 18'26	
morning max el	2909 Jul 10 12:16	26° \mathbb{I} 54'04	22°17'22	direct	2910 Jun 08 11:13	0° \mathbb{I} 42'21	
	2909 Jul 13 12:19	0° \mathbb{Z}		morning max el	2910 Jun 22 04:04	7° \mathbb{I} 27'08	23°59'45
asc. node	2909 Jul 26 18:46	20° \mathbb{Z} 26'26			2910 Jul 08 10:31	0° \mathbb{Z}	
	2909 Jul 31 13:23	0° Ω		asc. node	2910 Jul 13 15:48	9° \mathbb{Z} 59'39	
morning set	2909 Aug 01 03:34	1° Ω 13'54		morning set	2910 Jul 16 15:13	16° \mathbb{Z} 08'57	
					2910 Jul 23 01:27	0° Ω	

superior conj	2910 Jul 23 15:17	1°♎14'53	1°28'00	minimum elong	2911 Jul 07 23:33	15°♊57'29	1°11'40
minimum elong	2910 Jul 23 13:03	1°♎02'48	1°27'45	max. Earth dist.	2911 Jul 09 00:48	18°♊15'45	1.32477 AU
max. Earth dist.	2910 Jul 25 16:41	5°♎40'37	1.33216 AU		2911 Jul 14 12:04	0°♎	
evening rise	2910 Jul 31 01:10	16°♎49'30		evening rise	2911 Jul 15 03:14	1°♎18'55	
	2910 Aug 06 21:54	0°♎			2911 Jul 30 20:48	0°♎	
desc. node	2910 Aug 20 08:46	21°♎49'44		desc. node	2911 Aug 07 05:47	10°♎36'31	
	2910 Aug 26 12:01	0°♎		evening max el	2911 Aug 15 23:20	20°♎32'14	27°16'07
evening max el	2910 Sep 02 15:31	7°♎50'49	27°25'34	retrograde	2911 Aug 29 19:07	27°♎46'57	
retrograde	2910 Sep 16 06:10	15°♎07'58		evening set	2911 Sep 05 23:06	25°♎23'55	
evening set	2910 Sep 23 09:58	12°♎29'10		min. Earth dist.	2911 Sep 09 13:30	22°♎35'45	0.61939 AU
min. Earth dist.	2910 Sep 27 02:12	9°♎14'36	0.63773 AU	inferior conj	2911 Sep 12 14:03	19°♎50'45	-4°03'09
inferior conj	2910 Sep 29 15:27	6°♎37'40	-3°09'14	minimum elong	2911 Sep 12 19:41	19°♎37'55	4°01'45
minimum elong	2910 Sep 29 20:28	6°♎24'46	3°07'34	morning rise	2911 Sep 19 17:54	14°♎50'49	
morning rise	2910 Oct 06 08:11	1°♎18'06		direct	2911 Sep 22 03:29	14°♎26'01	
direct	2910 Oct 08 20:26	0°♎47'06		asc. node	2911 Sep 26 12:04	15°♎50'39	
asc. node	2910 Oct 09 15:02	0°♎50'06		morning max el	2911 Sep 29 01:00	17°♎54'52	17°53'56
morning max el	2910 Oct 15 09:38	4°♎12'26	17°52'42		2911 Oct 07 16:54	0°♎	
morning set	2910 Nov 01 02:52	29°♎51'29		morning set	2911 Oct 14 22:53	12°♎51'10	
	2910 Nov 01 04:50	0°♎			2911 Oct 24 13:48	0°♎	
superior conj	2910 Nov 13 15:24	20°♎59'44	0°18'23	superior conj	2911 Oct 25 16:47	1°♎56'37	0°56'35
minimum elong	2910 Nov 13 17:22	21°♎07'49	0°18'07	minimum elong	2911 Oct 25 21:06	2°♎15'07	0°56'02
desc. node	2910 Nov 16 08:06	25°♎23'03		max. Earth dist.	2911 Nov 02 01:06	14°♎16'12	1.42883 AU
	2910 Nov 19 05:02	0°♎		desc. node	2911 Nov 03 05:07	16°♎10'21	
max. Earth dist.	2910 Nov 19 11:07	0°♎24'17	1.44294 AU	evening rise	2911 Nov 09 00:13	25°♎25'02	
evening rise	2910 Nov 29 11:45	16°♎05'50			2911 Nov 11 22:55	0°♎	
	2910 Dec 08 15:25	0°♎			2911 Dec 02 15:05	0°♎	
evening max el	2910 Dec 27 20:15	26°♎06'24	20°37'20	evening max el	2911 Dec 10 16:37	9°♎38'05	21°49'44
	2911 Jan 01 16:35	0°♎		retrograde	2911 Dec 19 20:49	15°♎05'45	
retrograde	2911 Jan 04 23:44	0°♎54'52		asc. node	2911 Dec 23 11:20	13°♎55'04	
asc. node	2911 Jan 05 14:18	0°♎52'50		evening set	2911 Dec 24 05:21	13°♎21'59	
	2911 Jan 08 02:01	30°♎3		inferior conj	2911 Dec 29 13:42	7°♎03'49	1°57'40
evening set	2911 Jan 08 21:38	29°♎26'49		minimum elong	2911 Dec 29 11:25	7°♎11'44	1°56'52
inferior conj	2911 Jan 14 06:42	23°♎17'45	2°37'34	min. Earth dist.	2911 Dec 29 15:58	6°♎55'56	0.67835 AU
minimum elong	2911 Jan 14 04:08	23°♎26'31	2°36'50	morning rise	2912 Jan 03 17:20	0°♎52'02	
min. Earth dist.	2911 Jan 14 20:46	22°♎29'42	0.67422 AU		2912 Jan 04 20:31	30°♎	
morning rise	2911 Jan 19 10:28	17°♎04'32		direct	2912 Jan 08 15:23	28°♎46'14	
direct	2911 Jan 24 23:31	14°♎37'17			2912 Jan 12 19:06	0°♎	
morning max el	2911 Feb 05 03:13	21°♎16'32	24°17'56	morning max el	2912 Jan 18 13:04	4°♎38'12	22°49'03
desc. node	2911 Feb 12 07:20	29°♎31'13		desc. node	2912 Jan 30 04:23	18°♎53'11	
	2911 Feb 12 16:25	0°♎			2912 Feb 06 23:11	0°♎	
	2911 Mar 05 05:51	0°♎		morning set	2912 Feb 21 20:37	23°♎17'03	
morning set	2911 Mar 12 23:46	12°♎59'40			2912 Feb 25 20:40	0°♎	
max. Earth dist.	2911 Mar 16 16:32	19°♎32'43	1.37867 AU	max. Earth dist.	2912 Feb 26 11:53	1°♎05'01	1.40029 AU
	2911 Mar 22 08:01	0°♎					
superior conj	2911 Mar 23 16:09	2°♎33'26	-1°35'31	superior conj	2912 Mar 05 06:04	14°♎48'26	-1°55'38
minimum elong	2911 Mar 23 20:36	2°♎54'50	1°34'58	minimum elong	2912 Mar 05 10:01	15°♎06'29	1°55'21
evening rise	2911 Apr 01 10:27	19°♎46'28			2912 Mar 13 08:53	0°♎	
asc. node	2911 Apr 03 13:35	23°♎57'30		evening rise	2912 Mar 15 01:01	3°♎11'01	
	2911 Apr 06 17:42	0°♎		asc. node	2912 Mar 20 10:39	13°♎17'26	
evening max el	2911 Apr 18 01:29	16°♎41'40	19°05'22	evening max el	2912 Mar 31 05:34	29°♎10'17	18°27'14
retrograde	2911 Apr 26 19:18	20°♎56'43			2912 Apr 01 03:13	0°♎	
evening set	2911 Apr 28 21:53	20°♎42'54		retrograde	2912 Apr 07 17:40	2°♎52'27	
inferior conj	2911 May 07 03:16	16°♎29'54	1°10'18	evening set	2912 Apr 10 02:27	2°♎31'28	
minimum elong	2911 May 07 05:56	16°♎25'18	1°09'23		2912 Apr 14 21:41	30°♎	
min. Earth dist.	2911 May 10 03:31	14°♎26'16	0.56556 AU	inferior conj	2912 Apr 17 12:24	27°♎59'17	2°30'18
desc. node	2911 May 11 06:30	13°♎42'53		minimum elong	2912 Apr 17 16:14	27°♎51'31	2°29'18
morning rise	2911 May 15 10:54	11°♎33'25		min. Earth dist.	2912 Apr 20 22:55	25°♎14'17	0.58449 AU
direct	2911 May 20 12:11	10°♎33'33		morning rise	2912 Apr 25 03:02	22°♎31'08	
morning max el	2911 Jun 03 18:36	17°♎53'41	25°37'37	desc. node	2912 Apr 27 03:33	21°♎38'43	
	2911 Jun 13 19:22	0°♎		direct	2912 May 01 03:30	20°♎56'52	
asc. node	2911 Jun 30 12:50	29°♎49'55		morning max el	2912 May 15 12:56	28°♎39'12	26°55'24
	2911 Jun 30 14:46	0°♎			2912 May 16 20:57	0°♎	
morning set	2911 Jul 01 02:50	1°♎03'32			2912 Jun 06 11:45	0°♎	
				morning set	2912 Jun 14 12:41	15°♎51'04	
				asc. node	2912 Jun 16 09:54	19°♎50'53	
superior conj	2911 Jul 08 01:55	16°♎10'27	1°12'02		2912 Jun 21 01:36	0°♎	

superior conj	2912 Jun 21 13:43	1°☿06'49	0°52'02	superior conj	2913 Jun 06 00:57	15°♊58'03	0°28'39
minimum elong	2912 Jun 21 11:42	0°☿55'39	0°51'38	minimum elong	2913 Jun 05 23:41	15°♊51'09	0°28'22
max. Earth dist.	2912 Jun 21 12:21	0°☿59'18	1.32133 AU		2913 Jun 12 11:25	0°☿	
evening rise	2912 Jun 28 10:40	16°☿02'17		evening rise	2913 Jun 12 21:16	0°☿52'22	
	2912 Jul 05 10:23	0°♊			2913 Jun 28 18:23	0°♊	
desc. node	2912 Jul 24 02:49	28°♊23'15		evening max el	2913 Jul 09 19:48	13°♊40'39	25°21'02
	2912 Jul 25 13:50	0°♊		desc. node	2913 Jul 10 23:50	14°♊45'21	
evening max el	2912 Jul 28 01:07	2°♊29'48	26°33'32	retrograde	2913 Jul 23 19:41	20°♊47'11	
retrograde	2912 Aug 11 00:21	9°♊41'32		evening set	2913 Jul 29 12:50	19°♊31'29	
evening set	2912 Aug 17 17:33	7°♊47'40		min. Earth dist.	2913 Aug 03 07:44	16°♊49'38	0.57865 AU
min. Earth dist.	2912 Aug 21 14:41	5°♊11'42	0.59897 AU	inferior conj	2913 Aug 06 10:25	14°♊40'48	-5°04'03
inferior conj	2912 Aug 24 21:30	2°♊34'56	-4°45'09	minimum elong	2913 Aug 06 10:51	14°♊40'04	5°04'03
minimum elong	2912 Aug 25 01:54	2°♊26'09	4°44'31	morning rise	2913 Aug 14 11:16	10°♊25'24	
	2912 Aug 28 08:23	30°♋♊		direct	2913 Aug 17 00:09	10°♊05'52	
morning rise	2912 Sep 01 12:19	27°♊57'08		morning max el	2913 Aug 25 15:44	14°♊10'55	18°55'55
direct	2912 Sep 03 22:07	27°♊35'59		asc. node	2913 Aug 30 06:11	19°♊35'11	
	2912 Sep 10 00:39	0°♊			2913 Sep 05 15:38	0°♊	
morning max el	2912 Sep 11 12:08	1°♊17'34	18°14'34	morning set	2913 Sep 11 06:26	10°♊43'53	
asc. node	2912 Sep 12 09:07	2°♊10'44					
morning set	2912 Sep 27 09:32	26°♊32'43		superior conj	2913 Sep 19 16:47	27°♊13'28	1°38'46
	2912 Sep 29 05:18	0°♊		minimum elong	2913 Sep 19 19:01	27°♊24'06	1°38'38
					2913 Sep 21 03:51	0°♊	
superior conj	2912 Oct 06 19:04	14°♊06'23	1°23'13	max. Earth dist.	2913 Sep 26 13:57	9°♊58'00	1.38972 AU
minimum elong	2912 Oct 06 22:55	14°♊23'54	1°22'49	evening rise	2913 Sep 30 11:14	16°♊46'47	
max. Earth dist.	2912 Oct 14 09:26	27°♊28'09	1.41028 AU	desc. node	2913 Oct 06 23:09	27°♊34'20	
	2912 Oct 15 21:23	0°♋			2913 Oct 08 11:41	0°♋	
evening rise	2912 Oct 19 05:57	5°♋33'23			2913 Oct 29 17:05	0°♋	
desc. node	2912 Oct 20 02:09	6°♋55'30		evening max el	2913 Nov 04 21:22	6°♋51'10	24°28'08
	2912 Nov 04 04:16	0°♋		retrograde	2913 Nov 16 06:04	13°♋29'31	
evening max el	2912 Nov 22 08:20	23°♋12'43	23°08'42	evening set	2913 Nov 21 16:40	11°♋13'09	
retrograde	2912 Dec 02 15:22	29°♋18'49		asc. node	2913 Nov 26 05:25	6°♋03'50	
evening set	2912 Dec 07 12:14	27°♋18'39		min. Earth dist.	2913 Nov 26 08:41	5°♋53'00	0.67607 AU
asc. node	2912 Dec 09 08:22	25°♋29'54		inferior conj	2913 Nov 27 03:52	4°♋48'47	0°19'13
inferior conj	2912 Dec 12 21:21	20°♋55'17	1°11'10	minimum elong	2913 Nov 27 03:24	4°♋50'22	0°19'02
minimum elong	2912 Dec 12 19:47	21°♋00'41	1°10'33		2913 Dec 01 03:31	30°♋♋	
min. Earth dist.	2912 Dec 12 12:46	21°♋24'51	0.67891 AU	morning rise	2913 Dec 02 14:11	28°♋46'08	
morning rise	2912 Dec 18 03:15	14°♋46'54		direct	2913 Dec 06 08:37	27°♋24'47	
direct	2912 Dec 22 10:50	13°♋03'53			2913 Dec 12 02:09	0°♋	
morning max el	2912 Dec 31 03:42	18°♋08'24	21°24'36	morning max el	2913 Dec 14 01:43	1°♋49'11	20°10'45
	2913 Jan 09 20:45	0°♋		desc. node	2914 Jan 02 22:26	28°♋56'58	
desc. node	2913 Jan 16 01:26	8°♋44'43			2914 Jan 03 15:06	0°♋	
	2913 Jan 30 02:44	0°♋		morning set	2914 Jan 10 09:41	10°♋22'05	
morning set	2913 Jan 31 12:36	2°♋13'20		max. Earth dist.	2914 Jan 20 21:00	26°♋49'38	1.43767 AU
max. Earth dist.	2913 Feb 07 12:22	13°♋29'45	1.42091 AU		2914 Jan 22 20:21	0°♋	
superior conj	2913 Feb 14 23:10	26°♋03'31	-2°05'50	superior conj	2914 Jan 26 14:53	6°♋08'35	-2°01'00
minimum elong	2913 Feb 15 00:12	26°♋07'55	2°05'50	minimum elong	2914 Jan 26 10:27	5°♋50'26	2°00'48
	2913 Feb 17 05:32	0°♋		evening rise	2914 Feb 08 10:46	27°♋50'34	
evening rise	2913 Feb 26 02:35	15°♋55'24			2914 Feb 09 16:39	0°♋	
	2913 Mar 06 00:09	0°♋		asc. node	2914 Feb 22 04:43	20°♋29'58	
asc. node	2913 Mar 07 07:42	2°♋11'06		evening max el	2914 Feb 26 03:57	25°♋18'14	18°10'04
evening max el	2913 Mar 14 15:29	12°♋05'28	18°08'58	retrograde	2914 Mar 04 14:43	28°♋42'05	
retrograde	2913 Mar 21 09:30	15°♋30'58		evening set	2914 Mar 07 11:12	28°♋00'41	
evening set	2913 Mar 24 00:24	15°♋00'26		inferior conj	2914 Mar 13 16:04	22°♋47'23	3°38'09
inferior conj	2913 Mar 30 17:52	10°♋07'25	3°17'41	minimum elong	2914 Mar 13 16:52	22°♋45'17	3°38'08
minimum elong	2913 Mar 30 20:33	10°♋01'10	3°17'17	min. Earth dist.	2914 Mar 16 10:21	19°♋52'14	0.62713 AU
min. Earth dist.	2913 Apr 03 00:28	7°♋05'03	0.60612 AU	morning rise	2914 Mar 19 21:22	16°♋45'14	
morning rise	2913 Apr 06 14:37	4°♋17'52		direct	2914 Mar 26 19:31	14°♋08'35	
direct	2913 Apr 13 06:54	2°♋07'59		desc. node	2914 Mar 31 21:38	15°♋22'27	
desc. node	2913 Apr 14 00:36	2°♋09'30		morning max el	2914 Apr 09 19:14	22°♋05'25	27°49'16
morning max el	2913 Apr 27 13:17	10°♋01'31	27°40'57		2914 Apr 16 17:55	0°♋	
	2913 May 13 00:25	0°♋			2914 May 06 03:51	0°♋	
morning set	2913 May 29 19:01	0°♊25'35		morning set	2914 May 13 19:42	14°♋40'28	
	2913 May 29 14:04	0°♊		max. Earth dist.	2914 May 19 07:02	26°♋04'42	1.32645 AU
asc. node	2913 Jun 03 06:57	9°♊57'53					
max. Earth dist.	2913 Jun 04 23:41	13°♊39'37	1.32184 AU	superior conj	2914 May 21 09:53	0°♊38'31	0°02'35
				minimum elong	2914 May 21 09:45	0°♊37'51	0°02'34

behind sun begin	2914 May 21 04:36	0° Π 09'57		max. Earth dist.	2915 May 02 06:26	8° δ 02'23	1.33544 AU
behind sun end	2914 May 21 14:55	1° Π 05'48					
asc. node	2914 May 21 04:00	0° Π 06'44		superior conj	2915 May 05 14:34	15° δ 01'37	-0°25'19
	2914 May 21 02:46	0° Π		minimum elong	2915 May 05 15:51	15° δ 08'25	0°25'03
evening rise	2914 May 28 09:06	15° Π 42'46		asc. node	2915 May 08 01:02	20° δ 13'00	
	2914 Jun 04 11:50	0° δ		evening rise	2915 May 12 20:17	0° Π 26'36	
evening max el	2914 Jun 21 09:35	24° δ 16'16	23°49'02		2915 May 12 15:14	0° Π	
desc. node	2914 Jun 27 20:51	29° δ 10'37			2915 May 29 19:21	0° δ	
	2914 Jun 29 14:07	0° δ		evening max el	2915 Jun 03 00:58	4° δ 43'44	22°12'45
retrograde	2914 Jul 05 02:44	1° δ 09'27		desc. node	2915 Jun 14 17:53	11° δ 03'05	
evening set	2914 Jul 09 09:23	0° δ 29'12		retrograde	2915 Jun 15 21:50	11° δ 06'12	
	2914 Jul 10 18:44	30° κ δ		evening set	2915 Jun 18 18:56	10° δ 47'49	
min. Earth dist.	2914 Jul 15 19:57	27° δ 25'23	0.56147 AU	min. Earth dist.	2915 Jun 27 06:53	7° δ 08'41	0.55081 AU
inferior conj	2914 Jul 18 03:08	26° δ 01'45	-4°45'10	inferior conj	2915 Jun 28 02:46	6° δ 40'42	-3°37'28
minimum elong	2914 Jul 17 21:52	26° δ 09'47	4°44'27	minimum elong	2915 Jun 27 18:34	6° δ 52'15	3°35'14
morning rise	2914 Jul 26 12:55	22° δ 04'40		morning rise	2915 Jul 06 20:04	2° δ 49'25	
direct	2914 Jul 29 07:05	21° δ 45'20		direct	2915 Jul 09 21:25	2° δ 28'30	
morning max el	2914 Aug 08 08:59	26° δ 25'54	19°58'53	morning max el	2915 Jul 21 14:35	7° δ 56'11	21°22'16
	2914 Aug 11 16:30	0° δ		asc. node	2915 Aug 04 00:16	26° δ 42'08	
asc. node	2914 Aug 17 03:14	7° δ 49'56			2915 Aug 05 18:36	0° δ	
morning set	2914 Aug 26 10:21	25° δ 16'16		morning set	2915 Aug 10 18:45	10° δ 01'42	
	2914 Aug 28 18:02	0° η					
superior conj	2914 Sep 03 04:50	11° η 03'48	1°44'51	superior conj	2915 Aug 18 02:53	25° δ 23'47	1°43'10
minimum elong	2914 Sep 03 05:17	11° η 06'03	1°44'51	minimum elong	2915 Aug 18 01:53	25° δ 18'39	1°43'08
max. Earth dist.	2914 Sep 08 19:17	21° η 58'53	1.36963 AU	max. Earth dist.	2915 Aug 20 08:33	0° η	
evening rise	2914 Sep 12 14:59	29° η 03'23		evening rise	2915 Aug 22 06:14	3° η 50'38	1.35204 AU
	2914 Sep 13 03:32	0° δ			2915 Aug 26 12:57	12° η 11'30	
desc. node	2914 Sep 23 20:10	18° δ 02'48		desc. node	2915 Sep 05 13:26	0° δ	
	2914 Oct 01 18:38	0° η			2915 Sep 10 17:11	8° δ 14'29	
evening max el	2914 Oct 18 09:36	20° η 32'34	25°40'50	evening max el	2915 Sep 26 21:48	0° η	
retrograde	2914 Oct 30 16:10	27° η 33'51		retrograde	2915 Sep 30 21:51	4° η 10'43	26°39'27
evening set	2914 Nov 05 16:56	25° η 03'07		evening set	2915 Oct 13 21:08	11° η 25'12	
min. Earth dist.	2914 Nov 10 01:19	20° η 18'07	0.66988 AU	min. Earth dist.	2915 Oct 20 11:05	8° η 44'39	
inferior conj	2914 Nov 11 07:28	18° η 42'07	-0°36'56	inferior conj	2915 Oct 24 12:20	4° η 35'52	0.66013 AU
minimum elong	2914 Nov 11 08:26	18° η 39'04	0°36'31	minimum elong	2915 Oct 26 06:11	2° η 31'28	-1°35'53
asc. node	2914 Nov 13 02:27	16° η 28'43			2915 Oct 26 08:48	2° η 23'43	1°34'49
morning rise	2914 Nov 17 00:13	12° η 47'48			2915 Oct 28 11:04	30° κ δ	
direct	2914 Nov 20 07:16	11° η 45'21		asc. node	2915 Oct 30 23:28	27° δ 39'42	
morning max el	2914 Nov 27 07:34	15° η 40'28	19°11'02	morning rise	2915 Nov 01 07:09	26° δ 48'16	
	2914 Dec 08 04:33	0° χ		direct	2915 Nov 04 04:54	26° δ 01'07	
morning set	2914 Dec 20 12:13	18° χ 56'07		morning max el	2915 Nov 10 19:37	29° δ 37'43	18°27'15
desc. node	2914 Dec 20 19:27	19° χ 24'14			2915 Nov 11 04:20	0° η	
	2914 Dec 27 14:34	0° δ		morning set	2915 Nov 30 16:01	28° η 49'13	
max. Earth dist.	2915 Jan 03 12:20	10° δ 50'01	1.44843 AU	desc. node	2915 Dec 01 09:39	0° χ	
					2915 Dec 07 16:28	10° χ 01'59	
superior conj	2915 Jan 06 05:39	15° δ 08'14	-1°37'07	superior conj	2915 Dec 16 07:34	23° χ 38'58	-0°56'07
minimum elong	2915 Jan 05 20:49	14° δ 33'14	1°36'18	minimum elong	2915 Dec 16 00:33	23° χ 11'24	0°55'15
	2915 Jan 15 11:59	0° \approx		max. Earth dist.	2915 Dec 17 06:57	25° χ 10'43	1.45202 AU
evening rise	2915 Jan 20 21:33	8° \approx 50'09			2915 Dec 20 08:43	0° δ	
	2915 Feb 02 23:39	0° χ		evening rise	2916 Jan 01 09:03	18° δ 53'26	
asc. node	2915 Feb 09 01:45	8° χ 03'35			2916 Jan 08 09:57	0° \approx	
evening max el	2915 Feb 09 16:08	8° χ 41'17	18°29'51	greatest brilliancy	2916 Jan 11 05:26	4° \approx 24'00	-0.8m
retrograde	2915 Feb 16 05:00	12° χ 16'26		evening max el	2916 Jan 24 01:40	22° \approx 09'40	19°07'14
evening set	2915 Feb 19 07:04	11° χ 23'24		asc. node	2916 Jan 26 22:46	24° \approx 39'08	
inferior conj	2915 Feb 25 02:56	5° χ 51'25	3°38'20	retrograde	2916 Jan 31 00:29	26° \approx 07'00	
minimum elong	2915 Feb 25 02:04	5° χ 53'58	3°38'17	evening set	2916 Feb 03 09:02	25° \approx 01'27	
min. Earth dist.	2915 Feb 27 05:48	3° χ 21'58	0.64535 AU	inferior conj	2916 Feb 08 22:53	19° \approx 13'04	3°23'26
morning rise	2915 Mar 02 20:30	29° \approx 42'20		minimum elong	2916 Feb 08 20:55	19° \approx 19'21	3°23'07
	2915 Mar 02 12:16	30° κ \approx		min. Earth dist.	2916 Feb 10 10:28	17° \approx 19'58	0.65974 AU
direct	2915 Mar 09 15:46	26° \approx 52'27		morning rise	2916 Feb 14 08:29	13° \approx 00'32	
	2915 Mar 17 17:12	0° χ		direct	2916 Feb 20 18:41	10° \approx 11'03	
desc. node	2915 Mar 18 18:40	0° χ 47'20		morning max el	2916 Mar 04 14:31	17° \approx 46'34	26°24'52
morning max el	2915 Mar 23 04:33	4° χ 44'28	27°21'48	desc. node	2916 Mar 04 15:41	17° \approx 49'32	
	2915 Apr 11 08:09	0° γ			2916 Mar 14 20:53	0° χ	
morning set	2915 Apr 27 11:59	28° γ 26'55			2916 Apr 03 06:49	0° γ	
	2915 Apr 28 06:56	0° δ		morning set	2916 Apr 09 16:22	11° γ 34'37	

max. Earth dist.	2916 Apr 13 18:45	19°♿27'38	1.34898 AU		2917 Mar 08 20:44	0°♿	
				morning set	2917 Mar 23 03:54	23°♿48'39	
superior conj	2916 Apr 18 12:45	29°♿00'59	-0°53'49		2917 Mar 26 13:20	0°♿	
minimum elong	2916 Apr 18 15:32	29°♿15'19	0°53'17	max. Earth dist.	2917 Mar 26 19:38	0°♿29'14	1.36688 AU
	2916 Apr 19 00:14	0°♿					
asc. node	2916 Apr 23 22:05	10°♿12'52		superior conj	2917 Apr 02 01:30	12°♿27'52	-1°21'13
evening rise	2916 Apr 26 04:55	14°♿57'47		minimum elong	2917 Apr 02 05:33	12°♿47'53	1°20'36
	2916 May 03 22:01	0°♿		evening rise	2917 Apr 10 08:42	29°♿08'53	
evening max el	2916 May 15 01:27	15°♿35'24	20°46'01	asc. node	2917 Apr 10 19:07	0°♿01'18	
retrograde	2916 May 26 10:55	21°♿08'48			2917 Apr 10 18:52	0°♿	
evening set	2916 May 28 13:18	20°♿58'13		evening max el	2917 Apr 27 14:03	27°♿06'31	19°36'27
desc. node	2916 May 31 14:54	20°♿07'55			2917 May 01 06:08	0°♿	
inferior conj	2916 Jun 06 20:19	17°♿00'35	-1°48'56	retrograde	2917 May 07 05:37	1°♿46'52	
minimum elong	2916 Jun 06 15:12	17°♿07'54	1°47'06	evening set	2917 May 09 05:42	1°♿35'41	
min. Earth dist.	2916 Jun 07 19:05	16°♿28'03	0.54924 AU		2917 May 13 17:07	30°♿	
morning rise	2916 Jun 15 16:39	12°♿54'54		inferior conj	2917 May 17 22:19	27°♿32'03	0°09'55
direct	2916 Jun 19 06:46	12°♿27'09		minimum elong	2917 May 17 22:45	27°♿31'22	0°09'45
morning max el	2916 Jul 02 10:19	18°♿46'24	23°00'32	transit middle	2917 May 17 22:45	27°♿31'22	0°09'45
	2916 Jul 11 15:36	0°♿		transit begin	2917 May 17 19:39	27°♿36'17	
asc. node	2916 Jul 20 21:19	16°♿02'41		transit end	2917 May 18 01:51	27°♿26'27	
morning set	2916 Jul 25 05:42	24°♿54'37		desc. node	2917 May 18 11:56	27°♿10'28	
	2916 Jul 27 15:14	0°♿		min. Earth dist.	2917 May 20 09:10	25°♿59'19	0.55727 AU
				morning rise	2917 May 26 13:10	22°♿55'47	
superior conj	2916 Aug 01 07:43	10°♿03'43	1°35'06	direct	2917 May 31 00:33	22°♿10'53	
minimum elong	2916 Aug 01 05:47	9°♿53'25	1°34'56	morning max el	2917 Jun 14 00:47	29°♿13'13	24°42'50
max. Earth dist.	2916 Aug 04 01:59	15°♿54'28	1.33820 AU		2917 Jun 14 19:59	0°♿	
evening rise	2916 Aug 09 00:43	25°♿59'41			2917 Jul 04 21:50	0°♿	
	2916 Aug 11 02:00	0°♿		asc. node	2917 Jul 07 18:23	5°♿43'58	
desc. node	2916 Aug 27 14:13	28°♿01'52		morning set	2917 Jul 09 17:32	9°♿49'57	
	2916 Aug 28 22:37	0°♿					
evening max el	2916 Sep 12 09:53	17°♿36'53	27°16'36	superior conj	2917 Jul 16 16:50	24°♿55'35	1°21'46
retrograde	2916 Sep 25 20:35	24°♿55'32		minimum elong	2917 Jul 16 14:29	24°♿42'48	1°21'27
evening set	2916 Oct 02 20:38	22°♿13'02		max. Earth dist.	2917 Jul 18 06:19	28°♿19'04	1.32849 AU
min. Earth dist.	2916 Oct 06 15:35	18°♿39'39	0.64682 AU		2917 Jul 19 01:02	0°♿	
inferior conj	2916 Oct 08 21:46	16°♿12'11	-2°35'40	evening rise	2917 Jul 23 22:29	10°♿17'06	
minimum elong	2916 Oct 09 02:01	16°♿00'36	2°34'07		2917 Aug 03 09:14	0°♿	
morning rise	2916 Oct 15 08:26	10°♿43'04		desc. node	2917 Aug 14 11:14	17°♿14'54	
asc. node	2916 Oct 16 20:31	10°♿13'51			2917 Aug 25 03:48	0°♿	
direct	2916 Oct 17 23:17	10°♿07'18		evening max el	2917 Aug 25 20:09	0°♿39'24	27°25'42
morning max el	2916 Oct 24 11:16	13°♿34'43	18°00'17	retrograde	2917 Sep 08 13:40	7°♿56'03	
	2916 Nov 04 23:30	0°♿		evening set	2917 Sep 15 18:25	5°♿22'35	
morning set	2916 Nov 11 00:58	10°♿08'18		min. Earth dist.	2917 Sep 19 09:16	2°♿20'14	0.63017 AU
	2916 Nov 23 02:02	0°♿			2917 Sep 21 18:43	30°♿	
desc. node	2916 Nov 23 13:30	0°♿46'09		inferior conj	2917 Sep 22 03:32	29°♿38'17	-3°33'07
				minimum elong	2917 Sep 22 08:58	29°♿24'58	3°31'29
superior conj	2916 Nov 24 17:37	2°♿39'05	-0°07'59	morning rise	2917 Sep 29 00:57	24°♿26'29	
minimum elong	2916 Nov 24 16:39	2°♿35'12	0°07'50	direct	2917 Oct 01 11:36	23°♿58'34	
behind sun begin	2916 Nov 24 07:23	1°♿58'01		asc. node	2917 Oct 03 17:34	24°♿22'47	
behind sun end	2916 Nov 25 01:55	3°♿12'20		morning max el	2917 Oct 08 03:36	27°♿24'46	17°50'56
max. Earth dist.	2916 Nov 29 01:43	9°♿33'09	1.44822 AU		2917 Oct 10 10:54	0°♿	
evening rise	2916 Dec 11 01:00	28°♿12'27		morning set	2917 Oct 24 10:08	22°♿37'34	
	2916 Dec 12 04:56	0°♿			2917 Oct 28 15:01	0°♿	
greatest brilliancy	2916 Dec 25 05:50	19°♿46'46	-0.6m				
	2917 Jan 01 11:57	0°♿		superior conj	2917 Nov 05 03:21	12°♿50'10	0°35'55
evening max el	2917 Jan 06 06:44	5°♿40'09	20°00'33	minimum elong	2917 Nov 05 06:45	13°♿04'21	0°35'27
asc. node	2917 Jan 12 19:48	10°♿01'30		desc. node	2917 Nov 10 10:32	21°♿33'37	
retrograde	2917 Jan 13 22:15	10°♿08'10		max. Earth dist.	2917 Nov 11 18:10	23°♿41'24	1.43759 AU
evening set	2917 Jan 17 14:42	8°♿48'54			2917 Nov 15 17:11	0°♿	
inferior conj	2917 Jan 23 00:58	2°♿46'41	2°57'00	evening rise	2917 Nov 20 09:59	7°♿20'25	
minimum elong	2917 Jan 22 22:28	2°♿55'04	2°56'24		2917 Dec 05 12:28	0°♿	
min. Earth dist.	2917 Jan 23 22:31	1°♿34'27	0.67010 AU	evening max el	2917 Dec 20 06:26	19°♿12'15	21°07'02
	2917 Jan 25 03:24	30°♿		retrograde	2917 Dec 28 20:00	24°♿16'50	
morning rise	2917 Jan 28 06:00	26°♿33'05		asc. node	2917 Dec 30 16:50	23°♿57'35	
direct	2917 Feb 03 03:25	23°♿55'12		evening set	2918 Jan 01 22:11	22°♿42'24	
	2917 Feb 13 23:22	0°♿		inferior conj	2918 Jan 07 06:47	16°♿29'18	2°21'32
morning max el	2917 Feb 14 23:20	0°♿59'08	25°07'29	minimum elong	2918 Jan 07 04:16	16°♿37'55	2°20'44
desc. node	2917 Feb 19 12:43	6°♿00'44		min. Earth dist.	2918 Jan 07 15:46	15°♿58'20	0.67649 AU

morning rise	2918 Jan 12 10:11	10° Z 16'28	direct	2919 Jan 01 10:28	22° Z 11'24	
direct	2918 Jan 17 16:59	7° Z 57'40	morning max el	2919 Jan 10 19:15	27° Z 41'59	22°12'12
morning max el	2918 Jan 28 07:50	14° Z 17'06 23°39'59		2919 Jan 12 23:06	0° Z	
desc. node	2918 Feb 06 09:47	25° Z 01'21	desc. node	2919 Jan 24 06:49	14° Z 37'12	
	2918 Feb 10 02:20	0° \approx		2919 Feb 03 18:03	0° \approx	
	2918 Mar 01 18:50	0° H	morning set	2919 Feb 13 00:58	14° \approx 34'55	
morning set	2918 Mar 04 16:33	4° H 52'48	max. Earth dist.	2919 Feb 18 12:11	23° \approx 36'10	1.40942 AU
max. Earth dist.	2918 Mar 08 14:39	11° H 40'15 1.38788 AU		2919 Feb 22 06:10	0° H	
superior conj	2918 Mar 16 01:06	25° H 12'58 -1°44'58	superior conj	2919 Feb 26 06:53	7° H 04'47 -2°01'27	
minimum elong	2918 Mar 16 05:35	25° H 33'59 1°44'31	minimum elong	2919 Feb 26 09:57	7° H 18'25 2°01'20	
	2918 Mar 18 13:37	0° Y	evening rise	2919 Mar 08 14:34	26° H 02'22	
evening rise	2918 Mar 25 05:00	12° Y 52'59		2919 Mar 10 17:34	0° Y	
asc. node	2918 Mar 28 16:10	19° Y 33'27	asc. node	2919 Mar 15 13:12	8° Y 43'36	
	2918 Apr 03 12:57	0° B	evening max el	2919 Mar 24 20:22	21° Y 58'18 18°17'00	
evening max el	2918 Apr 10 13:23	9° B 16'38 18°46'39	retrograde	2919 Mar 31 23:17	25° Y 31'32	
retrograde	2918 Apr 18 16:51	13° B 15'10	evening set	2919 Apr 03 10:49	25° Y 06'36	
evening set	2918 Apr 20 22:09	12° B 58'34	inferior conj	2919 Apr 10 13:15	20° Y 25'11 2°54'07	
inferior conj	2918 Apr 28 19:03	8° B 37'50 1°48'22	minimum elong	2919 Apr 10 16:46	20° Y 17'35 2°53'22	
minimum elong	2918 Apr 28 22:37	8° B 31'16 1°47'16	min. Earth dist.	2919 Apr 13 23:20	17° Y 29'58 0.59359 AU	
min. Earth dist.	2918 May 02 01:50	6° B 14'09 0.57314 AU	morning rise	2919 Apr 17 20:10	14° Y 46'47	
desc. node	2918 May 05 08:58	4° B 10'02	desc. node	2919 Apr 22 06:00	13° Y 07'23	
morning rise	2918 May 06 19:57	3° B 27'14	direct	2919 Apr 24 04:23	12° Y 57'15	
direct	2918 May 12 07:58	2° B 13'24	morning max el	2919 May 08 13:02	20° Y 44'38 27°19'16	
morning max el	2918 May 26 16:08	9° B 43'53 26°14'01		2919 May 16 12:52	0° B	
	2918 Jun 11 01:46	0° II		2919 Jun 03 21:03	0° II	
morning set	2918 Jun 24 04:34	24° II 42'05	morning set	2919 Jun 08 13:12	9° II 25'41	
asc. node	2918 Jun 24 15:25	25° II 39'28	asc. node	2919 Jun 11 12:29	15° II 44'08	
	2918 Jun 26 16:02	0° E	max. Earth dist.	2919 Jun 15 04:37	23° II 45'17 1.32110 AU	
superior conj	2918 Jul 01 04:09	9° E 52'11 1°04'00	superior conj	2919 Jun 15 15:55	24° II 47'36 0°42'29	
minimum elong	2918 Jul 01 01:53	9° E 39'40 1°03'36	minimum elong	2919 Jun 15 14:11	24° II 37'58 0°42'08	
max. Earth dist.	2918 Jul 01 16:24	10° E 59'36 1.32284 AU		2919 Jun 18 00:40	0° E	
evening rise	2918 Jul 08 03:08	24° E 53'42	evening rise	2919 Jun 22 12:12	9° E 41'33	
	2918 Jul 10 14:48	0° O		2919 Jul 02 23:05	0° O	
	2918 Jul 28 02:12	0° P	desc. node	2919 Jul 19 05:17	22° O 53'28	
desc. node	2918 Aug 01 08:17	5° P 38'52	evening max el	2919 Jul 21 00:43	24° O 41'56 26°05'51	
evening max el	2918 Aug 08 01:57	13° P 04'16 27°02'10		2919 Jul 28 03:01	0° P	
retrograde	2918 Aug 21 23:19	20° P 16'57	retrograde	2919 Aug 04 00:15	1° P 51'29	
evening set	2918 Aug 29 00:11	18° P 05'11	evening set	2919 Aug 10 09:10	0° P 13'01	
min. Earth dist.	2918 Sep 01 16:14	15° P 24'07 0.61083 AU		2919 Aug 10 19:16	30° R 0	
inferior conj	2918 Sep 04 20:11	12° P 40'42 -4°23'01	min. Earth dist.	2919 Aug 14 13:18	27° O 37'09 0.59022 AU	
minimum elong	2918 Sep 05 01:34	12° P 29'03 4°21'54	inferior conj	2919 Aug 17 20:06	25° O 09'52 -4°56'47	
morning rise	2918 Sep 12 04:43	7° P 49'37	minimum elong	2919 Aug 17 23:09	25° O 04'07 4°56'31	
direct	2918 Sep 14 14:07	7° P 26'32	morning rise	2919 Aug 25 15:20	20° O 41'52	
asc. node	2918 Sep 20 14:38	9° P 58'57	direct	2919 Aug 28 02:18	20° O 21'30	
morning max el	2918 Sep 21 17:29	10° P 59'41 18°00'15	morning max el	2919 Sep 05 01:46	24° O 11'09 18°29'34	
	2918 Oct 04 07:13	0° A	asc. node	2919 Sep 07 11:41	26° O 48'22	
morning set	2918 Oct 07 13:01	5° A 57'13		2919 Sep 09 21:22	0° P	
			morning set	2919 Sep 21 04:27	19° P 52'41	
superior conj	2918 Oct 17 15:51	24° A 19'27 1°09'19		2919 Sep 26 10:46	0° A	
minimum elong	2918 Oct 17 20:12	24° A 38'37 1°08'48	superior conj	2919 Sep 30 03:05	6° A 55'45 1°31'05	
	2918 Oct 20 22:10	0° M	minimum elong	2919 Sep 30 06:19	7° A 10'45 1°30'48	
max. Earth dist.	2918 Oct 25 06:13	7° M 19'18 1.42139 AU	max. Earth dist.	2919 Oct 07 12:54	20° A 14'20 1.40165 AU	
desc. node	2918 Oct 28 07:34	12° M 20'32	evening rise	2919 Oct 11 19:54	27° A 32'17	
evening rise	2918 Oct 31 04:27	16° M 57'24		2919 Oct 13 07:35	0° M	
	2918 Nov 08 14:33	0° X	desc. node	2919 Oct 15 04:35	3° M 03'25	
	2918 Nov 30 11:19	0° Z		2919 Nov 02 05:09	0° X	
evening max el	2918 Dec 03 00:47	2° Z 45'35 22°22'51	evening max el	2919 Nov 15 14:59	16° X 21'09 23°42'46	
retrograde	2918 Dec 12 16:04	8° Z 29'20	retrograde	2919 Nov 26 09:05	22° X 41'58	
evening set	2918 Dec 17 05:45	6° Z 38'32	evening set	2919 Dec 01 11:47	20° X 34'30	
asc. node	2918 Dec 17 13:53	6° Z 21'15	asc. node	2919 Dec 04 10:55	17° X 25'03	
inferior conj	2918 Dec 22 14:16	0° Z 17'53 1°38'41	inferior conj	2919 Dec 06 21:37	14° X 10'06 0°49'44	
minimum elong	2918 Dec 22 12:14	0° Z 24'55 1°37'55	minimum elong	2919 Dec 06 20:29	14° X 14'01 0°49'15	
min. Earth dist.	2918 Dec 22 11:50	0° Z 26'19 0.67908 AU	min. Earth dist.	2919 Dec 06 08:26	14° X 55'04 0.67812 AU	
	2918 Dec 22 19:26	30° R 0	morning rise	2919 Dec 12 05:10	8° X 04'07	
morning rise	2918 Dec 27 18:36	24° X 07'33				

direct	2919 Dec 16 06:54	6°♊30'47		transit begin	2920 Nov 20 00:33	28°♍12'34	
morning max el	2919 Dec 24 12:57	11°♊16'56	20°51'41	transit end	2920 Nov 20 05:54	27°♍54'57	
	2920 Jan 07 23:53	0°♊		asc. node	2920 Nov 20 07:57	27°♍48'14	
desc. node	2920 Jan 11 03:50	4°♊38'12		morning rise	2920 Nov 25 15:57	22°♍04'39	
morning set	2920 Jan 23 06:42	23°♊04'13		direct	2920 Nov 29 05:10	20°♍51'56	
	2920 Jan 27 16:14	0°♊		morning max el	2920 Dec 06 14:28	25°♍02'58	19°43'31
max. Earth dist.	2920 Jan 31 16:23	6°♊26'31	1.42861 AU		2920 Dec 10 21:29	0°♊	
				greatest brilliancy	2920 Dec 19 19:15	12°♊30'13	-0.7m
superior conj	2920 Feb 07 13:32	17°♊50'26	-2°05'56	desc. node	2920 Dec 28 00:51	24°♊57'34	
minimum elong	2920 Feb 07 12:28	17°♊45'54	2°05'55		2920 Dec 31 07:31	0°♊	
	2920 Feb 14 14:48	0°♊		morning set	2921 Jan 01 02:51	1°♊14'35	
evening rise	2920 Feb 19 09:18	8°♊27'13		max. Earth dist.	2921 Jan 13 03:39	20°♊04'01	1.44297 AU
asc. node	2920 Mar 01 10:14	27°♊23'48					
	2920 Mar 03 04:31	0°♊		superior conj	2921 Jan 17 18:04	27°♊25'51	-1°53'17
evening max el	2920 Mar 07 07:40	5°♊01'44	18°07'04	minimum elong	2921 Jan 17 11:17	26°♊58'32	1°52'51
retrograde	2920 Mar 13 21:33	8°♊25'14			2921 Jan 19 08:09	0°♊	
evening set	2920 Mar 16 14:45	7°♊50'18		evening rise	2921 Jan 31 08:52	19°♊59'37	
inferior conj	2920 Mar 23 02:22	2°♊48'24	3°29'16		2921 Feb 06 06:40	0°♊	
minimum elong	2920 Mar 23 04:15	2°♊43'43	3°29'04	asc. node	2921 Feb 16 07:16	15°♊25'13	
	2920 Mar 25 22:33	30°♊		evening max el	2921 Feb 18 20:21	18°♊19'53	18°16'16
min. Earth dist.	2920 Mar 26 04:19	29°♊46'19	0.61521 AU	retrograde	2921 Feb 25 07:06	21°♊47'15	
morning rise	2920 Mar 29 16:05	26°♊52'15		evening set	2921 Feb 28 05:49	21°♊01'10	
direct	2920 Apr 05 11:50	24°♊29'40		inferior conj	2921 Mar 06 06:28	15°♊39'57	3°40'22
desc. node	2920 Apr 08 03:02	24°♊49'23		minimum elong	2921 Mar 06 06:30	15°♊39'52	3°40'21
	2920 Apr 17 01:22	0°♊		min. Earth dist.	2921 Mar 08 18:28	12°♊53'34	0.63527 AU
morning max el	2920 Apr 19 16:14	2°♊26'04	27°49'10	morning rise	2921 Mar 12 06:17	9°♊34'09	
	2920 May 09 21:52	0°♊		direct	2921 Mar 19 04:09	6°♊49'45	
morning set	2920 May 22 17:25	23°♊53'09		desc. node	2921 Mar 26 00:04	9°♊02'47	
	2920 May 25 15:47	0°♊		morning max el	2921 Apr 01 24:00	14°♊46'36	27°41'35
asc. node	2920 May 28 09:31	5°♊52'32			2921 Apr 14 09:20	0°♊	
max. Earth dist.	2920 May 28 14:47	6°♊21'06	1.32329 AU		2921 May 02 12:32	0°♊	
				morning set	2921 May 06 14:54	7°♊57'20	
superior conj	2920 May 30 02:23	9°♊35'02	0°17'52	max. Earth dist.	2921 May 11 19:01	18°♊34'52	1.32971 AU
minimum elong	2920 May 30 01:34	9°♊30'33	0°17'42				
evening rise	2920 Jun 05 23:31	24°♊32'26		superior conj	2921 May 14 09:46	24°♊09'03	-0°09'06
	2920 Jun 08 14:13	0°♊		minimum elong	2921 May 14 10:13	24°♊11'28	0°09'00
	2920 Jun 26 14:54	0°♊		behind sun begin	2921 May 14 05:48	23°♊47'45	
evening max el	2920 Jul 01 16:26	5°♊34'12	24°43'18	behind sun end	2921 May 14 14:38	24°♊35'11	
desc. node	2920 Jul 05 02:18	8°♊30'07		asc. node	2921 May 15 06:33	26°♊00'50	
retrograde	2920 Jul 15 14:49	12°♊37'28			2921 May 17 02:50	0°♊	
evening set	2920 Jul 20 18:11	11°♊37'42		evening rise	2921 May 21 11:18	9°♊20'38	
min. Earth dist.	2920 Jul 26 03:42	8°♊48'12	0.57076 AU		2921 Jun 01 04:58	0°♊	
inferior conj	2920 Jul 29 00:19	6°♊56'31	-5°01'31	evening max el	2921 Jun 13 05:56	16°♊02'26	23°07'39
minimum elong	2920 Jul 28 22:21	6°♊59'44	5°01'26	desc. node	2921 Jun 21 23:19	21°♊54'14	
morning rise	2920 Aug 06 05:11	2°♊50'14		retrograde	2921 Jun 26 16:54	22°♊45'15	
direct	2920 Aug 08 19:59	2°♊31'04		evening set	2921 Jun 30 07:49	22°♊16'32	
morning max el	2920 Aug 18 01:19	6°♊49'28	19°20'07	min. Earth dist.	2921 Jul 07 15:20	18°♊59'00	0.55595 AU
asc. node	2920 Aug 24 08:43	14°♊35'40		inferior conj	2921 Jul 09 08:58	17°♊58'18	-4°22'34
	2920 Sep 02 01:22	0°♊		minimum elong	2921 Jul 09 01:47	18°♊08'48	4°21'09
morning set	2920 Sep 04 04:38	4°♊13'32		morning rise	2921 Jul 17 22:11	14°♊05'25	
				direct	2921 Jul 20 18:50	13°♊45'50	
superior conj	2920 Sep 12 07:30	20°♊23'05	1°42'23	morning max el	2921 Jul 31 13:40	18°♊45'57	20°32'02
minimum elong	2920 Sep 12 08:57	20°♊30'10	1°42'20		2921 Aug 09 08:43	0°♊	
	2920 Sep 17 08:36	0°♊		asc. node	2921 Aug 11 05:46	3°♊07'37	
max. Earth dist.	2920 Sep 18 16:38	2°♊27'43	1.38093 AU	morning set	2921 Aug 19 10:42	18°♊51'53	
evening rise	2920 Sep 22 11:06	9°♊13'19			2921 Aug 24 20:03	0°♊	
desc. node	2920 Oct 01 01:36	23°♊38'27					
	2920 Oct 05 03:11	0°♊		superior conj	2921 Aug 27 00:13	4°♊27'12	1°44'59
evening max el	2920 Oct 28 03:15	0°♊00'35	25°00'19	minimum elong	2921 Aug 27 00:00	4°♊26'06	1°44'59
	2920 Oct 28 03:01	0°♊		max. Earth dist.	2921 Aug 31 23:26	14°♊20'09	1.36173 AU
retrograde	2920 Nov 08 22:05	6°♊50'50		evening rise	2921 Sep 04 23:09	21°♊53'29	
evening set	2920 Nov 14 14:41	4°♊27'51			2921 Sep 09 11:27	0°♊	
	2920 Nov 18 15:42	30°♊		desc. node	2921 Sep 17 22:37	14°♊00'29	
min. Earth dist.	2920 Nov 19 03:17	29°♊22'26	0.67377 AU		2921 Sep 28 22:53	0°♊	
inferior conj	2920 Nov 20 03:07	28°♊04'05	-0°04'09	evening max el	2921 Oct 10 15:30	13°♊41'38	26°08'04
minimum elong	2920 Nov 20 03:13	28°♊03'45	0°04'06	retrograde	2921 Oct 23 06:10	20°♊50'07	
transit middle	2920 Nov 20 03:13	28°♊03'45	0°04'06	evening set	2921 Oct 29 12:36	18°♊14'44	

min. Earth dist.	2921 Nov 02 17:56	13° \mathbb{M} 44'48	0.66608 AU	retrograde	2922 Oct 06 08:42	4° \mathbb{M} 33'42	
inferior conj	2921 Nov 04 04:54	11° \mathbb{M} 56'19	-1°01'42	evening set	2922 Oct 13 03:25	1° \mathbb{M} 51'31	
minimum elong	2921 Nov 04 06:32	11° \mathbb{M} 51'14	1°01'00		2922 Oct 15 04:28	30° \mathbb{R} \mathbb{A}	
asc. node	2921 Nov 07 04:59	8° \mathbb{M} 26'25		min. Earth dist.	2922 Oct 17 02:00	27° \mathbb{A} 57'50	0.65495 AU
morning rise	2921 Nov 10 00:55	6° \mathbb{M} 06'06		inferior conj	2922 Oct 19 00:55	25° \mathbb{A} 43'12	-2°01'17
direct	2921 Nov 13 03:41	5° \mathbb{M} 10'38		minimum elong	2922 Oct 19 04:14	25° \mathbb{A} 33'39	1°59'58
morning max el	2921 Nov 19 23:08	8° \mathbb{M} 57'00	18°50'22	morning rise	2922 Oct 25 05:50	20° \mathbb{A} 05'19	
	2921 Dec 05 01:05	0° \mathbb{A}		asc. node	2922 Oct 25 02:00	20° \mathbb{A} 10'13	
morning set	2921 Dec 11 14:35	10° \mathbb{A} 17'57		direct	2922 Oct 28 00:25	19° \mathbb{A} 23'19	
desc. node	2921 Dec 14 21:51	15° \mathbb{A} 29'33		morning max el	2922 Nov 03 13:00	22° \mathbb{A} 54'47	18°13'38
	2921 Dec 24 03:44	0° \mathbb{A}			2922 Nov 09 04:45	0° \mathbb{M}	
max. Earth dist.	2921 Dec 26 20:25	4° \mathbb{A} 13'56	1.45085 AU	morning set	2922 Nov 22 07:06	20° \mathbb{M} 49'09	
					2922 Nov 27 22:40	0° \mathbb{A}	
superior conj	2921 Dec 28 01:08	6° \mathbb{A} 06'50	-1°21'24	desc. node	2922 Dec 01 18:55	6° \mathbb{A} 10'28	
minimum elong	2921 Dec 27 16:12	5° \mathbb{A} 31'42	1°20'26				
evening rise	2922 Jan 12 09:38	0° \mathbb{A} 33'56		superior conj	2922 Dec 07 03:50	14° \mathbb{A} 42'24	-0°35'49
	2922 Jan 12 01:14	0° \mathbb{A}		minimum elong	2922 Dec 06 23:15	14° \mathbb{A} 24'19	0°35'11
	2922 Jan 31 17:15	0° \mathbb{A}		max. Earth dist.	2922 Dec 09 15:50	18° \mathbb{A} 38'45	1.45139 AU
evening max el	2922 Feb 02 07:43	1° \mathbb{A} 45'48	18°43'46		2922 Dec 16 21:55	0° \mathbb{A}	
asc. node	2922 Feb 03 04:18	2° \mathbb{A} 35'47		evening rise	2922 Dec 23 11:51	10° \mathbb{A} 15'37	
retrograde	2922 Feb 08 23:51	5° \mathbb{A} 28'51		greatest brilliancy	2923 Jan 04 10:12	28° \mathbb{A} 43'20	-0.7m
evening set	2922 Feb 12 04:35	4° \mathbb{A} 30'37			2923 Jan 05 06:28	0° \mathbb{A}	
	2922 Feb 16 22:57	30° \mathbb{R} \mathbb{A}		evening max el	2923 Jan 16 15:35	15° \mathbb{A} 15'11	19°28'09
inferior conj	2922 Feb 17 21:35	28° \mathbb{A} 51'39	3°33'34	asc. node	2923 Jan 21 01:20	18° \mathbb{A} 41'51	
minimum elong	2922 Feb 17 20:11	28° \mathbb{A} 55'57	3°33'26	retrograde	2923 Jan 23 20:33	19° \mathbb{A} 24'15	
min. Earth dist.	2922 Feb 19 17:55	26° \mathbb{A} 36'38	0.65200 AU	evening set	2923 Jan 27 08:23	18° \mathbb{A} 12'49	
morning rise	2922 Feb 23 11:20	22° \mathbb{A} 40'58		inferior conj	2923 Feb 01 20:26	12° \mathbb{A} 18'11	3°13'24
direct	2922 Mar 02 03:32	19° \mathbb{A} 49'26		minimum elong	2923 Feb 01 18:10	12° \mathbb{A} 25'35	3°12'58
desc. node	2922 Mar 12 21:04	25° \mathbb{A} 12'25		min. Earth dist.	2923 Feb 03 01:48	10° \mathbb{A} 42'29	0.66470 AU
morning max el	2922 Mar 15 09:38	27° \mathbb{A} 35'54	27°00'38	morning rise	2923 Feb 07 03:44	6° \mathbb{A} 05'15	
	2922 Mar 17 16:18	0° \mathbb{A}		direct	2923 Feb 13 08:53	3° \mathbb{A} 19'42	
	2922 Apr 08 02:04	0° \mathbb{Y}		morning max el	2923 Feb 25 19:04	10° \mathbb{A} 42'42	25°53'52
morning set	2922 Apr 20 02:38	21° \mathbb{Y} 28'42		desc. node	2923 Feb 27 18:06	12° \mathbb{A} 46'19	
	2922 Apr 24 10:16	0° \mathbb{A}			2923 Mar 13 03:18	0° \mathbb{A}	
max. Earth dist.	2922 Apr 24 13:45	0° \mathbb{A} 17'37	1.34062 AU		2923 Mar 31 16:27	0° \mathbb{Y}	
				morning set	2923 Apr 03 00:29	4° \mathbb{Y} 14'51	
superior conj	2922 Apr 28 12:02	8° \mathbb{A} 23'17	-0°37'24	max. Earth dist.	2923 Apr 06 21:05	11° \mathbb{Y} 30'42	1.35612 AU
minimum elong	2922 Apr 28 13:58	8° \mathbb{A} 33'22	0°37'00				
asc. node	2922 May 02 03:36	16° \mathbb{A} 05'05		superior conj	2923 Apr 12 06:37	22° \mathbb{Y} 09'42	-1°05'41
evening rise	2922 May 05 21:39	24° \mathbb{A} 00'00		minimum elong	2923 Apr 12 10:00	22° \mathbb{Y} 26'49	1°05'06
	2922 May 08 19:45	0° \mathbb{II}			2923 Apr 16 02:41	0° \mathbb{A}	
evening max el	2922 May 26 00:45	26° \mathbb{II} 38'19	21°34'11	asc. node	2923 Apr 19 00:39	6° \mathbb{A} 00'35	
	2922 May 30 03:36	0° \mathbb{A}		evening rise	2923 Apr 20 04:32	8° \mathbb{A} 23'31	
retrograde	2922 Jun 07 07:52	2° \mathbb{A} 40'45			2923 May 01 23:56	0° \mathbb{II}	
desc. node	2922 Jun 08 20:20	2° \mathbb{A} 35'28		evening max el	2923 May 08 06:18	7° \mathbb{II} 45'36	20°14'06
evening set	2922 Jun 09 18:50	2° \mathbb{A} 27'04		retrograde	2923 May 10 21:40	12° \mathbb{II} 55'57	
	2922 Jun 16 07:46	30° \mathbb{R} \mathbb{II}		evening set	2923 May 20 21:46	12° \mathbb{II} 45'43	
inferior conj	2922 Jun 19 04:25	28° \mathbb{II} 26'20	-2°55'02	desc. node	2923 May 26 17:22	10° \mathbb{II} 38'06	
minimum elong	2922 Jun 18 20:51	28° \mathbb{II} 36'55	2°52'38	inferior conj	2923 May 29 23:50	8° \mathbb{II} 47'04	-0°57'40
min. Earth dist.	2922 Jun 19 02:45	28° \mathbb{II} 28'41	0.54898 AU	minimum elong	2923 May 29 21:07	8° \mathbb{II} 51'04	0°56'40
morning rise	2922 Jun 27 23:46	24° \mathbb{II} 31'18		min. Earth dist.	2923 May 31 15:19	7° \mathbb{II} 48'49	0.55154 AU
direct	2922 Jul 01 05:53	24° \mathbb{II} 08'11		morning rise	2923 Jun 07 19:04	4° \mathbb{II} 30'15	
morning max el	2922 Jul 13 14:35	29° \mathbb{II} 58'05	22°02'40	direct	2923 Jun 11 17:24	3° \mathbb{II} 56'47	
	2922 Jul 13 15:25	0° \mathbb{A}		morning max el	2923 Jun 25 07:17	10° \mathbb{II} 35'06	23°44'25
asc. node	2922 Jul 29 02:49	22° \mathbb{A} 13'26			2923 Jul 09 17:32	0° \mathbb{A}	
	2922 Aug 02 01:31	0° \mathbb{A}		asc. node	2923 Jul 15 23:53	11° \mathbb{A} 43'46	
morning set	2922 Aug 03 20:29	3° \mathbb{A} 41'51		morning set	2923 Jul 19 08:02	18° \mathbb{A} 36'45	
					2923 Jul 24 15:14	0° \mathbb{A}	
superior conj	2922 Aug 11 01:33	18° \mathbb{A} 57'11	1°40'27				
minimum elong	2922 Aug 11 00:06	18° \mathbb{A} 49'33	1°40'22	superior conj	2923 Jul 26 08:29	3° \mathbb{A} 43'05	1°30'04
max. Earth dist.	2922 Aug 14 14:19	26° \mathbb{A} 17'08	1.34572 AU	minimum elong	2923 Jul 26 06:19	3° \mathbb{A} 31'23	1°29'48
	2922 Aug 16 10:23	0° \mathbb{M}		max. Earth dist.	2923 Jul 28 14:13	8° \mathbb{A} 31'00	1.33361 AU
evening rise	2922 Aug 19 03:37	5° \mathbb{M} 20'59		evening rise	2923 Aug 02 20:04	19° \mathbb{A} 22'46	
	2922 Sep 02 04:46	0° \mathbb{A}			2923 Aug 08 08:05	0° \mathbb{M}	
desc. node	2922 Sep 04 19:40	4° \mathbb{A} 03'21		desc. node	2923 Aug 22 16:43	23° \mathbb{M} 37'39	
evening max el	2922 Sep 23 04:04	27° \mathbb{A} 17'20	26°58'19		2923 Aug 27 08:13	0° \mathbb{A}	
	2922 Sep 26 05:35	0° \mathbb{M}		evening max el	2923 Sep 05 15:40	10° \mathbb{A} 34'58	27°24'06

retrograde	2923 Sep 19 05:17	17°♄52'34		evening max el	2924 Aug 18 00:05	23°♎21'45	27°19'38
evening set	2923 Sep 26 08:23	15°♄12'20			2924 Aug 28 01:09	0°♄	
min. Earth dist.	2923 Sep 30 01:12	11°♄53'10	0.64023 AU	retrograde	2924 Aug 31 19:26	0°♄37'17	
inferior conj	2923 Oct 02 12:41	9°♄18'21	-3°00'32		2924 Sep 04 10:35	30°♎	
minimum elong	2923 Oct 02 17:31	9°♄05'43	2°58'53	evening set	2924 Sep 07 23:54	28°♎11'01	
morning rise	2923 Oct 09 03:50	3°♄56'17		min. Earth dist.	2924 Sep 11 14:10	25°♎19'35	0.62225 AU
direct	2923 Oct 11 16:41	3°♄24'09		inferior conj	2924 Sep 14 13:14	22°♎34'48	-3°55'37
asc. node	2923 Oct 11 23:03	3°♄24'31		minimum elong	2924 Sep 14 18:52	22°♎21'43	3°54'08
morning max el	2923 Oct 18 05:20	6°♄49'39	17°54'06	morning rise	2924 Sep 21 15:26	17°♎31'47	
	2923 Nov 02 13:41	0°♌		direct	2924 Sep 24 01:09	17°♎06'19	
morning set	2923 Nov 04 03:09	2°♌40'34		asc. node	2924 Sep 27 20:07	18°♎11'36	
				morning max el	2924 Sep 30 21:03	20°♎34'16	17°52'33
superior conj	2923 Nov 16 22:50	24°♌09'40	0°11'43		2924 Oct 07 22:18	0°♄	
minimum elong	2923 Nov 17 00:08	24°♌14'59	0°11'31	morning set	2924 Oct 16 20:31	15°♄32'38	
behind sun begin	2923 Nov 16 17:03	23°♌46'09			2924 Oct 24 23:48	0°♌	
behind sun end	2923 Nov 17 07:13	24°♌43'47					
desc. node	2923 Nov 18 15:59	26°♌56'33		superior conj	2924 Oct 27 20:09	4°♌54'39	0°51'32
	2923 Nov 20 13:36	0°♊		minimum elong	2924 Oct 28 00:19	5°♌12'26	0°50'58
max. Earth dist.	2923 Nov 22 10:25	2°♊58'54	1.44452 AU	max. Earth dist.	2924 Nov 04 00:53	16°♌54'41	1.43123 AU
evening rise	2923 Dec 02 22:57	19°♊25'20		desc. node	2924 Nov 04 13:01	17°♌44'00	
	2923 Dec 09 21:24	0°♊		evening rise	2924 Nov 11 09:55	28°♌40'01	
evening max el	2923 Dec 30 18:23	28°♊46'07	20°27'23		2924 Nov 12 06:28	0°♊	
	2924 Jan 01 00:37	0°♐			2924 Dec 02 15:22	0°♊	
retrograde	2924 Jan 07 18:38	3°♐29'14		evening max el	2924 Dec 12 15:33	12°♊17'45	21°38'25
asc. node	2924 Jan 07 22:20	3°♐29'06		retrograde	2924 Dec 21 15:58	17°♊39'38	
evening set	2924 Jan 11 15:03	2°♐03'29		asc. node	2924 Dec 24 19:22	16°♊45'40	
	2924 Jan 13 19:41	30°♋		evening set	2924 Dec 25 22:45	15°♊58'23	
inferior conj	2924 Jan 17 00:22	25°♊56'00	2°42'56	inferior conj	2924 Dec 31 07:06	9°♊41'22	2°04'11
minimum elong	2924 Jan 16 21:48	26°♊04'43	2°42'14	minimum elong	2924 Dec 31 04:45	9°♊49'32	2°03'22
min. Earth dist.	2924 Jan 17 16:18	25°♊01'45	0.67327 AU	min. Earth dist.	2924 Dec 31 11:06	9°♊27'31	0.67798 AU
morning rise	2924 Jan 22 04:22	19°♊42'32		morning rise	2925 Jan 05 10:35	3°♊29'10	
direct	2924 Jan 27 19:35	17°♊12'26		direct	2925 Jan 10 10:54	1°♊19'52	
morning max el	2924 Feb 08 03:43	23°♊58'35	24°31'00	morning max el	2925 Jan 20 13:05	7°♊19'16	23°02'09
	2924 Feb 13 12:54	0°♐		desc. node	2925 Jan 31 12:12	20°♊37'26	
desc. node	2924 Feb 14 15:10	1°♐20'35			2925 Feb 07 03:56	0°♐	
	2924 Mar 05 13:26	0°♏		morning set	2925 Feb 24 04:11	26°♐31'09	
morning set	2924 Mar 15 03:07	16°♏01'15			2925 Feb 26 05:58	0°♏	
max. Earth dist.	2924 Mar 18 19:01	22°♏33'39	1.37553 AU	max. Earth dist.	2925 Feb 28 13:50	3°♏58'41	1.39710 AU
	2924 Mar 22 19:21	0°♑					
superior conj	2924 Mar 25 14:17	5°♑19'54	-1°31'55	superior conj	2925 Mar 08 06:51	17°♏42'58	-1°53'07
minimum elong	2924 Mar 25 18:41	5°♑41'09	1°31'20	minimum elong	2925 Mar 08 11:00	18°♏02'06	1°52'47
evening rise	2924 Apr 03 05:32	22°♑24'18			2925 Mar 14 19:44	0°♑	
asc. node	2924 Apr 04 21:43	25°♑42'49		evening rise	2925 Mar 17 21:40	5°♑54'00	
	2924 Apr 07 02:45	0°♏		asc. node	2925 Mar 22 18:44	15°♑05'56	
evening max el	2924 Apr 19 23:39	19°♏33'21	19°12'47		2925 Apr 01 06:59	0°♏	
retrograde	2924 Apr 28 22:56	23°♏54'39		evening max el	2925 Apr 03 02:36	1°♏57'16	18°31'37
evening set	2924 May 01 00:38	23°♏41'43		retrograde	2925 Apr 10 18:18	5°♏43'03	
inferior conj	2924 May 09 09:01	19°♏31'23	0°55'17	evening set	2925 Apr 13 02:09	5°♏23'19	
minimum elong	2924 May 09 11:13	19°♏27'42	0°54'32	inferior conj	2925 Apr 20 14:53	0°♏54'16	2°20'18
min. Earth dist.	2924 May 12 06:20	17°♏35'20	0.56316 AU	minimum elong	2925 Apr 20 18:44	0°♏46'40	2°19'16
desc. node	2924 May 12 14:22	17°♏22'24			2925 Apr 21 18:18	30°♎	
morning rise	2924 May 17 18:44	14°♏40'01		min. Earth dist.	2925 Apr 24 01:00	28°♎13'57	0.58145 AU
direct	2924 May 22 16:19	13°♏44'26		morning rise	2925 Apr 28 08:14	25°♎30'20	
morning max el	2924 Jun 05 21:39	21°♏00'39	25°23'59	desc. node	2925 Apr 29 11:23	24°♎59'46	
	2924 Jun 13 16:24	0°♐		direct	2925 May 04 05:44	24°♎01'20	
	2924 Jul 01 03:17	0°♑			2925 May 16 19:27	0°♏	
asc. node	2924 Jul 01 20:58	1°♑31'48		morning max el	2925 May 18 15:01	1°♏41'10	26°45'40
morning set	2924 Jul 02 19:44	3°♑31'23			2925 Jun 07 20:19	0°♐	
				morning set	2925 Jun 17 05:56	18°♐20'03	
superior conj	2924 Jul 09 18:47	18°♑37'38	1°14'45	asc. node	2925 Jun 18 18:01	21°♐31'26	
minimum elong	2924 Jul 09 16:24	18°♑24'38	1°14'23		2925 Jun 22 15:36	0°♑	
max. Earth dist.	2924 Jul 10 21:22	21°♑03'00	1.32559 AU	superior conj	2925 Jun 24 06:29	3°♑34'09	0°55'18
	2924 Jul 15 01:13	0°♑		minimum elong	2925 Jun 24 04:23	3°♑22'33	0°54'54
evening rise	2924 Jul 16 21:04	3°♑48'56		max. Earth dist.	2925 Jun 24 08:33	3°♑45'28	1.32154 AU
	2924 Jul 31 01:49	0°♎		evening rise	2925 Jul 01 03:49	18°♑30'40	
desc. node	2924 Aug 08 13:43	12°♎31'39			2925 Jul 06 20:35	0°♑	

desc. node	2925 Jul 26 10:42	0° \mathbb{M} 28'59		evening max el	2926 Jul 12 22:49	16° Ω 44'40	25°33'29
	2925 Jul 26 00:52	0° \mathbb{M}		desc. node	2926 Jul 13 07:43	17° Ω 05'42	
evening max el	2925 Jul 31 03:01	5° \mathbb{M} 27'01	26°42'05	retrograde	2926 Jul 26 22:43	23° Ω 51'55	
retrograde	2925 Aug 14 01:59	12° \mathbb{M} 39'08		evening set	2926 Aug 01 20:23	22° Ω 30'20	
evening set	2925 Aug 20 21:30	10° \mathbb{M} 40'21		min. Earth dist.	2926 Aug 06 10:53	19° Ω 50'39	0.58155 AU
min. Earth dist.	2925 Aug 24 16:55	8° \mathbb{M} 03'34	0.60203 AU	inferior conj	2926 Aug 09 15:04	17° Ω 36'32	-5°03'19
inferior conj	2925 Aug 27 23:14	5° \mathbb{M} 24'27	-4°40'01	minimum elong	2926 Aug 09 16:16	17° Ω 34'24	5°03'17
minimum elong	2925 Aug 28 03:58	5° \mathbb{M} 14'46	4°39'16	morning rise	2926 Aug 17 14:28	13° Ω 17'52	
morning rise	2925 Sep 04 12:26	0° \mathbb{M} 43'06		direct	2926 Aug 20 02:49	12° Ω 58'08	
direct	2925 Sep 06 21:59	0° \mathbb{M} 21'33		morning max el	2926 Aug 28 13:53	16° Ω 58'50	18°48'24
morning max el	2925 Sep 14 09:01	4° \mathbb{M} 00'46	18°10'09	asc. node	2926 Sep 01 14:15	21° Ω 36'30	
asc. node	2925 Sep 14 17:12	4° \mathbb{M} 20'55			2926 Sep 06 23:14	0° \mathbb{M}	
morning set	2925 Sep 30 05:19	29° \mathbb{M} 09'12		morning set	2926 Sep 14 00:56	13° \mathbb{M} 16'45	
	2925 Sep 30 16:07	0° Ω					
superior conj	2925 Oct 09 19:01	16° Ω 54'32	1°19'55	superior conj	2926 Sep 22 14:13	29° \mathbb{M} 54'09	1°37'02
minimum elong	2925 Oct 09 23:04	17° Ω 12'44	1°19'29	minimum elong	2926 Sep 22 16:43	0° Ω 06'01	1°36'53
	2925 Oct 17 06:53	0° \mathbb{M}			2926 Sep 22 15:27	0° Ω	
max. Earth dist.	2925 Oct 17 10:05	0° \mathbb{M} 13'29	1.41326 AU	max. Earth dist.	2926 Sep 29 15:16	12° Ω 50'36	1.39285 AU
desc. node	2925 Oct 22 10:02	8° \mathbb{M} 29'51		evening rise	2926 Oct 03 14:15	19° Ω 43'26	
evening rise	2925 Oct 22 12:31	8° \mathbb{M} 39'54		desc. node	2926 Oct 09 07:03	29° Ω 09'56	
	2925 Nov 05 09:07	0° \mathbb{M}			2926 Oct 09 19:31	0° \mathbb{M}	
evening max el	2925 Nov 25 07:57	25° \mathbb{M} 52'11	22°56'44	evening max el	2926 Oct 30 14:04	0° \mathbb{M}	
	2925 Nov 30 04:49	0° \mathbb{M}			2926 Nov 07 21:17	9° \mathbb{M} 30'04	24°16'28
retrograde	2925 Dec 05 10:54	1° \mathbb{M} 52'30		retrograde	2926 Nov 19 02:11	16° \mathbb{M} 03'50	
evening set	2925 Dec 10 05:51	29° \mathbb{M} 54'53		evening set	2926 Nov 24 10:44	13° \mathbb{M} 49'42	
	2925 Dec 10 03:21	30° \mathbb{M}		asc. node	2926 Nov 28 13:26	9° \mathbb{M} 12'49	
asc. node	2925 Dec 11 16:23	28° \mathbb{M} 32'38		min. Earth dist.	2926 Nov 29 03:56	8° \mathbb{M} 24'34	0.67677 AU
inferior conj	2925 Dec 15 14:47	23° \mathbb{M} 32'08	1°18'38	inferior conj	2926 Nov 29 21:34	7° \mathbb{M} 25'17	0°27'27
minimum elong	2925 Dec 15 13:04	23° \mathbb{M} 38'01	1°17'57	minimum elong	2926 Nov 29 20:54	7° \mathbb{M} 27'30	0°27'09
min. Earth dist.	2925 Dec 15 07:48	23° \mathbb{M} 56'13	0.67909 AU	morning rise	2926 Dec 05 07:06	1° \mathbb{M} 21'45	
morning rise	2925 Dec 20 20:11	17° \mathbb{M} 23'08			2926 Dec 08 10:40	30° \mathbb{M}	
direct	2925 Dec 25 05:55	15° \mathbb{M} 36'38		direct	2926 Dec 09 03:24	29° \mathbb{M} 57'19	
morning max el	2926 Jan 03 02:41	20° \mathbb{M} 47'36	21°36'34		2926 Dec 09 20:23	0° \mathbb{M}	
	2926 Jan 10 20:52	0° \mathbb{M}		morning max el	2926 Dec 16 23:34	4° \mathbb{M} 26'47	20°20'53
desc. node	2926 Jan 18 09:15	10° \mathbb{M} 25'05			2927 Jan 04 21:04	0° \mathbb{M}	
	2926 Jan 31 10:12	0° \mathbb{M}		desc. node	2927 Jan 05 06:17	0° \mathbb{M} 34'34	
morning set	2926 Feb 04 00:11	5° \mathbb{M} 38'16		morning set	2927 Jan 13 22:48	13° \mathbb{M} 50'08	
max. Earth dist.	2926 Feb 10 13:21	16° \mathbb{M} 15'24	1.41808 AU	max. Earth dist.	2927 Jan 23 21:03	29° \mathbb{M} 28'45	1.43551 AU
					2927 Jan 24 04:50	0° \mathbb{M}	
superior conj	2926 Feb 18 03:22	29° \mathbb{M} 07'50	-2°05'09	superior conj	2927 Jan 29 23:01	9° \mathbb{M} 23'35	-2°02'54
minimum elong	2926 Feb 18 05:01	29° \mathbb{M} 15'01	2°05'07	minimum elong	2927 Jan 29 19:30	9° \mathbb{M} 09'00	2°02'47
	2926 Feb 18 15:20	0° \mathbb{M}			2927 Feb 11 01:26	0° \mathbb{M}	
evening rise	2926 Mar 01 01:23	18° \mathbb{M} 44'49		evening rise	2927 Feb 11 12:28	0° \mathbb{M} 48'07	
	2926 Mar 07 06:43	0° \mathbb{M}		asc. node	2927 Feb 24 12:44	22° \mathbb{M} 28'45	
asc. node	2926 Mar 09 15:44	4° \mathbb{M} 03'54		evening max el	2927 Mar 01 00:09	28° \mathbb{M} 00'04	18°08'41
evening max el	2926 Mar 17 11:51	14° \mathbb{M} 49'12	18°10'25		2927 Mar 03 09:27	0° \mathbb{M}	
retrograde	2926 Mar 24 07:43	18° \mathbb{M} 16'02		retrograde	2927 Mar 07 11:23	1° \mathbb{M} 23'25	
evening set	2926 Mar 26 21:50	17° \mathbb{M} 46'57		evening set	2927 Mar 10 07:02	0° \mathbb{M} 43'41	
inferior conj	2926 Apr 02 17:30	12° \mathbb{M} 56'55	3°12'24		2927 Mar 11 14:23	30° \mathbb{M}	
minimum elong	2926 Apr 02 20:25	12° \mathbb{M} 50'12	3°11'54	inferior conj	2927 Mar 16 13:31	25° \mathbb{M} 33'10	3°36'31
min. Earth dist.	2926 Apr 06 01:20	9° \mathbb{M} 55'36	0.60291 AU	minimum elong	2927 Mar 16 14:35	25° \mathbb{M} 30'21	3°36'26
morning rise	2926 Apr 09 16:50	7° \mathbb{M} 10'02		min. Earth dist.	2927 Mar 19 09:51	22° \mathbb{M} 35'42	0.62410 AU
direct	2926 Apr 16 07:25	5° \mathbb{M} 05'11		morning rise	2927 Mar 22 20:53	19° \mathbb{M} 32'22	
desc. node	2926 Apr 16 08:25	5° \mathbb{M} 05'11		direct	2927 Mar 29 18:40	16° \mathbb{M} 59'06	
morning max el	2926 Apr 30 14:21	12° \mathbb{M} 57'07	27°36'33	desc. node	2927 Apr 03 05:27	17° \mathbb{M} 55'32	
	2926 May 14 03:05	0° \mathbb{M}		morning max el	2927 Apr 12 19:44	24° \mathbb{M} 55'50	27°50'27
	2926 May 31 02:26	0° \mathbb{M}			2927 Apr 17 10:52	0° \mathbb{M}	
morning set	2926 Jun 01 12:52	2° \mathbb{M} 56'45			2927 May 07 12:52	0° \mathbb{M}	
asc. node	2926 Jun 05 15:03	11° \mathbb{M} 37'38		morning set	2927 May 16 14:33	17° \mathbb{M} 15'20	
max. Earth dist.	2926 Jun 07 20:12	16° \mathbb{M} 27'23	1.32150 AU	max. Earth dist.	2927 May 22 04:31	28° \mathbb{M} 56'18	1.32552 AU
					2927 May 22 16:22	0° \mathbb{M}	
superior conj	2926 Jun 08 17:53	18° \mathbb{M} 26'23	0°32'22	asc. node	2927 May 23 12:04	1° \mathbb{M} 46'28	
minimum elong	2926 Jun 08 16:29	18° \mathbb{M} 18'42	0°32'05				
	2926 Jun 14 00:39	0° \mathbb{M}		superior conj	2927 May 24 03:17	3° \mathbb{M} 08'59	0°06'41
evening rise	2926 Jun 15 14:04	3° \mathbb{M} 20'14		minimum elong	2927 May 24 02:58	3° \mathbb{M} 07'15	0°06'37
	2926 Jun 29 20:26	0° Ω		behind sun begin	2927 May 23 22:13	2° \mathbb{M} 41'30	

behind sun end	2927 May 24 07:42	3° Π 33'00		max. Earth dist.	2928 May 04 05:22	10° \mathcal{B} 58'37	1.33381 AU
evening rise	2927 May 31 01:51	18° Π 11'11					
	2927 Jun 05 21:13	0° \mathcal{E}		superior conj	2928 May 07 08:44	17° \mathcal{B} 34'53	-0°21'00
evening max el	2927 Jun 24 12:51	27° \mathcal{E} 23'21	24°03'18	minimum elong	2928 May 07 09:47	17° \mathcal{B} 40'31	0°20'47
	2927 Jun 27 12:38	0° Ω		asc. node	2928 May 09 09:06	21° \mathcal{B} 53'10	
desc. node	2927 Jun 30 04:43	1° Ω 50'39			2928 May 13 04:00	0° Π	
retrograde	2927 Jul 08 07:35	4° Ω 19'36		evening rise	2928 May 14 13:16	2° Π 56'09	
evening set	2927 Jul 12 19:49	3° Ω 34'35			2928 May 29 13:24	0° \mathcal{E}	
min. Earth dist.	2927 Jul 18 23:24	0° Ω 34'56	0.56372 AU	evening max el	2928 Jun 05 03:23	7° \mathcal{E} 49'29	22°26'42
	2927 Jul 19 22:17	30° \mathcal{R} \mathcal{E}		desc. node	2928 Jun 16 01:45	14° \mathcal{E} 07'51	
inferior conj	2927 Jul 21 10:39	29° \mathcal{E} 03'38	-4°51'05	retrograde	2928 Jun 18 04:30	14° \mathcal{E} 18'07	
minimum elong	2927 Jul 21 06:12	29° \mathcal{E} 10'32	4°50'34	evening set	2928 Jun 21 05:48	13° \mathcal{E} 57'32	
morning rise	2927 Jul 29 19:12	25° \mathcal{E} 04'35		min. Earth dist.	2928 Jun 29 10:26	10° \mathcal{E} 24'21	0.55188 AU
direct	2927 Aug 01 12:30	24° \mathcal{E} 45'19		inferior conj	2928 Jun 30 12:20	9° \mathcal{E} 47'39	-3°50'50
morning max el	2927 Aug 11 08:47	29° \mathcal{E} 19'33	19°48'12	minimum elong	2928 Jun 30 04:11	9° \mathcal{E} 59'13	3°48'46
	2927 Aug 12 01:34	0° Ω		morning rise	2928 Jul 09 04:40	5° \mathcal{E} 56'35	
asc. node	2927 Aug 19 11:18	9° Ω 44'02		direct	2928 Jul 12 04:37	5° \mathcal{E} 36'11	
morning set	2927 Aug 29 03:58	27° Ω 45'59		morning max el	2928 Jul 23 16:10	10° \mathcal{E} 56'31	21°08'45
	2927 Aug 30 06:26	0° \mathcal{M}		asc. node	2928 Aug 05 08:21	28° \mathcal{E} 30'58	
					2928 Aug 06 03:54	0° Ω	
superior conj	2927 Sep 06 00:25	13° \mathcal{M} 38'33	1°44'27	morning set	2928 Aug 12 11:50	12° Ω 29'27	
minimum elong	2927 Sep 06 01:08	13° \mathcal{M} 42'02	1°44'27				
max. Earth dist.	2927 Sep 11 20:01	24° \mathcal{M} 53'35	1.37249 AU	superior conj	2928 Aug 19 21:13	27° Ω 54'35	1°43'52
	2927 Sep 14 14:22	0° \mathcal{A}		minimum elong	2928 Aug 19 20:25	27° Ω 50'27	1°43'50
evening rise	2927 Sep 15 14:50	1° \mathcal{A} 50'32			2928 Aug 20 21:35	0° \mathcal{M}	
desc. node	2927 Sep 26 04:04	19° \mathcal{A} 39'55		max. Earth dist.	2928 Aug 24 05:38	6° \mathcal{M} 43'54	1.35439 AU
	2927 Oct 02 22:48	0° \mathcal{M}		evening rise	2928 Aug 28 10:22	14° \mathcal{M} 51'30	
evening max el	2927 Oct 21 09:24	23° \mathcal{M} 10'33	25°30'41		2928 Sep 05 21:58	0° \mathcal{A}	
	2927 Oct 31 22:55	0° \mathcal{A}		desc. node	2928 Sep 12 01:06	9° \mathcal{A} 54'21	
retrograde	2927 Nov 02 13:01	0° \mathcal{A} 09'20			2928 Sep 26 14:45	0° \mathcal{M}	
	2927 Nov 04 01:51	30° \mathcal{R} \mathcal{M}		evening max el	2928 Oct 02 21:37	6° \mathcal{M} 49'34	26°31'59
evening set	2927 Nov 08 11:45	27° \mathcal{M} 40'24		retrograde	2928 Oct 15 18:57	14° \mathcal{M} 03'09	
min. Earth dist.	2927 Nov 12 21:11	22° \mathcal{M} 50'10	0.67101 AU	evening set	2928 Oct 22 07:00	11° \mathcal{M} 23'39	
inferior conj	2927 Nov 14 01:43	21° \mathcal{M} 18'32	-0°28'11	min. Earth dist.	2928 Oct 26 09:15	7° \mathcal{M} 09'25	0.66174 AU
minimum elong	2927 Nov 14 02:26	21° \mathcal{M} 16'12	0°27'52	inferior conj	2928 Oct 28 01:19	5° \mathcal{M} 08'53	-1°26'52
asc. node	2927 Nov 15 10:29	19° \mathcal{M} 34'56		minimum elong	2928 Oct 28 03:40	5° \mathcal{M} 01'48	1°25'53
morning rise	2927 Nov 19 17:24	15° \mathcal{M} 22'55		asc. node	2928 Nov 01 07:33	0° \mathcal{M} 35'57	
direct	2927 Nov 23 01:58	14° \mathcal{M} 17'58			2928 Nov 02 02:06	30° \mathcal{R} \mathcal{A}	
morning max el	2927 Nov 30 04:23	18° \mathcal{M} 16'45	19°18'57	morning rise	2928 Nov 03 00:58	29° \mathcal{A} 23'49	
	2927 Dec 09 08:03	0° \mathcal{A}		direct	2928 Nov 05 23:53	28° \mathcal{A} 34'41	
greatest brilliancy	2927 Dec 13 20:59	6° \mathcal{A} 45'10	-0.7m		2928 Nov 10 00:37	0° \mathcal{M}	
desc. node	2927 Dec 23 03:18	20° \mathcal{A} 59'45		morning max el	2928 Nov 12 15:42	2° \mathcal{M} 13'40	18°32'45
morning set	2927 Dec 23 22:56	22° \mathcal{A} 15'50			2928 Dec 01 17:24	0° \mathcal{A}	
	2927 Dec 28 22:21	0° \mathcal{B}		morning set	2928 Dec 02 22:25	1° \mathcal{A} 55'47	
max. Earth dist.	2928 Jan 06 11:30	13° \mathcal{B} 23'51	1.44723 AU	desc. node	2928 Dec 09 00:21	11° \mathcal{A} 36'12	
superior conj	2928 Jan 09 17:04	18° \mathcal{B} 31'16	-1°41'58	superior conj	2928 Dec 18 19:46	27° \mathcal{A} 03'16	-1°03'07
minimum elong	2928 Jan 09 08:35	17° \mathcal{B} 57'31	1°41'15	minimum elong	2928 Dec 18 12:03	26° \mathcal{A} 33'00	1°02'10
	2928 Jan 16 20:23	0° \mathcal{A}		max. Earth dist.	2928 Dec 19 05:41	27° \mathcal{A} 42'13	1.45194 AU
evening rise	2928 Jan 24 02:40	11° \mathcal{A} 56'09			2928 Dec 20 16:49	0° \mathcal{B}	
	2928 Feb 04 02:49	0° \mathcal{H}		evening rise	2929 Jan 03 17:36	22° \mathcal{B} 07'26	
asc. node	2928 Feb 11 09:46	10° \mathcal{H} 09'51			2929 Jan 08 16:35	0° \mathcal{A}	
evening max el	2928 Feb 12 12:31	11° \mathcal{H} 21'39	18°25'46	greatest brilliancy	2929 Jan 12 18:49	6° \mathcal{A} 28'13	-0.8m
retrograde	2928 Feb 19 00:37	14° \mathcal{H} 54'35		evening max el	2929 Jan 25 22:36	24° \mathcal{A} 49'29	19°00'37
evening set	2928 Feb 22 01:47	14° \mathcal{H} 03'25		asc. node	2929 Jan 28 06:49	26° \mathcal{A} 55'06	
inferior conj	2928 Feb 27 22:46	8° \mathcal{H} 34'06	3°39'22	retrograde	2929 Feb 01 19:32	28° \mathcal{A} 42'52	
minimum elong	2928 Feb 27 22:08	8° \mathcal{H} 35'59	3°39'20	evening set	2929 Feb 05 03:00	27° \mathcal{A} 39'19	
min. Earth dist.	2928 Mar 01 04:01	5° \mathcal{H} 59'50	0.64282 AU	inferior conj	2929 Feb 10 17:37	21° \mathcal{A} 53'21	3°26'26
morning rise	2928 Mar 04 17:50	2° \mathcal{H} 25'38		minimum elong	2929 Feb 10 15:46	21° \mathcal{A} 59'10	3°26'11
	2928 Mar 08 23:59	30° \mathcal{R} \mathcal{A}		min. Earth dist.	2929 Feb 12 07:27	19° \mathcal{A} 54'16	0.65789 AU
direct	2928 Mar 11 13:54	29° \mathcal{A} 36'46		morning rise	2929 Feb 16 04:10	15° \mathcal{A} 41'08	
	2928 Mar 14 06:40	0° \mathcal{H}		direct	2929 Feb 22 16:04	12° \mathcal{A} 50'38	
desc. node	2928 Mar 20 02:29	3° \mathcal{H} 02'34		desc. node	2929 Mar 06 23:32	19° \mathcal{A} 51'43	
morning max el	2928 Mar 25 04:50	7° \mathcal{H} 30'37	27°27'58	morning max el	2929 Mar 07 14:49	20° \mathcal{A} 29'43	26°34'47
	2928 Apr 11 13:02	0° \mathcal{Y}			2929 Mar 15 19:31	0° \mathcal{H}	
	2928 Apr 28 18:43	0° \mathcal{B}			2929 Apr 04 15:54	0° \mathcal{Y}	
morning set	2928 Apr 29 08:19	1° \mathcal{B} 06'39		morning set	2929 Apr 12 14:44	14° \mathcal{Y} 20'35	

max. Earth dist.	2929 Apr 16 19:15	22°♄27'13	1.34667 AU		2930 Mar 10 02:35	0°♄	
	2929 Apr 20 13:01	0°♄		morning set	2930 Mar 26 05:09	26°♄43'23	
					2930 Mar 28 00:18	0°♄	
superior conj	2929 Apr 21 08:03	1°♄37'57	-0°49'31	max. Earth dist.	2930 Mar 29 21:33	3°♄30'15	1.36398 AU
minimum elong	2929 Apr 21 10:38	1°♄51'13	0°49'01				
asc. node	2929 Apr 26 06:08	11°♄53'54		superior conj	2930 Apr 04 22:27	15°♄10'18	-1°17'13
evening rise	2929 Apr 28 22:24	17°♄29'10		minimum elong	2930 Apr 05 02:22	15°♄29'41	1°16'37
	2929 May 05 05:47	0°♄			2930 Apr 12 06:36	0°♄	
evening max el	2929 May 18 02:19	18°♄36'13	20°57'59	evening rise	2930 Apr 13 03:04	1°♄43'41	
retrograde	2929 May 29 17:47	24°♄17'20		asc. node	2930 Apr 13 03:12	1°♄44'19	
evening set	2929 May 31 21:42	24°♄06'18		evening max el	2930 Apr 30 13:10	0°♄01'23	19°45'36
desc. node	2929 Jun 02 22:46	23°♄36'52			2930 Apr 30 12:36	0°♄	
inferior conj	2929 Jun 10 05:55	20°♄08'27	-2°06'52	retrograde	2930 May 10 10:42	4°♄49'05	
minimum elong	2929 Jun 10 00:01	20°♄16'48	2°04'50	evening set	2930 May 12 10:31	4°♄38'17	
min. Earth dist.	2929 Jun 10 22:31	19°♄44'55	0.54886 AU	desc. node	2930 May 20 19:46	0°♄52'00	
morning rise	2929 Jun 19 02:11	16°♄06'01		inferior conj	2930 May 21 05:50	0°♄36'25	-0°07'22
direct	2929 Jun 22 14:00	15°♄39'42		minimum elong	2930 May 21 05:30	0°♄36'56	0°07'14
morning max el	2929 Jul 05 13:06	21°♄51'45	22°45'19	transit middle	2930 May 21 05:30	0°♄36'56	0°07'14
	2929 Jul 12 14:00	0°♄		transit begin	2930 May 21 01:59	0°♄42'23	
asc. node	2929 Jul 23 05:24	17°♄47'39		transit end	2930 May 21 09:01	0°♄31'29	
morning set	2929 Jul 27 22:30	27°♄21'24			2930 May 22 05:16	30°♄	
	2929 Jul 29 04:34	0°♄		min. Earth dist.	2930 May 23 12:12	29°♄12'27	0.55550 AU
				morning rise	2930 May 29 22:07	26°♄05'33	
superior conj	2929 Aug 04 01:12	12°♄31'54	1°36'42	direct	2930 Jun 03 06:02	25°♄23'57	
minimum elong	2929 Aug 03 23:23	12°♄22'14	1°36'33		2930 Jun 14 11:24	0°♄	
max. Earth dist.	2929 Aug 07 00:02	18°♄45'06	1.34000 AU	morning max el	2930 Jun 17 03:53	2°♄20'23	24°27'55
evening rise	2929 Aug 11 20:21	28°♄34'29			2930 Jul 06 08:02	0°♄	
	2929 Aug 12 13:49	0°♄		asc. node	2930 Jul 10 02:27	7°♄26'25	
desc. node	2929 Aug 29 22:08	29°♄45'51		morning set	2930 Jul 12 10:19	12°♄16'58	
	2929 Aug 30 01:56	0°♄					
evening max el	2929 Sep 15 09:52	20°♄18'24	27°12'49	superior conj	2930 Jul 19 09:50	27°♄22'38	1°24'06
retrograde	2929 Sep 28 19:16	27°♄36'51		minimum elong	2930 Jul 19 07:31	27°♄10'02	1°23'48
evening set	2929 Oct 05 18:01	24°♄54'12			2930 Jul 20 14:51	0°♄	
min. Earth dist.	2929 Oct 09 13:53	21°♄15'33	0.64898 AU	max. Earth dist.	2930 Jul 21 03:23	1°♄07'33	1.32970 AU
inferior conj	2929 Oct 11 18:09	18°♄51'11	-2°26'43	evening rise	2930 Jul 26 16:52	12°♄48'27	
minimum elong	2929 Oct 11 22:09	18°♄40'05	2°25'11		2930 Aug 04 17:53	0°♄	
morning rise	2929 Oct 18 03:17	13°♄19'37		desc. node	2930 Aug 16 19:08	19°♄04'51	
asc. node	2929 Oct 19 04:37	12°♄55'59			2930 Aug 25 12:15	0°♄	
direct	2929 Oct 20 18:59	12°♄42'23		evening max el	2930 Aug 28 20:38	3°♄25'32	27°26'19
morning max el	2929 Oct 27 06:57	16°♄10'44	18°03'12	retrograde	2930 Sep 11 13:12	10°♄42'11	
	2929 Nov 06 05:59	0°♄		evening set	2930 Sep 18 17:45	8°♄06'41	
morning set	2929 Nov 14 03:15	13°♄02'44		min. Earth dist.	2930 Sep 22 09:02	5°♄00'09	0.63289 AU
	2929 Nov 24 10:47	0°♄		inferior conj	2930 Sep 25 01:33	2°♄19'48	-3°24'45
desc. node	2929 Nov 25 21:24	2°♄19'28		minimum elong	2930 Sep 25 06:52	2°♄06'33	3°23'06
					2930 Sep 27 12:04	30°♄	
superior conj	2929 Nov 28 03:19	5°♄55'19	-0°15'14	morning rise	2930 Oct 01 21:19	27°♄05'06	
minimum elong	2929 Nov 28 01:26	5°♄47'47	0°14'57	direct	2930 Oct 04 08:28	26°♄36'08	
behind sun begin	2929 Nov 27 21:18	5°♄31'18		asc. node	2930 Oct 06 01:39	26°♄50'29	
behind sun end	2929 Nov 28 05:33	6°♄04'15			2930 Oct 10 22:33	0°♄	
max. Earth dist.	2929 Dec 02 00:36	12°♄05'12	1.44927 AU	morning max el	2930 Oct 10 23:19	0°♄01'53	17°51'09
	2929 Dec 13 12:16	0°♄		morning set	2930 Oct 27 09:10	25°♄22'30	
evening rise	2929 Dec 14 11:54	1°♄31'20			2930 Oct 30 00:47	0°♄	
greatest brilliancy	2929 Dec 28 05:19	22°♄27'33	-0.7m				
	2930 Jan 02 10:49	0°♄		superior conj	2930 Nov 08 08:58	15°♄53'57	0°29'53
evening max el	2930 Jan 09 04:28	8°♄19'50	19°51'41	minimum elong	2930 Nov 08 11:56	16°♄06'15	0°29'28
asc. node	2930 Jan 15 03:52	12°♄29'27		desc. node	2930 Nov 12 18:27	23°♄06'24	
retrograde	2930 Jan 16 17:03	12°♄42'35		max. Earth dist.	2930 Nov 14 17:44	26°♄17'00	1.43960 AU
evening set	2930 Jan 20 08:15	11°♄25'24			2930 Nov 17 01:38	0°♄	
inferior conj	2930 Jan 25 18:56	5°♄25'10	3°01'35	evening rise	2930 Nov 23 20:50	10°♄38'01	
minimum elong	2930 Jan 25 16:28	5°♄33'21	3°01'02		2930 Dec 06 17:08	0°♄	
min. Earth dist.	2930 Jan 26 18:29	4°♄06'45	0.66888 AU	evening max el	2930 Dec 23 05:00	21°♄51'26	20°56'25
	2930 Jan 30 04:28	30°♄		retrograde	2930 Dec 31 14:53	26°♄50'10	
morning rise	2930 Jan 31 00:27	29°♄11'43		asc. node	2931 Jan 02 00:54	26°♄39'04	
direct	2930 Feb 06 00:00	26°♄31'28		evening set	2931 Jan 04 15:33	25°♄17'56	
	2930 Feb 13 22:09	0°♄		inferior conj	2931 Jan 10 00:17	19°♄06'14	2°27'24
morning max el	2930 Feb 17 23:42	3°♄40'39	25°19'50	minimum elong	2931 Jan 09 21:45	19°♄14'56	2°26'38
desc. node	2930 Feb 21 20:34	7°♄53'40		min. Earth dist.	2931 Jan 10 11:01	18°♄29'21	0.67580 AU

morning rise	2931 Jan 15 03:46	12°♂53'17		direct	2932 Jan 04 05:40	24°♂43'39	
direct	2931 Jan 20 12:47	10°♂31'26			2932 Jan 13 10:14	0°♂	
morning max el	2931 Jan 31 08:06	16°♂57'44	23°53'17	morning max el	2932 Jan 13 18:56	0°♂21'39	22°25'01
desc. node	2931 Feb 08 17:38	26°♂47'38		desc. node	2932 Jan 26 14:41	16°♂18'52	
	2931 Feb 11 03:51	0°♂			2932 Feb 05 00:25	0°♂	
	2931 Mar 03 03:30	0°♂		morning set	2932 Feb 16 10:27	17°♂53'42	
morning set	2931 Mar 07 21:37	7°♂58'54		max. Earth dist.	2932 Feb 21 14:03	26°♂26'55	1.40627 AU
max. Earth dist.	2931 Mar 11 17:16	14°♂38'48	1.38466 AU		2932 Feb 23 16:00	0°♂	
superior conj	2931 Mar 19 00:18	28°♂02'18	-1°41'45	superior conj	2932 Feb 29 09:03	10°♂02'41	-1°59'38
minimum elong	2931 Mar 19 04:48	28°♂23'37	1°41'15	minimum elong	2932 Feb 29 12:29	10°♂18'08	1°59'26
	2931 Mar 20 01:04	0°♂		evening rise	2932 Mar 10 12:07	28°♂47'37	
evening rise	2931 Mar 28 00:42	15°♂32'25			2932 Mar 11 03:31	0°♂	
asc. node	2931 Mar 31 00:13	21°♂19'13		asc. node	2932 Mar 16 21:15	10°♂33'06	
	2931 Apr 04 17:49	0°♂		evening max el	2932 Mar 26 17:02	24°♂42'59	18°20'06
evening max el	2931 Apr 13 11:01	12°♂05'41	18°52'44	retrograde	2932 Apr 02 22:58	28°♂19'04	
retrograde	2931 Apr 21 19:12	16°♂09'41		evening set	2932 Apr 05 09:29	27°♂55'37	
evening set	2931 Apr 23 23:33	15°♂54'06		inferior conj	2932 Apr 12 14:29	23°♂17'21	2°46'15
inferior conj	2931 May 01 23:24	11°♂36'07	1°35'28	minimum elong	2932 Apr 12 18:09	23°♂09'36	2°45'23
minimum elong	2931 May 02 02:44	11°♂30'08	1°34'24	min. Earth dist.	2932 Apr 16 00:56	20°♂25'12	0.59039 AU
min. Earth dist.	2931 May 05 04:14	9°♂19'08	0.57038 AU	morning rise	2932 Apr 20 00:06	17°♂42'15	
desc. node	2931 May 07 16:47	7°♂42'57		desc. node	2932 Apr 23 13:49	16°♂17'08	
morning rise	2931 May 10 02:46	6°♂30'24		direct	2932 Apr 26 05:45	15°♂58'04	
direct	2931 May 15 11:06	5°♂21'43		morning max el	2932 May 10 14:50	23°♂43'53	27°11'38
morning max el	2931 May 29 18:49	12°♂48'40	26°01'50		2932 May 16 06:29	0°♂	
	2931 Jun 12 05:33	0°♂			2932 Jun 04 07:46	0°♂	
morning set	2931 Jun 26 21:35	27°♂09'54		morning set	2932 Jun 10 06:39	11°♂54'44	
asc. node	2931 Jun 26 23:30	27°♂20'00		asc. node	2932 Jun 12 20:32	17°♂23'14	
	2931 Jun 28 05:34	0°♂		superior conj	2932 Jun 17 08:43	27°♂14'15	0°45'57
superior conj	2931 Jul 03 20:55	12°♂18'41	1°06'57	minimum elong	2932 Jun 17 06:51	27°♂04'01	0°45'36
minimum elong	2931 Jul 03 18:36	12°♂05'57	1°06'34	max. Earth dist.	2932 Jun 17 00:54	26°♂31'13	1.32109 AU
max. Earth dist.	2931 Jul 04 12:54	13°♂46'29	1.32343 AU		2932 Jun 18 14:48	0°♂	
evening rise	2931 Jul 10 20:38	27°♂22'27		evening rise	2932 Jun 24 05:08	12°♂08'28	
	2931 Jul 12 03:08	0°♂			2932 Jul 03 07:07	0°♂	
	2931 Jul 29 02:59	0°♂		desc. node	2932 Jul 20 13:07	25°♂03'17	
desc. node	2931 Aug 03 16:08	7°♂37'02		evening max el	2932 Jul 23 02:54	27°♂40'19	26°16'05
evening max el	2931 Aug 11 03:10	15°♂56'13	27°07'44		2932 Jul 25 18:27	0°♂	
retrograde	2931 Aug 24 23:52	23°♂09'22		retrograde	2932 Aug 06 02:23	4°♂50'49	
evening set	2931 Sep 01 02:09	20°♂53'22		evening set	2932 Aug 12 14:31	3°♂06'43	
min. Earth dist.	2931 Sep 04 17:26	18°♂10'09	0.61389 AU	min. Earth dist.	2932 Aug 16 15:48	0°♂31'16	0.59326 AU
inferior conj	2931 Sep 07 20:19	15°♂25'53	-4°16'15		2932 Aug 17 08:37	30°♂	
minimum elong	2931 Sep 08 01:50	15°♂13'44	4°15'02	inferior conj	2932 Aug 19 22:54	28°♂00'12	-4°53'15
morning rise	2931 Sep 15 03:14	10°♂31'39		minimum elong	2932 Aug 20 02:30	27°♂53'17	4°52'52
direct	2931 Sep 17 12:40	10°♂07'59		morning rise	2932 Aug 27 16:39	23°♂28'53	
asc. node	2931 Sep 22 22:42	12°♂14'01		direct	2932 Aug 30 03:08	23°♂08'18	
morning max el	2931 Sep 24 13:45	13°♂39'19	17°57'37	morning max el	2932 Sep 06 23:06	26°♂54'51	18°23'53
	2931 Oct 05 16:14	0°♂		asc. node	2932 Sep 08 19:45	28°♂53'13	
morning set	2931 Oct 10 09:43	8°♂35'14			2932 Sep 09 17:50	0°♂	
				morning set	2932 Sep 22 23:33	22°♂25'50	
superior conj	2931 Oct 20 17:36	27°♂11'49	1°05'01		2932 Sep 26 22:25	0°♂	
minimum elong	2931 Oct 20 21:59	27°♂30'57	1°04'29	superior conj	2932 Oct 02 01:48	9°♂39'03	1°28'29
	2931 Oct 22 08:21	0°♂		minimum elong	2932 Oct 02 05:16	9°♂55'02	1°28'10
max. Earth dist.	2931 Oct 28 06:33	10°♂00'17	1.42407 AU	max. Earth dist.	2932 Oct 09 13:40	23°♂00'47	1.40468 AU
desc. node	2931 Oct 30 15:28	13°♂53'24			2932 Oct 13 16:52	0°♂	
evening rise	2931 Nov 03 12:52	20°♂07'46		evening rise	2932 Oct 14 00:47	0°♂32'48	
	2931 Nov 09 21:28	0°♂		desc. node	2932 Oct 16 12:28	4°♂36'58	
	2931 Dec 01 05:08	0°♂			2932 Nov 02 08:06	0°♂	
evening max el	2931 Dec 05 23:59	5°♂24'04	22°11'11	evening max el	2932 Nov 17 14:35	18°♂58'45	23°30'56
retrograde	2931 Dec 15 11:20	11°♂02'15		retrograde	2932 Nov 28 04:54	25°♂14'49	
evening set	2931 Dec 19 23:12	9°♂13'51		evening set	2932 Dec 03 05:33	23°♂09'50	
asc. node	2931 Dec 19 21:55	9°♂16'27		asc. node	2932 Dec 05 18:58	20°♂30'15	
inferior conj	2931 Dec 25 07:37	2°♂53'57	1°45'38	min. Earth dist.	2932 Dec 08 03:30	17°♂25'21	0.67843 AU
minimum elong	2931 Dec 25 05:29	3°♂01'20	1°44'50	inferior conj	2932 Dec 08 15:06	16°♂45'39	0°57'31
min. Earth dist.	2931 Dec 25 06:47	2°♂56'50	0.67887 AU	minimum elong	2932 Dec 08 13:48	16°♂50'07	0°56'59
	2931 Dec 27 11:07	30°♂		morning rise	2932 Dec 13 22:01	10°♂38'46	
morning rise	2931 Dec 30 11:39	26°♂43'09					

direct	2932 Dec 18 01:43	9°♊02'08		transit end	2933 Nov 22 23:34	0°♊31'20	
morning max el	2932 Dec 26 11:30	13°♊54'38	21°02'58	asc. node	2933 Nov 22 16:00	0°♊56'23	
	2933 Jan 08 03:42	0°♊			2933 Nov 23 09:04	30°♊	
desc. node	2933 Jan 12 11:42	6°♊16'24		morning rise	2933 Nov 28 08:55	24°♊39'06	
morning set	2933 Jan 25 19:26	26°♊31'12		direct	2933 Dec 01 23:55	23°♊23'25	
	2933 Jan 28 00:27	0°♊		morning max el	2933 Dec 09 11:48	27°♊38'57	19°52'40
max. Earth dist.	2933 Feb 02 16:47	9°♊07'45	1.42597 AU		2933 Dec 11 15:49	0°♊	
				desc. node	2933 Dec 30 08:45	26°♊33'24	
superior conj	2933 Feb 09 19:23	20°♊58'27	-2°06'16		2934 Jan 01 14:47	0°♊	
minimum elong	2933 Feb 09 19:06	20°♊57'17	2°06'16	morning set	2934 Jan 04 15:17	4°♊38'58	
	2933 Feb 15 00:38	0°♊		max. Earth dist.	2934 Jan 16 03:02	22°♊38'41	1.44124 AU
evening rise	2933 Feb 21 09:18	11°♊19'18			2934 Jan 20 16:57	0°♊	
asc. node	2933 Mar 03 18:16	29°♊18'19					
	2933 Mar 04 04:58	0°♊		superior conj	2934 Jan 21 03:45	0°♊43'50	-1°56'27
evening max el	2933 Mar 10 03:55	7°♊43'46	18°07'21	minimum elong	2934 Jan 20 21:46	0°♊19'31	1°56'07
retrograde	2933 Mar 16 19:04	11°♊07'44		evening rise	2934 Feb 03 11:55	22°♊59'23	
evening set	2933 Mar 19 11:27	10°♊34'24			2934 Feb 07 14:23	0°♊	
inferior conj	2933 Mar 26 01:03	5°♊35'39	3°25'36	asc. node	2934 Feb 18 15:18	17°♊26'06	
minimum elong	2933 Mar 26 03:13	5°♊30'21	3°25'19	evening max el	2934 Feb 21 16:37	21°♊00'09	18°13'47
min. Earth dist.	2933 Mar 29 04:47	2°♊32'53	0.61206 AU	retrograde	2934 Feb 28 03:10	24°♊25'57	
	2933 Apr 01 06:32	30°♊		evening set	2934 Mar 03 01:07	23°♊41'31	
morning rise	2933 Apr 01 17:10	29°♊41'32		inferior conj	2934 Mar 09 03:10	18°♊23'07	3°39'54
direct	2933 Apr 08 11:51	27°♊23'08		minimum elong	2934 Mar 09 03:28	18°♊22'19	3°39'53
desc. node	2933 Apr 10 10:51	27°♊34'01		min. Earth dist.	2934 Mar 11 17:26	15°♊33'16	0.63247 AU
	2933 Apr 16 06:05	0°♊		morning rise	2934 Mar 15 04:50	12°♊18'30	
morning max el	2933 Apr 22 17:06	5°♊18'53	27°47'02	direct	2934 Mar 22 03:01	9°♊36'28	
	2933 May 11 04:13	0°♊		desc. node	2934 Mar 28 07:54	11°♊26'25	
morning set	2933 May 25 11:40	26°♊25'00		morning max el	2934 Apr 05 00:14	17°♊33'34	27°45'00
	2933 May 27 05:04	0°♊			2934 Apr 15 09:31	0°♊	
asc. node	2933 May 30 17:34	7°♊31'16			2934 May 03 23:13	0°♊	
max. Earth dist.	2933 May 31 11:33	9°♊08'53	1.32269 AU	morning set	2934 May 09 10:21	10°♊33'14	
				max. Earth dist.	2934 May 14 16:57	21°♊26'50	1.32847 AU
superior conj	2933 Jun 01 19:30	12°♊03'20	0°21'47				
minimum elong	2933 Jun 01 18:31	11°♊57'57	0°21'34	superior conj	2934 May 17 03:30	26°♊40'01	-0°04'53
evening rise	2933 Jun 08 16:17	26°♊59'23		minimum elong	2934 May 17 03:45	26°♊41'17	0°04'50
	2933 Jun 10 02:34	0°♊		behind sun begin	2934 May 16 22:41	26°♊14'05	
	2933 Jun 27 08:22	0°♊		behind sun end	2934 May 17 08:48	27°♊08'31	
evening max el	2933 Jul 04 19:38	8°♊39'05	24°56'51	asc. node	2934 May 17 14:37	27°♊39'53	
desc. node	2933 Jul 07 10:07	10°♊57'03			2934 May 18 16:32	0°♊	
retrograde	2933 Jul 18 18:50	15°♊43'53		evening rise	2934 May 24 04:08	11°♊48'42	
evening set	2933 Jul 24 03:10	14°♊38'40			2934 Jun 02 10:55	0°♊	
min. Earth dist.	2933 Jul 29 07:09	11°♊52'09	0.57341 AU	evening max el	2934 Jun 16 09:09	19°♊09'32	23°22'09
inferior conj	2933 Aug 01 06:15	9°♊54'05	-5°03'25	desc. node	2934 Jun 24 07:09	24°♊43'53	
minimum elong	2933 Aug 01 05:09	9°♊55'54	5°03'23	retrograde	2934 Jun 29 22:36	25°♊56'14	
morning rise	2933 Aug 09 09:43	5°♊44'45		evening set	2934 Jul 03 18:54	25°♊23'51	
direct	2933 Aug 11 23:45	5°♊25'32		min. Earth dist.	2934 Jul 10 19:01	22°♊11'22	0.55774 AU
morning max el	2933 Aug 21 00:11	9°♊39'08	19°11'13	inferior conj	2934 Jul 12 17:38	21°♊02'33	-4°31'44
asc. node	2933 Aug 26 16:48	16°♊33'02		minimum elong	2934 Jul 12 11:03	21°♊12'19	4°30'36
	2933 Sep 03 12:06	0°♊		morning rise	2934 Jul 21 05:39	17°♊08'24	
morning set	2933 Sep 06 22:42	6°♊43'58		direct	2934 Jul 24 01:25	16°♊48'56	
				morning max el	2934 Aug 03 14:16	21°♊42'05	20°20'01
superior conj	2933 Sep 15 04:04	23°♊00'12	1°41'16		2934 Aug 10 10:41	0°♊	
minimum elong	2933 Sep 15 05:47	23°♊08'34	1°41'11	asc. node	2934 Aug 13 13:52	4°♊59'03	
	2933 Sep 18 20:11	0°♊		morning set	2934 Aug 22 04:07	21°♊20'27	
max. Earth dist.	2933 Sep 21 17:36	5°♊19'58	1.38398 AU		2934 Aug 26 09:07	0°♊	
evening rise	2933 Sep 25 12:41	12°♊05'03					
desc. node	2933 Oct 03 09:29	25°♊13'41		superior conj	2934 Aug 29 19:16	6°♊59'45	1°45'05
	2933 Oct 06 10:07	0°♊		minimum elong	2934 Aug 29 19:17	6°♊59'49	1°45'05
	2933 Oct 28 14:13	0°♊		max. Earth dist.	2934 Sep 03 23:49	17°♊14'56	1.36445 AU
evening max el	2933 Oct 31 03:08	2°♊38'13	24°49'13	evening rise	2934 Sep 07 21:59	24°♊37'22	
retrograde	2933 Nov 11 18:36	9°♊24'35			2934 Sep 10 21:36	0°♊	
evening set	2933 Nov 17 09:01	7°♊03'55		desc. node	2934 Sep 20 06:31	15°♊38'07	
min. Earth dist.	2933 Nov 21 22:49	1°♊53'14	0.67466 AU		2934 Sep 30 00:16	0°♊	
inferior conj	2933 Nov 22 21:01	0°♊39'47	0°04'18	evening max el	2934 Oct 13 15:26	16°♊19'48	25°58'50
minimum elong	2933 Nov 22 20:54	0°♊40'09	0°04'16	retrograde	2934 Oct 26 03:21	23°♊25'49	
transit middle	2933 Nov 22 20:54	0°♊40'09	0°04'16	evening set	2934 Nov 01 07:50	20°♊52'04	
transit begin	2933 Nov 22 18:15	0°♊48'57		min. Earth dist.	2934 Nov 05 14:16	16°♊16'47	0.66752 AU

inferior conj	2934 Nov 06 23:30	14° \mathbb{M} 32'41	-0°52'48	evening set	2935 Oct 15 23:52	4° \mathbb{M} 30'26	
minimum elong	2934 Nov 07 00:54	14° \mathbb{M} 28'18	0°52'11	min. Earth dist.	2935 Oct 19 23:22	0° \mathbb{M} 31'32	0.65686 AU
asc. node	2934 Nov 09 13:04	11° \mathbb{M} 28'51			2935 Oct 20 10:21	30° \mathbb{R} $\underline{\mathbb{A}}$	
morning rise	2934 Nov 12 18:20	8° \mathbb{M} 40'53		inferior conj	2935 Oct 21 20:31	28° $\underline{\mathbb{A}}$ 20'22	-1°52'13
direct	2934 Nov 15 22:35	7° \mathbb{M} 43'01		minimum elong	2935 Oct 21 23:35	28° $\underline{\mathbb{A}}$ 11'27	1°50'59
morning max el	2934 Nov 22 19:33	11° \mathbb{M} 32'08	18°57'13	asc. node	2935 Oct 27 10:07	23° $\underline{\mathbb{A}}$ 00'10	
	2934 Dec 06 07:16	0° \mathbb{A}		morning rise	2935 Oct 28 00:01	22° $\underline{\mathbb{A}}$ 40'38	
morning set	2934 Dec 14 23:30	13° \mathbb{A} 31'22		direct	2935 Oct 30 19:42	21° $\underline{\mathbb{A}}$ 56'53	
desc. node	2934 Dec 17 05:48	17° \mathbb{A} 03'56		morning max el	2935 Nov 06 08:50	25° $\underline{\mathbb{A}}$ 29'51	18°18'02
	2934 Dec 25 12:01	0° \mathbb{B}			2935 Nov 10 04:16	0° \mathbb{M}	
max. Earth dist.	2934 Dec 29 19:23	6° \mathbb{B} 45'42	1.45018 AU	morning set	2935 Nov 25 11:36	23° \mathbb{M} 49'28	
					2935 Nov 29 07:10	0° \mathbb{A}	
superior conj	2934 Dec 31 13:15	9° \mathbb{B} 30'32	-1°27'20	desc. node	2935 Dec 04 02:50	7° \mathbb{A} 43'47	
minimum elong	2934 Dec 31 04:12	8° \mathbb{B} 54'51	1°26'24				
	2935 Jan 13 09:21	0° \mathbb{A}		superior conj	2935 Dec 10 15:13	18° \mathbb{A} 03'10	-0°43'07
evening rise	2935 Jan 15 16:13	3° \mathbb{A} 42'29		minimum elong	2935 Dec 10 09:42	17° \mathbb{A} 41'29	0°42'24
	2935 Feb 01 11:15	0° \mathbb{H}		max. Earth dist.	2935 Dec 12 14:48	21° \mathbb{A} 10'20	1.45177 AU
evening max el	2935 Feb 05 04:20	4° \mathbb{H} 25'13	18°38'36		2935 Dec 18 06:01	0° \mathbb{B}	
asc. node	2935 Feb 05 12:20	4° \mathbb{H} 45'12		evening rise	2935 Dec 26 21:35	13° \mathbb{B} 31'34	
retrograde	2935 Feb 11 19:07	8° \mathbb{H} 05'14			2936 Jan 06 11:23	0° \mathbb{A}	
evening set	2935 Feb 14 22:56	7° \mathbb{H} 08'46		greatest brilliancy	2936 Jan 07 03:04	1° \mathbb{A} 00'04	-0.7m
inferior conj	2935 Feb 20 16:52	1° \mathbb{H} 32'13	3°35'31	evening max el	2936 Jan 19 12:47	17° \mathbb{A} 54'12	19°20'30
minimum elong	2935 Feb 20 15:39	1° \mathbb{H} 35'55	3°35'25	asc. node	2936 Jan 23 09:22	21° \mathbb{A} 02'07	
	2935 Feb 21 23:22	30° \mathbb{R} \mathbb{A}		retrograde	2936 Jan 26 15:27	21° \mathbb{A} 58'58	
min. Earth dist.	2935 Feb 22 15:29	29° \mathbb{A} 12'01	0.64972 AU	evening set	2936 Jan 30 02:07	20° \mathbb{A} 49'35	
morning rise	2935 Feb 26 07:53	25° \mathbb{A} 22'07		inferior conj	2936 Feb 04 14:45	14° \mathbb{A} 57'01	3°17'11
direct	2935 Mar 05 01:17	22° \mathbb{A} 30'55		minimum elong	2936 Feb 04 12:34	15° \mathbb{A} 04'03	3°16'48
desc. node	2935 Mar 15 04:58	27° \mathbb{A} 20'53		min. Earth dist.	2936 Feb 05 22:14	13° \mathbb{A} 15'12	0.66304 AU
	2935 Mar 18 02:01	0° \mathbb{H}		morning rise	2936 Feb 09 22:47	8° \mathbb{A} 44'10	
morning max el	2935 Mar 18 09:48	0° \mathbb{H} 19'26	27°08'42	direct	2936 Feb 16 05:44	5° \mathbb{A} 57'08	
	2935 Apr 09 09:14	0° \mathbb{Y}		morning max el	2936 Feb 28 19:28	13° \mathbb{A} 24'48	26°05'08
morning set	2935 Apr 22 23:48	24° \mathbb{Y} 10'23		desc. node	2936 Mar 01 02:01	14° \mathbb{A} 43'58	
	2935 Apr 25 22:46	0° \mathbb{B}			2936 Mar 13 06:06	0° \mathbb{H}	
max. Earth dist.	2935 Apr 27 13:27	3° \mathbb{B} 15'27	1.33869 AU		2936 Apr 01 02:34	0° \mathbb{Y}	
				morning set	2936 Apr 04 23:59	7° \mathbb{Y} 03'58	
superior conj	2935 May 01 06:42	10° \mathbb{B} 57'49	-0°33'03	max. Earth dist.	2936 Apr 08 22:33	14° \mathbb{Y} 32'25	1.35351 AU
minimum elong	2935 May 01 08:24	11° \mathbb{B} 06'44	0°32'42				
asc. node	2935 May 04 11:39	17° \mathbb{B} 45'08		superior conj	2936 Apr 14 02:33	24° \mathbb{Y} 48'29	-1°01'29
evening rise	2935 May 08 14:52	26° \mathbb{B} 30'09		minimum elong	2936 Apr 14 05:44	25° \mathbb{Y} 04'40	1°00'55
	2935 May 10 07:19	0° \mathbb{I}			2936 Apr 16 15:23	0° \mathbb{B}	
evening max el	2935 May 29 02:40	29° \mathbb{I} 42'18	21°47'27	asc. node	2936 Apr 20 08:41	7° \mathbb{B} 42'03	
	2935 May 29 10:02	0° \mathbb{E}		evening rise	2936 Apr 21 22:21	10° \mathbb{B} 56'09	
retrograde	2935 Jun 10 14:48	5° \mathbb{E} 52'00			2936 May 02 01:32	0° \mathbb{I}	
desc. node	2935 Jun 11 04:10	5° \mathbb{E} 51'17		evening max el	2936 May 10 06:20	10° \mathbb{I} 43'26	20°24'55
evening set	2935 Jun 13 05:02	5° \mathbb{E} 36'53		retrograde	2936 May 21 04:08	16° \mathbb{I} 02'02	
inferior conj	2935 Jun 22 14:22	1° \mathbb{E} 34'12	-3°10'57	evening set	2936 May 23 04:44	15° \mathbb{I} 51'49	
minimum elong	2935 Jun 22 06:25	1° \mathbb{E} 45'18	3°08'34	desc. node	2936 May 28 01:12	14° \mathbb{I} 14'46	
min. Earth dist.	2935 Jun 22 06:11	1° \mathbb{E} 45'38	0.54947 AU	inferior conj	2936 Jun 01 08:46	11° \mathbb{I} 53'46	-1°16'02
	2935 Jun 25 11:28	30° \mathbb{R} \mathbb{I}		minimum elong	2936 Jun 01 05:11	11° \mathbb{I} 59'00	1°14'42
morning rise	2935 Jul 01 09:05	27° \mathbb{I} 40'58		min. Earth dist.	2936 Jun 02 18:31	11° \mathbb{I} 04'36	0.55052 AU
direct	2935 Jul 04 13:29	27° \mathbb{I} 18'42		morning rise	2936 Jun 10 04:34	7° \mathbb{I} 41'14	
	2935 Jul 12 21:08	0° \mathbb{E}		direct	2936 Jun 13 23:49	7° \mathbb{I} 10'03	
morning max el	2935 Jul 16 16:47	3° \mathbb{E} 00'35	21°48'11	morning max el	2936 Jun 27 10:26	13° \mathbb{I} 41'49	23°29'02
asc. node	2935 Jul 31 10:55	24° \mathbb{E} 00'21			2936 Jul 09 23:07	0° \mathbb{E}	
	2935 Aug 03 13:14	0° \mathbb{Q}		asc. node	2936 Jul 17 07:58	13° \mathbb{E} 27'21	
morning set	2935 Aug 06 13:27	6° \mathbb{Q} 08'59		morning set	2936 Jul 21 00:49	21° \mathbb{E} 03'23	
					2936 Jul 25 05:05	0° \mathbb{Q}	
superior conj	2935 Aug 13 19:30	21° \mathbb{Q} 26'20	1°41'33				
minimum elong	2935 Aug 13 18:12	21° \mathbb{Q} 19'33	1°41'28	superior conj	2936 Jul 28 01:44	6° \mathbb{Q} 10'23	1°31'58
max. Earth dist.	2935 Aug 17 13:20	29° \mathbb{Q} 09'53	1.34789 AU	minimum elong	2936 Jul 27 23:38	5° \mathbb{Q} 59'09	1°31'45
	2935 Aug 17 23:14	0° \mathbb{M}		max. Earth dist.	2936 Jul 30 11:50	11° \mathbb{Q} 20'25	1.33513 AU
evening rise	2935 Aug 22 00:14	7° \mathbb{M} 58'11		evening rise	2936 Aug 04 15:06	21° \mathbb{Q} 55'25	
	2935 Sep 03 11:45	0° \mathbb{A}			2936 Aug 08 18:59	0° \mathbb{M}	
desc. node	2935 Sep 07 03:31	5° \mathbb{A} 44'04		desc. node	2936 Aug 24 00:32	25° \mathbb{M} 23'23	
evening max el	2935 Sep 26 03:57	29° \mathbb{A} 56'31	26°52'09		2936 Aug 27 07:10	0° \mathbb{A}	
	2935 Sep 26 05:24	0° \mathbb{M}		evening max el	2936 Sep 07 15:41	13° \mathbb{A} 17'26	27°22'04
retrograde	2935 Oct 09 06:44	7° \mathbb{M} 12'11		retrograde	2936 Sep 21 04:19	20° \mathbb{A} 35'36	

evening set	2936 Sep 28 06:31	17° Ω 54'14			2937 Aug 25 15:53	0° Ω	
min. Earth dist.	2936 Oct 02 00:01	14° Ω 30'17	0.64261 AU	retrograde	2937 Sep 03 19:36	3° Ω 26'06	
inferior conj	2936 Oct 04 09:41	11° Ω 57'47	-2°51'45	evening set	2937 Sep 11 00:20	0° Ω 57'02	
minimum elong	2936 Oct 04 14:19	11° Ω 45'29	2°50'07		2937 Sep 12 07:24	30° \mathbb{R} \mathbb{M}	
morning rise	2936 Oct 10 23:15	6° Ω 33'16		min. Earth dist.	2937 Sep 14 14:38	28° \mathbb{M} 02'00	0.62507 AU
asc. node	2936 Oct 13 07:10	6° Ω 00'15		inferior conj	2937 Sep 17 12:06	25° \mathbb{M} 17'50	-3°47'49
direct	2936 Oct 13 12:43	5° Ω 59'59		minimum elong	2937 Sep 17 17:42	25° \mathbb{M} 04'34	3°46'16
morning max el	2936 Oct 20 01:00	9° Ω 25'56	17°55'53	morning rise	2937 Sep 24 12:38	20° \mathbb{M} 11'43	
	2936 Nov 02 22:14	0° \mathbb{M}		direct	2937 Sep 26 22:35	19° \mathbb{M} 45'29	
morning set	2936 Nov 06 03:53	5° \mathbb{M} 30'08		asc. node	2937 Sep 30 04:13	20° \mathbb{M} 33'57	
				morning max el	2937 Oct 03 17:00	23° \mathbb{M} 12'44	17°51'33
superior conj	2936 Nov 19 06:51	27° \mathbb{M} 20'39	0°04'51		2937 Oct 09 01:28	0° Ω	
minimum elong	2936 Nov 19 07:24	27° \mathbb{M} 22'55	0°04'46	morning set	2937 Oct 19 18:28	18° Ω 14'31	
behind sun begin	2936 Nov 18 21:37	26° \mathbb{M} 43'15			2937 Oct 26 09:54	0° \mathbb{M}	
behind sun end	2936 Nov 19 17:11	28° \mathbb{M} 02'30					
desc. node	2936 Nov 19 23:51	28° \mathbb{M} 29'23		superior conj	2937 Oct 31 00:04	7° \mathbb{M} 53'42	0°46'11
	2936 Nov 20 22:22	0° \mathbb{X}		minimum elong	2937 Oct 31 04:02	8° \mathbb{M} 10'28	0°45'39
max. Earth dist.	2936 Nov 24 09:31	5° \mathbb{X} 31'57	1.44595 AU	desc. node	2937 Nov 06 20:51	19° \mathbb{M} 16'49	
evening rise	2936 Dec 05 10:08	22° \mathbb{X} 44'10		max. Earth dist.	2937 Nov 07 00:29	19° \mathbb{M} 31'33	1.43358 AU
	2936 Dec 10 03:59	0° \mathbb{Z}			2937 Nov 13 14:23	0° \mathbb{X}	
	2936 Dec 31 08:44	0° \approx		evening rise	2937 Nov 14 19:59	1° \mathbb{X} 55'25	
evening max el	2937 Jan 01 16:22	1° \approx 25'07	20°17'40		2937 Dec 03 17:21	0° \mathbb{Z}	
asc. node	2937 Jan 09 06:25	6° \approx 02'29		evening max el	2937 Dec 15 14:24	14° \mathbb{Z} 56'50	21°27'15
retrograde	2937 Jan 09 13:30	6° \approx 02'58		retrograde	2937 Dec 24 11:00	20° \mathbb{Z} 12'42	
evening set	2937 Jan 13 08:28	4° \approx 39'31		asc. node	2937 Dec 27 03:27	19° \mathbb{Z} 33'07	
	2937 Jan 17 16:21	30° \mathbb{R} \mathbb{Z}		evening set	2937 Dec 28 16:06	18° \mathbb{Z} 33'55	
inferior conj	2937 Jan 18 18:04	28° \mathbb{Z} 33'45	2°48'09	inferior conj	2938 Jan 03 00:31	12° \mathbb{Z} 18'14	2°10'32
minimum elong	2937 Jan 18 15:31	28° \mathbb{Z} 42'23	2°47'28	minimum elong	2938 Jan 02 22:06	12° \mathbb{Z} 26'35	2°09'43
min. Earth dist.	2937 Jan 19 11:56	27° \mathbb{Z} 33'13	0.67227 AU	min. Earth dist.	2938 Jan 03 06:16	11° \mathbb{Z} 58'21	0.67756 AU
morning rise	2937 Jan 23 22:22	22° \mathbb{Z} 20'08		morning rise	2938 Jan 08 03:55	6° \mathbb{Z} 05'42	
direct	2937 Jan 29 15:45	19° \mathbb{Z} 47'11		direct	2938 Jan 13 06:30	3° \mathbb{Z} 52'58	
morning max el	2937 Feb 10 04:10	26° \mathbb{Z} 39'56	24°43'52	morning max el	2938 Jan 23 13:07	9° \mathbb{Z} 59'31	23°15'17
	2937 Feb 13 06:31	0° \approx		desc. node	2938 Feb 02 20:06	22° \mathbb{Z} 21'57	
desc. node	2937 Feb 15 23:04	3° \approx 10'35			2938 Feb 08 08:05	0° \approx	
	2937 Mar 06 20:46	0° \mathbb{X}		morning set	2938 Feb 27 11:03	29° \approx 42'33	
morning set	2937 Mar 18 05:49	19° \mathbb{X} 00'13			2938 Feb 27 15:12	0° \mathbb{X}	
max. Earth dist.	2937 Mar 21 21:15	25° \mathbb{X} 33'35	1.37246 AU	max. Earth dist.	2938 Mar 03 15:51	6° \mathbb{X} 52'45	1.39388 AU
	2937 Mar 24 06:43	0° \mathbb{Y}					
superior conj	2937 Mar 28 12:02	8° \mathbb{Y} 04'24	-1°28'12	superior conj	2938 Mar 11 07:10	20° \mathbb{X} 35'38	-1°50'24
minimum elong	2937 Mar 28 16:19	8° \mathbb{Y} 25'19	1°27'36	minimum elong	2938 Mar 11 11:29	20° \mathbb{X} 55'39	1°50'01
evening rise	2937 Apr 06 00:21	25° \mathbb{Y} 00'24			2938 Mar 16 06:54	0° \mathbb{Y}	
asc. node	2937 Apr 07 05:42	27° \mathbb{Y} 26'21		evening rise	2938 Mar 20 18:01	8° \mathbb{Y} 35'28	
	2937 Apr 08 12:56	0° \mathbb{X}		asc. node	2938 Mar 25 02:45	16° \mathbb{Y} 53'02	
evening max el	2937 Apr 22 21:59	22° \mathbb{X} 24'54	19°20'38		2938 Apr 01 23:55	0° \mathbb{X}	
retrograde	2937 May 02 02:53	26° \mathbb{X} 52'40		evening max el	2938 Apr 05 23:45	4° \mathbb{X} 44'29	18°36'27
evening set	2937 May 04 03:50	26° \mathbb{X} 40'28		retrograde	2938 Apr 13 19:18	8° \mathbb{X} 34'19	
inferior conj	2937 May 12 15:10	22° \mathbb{X} 32'42	0°39'41	evening set	2938 Apr 16 02:15	8° \mathbb{X} 15'44	
minimum elong	2937 May 12 16:48	22° \mathbb{X} 30'01	0°39'06	inferior conj	2938 Apr 23 17:48	3° \mathbb{X} 49'44	2°09'37
desc. node	2937 May 14 22:13	21° \mathbb{X} 02'08		minimum elong	2938 Apr 23 21:37	3° \mathbb{X} 42'23	2°08'32
min. Earth dist.	2937 May 15 09:12	20° \mathbb{X} 44'30	0.56091 AU	min. Earth dist.	2938 Apr 27 03:09	1° \mathbb{X} 14'42	0.57844 AU
morning rise	2937 May 21 02:48	17° \mathbb{X} 46'33			2938 Apr 28 22:24	30° \mathbb{R} \mathbb{Y}	
direct	2937 May 25 20:46	16° \mathbb{X} 54'56		morning rise	2938 May 01 13:50	28° \mathbb{Y} 30'18	
morning max el	2937 Jun 09 00:39	24° \mathbb{X} 06'49	25°09'59	desc. node	2938 May 01 19:14	28° \mathbb{Y} 24'01	
	2937 Jun 14 09:29	0° \mathbb{I}		direct	2938 May 07 08:12	27° \mathbb{Y} 06'38	
	2937 Jul 02 15:25	0° \mathbb{O}			2938 May 15 22:01	0° \mathbb{X}	
asc. node	2937 Jul 04 05:00	3° \mathbb{O} 12'50		morning max el	2938 May 21 17:12	4° \mathbb{X} 43'32	26°35'16
morning set	2937 Jul 05 12:33	5° \mathbb{O} 58'13			2938 Jun 09 03:52	0° \mathbb{I}	
				morning set	2938 Jun 19 23:05	20° \mathbb{I} 48'28	
superior conj	2937 Jul 12 11:37	21° \mathbb{O} 04'05	1°17'21	asc. node	2938 Jun 21 02:01	23° \mathbb{I} 11'12	
minimum elong	2937 Jul 12 09:15	20° \mathbb{O} 51'06	1°17'00		2938 Jun 24 05:34	0° \mathbb{O}	
max. Earth dist.	2937 Jul 13 17:56	23° \mathbb{O} 49'28	1.32648 AU	superior conj	2938 Jun 26 23:15	6° \mathbb{O} 01'05	0°58'30
	2937 Jul 16 14:42	0° \mathbb{O}		minimum elong	2938 Jun 26 21:04	5° \mathbb{O} 49'07	0°58'06
evening rise	2937 Jul 19 14:59	0° \mathbb{O} 18'34		max. Earth dist.	2938 Jun 27 04:48	6° \mathbb{O} 31'44	1.32187 AU
	2937 Aug 01 08:10	0° \mathbb{M}		evening rise	2938 Jul 03 21:03	20° \mathbb{O} 59'04	
desc. node	2937 Aug 10 21:32	14° \mathbb{M} 24'37			2938 Jul 08 07:31	0° \mathbb{O}	
evening max el	2937 Aug 21 00:44	26° \mathbb{M} 09'56	27°22'29		2938 Jul 26 17:28	0° \mathbb{M}	




























































































































desc. node	2938 Jul 28 18:32	2° \mathbb{M} 32'12		evening max el	2939 Jul 16 01:37	19° Ω 47'15	25°45'20
evening max el	2938 Aug 03 04:47	8° \mathbb{M} 22'48	26°49'51	retrograde	2939 Jul 30 01:23	26° Ω 55'12	
retrograde	2938 Aug 17 03:16	15° \mathbb{M} 35'01		evening set	2939 Aug 05 03:20	25° Ω 27'40	
evening set	2938 Aug 24 00:53	13° \mathbb{M} 31'30		min. Earth dist.	2939 Aug 09 13:51	22° Ω 49'43	0.58454 AU
min. Earth dist.	2938 Aug 27 18:53	10° \mathbb{M} 53'32	0.60514 AU	inferior conj	2939 Aug 12 19:13	20° Ω 30'41	-5°01'46
inferior conj	2938 Aug 31 00:31	8° \mathbb{M} 12'34	-4°34'24	minimum elong	2939 Aug 12 21:08	20° Ω 27'13	5°01'40
minimum elong	2938 Aug 31 05:32	8° \mathbb{M} 02'05	4°33'31	morning rise	2939 Aug 20 17:11	16° Ω 08'46	
morning rise	2938 Sep 07 12:06	3° \mathbb{M} 27'39		direct	2939 Aug 23 05:03	15° Ω 48'48	
direct	2938 Sep 09 21:30	3° \mathbb{M} 05'37		morning max el	2939 Aug 31 11:48	19° Ω 45'20	18°41'23
morning max el	2938 Sep 17 05:42	6° \mathbb{M} 42'36	18°06'14	asc. node	2939 Sep 03 22:18	23° Ω 38'20	
asc. node	2938 Sep 17 01:15	6° \mathbb{M} 31'58			2939 Sep 08 05:08	0° \mathbb{M}	
	2938 Oct 02 02:41	0° Ω		morning set	2939 Sep 16 19:36	15° \mathbb{M} 49'32	
morning set	2938 Oct 03 01:21	1° Ω 45'49			2939 Sep 24 03:11	0° Ω	
superior conj	2938 Oct 12 19:26	19° Ω 43'24	1°16'21	superior conj	2939 Sep 25 11:59	2° Ω 35'17	1°35'07
minimum elong	2938 Oct 12 23:37	20° Ω 02'05	1°15'53	minimum elong	2939 Sep 25 14:45	2° Ω 48'19	1°34'54
	2938 Oct 18 16:44	0° \mathbb{M}		max. Earth dist.	2939 Oct 02 16:31	15° Ω 41'31	1.39595 AU
max. Earth dist.	2938 Oct 20 10:44	2° \mathbb{M} 57'36	1.41622 AU	evening rise	2939 Oct 06 17:44	22° Ω 40'49	
desc. node	2938 Oct 24 17:52	10° \mathbb{M} 03'14			2939 Oct 11 03:52	0° \mathbb{M}	
evening rise	2938 Oct 25 19:35	11° \mathbb{M} 47'10		desc. node	2939 Oct 11 14:54	0° \mathbb{M} 44'34	
	2938 Nov 06 14:44	0° \mathbb{M}			2939 Oct 31 13:18	0° \mathbb{M}	
evening max el	2938 Nov 28 07:28	28° \mathbb{M} 30'58	22°44'50	evening max el	2939 Nov 10 21:06	12° \mathbb{M} 08'30	24°04'46
	2938 Nov 29 20:26	0° \mathbb{M}		retrograde	2939 Nov 21 22:13	18° \mathbb{M} 37'47	
retrograde	2938 Dec 08 06:18	4° \mathbb{M} 25'25		evening set	2939 Nov 27 04:45	16° \mathbb{M} 25'55	
evening set	2938 Dec 12 23:23	2° \mathbb{M} 30'13		asc. node	2939 Nov 30 21:32	12° \mathbb{M} 20'50	
asc. node	2938 Dec 14 00:30	1° \mathbb{M} 32'39		min. Earth dist.	2939 Dec 01 23:08	10° \mathbb{M} 55'50	0.67734 AU
	2938 Dec 15 10:00	30° \mathbb{M}		inferior conj	2939 Dec 02 15:13	10° \mathbb{M} 01'27	0°35'31
inferior conj	2938 Dec 18 08:10	26° \mathbb{M} 08'11	1°25'55	minimum elong	2939 Dec 02 14:23	10° \mathbb{M} 04'18	0°35'10
minimum elong	2938 Dec 18 06:20	26° \mathbb{M} 14'31	1°25'12	morning rise	2939 Dec 08 00:01	3° \mathbb{M} 57'06	
min. Earth dist.	2938 Dec 18 02:47	26° \mathbb{M} 26'48	0.67920 AU	direct	2939 Dec 11 22:13	2° \mathbb{M} 29'36	
morning rise	2938 Dec 23 13:09	19° \mathbb{M} 58'41		morning max el	2939 Dec 19 21:39	7° \mathbb{M} 04'31	20°31'22
direct	2938 Dec 28 01:02	18° \mathbb{M} 08'45			2940 Jan 06 02:38	0° \mathbb{M}	
morning max el	2939 Jan 06 01:51	23° \mathbb{M} 26'21	21°48'46	desc. node	2940 Jan 07 14:10	2° \mathbb{M} 12'24	
	2939 Jan 11 19:09	0° \mathbb{M}		morning set	2940 Jan 17 12:00	17° \mathbb{M} 18'26	
desc. node	2939 Jan 20 17:08	12° \mathbb{M} 05'30			2940 Jan 25 13:18	0° \mathbb{M}	
	2939 Feb 01 17:31	0° \mathbb{M}		max. Earth dist.	2940 Jan 26 21:19	2° \mathbb{M} 08'43	1.43322 AU
morning set	2939 Feb 07 11:16	9° \mathbb{M} 01'21					
max. Earth dist.	2939 Feb 13 14:38	19° \mathbb{M} 02'15	1.41512 AU	superior conj	2940 Feb 02 06:36	12° \mathbb{M} 36'46	-2°04'23
	2939 Feb 20 01:14	0° \mathbb{M}		minimum elong	2940 Feb 02 03:57	12° \mathbb{M} 25'47	2°04'19
					2940 Feb 12 10:35	0° \mathbb{M}	
superior conj	2939 Feb 21 07:01	2° \mathbb{M} 10'12	-2°04'08	evening rise	2940 Feb 14 13:44	3° \mathbb{M} 44'18	
minimum elong	2939 Feb 21 09:14	2° \mathbb{M} 19'55	2°04'04	asc. node	2940 Feb 26 20:50	24° \mathbb{M} 26'29	
evening rise	2939 Mar 03 23:51	21° \mathbb{M} 32'55			2940 Mar 02 04:11	0° \mathbb{M}	
	2939 Mar 08 14:38	0° \mathbb{M}		evening max el	2940 Mar 02 20:21	0° \mathbb{M} 41'49	18°07'44
asc. node	2939 Mar 11 23:47	5° \mathbb{M} 55'39		retrograde	2940 Mar 09 08:20	4° \mathbb{M} 05'01	
evening max el	2939 Mar 20 08:19	17° \mathbb{M} 33'11	18°12'19	evening set	2940 Mar 12 03:07	3° \mathbb{M} 26'59	
retrograde	2939 Mar 27 06:21	21° \mathbb{M} 01'52			2940 Mar 16 19:04	30° \mathbb{M}	
evening set	2939 Mar 29 19:37	20° \mathbb{M} 34'13		inferior conj	2940 Mar 18 11:19	28° \mathbb{M} 19'21	3°34'17
inferior conj	2939 Apr 05 17:33	15° \mathbb{M} 47'11	3°06'26	minimum elong	2940 Mar 18 12:40	28° \mathbb{M} 15'51	3°34'12
minimum elong	2939 Apr 05 20:43	15° \mathbb{M} 40'05	3°05'51	min. Earth dist.	2940 Mar 21 09:39	25° \mathbb{M} 19'54	0.62104 AU
min. Earth dist.	2939 Apr 09 02:22	12° \mathbb{M} 47'32	0.59964 AU	morning rise	2940 Mar 24 20:51	22° \mathbb{M} 20'01	
morning rise	2939 Apr 12 19:31	10° \mathbb{M} 03'07		direct	2940 Mar 31 18:02	19° \mathbb{M} 50'19	
desc. node	2939 Apr 18 16:17	8° \mathbb{M} 04'46		desc. node	2940 Apr 04 13:20	20° \mathbb{M} 31'34	
direct	2939 Apr 19 08:06	8° \mathbb{M} 03'34		morning max el	2940 Apr 14 20:23	27° \mathbb{M} 47'00	27°50'46
morning max el	2939 May 03 15:39	15° \mathbb{M} 53'53	27°31'19		2940 Apr 16 23:25	0° \mathbb{M}	
	2939 May 15 03:56	0° \mathbb{M}			2940 May 07 21:17	0° \mathbb{M}	
	2939 Jun 01 14:25	0° \mathbb{M}		morning set	2940 May 18 09:16	19° \mathbb{M} 49'23	
morning set	2939 Jun 04 06:39	5° \mathbb{M} 27'32			2940 May 23 05:58	0° \mathbb{M}	
asc. node	2939 Jun 07 23:03	13° \mathbb{M} 16'48		max. Earth dist.	2940 May 24 01:51	1° \mathbb{M} 46'59	1.32467 AU
max. Earth dist.	2939 Jun 10 16:45	19° \mathbb{M} 15'10	1.32127 AU	asc. node	2940 May 24 20:07	3° \mathbb{M} 25'39	
superior conj	2939 Jun 11 10:48	20° \mathbb{M} 54'25	0°36'04	superior conj	2940 May 25 20:37	5° \mathbb{M} 38'43	0°10'45
minimum elong	2939 Jun 11 09:16	20° \mathbb{M} 45'59	0°35'45	minimum elong	2940 May 25 20:06	5° \mathbb{M} 35'58	0°10'38
	2939 Jun 15 14:12	0° \mathbb{M}		behind sun begin	2940 May 25 16:15	5° \mathbb{M} 14'58	
evening rise	2939 Jun 18 06:56	5° \mathbb{M} 48'05		behind sun end	2940 May 25 23:58	5° \mathbb{M} 57'00	
	2939 Jul 01 00:34	0° Ω		evening rise	2940 Jun 01 18:37	20° \mathbb{M} 39'07	
desc. node	2939 Jul 15 15:33	19° Ω 22'58			2940 Jun 06 07:38	0° \mathbb{M}	

	2940 Jun 26 03:54	0°♎				2941 May 14 17:07	0°♐	
evening max el	2940 Jun 26 16:05	0°♎29'48	24°17'27		evening rise	2941 May 17 06:12	5°♐25'21	
desc. node	2940 Jul 01 12:35	4°♎26'57				2941 May 30 12:07	0°♑	
retrograde	2940 Jul 10 12:17	7°♎28'53			evening max el	2941 Jun 08 06:05	10°♑56'06	22°40'55
evening set	2940 Jul 15 05:59	6°♎38'53			desc. node	2941 Jun 18 09:35	17°♑08'49	
min. Earth dist.	2940 Jul 21 02:51	3°♎43'04	0.56607 AU		retrograde	2941 Jun 21 11:06	17°♑30'19	
inferior conj	2940 Jul 23 17:46	2°♎04'20	-4°55'50		evening set	2941 Jun 24 16:52	17°♑07'14	
minimum elong	2940 Jul 23 14:11	2°♎10'00	4°55'31		min. Earth dist.	2941 Jul 02 14:06	13°♑39'48	0.55309 AU
	2940 Jul 27 05:01	30°♑♑			inferior conj	2941 Jul 03 21:45	12°♑54'32	-4°03'12
morning rise	2940 Aug 01 01:03	28°♑03'03			minimum elong	2941 Jul 03 13:49	13°♑05'54	4°01'21
direct	2940 Aug 03 17:29	27°♑43'50			morning rise	2941 Jul 12 13:02	9°♑03'13	
	2940 Aug 10 14:19	0°♎			direct	2941 Jul 15 11:41	8°♑43'13	
morning max el	2940 Aug 13 08:22	2°♎12'12	19°38'00		morning max el	2941 Jul 26 17:32	13°♑56'25	20°55'35
asc. node	2940 Aug 20 19:20	11°♎38'41				2941 Aug 07 11:43	0°♎	
morning set	2940 Aug 30 21:41	0°♐15'52			asc. node	2941 Aug 07 16:24	0°♎20'43	
	2940 Aug 30 18:31	0°♐			morning set	2941 Aug 15 04:58	14°♎57'55	
						2941 Aug 22 10:35	0°♐	
superior conj	2940 Sep 07 20:15	16°♐13'58	1°43'53		superior conj	2941 Aug 22 15:43	0°♐26'24	1°44'24
minimum elong	2940 Sep 07 21:13	16°♐18'45	1°43'51		minimum elong	2941 Aug 22 15:07	0°♐23'19	1°44'23
max. Earth dist.	2940 Sep 13 20:47	27°♐47'39	1.37537 AU		max. Earth dist.	2941 Aug 27 05:17	9°♐38'15	1.35686 AU
	2940 Sep 15 01:26	0°♑			evening rise	2941 Aug 31 08:08	17°♐33'08	
evening rise	2940 Sep 17 15:06	4°♑38'51				2941 Sep 07 06:54	0°♑	
desc. node	2940 Sep 27 11:56	21°♑16'29			desc. node	2941 Sep 14 08:56	11°♑33'53	
	2940 Oct 03 03:51	0°♒				2941 Sep 27 10:40	0°♒	
evening max el	2940 Oct 23 09:14	25°♒48'42	25°20'18		evening max el	2941 Oct 05 21:26	9°♒28'45	26°24'00
	2940 Oct 28 07:22	0°♑			retrograde	2941 Oct 18 16:39	16°♒41'00	
retrograde	2940 Nov 04 09:53	2°♑44'50			evening set	2941 Oct 25 02:44	14°♒02'48	
evening set	2940 Nov 10 06:29	0°♑17'50			min. Earth dist.	2941 Oct 29 06:02	9°♒43'01	0.66332 AU
	2940 Nov 10 14:38	30°♒♒			inferior conj	2941 Oct 30 20:19	7°♒46'34	-1°17'48
min. Earth dist.	2940 Nov 14 16:58	25°♒22'21	0.67204 AU		minimum elong	2941 Oct 30 22:24	7°♒40'11	1°16'56
inferior conj	2940 Nov 15 19:54	23°♒55'10	-0°19'31		asc. node	2941 Nov 03 15:37	3°♒34'30	
minimum elong	2940 Nov 15 20:23	23°♒53'34	0°19'18		morning rise	2941 Nov 05 18:39	1°♒59'37	
asc. node	2940 Nov 16 18:35	22°♒42'18			direct	2941 Nov 08 18:50	1°♒08'22	
morning rise	2940 Nov 21 10:33	17°♒58'14			morning max el	2941 Nov 15 11:50	4°♒49'51	18°38'34
direct	2940 Nov 24 20:41	16°♒50'42				2941 Dec 03 00:44	0°♑	
morning max el	2940 Dec 02 01:23	20°♒53'32	19°27'14		morning set	2941 Dec 06 05:28	5°♑04'33	
	2940 Dec 09 09:57	0°♑			desc. node	2941 Dec 11 08:15	13°♑10'52	
greatest brilliancy	2940 Dec 15 09:21	8°♑43'12	-0.7m		superior conj	2941 Dec 22 08:04	0°♑28'16	-1°09'52
desc. node	2940 Dec 24 11:12	22°♑35'44			minimum elong	2941 Dec 21 23:47	29°♑55'45	1°08'54
morning set	2940 Dec 26 10:15	25°♑37'33			max. Earth dist.	2941 Dec 22 04:22	0°♑13'43	1.45174 AU
	2940 Dec 29 05:56	0°♑				2941 Dec 22 00:52	0°♑	
max. Earth dist.	2941 Jan 08 10:45	15°♑58'20	1.44589 AU		evening rise	2942 Jan 07 01:42	25°♑20'32	
						2942 Jan 09 23:38	0°♒	
superior conj	2941 Jan 12 04:11	21°♑53'47	-1°46'25		greatest brilliancy	2942 Jan 15 05:50	8°♒23'06	-0.8m
minimum elong	2941 Jan 11 20:11	21°♑21'52	1°45'47		evening max el	2942 Jan 28 19:27	27°♒29'35	18°54'20
	2941 Jan 17 04:52	0°♒			asc. node	2942 Jan 30 14:55	29°♒09'45	
evening rise	2941 Jan 26 07:18	15°♒01'06				2942 Jan 31 18:14	0°♑	
	2941 Feb 04 07:39	0°♑			retrograde	2942 Feb 04 14:34	1°♑19'07	
asc. node	2941 Feb 12 17:54	12°♑15'08			evening set	2942 Feb 07 21:02	0°♑17'30	
evening max el	2941 Feb 14 08:52	14°♑02'15	18°22'03			2942 Feb 08 07:36	30°♒♒	
retrograde	2941 Feb 20 20:22	17°♑33'04			inferior conj	2942 Feb 13 12:26	24°♒33'59	3°29'13
evening set	2941 Feb 23 20:38	16°♑43'43			minimum elong	2942 Feb 13 10:44	24°♒39'17	3°29'00
inferior conj	2941 Mar 01 18:51	11°♑17'13	3°39'59		min. Earth dist.	2942 Feb 15 04:33	22°♒29'05	0.65595 AU
minimum elong	2941 Mar 01 18:26	11°♑18'24	3°39'59		morning rise	2942 Feb 19 00:02	18°♒22'13	
min. Earth dist.	2941 Mar 04 02:28	8°♑38'21	0.64026 AU		direct	2942 Feb 25 13:34	15°♒30'59	
morning rise	2941 Mar 07 15:29	5°♑09'28			desc. node	2942 Mar 09 07:26	21°♒55'52	
direct	2941 Mar 14 12:17	2°♑21'54			morning max el	2942 Mar 10 15:01	23°♒13'04	26°44'16
desc. node	2941 Mar 22 10:23	5°♑20'08				2942 Mar 16 15:46	0°♑	
morning max el	2941 Mar 28 05:09	10°♑17'16	27°33'22			2942 Apr 06 00:26	0°♑	
	2941 Apr 12 16:54	0°♑			morning set	2942 Apr 15 12:47	17°♑05'47	
morning set	2941 Apr 30 06:12	0°♑			max. Earth dist.	2942 Apr 19 19:27	25°♑26'22	1.34444 AU
max. Earth dist.	2941 May 02 04:25	3°♑45'30				2942 Apr 22 01:40	0°♑	
	2941 May 07 03:58	13°♑53'29	1.33227 AU		superior conj	2942 Apr 24 03:11	4°♑14'46	-0°45'12
					minimum elong	2942 Apr 24 05:32	4°♑26'54	0°44'44
superior conj	2941 May 10 02:48	20°♑07'39	-0°16'44					
minimum elong	2941 May 10 03:38	20°♑12'07	0°16'33					
asc. node	2941 May 11 17:10	23°♑33'10						

asc. node	2942 Apr 28 14:13	13°♄35'15		superior conj	2943 Apr 07 19:09	17°♄52'44	-1°13'10
evening rise	2942 May 01 15:47	20°♄00'38		minimum elong	2943 Apr 07 22:53	18°♄11'23	1°12'33
	2942 May 06 14:50	0°♄			2943 Apr 13 18:30	0°♄	
evening max el	2942 May 21 03:28	21°♄38'38	21°10'21	asc. node	2943 Apr 15 11:14	3°♄27'48	
retrograde	2942 Jun 02 00:40	27°♄27'23		evening rise	2943 Apr 15 21:17	4°♄18'51	
evening set	2942 Jun 04 06:38	27°♄15'39			2943 Apr 30 19:33	0°♄	
desc. node	2942 Jun 05 06:37	27°♄03'15		evening max el	2943 May 03 12:30	2°♄57'49	19°55'09
inferior conj	2942 Jun 13 15:41	23°♄17'15	-2°24'34	retrograde	2943 May 13 16:09	7°♄53'11	
minimum elong	2942 Jun 13 09:05	23°♄26'32	2°22'19	evening set	2943 May 15 15:54	7°♄42'41	
min. Earth dist.	2942 Jun 14 01:59	23°♄02'45	0.54867 AU	desc. node	2943 May 23 03:39	4°♄33'31	
morning rise	2942 Jun 22 11:45	19°♄17'47		inferior conj	2943 May 24 13:45	3°♄42'15	-0°25'02
direct	2942 Jun 25 21:24	18°♄52'43		minimum elong	2943 May 24 12:36	3°♄44'00	0°24'37
morning max el	2942 Jul 08 15:44	24°♄57'16	22°30'13	min. Earth dist.	2943 May 26 15:12	2°♄27'13	0.55394 AU
	2942 Jul 13 07:24	0°♄			2943 May 31 07:23	30°♄	
asc. node	2942 Jul 25 13:26	19°♄33'43		morning rise	2943 Jun 02 07:16	29°♄16'35	
morning set	2942 Jul 30 15:20	29°♄49'08		direct	2943 Jun 06 11:48	28°♄38'04	
	2942 Jul 30 17:25	0°♄			2943 Jun 12 12:49	0°♄	
				morning max el	2943 Jun 20 07:02	5°♄28'17	24°12'47
superior conj	2942 Aug 06 18:47	15°♄01'11	1°38'09		2943 Jul 07 17:06	0°♄	
minimum elong	2942 Aug 06 17:05	14°♄52'11	1°38'02	asc. node	2943 Jul 12 10:29	9°♄09'38	
max. Earth dist.	2942 Aug 09 22:22	21°♄37'24	1.34190 AU	morning set	2943 Jul 15 03:05	14°♄44'31	
	2942 Aug 14 01:48	0°♄					
evening rise	2942 Aug 14 16:14	1°♄10'50		superior conj	2943 Jul 22 02:51	29°♄50'12	1°26'19
	2942 Aug 31 06:16	0°♄		minimum elong	2943 Jul 22 00:34	29°♄37'53	1°26'03
desc. node	2942 Sep 01 05:56	1°♄29'26			2943 Jul 22 04:39	0°♄	
evening max el	2942 Sep 18 09:50	23°♄00'12	27°08'19	max. Earth dist.	2943 Jul 24 00:36	3°♄57'06	1.33101 AU
	2942 Sep 29 07:21	0°♄		evening rise	2943 Jul 29 11:22	15°♄20'38	
retrograde	2942 Oct 01 17:43	0°♄18'02			2943 Aug 06 03:05	0°♄	
	2942 Oct 04 01:50	30°♄		desc. node	2943 Aug 19 02:56	20°♄53'54	
evening set	2942 Oct 08 15:06	27°♄35'29			2943 Aug 26 02:29	0°♄	
min. Earth dist.	2942 Oct 12 11:55	23°♄51'31	0.65113 AU	evening max el	2943 Aug 31 20:58	6°♄11'10	27°26'12
inferior conj	2942 Oct 14 14:17	21°♄30'27	-2°17'38	retrograde	2943 Sep 14 12:29	13°♄27'56	
minimum elong	2942 Oct 14 18:03	21°♄19'52	2°16'12	evening set	2943 Sep 21 16:42	10°♄50'34	
morning rise	2942 Oct 20 21:54	15°♄56'32		min. Earth dist.	2943 Sep 25 08:29	7°♄39'45	0.63554 AU
asc. node	2942 Oct 21 12:39	15°♄40'56		inferior conj	2943 Sep 27 23:14	5°♄01'11	-3°16'16
direct	2942 Oct 23 14:33	15°♄17'42		minimum elong	2943 Sep 28 04:24	4°♄48'06	3°14'35
morning max el	2942 Oct 30 02:36	18°♄47'00	18°06'28		2943 Oct 04 02:42	30°♄	
	2942 Nov 07 11:06	0°♄		morning rise	2943 Oct 04 17:23	29°♄43'47	
morning set	2942 Nov 17 06:01	15°♄59'10		direct	2943 Oct 07 05:05	29°♄13'45	
	2942 Nov 25 19:21	0°♄		asc. node	2943 Oct 08 09:42	29°♄20'47	
desc. node	2942 Nov 28 05:16	3°♄53'12			2943 Oct 10 06:40	0°♄	
				morning max el	2943 Oct 13 18:58	2°♄39'11	17°51'46
superior conj	2942 Dec 01 13:28	9°♄13'21	-0°22'32	morning set	2943 Oct 30 08:33	28°♄08'58	
minimum elong	2942 Dec 01 10:37	9°♄02'03	0°22'09		2943 Oct 31 10:09	0°♄	
max. Earth dist.	2942 Dec 04 23:25	14°♄37'27	1.45017 AU				
	2942 Dec 14 19:40	0°♄		superior conj	2943 Nov 11 15:08	18°♄59'59	0°23'36
evening rise	2942 Dec 17 22:32	4°♄50'08		minimum elong	2943 Nov 11 17:35	19°♄10'05	0°23'16
greatest brilliancy	2942 Dec 31 02:16	24°♄59'46	-0.7m	desc. node	2943 Nov 15 02:15	24°♄39'26	
	2943 Jan 03 11:53	0°♄		max. Earth dist.	2943 Nov 17 17:13	28°♄52'44	1.44145 AU
evening max el	2943 Jan 12 02:04	11°♄00'03	19°43'09		2943 Nov 18 10:04	0°♄	
asc. node	2943 Jan 17 11:56	14°♄56'02		evening rise	2943 Nov 27 07:47	13°♄56'33	
retrograde	2943 Jan 19 11:48	15°♄17'43			2943 Dec 07 22:14	0°♄	
evening set	2943 Jan 23 01:49	14°♄02'33		evening max el	2943 Dec 26 03:22	24°♄31'13	20°46'04
inferior conj	2943 Jan 28 12:56	8°♄04'19	3°06'02	retrograde	2944 Jan 03 09:45	29°♄24'21	
minimum elong	2943 Jan 28 10:32	8°♄12'15	3°05'30	asc. node	2944 Jan 04 08:58	29°♄19'10	
min. Earth dist.	2943 Jan 29 14:30	6°♄39'46	0.66751 AU	evening set	2944 Jan 07 08:55	27°♄54'21	
morning rise	2943 Feb 02 19:01	1°♄51'02		inferior conj	2944 Jan 12 17:48	21°♄44'01	2°33'08
	2943 Feb 05 09:39	30°♄		minimum elong	2944 Jan 12 15:15	21°♄52'46	2°32'22
direct	2943 Feb 08 20:37	29°♄08'43		min. Earth dist.	2944 Jan 13 06:18	21°♄01'12	0.67498 AU
	2943 Feb 12 14:25	0°♄		morning rise	2944 Jan 17 21:25	15°♄30'58	
morning max el	2943 Feb 21 00:03	6°♄22'53	25°32'03	direct	2944 Jan 23 08:38	13°♄06'10	
desc. node	2943 Feb 24 04:29	9°♄48'37		morning max el	2944 Feb 03 08:28	19°♄39'28	24°06'36
	2943 Mar 11 07:31	0°♄		desc. node	2944 Feb 11 01:31	28°♄35'41	
morning set	2943 Mar 29 05:56	29°♄37'32			2944 Feb 12 03:39	0°♄	
	2943 Mar 29 10:52	0°♄			2944 Mar 03 11:36	0°♄	
max. Earth dist.	2943 Apr 01 23:30	6°♄33'04	1.36116 AU	morning set	2944 Mar 10 02:03	11°♄04'01	
				max. Earth dist.	2944 Mar 13 19:56	17°♄39'22	1.38145 AU

superior conj	2944 Mar 20 23:06	0° Υ 51'13	-1°38'22	superior conj	2945 Mar 03 10:40	12° X 59'36	-1°57'31
minimum elong	2944 Mar 21 03:36	1° Υ 12'41	1°37'50	minimum elong	2945 Mar 03 14:25	13° X 16'36	1°57'18
	2944 Mar 20 12:20	0° Υ			2945 Mar 12 13:48	0° Υ	
evening rise	2944 Mar 29 20:09	18° Υ 11'59		evening rise	2945 Mar 13 09:19	1° Υ 32'23	
asc. node	2944 Apr 01 08:16	23° Υ 05'26		asc. node	2945 Mar 19 05:19	12° Υ 22'47	
	2944 Apr 05 00:32	0° B		evening max el	2945 Mar 29 13:49	27° Υ 28'54	18°23'42
evening max el	2944 Apr 15 08:48	14° B 56'14	18°59'17		2945 Apr 01 20:29	0° B	
retrograde	2944 Apr 23 22:03	19° B 06'01		retrograde	2945 Apr 05 22:59	1° B 08'08	
evening set	2944 Apr 26 01:25	18° B 51'26		evening set	2945 Apr 08 08:31	0° B 46'03	
inferior conj	2944 May 04 04:16	14° B 36'07	1°21'49		2945 Apr 10 05:51	30° R Υ	
minimum elong	2944 May 04 07:15	14° B 30'52	1°20'48	inferior conj	2945 Apr 15 16:10	26° Υ 11'01	2°37'37
min. Earth dist.	2944 May 07 06:46	12° B 26'13	0.56775 AU	minimum elong	2945 Apr 15 19:57	26° Υ 03'13	2°36'41
desc. node	2944 May 09 00:42	11° B 19'00		min. Earth dist.	2945 Apr 19 02:47	23° Υ 22'27	0.58722 AU
morning rise	2944 May 12 09:58	9° B 35'21		morning rise	2945 Apr 23 04:29	20° Υ 39'29	
direct	2944 May 17 14:33	8° B 31'31		desc. node	2945 Apr 25 21:44	19° Υ 31'20	
morning max el	2944 May 31 21:39	15° B 54'50	25°49'04	direct	2945 Apr 29 07:24	19° Υ 00'37	
	2944 Jun 12 07:10	0° II		morning max el	2945 May 13 16:45	26° Υ 44'39	27°03'15
asc. node	2944 Jun 28 07:32	29° II 01'10			2945 May 16 19:03	0° B	
morning set	2944 Jun 28 14:32	29° II 38'04			2945 Jun 05 17:40	0° II	
	2944 Jun 28 18:41	0° B		morning set	2945 Jun 13 00:03	14° II 24'20	
				asc. node	2945 Jun 15 04:35	19° II 03'03	
superior conj	2944 Jul 05 13:42	14° B 45'44	1°09'50	superior conj	2945 Jun 20 01:32	29° II 41'43	0°49'23
minimum elong	2944 Jul 05 11:21	14° B 32'51	1°09'27	minimum elong	2945 Jun 19 23:35	29° II 30'58	0°49'00
max. Earth dist.	2944 Jul 06 09:23	16° B 33'41	1.32411 AU	max. Earth dist.	2945 Jun 19 21:10	29° II 17'41	1.32116 AU
evening rise	2944 Jul 12 14:14	29° B 51'55			2945 Jun 20 04:51	0° B	
	2944 Jul 12 15:47	0° B		evening rise	2945 Jun 26 22:11	14° B 36'28	
	2944 Jul 29 05:32	0° B			2945 Jul 04 16:01	0° B	
desc. node	2944 Aug 04 23:57	9° B 34'18		desc. node	2945 Jul 22 21:00	27° B 12'11	
evening max el	2944 Aug 13 04:11	18° B 47'36	27°12'35		2945 Jul 25 12:56	0° B	
retrograde	2944 Aug 27 00:21	26° B 01'35		evening max el	2945 Jul 26 05:02	0° B 38'55	26°25'47
evening set	2944 Sep 03 03:43	23° B 41'39		retrograde	2945 Aug 09 04:26	7° B 50'13	
min. Earth dist.	2944 Sep 06 18:26	20° B 55'57	0.61686 AU	evening set	2945 Aug 15 19:25	6° B 00'45	
inferior conj	2944 Sep 09 20:07	18° B 11'09	-4°09'15	min. Earth dist.	2945 Aug 19 18:16	3° B 25'15	0.59630 AU
minimum elong	2944 Sep 10 01:43	17° B 58'34	4°07'54	inferior conj	2945 Aug 23 01:22	0° B 50'53	-4°49'09
morning rise	2944 Sep 17 01:24	13° B 13'51		minimum elong	2945 Aug 23 05:26	0° B 42'54	4°48'38
direct	2944 Sep 19 10:53	12° B 49'37			2945 Aug 24 03:35	30° R B	
asc. node	2944 Sep 24 06:45	14° B 31'44		morning rise	2945 Aug 30 17:33	26° B 16'08	
morning max el	2944 Sep 26 09:57	16° B 19'28	17°55'27	direct	2945 Sep 02 03:37	25° B 55'17	
	2944 Oct 06 00:04	0° B		morning max el	2945 Sep 09 20:20	29° B 39'07	18°18'41
morning set	2944 Oct 12 06:45	11° B 15'00			2945 Sep 10 04:51	0° B	
superior conj	2944 Oct 22 19:55	0° B 06'49	1°00'26	asc. node	2945 Sep 11 03:48	1° B 00'31	
minimum elong	2944 Oct 23 00:17	0° B 25'41	0°59'53	morning set	2945 Sep 25 18:57	25° B 00'58	
	2944 Oct 22 18:21	0° B			2945 Sep 28 09:45	0° B	
max. Earth dist.	2944 Oct 30 06:43	12° B 41'00	1.42666 AU	superior conj	2945 Oct 05 01:02	12° B 24'56	1°25'38
desc. node	2944 Oct 31 23:16	15° B 26'37		minimum elong	2945 Oct 05 04:43	12° B 41'48	1°25'16
evening rise	2944 Nov 05 21:46	23° B 20'25		max. Earth dist.	2945 Oct 12 14:28	25° B 47'38	1.40771 AU
	2944 Nov 10 04:33	0° B			2945 Oct 15 02:08	0° B	
	2944 Dec 01 02:01	0° B		evening rise	2945 Oct 17 06:22	3° B 36'24	
evening max el	2944 Dec 07 23:04	8° B 03'19	21°59'35	desc. node	2945 Oct 18 20:17	6° B 11'01	
retrograde	2944 Dec 17 06:33	13° B 35'56			2945 Nov 03 11:44	0° B	
asc. node	2944 Dec 21 06:00	12° B 10'26		evening max el	2945 Nov 20 14:15	21° B 37'41	23°18'58
evening set	2944 Dec 21 16:38	11° B 50'00		retrograde	2945 Dec 01 00:42	27° B 48'30	
inferior conj	2944 Dec 27 00:59	5° B 30'58	1°52'23	evening set	2945 Dec 05 23:17	25° B 46'08	
minimum elong	2944 Dec 26 22:46	5° B 38'40	1°51'36	asc. node	2945 Dec 08 03:03	23° B 35'19	
min. Earth dist.	2944 Dec 27 01:48	5° B 28'07	0.67863 AU	inferior conj	2945 Dec 11 08:36	19° B 22'16	1°05'09
	2944 Dec 31 11:14	30° R B		minimum elong	2945 Dec 11 07:08	19° B 27'17	1°04'35
morning rise	2945 Jan 01 04:46	29° B 19'38		min. Earth dist.	2945 Dec 10 22:36	19° B 56'36	0.67874 AU
direct	2945 Jan 06 00:56	27° B 16'45		morning rise	2945 Dec 16 14:56	13° B 14'34	
	2945 Jan 12 09:32	0° B		direct	2945 Dec 20 20:43	11° B 34'30	
morning max el	2945 Jan 15 18:45	3° B 02'16	22°37'55	morning max el	2945 Dec 29 10:15	16° B 33'25	21°14'26
desc. node	2945 Jan 27 22:32	18° B 01'49			2946 Jan 09 06:15	0° B	
	2945 Feb 05 06:08	0° B		desc. node	2946 Jan 14 19:33	7° B 55'40	
morning set	2945 Feb 18 19:14	21° B 11'08		morning set	2946 Jan 29 07:49	29° B 57'55	
max. Earth dist.	2945 Feb 23 15:54	29° B 18'51	1.40309 AU		2946 Jan 29 08:21	0° B	
	2945 Feb 24 01:33	0° B		max. Earth dist.	2946 Feb 05 17:18	11° B 50'21	1.42328 AU

superior conj	2946 Feb 13 00:39	24° \approx 05'25	-2°06'13	max. Earth dist.	2947 Jan 19 02:36	25° \approx 14'55	1.43939 AU
minimum elong	2946 Feb 13 01:07	24° \approx 07'25	2°06'13		2947 Jan 22 01:35	0° \approx	
	2946 Feb 16 10:25	0° \approx					
evening rise	2946 Feb 24 08:51	14° \approx 10'37		superior conj	2947 Jan 24 12:55	4° \approx 00'59	-1°59'11
	2946 Mar 05 08:27	0° \approx		minimum elong	2947 Jan 24 07:47	3° \approx 39'58	1°58'54
asc. node	2946 Mar 06 02:22	1° \approx 12'44		evening rise	2947 Feb 06 14:29	25° \approx 58'27	
evening max el	2946 Mar 13 00:13	10° \approx 26'47	18°08'05		2947 Feb 08 22:35	0° \approx	
retrograde	2946 Mar 19 16:50	13° \approx 51'27		asc. node	2947 Feb 20 23:25	19° \approx 26'32	
evening set	2946 Mar 22 08:25	13° \approx 19'38		evening max el	2947 Feb 24 12:50	23° \approx 41'03	18°11'40
inferior conj	2946 Mar 29 00:03	8° \approx 24'02	3°21'21	retrograde	2947 Mar 02 23:25	27° \approx 05'39	
minimum elong	2946 Mar 29 02:31	8° \approx 18'11	3°21'01	evening set	2947 Mar 05 20:35	26° \approx 22'50	
min. Earth dist.	2946 Apr 01 05:26	5° \approx 21'12	0.60883 AU	inferior conj	2947 Mar 12 00:06	21° \approx 07'13	3°39'02
morning rise	2946 Apr 04 18:38	2° \approx 32'16		minimum elong	2947 Mar 12 00:40	21° \approx 05'40	3°39'01
direct	2946 Apr 11 12:07	0° \approx 18'20		min. Earth dist.	2947 Mar 14 16:33	18° \approx 14'20	0.62958 AU
desc. node	2946 Apr 12 18:46	0° \approx 22'56		morning rise	2947 Mar 18 03:41	15° \approx 03'53	
morning max el	2946 Apr 25 18:03	8° \approx 13'08	27°44'11	direct	2947 Mar 25 01:56	12° \approx 24'38	
	2946 May 12 09:13	0° \approx		desc. node	2947 Mar 30 15:48	13° \approx 53'31	
morning set	2946 May 28 05:50	28° \approx 57'25		morning max el	2947 Apr 08 00:31	20° \approx 21'41	27°47'42
	2946 May 28 17:56	0° \approx			2947 Apr 16 07:26	0° \approx	
asc. node	2946 Jun 02 01:39	9° \approx 10'51			2947 May 05 09:16	0° \approx	
max. Earth dist.	2946 Jun 03 08:16	11° \approx 57'26	1.32216 AU	morning set	2947 May 12 05:35	13° \approx 09'01	
				max. Earth dist.	2947 May 17 14:43	24° \approx 19'03	1.32732 AU
superior conj	2946 Jun 04 12:37	14° \approx 32'31	0°25'40				
minimum elong	2946 Jun 04 11:29	14° \approx 26'16	0°25'24	superior conj	2947 May 19 21:07	29° \approx 11'04	-0°00'42
evening rise	2946 Jun 11 09:06	29° \approx 27'28		minimum elong	2947 May 19 21:09	29° \approx 11'15	0°00'41
	2946 Jun 11 15:14	0° \approx		behind sun begin	2947 May 19 15:55	28° \approx 43'01	
	2946 Jun 28 05:46	0° \approx		behind sun end	2947 May 20 02:22	29° \approx 39'32	
evening max el	2946 Jul 07 22:52	11° \approx 44'34	25°10'04	asc. node	2947 May 19 22:41	29° \approx 19'33	
desc. node	2946 Jul 09 18:02	13° \approx 22'21			2947 May 20 06:10	0° \approx	
retrograde	2946 Jul 21 22:32	18° \approx 50'22		evening rise	2947 May 26 20:57	14° \approx 17'13	
evening set	2946 Jul 27 11:43	17° \approx 39'30			2947 Jun 03 18:20	0° \approx	
min. Earth dist.	2946 Aug 01 10:37	14° \approx 55'39	0.57619 AU	evening max el	2947 Jun 19 12:26	22° \approx 17'14	23°36'39
inferior conj	2946 Aug 04 11:46	12° \approx 51'39	-5°04'16	desc. node	2947 Jun 26 15:05	27° \approx 30'37	
minimum elong	2946 Aug 04 11:32	12° \approx 52'03	5°04'17	retrograde	2947 Jul 03 03:57	29° \approx 07'30	
morning rise	2946 Aug 12 13:50	8° \approx 39'03		evening set	2947 Jul 07 05:53	28° \approx 31'00	
direct	2946 Aug 15 03:12	8° \approx 19'42		min. Earth dist.	2947 Jul 13 22:37	25° \approx 23'18	0.55972 AU
morning max el	2946 Aug 23 22:50	12° \approx 28'39	19°02'46	inferior conj	2947 Jul 16 01:58	24° \approx 06'27	-4°39'44
asc. node	2946 Aug 29 00:51	18° \approx 32'02		minimum elong	2947 Jul 15 20:04	24° \approx 15'20	4°38'51
	2946 Sep 04 21:48	0° \approx		morning rise	2947 Jul 24 12:47	20° \approx 10'48	
morning set	2946 Sep 09 16:58	9° \approx 15'41		direct	2947 Jul 27 07:43	19° \approx 51'24	
				morning max el	2947 Aug 06 14:35	24° \approx 37'39	20°08'25
superior conj	2946 Sep 18 00:57	25° \approx 38'55	1°39'56		2947 Aug 11 08:24	0° \approx	
minimum elong	2946 Sep 18 02:57	25° \approx 48'34	1°39'49	asc. node	2947 Aug 15 21:54	6° \approx 51'28	
	2946 Sep 20 07:47	0° \approx		morning set	2947 Aug 24 21:34	23° \approx 04'33	
max. Earth dist.	2946 Sep 24 18:42	8° \approx 12'39	1.38710 AU		2947 Aug 27 21:57	0° \approx	
evening rise	2946 Sep 28 14:48	14° \approx 58'56					
desc. node	2946 Oct 05 17:20	26° \approx 49'07		superior conj	2947 Sep 01 14:27	9° \approx 33'03	1°45'00
	2946 Oct 07 17:23	0° \approx		minimum elong	2947 Sep 01 14:42	9° \approx 34'20	1°45'00
	2946 Oct 29 06:16	0° \approx		max. Earth dist.	2947 Sep 07 00:20	20° \approx 09'53	1.36724 AU
evening max el	2946 Nov 03 03:04	5° \approx 16'39	24°37'54	evening rise	2947 Sep 10 21:07	27° \approx 22'22	
retrograde	2946 Nov 14 14:56	11° \approx 58'46			2947 Sep 12 08:02	0° \approx	
evening set	2946 Nov 20 03:17	9° \approx 40'26		desc. node	2947 Sep 22 14:23	17° \approx 15'37	
min. Earth dist.	2946 Nov 24 18:18	4° \approx 24'36	0.67550 AU		2947 Oct 01 02:53	0° \approx	
asc. node	2946 Nov 25 00:05	4° \approx 05'22		evening max el	2947 Oct 16 15:21	18° \approx 58'07	25°49'18
inferior conj	2946 Nov 25 14:52	3° \approx 16'06	0°12'40	retrograde	2947 Oct 29 00:26	26° \approx 01'37	
minimum elong	2946 Nov 25 14:33	3° \approx 17'09	0°12'32	evening set	2947 Nov 04 02:55	23° \approx 29'30	
transit middle	2946 Nov 25 14:33	3° \approx 17'09	0°12'32	min. Earth dist.	2947 Nov 08 10:24	18° \approx 49'00	0.66882 AU
transit begin	2946 Nov 25 12:49	3° \approx 22'57		inferior conj	2947 Nov 09 17:59	17° \approx 09'13	-0°43'54
transit end	2946 Nov 25 16:18	3° \approx 11'20		minimum elong	2947 Nov 09 19:07	17° \approx 05'34	0°43'25
	2946 Nov 28 04:32	30° \approx 11'17		asc. node	2947 Nov 11 21:07	14° \approx 33'04	
morning rise	2946 Dec 01 01:54	27° \approx 14'17		morning rise	2947 Nov 15 11:40	11° \approx 16'03	
direct	2946 Dec 04 18:44	25° \approx 55'34		direct	2947 Nov 18 17:25	10° \approx 15'43	
	2946 Dec 12 03:00	0° \approx		morning max el	2947 Nov 25 16:04	14° \approx 07'54	19°04'29
morning max el	2946 Dec 12 09:20	0° \approx 15'42	20°02'09		2947 Dec 02 12:32	0° \approx	
desc. node	2947 Jan 01 16:35	28° \approx 09'51		morning set	2947 Dec 18 09:07	16° \approx 47'29	
	2947 Jan 02 21:34	0° \approx		desc. node	2947 Dec 19 13:38	18° \approx 38'44	
morning set	2947 Jan 08 04:02	8° \approx 05'01			2947 Dec 26 20:03	0° \approx	

max. Earth dist.	2948 Jan 01 18:35	9°  19'12	1.44932 AU	desc. node	2948 Dec 05 10:39	9°  17'18	
superior conj	2948 Jan 04 01:12	12°  54'38	-1°32'54	superior conj	2948 Dec 13 02:56	21°  25'32	-0°50'22
minimum elong	2948 Jan 03 16:12	12°  19'03	1°32'02	minimum elong	2948 Dec 12 20:33	21°  00'29	0°49'33
	2948 Jan 14 17:31	0° 		max. Earth dist.	2948 Dec 14 13:43	23°  42'08	1.45198 AU
evening rise	2948 Jan 18 22:20	6°  50'42			2948 Dec 18 14:06	0° 	
	2948 Feb 02 10:06	0° 		evening rise	2948 Dec 29 06:58	16°  347'13	
asc. node	2948 Feb 07 20:26	6°  53'48			2949 Jan 06 17:01	0° 	
evening max el	2948 Feb 08 00:50	7°  05'06	18°33'42	greatest brilliancy	2949 Jan 08 18:56	3°  13'39	-0.8m
retrograde	2948 Feb 14 14:28	10°  42'22		evening max el	2949 Jan 21 09:52	20°  33'33	19°13'09
evening set	2948 Feb 17 17:22	9°  47'43		asc. node	2949 Jan 24 17:27	23°  20'59	
inferior conj	2948 Feb 23 12:18	4°  13'36	3°37'09	retrograde	2949 Jan 28 10:24	24°  34'13	
minimum elong	2948 Feb 23 11:16	4°  16'39	3°37'05	evening set	2949 Jan 31 19:54	23°  26'53	
min. Earth dist.	2948 Feb 25 13:12	1°  48'18	0.64741 AU	inferior conj	2949 Feb 06 09:10	17°  36'30	3°20'42
	2948 Feb 27 04:06	30° 		minimum elong	2949 Feb 06 07:06	17°  43'08	3°20'21
morning rise	2948 Feb 29 04:40	28° 	04'00	min. Earth dist.	2949 Feb 07 18:49	15°  48'37	0.66135 AU
direct	2948 Mar 06 23:06	25° 	13'25	morning rise	2949 Feb 11 18:01	11° 	23'46
desc. node	2948 Mar 16 12:49	29° 	31'45	direct	2949 Feb 18 02:44	8° 	35'21
	2948 Mar 17 02:32	0° 		morning max el	2949 Mar 02 19:50	16°  07'25	26°15'53
morning max el	2948 Mar 20 09:58	3°  03'52	27°16'02	desc. node	2949 Mar 03 09:51	16°  43'12	
	2948 Apr 09 15:37	0° 			2949 Mar 14 07:33	0° 	
morning set	2948 Apr 24 20:34	26°  09'53			2949 Apr 02 12:17	0° 	
	2948 Apr 26 11:03	0° 		morning set	2949 Apr 07 23:02	9°  09'51'39	
max. Earth dist.	2948 Apr 29 12:49	6°  12'22	1.33689 AU	max. Earth dist.	2949 Apr 11 23:34	17°  09'32'54	1.35105 AU
superior conj	2948 May 03 01:06	13°  31'24	-0°28'45	superior conj	2949 Apr 16 22:12	27°  09'26'15	-0°57'15
minimum elong	2948 May 03 02:34	13°  39'08	0°28'26	minimum elong	2949 Apr 17 01:10	27°  04'12'26	0°56'42
asc. node	2948 May 05 19:44	19°  25'15			2949 Apr 18 04:11	0° 	
evening rise	2948 May 10 07:54	28°  39'39		asc. node	2949 Apr 22 16:46	9°  23'24	
	2948 May 10 19:26	0° 		evening rise	2949 Apr 24 16:00	13°  27'58	
	2948 May 28 14:09	0° 			2949 May 03 06:07	0° 	
evening max el	2948 May 31 04:41	2°  46'25	22°00'57	evening max el	2949 May 13 06:33	13°  24'41'41	20°36'05
retrograde	2948 Jun 12 21:37	9°  03'09		retrograde	2949 May 24 10:44	19°  22'08'23	
desc. node	2948 Jun 12 12:04	9°  02'47		evening set	2949 May 26 12:05	18°  25'58'03	
evening set	2948 Jun 15 15:26	8°  46'23		desc. node	2949 May 30 09:04	17°  24'48'14	
min. Earth dist.	2948 Jun 24 09:31	5°  01'49	0.55012 AU	inferior conj	2949 Jun 04 17:51	15°  22'00'22	-1°34'16
inferior conj	2948 Jun 25 00:06	4°  41'23	-3°26'03	minimum elong	2949 Jun 04 13:24	15°  22'06'47	1°32'39
minimum elong	2948 Jun 24 15:57	4°  52'49	3°23'43	min. Earth dist.	2949 Jun 05 21:45	14°  22'20'10	0.54969 AU
morning rise	2948 Jul 03 18:05	0° 		morning rise	2949 Jun 13 13:58	10°  22'51'44	
direct	2948 Jul 06 20:52	0° 		direct	2949 Jun 17 06:22	10°  22'22'30	
morning max el	2948 Jul 18 18:42	6°  02'02	21°34'06	morning max el	2949 Jun 30 13:23	16°  24'47'41	23°13'47
asc. node	2948 Aug 01 18:56	25°  47'36			2949 Jul 11 02:34	0° 	
	2948 Aug 04 00:09	0° 		asc. node	2949 Jul 19 16:00	15°  21'11'10	
morning set	2948 Aug 08 06:23	8°  36'12		morning set	2949 Jul 23 17:34	23°  23'00'00	
					2949 Jul 26 18:46	0° 	
superior conj	2948 Aug 15 13:31	23°  35'54	1°42'29	superior conj	2949 Jul 30 19:01	8°  27'37'59	1°33'46
minimum elong	2948 Aug 15 12:23	23°  35'00'02	1°42'27	minimum elong	2949 Jul 30 17:01	8°  27'27'15	1°33'35
	2948 Aug 18 12:10	0° 		max. Earth dist.	2949 Aug 02 09:31	14°  28'10'05	1.33670 AU
max. Earth dist.	2948 Aug 19 12:28	2°  02'57	1.35009 AU	evening rise	2949 Aug 07 10:17	24°  28'28'44	
evening rise	2948 Aug 23 21:04	10°  09'36'08			2949 Aug 10 06:16	0° 	
	2948 Sep 03 19:22	0° 		desc. node	2949 Aug 26 08:23	27°  09'08'41	
desc. node	2948 Sep 08 11:24	7°  24'39			2949 Aug 28 07:59	0° 	
	2948 Sep 25 14:26	0° 		evening max el	2949 Sep 10 15:36	15°  25'59'29	27°19'25
evening max el	2948 Sep 28 03:43	2°  35'35'30	26°45'33	retrograde	2949 Sep 24 03:15	23°  25'18'05	
retrograde	2948 Oct 11 04:38	9°  35'50'33		evening set	2949 Oct 01 04:22	20°  25'35'58	
evening set	2948 Oct 17 20:06	7°  35'09'22		min. Earth dist.	2949 Oct 04 22:36	17°  25'06'59	0.64492 AU
min. Earth dist.	2948 Oct 21 20:32	3°  35'05'12	0.65864 AU	inferior conj	2949 Oct 07 06:25	14°  25'37'03	-2°42'53
inferior conj	2948 Oct 23 15:55	0°  35'57'36	-1°43'08	minimum elong	2949 Oct 07 10:51	14°  25'25'07	2°41'16
minimum elong	2948 Oct 23 18:43	0° 	1°42'00	morning rise	2949 Oct 13 18:26	9°  25'10'03	
	2948 Oct 24 11:37	30° 		asc. node	2949 Oct 15 15:11	8°  25'38'14	
asc. node	2948 Oct 28 18:09	25°  25'52'28		direct	2949 Oct 16 08:35	8°  25'35'30	
morning rise	2948 Oct 29 18:02	25°  25'16'01		morning max el	2949 Oct 22 20:39	12°  25'02'08	17°58'03
direct	2948 Nov 01 14:48	24°  25'30'28			2949 Nov 04 06:10	0° 	
morning max el	2948 Nov 08 04:43	28°  25'05'16	18°22'51	morning set	2949 Nov 09 05:06	8°  25'21'11	
	2948 Nov 09 22:47	0°		desc. node	2949 Nov 22 07:40	0°	
morning set	2948 Nov 27 16:43	26° 25'51'59			2949 Nov 22 07:09	0°	
	2948 Nov 29 15:23	0°					

superior conj	2949 Nov 22 15:26	0° J 33'22	-0°02'13	morning set	2950 Oct 22 16:50	20° L 57'29	
minimum elong	2949 Nov 22 15:10	0° J 32'16	0°02'11		2950 Oct 27 19:58	0° M	
behind sun begin	2949 Nov 22 04:53	29° M 50'51					
behind sun end	2949 Nov 23 01:27	1° J 13'37		superior conj	2950 Nov 03 04:36	10° M 54'21	0°40'35
max. Earth dist.	2949 Nov 27 08:21	8° J 03'48	1.44726 AU	minimum elong	2950 Nov 03 08:17	11° M 09'47	0°40'05
evening rise	2949 Dec 08 21:12	26° J 02'47		desc. node	2950 Nov 09 04:42	20° M 49'24	
	2949 Dec 11 10:57	0° Z		max. Earth dist.	2950 Nov 10 00:05	22° M 07'54	1.43583 AU
greatest brilliancy	2949 Dec 23 08:08	17° Z 56'20	-0.6m		2950 Nov 14 22:34	0° J	
	2950 Jan 01 01:13	0° \approx		evening rise	2950 Nov 18 06:24	5° J 11'38	
evening max el	2950 Jan 04 14:15	4° \approx 04'05	20°08'18		2950 Dec 04 20:36	0° Z	
asc. node	2950 Jan 11 14:28	8° \approx 33'35		evening max el	2950 Dec 18 13:11	17° Z 35'56	21°16'20
retrograde	2950 Jan 12 08:19	8° \approx 36'38		retrograde	2950 Dec 27 05:59	22° Z 45'42	
evening set	2950 Jan 16 01:55	7° \approx 15'26		asc. node	2950 Dec 29 11:30	22° Z 18'20	
inferior conj	2950 Jan 21 11:51	1° \approx 11'33	2°53'07	evening set	2950 Dec 31 09:30	21° Z 09'17	
minimum elong	2950 Jan 21 09:19	1° \approx 20'03	2°52'29	inferior conj	2951 Jan 05 17:59	14° Z 54'58	2°16'43
	2950 Jan 22 09:05	30° R Z		minimum elong	2951 Jan 05 15:31	15° Z 03'30	2°15'55
min. Earth dist.	2950 Jan 22 07:41	0° \approx 04'41	0.67117 AU	min. Earth dist.	2951 Jan 06 01:28	14° Z 29'07	0.67702 AU
morning rise	2950 Jan 26 16:30	24° Z 57'52		morning rise	2951 Jan 10 21:21	8° Z 42'15	
direct	2950 Feb 01 12:04	22° Z 22'10		direct	2951 Jan 16 02:14	6° Z 26'12	
morning max el	2950 Feb 13 04:35	29° Z 21'06	24°56'36	morning max el	2951 Jan 26 13:16	12° Z 39'46	23°28'34
	2950 Feb 13 19:46	0° \approx		desc. node	2951 Feb 05 03:56	24° Z 06'49	
desc. node	2950 Feb 18 06:54	5° \approx 01'20			2951 Feb 09 11:24	0° \approx	
	2950 Mar 08 03:38	0° H			2951 Mar 01 00:16	0° H	
morning set	2950 Mar 21 08:00	21° H 57'38		morning set	2951 Mar 02 17:20	2° H 52'15	
max. Earth dist.	2950 Mar 24 23:22	28° H 33'49	1.36943 AU	max. Earth dist.	2951 Mar 06 18:13	9° H 48'54	1.39063 AU
	2950 Mar 25 17:57	0° Y					
superior conj	2950 Mar 31 09:29	10° Y 48'05	-1°24'23	superior conj	2951 Mar 14 07:08	23° H 27'22	-1°47'28
minimum elong	2950 Mar 31 13:40	11° Y 08'35	1°23'46	minimum elong	2951 Mar 14 11:33	23° H 48'03	1°47'04
evening rise	2950 Apr 08 19:01	27° Y 35'56			2951 Mar 17 18:11	0° Y	
asc. node	2950 Apr 09 13:48	29° Y 09'54		evening rise	2951 Mar 23 14:11	11° Y 16'23	
	2950 Apr 09 23:51	0° B		asc. node	2951 Mar 27 10:50	18° Y 39'55	
evening max el	2950 Apr 25 20:35	25° B 17'32	19°28'56		2951 Apr 02 23:15	0° B	
retrograde	2950 May 05 07:10	29° B 52'01		evening max el	2951 Apr 08 21:10	7° B 32'43	18°41'46
evening set	2950 May 07 07:33	29° B 40'25		retrograde	2951 Apr 16 20:50	11° B 27'02	
inferior conj	2950 May 15 21:47	25° B 35'02	0°23'26	evening set	2951 Apr 19 02:53	11° B 09'33	
minimum elong	2950 May 15 22:47	25° B 33'26	0°23'04	inferior conj	2951 Apr 26 21:20	6° B 46'26	1°58'04
desc. node	2950 May 17 06:06	24° B 42'51		minimum elong	2951 Apr 27 01:02	6° B 39'29	1°56'58
min. Earth dist.	2950 May 18 12:10	23° B 55'00	0.55884 AU	min. Earth dist.	2951 Apr 30 05:26	4° B 17'21	0.57555 AU
morning rise	2950 May 24 11:12	20° B 54'12		desc. node	2951 May 04 03:08	1° B 51'58	
direct	2950 May 29 01:36	20° B 06'18		morning rise	2951 May 04 20:00	1° B 31'43	
morning max el	2950 Jun 12 03:41	27° B 13'19	24°55'36	direct	2951 May 10 11:03	0° B 13'23	
	2950 Jun 14 20:35	0° II		morning max el	2951 May 24 19:37	7° B 46'54	26°24'06
	2950 Jul 04 02:57	0° E			2951 Jun 10 10:15	0° II	
asc. node	2950 Jul 06 13:03	4° E 54'14		morning set	2951 Jun 22 16:12	23° II 16'17	
morning set	2950 Jul 08 05:21	8° E 24'59		asc. node	2951 Jun 23 10:06	24° II 51'05	
					2951 Jun 25 19:31	0° E	
superior conj	2950 Jul 15 04:30	23° E 30'40	1°19'52	superior conj	2951 Jun 29 16:01	8° E 27'30	1°01'37
minimum elong	2950 Jul 15 02:09	23° E 17'46	1°19'32	minimum elong	2951 Jun 29 13:47	8° E 15'12	1°01'13
max. Earth dist.	2950 Jul 16 14:39	26° E 36'25	1.32747 AU	max. Earth dist.	2951 Jun 30 01:10	9° E 17'50	1.32237 AU
	2950 Jul 18 04:22	0° O		evening rise	2951 Jul 06 14:25	23° E 27'14	
evening rise	2950 Jul 22 09:03	8° O 48'46			2951 Jul 09 19:10	0° O	
	2950 Aug 02 15:32	0° P			2951 Jul 27 14:08	0° P	
desc. node	2950 Aug 13 05:25	16° P 16'32		desc. node	2951 Jul 31 02:26	4° P 33'08	
evening max el	2950 Aug 24 01:20	28° P 57'26	27°24'34	evening max el	2951 Aug 06 06:23	11° P 16'41	26°56'47
	2950 Aug 25 04:33	0° L		retrograde	2951 Aug 20 04:15	18° P 29'00	
retrograde	2950 Sep 06 19:33	6° L 13'55		evening set	2951 Aug 27 03:44	16° P 20'57	
evening set	2950 Sep 14 00:21	3° L 42'22		min. Earth dist.	2951 Aug 30 20:37	13° P 41'25	0.60823 AU
min. Earth dist.	2950 Sep 17 14:54	0° L 43'29	0.62785 AU	inferior conj	2951 Sep 03 01:22	10° P 59'03	-4°28'22
	2950 Sep 18 09:18	30° R P		minimum elong	2951 Sep 03 06:38	10° P 47'52	4°27'21
inferior conj	2950 Sep 20 10:40	28° P 00'21	-3°39'49	morning rise	2951 Sep 10 11:20	6° P 10'43	
minimum elong	2950 Sep 20 16:12	27° P 47'01	3°38'12	direct	2951 Sep 12 20:41	5° P 48'10	
morning rise	2950 Sep 27 09:32	22° P 51'07		asc. node	2951 Sep 19 09:18	8° P 43'45	
direct	2950 Sep 29 19:48	22° P 24'02		morning max el	2951 Sep 20 02:13	9° P 23'00	18°02'48
asc. node	2950 Oct 02 12:15	22° P 58'03			2951 Oct 03 12:52	0° L	
morning max el	2950 Oct 06 12:52	25° P 50'41	17°50'59	morning set	2951 Oct 05 21:37	4° L 22'30	
	2950 Oct 10 01:08	0° L					

superior conj	2951 Oct 15 20:19	22°♄33'00	1°12'32	superior conj	2952 Sep 27 10:05	5°♄16'49	1°32'56
minimum elong	2951 Oct 16 00:36	22°♄52'01	1°12'02	minimum elong	2952 Sep 27 13:07	5°♄30'58	1°32'41
	2951 Oct 20 02:51	0°♄		max. Earth dist.	2952 Oct 04 17:40	18°♄30'45	1.39901 AU
max. Earth dist.	2951 Oct 23 11:20	5°♄40'24	1.41906 AU	evening rise	2952 Oct 08 21:44	25°♄38'58	
desc. node	2951 Oct 27 01:44	11°♄36'01			2952 Oct 11 12:44	0°♄	
evening rise	2951 Oct 29 03:09	14°♄55'11		desc. node	2952 Oct 12 22:47	2°♄18'25	
	2951 Nov 07 20:59	0°♄			2952 Oct 31 14:17	0°♄	
	2951 Nov 30 04:10	0°♄		evening max el	2952 Nov 12 20:53	14°♄46'23	23°52'57
evening max el	2951 Dec 01 06:56	1°♄09'35	22°33'00	retrograde	2952 Nov 23 18:13	21°♄11'10	
retrograde	2951 Dec 11 01:41	6°♄58'16		evening set	2952 Nov 28 22:41	19°♄01'38	
evening set	2951 Dec 15 16:57	5°♄05'24		asc. node	2952 Dec 02 05:35	15°♄27'57	
asc. node	2951 Dec 16 08:33	4°♄31'02		inferior conj	2952 Dec 04 08:49	12°♄37'09	0°43'31
	2951 Dec 20 03:34	30°♄		minimum elong	2952 Dec 04 07:48	12°♄40'36	0°43'05
inferior conj	2951 Dec 21 01:35	28°♄44'06	1°33'05	min. Earth dist.	2952 Dec 03 18:16	13°♄26'34	0.67781 AU
minimum elong	2951 Dec 20 23:38	28°♄50'51	1°32'21	morning rise	2952 Dec 09 16:55	6°♄31'57	
min. Earth dist.	2951 Dec 20 21:46	28°♄57'17	0.67918 AU	direct	2952 Dec 13 17:01	5°♄01'20	
morning rise	2951 Dec 26 06:11	22°♄34'10		morning max el	2952 Dec 21 19:56	9°♄42'06	20°42'10
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morning max el	2952 Jan 09 01:15	26°♄05'18	22°01'15	desc. node	2953 Jan 08 22:00	3°♄49'48	
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desc. node	2952 Jan 23 00:58	13°♄45'58			2953 Jan 25 21:47	0°♄	
	2952 Feb 03 00:34	0°♄		max. Earth dist.	2953 Jan 28 21:41	4°♄48'54	1.43082 AU
morning set	2952 Feb 10 21:53	12°♄23'00					
max. Earth dist.	2952 Feb 16 16:15	21°♄50'38	1.41209 AU	superior conj	2953 Feb 04 13:36	15°♄47'49	-2°05'26
	2952 Feb 21 11:11	0°♄		minimum elong	2953 Feb 04 11:50	15°♄40'26	2°05'24
					2953 Feb 12 20:08	0°♄	
superior conj	2952 Feb 24 10:11	5°♄10'54	-2°02'48	evening rise	2953 Feb 16 14:35	6°♄38'41	
minimum elong	2952 Feb 24 12:53	5°♄22'54	2°02'42	asc. node	2953 Feb 28 04:55	26°♄22'31	
evening rise	2952 Mar 05 22:02	24°♄19'57			2953 Mar 02 18:26	0°♄	
	2952 Mar 08 23:33	0°♄		evening max el	2953 Mar 05 16:33	3°♄23'03	18°07'10
asc. node	2952 Mar 13 07:53	7°♄46'31		retrograde	2953 Mar 12 05:28	6°♄46'19	
evening max el	2952 Mar 22 04:54	20°♄17'19	18°14'39	evening set	2953 Mar 14 23:24	6°♄09'57	
retrograde	2952 Mar 29 05:26	23°♄48'17		inferior conj	2953 Mar 21 09:23	1°♄05'22	3°31'38
evening set	2952 Mar 31 17:46	23°♄22'07		minimum elong	2953 Mar 21 11:03	1°♄01'11	3°31'28
inferior conj	2952 Apr 07 18:05	18°♄38'03	2°59'47		2953 Mar 22 11:10	30°♄	
minimum elong	2952 Apr 07 21:28	18°♄30'38	2°59'07	min. Earth dist.	2953 Mar 24 09:43	28°♄04'15	0.61793 AU
min. Earth dist.	2952 Apr 11 03:39	15°♄40'37	0.59638 AU	morning rise	2953 Mar 27 21:09	25°♄07'35	
morning rise	2952 Apr 14 22:43	12°♄56'57		direct	2953 Apr 03 17:36	22°♄41'39	
desc. node	2952 Apr 20 00:10	11°♄07'55		desc. node	2953 Apr 06 21:12	23°♄09'55	
direct	2952 Apr 21 09:02	11°♄02'47			2953 Apr 17 05:29	0°♄	
morning max el	2952 May 05 17:10	18°♄51'27	27°25'12	morning max el	2953 Apr 17 21:08	0°♄38'18	27°50'16
	2952 May 15 02:43	0°♄			2953 May 09 05:06	0°♄	
	2952 Jun 02 02:04	0°♄		morning set	2953 May 21 03:50	22°♄22'16	
morning set	2952 Jun 06 00:20	7°♄57'24			2953 May 24 19:33	0°♄	
asc. node	2952 Jun 09 07:10	14°♄55'53		max. Earth dist.	2953 May 26 23:00	4°♄36'15	1.32388 AU
max. Earth dist.	2952 Jun 12 13:15	22°♄02'05	1.32115 AU	asc. node	2953 May 27 04:13	5°♄04'28	
superior conj	2952 Jun 13 03:42	23°♄21'35	0°39'41	superior conj	2953 May 28 13:52	8°♄07'30	0°14'44
minimum elong	2952 Jun 13 02:03	23°♄12'27	0°39'20	minimum elong	2953 May 28 13:11	8°♄03'47	0°14'36
	2952 Jun 16 04:08	0°♄		behind sun begin	2953 May 28 11:09	7°♄52'41	
evening rise	2952 Jun 19 23:52	8°♄15'16		behind sun end	2953 May 28 15:13	8°♄14'54	
	2952 Jul 01 06:33	0°♄		evening rise	2953 Jun 04 11:22	23°♄06'13	
desc. node	2952 Jul 16 23:28	21°♄37'01			2953 Jun 07 18:59	0°♄	
evening max el	2952 Jul 18 04:14	22°♄47'49	25°56'35		2953 Jun 26 09:53	0°♄	
retrograde	2952 Aug 01 03:51	29°♄56'35		evening max el	2953 Jun 29 19:19	3°♄35'21	24°31'27
evening set	2952 Aug 07 09:43	28°♄23'08		desc. node	2953 Jul 03 20:29	6°♄59'27	
min. Earth dist.	2952 Aug 11 16:38	25°♄46'30	0.58756 AU	retrograde	2953 Jul 13 16:48	10°♄36'53	
inferior conj	2952 Aug 14 22:53	23°♄22'55	-4°59'26	evening set	2953 Jul 18 15:47	9°♄41'40	
minimum elong	2952 Aug 15 01:28	23°♄18'09	4°59'15	min. Earth dist.	2953 Jul 24 06:19	6°♄49'25	0.56852 AU
morning rise	2952 Aug 22 19:24	18°♄57'46		inferior conj	2953 Jul 27 00:30	5°♄03'34	-4°59'34
direct	2952 Aug 25 06:47	18°♄37'36		minimum elong	2953 Jul 26 21:48	5°♄07'55	4°59'23
morning max el	2952 Sep 02 09:31	22°♄30'20	18°34'52	morning rise	2953 Aug 04 06:29	0°♄59'44	
asc. node	2952 Sep 05 06:21	25°♄40'39		direct	2953 Aug 06 22:01	0°♄40'34	
	2952 Sep 08 08:42	0°♄		morning max el	2953 Aug 16 07:43	5°♄03'29	19°28'13
morning set	2952 Sep 18 14:25	18°♄22'01		asc. node	2953 Aug 23 03:24	13°♄33'54	
	2952 Sep 24 15:01	0°♄			2953 Sep 01 06:17	0°♄	
				morning set	2953 Sep 02 15:30	2°♄45'25	




































































































































superior conj	2953 Sep 10 16:19	18° \mathbb{M} 49'31	1°43'06	morning max el	2954 Jul 29 18:38	16° \mathbb{S} 54'51	20°42'41
minimum elong	2953 Sep 10 17:33	18° \mathbb{M} 55'34	1°43'04		2954 Aug 08 17:51	0° \mathcal{Q}	
	2953 Sep 16 12:49	0° \mathcal{E}		asc. node	2954 Aug 10 00:27	2° \mathcal{Q} 10'45	
max. Earth dist.	2953 Sep 16 21:37	0° \mathcal{E} 40'39	1.37832 AU	morning set	2954 Aug 17 22:09	17° \mathcal{Q} 25'48	
evening rise	2953 Sep 20 15:47	7° \mathcal{E} 27'50			2954 Aug 23 23:43	0° \mathbb{M}	
desc. node	2953 Sep 29 19:48	22° \mathcal{E} 52'06					
	2953 Oct 04 09:48	0° \mathbb{M}		superior conj	2954 Aug 25 10:20	2° \mathbb{M} 57'49	1°44'46
evening max el	2953 Oct 26 09:02	28° \mathbb{M} 26'02	25°09'37	minimum elong	2954 Aug 25 09:57	2° \mathbb{M} 55'50	1°44'46
	2953 Oct 28 00:56	0° \mathcal{A}		max. Earth dist.	2954 Aug 30 05:06	12° \mathbb{M} 31'57	1.35946 AU
retrograde	2953 Nov 07 06:37	5° \mathcal{A} 19'13		evening rise	2954 Sep 03 06:13	20° \mathbb{M} 14'55	
evening set	2953 Nov 13 01:03	2° \mathcal{A} 54'20			2954 Sep 08 16:27	0° \mathcal{E}	
	2953 Nov 15 20:19	30° $\mathcal{R}\mathbb{M}$		desc. node	2954 Sep 16 16:50	13° \mathcal{E} 12'15	
min. Earth dist.	2953 Nov 17 12:39	27° \mathbb{M} 53'31	0.67302 AU		2954 Sep 28 09:16	0° \mathbb{M}	
inferior conj	2953 Nov 18 13:56	26° \mathbb{M} 30'59	-0°10'53	evening max el	2954 Oct 08 21:14	12° \mathbb{M} 06'42	26°15'33
minimum elong	2953 Nov 18 14:13	26° \mathbb{M} 30'06	0°10'47	retrograde	2954 Oct 21 14:07	19° \mathbb{M} 17'04	
transit middle	2953 Nov 18 14:13	26° \mathbb{M} 30'06	0°10'47	evening set	2954 Oct 27 22:13	16° \mathbb{M} 40'24	
transit begin	2953 Nov 18 12:08	26° \mathbb{M} 36'52		min. Earth dist.	2954 Nov 01 02:37	12° \mathbb{M} 15'05	0.66487 AU
transit end	2953 Nov 18 16:17	26° \mathbb{M} 23'19		inferior conj	2954 Nov 02 15:06	10° \mathbb{M} 22'52	-1°08'49
asc. node	2953 Nov 19 02:36	25° \mathbb{M} 49'46		minimum elong	2954 Nov 02 16:57	10° \mathbb{M} 17'12	1°08'03
morning rise	2953 Nov 24 03:35	20° \mathbb{M} 32'42		asc. node	2954 Nov 05 23:38	6° \mathbb{M} 33'40	
direct	2953 Nov 27 15:21	19° \mathbb{M} 22'25		morning rise	2954 Nov 08 12:10	4° \mathbb{M} 34'07	
morning max el	2953 Dec 04 22:29	23° \mathbb{M} 29'35	19°35'49	direct	2954 Nov 11 13:43	3° \mathbb{M} 40'39	
	2953 Dec 10 09:54	0° \mathcal{A}		morning max el	2954 Nov 18 07:58	7° \mathbb{M} 24'39	18°44'42
greatest brilliancy	2953 Dec 18 02:58	11° \mathcal{A} 00'22	-0.7m		2954 Dec 04 07:50	0° \mathcal{A}	
desc. node	2953 Dec 26 19:02	24° \mathcal{A} 10'55		morning set	2954 Dec 09 13:03	8° \mathcal{A} 13'55	
morning set	2953 Dec 29 22:00	28° \mathcal{A} 59'58		desc. node	2954 Dec 13 16:04	14° \mathcal{A} 44'25	
	2953 Dec 30 13:32	0° \mathcal{S}			2954 Dec 23 09:09	0° \mathcal{S}	
max. Earth dist.	2954 Jan 11 09:55	18° \mathcal{S} 31'59	1.44442 AU	max. Earth dist.	2954 Dec 25 02:58	2° \mathcal{S} 44'08	1.45135 AU
superior conj	2954 Jan 15 14:50	25° \mathcal{S} 14'27	-1°50'24	superior conj	2954 Dec 25 20:16	3° \mathcal{S} 52'03	-1°16'22
minimum elong	2954 Jan 15 07:28	24° \mathcal{S} 44'52	1°49'53	minimum elong	2954 Dec 25 11:33	3° \mathcal{S} 17'50	1°15'23
	2954 Jan 18 13:35	0° \approx		evening rise	2955 Jan 10 09:10	28° \mathcal{S} 31'12	
evening rise	2954 Jan 29 11:22	18° \approx 03'46			2955 Jan 11 07:16	0° \approx	
	2954 Feb 05 13:52	0° \mathcal{H}		greatest brilliancy	2955 Jan 17 11:22	9° \approx 55'06	-0.9m
asc. node	2954 Feb 15 01:56	14° \mathcal{H} 18'14		evening max el	2955 Jan 31 16:10	0° \mathcal{H} 08'56	18°48'29
evening max el	2954 Feb 17 05:09	16° \mathcal{H} 42'08	18°18'46		2955 Jan 31 12:41	0° \mathcal{H}	
retrograde	2954 Feb 23 16:11	20° \mathcal{H} 11'00		asc. node	2955 Feb 01 22:56	1° \mathcal{H} 21'59	
evening set	2954 Feb 26 15:36	19° \mathcal{H} 23'26		retrograde	2955 Feb 07 09:36	3° \mathcal{H} 54'51	
inferior conj	2954 Mar 04 15:05	13° \mathcal{H} 59'47	3°40'17	evening set	2955 Feb 10 15:08	2° \mathcal{H} 55'04	
minimum elong	2954 Mar 04 14:55	14° \mathcal{H} 00'16	3°40'16		2955 Feb 13 23:07	30° $\mathcal{R}\approx$	
min. Earth dist.	2954 Mar 07 01:06	11° \mathcal{H} 16'39	0.63760 AU	inferior conj	2955 Feb 16 07:22	27° \approx 14'01	3°31'41
morning rise	2954 Mar 10 13:24	7° \mathcal{H} 52'59		minimum elong	2955 Feb 16 05:49	27° \approx 18'46	3°31'31
direct	2954 Mar 17 10:50	5° \mathcal{H} 06'57		min. Earth dist.	2955 Feb 18 01:46	25° \approx 03'32	0.65387 AU
desc. node	2954 Mar 24 18:13	7° \mathcal{H} 39'09		morning rise	2955 Feb 21 20:06	21° \approx 02'48	
morning max el	2954 Mar 31 05:24	13° \mathcal{H} 03'26	27°38'09	direct	2955 Feb 28 11:07	18° \approx 11'15	
	2954 Apr 13 19:40	0° \mathcal{Y}		desc. node	2955 Mar 11 15:14	24° \approx 00'48	
	2954 May 01 17:28	0° \mathcal{B}		morning max el	2955 Mar 13 15:06	25° \approx 55'50	26°53'18
morning set	2954 May 05 00:17	6° \mathcal{B} 23'04			2955 Mar 17 09:14	0° \mathcal{H}	
max. Earth dist.	2954 May 10 02:16	16° \mathcal{B} 46'51	1.33079 AU		2955 Apr 07 08:35	0° \mathcal{Y}	
superior conj	2954 May 12 20:43	22° \mathcal{B} 39'30	-0°12'28	morning set	2955 Apr 18 10:28	19° \mathcal{Y} 49'21	
minimum elong	2954 May 12 21:20	22° \mathcal{B} 42'49	0°12'19	max. Earth dist.	2955 Apr 22 19:28	28° \mathcal{Y} 24'51	1.34231 AU
behind sun begin	2954 May 12 17:55	22° \mathcal{B} 24'30			2955 Apr 23 14:19	0° \mathcal{B}	
behind sun end	2954 May 13 00:46	23° \mathcal{B} 01'08		superior conj	2955 Apr 26 22:08	6° \mathcal{B} 50'27	-0°40'52
asc. node	2954 May 14 01:15	25° \mathcal{B} 12'41		minimum elong	2955 Apr 27 00:14	7° \mathcal{B} 01'28	0°40'26
	2954 May 16 06:33	0° \mathbb{I}		asc. node	2955 Apr 30 22:16	15° \mathcal{B} 15'56	
evening rise	2954 May 19 23:04	7° \mathbb{I} 53'47		evening rise	2955 May 04 09:04	22° \mathcal{B} 31'15	
	2954 May 31 14:16	0° \mathcal{S}			2955 May 08 01:04	0° \mathbb{I}	
evening max el	2954 Jun 11 09:00	14° \mathcal{S} 02'56	22°55'21	evening max el	2955 May 24 04:55	24° \mathbb{I} 41'26	21°23'04
desc. node	2954 Jun 20 17:29	20° \mathcal{S} 05'33			2955 Jun 01 08:40	0° \mathcal{S}	
retrograde	2954 Jun 24 17:26	20° \mathcal{S} 42'05		retrograde	2955 Jun 05 07:33	0° \mathcal{S} 37'40	
evening set	2954 Jun 28 04:03	20° \mathcal{S} 16'06		evening set	2955 Jun 07 16:04	0° \mathcal{S} 24'59	
min. Earth dist.	2954 Jul 05 17:50	16° \mathcal{S} 54'09	0.55454 AU	desc. node	2955 Jun 07 14:30	0° \mathcal{S} 25'40	
inferior conj	2954 Jul 07 07:00	16° \mathcal{S} 00'29	-4°14'31		2955 Jun 09 10:12	30° $\mathcal{R}\mathbb{I}$	
minimum elong	2954 Jul 06 23:25	16° \mathcal{S} 11'28	4°12'54	inferior conj	2955 Jun 17 01:34	26° \mathbb{I} 25'33	-2°41'42
morning rise	2954 Jul 15 21:09	12° \mathcal{S} 08'28		minimum elong	2955 Jun 16 18:23	26° \mathbb{I} 35'37	2°39'21
direct	2954 Jul 18 18:40	11° \mathcal{S} 48'44		min. Earth dist.	2955 Jun 17 05:26	26° \mathbb{I} 20'09	0.54873 AU

morning rise	2955 Jun 25 21:16	22° Π 28'41		min. Earth dist.	2956 May 28 18:12	5° Π 41'38	0.55258 AU
direct	2955 Jun 29 05:00	22° Π 04'42		morning rise	2956 Jun 04 16:31	2° Π 26'56	
morning max el	2955 Jul 11 18:14	28° Π 01'25	22°15'16	direct	2956 Jun 08 17:43	1° Π 51'12	
	2955 Jul 13 17:45	0° \mathfrak{S}		morning max el	2956 Jun 22 10:09	8° Π 35'01	23°57'37
asc. node	2955 Jul 27 21:31	21° \mathfrak{S} 19'47			2956 Jul 08 01:10	0° \mathfrak{S}	
	2955 Aug 01 05:59	0° Ω		asc. node	2956 Jul 13 18:35	10° \mathfrak{S} 52'38	
morning set	2955 Aug 02 08:12	2° Ω 16'11		morning set	2956 Jul 16 19:52	17° \mathfrak{S} 11'17	
					2956 Jul 22 18:37	0° Ω	
superior conj	2955 Aug 09 12:29	17° Ω 29'53	1°39'29	superior conj	2956 Jul 23 19:57	2° Ω 17'11	1°28'27
minimum elong	2955 Aug 09 10:55	17° Ω 21'38	1°39'22	minimum elong	2956 Jul 23 17:44	2° Ω 05'11	1°28'11
max. Earth dist.	2955 Aug 12 20:57	24° Ω 29'33	1.34394 AU	max. Earth dist.	2956 Jul 25 21:59	6° Ω 46'11	1.33236 AU
	2955 Aug 15 14:14	0° \mathfrak{M}		evening rise	2956 Jul 31 06:04	17° Ω 52'30	
evening rise	2955 Aug 17 12:21	3° \mathfrak{M} 47'00			2956 Aug 06 13:07	0° \mathfrak{M}	
	2955 Sep 01 11:52	0° \mathfrak{L}		desc. node	2956 Aug 20 10:52	22° \mathfrak{M} 41'47	
desc. node	2955 Sep 03 13:51	3° \mathfrak{L} 11'44			2956 Aug 25 20:59	0° \mathfrak{L}	
evening max el	2955 Sep 21 09:47	25° \mathfrak{L} 40'32	27°03'11	evening max el	2956 Sep 02 21:11	8° \mathfrak{L} 55'18	27°25'24
	2955 Sep 26 15:32	0° \mathfrak{M}		retrograde	2956 Sep 16 11:40	16° \mathfrak{L} 12'28	
retrograde	2955 Oct 04 15:58	2° \mathfrak{M} 57'32		evening set	2956 Sep 23 15:22	13° \mathfrak{L} 33'28	
evening set	2955 Oct 11 11:56	0° \mathfrak{M} 15'10		min. Earth dist.	2956 Sep 27 07:42	10° \mathfrak{L} 18'14	0.63808 AU
	2955 Oct 11 19:22	30° \mathfrak{R} \mathfrak{L}		inferior conj	2956 Sep 29 20:42	7° \mathfrak{L} 41'36	-3°07'39
min. Earth dist.	2955 Oct 15 09:42	26° \mathfrak{L} 25'57	0.65322 AU	minimum elong	2956 Sep 30 01:42	7° \mathfrak{L} 28'45	3°05'59
inferior conj	2955 Oct 17 10:12	24° \mathfrak{L} 08'19	-2°08'35	morning rise	2956 Oct 06 13:14	2° \mathfrak{L} 21'41	
minimum elong	2955 Oct 17 13:43	23° \mathfrak{L} 58'18	2°07'13	direct	2956 Oct 09 01:32	1° \mathfrak{L} 50'33	
morning rise	2955 Oct 23 16:20	18° \mathfrak{L} 32'13		asc. node	2956 Oct 09 17:45	1° \mathfrak{L} 52'51	
asc. node	2955 Oct 23 20:41	18° \mathfrak{L} 27'05		morning max el	2956 Oct 15 14:39	5° \mathfrak{L} 15'53	17°52'50
direct	2955 Oct 26 10:00	17° \mathfrak{L} 51'42			2956 Oct 31 19:23	0° \mathfrak{M}	
morning max el	2955 Nov 01 22:16	21° \mathfrak{L} 22'06	18°10'08	morning set	2956 Nov 01 08:27	0° \mathfrak{M} 56'21	
	2955 Nov 08 14:50	0° \mathfrak{M}					
morning set	2955 Nov 20 09:20	18° \mathfrak{M} 56'12		superior conj	2956 Nov 13 22:00	22° \mathfrak{M} 07'37	0°17'07
	2955 Nov 27 04:03	0° \mathfrak{J}		minimum elong	2956 Nov 13 23:51	22° \mathfrak{M} 15'11	0°16'51
desc. node	2955 Nov 30 13:07	5° \mathfrak{J} 26'09		desc. node	2956 Nov 16 10:09	26° \mathfrak{M} 12'18	
					2956 Nov 18 18:45	0° \mathfrak{J}	
superior conj	2955 Dec 05 00:02	12° \mathfrak{J} 31'43	-0°29'53	max. Earth dist.	2956 Nov 19 16:39	1° \mathfrak{J} 27'26	1.44316 AU
minimum elong	2955 Dec 04 20:13	12° \mathfrak{J} 16'39	0°29'21	evening rise	2956 Nov 29 18:54	17° \mathfrak{J} 15'08	
max. Earth dist.	2955 Dec 07 22:22	17° \mathfrak{J} 09'14	1.45088 AU		2956 Dec 08 04:03	0° \mathfrak{Z}	
	2955 Dec 16 03:28	0° \mathfrak{Z}		evening max el	2956 Dec 28 01:36	27° \mathfrak{Z} 10'21	20°35'54
evening rise	2955 Dec 21 08:50	8° \mathfrak{Z} 07'27			2956 Dec 31 05:45	0° \mathfrak{A}	
greatest brilliancy	2956 Jan 02 21:20	27° \mathfrak{Z} 24'36	-0.7m	retrograde	2957 Jan 05 04:39	1° \mathfrak{A} 58'06	
	2956 Jan 04 14:53	0° \mathfrak{A}		asc. node	2957 Jan 05 17:01	1° \mathfrak{A} 56'37	
evening max el	2956 Jan 14 23:30	13° \mathfrak{A} 39'25	19°34'55	evening set	2957 Jan 09 02:20	0° \mathfrak{A} 30'20	
asc. node	2956 Jan 19 19:58	17° \mathfrak{A} 19'55			2957 Jan 09 17:17	30° \mathfrak{R} \mathfrak{Z}	
retrograde	2956 Jan 22 06:35	17° \mathfrak{A} 52'17		inferior conj	2957 Jan 14 11:25	24° \mathfrak{Z} 21'30	2°38'38
evening set	2956 Jan 25 19:25	16° \mathfrak{A} 39'07		minimum elong	2957 Jan 14 08:51	24° \mathfrak{Z} 30'14	2°37'55
inferior conj	2956 Jan 31 07:01	10° \mathfrak{A} 42'50	3°10'11	min. Earth dist.	2957 Jan 15 01:44	23° \mathfrak{Z} 32'35	0.67411 AU
minimum elong	2956 Jan 31 04:41	10° \mathfrak{A} 50'28	3°09'43	morning rise	2957 Jan 19 15:13	18° \mathfrak{Z} 08'14	
min. Earth dist.	2956 Feb 01 10:37	9° \mathfrak{A} 12'16	0.66605 AU	direct	2957 Jan 25 04:34	15° \mathfrak{Z} 40'34	
morning rise	2956 Feb 05 13:44	4° \mathfrak{A} 29'44		morning max el	2957 Feb 05 08:55	22° \mathfrak{Z} 20'51	24°19'46
direct	2956 Feb 11 17:16	1° \mathfrak{A} 45'36		desc. node	2957 Feb 12 09:19	0° \mathfrak{A} 23'45	
morning max el	2956 Feb 24 00:23	9° \mathfrak{A} 04'36	25°43'56		2957 Feb 12 01:45	0° \mathfrak{A}	
desc. node	2956 Feb 26 12:17	11° \mathfrak{A} 43'42			2957 Mar 04 19:31	0° \mathfrak{H}	
	2956 Mar 11 11:48	0° \mathfrak{H}		morning set	2957 Mar 13 05:52	14° \mathfrak{H} 06'37	
	2956 Mar 29 21:22	0° \mathfrak{Y}		max. Earth dist.	2957 Mar 16 22:30	20° \mathfrak{H} 39'30	1.37828 AU
morning set	2956 Mar 31 06:12	2° \mathfrak{Y} 29'13			2957 Mar 21 23:45	0° \mathfrak{Y}	
max. Earth dist.	2956 Apr 04 01:18	9° \mathfrak{Y} 35'10	1.35845 AU				
				superior conj	2957 Mar 23 21:31	3° \mathfrak{Y} 38'11	-1°34'51
superior conj	2956 Apr 09 15:32	20° \mathfrak{Y} 33'18	-1°09'02	minimum elong	2957 Mar 24 01:58	3° \mathfrak{Y} 59'36	1°34'18
minimum elong	2956 Apr 09 19:05	20° \mathfrak{Y} 51'09	1°08'26	evening rise	2957 Apr 01 15:24	20° \mathfrak{Y} 50'02	
	2956 Apr 14 06:51	0° \mathfrak{B}		asc. node	2957 Apr 03 16:21	24° \mathfrak{Y} 50'33	
asc. node	2956 Apr 16 19:19	5° \mathfrak{B} 10'18			2957 Apr 06 08:57	0° \mathfrak{B}	
evening rise	2956 Apr 17 15:21	6° \mathfrak{B} 52'36		evening max el	2957 Apr 18 06:47	17° \mathfrak{B} 46'44	19°06'18
	2956 Apr 30 12:59	0° \mathfrak{H}		retrograde	2957 Apr 27 01:22	22° \mathfrak{B} 02'37	
evening max el	2956 May 05 12:03	5° \mathfrak{H} 54'00	20°05'06	evening set	2957 Apr 29 03:45	21° \mathfrak{B} 48'59	
retrograde	2956 May 15 21:57	10° \mathfrak{H} 57'20		inferior conj	2957 May 07 09:36	17° \mathfrak{B} 36'21	1°07'22
evening set	2956 May 17 21:47	10° \mathfrak{H} 47'02		minimum elong	2957 May 07 12:10	17° \mathfrak{B} 31'55	1°06'30
desc. node	2956 May 24 11:30	8° \mathfrak{H} 12'53		min. Earth dist.	2957 May 10 09:28	15° \mathfrak{B} 33'44	0.56523 AU
inferior conj	2956 May 26 22:00	6° \mathfrak{H} 47'39	-0°43'00	desc. node	2957 May 11 08:31	14° \mathfrak{B} 56'36	
minimum elong	2956 May 26 20:00	6° \mathfrak{H} 50'38	0°42'15				

morning rise	2957 May 15 17:30	12°♄40'35		morning rise	2958 Apr 26 09:20	23°♄37'40	
direct	2957 May 20 18:18	11°♄41'18		desc. node	2958 Apr 28 05:34	22°♄49'21	
morning max el	2957 Jun 04 00:36	19°♄00'54	25°35'52	direct	2958 May 02 09:23	22°♄04'09	
	2957 Jun 13 06:23	0°♄		morning max el	2958 May 16 18:48	29°♄46'09	26°54'08
	2957 Jun 30 07:32	0°♄			2958 May 17 00:27	0°♄	
asc. node	2957 Jun 30 15:39	0°♄42'28			2958 Jun 07 02:47	0°♄	
morning set	2957 Jul 01 07:30	2°♄05'47		morning set	2958 Jun 15 17:23	16°♄53'41	
				asc. node	2958 Jun 17 12:41	20°♄43'19	
					2958 Jun 21 18:53	0°♄	
superior conj	2957 Jul 08 06:33	17°♄12'36	1°12'37				
minimum elong	2957 Jul 08 04:11	16°♄59'38	1°12'14				
max. Earth dist.	2957 Jul 09 05:56	19°♄20'36	1.32481 AU	superior conj	2958 Jun 22 18:20	2°♄09'13	0°52'44
	2957 Jul 14 04:51	0°♄		minimum elong	2958 Jun 22 16:18	1°♄57'58	0°52'20
evening rise	2957 Jul 15 07:59	2°♄21'24		max. Earth dist.	2958 Jun 22 17:26	2°♄04'12	1.32130 AU
	2957 Jul 30 09:45	0°♄		evening rise	2958 Jun 29 15:19	17°♄04'46	
desc. node	2957 Aug 07 07:52	11°♄30'17			2958 Jul 06 01:49	0°♄	
evening max el	2957 Aug 16 05:06	21°♄37'59	27°16'46	desc. node	2958 Jul 25 04:54	29°♄19'18	
retrograde	2957 Aug 30 00:51	28°♄52'54			2958 Jul 25 19:17	0°♄	
evening set	2957 Sep 06 04:56	26°♄29'23		evening max el	2958 Jul 29 07:05	3°♄36'52	26°34'53
min. Earth dist.	2957 Sep 09 19:17	23°♄40'49	0.61976 AU	retrograde	2958 Aug 12 06:19	10°♄48'41	
inferior conj	2957 Sep 12 19:38	20°♄55'49	-4°01'52	evening set	2958 Aug 18 23:51	8°♄54'05	
minimum elong	2957 Sep 13 01:17	20°♄42'54	4°00'27	min. Earth dist.	2958 Aug 22 20:42	6°♄18'05	0.59937 AU
morning rise	2957 Sep 19 23:17	15°♄55'28		inferior conj	2958 Aug 26 03:27	3°♄40'58	-4°44'24
direct	2957 Sep 22 08:51	15°♄30'36		minimum elong	2958 Aug 26 07:56	3°♄32'00	4°43'46
asc. node	2957 Sep 26 14:50	16°♄51'19			2958 Aug 31 10:10	30°♄	
morning max el	2957 Sep 29 06:08	18°♄59'20	17°53'42	morning rise	2958 Sep 02 18:04	29°♄02'39	
	2957 Oct 07 06:37	0°♄		direct	2958 Sep 05 03:47	28°♄41'29	
morning set	2957 Oct 15 04:10	13°♄55'42			2958 Sep 09 15:49	0°♄	
	2957 Oct 24 04:27	0°♄		morning max el	2958 Sep 12 17:24	2°♄22'49	18°13'54
				asc. node	2958 Sep 13 11:53	3°♄09'24	
				morning set	2958 Sep 28 14:35	27°♄36'47	
superior conj	2957 Oct 25 22:53	3°♄03'29	0°55'35		2958 Sep 29 20:51	0°♄	
minimum elong	2957 Oct 26 03:09	3°♄21'50	0°55'01				
max. Earth dist.	2957 Nov 02 06:44	15°♄20'24	1.42919 AU				
desc. node	2957 Nov 03 07:11	17°♄00'04		superior conj	2958 Oct 08 00:41	15°♄12'02	1°22'31
evening rise	2957 Nov 09 07:12	26°♄34'15		minimum elong	2958 Oct 08 04:35	15°♄29'41	1°22'08
	2957 Nov 11 12:02	0°♄		max. Earth dist.	2958 Oct 15 15:14	28°♄33'40	1.41074 AU
	2957 Dec 02 01:21	0°♄			2958 Oct 16 11:38	0°♄	
evening max el	2957 Dec 10 22:06	10°♄42'20	21°48'07	evening rise	2958 Oct 20 12:31	6°♄41'37	
retrograde	2957 Dec 20 01:46	16°♄09'14		desc. node	2958 Oct 21 04:13	7°♄45'26	
asc. node	2957 Dec 23 14:03	15°♄02'08			2958 Nov 04 16:14	0°♄	
evening set	2957 Dec 24 10:04	14°♄25'48		evening max el	2958 Nov 23 13:55	24°♄16'48	23°06'59
inferior conj	2957 Dec 29 18:25	8°♄07'47	1°59'02		2958 Dec 01 14:39	0°♄	
minimum elong	2957 Dec 29 16:07	8°♄15'45	1°58'13	retrograde	2958 Dec 03 20:22	0°♄22'03	
min. Earth dist.	2957 Dec 29 20:55	7°♄59'04	0.67834 AU		2958 Dec 05 23:20	30°♄	
morning rise	2958 Jan 03 22:00	1°♄55'56		evening set	2958 Dec 08 16:58	28°♄22'15	
	2958 Jan 07 09:35	30°♄		asc. node	2958 Dec 10 11:05	26°♄39'09	
direct	2958 Jan 08 20:23	29°♄49'37		min. Earth dist.	2958 Dec 13 17:42	22°♄27'45	0.67899 AU
	2958 Jan 10 08:27	0°♄		inferior conj	2958 Dec 14 02:04	21°♄58'55	1°12'45
morning max el	2958 Jan 18 18:42	5°♄42'37	22°50'51	minimum elong	2958 Dec 14 00:28	22°♄04'26	1°12'06
desc. node	2958 Jan 30 06:23	19°♄44'54		morning rise	2958 Dec 19 07:52	15°♄50'28	
	2958 Feb 06 11:26	0°♄		direct	2958 Dec 23 15:47	14°♄06'55	
morning set	2958 Feb 22 03:20	24°♄26'09		morning max el	2959 Jan 01 09:09	19°♄12'18	21°26'11
	2958 Feb 25 11:03	0°♄			2959 Jan 10 07:28	0°♄	
max. Earth dist.	2958 Feb 26 17:46	2°♄11'02	1.39987 AU	desc. node	2959 Jan 17 03:26	9°♄35'31	
					2959 Jan 30 16:02	0°♄	
superior conj	2958 Mar 06 11:49	15°♄54'38	-1°55'13	morning set	2959 Feb 01 19:50	3°♄23'44	
minimum elong	2958 Mar 06 15:49	16°♄12'57	1°54'55	max. Earth dist.	2959 Feb 08 18:03	14°♄34'21	1.42049 AU
	2958 Mar 14 00:33	0°♄					
evening rise	2958 Mar 16 06:12	4°♄15'39		superior conj	2959 Feb 16 05:22	27°♄11'01	-2°05'48
asc. node	2958 Mar 21 13:23	14°♄11'20		minimum elong	2959 Feb 16 06:31	27°♄15'59	2°05'47
	2958 Apr 01 04:37	0°♄			2959 Feb 17 20:15	0°♄	
evening max el	2958 Apr 01 10:45	0°♄15'09	18°27'47	evening rise	2959 Feb 27 08:02	17°♄00'58	
retrograde	2958 Apr 08 23:20	3°♄57'48			2959 Mar 06 14:04	0°♄	
evening set	2958 Apr 11 07:57	3°♄37'01		asc. node	2959 Mar 08 10:24	3°♄06'04	
	2958 Apr 17 14:41	30°♄		evening max el	2959 Mar 15 20:36	13°♄10'20	18°09'12
inferior conj	2958 Apr 18 18:19	29°♄05'16	2°28'15	retrograde	2959 Mar 22 14:52	16°♄36'01	
minimum elong	2958 Apr 18 22:09	28°♄57'32	2°27'15	evening set	2959 Mar 25 05:39	16°♄05'42	
min. Earth dist.	2958 Apr 22 04:48	26°♄20'52	0.58406 AU	inferior conj	2959 Mar 31 23:25	11°♄13'09	3°16'33

minimum elong	2959 Apr 01 02:09	11° Υ 06'48	3°16'07	min. Earth dist.	2960 Mar 16 15:51	20° X 56'44	0.62666 AU
min. Earth dist.	2959 Apr 04 06:12	8° Υ 10'55	0.60560 AU	morning rise	2960 Mar 20 02:53	17° X 50'16	
morning rise	2959 Apr 07 20:33	5° Υ 23'58		direct	2960 Mar 27 00:57	15° X 14'08	
direct	2959 Apr 14 12:34	3° Υ 14'50		desc. node	2960 Mar 31 23:37	16° X 23'57	
desc. node	2959 Apr 15 02:35	3° Υ 15'48		morning max el	2960 Apr 10 00:53	23° X 11'01	27°49'33
morning max el	2959 Apr 28 19:03	11° Υ 08'14	27°40'27		2960 Apr 16 02:35	0° Υ	
	2959 May 13 12:49	0° Z			2960 May 05 18:42	0° Z	
	2959 May 30 06:29	0° Π		morning set	2960 May 14 00:35	15° Z 44'10	
morning set	2959 May 30 23:49	1° Π 29'08		max. Earth dist.	2960 May 19 12:19	27° Z 10'52	1.32631 AU
asc. node	2959 Jun 04 09:43	10° Π 50'37			2960 May 20 19:47	0° Π	
max. Earth dist.	2959 Jun 06 04:52	14° Π 45'34	1.32178 AU	asc. node	2960 May 21 06:44	0° Π 59'11	
superior conj	2959 Jun 07 05:37	17° Π 01'15	0°29'27	superior conj	2960 May 21 14:35	1° Π 41'41	0°03'27
minimum elong	2959 Jun 07 04:19	16° Π 54'10	0°29'11	minimum elong	2960 May 21 14:24	1° Π 40'46	0°03'25
	2959 Jun 13 04:16	0° S		behind sun begin	2960 May 21 09:18	1° Π 13'07	
evening rise	2959 Jun 14 01:53	1° S 55'25		behind sun end	2960 May 21 19:31	2° Π 08'26	
	2959 Jun 29 06:18	0° Ω		evening rise	2960 May 28 13:41	16° Π 45'32	
evening max el	2959 Jul 11 01:56	14° Ω 49'00	25°22'50		2960 Jun 04 03:03	0° S	
desc. node	2959 Jul 12 01:53	15° Ω 44'34		evening max el	2960 Jun 21 15:39	25° S 24'28	23°51'01
retrograde	2959 Jul 25 01:46	21° Ω 55'31		desc. node	2960 Jun 27 22:52	0° Ω 13'23	
evening set	2959 Jul 30 19:39	20° Ω 38'54			2960 Jun 27 13:25	0° Ω	
min. Earth dist.	2959 Aug 04 13:54	17° Ω 57'23	0.57909 AU	retrograde	2960 Jul 05 09:00	2° Ω 18'02	
inferior conj	2959 Aug 07 16:46	15° Ω 47'51	-5°04'14	evening set	2960 Jul 09 16:31	1° Ω 37'04	
minimum elong	2959 Aug 07 17:21	15° Ω 46'50	5°04'13		2960 Jul 13 12:42	30° R S	
morning rise	2959 Aug 15 17:26	11° Ω 31'57		min. Earth dist.	2960 Jul 16 02:03	28° S 33'52	0.56183 AU
direct	2959 Aug 18 06:13	11° Ω 12'24		inferior conj	2960 Jul 18 09:49	27° S 09'08	-4°46'37
morning max el	2959 Aug 26 21:09	15° Ω 16'49	18°54'47	minimum elong	2960 Jul 18 04:40	27° S 16'59	4°45'56
asc. node	2959 Aug 31 08:56	20° Ω 32'06		morning rise	2960 Jul 26 19:25	23° S 11'47	
	2959 Sep 06 06:20	0° P		direct	2960 Jul 29 13:30	22° S 52'27	
morning set	2959 Sep 12 11:18	11° P 47'30		morning max el	2960 Aug 08 14:34	27° S 32'06	19°57'20
					2960 Aug 10 23:39	0° Ω	
superior conj	2959 Sep 20 22:04	28° P 18'08	1°38'23	asc. node	2960 Aug 17 05:58	8° Ω 45'05	
minimum elong	2959 Sep 21 00:21	28° P 29'01	1°38'15	morning set	2960 Aug 26 15:03	26° Ω 19'03	
	2959 Sep 21 19:29	0° Q			2960 Aug 28 10:29	0° P	
max. Earth dist.	2959 Sep 27 19:48	11° Q 04'28	1.39021 AU				
evening rise	2959 Oct 01 17:19	17° Q 53'47		superior conj	2960 Sep 03 09:48	12° P 07'12	1°44'45
desc. node	2959 Oct 08 01:15	28° Q 24'36		minimum elong	2960 Sep 03 10:18	12° P 09'43	1°44'45
	2959 Oct 09 01:05	0° R		max. Earth dist.	2960 Sep 09 00:58	23° P 05'04	1.37004 AU
	2959 Oct 30 01:44	0° X		evening rise	2960 Sep 12 20:34	0° Q 08'35	
evening max el	2959 Nov 06 02:59	7° X 55'18	24°26'27		2960 Sep 12 18:40	0° Q	
retrograde	2959 Nov 17 11:08	14° X 32'59		desc. node	2960 Sep 23 22:15	18° Q 53'11	
evening set	2959 Nov 22 21:27	12° X 16'57			2960 Oct 01 06:26	0° R	
asc. node	2959 Nov 27 08:07	7° X 14'26		evening max el	2960 Oct 18 15:12	21° R 36'36	25°39'27
min. Earth dist.	2959 Nov 27 13:38	6° X 56'06	0.67622 AU	retrograde	2960 Oct 30 21:22	28° R 37'37	
inferior conj	2959 Nov 28 08:37	5° X 52'32	0°20'58	evening set	2960 Nov 05 21:50	26° R 07'10	
minimum elong	2959 Nov 28 08:07	5° X 54'14	0°20'44	min. Earth dist.	2960 Nov 10 06:21	21° R 21'28	0.67002 AU
morning rise	2959 Dec 03 18:49	29° R 49'46		inferior conj	2960 Nov 11 12:18	19° R 46'01	-0°35'08
	2959 Dec 03 13:20	30° R R		minimum elong	2960 Nov 11 13:13	19° R 43'06	0°34'44
direct	2959 Dec 07 13:31	28° R 27'58		asc. node	2960 Nov 13 05:10	17° R 38'44	
	2959 Dec 11 21:18	0° X		morning rise	2960 Nov 17 04:53	13° R 51'33	
morning max el	2959 Dec 15 07:00	2° X 52'56	20°12'04	direct	2960 Nov 20 12:09	12° R 48'45	
desc. node	2960 Jan 04 00:29	29° X 47'21		morning max el	2960 Nov 27 12:44	16° R 44'20	19°12'09
	2960 Jan 04 03:50	0° Z			2960 Dec 07 16:42	0° X	
morning set	2960 Jan 11 17:06	11° Z 32'42		morning set	2960 Dec 20 19:21	20° X 06'07	
max. Earth dist.	2960 Jan 22 02:31	27° Z 53'08	1.43737 AU	desc. node	2960 Dec 20 21:31	20° X 14'31	
	2960 Jan 23 10:06	0° \approx			2960 Dec 27 03:50	0° Z	
				max. Earth dist.	2961 Jan 03 17:53	11° Z 53'41	1.44828 AU
superior conj	2960 Jan 27 21:36	7° \approx 17'24	-2°01'26				
minimum elong	2960 Jan 27 17:21	6° \approx 59'54	2°01'16	superior conj	2961 Jan 06 12:56	16° Z 18'46	-1°38'06
evening rise	2960 Feb 09 16:37	28° \approx 57'03		minimum elong	2961 Jan 06 04:08	15° Z 43'54	1°37'18
	2960 Feb 10 07:08	0° X			2961 Jan 15 01:44	0° \approx	
asc. node	2960 Feb 23 07:25	21° X 26'00		evening rise	2961 Jan 21 03:56	9° \approx 58'15	
evening max el	2960 Feb 27 09:02	26° X 22'34	18°09'53		2961 Feb 02 11:52	0° X	
retrograde	2960 Mar 04 19:51	29° X 46'19		asc. node	2961 Feb 09 04:27	9° X 01'16	
evening set	2960 Mar 07 16:13	29° X 05'09		evening max el	2961 Feb 09 21:15	9° X 45'31	18°29'12
inferior conj	2960 Mar 13 21:17	23° X 52'15	3°37'44	retrograde	2961 Feb 16 09:58	13° X 20'18	
minimum elong	2960 Mar 13 22:08	23° X 50'01	3°37'41	evening set	2961 Feb 19 11:56	12° X 27'31	

inferior conj	2961 Feb 25 07:56	6° X 55'54	3°38'25	retrograde	2962 Jan 31 05:23	27° \approx 10'14	
minimum elong	2961 Feb 25 07:07	6° X 58'19	3°38'23	evening set	2962 Feb 03 13:48	26° \approx 04'57	
min. Earth dist.	2961 Feb 27 11:10	4° X 25'41	0.64501 AU	inferior conj	2962 Feb 09 03:44	20° \approx 16'54	3°23'56
morning rise	2961 Mar 03 01:43	0° X 46'50		minimum elong	2962 Feb 09 01:48	20° \approx 23'05	3°23'39
	2961 Mar 04 01:49	30° R \approx		min. Earth dist.	2962 Feb 10 15:39	18° \approx 22'54	0.65954 AU
direct	2961 Mar 09 21:05	27° \approx 57'06		morning rise	2962 Feb 14 13:29	14° \approx 04'21	
	2961 Mar 16 07:05	0° X		direct	2962 Feb 20 23:55	11° \approx 14'42	
desc. node	2961 Mar 18 20:40	1° X 45'17		desc. node	2962 Mar 05 17:43	18° \approx 44'36	
morning max el	2961 Mar 23 10:13	5° X 49'28	27°22'43	morning max el	2962 Mar 05 20:10	18° \approx 50'47	26°26'15
	2961 Apr 10 21:05	0° Y			2962 Mar 15 07:13	0° X	
morning set	2961 Apr 27 17:05	29° Y 30'59			2962 Apr 03 21:28	0° Y	
	2961 Apr 27 23:00	0° B		morning set	2962 Apr 10 21:45	12° Y 39'14	
max. Earth dist.	2961 May 02 11:54	9° B 08'45	1.33519 AU	max. Earth dist.	2962 Apr 15 00:21	20° Y 33'45	1.34862 AU
superior conj	2961 May 05 19:21	16° B 04'49	-0°24'26	superior conj	2962 Apr 19 17:43	0° B 04'24	-0°52'57
minimum elong	2961 May 05 20:36	16° B 11'23	0°24'10	minimum elong	2962 Apr 19 20:28	0° B 18'32	0°52'27
asc. node	2961 May 08 03:46	21° B 05'18			2962 Apr 19 16:51	0° B	
	2961 May 12 07:59	0° II		asc. node	2962 Apr 25 00:49	11° B 05'06	
evening rise	2961 May 13 00:53	1° II 29'12		evening rise	2962 Apr 27 09:36	16° B 00'25	
	2961 May 29 04:10	0° E			2962 May 04 12:41	0° II	
evening max el	2961 Jun 03 06:53	5° E 51'30	22°14'43	evening max el	2962 May 16 07:10	16° II 42'22	20°47'44
desc. node	2961 Jun 14 19:53	12° E 10'42		retrograde	2962 May 27 17:33	22° II 17'01	
retrograde	2961 Jun 16 04:24	12° E 14'55		evening set	2962 May 29 20:05	22° II 06'24	
evening set	2961 Jun 19 02:05	11° E 56'13		desc. node	2962 Jun 01 16:54	21° II 20'30	
min. Earth dist.	2961 Jun 27 12:57	8° E 17'59	0.55095 AU	inferior conj	2962 Jun 08 03:18	18° II 08'49	-1°52'28
inferior conj	2961 Jun 28 09:44	7° E 48'43	-3°40'12	minimum elong	2962 Jun 07 22:02	18° II 16'20	1°50'35
minimum elong	2961 Jun 28 01:31	8° E 00'18	3°38'00	min. Earth dist.	2962 Jun 09 01:11	17° II 37'35	0.54910 AU
morning rise	2961 Jul 07 02:50	3° E 57'31		morning rise	2962 Jun 16 23:33	14° II 03'41	
direct	2961 Jul 10 04:03	3° E 36'39		direct	2962 Jun 20 13:22	13° II 36'08	
morning max el	2961 Jul 21 20:25	9° E 03'16	21°20'21	morning max el	2962 Jul 03 16:20	19° II 54'25	22°58'28
asc. node	2961 Aug 04 03:01	27° E 36'21			2962 Jul 12 02:59	0° E	
	2961 Aug 05 10:01	0° O		asc. node	2962 Jul 22 00:05	16° E 56'23	
morning set	2961 Aug 10 23:23	11° O 04'14		morning set	2962 Jul 26 10:22	25° E 57'32	
					2962 Jul 28 08:07	0° O	
superior conj	2961 Aug 18 07:40	26° O 26'40	1°43'18	superior conj	2962 Aug 02 12:26	11° O 06'45	1°35'27
minimum elong	2961 Aug 18 06:43	26° O 21'45	1°43'16	minimum elong	2962 Aug 02 10:32	10° O 56'36	1°35'17
	2961 Aug 20 01:04	0° P		max. Earth dist.	2962 Aug 05 07:24	17° O 01'00	1.33842 AU
max. Earth dist.	2961 Aug 22 11:46	4° P 56'55	1.35236 AU	evening rise	2962 Aug 10 05:44	27° O 03'41	
evening rise	2961 Aug 26 18:10	13° P 15'43			2962 Aug 11 17:47	0° P	
	2961 Sep 05 03:26	0° A		desc. node	2962 Aug 28 16:16	28° P 53'47	
desc. node	2961 Sep 10 19:14	9° A 05'19			2962 Aug 29 10:17	0° A	
	2961 Sep 26 04:48	0° M		evening max el	2962 Sep 13 15:33	18° A 41'47	27°16'04
evening max el	2961 Oct 01 03:26	5° M 14'48	26°38'26	retrograde	2962 Sep 27 02:04	26° A 00'23	
retrograde	2961 Oct 14 02:28	12° M 29'13		evening set	2962 Oct 04 01:56	23° A 17'54	
evening set	2961 Oct 20 16:08	9° M 48'51		min. Earth dist.	2962 Oct 07 21:01	19° A 43'44	0.64718 AU
min. Earth dist.	2961 Oct 24 17:32	5° M 39'18	0.66036 AU	inferior conj	2962 Oct 10 02:56	17° A 16'39	-2°33'56
inferior conj	2961 Oct 26 11:09	3° M 35'24	-1°34'07	minimum elong	2962 Oct 10 07:09	17° A 05'10	2°32'22
minimum elong	2961 Oct 26 13:42	3° M 27'46	1°33'02	morning rise	2962 Oct 16 13:25	11° A 47'10	
	2961 Oct 29 16:56	30° R A		asc. node	2962 Oct 17 23:17	11° A 18'58	
asc. node	2961 Oct 31 02:14	28° A 47'23		direct	2962 Oct 19 04:22	11° A 11'14	
morning rise	2961 Nov 01 11:56	27° A 51'57		morning max el	2962 Oct 25 16:18	14° A 38'42	18°00'35
direct	2961 Nov 04 09:49	27° A 04'32			2962 Nov 05 13:10	0° M	
	2961 Nov 10 07:28	0° M		morning set	2962 Nov 12 06:50	11° M 14'18	
morning max el	2961 Nov 11 00:41	0° M 41'27	18°27'59		2962 Nov 23 15:50	0° J	
morning set	2961 Nov 30 22:28	29° M 56'56		desc. node	2962 Nov 24 15:34	1° J 35'43	
	2961 Nov 30 23:14	0° J					
desc. node	2961 Dec 07 18:32	10° J 51'46		superior conj	2962 Nov 26 00:34	3° J 48'09	-0°09'21
superior conj	2961 Dec 16 14:53	24° J 49'17	-0°57'29	minimum elong	2962 Nov 25 23:26	3° J 43'35	0°09'12
minimum elong	2961 Dec 16 07:44	24° J 21'12	0°56'34	behind sun begin	2962 Nov 25 14:41	3° J 08'33	
max. Earth dist.	2961 Dec 17 12:25	26° J 13'46	1.45205 AU	behind sun end	2962 Nov 26 08:10	4° J 18'35	
	2961 Dec 19 22:06	0° Z		max. Earth dist.	2962 Nov 30 07:07	10° J 35'48	1.44844 AU
evening rise	2962 Jan 01 15:52	20° Z 02'15		evening rise	2962 Dec 12 08:08	29° J 21'45	
	2962 Jan 07 23:10	0° \approx			2962 Dec 12 18:03	0° Z	
greatest brilliancy	2962 Jan 11 09:41	5° \approx 23'29	-0.8m	greatest brilliancy	2962 Dec 26 11:47	20° Z 52'15	-0.6m
evening max el	2962 Jan 24 06:51	23° \approx 13'31	19°06'15		2963 Jan 01 22:03	0° \approx	
asc. node	2962 Jan 27 01:30	25° \approx 38'35		evening max el	2963 Jan 07 12:03	6° \approx 43'55	19°59'17

asc. node	2963 Jan 13 22:33	11°  03'22		desc. node	2963 Nov 11 12:37	22°  22'53	
retrograde	2963 Jan 15 03:08	11°  11'09		max. Earth dist.	2963 Nov 12 23:41	24°  44'31	1.43793 AU
evening set	2963 Jan 18 19:26	9°  52'08			2963 Nov 16 06:46	0° 	
inferior conj	2963 Jan 24 05:44	3°  50'12	2°57'53	evening rise	2963 Nov 21 17:04	8°  29'18	
minimum elong	2963 Jan 24 03:14	3°  58'33	2°57'18		2963 Dec 06 00:35	0° 	
min. Earth dist.	2963 Jan 25 03:34	2°  37'04	0.66997 AU	evening max el	2963 Dec 21 11:51	20°  15'51	21°05'33
	2963 Jan 27 04:46	30°  R 		retrograde	2963 Dec 30 00:54	25°  319'37	
morning rise	2963 Jan 29 10:49	27°  336'36		asc. node	2963 Dec 31 19:35	25°  302'11	
direct	2963 Feb 04 08:33	24°  358'22		evening set	2964 Jan 03 02:53	23°  345'28	
	2963 Feb 14 01:36	0° 		inferior conj	2964 Jan 08 11:29	17°  332'34	2°22'45
morning max el	2963 Feb 16 04:59	2°  03'03	25°09'11	minimum elong	2964 Jan 08 08:58	17°  341'11	2°21'57
desc. node	2963 Feb 20 14:46	6°  53'57		min. Earth dist.	2964 Jan 08 20:42	17°  300'47	0.67641 AU
	2963 Mar 09 09:43	0° 		morning rise	2964 Jan 13 14:53	11°  319'44	
morning set	2963 Mar 24 09:43	24°  H54'32		direct	2964 Jan 18 22:01	9°  300'28	
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max. Earth dist.	2963 Mar 28 01:28	1°  Y35'42	1.36645 AU	desc. node	2964 Feb 07 11:49	25°  353'15	
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superior conj	2963 Apr 03 06:43	13°  Y32'05	-1°20'27		2964 Mar 01 08:57	0° 	
minimum elong	2963 Apr 03 10:45	13°  Y52'01	1°19'50	morning set	2964 Mar 04 22:56	6°  H00'30	
	2963 Apr 11 11:10	0°  8		max. Earth dist.	2964 Mar 08 20:41	12°  H46'51	1.38742 AU
evening rise	2963 Apr 11 13:33	0°  812'02					
asc. node	2963 Apr 11 21:51	0°  853'49		superior conj	2964 Mar 16 06:40	26°  H18'19	-1°44'24
evening max el	2963 Apr 28 19:31	28°  812'28	19°37'42	minimum elong	2964 Mar 16 11:09	26°  H39'27	1°43'55
	2963 Apr 30 21:01	0°  II			2964 Mar 18 05:27	0°  Y	
retrograde	2963 May 08 11:56	2°  II53'55		evening rise	2964 Mar 25 10:05	13°  Y57'01	
evening set	2963 May 10 11:56	2°  II42'48		asc. node	2964 Mar 28 18:54	20°  Y26'38	
	2963 May 17 00:33	30°  R 			2964 Apr 03 02:21	0° 	
inferior conj	2963 May 19 04:58	28°  839'28	0°06'33	evening max el	2964 Apr 10 18:41	10°  821'48	18°47'27
minimum elong	2963 May 19 05:15	28°  839'01	0°06'27	retrograde	2964 Apr 18 22:47	14°  821'06	
transit middle	2963 May 19 05:15	28°  839'01	0°06'27	evening set	2964 Apr 21 03:55	14°  804'40	
transit begin	2963 May 19 01:40	28°  844'40		inferior conj	2964 Apr 29 01:16	9°  844'18	1°45'48
transit end	2963 May 19 08:51	28°  833'21		minimum elong	2964 Apr 29 04:47	9°  837'51	1°44'42
desc. node	2963 May 19 13:57	28°  825'17		min. Earth dist.	2964 May 02 07:45	7°  821'35	0.57274 AU
min. Earth dist.	2963 May 21 15:12	27°  807'59	0.55695 AU	desc. node	2964 May 05 10:58	5°  823'07	
morning rise	2963 May 27 19:59	24°  804'01		morning rise	2964 May 07 02:30	4°  834'24	
direct	2963 Jun 01 06:55	23°  819'35		direct	2964 May 12 14:02	3°  821'17	
	2963 Jun 14 21:51	0°  II		morning max el	2964 May 26 22:07	10°  851'13	26°12'23
morning max el	2963 Jun 15 06:49	0°  II21'06	24°40'51		2964 Jun 10 15:02	0°  II	
	2963 Jul 05 13:36	0° 		morning set	2964 Jun 24 09:15	25°  II44'22	
asc. node	2963 Jul 08 21:08	6°  36'45		asc. node	2964 Jun 24 18:11	26°  II31'34	
morning set	2963 Jul 10 22:11	10°  352'32			2964 Jun 26 09:10	0° 	
superior conj	2963 Jul 17 21:30	25°  358'08	1°22'17	superior conj	2964 Jul 01 08:47	10°  354'15	1°04'38
minimum elong	2963 Jul 17 19:09	25°  345'24	1°21'58	minimum elong	2964 Jul 01 06:30	10°  341'41	1°04'14
max. Earth dist.	2963 Jul 19 11:35	29°  324'49	1.32863 AU	max. Earth dist.	2964 Jul 01 21:33	12°  304'28	1.32290 AU
	2963 Jul 19 18:06	0°  Omega		evening rise	2964 Jul 08 07:50	25°  356'01	
evening rise	2963 Jul 25 03:19	11°  Omega20'14			2964 Jul 10 07:13	0°  Omega	
	2963 Aug 03 23:40	0°  Omega			2964 Jul 27 13:27	0°  Omega	
desc. node	2963 Aug 15 13:17	18°  Omega07'41		desc. node	2964 Aug 01 10:18	6°  Omega32'49	
	2963 Aug 25 07:32	0°  Omega		evening max el	2964 Aug 08 07:46	14°  Omega09'54	27°03'00
evening max el	2963 Aug 27 01:53	1°  Omega44'38	27°25'49	retrograde	2964 Aug 22 04:59	21°  Omega22'34	
retrograde	2963 Sep 09 19:15	9°  Omega01'11		evening set	2964 Aug 29 06:06	19°  Omega10'10	
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min. Earth dist.	2963 Sep 20 14:55	3°  Omega24'27	0.63059 AU	inferior conj	2964 Sep 05 01:50	13°  Omega45'19	-4°21'54
inferior conj	2963 Sep 23 08:55	0°  Omega42'44	-3°31'34	minimum elong	2964 Sep 05 07:16	13°  Omega33'32	4°20'47
minimum elong	2963 Sep 23 14:21	0°  Omega29'25	3°29'56	morning rise	2964 Sep 12 10:10	8°  Omega53'46	
	2963 Sep 24 02:26	30°  R 		direct	2964 Sep 14 19:33	8°  Omega30'38	
morning rise	2963 Sep 30 06:08	25°  Omega30'29		asc. node	2964 Sep 20 17:23	10°  Omega57'54	
direct	2963 Oct 02 16:49	25°  Omega02'27		morning max el	2964 Sep 21 22:35	12°  Omega03'30	17°59'50
asc. node	2963 Oct 04 20:20	25°  Omega24'35			2964 Oct 03 22:16	0°  Omega	
morning max el	2963 Oct 09 08:38	28°  Omega28'34	17°50'52	morning set	2964 Oct 07 18:08	7°  Omega00'36	
	2963 Oct 10 18:41	0°  Omega					
morning set	2963 Oct 25 15:33	23°  Omega42'01		superior conj	2964 Oct 17 21:40	25°  Omega24'47	1°08'27
	2963 Oct 29 05:45	0°  Omega		minimum elong	2964 Oct 18 02:01	25°  Omega43'56	1°07'56
					2964 Oct 20 12:52	0°  Omega	
superior conj	2963 Nov 06 09:43	13°  Omega57'14	0°34'45	max. Earth dist.	2964 Oct 25 11:52	8°  Omega23'10	1.42179 AU
minimum elong	2963 Nov 06 13:01	14°  Omega11'03	0°34'17	desc. node	2964 Oct 28 09:38	13°  Omega09'37	

































































































































evening rise	2964 Oct 31 11:12	18° \mathbb{M} 05'13		evening rise	2965 Oct 12 02:14	28° \mathbb{L} 39'18	
	2964 Nov 08 03:28	0° \mathbb{A}			2965 Oct 12 21:42	0° \mathbb{M}	
	2964 Nov 29 18:53	0° \mathbb{B}		desc. node	2965 Oct 15 06:39	3° \mathbb{M} 52'50	
evening max el	2964 Dec 03 06:15	3° \mathbb{B} 48'51	22°21'13		2965 Nov 01 16:21	0° \mathbb{A}	
retrograde	2964 Dec 12 20:59	9° \mathbb{B} 31'51		evening max el	2965 Nov 15 20:33	17° \mathbb{A} 24'45	23°41'02
evening set	2964 Dec 17 10:26	7° \mathbb{B} 41'22		retrograde	2965 Nov 26 14:07	23° \mathbb{A} 44'54	
asc. node	2964 Dec 17 16:37	7° \mathbb{B} 28'20		evening set	2965 Dec 01 16:31	21° \mathbb{A} 37'47	
inferior conj	2964 Dec 22 18:56	1° \mathbb{B} 20'47	1°40'08	asc. node	2965 Dec 04 13:38	18° \mathbb{A} 34'38	
minimum elong	2964 Dec 22 16:53	1° \mathbb{B} 27'54	1°39'22	min. Earth dist.	2965 Dec 06 13:21	15° \mathbb{A} 57'40	0.67823 AU
min. Earth dist.	2964 Dec 22 16:43	1° \mathbb{B} 28'29	0.67909 AU	inferior conj	2965 Dec 07 02:20	15° \mathbb{A} 13'21	0°51'23
	2964 Dec 23 18:23	30° \mathbb{R} \mathbb{A}		minimum elong	2965 Dec 07 01:09	15° \mathbb{A} 17'24	0°50'53
morning rise	2964 Dec 27 23:13	25° \mathbb{A} 10'25		morning rise	2965 Dec 12 09:46	9° \mathbb{A} 07'15	
direct	2965 Jan 01 15:23	23° \mathbb{A} 13'46		direct	2965 Dec 16 11:49	7° \mathbb{A} 33'26	
morning max el	2965 Jan 11 00:47	28° \mathbb{A} 45'19	22°13'55	morning max el	2965 Dec 24 18:21	12° \mathbb{A} 20'22	20°53'10
	2965 Jan 12 05:31	0° \mathbb{B}			2966 Jan 07 11:57	0° \mathbb{B}	
desc. node	2965 Jan 24 08:51	15° \mathbb{B} 27'52		desc. node	2966 Jan 11 05:54	5° \mathbb{B} 28'21	
	2965 Feb 03 07:03	0° \approx		morning set	2966 Jan 23 14:04	24° \mathbb{B} 14'12	
morning set	2965 Feb 13 07:53	15° \approx 43'38			2966 Jan 27 05:57	0° \approx	
max. Earth dist.	2965 Feb 18 18:00	24° \approx 40'53	1.40901 AU	max. Earth dist.	2966 Jan 31 22:01	7° \approx 29'58	1.42830 AU
	2965 Feb 21 20:55	0° \mathbb{H}					
superior conj	2965 Feb 26 12:46	8° \mathbb{H} 10'30	-2°01'12	superior conj	2966 Feb 07 19:55	18° \approx 57'33	-2°06'04
minimum elong	2965 Feb 26 15:54	8° \mathbb{H} 24'32	2°01'02	minimum elong	2966 Feb 07 19:00	18° \approx 53'39	2°06'04
evening rise	2965 Mar 08 19:50	27° \mathbb{H} 06'26			2966 Feb 14 05:43	0° \mathbb{H}	
	2965 Mar 10 09:01	0° \mathbb{Y}		evening rise	2966 Feb 19 14:54	9° \mathbb{H} 32'08	
asc. node	2965 Mar 15 15:56	9° \mathbb{Y} 37'02		asc. node	2966 Mar 02 12:56	28° \mathbb{H} 18'04	
evening max el	2965 Mar 25 01:29	23° \mathbb{Y} 02'04	18°17'23		2966 Mar 03 15:59	0° \mathbb{Y}	
retrograde	2965 Apr 01 04:49	26° \mathbb{Y} 35'42		evening max el	2966 Mar 08 12:43	6° \mathbb{Y} 05'01	18°07'04
evening set	2965 Apr 03 16:10	26° \mathbb{Y} 11'00		retrograde	2966 Mar 15 02:45	9° \mathbb{Y} 28'32	
inferior conj	2965 Apr 10 18:58	21° \mathbb{Y} 30'00	2°52'30	evening set	2966 Mar 17 19:50	8° \mathbb{Y} 53'50	
minimum elong	2965 Apr 10 22:31	21° \mathbb{Y} 22'22	2°51'43	inferior conj	2966 Mar 24 07:44	3° \mathbb{Y} 52'24	3°28'24
min. Earth dist.	2965 Apr 14 05:07	18° \mathbb{Y} 35'11	0.59314 AU	minimum elong	2966 Mar 24 09:40	3° \mathbb{Y} 47'35	3°28'12
morning rise	2965 Apr 18 02:16	15° \mathbb{Y} 52'00		min. Earth dist.	2966 Mar 27 09:57	0° \mathbb{Y} 50'07	0.61477 AU
desc. node	2965 Apr 22 08:00	14° \mathbb{Y} 15'04			2966 Mar 28 07:48	30° \mathbb{R} \mathbb{H}	
direct	2965 Apr 24 10:07	14° \mathbb{Y} 03'14		morning rise	2966 Mar 30 21:49	27° \mathbb{H} 56'26	
morning max el	2965 May 08 18:50	21° \mathbb{Y} 50'24	27°18'19	direct	2966 Apr 06 17:23	25° \mathbb{H} 34'28	
	2965 May 15 22:30	0° \mathbb{B}		desc. node	2966 Apr 09 05:02	25° \mathbb{H} 52'03	
	2965 Jun 03 13:01	0° \mathbb{I}			2966 Apr 16 23:42	0° \mathbb{Y}	
morning set	2965 Jun 08 17:54	10° \mathbb{I} 27'31		morning max el	2966 Apr 20 21:56	3° \mathbb{Y} 30'54	27°48'57
asc. node	2965 Jun 11 15:13	16° \mathbb{I} 35'30			2966 May 10 11:54	0° \mathbb{B}	
				morning set	2966 May 23 22:13	24° \mathbb{B} 55'16	
superior conj	2965 Jun 15 20:32	25° \mathbb{I} 49'06	0°43'13		2966 May 26 08:49	0° \mathbb{I}	
minimum elong	2965 Jun 15 18:46	25° \mathbb{I} 39'20	0°42'52	asc. node	2966 May 29 12:14	6° \mathbb{I} 43'42	
max. Earth dist.	2965 Jun 15 09:40	24° \mathbb{I} 49'18	1.32104 AU	max. Earth dist.	2966 May 29 19:55	7° \mathbb{I} 25'23	1.32315 AU
	2965 Jun 17 18:05	0° \mathbb{B}					
evening rise	2965 Jun 22 16:48	10° \mathbb{B} 43'01		superior conj	2966 May 31 07:02	10° \mathbb{I} 36'43	0°18'42
	2965 Jul 02 13:41	0° \mathbb{L}		minimum elong	2966 May 31 06:11	10° \mathbb{I} 32'03	0°18'31
desc. node	2965 Jul 19 07:17	23° \mathbb{L} 49'28		evening rise	2966 Jun 07 04:06	25° \mathbb{I} 33'53	
evening max el	2965 Jul 21 06:41	25° \mathbb{L} 48'19	26°07'25		2966 Jun 09 06:51	0° \mathbb{B}	
	2965 Jul 26 11:43	0° \mathbb{M}			2966 Jun 26 23:33	0° \mathbb{L}	
retrograde	2965 Aug 04 06:13	2° \mathbb{M} 58'02		evening max el	2966 Jul 02 22:33	6° \mathbb{L} 41'28	24°45'19
evening set	2965 Aug 10 15:38	1° \mathbb{M} 18'43		desc. node	2966 Jul 06 04:18	9° \mathbb{L} 29'32	
	2965 Aug 12 22:16	30° \mathbb{R} \mathbb{L}		retrograde	2966 Jul 16 21:04	13° \mathbb{L} 44'58	
min. Earth dist.	2965 Aug 14 19:17	28° \mathbb{L} 42'59	0.59059 AU	evening set	2966 Jul 22 01:12	12° \mathbb{L} 44'22	
inferior conj	2965 Aug 18 02:09	26° \mathbb{L} 15'10	-4°56'27	min. Earth dist.	2966 Jul 27 09:50	9° \mathbb{L} 55'21	0.57110 AU
minimum elong	2965 Aug 18 05:19	26° \mathbb{L} 09'11	4°56'09	inferior conj	2966 Jul 30 06:50	8° \mathbb{L} 02'46	-5°02'16
morning rise	2965 Aug 25 21:11	21° \mathbb{L} 46'44		minimum elong	2966 Jul 30 05:02	8° \mathbb{L} 05'44	5°02'11
direct	2965 Aug 28 08:04	21° \mathbb{L} 26'21		morning rise	2966 Aug 07 11:29	3° \mathbb{L} 56'03	
morning max el	2965 Sep 05 07:04	25° \mathbb{L} 15'39	18°28'47	direct	2966 Aug 10 02:10	3° \mathbb{L} 36'53	
asc. node	2965 Sep 07 14:26	27° \mathbb{L} 45'18		morning max el	2966 Aug 19 06:49	7° \mathbb{L} 54'40	19°18'51
	2965 Sep 09 08:14	0° \mathbb{M}		asc. node	2966 Aug 25 11:28	15° \mathbb{L} 30'56	
morning set	2965 Sep 21 09:24	20° \mathbb{M} 55'46			2966 Sep 02 17:20	0° \mathbb{M}	
	2965 Sep 26 02:35	0° \mathbb{L}		morning set	2966 Sep 05 09:26	5° \mathbb{M} 16'02	
superior conj	2965 Sep 30 08:32	8° \mathbb{L} 00'14	1°30'32	superior conj	2966 Sep 13 12:38	21° \mathbb{M} 26'29	1°42'09
minimum elong	2965 Sep 30 11:49	8° \mathbb{L} 15'26	1°30'15	minimum elong	2966 Sep 13 14:09	21° \mathbb{M} 33'50	1°42'04
max. Earth dist.	2965 Oct 07 18:43	21° \mathbb{L} 19'39	1.40207 AU		2966 Sep 18 00:14	0° \mathbb{L}	
				max. Earth dist.	2966 Sep 19 22:29	3° \mathbb{L} 33'37	1.38136 AU

evening rise	2966 Sep 23 16:58	10° Ω 18'53		2967 Aug 25 12:49	0° Π	
desc. node	2966 Oct 02 03:39	24° Ω 27'52				
	2966 Oct 05 16:17	0° Π	superior conj	2967 Aug 28 05:10	5° Π 29'48	1°44'59
	2966 Oct 28 07:28	0° Σ	minimum elong	2967 Aug 28 05:00	5° Π 28'57	1°44'59
evening max el	2966 Oct 29 08:52	1° Σ 03'54	24°58'42	max. Earth dist.	2967 Sep 02 05:08	15° Π 25'58 1.36214 AU
retrograde	2966 Nov 10 03:14	7° Σ 53'38		evening rise	2967 Sep 06 04:39	22° Π 57'45
evening set	2966 Nov 15 19:30	5° Σ 31'00			2967 Sep 10 02:22	0° Ω
min. Earth dist.	2966 Nov 20 08:16	0° Σ 24'49	0.67395 AU	desc. node	2967 Sep 19 00:39	14° Ω 49'58
	2966 Nov 20 15:50	30° Σ			2967 Sep 29 09:42	0° Π
inferior conj	2966 Nov 21 07:54	29° Π 07'07	-0°02'23	evening max el	2967 Oct 11 21:08	14° Π 44'51 26°06'45
minimum elong	2966 Nov 21 07:57	29° Π 06'56	0°02'21	retrograde	2967 Oct 24 11:26	21° Π 52'58
transit middle	2966 Nov 21 07:57	29° Π 06'56	0°02'21	evening set	2967 Oct 30 17:33	19° Π 17'52
transit begin	2966 Nov 21 05:13	29° Π 15'57		min. Earth dist.	2967 Nov 03 23:03	14° Π 47'10 0.66630 AU
transit end	2966 Nov 21 10:41	28° Π 57'55		inferior conj	2967 Nov 05 09:47	12° Π 59'16 -0°59'54
asc. node	2966 Nov 21 10:40	28° Π 57'59		minimum elong	2967 Nov 05 11:23	12° Π 54'19 0°59'13
morning rise	2966 Nov 26 20:34	23° Π 07'30		asc. node	2967 Nov 08 07:44	9° Π 34'37
direct	2966 Nov 30 10:03	21° Π 54'21		morning rise	2967 Nov 11 05:38	7° Π 08'50
morning max el	2966 Dec 07 19:41	26° Π 05'56	19°44'43	direct	2967 Nov 14 08:37	6° Π 13'01
	2966 Dec 11 06:41	0° Σ		morning max el	2967 Nov 21 04:14	9° Π 59'41 18°51'16
greatest brilliancy	2966 Dec 21 01:32	13° Σ 36'11	-0.7m		2967 Dec 05 14:23	0° Σ
desc. node	2966 Dec 29 02:57	25° Σ 47'06		morning set	2967 Dec 12 21:25	11° Σ 25'50
	2966 Dec 31 20:49	0° Ξ		desc. node	2967 Dec 15 23:58	16° Σ 18'42
morning set	2967 Jan 02 10:10	2° Ξ 24'01			2967 Dec 24 17:22	0° Ξ
max. Earth dist.	2967 Jan 14 09:06	21° Ξ 06'16	1.44277 AU	max. Earth dist.	2967 Dec 28 01:51	5° Ξ 15'56 1.45077 AU
superior conj	2967 Jan 19 01:01	28° Ξ 34'22	-1°53'57	superior conj	2967 Dec 29 08:29	7° Ξ 16'19 -1°22'34
minimum elong	2967 Jan 18 18:22	28° Ξ 07'32	1°53'32	minimum elong	2967 Dec 28 23:30	6° Ξ 41'01 1°21'36
	2967 Jan 19 22:12	0° \approx			2968 Jan 12 15:07	0° \approx
evening rise	2967 Feb 01 14:54	21° \approx 05'33		evening rise	2968 Jan 13 16:12	1° \approx 41'15
	2967 Feb 06 20:55	0° H			2968 Feb 01 01:32	0° H
asc. node	2967 Feb 17 09:57	16° H 20'45		evening max el	2968 Feb 03 12:52	2° H 48'56 18°42'59
evening max el	2967 Feb 20 01:24	19° H 22'56	18°15'54	asc. node	2968 Feb 04 07:00	3° H 33'15
retrograde	2967 Feb 26 12:07	22° H 50'02		retrograde	2968 Feb 10 04:46	6° H 31'29
evening set	2967 Mar 01 10:43	22° H 04'11		evening set	2968 Feb 13 09:23	5° H 33'28
inferior conj	2967 Mar 07 11:33	16° H 43'22	3°40'08	inferior conj	2968 Feb 19 02:30	29° \approx 54'53 3°33'53
minimum elong	2967 Mar 07 11:39	16° H 43'08	3°40'09	minimum elong	2968 Feb 19 01:08	29° \approx 59'03 3°33'45
min. Earth dist.	2967 Mar 09 23:54	13° H 56'24	0.63486 AU		2968 Feb 19 00:49	30° $\text{R}\approx$
morning rise	2967 Mar 13 11:39	10° H 37'41		min. Earth dist.	2968 Feb 20 23:11	27° \approx 39'03 0.65169 AU
direct	2967 Mar 20 09:33	7° H 53'38		morning rise	2968 Feb 24 16:26	23° \approx 44'13
desc. node	2967 Mar 27 02:05	10° H 01'27		direct	2968 Mar 02 08:48	20° \approx 52'45
morning max el	2967 Apr 03 05:37	15° H 50'39	27°42'11	desc. node	2968 Mar 12 23:09	26° \approx 08'15
	2967 Apr 14 20:45	0° Υ		morning max el	2968 Mar 15 15:16	28° \approx 39'32 27°01'49
	2967 May 03 04:14	0° B			2968 Mar 16 22:22	0° H
morning set	2967 May 07 19:54	9° B 00'14			2968 Apr 07 16:04	0° Υ
max. Earth dist.	2967 May 13 00:21	19° B 39'57	1.32948 AU	morning set	2968 Apr 20 07:52	22° Υ 32'06
					2968 Apr 24 02:49	0° B
superior conj	2967 May 15 14:32	25° B 11'21	-0°08'12	max. Earth dist.	2968 Apr 24 19:20	1° B 23'18 1.34035 AU
minimum elong	2967 May 15 14:56	25° B 13'31	0°08'08			
behind sun begin	2967 May 15 10:20	24° B 48'50		superior conj	2968 Apr 28 16:55	9° B 25'45 -0°36'31
behind sun end	2967 May 15 19:32	25° B 38'14		minimum elong	2968 Apr 28 18:48	9° B 35'36 0°36'08
asc. node	2967 May 16 09:16	26° B 52'11		asc. node	2968 May 02 06:18	16° B 56'17
	2967 May 17 20:03	0° Π		evening rise	2968 May 06 02:19	25° B 01'47
evening rise	2967 May 22 15:55	10° Π 22'29			2968 May 08 12:10	0° Π
	2967 Jun 01 18:52	0° E		evening max el	2968 May 26 06:36	27° Π 44'48 21°36'01
evening max el	2967 Jun 14 12:03	17° E 10'10	23°09'47		2968 May 28 20:19	0° E
desc. node	2967 Jun 23 01:17	22° E 58'27		retrograde	2968 Jun 07 14:27	3° E 48'19
retrograde	2967 Jun 27 23:22	23° E 53'34		desc. node	2968 Jun 08 22:20	3° E 44'16
evening set	2967 Jul 01 15:09	23° E 24'17		evening set	2968 Jun 10 01:52	3° E 34'27
min. Earth dist.	2967 Jul 08 21:32	20° E 07'33	0.55621 AU		2968 Jun 18 16:24	30° $\text{R}\Pi$
inferior conj	2967 Jul 10 15:54	19° E 05'40	-4°24'37	inferior conj	2968 Jun 19 11:26	29° Π 33'27 -2°58'12
minimum elong	2967 Jul 10 08:49	19° E 16'03	4°23'15	minimum elong	2968 Jun 19 03:46	29° Π 44'09 2°55'48
morning rise	2967 Jul 19 04:54	15° E 12'37		min. Earth dist.	2968 Jun 19 08:49	29° Π 37'07 0.54905 AU
direct	2967 Jul 22 01:29	14° E 53'01		morning rise	2968 Jun 28 06:39	25° Π 38'45
morning max el	2967 Aug 01 19:27	19° E 52'07	20°30'16	direct	2968 Jul 01 12:36	25° Π 15'43
	2967 Aug 09 21:36	0° Ω			2968 Jul 12 15:27	0° E
asc. node	2967 Aug 12 08:32	4° Ω 01'43		morning max el	2968 Jul 13 20:32	1° E 04'27 22°00'38
morning set	2967 Aug 20 15:26	19° Ω 54'01		asc. node	2968 Jul 29 05:35	23° E 06'13

	2968 Aug 01 18:04	0°♎		asc. node	2969 Jul 16 02:37	12°♊35'39	
morning set	2968 Aug 04 01:08	4°♎43'18		morning set	2969 Jul 19 12:39	19°♊38'01	
					2969 Jul 24 08:33	0°♎	
superior conj	2968 Aug 11 06:19	19°♎58'50	1°40'40	superior conj	2969 Jul 26 13:09	4°♎44'22	1°30'27
minimum elong	2968 Aug 11 04:54	19°♎51'23	1°40'35	minimum elong	2969 Jul 26 11:00	4°♎32'46	1°30'13
max. Earth dist.	2968 Aug 14 19:48	27°♎22'12	1.34601 AU	max. Earth dist.	2969 Jul 28 19:30	9°♎35'27	1.33379 AU
	2968 Aug 16 02:57	0°♎		evening rise	2969 Aug 03 00:58	20°♎24'48	
evening rise	2968 Aug 19 08:45	6°♎23'46			2969 Aug 07 23:43	0°♎	
	2968 Sep 01 18:20	0°♎		desc. node	2969 Aug 22 18:42	24°♎28'23	
desc. node	2968 Sep 04 21:40	4°♎53'05			2969 Aug 26 18:26	0°♎	
evening max el	2968 Sep 23 09:43	28°♎20'33	26°57'32	evening max el	2969 Sep 05 21:18	11°♎38'38	27°23'55
	2968 Sep 25 05:07	0°♎		retrograde	2969 Sep 19 10:48	18°♎56'22	
retrograde	2968 Oct 06 14:06	5°♎36'49		evening set	2969 Sep 26 13:47	16°♎16'00	
evening set	2968 Oct 13 08:35	2°♎54'44		min. Earth dist.	2969 Sep 30 06:42	12°♎56'11	0.64055 AU
	2968 Oct 16 09:43	30°♎		inferior conj	2969 Oct 02 17:56	10°♎21'38	-2°58'53
min. Earth dist.	2968 Oct 17 07:18	29°♎00'19	0.65519 AU	minimum elong	2969 Oct 02 22:45	10°♎09'03	2°57'14
inferior conj	2968 Oct 19 05:58	26°♎46'09	-1°59'31	morning rise	2969 Oct 09 08:54	4°♎59'15	
minimum elong	2968 Oct 19 09:15	26°♎36'43	1°58'12	direct	2969 Oct 11 21:47	4°♎27'00	
morning rise	2968 Oct 25 10:41	21°♎08'02		asc. node	2969 Oct 12 01:52	4°♎27'09	
asc. node	2968 Oct 25 04:49	21°♎15'41		morning max el	2969 Oct 18 10:22	7°♎52'31	17°54'17
direct	2968 Oct 28 05:25	20°♎25'48			2969 Nov 02 04:16	0°♎	
morning max el	2968 Nov 03 18:03	23°♎57'27	18°14'13	morning set	2969 Nov 04 08:49	3°♎44'55	
	2968 Nov 08 16:15	0°♎					
morning set	2968 Nov 22 13:20	21°♎55'16		superior conj	2969 Nov 17 05:32	25°♎17'04	0°10'23
	2968 Nov 27 12:38	0°♎		minimum elong	2969 Nov 17 06:41	25°♎21'48	0°10'14
desc. node	2968 Dec 01 20:59	6°♎59'17		behind sun begin	2969 Nov 16 22:51	24°♎49'54	
				behind sun end	2969 Nov 17 14:32	25°♎53'39	
superior conj	2968 Dec 07 11:05	15°♎51'36	-0°37'13	desc. node	2969 Nov 18 18:00	27°♎44'54	
minimum elong	2968 Dec 07 06:19	15°♎32'49	0°36'35		2969 Nov 20 03:33	0°♎	
max. Earth dist.	2968 Dec 09 21:24	19°♎41'14	1.45142 AU	max. Earth dist.	2969 Nov 22 15:54	4°♎01'05	1.44474 AU
	2968 Dec 16 11:26	0°♎		evening rise	2969 Dec 03 06:06	20°♎33'45	
evening rise	2968 Dec 23 18:53	11°♎24'14			2969 Dec 09 10:25	0°♎	
greatest brilliancy	2969 Jan 04 15:02	29°♎44'21	-0.7m	evening max el	2969 Dec 30 23:43	29°♎49'05	20°25'59
	2969 Jan 04 19:09	0°♎			2969 Dec 31 04:00	0°♎	
evening max el	2969 Jan 16 20:51	16°♎18'40	19°27'00	retrograde	2970 Jan 07 23:32	4°♎31'29	
asc. node	2969 Jan 21 04:04	19°♎41'56		asc. node	2970 Jan 08 01:08	4°♎31'27	
retrograde	2969 Jan 24 01:29	20°♎27'04		evening set	2970 Jan 11 19:46	3°♎06'01	
evening set	2969 Jan 27 13:09	19°♎15'54			2970 Jan 14 21:49	30°♎	
inferior conj	2969 Feb 02 01:16	13°♎21'34	3°14'09	inferior conj	2970 Jan 17 05:06	26°♎58'46	2°43'59
minimum elong	2969 Feb 01 23:01	13°♎28'52	3°13'43	minimum elong	2970 Jan 17 02:32	27°♎07'27	2°43'17
min. Earth dist.	2969 Feb 03 06:55	11°♎44'58	0.66449 AU	min. Earth dist.	2970 Jan 17 21:19	26°♎03'37	0.67316 AU
morning rise	2969 Feb 07 08:40	7°♎08'36		morning rise	2970 Jan 22 09:08	20°♎45'16	
direct	2969 Feb 13 14:04	4°♎22'50		direct	2970 Jan 28 00:38	18°♎14'44	
morning max el	2969 Feb 26 00:47	11°♎46'32	25°55'28	morning max el	2970 Feb 08 09:24	25°♎01'51	24°32'46
desc. node	2969 Feb 27 20:12	13°♎40'19			2970 Feb 12 21:29	0°♎	
	2969 Mar 12 15:14	0°♎		desc. node	2970 Feb 14 17:14	2°♎12'37	
	2969 Mar 31 07:39	0°♎			2970 Mar 06 03:09	0°♎	
morning set	2969 Apr 03 06:03	5°♎19'24		morning set	2970 Mar 16 09:07	17°♎07'05	
max. Earth dist.	2969 Apr 07 02:56	12°♎37'00	1.35579 AU	max. Earth dist.	2970 Mar 20 00:55	23°♎39'23	1.37509 AU
					2970 Mar 23 11:12	0°♎	
superior conj	2969 Apr 12 11:41	23°♎12'48	-1°04'51	superior conj	2970 Mar 26 19:36	6°♎23'42	-1°31'14
minimum elong	2969 Apr 12 15:02	23°♎29'45	1°04'16	minimum elong	2970 Mar 26 23:59	6°♎44'55	1°30'38
	2969 Apr 15 19:26	0°♎		evening rise	2970 Apr 04 10:26	23°♎26'58	
asc. node	2969 Apr 19 03:21	6°♎52'01		asc. node	2970 Apr 06 00:25	26°♎34'46	
evening rise	2969 Apr 20 09:18	9°♎25'41			2970 Apr 07 18:32	0°♎	
	2969 May 01 12:10	0°♎		evening max el	2970 Apr 21 05:00	20°♎38'03	19°13'51
evening max el	2969 May 08 11:51	8°♎50'56	20°15'30	retrograde	2970 Apr 30 05:06	25°♎00'20	
retrograde	2969 May 19 04:09	14°♎02'27		evening set	2970 May 02 06:38	24°♎47'31	
evening set	2969 May 21 04:15	13°♎52'15		inferior conj	2970 May 10 15:28	20°♎37'35	0°52'16
desc. node	2969 May 26 19:23	11°♎50'44		minimum elong	2970 May 10 17:33	20°♎34'04	0°51'31
inferior conj	2969 May 30 06:38	9°♎53'40	-1°01'12	min. Earth dist.	2970 May 13 12:20	18°♎42'37	0.56280 AU
minimum elong	2969 May 30 03:46	9°♎57'55	1°00'08	desc. node	2970 May 13 16:24	18°♎36'03	
min. Earth dist.	2969 May 31 21:20	8°♎56'42	0.55139 AU	morning rise	2970 May 19 01:25	15°♎46'58	
morning rise	2969 Jun 08 01:54	5°♎37'31		direct	2970 May 23 22:30	14°♎51'56	
direct	2969 Jun 11 23:51	5°♎04'20		morning max el	2970 Jun 07 03:40	22°♎07'35	25°22'08
morning max el	2969 Jun 25 13:17	11°♎41'41	23°42'21				
	2969 Jul 09 07:48	0°♎					

	2970 Jun 14 02:09	0°♂			2971 May 16 17:46	0°♂	
	2970 Jul 01 19:55	0°♂	morning max el		2971 May 19 20:55	2°♂47'49	26°44'19
asc. node	2970 Jul 02 23:39	2°♂23'22			2971 Jun 08 11:02	0°♂	
morning set	2970 Jul 04 00:23	4°♂33'10	morning set		2971 Jun 18 10:37	19°♂22'09	
			asc. node		2971 Jun 19 20:41	22°♂22'46	
					2971 Jun 23 08:57	0°♂	
superior conj	2970 Jul 10 23:25	19°♂39'21	1°15'18				
minimum elong	2970 Jul 10 21:02	19°♂26'22	1°14'57				
max. Earth dist.	2970 Jul 12 02:32	22°♂07'35	1.32566 AU	superior conj	2971 Jun 25 11:06	4°♂36'02	0°56'00
	2970 Jul 15 18:13	0°♂		minimum elong	2971 Jun 25 08:59	4°♂24'21	0°55'36
evening rise	2970 Jul 18 01:50	4°♂51'05		max. Earth dist.	2971 Jun 25 13:40	4°♂50'10	1.32157 AU
	2970 Jul 31 15:24	0°♂		evening rise	2971 Jul 02 08:29	19°♂32'42	
desc. node	2970 Aug 09 15:43	13°♂24'20			2971 Jul 07 12:26	0°♂	
evening max el	2970 Aug 19 05:52	24°♂26'50	27°20'07		2971 Jul 26 08:52	0°♂	
	2970 Aug 26 16:56	0°♂		desc. node	2971 Jul 27 12:43	1°♂23'37	
retrograde	2970 Sep 02 01:10	1°♂42'28		evening max el	2971 Aug 01 08:55	6°♂32'54	26°43'12
	2970 Sep 08 01:09	30°♂♂		retrograde	2971 Aug 15 07:46	13°♂44'55	
evening set	2970 Sep 09 05:40	29°♂15'47		evening set	2971 Aug 22 03:38	11°♂45'26	
min. Earth dist.	2970 Sep 12 19:56	26°♂23'52	0.62267 AU	min. Earth dist.	2971 Aug 25 22:51	9°♂08'27	0.60251 AU
inferior conj	2970 Sep 15 18:47	23°♂39'09	-3°54'13	inferior conj	2971 Aug 29 05:03	6°♂29'08	-4°39'11
minimum elong	2970 Sep 16 00:25	23°♂26'01	3°52'44	minimum elong	2971 Aug 29 09:51	6°♂19'16	4°38'24
morning rise	2970 Sep 22 20:46	18°♂35'41		morning rise	2971 Sep 05 18:03	1°♂47'14	
direct	2970 Sep 25 06:29	18°♂10'08		direct	2971 Sep 08 03:33	1°♂25'39	
asc. node	2970 Sep 28 22:53	19°♂11'58		morning max el	2971 Sep 15 14:11	5°♂04'34	18°09'33
morning max el	2970 Oct 02 02:10	21°♂38'01	17°52'20	asc. node	2971 Sep 15 19:54	5°♂18'34	
	2970 Oct 08 11:22	0°♂		morning set	2971 Oct 01 10:22	0°♂12'04	
morning set	2970 Oct 18 01:50	16°♂36'28			2971 Oct 01 07:47	0°♂	
	2970 Oct 25 14:41	0°♂					
superior conj	2970 Oct 29 02:21	6°♂00'53	0°50'27	superior conj	2971 Oct 11 00:41	17°♂59'07	1°19'11
minimum elong	2970 Oct 29 06:28	6°♂18'27	0°49'54	minimum elong	2971 Oct 11 04:44	18°♂17'23	1°18'44
max. Earth dist.	2970 Nov 05 06:29	17°♂57'46	1.43164 AU		2971 Oct 17 21:30	0°♂	
desc. node	2970 Nov 05 15:02	18°♂32'33		max. Earth dist.	2971 Oct 18 15:47	1°♂17'22	1.41372 AU
evening rise	2970 Nov 12 16:58	29°♂48'24		evening rise	2971 Oct 23 19:07	9°♂47'04	
	2970 Nov 12 19:57	0°♂		desc. node	2971 Oct 23 12:03	9°♂18'28	
	2970 Dec 03 02:36	0°♂			2971 Nov 05 21:37	0°♂	
evening max el	2970 Dec 13 21:00	13°♂20'41	21°36'48	evening max el	2971 Nov 26 13:28	26°♂55'11	22°55'04
retrograde	2970 Dec 22 20:53	18°♂41'41			2971 Nov 29 23:26	0°♂	
asc. node	2970 Dec 25 22:09	17°♂50'43		retrograde	2971 Dec 06 15:51	2°♂54'43	
evening set	2970 Dec 27 03:26	17°♂00'46		evening set	2971 Dec 11 10:33	0°♂57'25	
inferior conj	2971 Jan 01 11:48	10°♂43'56	2°05'29		2971 Dec 12 11:31	30°♂♂	
minimum elong	2971 Jan 01 09:26	10°♂52'08	2°04'40	asc. node	2971 Dec 12 19:09	29°♂40'21	
min. Earth dist.	2971 Jan 01 16:02	10°♂29'13	0.67797 AU	inferior conj	2971 Dec 16 19:28	24°♂34'46	1°20'08
morning rise	2971 Jan 06 15:15	4°♂31'40		minimum elong	2971 Dec 16 17:44	24°♂40'45	1°19'28
direct	2971 Jan 11 15:54	2°♂21'51		min. Earth dist.	2971 Dec 16 12:42	24°♂58'07	0.67914 AU
morning max el	2971 Jan 21 18:41	8°♂22'15	23°03'55	morning rise	2971 Dec 22 00:48	18°♂25'43	
desc. node	2971 Feb 01 14:16	21°♂28'15		direct	2971 Dec 26 10:51	16°♂38'43	
	2971 Feb 07 16:15	0°♂		morning max el	2972 Jan 04 08:10	21°♂50'33	21°38'13
morning set	2971 Feb 25 10:47	27°♂38'41			2972 Jan 11 07:08	0°♂	
	2971 Feb 26 20:31	0°♂		desc. node	2972 Jan 19 11:19	11°♂15'15	
max. Earth dist.	2971 Mar 01 19:39	5°♂03'27	1.39662 AU		2972 Jan 31 23:38	0°♂	
				morning set	2972 Feb 05 07:23	6°♂47'37	
superior conj	2971 Mar 09 12:30	18°♂47'52	-1°52'40	max. Earth dist.	2972 Feb 11 19:04	17°♂19'18	1.41765 AU
minimum elong	2971 Mar 09 16:43	19°♂07'14	1°52'19				
	2971 Mar 15 11:39	0°♂		superior conj	2972 Feb 19 09:30	0°♂14'15	-2°05'02
evening rise	2971 Mar 19 02:47	6°♂57'26		minimum elong	2972 Feb 19 11:16	0°♂21'57	2°05'00
asc. node	2971 Mar 23 21:27	15°♂58'45			2972 Feb 19 06:14	0°♂	
	2971 Apr 01 15:07	0°♂		evening rise	2972 Mar 01 06:49	19°♂49'20	
evening max el	2971 Apr 04 07:48	3°♂01'35	18°32'19		2972 Mar 06 21:23	0°♂	
retrograde	2971 Apr 12 00:03	6°♂47'58		asc. node	2972 Mar 09 18:28	4°♂57'53	
evening set	2971 Apr 14 07:44	6°♂28'25		evening max el	2972 Mar 17 16:59	15°♂53'11	18°10'42
inferior conj	2971 Apr 21 20:53	1°♂59'50	2°18'10	retrograde	2972 Mar 24 13:09	19°♂20'17	
minimum elong	2971 Apr 22 00:44	1°♂52'17	2°17'06	evening set	2972 Mar 27 03:07	18°♂51'25	
	2971 Apr 24 09:55	30°♂♂		inferior conj	2972 Apr 02 23:06	14°♂01'50	3°11'05
min. Earth dist.	2971 Apr 25 06:54	29°♂20'17	0.58096 AU	minimum elong	2972 Apr 03 02:04	13°♂55'02	3°10'35
morning rise	2971 Apr 29 14:37	26°♂36'33		min. Earth dist.	2972 Apr 06 07:05	11°♂00'45	0.60239 AU
desc. node	2971 Apr 30 13:26	26°♂10'37		morning rise	2972 Apr 09 22:49	8°♂15'21	
direct	2971 May 05 11:40	25°♂08'21		desc. node	2972 Apr 16 10:28	6°♂11'20	
				direct	2972 Apr 16 13:06	6°♂11'18	

morning max el	2972 Apr 30 20:08	14° Υ 03'02	27°35'56		2973 Apr 16 18:26	0° Υ	
	2972 May 13 15:04	0° \mathcal{B}			2973 May 07 03:43	0° \mathcal{B}	
	2972 May 30 18:53	0° Π		morning set	2973 May 16 19:26	18° \mathcal{B} 17'48	
morning set	2972 Jun 01 17:38	3° Π 59'16			2973 May 22 09:33	0° Π	
asc. node	2972 Jun 05 17:44	12° Π 29'06		max. Earth dist.	2973 May 22 09:45	0° Π 01'02	1.32534 AU
max. Earth dist.	2972 Jun 08 01:22	17° Π 32'21	1.32145 AU	asc. node	2973 May 23 14:48	2° Π 37'47	
superior conj	2972 Jun 08 22:31	19° Π 28'32	0°33'11	superior conj	2973 May 24 07:58	4° Π 10'53	0°07'32
minimum elong	2972 Jun 08 21:06	19° Π 20'41	0°32'53	minimum elong	2973 May 24 07:36	4° Π 08'57	0°07'28
	2972 Jun 13 17:47	0° \mathcal{E}		behind sun begin	2973 May 24 03:00	3° Π 43'57	
evening rise	2972 Jun 15 18:40	4° \mathcal{E} 22'16		behind sun end	2973 May 24 12:12	4° Π 33'58	
	2972 Jun 29 09:26	0° Ω		evening rise	2973 May 31 06:26	19° Π 12'49	
evening max el	2972 Jul 13 04:51	17° Ω 51'39	25°35'11		2973 Jun 05 13:02	0° \mathcal{E}	
desc. node	2972 Jul 13 09:43	18° Ω 03'12		evening max el	2973 Jun 24 18:57	28° \mathcal{E} 30'56	24°05'24
retrograde	2972 Jul 27 04:41	24° Ω 58'52			2973 Jun 26 09:52	0° Ω	
evening set	2972 Aug 02 03:03	23° Ω 36'23		desc. node	2973 Jun 30 06:44	2° Ω 52'06	
min. Earth dist.	2972 Aug 06 16:57	20° Ω 56'58	0.58201 AU	retrograde	2973 Jul 08 13:57	5° Ω 27'39	
inferior conj	2972 Aug 09 21:18	18° Ω 42'10	-5°03'20	evening set	2973 Jul 13 03:01	4° Ω 41'53	
minimum elong	2972 Aug 09 22:38	18° Ω 39'47	5°03'17	min. Earth dist.	2973 Jul 19 05:31	1° Ω 42'53	0.56401 AU
morning rise	2972 Aug 17 20:31	14° Ω 23'01		inferior conj	2973 Jul 21 17:20	0° Ω 10'30	-4°52'20
direct	2972 Aug 20 08:48	14° Ω 03'14		minimum elong	2973 Jul 21 13:02	0° Ω 17'11	4°51'52
morning max el	2972 Aug 28 19:13	18° Ω 03'21	18°47'20		2973 Jul 22 00:06	30° \mathcal{R} \mathcal{E}	
asc. node	2972 Sep 01 16:56	22° Ω 32'20		morning rise	2973 Jul 30 01:41	26° \mathcal{E} 11'11	
	2972 Sep 06 13:30	0° \mathcal{M}		direct	2973 Aug 01 18:52	25° \mathcal{E} 51'55	
morning set	2972 Sep 14 05:46	14° \mathcal{M} 19'07			2973 Aug 11 03:15	0° Ω	
	2972 Sep 22 07:20	0° $\underline{\Omega}$		morning max el	2973 Aug 11 14:23	0° Ω 25'20	19°46'44
superior conj	2972 Sep 22 19:28	0° $\underline{\Omega}$ 57'37	1°36'39	asc. node	2973 Aug 19 14:01	10° Ω 38'51	
minimum elong	2972 Sep 22 22:01	1° $\underline{\Omega}$ 09'42	1°36'27	morning set	2973 Aug 29 08:42	28° Ω 48'36	
max. Earth dist.	2972 Sep 29 21:01	13° $\underline{\Omega}$ 55'25	1.39331 AU		2973 Aug 29 22:50	0° \mathcal{M}	
evening rise	2972 Oct 03 20:19	20° $\underline{\Omega}$ 49'14		superior conj	2973 Sep 06 05:27	14° \mathcal{M} 41'52	1°44'19
desc. node	2972 Oct 09 09:03	29° $\underline{\Omega}$ 58'48		minimum elong	2973 Sep 06 06:12	14° \mathcal{M} 45'38	1°44'18
	2972 Oct 09 09:21	0° \mathcal{M}		max. Earth dist.	2973 Sep 12 01:50	26° \mathcal{M} 00'00	1.37289 AU
	2972 Oct 29 23:55	0° \mathcal{J}			2973 Sep 14 05:41	0° $\underline{\Omega}$	
evening max el	2972 Nov 08 02:51	10° \mathcal{J} 33'14	24°14'51	evening rise	2973 Sep 15 20:30	2° $\underline{\Omega}$ 55'46	
retrograde	2972 Nov 19 07:14	17° \mathcal{J} 06'24		desc. node	2973 Sep 26 06:04	20° $\underline{\Omega}$ 29'36	
evening set	2972 Nov 24 15:30	14° \mathcal{J} 52'37			2973 Oct 02 11:04	0° \mathcal{M}	
asc. node	2972 Nov 28 16:11	10° \mathcal{J} 22'16		evening max el	2973 Oct 21 15:02	24° \mathcal{M} 14'19	25°29'11
min. Earth dist.	2972 Nov 29 08:51	9° \mathcal{J} 26'50	0.67686 AU		2973 Oct 29 03:55	0° \mathcal{J}	
inferior conj	2972 Nov 30 02:17	8° \mathcal{J} 28'10	0°29'07	retrograde	2973 Nov 02 18:14	1° \mathcal{J} 12'45	
minimum elong	2972 Nov 30 01:36	8° \mathcal{J} 30'31	0°28'49		2973 Nov 06 22:42	30° \mathcal{R} \mathcal{M}	
morning rise	2972 Dec 05 11:43	2° \mathcal{J} 24'34		evening set	2973 Nov 08 16:39	28° \mathcal{M} 44'07	
direct	2972 Dec 09 08:18	0° \mathcal{J} 59'41		min. Earth dist.	2973 Nov 13 02:13	23° \mathcal{M} 53'10	0.67119 AU
morning max el	2972 Dec 17 04:53	5° \mathcal{J} 29'50	20°22'18	inferior conj	2973 Nov 14 06:33	22° \mathcal{M} 22'05	-0°26'23
	2973 Jan 04 09:49	0° \mathcal{Z}		minimum elong	2973 Nov 14 07:13	22° \mathcal{M} 19'54	0°26'05
desc. node	2973 Jan 05 08:20	1° \mathcal{Z} 24'20		asc. node	2973 Nov 15 13:14	20° \mathcal{M} 44'49	
morning set	2973 Jan 14 06:15	15° \mathcal{Z} 00'14		morning rise	2973 Nov 19 22:05	16° \mathcal{M} 26'18	
	2973 Jan 23 18:43	0° \approx		direct	2973 Nov 23 06:52	15° \mathcal{M} 20'59	
max. Earth dist.	2973 Jan 24 02:42	0° \approx 32'05	1.43523 AU	morning max el	2973 Nov 30 09:35	19° \mathcal{M} 20'17	19°20'04
superior conj	2973 Jan 30 05:41	10° \approx 31'28	-2°03'16		2973 Dec 08 19:47	0° \mathcal{J}	
minimum elong	2973 Jan 30 02:19	10° \approx 17'32	2°03'09	greatest brilliancy	2973 Dec 14 00:20	7° \mathcal{J} 40'38	-0.7m
	2973 Feb 10 16:12	0° \mathcal{H}		desc. node	2973 Dec 23 05:22	21° \mathcal{J} 49'30	
evening rise	2973 Feb 11 18:16	1° \mathcal{H} 53'40		morning set	2973 Dec 24 06:08	23° \mathcal{J} 25'27	
asc. node	2973 Feb 24 15:31	23° \mathcal{H} 23'51			2973 Dec 28 11:42	0° \mathcal{Z}	
evening max el	2973 Mar 01 05:12	29° \mathcal{H} 03'22	18°08'30	max. Earth dist.	2974 Jan 06 17:04	14° \mathcal{Z} 26'58	1.44711 AU
	2973 Mar 02 05:33	0° Υ		superior conj	2974 Jan 10 00:17	19° \mathcal{Z} 41'02	-1°42'53
retrograde	2973 Mar 07 16:32	2° Υ 26'39		minimum elong	2974 Jan 09 15:52	19° \mathcal{Z} 07'33	1°42'10
evening set	2973 Mar 10 12:04	1° Υ 47'09			2974 Jan 16 10:18	0° \approx	
	2973 Mar 13 05:58	30° \mathcal{R} \mathcal{H}		evening rise	2974 Jan 24 08:59	13° \approx 03'25	
inferior conj	2973 Mar 16 18:46	26° \mathcal{H} 37'02	3°35'55		2974 Feb 03 15:55	0° \mathcal{H}	
minimum elong	2973 Mar 16 19:54	26° \mathcal{H} 34'05	3°35'51	asc. node	2974 Feb 11 12:33	11° \mathcal{H} 06'45	
min. Earth dist.	2973 Mar 19 15:24	23° \mathcal{H} 39'12	0.62369 AU	evening max el	2974 Feb 12 17:37	12° \mathcal{H} 25'08	18°25'09
morning rise	2973 Mar 23 02:28	20° \mathcal{H} 36'22		retrograde	2974 Feb 19 05:37	15° \mathcal{H} 57'41	
direct	2973 Mar 30 00:07	18° \mathcal{H} 03'38		evening set	2974 Feb 22 06:39	15° \mathcal{H} 06'46	
desc. node	2973 Apr 03 07:31	18° \mathcal{H} 56'36		inferior conj	2974 Feb 28 03:48	9° \mathcal{H} 37'51	3°39'22
morning max el	2973 Apr 13 01:24	26° \mathcal{H} 00'26	27°50'35	minimum elong	2974 Feb 28 03:12	9° \mathcal{H} 39'35	3°39'20

min. Earth dist.	2974 Mar 02 09:23	7°  02'51	0.64251 AU	min. Earth dist.	2975 Feb 13 12:40	20°  57'02	0.65762 AU
morning rise	2974 Mar 05 23:06	3°  29'23		morning rise	2975 Feb 17 09:11	16°  44'51	
direct	2974 Mar 12 19:16	0°  40'43		direct	2975 Feb 23 21:17	13°  54'14	
desc. node	2974 Mar 21 04:34	4°  00'18		desc. node	2975 Mar 08 01:38	20°  47'12	
morning max el	2974 Mar 26 10:30	8°  34'52	27°28'44	morning max el	2975 Mar 08 20:28	21°  33'51	26°36'11
	2974 Apr 12 01:47	0°  09'00			2975 Mar 16 05:03	0°  09'00	
	2974 Apr 29 10:49	0°  09'00			2975 Apr 05 06:20	0°  09'00	
morning set	2974 Apr 30 13:24	2°  09'52		morning set	2975 Apr 13 20:08	15°  25'20	
max. Earth dist.	2974 May 05 10:44	12°  03'46	1.33355 AU	max. Earth dist.	2975 Apr 18 00:55	23°  33'46	1.34632 AU
					2975 Apr 21 05:36	0°  09'00	
superior conj	2974 May 08 13:32	18°  37'21	-0°20'08	superior conj	2975 Apr 22 13:03	2°  41'36	-0°48'39
minimum elong	2974 May 08 14:33	18°  42'44	0°19'55	minimum elong	2975 Apr 22 15:35	2°  54'39	0°48'09
asc. node	2974 May 10 11:51	22°  44'48		asc. node	2975 Apr 27 08:54	12°  46'18	
	2974 May 13 21:02	0°  09'00		evening rise	2975 Apr 30 03:08	18°  32'02	
evening rise	2974 May 15 17:53	3°  58'04			2975 May 05 21:02	0°  09'00	
	2974 May 30 00:21	0°  09'00		evening max el	2975 May 19 08:06	19°  43'32	20°59'43
evening max el	2974 Jun 06 09:24	8°  57'02	22°28'46	retrograde	2975 May 31 00:25	25°  25'51	
desc. node	2974 Jun 17 03:47	15°  51'24		evening set	2975 Jun 02 04:36	25°  25'51	
retrograde	2974 Jun 19 11:08	15°  51'24		desc. node	2975 Jun 04 00:49	24°  48'57	
evening set	2974 Jun 22 13:03	15°  51'24		inferior conj	2975 Jun 11 12:57	21°  16'53	-2°10'25
min. Earth dist.	2974 Jun 30 16:36	11°  53'25	0.55197 AU	minimum elong	2975 Jun 11 06:55	21°  25'26	2°08'19
inferior conj	2974 Jul 01 19:20	10°  55'29	-3°53'28	min. Earth dist.	2975 Jun 12 04:40	20°  54'40	0.54878 AU
minimum elong	2974 Jul 01 11:12	11°  50'03	3°51'26	morning rise	2975 Jun 20 09:08	17°  14'58	
morning rise	2974 Jul 10 11:27	7°  04'29		direct	2975 Jun 23 20:42	16°  48'48	
direct	2974 Jul 13 11:14	6°  44'08		morning max el	2975 Jul 06 19:09	22°  59'50	22°43'13
morning max el	2974 Jul 24 22:01	12°  03'30	21°06'55		2975 Jul 12 23:47	0°  09'00	
asc. node	2974 Aug 06 11:05	29°  25'01		asc. node	2975 Jul 24 08:09	18°  41'12	
	2974 Aug 06 18:50	0°  09'00		morning set	2975 Jul 29 03:11	28°  24'19	
morning set	2974 Aug 13 16:32	13°  32'14			2975 Jul 29 21:22	0°  09'00	
superior conj	2974 Aug 21 02:05	28°  57'44	1°43'57	superior conj	2975 Aug 05 05:58	13°  34'58	1°36'59
minimum elong	2974 Aug 21 01:19	28°  53'50	1°43'56	minimum elong	2975 Aug 05 04:10	13°  25'26	1°36'51
	2974 Aug 21 14:10	0°  09'00		max. Earth dist.	2975 Aug 08 05:30	19°  51'37	1.34025 AU
max. Earth dist.	2974 Aug 25 11:18	7°  09'00	1.35473 AU	evening rise	2975 Aug 13 01:26	29°  38'33	
evening rise	2974 Aug 29 15:42	15°  56'06			2975 Aug 13 05:48	0°  09'00	
	2974 Sep 06 12:13	0°  09'00			2975 Aug 30 14:10	0°  09'00	
desc. node	2974 Sep 13 03:05	10°  44'47		desc. node	2975 Aug 31 00:06	0°  37'12	
	2974 Sep 26 23:07	0°  09'00		evening max el	2975 Sep 16 15:32	21°  23'05	27°12'10
evening max el	2974 Oct 04 03:14	7°  53'35	26°30'48	retrograde	2975 Sep 30 00:43	28°  41'22	
retrograde	2974 Oct 17 00:17	15°  06'59		evening set	2975 Oct 06 23:15	25°  58'47	
evening set	2974 Oct 23 12:02	12°  27'43		min. Earth dist.	2975 Oct 10 19:16	22°  19'21	0.64934 AU
min. Earth dist.	2974 Oct 27 14:26	8°  12'40	0.66203 AU	inferior conj	2975 Oct 12 23:16	19°  55'25	-2°24'55
inferior conj	2974 Oct 29 06:17	6°  12'39	-1°25'00	minimum elong	2975 Oct 13 03:14	19°  44'24	2°23'25
minimum elong	2974 Oct 29 08:35	6°  05'43	1°24'03	morning rise	2975 Oct 19 08:12	14°  23'30	
asc. node	2974 Nov 02 10:17	1°  43'57		asc. node	2975 Oct 20 07:21	14°  23'30	
morning rise	2974 Nov 04 05:44	0°  09'00		direct	2975 Oct 22 00:01	13°  46'04	
	2974 Nov 05 05:20	30°  09'00		morning max el	2975 Oct 28 11:58	17°  14'29	18°03'33
direct	2974 Nov 07 04:50	29°  37'55			2975 Nov 06 19:16	0°  09'00	
	2974 Nov 09 05:08	0°  09'00		morning set	2975 Nov 15 09:09	14°  08'44	
morning max el	2974 Nov 13 20:46	3°  17'08	18°33'27		2975 Nov 25 00:36	0°  09'00	
	2974 Dec 02 06:58	0°  09'00		desc. node	2975 Nov 26 23:24	3°  08'43	
morning set	2974 Dec 04 04:55	3°  03'16		superior conj	2975 Nov 29 10:17	7°  04'21	-0°16'37
desc. node	2974 Dec 10 02:24	12°  25'34		minimum elong	2975 Nov 29 08:13	6°  56'07	0°16'19
superior conj	2974 Dec 20 03:04	28°  27'09	-1°04'24	max. Earth dist.	2975 Dec 03 05:59	13°  07'46	1.44944 AU
minimum elong	2974 Dec 19 19:14	27°  42'24	1°03'28		2975 Dec 14 01:28	0°  09'00	
max. Earth dist.	2974 Dec 20 11:01	28°  44'20	1.45196 AU	evening rise	2975 Dec 15 18:56	2°  40'21	
	2974 Dec 21 06:18	0°  09'00		greatest brilliancy	2975 Dec 29 10:44	23°  31'06	-0.7m
evening rise	2975 Jan 05 00:20	23°  31'53			2976 Jan 02 21:54	0°  09'00	
	2975 Jan 09 06:03	0°  09'00		evening max el	2976 Jan 10 09:44	9°  23'36	19°50'29
greatest brilliancy	2975 Jan 13 22:59	7°  27'01	-0.8m	asc. node	2976 Jan 16 06:38	13°  30'57	
evening max el	2975 Jan 27 03:46	25°  53'05	18°59'43	retrograde	2976 Jan 17 21:54	13°  45'36	
asc. node	2975 Jan 29 09:35	27°  54'04		evening set	2976 Jan 21 12:57	12°  28'41	
retrograde	2975 Feb 03 00:26	29°  45'55		inferior conj	2976 Jan 26 23:40	6°  28'45	3°02'28
evening set	2975 Feb 06 07:47	28°  42'37		minimum elong	2976 Jan 26 21:14	6°  36'52	3°01'55
inferior conj	2975 Feb 11 22:28	22°  57'02	3°26'57	min. Earth dist.	2976 Jan 27 23:31	5°  09'26	0.66870 AU
minimum elong	2975 Feb 11 20:40	23°  02'43	3°26'42				

morning rise	2976 Feb 01 05:16	0°≈15'18		retrograde	2976 Dec 31 19:46	27°353'31	
	2976 Feb 01 12:11	30°R3		asc. node	2977 Jan 02 03:39	27°343'46	
direct	2976 Feb 07 05:07	27°334'46		evening set	2977 Jan 04 20:14	26°321'34	
	2976 Feb 13 16:56	0°≈		inferior conj	2977 Jan 10 04:59	20°310'03	2°28'34
morning max el	2976 Feb 19 05:21	4°≈44'43	25°21'34	minimum elong	2977 Jan 10 02:26	20°318'45	2°27'48
desc. node	2976 Feb 22 22:39	8°≈47'25		min. Earth dist.	2977 Jan 10 15:57	19°332'20	0.67574 AU
	2976 Mar 09 15:14	0°H		morning rise	2977 Jan 15 08:28	13°357'06	
morning set	2976 Mar 26 10:53	27°H49'20		direct	2977 Jan 20 17:49	11°334'48	
	2976 Mar 27 15:37	0°Y		morning max el	2977 Jan 31 13:45	18°302'04	23°55'07
max. Earth dist.	2976 Mar 30 03:27	4°Y37'27	1.36359 AU	desc. node	2977 Feb 08 19:40	27°340'10	
					2977 Feb 10 14:19	0°≈	
superior conj	2976 Apr 05 03:37	16°Y14'39	-1°16'27		2977 Mar 02 17:21	0°H	
minimum elong	2976 Apr 05 07:30	16°Y33'56	1°15'50	morning set	2977 Mar 08 03:50	9°H06'24	
	2976 Apr 11 22:58	0°B		max. Earth dist.	2977 Mar 11 23:13	15°H45'36	1.38424 AU
evening rise	2976 Apr 13 07:54	2°B47'02					
asc. node	2976 Apr 13 05:56	2°B37'07		superior conj	2977 Mar 19 05:44	29°H07'30	-1°41'07
	2976 Apr 29 16:14	0°II		minimum elong	2977 Mar 19 10:14	29°H28'54	1°40'38
evening max el	2976 Apr 30 18:39	1°II07'34	19°46'53		2977 Mar 19 16:47	0°Y	
retrograde	2976 May 10 17:03	5°II56'20		evening rise	2977 Mar 28 05:41	16°Y36'22	
evening set	2976 May 12 16:49	5°II45'36		asc. node	2977 Mar 31 02:57	22°Y12'38	
desc. node	2976 May 20 21:51	2°II06'32			2977 Apr 04 08:02	0°B	
inferior conj	2976 May 21 12:31	1°II43'56	-0°10'45	evening max el	2977 Apr 13 16:16	13°B10'58	18°53'36
minimum elong	2976 May 21 12:02	1°II44'41	0°10'35	retrograde	2977 Apr 22 01:10	17°B15'46	
transit middle	2976 May 21 12:02	1°II44'41	0°10'35	evening set	2977 Apr 24 05:20	17°B00'22	
transit begin	2976 May 21 09:05	1°II49'16		inferior conj	2977 May 02 05:38	12°B42'42	1°32'47
transit end	2976 May 21 15:00	1°II40'06		minimum elong	2977 May 02 08:54	12°B36'52	1°31'44
min. Earth dist.	2976 May 23 18:11	0°II21'15	0.55528 AU	min. Earth dist.	2977 May 05 10:08	10°B26'44	0.57001 AU
	2976 May 24 08:23	30°R3		desc. node	2977 May 07 18:53	8°B56'18	
morning rise	2976 May 30 04:57	27°B13'51		morning rise	2977 May 10 09:19	7°B37'41	
direct	2976 Jun 03 12:28	26°B32'39		direct	2977 May 15 17:08	6°B29'40	
	2976 Jun 13 04:49	0°II		morning max el	2977 May 30 00:45	13°B56'02	26°00'08
morning max el	2976 Jun 17 09:55	3°II28'09	24°25'52		2977 Jun 11 18:04	0°II	
	2976 Jul 05 23:27	0°E		morning set	2977 Jun 27 02:12	28°II12'11	
asc. node	2976 Jul 10 05:11	8°E19'01		asc. node	2977 Jun 27 02:12	28°II12'09	
morning set	2976 Jul 12 14:57	13°E19'18			2977 Jun 27 22:32	0°E	
superior conj	2976 Jul 19 14:28	28°E24'54	1°24'34	superior conj	2977 Jul 04 01:31	13°E20'49	1°07'35
minimum elong	2976 Jul 19 12:10	28°E12'22	1°24'17	minimum elong	2977 Jul 03 23:12	13°E08'03	1°07'11
	2976 Jul 20 08:00	0°Q		max. Earth dist.	2977 Jul 04 17:59	14°E51'16	1.32350 AU
max. Earth dist.	2976 Jul 21 08:36	2°Q12'55	1.32985 AU	evening rise	2977 Jul 11 01:19	28°E24'53	
evening rise	2976 Jul 26 21:42	13°Q51'22			2977 Jul 11 19:41	0°Q	
	2976 Aug 04 08:38	0°P			2977 Jul 28 14:56	0°P	
desc. node	2976 Aug 16 21:09	19°P57'12		desc. node	2977 Aug 03 18:10	8°P31'06	
	2976 Aug 24 18:34	0°A		evening max el	2977 Aug 11 08:57	17°P02'05	27°08'31
evening max el	2976 Aug 29 02:20	4°A30'38	27°26'25	retrograde	2977 Aug 25 05:36	24°P15'24	
retrograde	2976 Sep 11 18:45	11°A47'19		evening set	2977 Sep 01 08:02	21°P58'49	
evening set	2976 Sep 18 23:15	9°A11'34		min. Earth dist.	2977 Sep 04 23:13	19°P15'18	0.61426 AU
min. Earth dist.	2976 Sep 22 14:38	6°A04'27	0.63324 AU	inferior conj	2977 Sep 08 01:56	16°P30'58	-4°15'09
inferior conj	2976 Sep 25 06:53	3°A24'21	-3°23'13	minimum elong	2977 Sep 08 07:29	16°P18'42	4°13'53
minimum elong	2976 Sep 25 12:11	3°A11'08	3°21'33	morning rise	2977 Sep 15 08:38	11°P36'19	
	2976 Sep 29 00:04	30°R P		direct	2977 Sep 17 18:03	11°P12'37	
morning rise	2976 Oct 02 02:26	28°P09'17		asc. node	2977 Sep 23 01:24	13°P13'53	
direct	2976 Oct 04 13:38	27°P40'12		morning max el	2977 Sep 24 18:52	14°P43'47	17°57'19
asc. node	2976 Oct 06 04:22	27°P52'55			2977 Oct 05 06:48	0°A	
	2976 Oct 09 23:32	0°A		morning set	2977 Oct 10 14:55	9°A39'37	
morning max el	2976 Oct 11 04:21	1°A05'54	17°51'12				
morning set	2976 Oct 27 14:40	26°A27'36		superior conj	2977 Oct 20 23:33	28°A18'22	1°04'06
	2976 Oct 29 15:22	0°M		minimum elong	2977 Oct 21 03:55	28°A37'26	1°03'33
					2977 Oct 21 22:56	0°M	
superior conj	2976 Nov 08 15:26	17°M01'51	0°28'39	max. Earth dist.	2977 Oct 28 12:16	11°M05'07	1.42445 AU
minimum elong	2976 Nov 08 18:18	17°M13'43	0°28'15	desc. node	2977 Oct 30 17:27	14°M42'50	
desc. node	2976 Nov 12 20:25	23°M55'43		evening rise	2977 Nov 03 19:45	21°M16'49	
max. Earth dist.	2976 Nov 14 23:18	27°M20'48	1.43989 AU		2977 Nov 09 10:21	0°J	
	2976 Nov 16 15:10	0°J			2977 Nov 30 13:55	0°3	
evening rise	2976 Nov 24 03:58	11°J47'38		evening max el	2977 Dec 06 05:28	6°328'11	22°09'29
	2976 Dec 06 05:20	0°3		retrograde	2977 Dec 15 16:15	12°305'33	
evening max el	2976 Dec 23 10:22	22°355'35	20°54'56	evening set	2977 Dec 20 03:53	10°317'29	

asc. node	2977 Dec 20 00:40	10° ♄ 23'56		evening set	2978 Dec 04 10:18	24° ♄ 13'50	
inferior conj	2977 Dec 25 12:17	3° ♄ 57'40	1°47'00	asc. node	2978 Dec 06 21:42	21° ♄ 40'20	
minimum elong	2977 Dec 25 10:09	4° ♄ 05'07	1°46'14	inferior conj	2978 Dec 09 19:49	17° ♄ 49'38	0°59'07
min. Earth dist.	2977 Dec 25 11:41	3° ♄ 59'47	0.67892 AU	minimum elong	2978 Dec 09 18:29	17° ♄ 54'14	0°58'34
	2977 Dec 28 12:24	30° ♄		min. Earth dist.	2978 Dec 09 08:26	18° ♄ 28'38	0.67855 AU
morning rise	2977 Dec 30 16:17	27° ♄ 46'47		morning rise	2978 Dec 15 02:38	11° ♄ 42'38	
direct	2978 Jan 04 10:37	25° ♄ 46'48		direct	2978 Dec 19 06:40	10° ♄ 05'29	
	2978 Jan 12 12:48	0° ♄		morning max el	2978 Dec 27 16:57	14° ♄ 58'49	21°04'29
morning max el	2978 Jan 14 00:29	1° ♄ 25'45	22°26'43		2979 Jan 08 15:12	0° ♄	
desc. node	2978 Jan 26 16:41	17° ♄ 10'10		desc. node	2979 Jan 13 13:43	7° ♄ 07'07	
	2978 Feb 04 13:04	0° ♄		morning set	2979 Jan 27 02:47	27° ♄ 41'49	
morning set	2978 Feb 16 17:14	19° ♄ 02'36			2979 Jan 28 13:55	0° ♄	
max. Earth dist.	2978 Feb 21 19:49	27° ♄ 32'02	1.40586 AU	max. Earth dist.	2979 Feb 03 22:24	10° ♄ 11'51	1.42564 AU
	2978 Feb 23 06:33	0° ♄					
				superior conj	2979 Feb 11 01:43	22° ♄ 06'08	-2°06'21
superior conj	2978 Mar 01 14:49	11° ♄ 08'37	-1°59'18	minimum elong	2979 Feb 11 01:35	22° ♄ 05'34	2°06'20
minimum elong	2978 Mar 01 18:20	11° ♄ 24'25	1°59'06		2979 Feb 15 15:24	0° ♄	
evening rise	2978 Mar 11 17:17	29° ♄ 51'58		evening rise	2979 Feb 22 14:51	12° ♄ 24'49	
	2978 Mar 11 19:00	0° ♄		asc. node	2979 Mar 04 21:01	0° ♄ 13'25	
asc. node	2978 Mar 17 23:59	11° ♄ 27'09			2979 Mar 04 17:38	0° ♄	
evening max el	2978 Mar 27 22:08	25° ♄ 47'24	18°20'35	evening max el	2979 Mar 11 08:58	8° ♄ 47'55	18°07'25
retrograde	2978 Apr 04 04:30	29° ♄ 23'58		retrograde	2979 Mar 18 00:19	12° ♄ 11'55	
evening set	2978 Apr 06 14:52	29° ♄ 00'43		evening set	2979 Mar 20 16:34	11° ♄ 38'49	
inferior conj	2978 Apr 13 20:14	24° ♄ 22'56	2°44'27	inferior conj	2979 Mar 27 06:26	6° ♄ 40'32	3°24'39
minimum elong	2978 Apr 13 23:56	24° ♄ 15'10	2°43'36	minimum elong	2979 Mar 27 08:40	6° ♄ 35'08	3°24'22
min. Earth dist.	2978 Apr 17 06:45	21° ♄ 31'14	0.58989 AU	min. Earth dist.	2979 Mar 30 10:26	3° ♄ 37'41	0.61157 AU
morning rise	2978 Apr 21 06:14	18° ♄ 48'18		morning rise	2979 Apr 02 22:55	0° ♄ 46'43	
desc. node	2978 Apr 24 15:53	17° ♄ 26'11			2979 Apr 04 05:23	30° ♄	
direct	2978 Apr 27 11:28	17° ♄ 04'54		direct	2979 Apr 09 17:26	28° ♄ 28'57	
morning max el	2978 May 11 20:39	24° ♄ 50'36	27°10'38	desc. node	2979 Apr 11 12:56	28° ♄ 38'16	
	2978 May 16 14:16	0° ♄			2979 Apr 15 13:18	0° ♄	
	2978 Jun 04 23:15	0° ♄		morning max el	2979 Apr 23 22:48	6° ♄ 24'42	27°46'47
morning set	2978 Jun 11 11:22	12° ♄ 57'38			2979 May 11 17:35	0° ♄	
asc. node	2978 Jun 13 23:15	18° ♄ 15'30		morning set	2979 May 26 16:28	27° ♄ 28'11	
					2979 May 27 21:46	0° ♄	
superior conj	2978 Jun 18 13:20	28° ♄ 16'52	0°46'43	asc. node	2979 May 31 20:18	8° ♄ 23'30	
minimum elong	2978 Jun 18 11:27	28° ♄ 06'32	0°46'20	max. Earth dist.	2979 Jun 01 16:42	10° ♄ 14'19	1.32256 AU
max. Earth dist.	2978 Jun 18 06:01	27° ♄ 36'33	1.32104 AU				
	2978 Jun 19 08:03	0° ♄		superior conj	2979 Jun 03 00:09	13° ♄ 06'07	0°22'37
evening rise	2978 Jun 25 09:46	13° ♄ 11'09		minimum elong	2979 Jun 02 23:08	13° ♄ 00'33	0°22'23
	2978 Jul 03 21:55	0° ♄		evening rise	2979 Jun 09 20:51	28° ♄ 01'56	
desc. node	2978 Jul 21 15:11	26° ♄ 00'10			2979 Jun 10 19:12	0° ♄	
evening max el	2978 Jul 24 08:54	28° ♄ 47'49	26°17'35		2979 Jun 27 18:26	0° ♄	
	2978 Jul 25 16:26	0° ♄		evening max el	2979 Jul 06 01:44	9° ♄ 47'14	24°58'48
retrograde	2978 Aug 07 08:22	5° ♄ 58'25		desc. node	2979 Jul 08 12:13	11° ♄ 57'04	
evening set	2978 Aug 13 20:58	4° ♄ 13'29		retrograde	2979 Jul 20 01:00	16° ♄ 52'08	
min. Earth dist.	2978 Aug 17 21:51	1° ♄ 38'05	0.59368 AU	evening set	2979 Jul 25 10:07	15° ♄ 46'03	
	2978 Aug 20 01:23	30° ♄		min. Earth dist.	2979 Jul 30 13:19	12° ♄ 59'57	0.57382 AU
inferior conj	2978 Aug 21 04:57	29° ♄ 06'34	-4°52'46	inferior conj	2979 Aug 02 12:41	11° ♄ 01'03	-5°03'53
minimum elong	2978 Aug 21 08:39	28° ♄ 59'25	4°52'21	minimum elong	2979 Aug 02 11:46	11° ♄ 02'37	5°03'52
morning rise	2978 Aug 28 22:29	24° ♄ 34'44		morning rise	2979 Aug 10 15:59	6° ♄ 51'14	
direct	2978 Aug 31 08:52	24° ♄ 14'08		direct	2979 Aug 13 05:55	6° ♄ 32'00	
morning max el	2978 Sep 08 04:24	28° ♄ 00'21	18°23'08	morning max el	2979 Aug 22 05:40	10° ♄ 44'57	19°09'57
asc. node	2978 Sep 09 22:27	29° ♄ 51'18		asc. node	2979 Aug 27 19:31	17° ♄ 29'06	
	2978 Sep 10 01:28	0° ♄			2979 Sep 04 03:36	0° ♄	
morning set	2978 Sep 24 04:34	23° ♄ 29'59		morning set	2979 Sep 08 03:31	7° ♄ 47'06	
	2978 Sep 27 14:04	0° ♄					
				superior conj	2979 Sep 16 09:14	24° ♄ 04'14	1°40'58
superior conj	2978 Oct 03 07:21	10° ♄ 44'44	1°27'53	minimum elong	2979 Sep 16 11:00	24° ♄ 12'51	1°40'53
minimum elong	2978 Oct 03 10:52	11° ♄ 00'54	1°27'33		2979 Sep 19 11:47	0° ♄	
max. Earth dist.	2978 Oct 10 19:31	24° ♄ 06'52	1.40514 AU	max. Earth dist.	2979 Sep 22 23:20	6° ♄ 25'53	1.38444 AU
	2978 Oct 14 06:55	0° ♄		evening rise	2979 Sep 26 18:36	13° ♄ 11'15	
evening rise	2978 Oct 15 07:16	1° ♄ 41'04		desc. node	2979 Oct 04 11:31	26° ♄ 03'33	
desc. node	2978 Oct 17 14:29	5° ♄ 26'51			2979 Oct 06 23:16	0° ♄	
	2978 Nov 02 19:29	0° ♄			2979 Oct 28 20:43	0° ♄	
evening max el	2978 Nov 18 20:11	20° ♄ 03'08	23°29'09	evening max el	2979 Nov 01 08:45	3° ♄ 42'13	24°47'39
retrograde	2978 Nov 29 09:57	26° ♄ 18'26		retrograde	2979 Nov 12 23:44	10° ♄ 28'04	

evening set	2979 Nov 18 13:52	8°♊07'47		desc. node	2980 Sep 20 08:33	16°♌28'16	
min. Earth dist.	2979 Nov 23 03:49	2°♊56'22	0.67478 AU		2980 Sep 29 11:27	0°♌	
asc. node	2979 Nov 23 18:45	2°♊07'00		evening max el	2980 Oct 13 21:04	17°♌23'41	25°57'34
inferior conj	2979 Nov 24 01:48	1°♊43'35	0°06'04	retrograde	2980 Oct 26 08:36	24°♌29'22	
minimum elong	2979 Nov 24 01:39	1°♊44'05	0°05'59	evening set	2980 Nov 01 12:47	21°♌55'51	
transit middle	2979 Nov 24 01:39	1°♊44'05	0°05'59	min. Earth dist.	2980 Nov 05 19:21	17°♌19'52	0.66768 AU
transit begin	2979 Nov 23 23:05	1°♊52'34		inferior conj	2980 Nov 07 04:23	15°♌36'19	-0°50'58
transit end	2979 Nov 24 04:13	1°♊35'36		minimum elong	2980 Nov 07 05:44	15°♌32'06	0°50'24
	2979 Nov 25 09:32	30°♌		asc. node	2980 Nov 09 15:48	12°♌38'08	
morning rise	2979 Nov 29 13:34	25°♌42'45		morning rise	2980 Nov 12 23:03	9°♌44'22	
direct	2979 Dec 03 04:50	24°♌26'38		direct	2980 Nov 16 03:30	8°♌46'08	
morning max el	2979 Dec 10 17:04	28°♌42'45	19°53'58	morning max el	2980 Nov 23 00:40	12°♌35'39	18°58'12
	2979 Dec 11 22:28	0°♊			2980 Dec 05 20:04	0°♊	
desc. node	2979 Dec 31 10:45	27°♊23'35		morning set	2980 Dec 15 06:26	14°♊40'28	
	2980 Jan 02 03:43	0°♊		desc. node	2980 Dec 17 07:47	17°♊53'33	
morning set	2980 Jan 05 22:44	5°♊49'49			2980 Dec 25 01:23	0°♊	
max. Earth dist.	2980 Jan 17 08:35	23°♊42'22	1.44099 AU	max. Earth dist.	2980 Dec 30 00:57	7°♊49'13	1.45006 AU
	2980 Jan 21 06:42	0°♌					
superior conj	2980 Jan 22 10:43	1°♌53'30	-1°57'03	superior conj	2980 Dec 31 20:34	10°♊40'59	-1°28'26
minimum elong	2980 Jan 22 04:52	1°♌29'46	1°56'43	minimum elong	2980 Dec 31 11:30	10°♊05'13	1°27'31
evening rise	2980 Feb 04 17:57	24°♌06'32			2981 Jan 12 23:03	0°♌	
	2980 Feb 08 04:36	0°♋		evening rise	2981 Jan 15 22:45	4°♌50'47	
asc. node	2980 Feb 19 18:05	18°♋22'49			2981 Jan 31 21:33	0°♋	
evening max el	2980 Feb 22 21:42	22°♋04'31	18°13'26	evening max el	2981 Feb 05 09:29	5°♋29'25	18°37'50
retrograde	2980 Feb 29 08:14	25°♋30'05		asc. node	2981 Feb 05 15:08	5°♋43'34	
evening set	2980 Mar 03 06:04	24°♋45'52		retrograde	2981 Feb 12 00:04	9°♋08'57	
inferior conj	2980 Mar 09 08:19	19°♋27'52	3°39'37	evening set	2981 Feb 15 03:47	8°♋12'43	
minimum elong	2980 Mar 09 08:40	19°♋26'55	3°39'36	inferior conj	2981 Feb 20 21:50	2°♋36'31	3°35'45
min. Earth dist.	2980 Mar 11 22:55	16°♋37'31	0.63207 AU	minimum elong	2981 Feb 20 20:39	2°♋40'04	3°35'39
morning rise	2980 Mar 15 10:17	13°♋23'24		min. Earth dist.	2981 Feb 22 20:46	0°♋15'33	0.64944 AU
direct	2980 Mar 22 08:27	10°♋41'47			2981 Feb 23 02:04	30°♌	
desc. node	2980 Mar 28 09:57	12°♋26'52		morning rise	2981 Feb 26 13:03	26°♌26'24	
morning max el	2980 Apr 05 05:53	18°♋38'52	27°45'26	direct	2981 Mar 05 06:35	23°♌35'19	
	2980 Apr 14 19:53	0°♎		desc. node	2981 Mar 15 06:59	28°♌17'57	
	2980 May 03 14:31	0°♏			2981 Mar 17 04:51	0°♋	
morning set	2980 May 09 15:19	11°♏36'51		morning max el	2981 Mar 18 15:26	1°♋24'07	27°09'42
max. Earth dist.	2980 May 14 22:15	22°♏32'43	1.32830 AU		2981 Apr 08 22:45	0°♎	
				morning set	2981 Apr 23 04:56	25°♎14'12	
superior conj	2980 May 17 08:14	27°♏42'59	-0°04'01		2981 Apr 25 15:06	0°♏	
minimum elong	2980 May 17 08:26	27°♏44'03	0°03'58	max. Earth dist.	2981 Apr 27 18:55	4°♏21'21	1.33846 AU
behind sun begin	2980 May 17 03:18	27°♏16'26					
behind sun end	2980 May 17 13:33	28°♏11'41		superior conj	2981 May 01 11:32	12°♏00'43	-0°32'11
asc. node	2980 May 17 17:22	28°♏32'16		minimum elong	2981 May 01 13:11	12°♏09'24	0°31'50
	2980 May 18 09:36	0°♐		asc. node	2981 May 04 14:26	18°♏37'19	
evening rise	2980 May 24 08:44	12°♐51'14		evening rise	2981 May 08 19:29	27°♏32'24	
	2980 Jun 02 01:20	0°♑			2981 May 09 23:51	0°♐	
evening max el	2980 Jun 16 15:13	20°♑17'43	23°24'12		2981 May 28 12:51	0°♑	
desc. node	2980 Jun 24 09:14	25°♑47'55		evening max el	2981 May 29 08:30	0°♑49'17	21°49'17
retrograde	2980 Jun 30 04:58	27°♑04'54		retrograde	2981 Jun 10 21:20	7°♑00'01	
evening set	2980 Jul 04 02:09	26°♑31'55		desc. node	2981 Jun 11 06:14	6°♑59'42	
min. Earth dist.	2980 Jul 11 01:08	23°♑20'09	0.55803 AU	evening set	2981 Jun 13 12:03	6°♑44'42	
inferior conj	2980 Jul 13 00:27	22°♑10'11	-4°33'34	inferior conj	2981 Jun 22 21:17	2°♑41'44	-3°14'00
minimum elong	2980 Jul 12 17:58	22°♑19'49	4°32'27	minimum elong	2981 Jun 22 13:17	2°♑52'55	3°11'36
morning rise	2980 Jul 21 12:16	18°♑15'51		min. Earth dist.	2981 Jun 22 12:12	2°♑54'25	0.54952 AU
direct	2980 Jul 24 07:58	17°♑56'21			2981 Jun 28 02:53	30°♌	
morning max el	2980 Aug 03 19:57	22°♑48'31	20°18'20	morning rise	2981 Jul 01 15:50	28°♐48'46	
	2980 Aug 09 21:58	0°♑		direct	2981 Jul 04 20:04	28°♐26'35	
asc. node	2980 Aug 13 16:35	5°♑53'42			2981 Jul 11 03:56	0°♑	
morning set	2980 Aug 22 08:48	22°♑23'02		morning max el	2981 Jul 16 22:38	4°♑07'24	21°46'18
	2980 Aug 26 01:43	0°♒		asc. node	2981 Jul 31 13:38	24°♑53'55	
					2981 Aug 03 05:19	0°♑	
superior conj	2980 Aug 30 00:10	8°♒02'48	1°45'02	morning set	2981 Aug 06 18:06	7°♑11'26	
minimum elong	2980 Aug 30 00:14	8°♒03'08	1°45'03				
max. Earth dist.	2980 Sep 04 05:30	18°♒21'09	1.36485 AU	superior conj	2981 Aug 14 00:16	22°♑29'01	1°41'44
evening rise	2980 Sep 08 03:27	25°♒42'06		minimum elong	2981 Aug 13 23:00	22°♑22'26	1°41'40
	2980 Sep 10 12:33	0°♓			2981 Aug 17 15:40	0°♒	
				max. Earth dist.	2981 Aug 17 18:53	0°♒16'14	1.34814 AU

evening rise	2981 Aug 22 05:24	9° \cap 02'07		evening rise	2982 Aug 05 20:01	22° Ω 58'34	
	2981 Sep 03 01:20	0° $\underline{\Omega}$			2982 Aug 09 10:36	0° \cap	
desc. node	2981 Sep 07 05:34	6° $\underline{\Omega}$ 35'07		desc. node	2982 Aug 25 02:36	26° \cap 15'17	
	2981 Sep 25 08:48	0° \cap			2982 Aug 27 17:53	0° $\underline{\Omega}$	
evening max el	2981 Sep 26 09:33	1° \cap 00'48	26°51'17	evening max el	2982 Sep 08 21:18	14° $\underline{\Omega}$ 21'58	27°21'44
retrograde	2981 Oct 09 12:05	8° \cap 16'25		retrograde	2982 Sep 22 09:49	21° $\underline{\Omega}$ 40'13	
evening set	2981 Oct 16 04:59	5° \cap 34'46		evening set	2982 Sep 29 11:51	18° $\underline{\Omega}$ 58'46	
min. Earth dist.	2981 Oct 20 04:38	1° \cap 35'08	0.65711 AU	min. Earth dist.	2982 Oct 03 05:27	15° $\underline{\Omega}$ 34'07	0.64295 AU
	2981 Oct 21 13:22	30° \mathcal{R} $\underline{\Omega}$		inferior conj	2982 Oct 05 14:52	13° $\underline{\Omega}$ 01'55	-2°50'04
inferior conj	2981 Oct 22 01:32	29° $\underline{\Omega}$ 24'25	-1°50'24	minimum elong	2982 Oct 05 19:28	12° $\underline{\Omega}$ 49'41	2°48'25
minimum elong	2981 Oct 22 04:34	29° $\underline{\Omega}$ 15'37	1°49'11	morning rise	2982 Oct 12 04:15	7° $\underline{\Omega}$ 37'03	
asc. node	2981 Oct 27 12:50	24° $\underline{\Omega}$ 07'18		asc. node	2982 Oct 14 09:51	7° $\underline{\Omega}$ 04'10	
morning rise	2981 Oct 28 04:51	23° $\underline{\Omega}$ 44'25		direct	2982 Oct 14 17:47	7° $\underline{\Omega}$ 03'37	
direct	2981 Oct 31 00:40	23° $\underline{\Omega}$ 00'26		morning max el	2982 Oct 21 06:01	10° $\underline{\Omega}$ 29'38	17°56'08
morning max el	2981 Nov 06 13:54	26° $\underline{\Omega}$ 33'35	18°18'39		2982 Nov 03 12:27	0° \cap	
	2981 Nov 09 13:49	0° \cap		morning set	2982 Nov 07 09:37	6° \cap 35'28	
morning set	2981 Nov 25 17:54	24° \cap 56'40					
	2981 Nov 28 20:53	0° \mathcal{R}		superior conj	2982 Nov 20 13:38	28° \cap 29'01	0°03'30
desc. node	2981 Dec 04 04:50	8° \mathcal{R} 33'12		minimum elong	2982 Nov 20 14:02	28° \cap 30'37	0°03'27
				behind sun begin	2982 Nov 20 04:01	27° \cap 50'05	
superior conj	2981 Dec 10 22:29	19° \mathcal{R} 13'15	-0°44'31	behind sun end	2982 Nov 21 00:03	29° \cap 11'04	
minimum elong	2981 Dec 10 16:48	18° \mathcal{R} 50'55	0°43'46	desc. node	2982 Nov 21 01:52	29° \cap 18'25	
max. Earth dist.	2981 Dec 12 20:17	22° \mathcal{R} 13'19	1.45184 AU		2982 Nov 21 12:11	0° \mathcal{R}	
	2981 Dec 17 19:23	0° \mathcal{Z}		max. Earth dist.	2982 Nov 25 14:55	6° \mathcal{R} 34'25	1.44619 AU
evening rise	2981 Dec 27 04:33	14° \mathcal{Z} 40'41		evening rise	2982 Dec 06 17:14	23° \mathcal{R} 53'06	
	2982 Jan 06 00:14	0° \approx			2982 Dec 10 16:59	0° \mathcal{Z}	
greatest brilliancy	2982 Jan 07 07:44	2° \approx 01'07	-0.8m		2982 Dec 31 15:59	0° \approx	
evening max el	2982 Jan 19 18:01	18° \approx 58'07	19°19'25	evening max el	2983 Jan 02 21:40	2° \approx 28'33	20°16'22
asc. node	2982 Jan 23 12:08	22° \approx 02'21		asc. node	2983 Jan 10 09:08	7° \approx 04'49	
retrograde	2982 Jan 26 20:22	23° \approx 02'17		retrograde	2983 Jan 10 18:22	7° \approx 05'38	
evening set	2982 Jan 30 06:53	21° \approx 53'09		evening set	2983 Jan 14 13:10	5° \approx 42'28	
inferior conj	2982 Feb 04 19:34	16° \approx 00'53	3°17'50	inferior conj	2983 Jan 19 22:48	29° \mathcal{Z} 36'59	2°49'07
minimum elong	2982 Feb 04 17:26	16° \approx 07'49	3°17'27	minimum elong	2983 Jan 19 20:15	29° \mathcal{Z} 45'35	2°48'28
min. Earth dist.	2982 Feb 06 03:22	14° \approx 18'11	0.66284 AU		2983 Jan 19 16:00	30° \mathcal{R} \mathcal{Z}	
morning rise	2982 Feb 10 03:43	9° \approx 48'00		min. Earth dist.	2983 Jan 20 16:57	28° \mathcal{Z} 35'31	0.67212 AU
direct	2982 Feb 16 10:55	7° \approx 00'46		morning rise	2983 Jan 25 03:08	23° \mathcal{Z} 23'21	
morning max el	2982 Mar 01 01:09	14° \approx 29'05	26°06'38	direct	2983 Jan 30 20:50	20° \mathcal{Z} 49'59	
desc. node	2982 Mar 02 04:01	15° \approx 38'31		morning max el	2983 Feb 11 09:51	27° \mathcal{Z} 43'44	24°45'41
	2982 Mar 13 17:23	0° \mathcal{H}			2983 Feb 13 13:24	0° \approx	
	2982 Apr 01 17:28	0° \mathcal{Y}		desc. node	2983 Feb 17 01:04	4° \approx 03'10	
morning set	2982 Apr 06 05:29	8° \mathcal{Y} 08'54			2983 Mar 07 10:07	0° \mathcal{H}	
max. Earth dist.	2982 Apr 10 04:17	15° \mathcal{Y} 38'58	1.35317 AU	morning set	2983 Mar 19 11:48	20° \mathcal{H} 06'46	
				max. Earth dist.	2983 Mar 23 03:12	26° \mathcal{H} 40'26	1.37197 AU
					2983 Mar 24 22:19	0° \mathcal{Y}	
superior conj	2982 Apr 15 07:35	25° \mathcal{Y} 52'03	-1°00'39				
minimum elong	2982 Apr 15 10:43	26° \mathcal{Y} 08'03	1°00'05	superior conj	2983 Mar 29 17:20	9° \mathcal{Y} 09'02	-1°27'28
	2982 Apr 17 08:02	0° \mathcal{Z}		minimum elong	2983 Mar 29 21:37	9° \mathcal{Y} 29'55	1°26'53
asc. node	2982 Apr 21 11:28	8° \mathcal{Z} 34'30		evening rise	2983 Apr 07 05:16	26° \mathcal{Y} 03'56	
evening rise	2982 Apr 23 03:05	11° \mathcal{Z} 58'52		asc. node	2983 Apr 08 08:29	28° \mathcal{Y} 19'25	
	2982 May 02 14:51	0° \cap			2983 Apr 09 04:51	0° \mathcal{Z}	
evening max el	2982 May 11 11:55	11° \cap 49'37	20°26'25	evening max el	2983 Apr 24 03:26	23° \mathcal{Z} 30'57	19°21'50
retrograde	2982 May 22 10:38	17° \cap 09'26		retrograde	2983 May 03 09:09	27° \mathcal{Z} 59'45	
evening set	2982 May 24 11:17	16° \cap 59'13		evening set	2983 May 05 09:59	27° \mathcal{Z} 47'40	
desc. node	2982 May 29 03:15	15° \cap 27'38		inferior conj	2983 May 13 21:46	23° \mathcal{Z} 40'17	0°36'26
inferior conj	2982 Jun 02 15:36	13° \cap 01'14	-1°19'31	minimum elong	2983 May 13 23:17	23° \mathcal{Z} 37'48	0°35'54
minimum elong	2982 Jun 02 11:51	13° \cap 06'42	1°18'09	desc. node	2983 May 16 00:15	22° \mathcal{Z} 17'23	
min. Earth dist.	2982 Jun 04 00:33	12° \cap 13'19	0.55036 AU	min. Earth dist.	2983 May 16 15:16	21° \mathcal{Z} 53'19	0.56057 AU
morning rise	2982 Jun 11 11:23	8° \cap 49'18		morning rise	2983 May 22 09:39	18° \mathcal{Z} 54'56	
direct	2982 Jun 15 06:16	8° \cap 18'22		direct	2983 May 27 03:07	18° \mathcal{Z} 03'51	
morning max el	2982 Jun 28 16:25	14° \cap 49'13	23°27'00	morning max el	2983 Jun 10 06:44	25° \mathcal{Z} 15'01	25°07'57
	2982 Jul 10 12:23	0° \mathcal{Z}			2983 Jun 14 17:01	0° \cap	
asc. node	2982 Jul 18 10:41	14° \mathcal{Z} 20'09			2983 Jul 03 07:40	0° \mathcal{Z}	
morning set	2982 Jul 22 05:26	22° \mathcal{Z} 05'40		asc. node	2983 Jul 05 07:44	4° \mathcal{Z} 05'27	
	2982 Jul 25 22:11	0° Ω		morning set	2983 Jul 06 17:12	7° \mathcal{Z} 00'44	
superior conj	2982 Jul 29 06:24	7° Ω 12'45	1°32'21	superior conj	2983 Jul 13 16:16	22° \mathcal{Z} 06'31	1°17'54
minimum elong	2982 Jul 29 04:20	7° Ω 01'37	1°32'08	minimum elong	2983 Jul 13 13:53	21° \mathcal{Z} 53'33	1°17'33
max. Earth dist.	2982 Jul 31 17:08	12° Ω 25'58	1.33530 AU				

max. Earth dist.	2983 Jul 14 23:08	24°☿54'54	1.32662 AU	superior conj	2984 Jun 27 03:51	7°☿02'53	0°59'10
	2983 Jul 17 07:40	0°♌		minimum elong	2984 Jun 27 01:40	6°☿50'50	0°58'47
evening rise	2983 Jul 20 19:47	7°♌21'28		max. Earth dist.	2984 Jun 27 09:55	7°☿36'15	1.32195 AU
	2983 Aug 01 22:04	0°♍		evening rise	2984 Jul 04 01:44	22°☿01'02	
desc. node	2983 Aug 11 23:36	15°♍17'39			2984 Jul 07 23:39	0°♌	
evening max el	2983 Aug 22 06:28	27°♍15'08	27°22'47		2984 Jul 26 03:05	0°♍	
	2983 Aug 25 10:29	0°♎		desc. node	2984 Jul 28 20:36	3°♍26'32	
retrograde	2983 Sep 05 01:13	4°♎31'15		evening max el	2984 Aug 03 10:39	9°♍28'23	26°50'51
evening set	2983 Sep 12 05:58	2°♎01'49		retrograde	2984 Aug 17 09:02	16°♍40'31	
	2983 Sep 14 20:15	30°♏♍		evening set	2984 Aug 24 06:57	14°♍36'21	
min. Earth dist.	2983 Sep 15 20:20	29°♏06'12	0.62549 AU	min. Earth dist.	2984 Aug 28 00:47	11°♍58'08	0.60558 AU
inferior conj	2983 Sep 18 17:33	26°♏22'12	-3°46'24	inferior conj	2984 Aug 31 06:16	9°♍17'01	-4°33'29
minimum elong	2983 Sep 18 23:08	26°♏08'55	3°44'50	minimum elong	2984 Aug 31 11:21	9°♍06'23	4°32'34
morning rise	2983 Sep 25 17:52	21°♏15'37		morning rise	2984 Sep 07 17:39	4°♍31'36	
direct	2983 Sep 28 03:49	20°♏49'18		direct	2984 Sep 10 03:01	4°♍09'31	
asc. node	2983 Oct 01 06:54	21°♏34'45		asc. node	2984 Sep 17 03:58	7°♍29'52	
morning max el	2983 Oct 04 22:02	24°♏16'27	17°51'24	morning max el	2984 Sep 17 10:50	7°♍46'13	18°05'42
	2983 Oct 09 13:13	0°♎			2984 Oct 01 18:10	0°♎	
morning set	2983 Oct 20 23:48	19°♎18'37		morning set	2984 Oct 03 06:24	2°♎48'48	
	2983 Oct 27 00:43	0°♏					
superior conj	2983 Nov 01 06:18	9°♏00'18	0°45'06	superior conj	2984 Oct 13 01:08	20°♎48'11	1°15'35
minimum elong	2983 Nov 01 10:12	9°♏16'48	0°44'33	minimum elong	2984 Oct 13 05:20	21°♎06'55	1°15'06
desc. node	2983 Nov 07 22:53	20°♏05'47			2984 Oct 18 07:24	0°♏	
max. Earth dist.	2983 Nov 08 06:02	20°♏34'43	1.43394 AU	max. Earth dist.	2984 Oct 20 16:24	4°♏01'28	1.41662 AU
	2983 Nov 14 03:52	0°♐		desc. node	2984 Oct 24 19:55	10°♏52'06	
evening rise	2983 Nov 16 03:02	3°♐04'07		evening rise	2984 Oct 26 02:15	12°♏54'37	
	2983 Dec 04 04:56	0°♑			2984 Nov 06 03:24	0°♐	
evening max el	2983 Dec 16 19:49	16°♑00'11	21°25'43	evening max el	2984 Nov 28 13:01	29°♐34'27	22°43'09
retrograde	2983 Dec 25 15:53	21°♑15'11			2984 Nov 28 23:16	0°♑	
asc. node	2983 Dec 28 06:09	20°♑38'16		retrograde	2984 Dec 08 11:16	5°♑28'07	
evening set	2983 Dec 29 20:47	19°♑36'43		evening set	2984 Dec 13 04:06	3°♑33'14	
inferior conj	2984 Jan 04 05:12	13°♑21'12	2°11'48	asc. node	2984 Dec 14 03:11	2°♑40'45	
minimum elong	2984 Jan 04 02:47	13°♑29'36	2°11'00		2984 Dec 16 10:58	30°♒♐	
min. Earth dist.	2984 Jan 04 11:11	13°♑00'29	0.67751 AU	inferior conj	2984 Dec 18 12:51	27°♐11'18	1°27'26
morning rise	2984 Jan 09 08:35	7°♑08'39		minimum elong	2984 Dec 18 11:00	27°♐17'43	1°26'43
direct	2984 Jan 14 11:30	4°♑55'24		min. Earth dist.	2984 Dec 18 07:41	27°♐29'12	0.67922 AU
morning max el	2984 Jan 24 18:44	11°♑02'57	23°17'07	morning rise	2984 Dec 23 17:46	21°♐01'46	
desc. node	2984 Feb 03 22:06	23°♑13'08		direct	2984 Dec 28 05:59	19°♐11'19	
	2984 Feb 08 19:57	0°♒		morning max el	2985 Jan 06 07:22	24°♐29'48	21°50'31
	2984 Feb 28 05:34	0°♓			2985 Jan 11 04:19	0°♑	
morning set	2984 Feb 28 17:34	0°♓50'16		desc. node	2985 Jan 20 19:08	12°♑55'56	
max. Earth dist.	2984 Mar 03 21:45	7°♓58'19	1.39341 AU		2985 Feb 01 06:45	0°♒	
				morning set	2985 Feb 07 18:26	10°♒10'54	
superior conj	2984 Mar 11 12:46	21°♓40'48	-1°49'54	max. Earth dist.	2985 Feb 13 20:29	20°♒06'57	1.41473 AU
minimum elong	2984 Mar 11 17:07	22°♓01'00	1°49'31		2985 Feb 19 16:04	0°♓	
	2984 Mar 15 22:45	0°♔		superior conj	2985 Feb 21 13:06	3°♓16'37	-2°03'58
evening rise	2984 Mar 20 23:07	9°♔39'12		minimum elong	2985 Feb 21 15:25	3°♓26'49	2°03'53
asc. node	2984 Mar 25 05:30	17°♔46'16		evening rise	2985 Mar 04 05:16	22°♓37'27	
	2984 Apr 01 10:55	0°♕			2985 Mar 08 05:41	0°♔	
evening max el	2984 Apr 06 05:00	5°♕49'17	18°37'13	asc. node	2985 Mar 12 02:32	6°♔49'24	
retrograde	2984 Apr 14 01:08	9°♕39'45		evening max el	2985 Mar 20 13:27	18°♔36'59	18°12'35
evening set	2984 Apr 16 07:56	9°♕21'21		retrograde	2985 Mar 27 11:49	22°♔05'58	
inferior conj	2984 Apr 23 23:55	4°♕55'46	2°07'16	evening set	2985 Mar 30 00:55	21°♔38'33	
minimum elong	2984 Apr 24 03:42	4°♕48'30	2°06'11	inferior conj	2985 Apr 05 23:12	16°♔51'54	3°05'02
min. Earth dist.	2984 Apr 27 09:05	2°♕21'38	0.57800 AU	minimum elong	2985 Apr 06 02:24	16°♔44'44	3°04'25
	2984 May 01 01:57	30°♖♔		min. Earth dist.	2985 Apr 09 08:09	13°♔52'31	0.59918 AU
morning rise	2984 May 01 20:20	29°♔37'02		morning rise	2985 Apr 13 01:34	11°♔08'13	
desc. node	2984 May 01 21:17	29°♔35'55		desc. node	2985 Apr 18 18:19	9°♔11'17	
direct	2984 May 07 14:14	28°♔14'09		direct	2985 Apr 19 13:48	9°♔09'27	
	2984 May 14 05:34	0°♕		morning max el	2985 May 03 21:27	16°♔59'32	27°30'33
morning max el	2984 May 21 23:08	5°♕50'31	26°33'45		2985 May 14 15:18	0°♕	
	2984 Jun 08 18:07	0°♖			2985 Jun 01 06:46	0°♖	
morning set	2984 Jun 20 03:45	21°♖50'28		morning set	2985 Jun 04 11:24	6°♖29'31	
asc. node	2984 Jun 21 04:47	24°♖03'05		asc. node	2985 Jun 08 01:51	14°♖08'19	
	2984 Jun 23 22:53	0°☿		max. Earth dist.	2985 Jun 10 21:53	20°♖19'29	1.32122 AU

superior conj	2985 Jun 11 15:27	21° Π 56'03	0°36'50	superior conj	2986 May 27 01:20	6° Π 40'36	0°11'35
minimum elong	2985 Jun 11 13:53	21° Π 47'27	0°36'31	minimum elong	2986 May 27 00:47	6° Π 37'39	0°11'28
	2985 Jun 15 07:32	0° \mathfrak{S}		behind sun begin	2986 May 26 21:12	6° Π 18'06	
evening rise	2985 Jun 18 11:33	6° \mathfrak{S} 49'39		behind sun end	2986 May 27 04:23	6° Π 57'12	
	2985 Jun 30 14:22	0° Ω		evening rise	2986 Jun 02 23:14	21° Π 40'42	
desc. node	2985 Jul 15 17:37	20° Ω 19'48			2986 Jun 06 23:51	0° \mathfrak{S}	
evening max el	2985 Jul 16 07:40	20° Ω 53'50	25°47'00		2986 Jun 26 07:40	0° Ω	
retrograde	2985 Jul 30 07:23	28° Ω 01'49		evening max el	2986 Jun 27 22:15	1° Ω 37'25	24°19'34
evening set	2985 Aug 05 09:58	26° Ω 33'22		desc. node	2986 Jul 02 14:39	5° Ω 27'48	
min. Earth dist.	2985 Aug 09 19:53	23° Ω 55'42	0.58496 AU	retrograde	2986 Jul 11 18:40	8° Ω 36'57	
inferior conj	2985 Aug 13 01:24	21° Ω 36'01	-5°01'38	evening set	2986 Jul 16 13:11	7° Ω 46'07	
minimum elong	2985 Aug 13 03:27	21° Ω 32'17	5°01'31	min. Earth dist.	2986 Jul 22 09:02	4° Ω 50'57	0.56638 AU
morning rise	2985 Aug 20 23:11	17° Ω 13'38		inferior conj	2986 Jul 25 00:28	3° Ω 11'10	-4°56'57
direct	2985 Aug 23 10:58	16° Ω 53'39		minimum elong	2986 Jul 24 21:03	3° Ω 16'35	4°56'39
morning max el	2985 Aug 31 17:08	20° Ω 49'40	18°40'25		2986 Jul 30 18:30	30° \mathfrak{R} \mathfrak{S}	
asc. node	2985 Sep 04 01:03	24° Ω 34'27		morning rise	2986 Aug 02 07:34	29° \mathfrak{S} 09'33	
	2985 Sep 07 18:32	0° \mathfrak{M}		direct	2986 Aug 04 23:51	28° \mathfrak{S} 50'22	
morning set	2985 Sep 17 00:29	16° \mathfrak{M} 51'57			2986 Aug 09 21:57	0° Ω	
	2985 Sep 23 19:07	0° \mathfrak{L}		morning max el	2986 Aug 14 14:00	3° Ω 17'57	19°36'33
				asc. node	2986 Aug 21 22:07	12° Ω 33'47	
superior conj	2985 Sep 25 17:18	3° \mathfrak{L} 38'55	1°34'38		2986 Aug 31 10:50	0° \mathfrak{M}	
minimum elong	2985 Sep 25 20:07	3° \mathfrak{L} 52'10	1°34'26	morning set	2986 Sep 01 02:29	1° \mathfrak{M} 18'24	
max. Earth dist.	2985 Oct 02 22:21	16° \mathfrak{L} 46'34	1.39640 AU				
evening rise	2985 Oct 06 23:54	23° \mathfrak{L} 46'50		superior conj	2986 Sep 09 01:21	17° \mathfrak{M} 17'16	1°43'41
	2985 Oct 10 17:54	0° \mathfrak{M}		minimum elong	2986 Sep 09 02:22	17° \mathfrak{M} 22'18	1°43'40
desc. node	2985 Oct 11 16:56	1° \mathfrak{M} 33'27		max. Earth dist.	2986 Sep 15 02:39	28° \mathfrak{M} 53'49	1.37582 AU
	2985 Oct 30 23:50	0° \mathfrak{J}			2986 Sep 15 16:57	0° \mathfrak{L}	
evening max el	2985 Nov 11 02:41	13° \mathfrak{J} 11'35	24°03'05	evening rise	2986 Sep 18 20:52	5° \mathfrak{L} 44'05	
retrograde	2985 Nov 22 03:17	19° \mathfrak{J} 40'15		desc. node	2986 Sep 28 13:59	22° \mathfrak{L} 05'52	
evening set	2985 Nov 27 09:31	17° \mathfrak{J} 28'43			2986 Oct 03 16:32	0° \mathfrak{M}	
asc. node	2985 Dec 01 00:15	13° \mathfrak{J} 30'11		evening max el	2986 Oct 24 14:50	26° \mathfrak{M} 51'45	25°18'43
min. Earth dist.	2985 Dec 02 04:03	11° \mathfrak{J} 57'57	0.67744 AU		2986 Oct 28 03:16	0° \mathfrak{J}	
inferior conj	2985 Dec 02 19:57	11° \mathfrak{J} 04'12	0°37'12	retrograde	2986 Nov 05 15:03	3° \mathfrak{J} 47'29	
minimum elong	2985 Dec 02 19:04	11° \mathfrak{J} 07'10	0°36'49	evening set	2986 Nov 11 11:21	1° \mathfrak{J} 20'48	
morning rise	2985 Dec 08 04:38	4° \mathfrak{J} 59'46			2986 Nov 12 21:24	30° \mathfrak{R} \mathfrak{M}	
direct	2985 Dec 12 03:06	3° \mathfrak{J} 31'47		min. Earth dist.	2986 Nov 15 22:00	26° \mathfrak{M} 24'33	0.67226 AU
morning max el	2985 Dec 20 03:00	8° \mathfrak{J} 07'28	20°32'49	inferior conj	2986 Nov 17 00:42	24° \mathfrak{M} 57'58	-0°17'43
	2986 Jan 05 15:14	0° \mathfrak{Z}		minimum elong	2986 Nov 17 01:09	24° \mathfrak{M} 56'30	0°17'32
desc. node	2986 Jan 07 16:11	3° \mathfrak{Z} 01'51		asc. node	2986 Nov 17 21:18	23° \mathfrak{M} 51'37	
morning set	2986 Jan 17 19:27	18° \mathfrak{Z} 28'20		morning rise	2986 Nov 22 15:12	19° \mathfrak{M} 00'49	
	2986 Jan 25 03:11	0° \approx		direct	2986 Nov 26 01:34	17° \mathfrak{M} 52'54	
max. Earth dist.	2986 Jan 27 02:59	3° \approx 11'55	1.43293 AU	morning max el	2986 Dec 03 06:34	21° \mathfrak{M} 56'14	19°28'18
					2986 Dec 09 21:10	0° \mathfrak{J}	
superior conj	2986 Feb 02 13:11	13° \approx 44'11	-2°04'40	greatest brilliancy	2986 Dec 16 13:48	9° \mathfrak{J} 42'11	-0.7m
minimum elong	2986 Feb 02 10:43	13° \approx 33'53	2°04'36	desc. node	2986 Dec 25 13:12	23° \mathfrak{J} 24'34	
	2986 Feb 12 01:29	0° \mathfrak{H}		morning set	2986 Dec 27 17:24	26° \mathfrak{J} 46'15	
evening rise	2986 Feb 14 19:29	4° \mathfrak{H} 49'26			2986 Dec 29 19:25	0° \mathfrak{Z}	
asc. node	2986 Feb 26 23:34	25° \mathfrak{H} 20'57		max. Earth dist.	2987 Jan 09 16:08	17° \mathfrak{Z} 00'03	1.44572 AU
	2986 Mar 02 10:53	0° \mathfrak{Y}					
evening max el	2986 Mar 04 01:24	1° \mathfrak{Y} 44'51	18°07'36	superior conj	2987 Jan 13 11:14	23° \mathfrak{Z} 02'18	-1°47'13
retrograde	2986 Mar 10 13:30	5° \mathfrak{Y} 07'59		minimum elong	2987 Jan 13 03:20	22° \mathfrak{Z} 30'44	1°46'37
evening set	2986 Mar 13 08:09	4° \mathfrak{Y} 30'12			2987 Jan 17 18:58	0° \approx	
	2986 Mar 19 02:03	30° \mathfrak{R} \mathfrak{H}		evening rise	2987 Jan 27 13:28	16° \approx 07'09	
inferior conj	2986 Mar 19 16:35	29° \mathfrak{H} 23'00	3°33'41		2987 Feb 04 21:23	0° \mathfrak{H}	
minimum elong	2986 Mar 19 18:00	29° \mathfrak{H} 19'21	3°33'33	asc. node	2987 Feb 13 20:36	13° \mathfrak{H} 10'58	
min. Earth dist.	2986 Mar 22 15:14	26° \mathfrak{H} 23'13	0.62059 AU	evening max el	2987 Feb 15 13:56	15° \mathfrak{H} 05'03	18°21'34
morning rise	2986 Mar 26 02:27	23° \mathfrak{H} 23'48		retrograde	2987 Feb 22 01:21	18° \mathfrak{H} 35'34	
direct	2986 Apr 01 23:31	20° \mathfrak{H} 54'39		evening set	2987 Feb 25 01:31	17° \mathfrak{H} 46'28	
desc. node	2986 Apr 05 15:22	21° \mathfrak{H} 32'52		inferior conj	2987 Mar 02 23:53	12° \mathfrak{H} 20'22	3°39'57
morning max el	2986 Apr 16 02:05	28° \mathfrak{H} 51'29	27°50'51	minimum elong	2987 Mar 02 23:31	12° \mathfrak{H} 21'24	3°39'56
	2986 Apr 17 04:57	0° \mathfrak{Y}		min. Earth dist.	2987 Mar 05 07:52	9° \mathfrak{H} 40'49	0.63987 AU
	2986 May 08 11:54	0° \mathfrak{B}		morning rise	2987 Mar 08 20:46	6° \mathfrak{H} 12'42	
morning set	2986 May 19 14:11	20° \mathfrak{B} 51'46		direct	2987 Mar 15 17:38	3° \mathfrak{H} 25'20	
	2986 May 23 23:09	0° Π		desc. node	2987 Mar 23 12:24	6° \mathfrak{H} 17'40	
max. Earth dist.	2986 May 25 07:05	2° Π 51'33	1.32448 AU	morning max el	2987 Mar 29 10:46	11° \mathfrak{H} 20'58	27°34'09
asc. node	2986 May 25 22:54	4° Π 17'02			2987 Apr 13 05:17	0° \mathfrak{Y}	
					2987 Apr 30 22:13	0° \mathfrak{B}	

morning set	2987 May 03 09:29	4°♄48'23		2988 Mar 16 00:27	0°♄	
max. Earth dist.	2987 May 08 09:21	14°♄58'29	1.33201 AU	2988 Apr 05 14:48	0°♄	
				morning set	2988 Apr 15 18:04	18°♄09'34
superior conj	2987 May 11 07:35	21°♄09'48	-0°15'50	max. Earth dist.	2988 Apr 20 01:05	26°♄32'18 1.34413 AU
minimum elong	2987 May 11 08:23	21°♄14'02	0°15'40		2988 Apr 21 18:18	0°♄
behind sun begin	2987 May 11 07:22	21°♄08'39				
behind sun end	2987 May 11 09:23	21°♄19'25		superior conj	2988 Apr 24 08:07	5°♄17'30 -0°44'19
asc. node	2987 May 12 19:55	24°♄24'28		minimum elong	2988 Apr 24 10:25	5°♄29'26 0°43'52
	2987 May 15 10:18	0°♄		asc. node	2988 Apr 28 16:57	14°♄26'49
evening rise	2987 May 18 10:49	6°♄26'58		evening rise	2988 May 01 20:28	21°♄02'36
	2987 May 31 00:32	0°♄			2988 May 06 06:41	0°♄
evening max el	2987 Jun 09 12:08	12°♄03'24	22°43'00	evening max el	2988 May 21 09:16	22°♄45'06 21°12'06
desc. node	2987 Jun 19 11:40	18°♄14'12		retrograde	2988 Jun 02 07:14	28°♄34'54
retrograde	2987 Jun 22 17:41	18°♄38'24		evening set	2988 Jun 04 13:33	28°♄23'02
evening set	2987 Jun 26 00:10	18°♄14'55		desc. node	2988 Jun 05 08:39	28°♄13'28
min. Earth dist.	2987 Jul 03 20:17	14°♄48'20	0.55327 AU	inferior conj	2988 Jun 13 22:41	24°♄24'31 -2°27'54
inferior conj	2987 Jul 05 04:45	14°♄01'51	-4°05'38	minimum elong	2988 Jun 13 15:58	24°♄33'57 2°25'39
minimum elong	2987 Jul 04 20:51	14°♄13'11	4°03'49	min. Earth dist.	2988 Jun 14 08:04	24°♄11'19 0.54868 AU
morning rise	2987 Jul 13 19:49	10°♄10'30		morning rise	2988 Jun 22 18:38	20°♄25'27
direct	2987 Jul 16 18:21	9°♄50'30		direct	2988 Jun 26 04:07	20°♄00'29
morning max el	2987 Jul 27 23:23	15°♄02'44	20°53'43	morning max el	2988 Jul 08 21:42	26°♄03'53 22°28'08
	2987 Aug 08 02:09	0°♄			2988 Jul 12 15:13	0°♄
asc. node	2987 Aug 08 19:10	1°♄14'23		asc. node	2988 Jul 25 16:12	20°♄26'19
morning set	2987 Aug 16 09:40	15°♄59'51			2988 Jul 30 10:17	0°♄
	2987 Aug 23 03:21	0°♄		morning set	2988 Jul 30 19:59	0°♄50'41
superior conj	2987 Aug 23 20:35	1°♄28'44	1°44'28	superior conj	2988 Aug 06 23:32	16°♄02'53 1°38'26
minimum elong	2987 Aug 23 20:02	1°♄25'53	1°44'27	minimum elong	2988 Aug 06 21:52	15°♄54'04 1°38'18
max. Earth dist.	2987 Aug 28 10:55	10°♄43'51	1.35724 AU	max. Earth dist.	2988 Aug 10 03:48	22°♄42'29 1.34218 AU
evening rise	2987 Sep 01 13:30	18°♄36'56			2988 Aug 13 18:10	0°♄
	2987 Sep 07 21:34	0°♄		evening rise	2988 Aug 14 21:19	2°♄13'37
desc. node	2987 Sep 15 11:01	12°♄23'37			2988 Aug 30 19:15	0°♄
	2987 Sep 27 20:21	0°♄		desc. node	2988 Sep 01 08:02	2°♄19'52
evening max el	2987 Oct 07 03:02	10°♄31'44	26°22'48	evening max el	2988 Sep 18 15:28	24°♄03'34 27°07'38
retrograde	2987 Oct 19 21:57	17°♄43'41			2988 Sep 26 15:51	0°♄
evening set	2987 Oct 26 07:43	15°♄05'46		retrograde	2988 Oct 01 23:07	1°♄21'17
min. Earth dist.	2987 Oct 30 11:11	10°♄45'12	0.66358 AU		2988 Oct 06 20:30	30°♄
inferior conj	2987 Nov 01 01:14	8°♄49'17	-1°16'00	evening set	2988 Oct 08 20:17	28°♄38'47
minimum elong	2987 Nov 01 03:16	8°♄43'02	1°15'08	min. Earth dist.	2988 Oct 12 17:16	24°♄54'05 0.65143 AU
asc. node	2987 Nov 04 18:20	4°♄41'52		inferior conj	2988 Oct 14 19:21	22°♄33'29 -2°15'53
morning rise	2987 Nov 06 23:23	3°♄02'05		minimum elong	2988 Oct 14 23:05	22°♄23'00 2°14'27
direct	2987 Nov 09 23:46	2°♄10'32		morning rise	2988 Oct 21 02:46	16°♄59'15
morning max el	2987 Nov 16 16:53	5°♄52'17	18°39'19	asc. node	2988 Oct 21 15:23	16°♄45'38
	2987 Dec 03 14:22	0°♄		direct	2988 Oct 23 19:33	16°♄20'13
morning set	2987 Dec 07 12:01	6°♄11'19		morning max el	2988 Oct 30 07:37	19°♄49'38 18°06'55
desc. node	2987 Dec 12 10:15	13°♄59'20			2988 Nov 07 00:04	0°♄
	2987 Dec 22 14:33	0°♄		morning set	2988 Nov 17 12:02	17°♄04'29
					2988 Nov 25 09:24	0°♄
superior conj	2987 Dec 23 15:19	1°♄37'10	-1°11'07	desc. node	2988 Nov 28 07:18	4°♄41'41
minimum elong	2987 Dec 23 06:56	1°♄04'17	1°10'08			
max. Earth dist.	2987 Dec 23 09:41	1°♄15'04	1.45170 AU	superior conj	2988 Dec 01 20:31	10°♄21'42 -0°23'57
evening rise	2988 Jan 08 08:18	26°♄27'37		minimum elong	2988 Dec 01 17:29	10°♄09'42 0°23'31
	2988 Jan 10 13:25	0°♄		max. Earth dist.	2988 Dec 05 04:53	15°♄39'26 1.45031 AU
greatest brilliancy	2988 Jan 16 09:40	9°♄19'54	-0.8m		2988 Dec 14 09:10	0°♄
evening max el	2988 Jan 30 00:35	28°♄32'31	18°53'31	evening rise	2988 Dec 18 05:32	5°♄58'16
asc. node	2988 Jan 31 17:37	0°♄07'37		greatest brilliancy	2988 Dec 31 07:15	26°♄00'54 -0.7m
	2988 Jan 31 13:58	0°♄			2989 Jan 02 23:55	0°♄
retrograde	2988 Feb 05 19:27	2°♄21'29		evening max el	2989 Jan 12 07:18	12°♄02'50 19°41'57
evening set	2988 Feb 09 01:48	1°♄20'06		asc. node	2989 Jan 17 14:39	15°♄56'09
	2988 Feb 10 19:24	30°♄		retrograde	2989 Jan 19 16:38	16°♄19'46
inferior conj	2988 Feb 14 17:18	25°♄36'59	3°29'37	evening set	2989 Jan 23 06:30	15°♄04'51
minimum elong	2988 Feb 14 15:38	25°♄42'09	3°29'25	inferior conj	2989 Jan 28 17:40	9°♄06'53 3°06'47
min. Earth dist.	2988 Feb 16 09:46	23°♄31'13	0.65565 AU	minimum elong	2989 Jan 28 15:17	9°♄14'45 3°06'17
morning rise	2988 Feb 20 05:04	19°♄25'15		min. Earth dist.	2989 Jan 29 19:32	7°♄41'29 0.66736 AU
direct	2988 Feb 26 18:47	16°♄33'59		morning rise	2989 Feb 02 23:51	2°♄53'38
desc. node	2988 Mar 09 09:25	22°♄50'45		direct	2989 Feb 09 01:43	0°♄11'03
morning max el	2988 Mar 10 20:37	24°♄16'32	26°45'36	morning max el	2989 Feb 21 05:39	7°♄25'52 25°33'40

desc. node	2989 Feb 24 06:27	10° \approx 41'14		morning max el	2990 Feb 03 14:08	20° \approx 42'47	24°08'20
	2989 Mar 10 20:07	0° \approx		desc. node	2990 Feb 11 03:31	29° \approx 27'12	
morning set	2989 Mar 29 11:31	0° \approx 41'48			2990 Feb 11 13:47	0° \approx	
	2989 Mar 29 02:19	0° \approx			2990 Mar 04 01:35	0° \approx	
max. Earth dist.	2989 Apr 02 05:16	7° \approx 38'36	1.36079 AU	morning set	2990 Mar 11 08:09	12° \approx 09'57	
				max. Earth dist.	2990 Mar 15 01:49	18° \approx 44'43	1.38103 AU
					2990 Mar 21 04:17	0° \approx	
superior conj	2989 Apr 08 00:12	18° \approx 55'32	-1°12'22				
minimum elong	2989 Apr 08 03:55	19° \approx 14'03	1°11'46				
	2989 Apr 13 11:11	0° \approx		superior conj	2990 Mar 22 04:27	1° \approx 54'57	-1°37'44
asc. node	2989 Apr 15 13:58	4° \approx 19'22		minimum elong	2990 Mar 22 08:57	2° \approx 16'27	1°37'12
evening rise	2989 Apr 16 02:02	5° \approx 20'42		evening rise	2990 Mar 31 01:04	19° \approx 14'31	
	2989 Apr 30 04:17	0° \approx		asc. node	2990 Apr 02 11:00	23° \approx 57'32	
evening max el	2989 May 03 17:58	4° \approx 02'42	19°56'30		2990 Apr 05 15:39	0° \approx	
retrograde	2989 May 13 22:30	8° \approx 59'14		evening max el	2990 Apr 16 14:04	16° \approx 00'23	19°00'15
evening set	2989 May 15 22:12	8° \approx 48'46		retrograde	2990 Apr 25 04:04	20° \approx 11'07	
desc. node	2989 May 23 05:38	5° \approx 46'30		evening set	2990 Apr 27 07:15	19° \approx 56'41	
inferior conj	2989 May 24 20:25	4° \approx 48'28	-0°28'29	inferior conj	2990 May 05 10:32	15° \approx 41'46	1°18'58
minimum elong	2989 May 24 19:07	4° \approx 50'28	0°27'59	minimum elong	2990 May 05 13:27	15° \approx 36'39	1°18'01
min. Earth dist.	2989 May 26 21:09	3° \approx 34'43	0.55372 AU	min. Earth dist.	2990 May 08 12:41	13° \approx 32'52	0.56733 AU
morning rise	2989 Jun 02 14:02	0° \approx 23'35		desc. node	2990 May 10 02:40	12° \approx 31'49	
	2989 Jun 04 04:40	30° \approx 8		morning rise	2990 May 13 16:32	10° \approx 41'43	
direct	2989 Jun 06 18:08	29° \approx 45'25		direct	2990 May 18 20:34	9° \approx 38'32	
	2989 Jun 09 07:08	0° \approx		morning max el	2990 Jun 02 03:36	17° \approx 01'23	25°47'23
morning max el	2989 Jun 20 12:59	6° \approx 34'42	24°10'49		2990 Jun 12 19:00	0° \approx	
	2989 Jul 07 08:15	0° \approx		asc. node	2990 Jun 29 10:17	29° \approx 52'57	
asc. node	2989 Jul 12 13:15	10° \approx 01'35			2990 Jun 29 11:37	0° \approx	
morning set	2989 Jul 15 07:42	15° \approx 45'57		morning set	2990 Jun 29 19:10	0° \approx 39'46	
	2989 Jul 21 21:58	0° \approx					
				superior conj	2990 Jul 06 18:18	15° \approx 47'17	1°10'25
superior conj	2989 Jul 22 07:30	0° \approx 51'39	1°26'47	minimum elong	2990 Jul 06 15:57	15° \approx 34'23	1°10'03
minimum elong	2989 Jul 22 05:14	0° \approx 39'24	1°26'31	max. Earth dist.	2990 Jul 07 14:31	17° \approx 38'11	1.32414 AU
max. Earth dist.	2989 Jul 24 05:51	5° \approx 01'40	1.33113 AU		2990 Jul 13 08:36	0° \approx	
evening rise	2989 Jul 29 16:14	16° \approx 02'48		evening rise	2990 Jul 13 18:56	0° \approx 53'50	
	2989 Aug 05 18:18	0° \approx			2990 Jul 29 18:17	0° \approx	
desc. node	2989 Aug 19 05:01	21° \approx 45'38		desc. node	2990 Aug 06 02:01	10° \approx 27'39	
	2989 Aug 25 10:45	0° \approx		evening max el	2990 Aug 14 09:59	19° \approx 52'56	27°13'18
evening max el	2989 Sep 01 02:40	7° \approx 15'33	27°26'12	retrograde	2990 Aug 28 06:07	27° \approx 07'04	
retrograde	2989 Sep 14 18:04	14° \approx 32'26		evening set	2990 Sep 04 09:35	24° \approx 46'34	
evening set	2989 Sep 21 22:12	11° \approx 54'52		min. Earth dist.	2990 Sep 08 00:14	22° \approx 00'31	0.61725 AU
min. Earth dist.	2989 Sep 25 14:03	8° \approx 43'27	0.63587 AU	inferior conj	2990 Sep 11 01:44	19° \approx 15'41	-4°07'58
inferior conj	2989 Sep 28 04:34	6° \approx 05'08	-3°14'40	minimum elong	2990 Sep 11 07:21	19° \approx 03'00	4°06'37
minimum elong	2989 Sep 28 09:43	5° \approx 52'05	3°12'59	morning rise	2990 Sep 18 06:48	14° \approx 17'56	
morning rise	2989 Oct 04 22:30	0° \approx 47'24		direct	2990 Sep 20 16:15	13° \approx 53'39	
direct	2989 Oct 07 10:16	0° \approx 17'13		asc. node	2990 Sep 25 09:30	15° \approx 31'28	
asc. node	2989 Oct 08 12:25	0° \approx 23'07		morning max el	2990 Sep 27 15:06	17° \approx 23'22	17°55'11
morning max el	2989 Oct 14 00:02	3° \approx 42'39	17°51'55		2990 Oct 06 14:20	0° \approx	
morning set	2989 Oct 30 14:12	29° \approx 13'51		morning set	2990 Oct 13 12:01	12° \approx 18'52	
	2989 Oct 31 00:50	0° \approx			2990 Oct 23 09:10	0° \approx	
superior conj	2989 Nov 11 21:47	20° \approx 07'48	0°22'20	superior conj	2990 Oct 24 02:00	1° \approx 12'58	0°59'27
minimum elong	2989 Nov 12 00:07	20° \approx 17'24	0°21'59	minimum elong	2990 Oct 24 06:20	1° \approx 31'44	0°58'54
desc. node	2989 Nov 15 04:21	25° \approx 28'28		max. Earth dist.	2990 Oct 31 12:26	13° \approx 44'54	1.42706 AU
	2989 Nov 17 23:52	0° \approx		desc. node	2990 Nov 02 01:22	16° \approx 15'46	
max. Earth dist.	2989 Nov 17 22:51	29° \approx 55'58	1.44175 AU	evening rise	2990 Nov 07 04:46	24° \approx 28'57	
evening rise	2989 Nov 27 15:03	15° \approx 05'49			2990 Nov 10 17:47	0° \approx	
	2989 Dec 07 10:54	0° \approx			2990 Dec 01 12:04	0° \approx	
evening max el	2989 Dec 26 08:45	25° \approx 34'28	20°44'31	evening max el	2990 Dec 09 04:34	9° \approx 06'42	21°57'55
	2990 Jan 01 07:54	0° \approx		retrograde	2990 Dec 18 11:32	14° \approx 38'31	
retrograde	2990 Jan 03 14:38	0° \approx 26'46		asc. node	2990 Dec 22 08:43	13° \approx 16'58	
asc. node	2990 Jan 04 11:40	0° \approx 22'31		evening set	2990 Dec 22 21:21	12° \approx 52'56	
	2990 Jan 05 18:53	30° \approx 8		inferior conj	2990 Dec 28 05:42	6° \approx 34'00	1°53'48
evening set	2990 Jan 07 13:37	28° \approx 57'03		minimum elong	2990 Dec 28 03:28	6° \approx 41'46	1°52'59
inferior conj	2990 Jan 12 22:31	22° \approx 46'55	2°34'14	min. Earth dist.	2990 Dec 28 06:45	6° \approx 30'22	0.67865 AU
minimum elong	2990 Jan 12 19:58	22° \approx 55'39	2°33'29	morning rise	2991 Jan 02 09:27	0° \approx 22'37	
min. Earth dist.	2990 Jan 13 11:17	22° \approx 03'13	0.67496 AU		2991 Jan 02 20:29	30° \approx 8	
morning rise	2990 Jan 18 02:09	16° \approx 33'48		direct	2991 Jan 07 05:57	28° \approx 19'13	
direct	2990 Jan 23 13:41	14° \approx 30'8'35			2991 Jan 12 03:17	0° \approx	

morning max el	2991 Jan 17 00:23	4° Z 05'47	22°39'40	direct	2991 Dec 22 01:40	12° Z 37'09	
desc. node	2991 Jan 29 00:35	18° Z 52'39		morning max el	2991 Dec 30 15:43	17° Z 36'56	21°16'03
	2991 Feb 05 18:47	0° \approx			2992 Jan 09 17:27	0° Z	
morning set	2991 Feb 20 02:01	22° \approx 19'29		desc. node	2992 Jan 15 21:38	8° Z 46'09	
	2991 Feb 24 16:11	0° X			2992 Jan 29 21:51	0° \approx	
max. Earth dist.	2991 Feb 24 21:45	0° X 23'42	1.40265 AU	morning set	2992 Jan 30 15:12	1° \approx 08'14	
				max. Earth dist.	2992 Feb 06 23:01	12° \approx 54'29	1.42291 AU
superior conj	2991 Mar 04 16:27	14° X 05'01	-1°57'09				
minimum elong	2991 Mar 04 20:16	14° X 22'20	1°56'54	superior conj	2992 Feb 14 06:59	25° \approx 12'48	-2°06'13
	2991 Mar 13 05:33	0° Y		minimum elong	2992 Feb 14 07:36	25° \approx 15'24	2°06'13
evening rise	2991 Mar 14 14:31	2° Y 36'14			2992 Feb 17 01:17	0° X	
asc. node	2991 Mar 20 08:02	13° Y 15'57		evening rise	2992 Feb 25 14:26	15° X 15'56	
evening max el	2991 Mar 30 18:59	28° Y 33'04	18°24'15		2992 Mar 04 22:08	0° Y	
	2991 Apr 01 10:51	0° Z		asc. node	2992 Mar 06 05:05	2° Y 07'05	
retrograde	2991 Apr 07 04:38	2° Z 12'47		evening max el	2992 Mar 13 05:20	11° Y 30'47	18°08'09
evening set	2991 Apr 09 14:00	1° Z 50'56		retrograde	2992 Mar 19 22:09	14° Y 55'32	
	2991 Apr 13 07:49	30° Z 00'00		evening set	2992 Mar 22 13:36	14° Y 23'58	
inferior conj	2991 Apr 16 22:03	27° Y 16'24	2°35'42	inferior conj	2992 Mar 29 05:33	9° Y 28'46	3°20'17
minimum elong	2991 Apr 17 01:50	27° Y 08'37	2°34'45	minimum elong	2992 Mar 29 08:03	9° Y 22'49	3°19'55
min. Earth dist.	2991 Apr 20 08:40	24° Y 28'23	0.58672 AU	min. Earth dist.	2992 Apr 01 11:08	6° Y 25'58	0.60840 AU
morning rise	2991 Apr 24 10:46	21° Y 45'25		morning rise	2992 Apr 05 00:31	3° Y 37'20	
desc. node	2991 Apr 26 23:43	20° Y 40'59		direct	2992 Apr 11 17:46	1° Y 24'06	
direct	2991 Apr 30 13:16	20° Y 07'21		desc. node	2992 Apr 12 20:46	1° Y 27'41	
morning max el	2991 May 14 22:39	27° Y 51'13	27°02'06	morning max el	2992 Apr 25 23:47	9° Y 18'42	27°43'42
	2991 May 17 00:45	0° Z			2992 May 11 22:14	0° Z	
	2991 Jun 06 08:57	0° II		morning set	2992 May 28 10:36	29° Z 59'44	
morning set	2991 Jun 14 04:46	15° II 26'42			2992 May 28 10:39	0° II	
asc. node	2991 Jun 16 07:21	19° II 55'04		asc. node	2992 Jun 02 04:23	10° II 02'29	
	2991 Jun 20 22:12	0° III		max. Earth dist.	2992 Jun 03 13:22	13° II 01'54	1.32210 AU
superior conj	2991 Jun 21 06:09	0° III 43'50	0°50'06	superior conj	2992 Jun 04 17:15	15° II 34'26	0°26'27
minimum elong	2991 Jun 21 04:11	0° III 32'57	0°49'44	minimum elong	2992 Jun 04 16:04	15° II 28'00	0°26'12
max. Earth dist.	2991 Jun 21 02:17	0° III 22'33	1.32113 AU		2992 Jun 11 08:11	0° III	
evening rise	2991 Jun 28 02:50	15° III 38'37		evening rise	2992 Jun 11 13:40	0° III 29'11	
	2991 Jul 05 07:21	0° IV			2992 Jun 27 17:21	0° IV	
desc. node	2991 Jul 23 23:01	28° IV 07'51		evening max el	2992 Jul 08 04:54	12° IV 51'35	25°11'54
	2991 Jul 25 16:33	0° V		desc. node	2992 Jul 09 20:02	14° IV 20'39	
evening max el	2991 Jul 27 11:00	1° V 45'31	26°27'10	retrograde	2992 Jul 22 04:37	19° IV 57'26	
retrograde	2991 Aug 10 10:22	8° V 56'50		evening set	2992 Jul 27 18:31	18° IV 45'44	
evening set	2991 Aug 17 01:47	7° V 06'34		min. Earth dist.	2992 Aug 01 16:42	16° IV 02'16	0.57659 AU
min. Earth dist.	2991 Aug 21 00:19	4° V 31'00	0.59676 AU	inferior conj	2992 Aug 04 18:05	13° IV 57'31	-5°04'38
inferior conj	2991 Aug 24 07:20	1° V 56'16	-4°48'30	minimum elong	2992 Aug 04 18:01	13° IV 57'39	5°04'37
minimum elong	2991 Aug 24 11:30	1° V 48'04	4°47'57	morning rise	2992 Aug 12 19:58	9° IV 44'27	
	2991 Aug 26 20:52	30° IV 00'00		direct	2992 Aug 15 09:14	9° IV 25'04	
morning rise	2991 Aug 31 23:21	27° IV 20'59		morning max el	2992 Aug 24 04:14	13° IV 33'26	19°01'36
direct	2991 Sep 03 09:19	27° IV 00'07		asc. node	2992 Aug 29 03:38	19° IV 27'50	
	2991 Sep 10 06:31	0° V			2992 Sep 04 13:01	0° V	
morning max el	2991 Sep 11 01:35	0° V 43'35	18°17'56	morning set	2992 Sep 09 21:46	10° V 18'07	
asc. node	2991 Sep 12 06:34	1° V 58'10					
morning set	2991 Sep 26 23:56	26° V 04'02		superior conj	2992 Sep 18 06:07	26° V 42'20	1°39'36
	2991 Sep 29 01:32	0° VI		minimum elong	2992 Sep 18 08:10	26° V 52'13	1°39'29
					2992 Sep 19 23:34	0° VI	
superior conj	2991 Oct 06 06:35	13° VI 29'35	1°24'59	max. Earth dist.	2992 Sep 25 00:27	9° VI 17'57	1.38752 AU
minimum elong	2991 Oct 06 10:19	13° VI 46'36	1°24'38	evening rise	2992 Sep 28 20:44	16° VI 04'37	
max. Earth dist.	2991 Oct 13 20:11	26° VI 52'07	1.40817 AU	desc. node	2992 Oct 05 19:23	27° VI 38'36	
	2991 Oct 15 16:32	0° VII			2992 Oct 07 06:52	0° VII	
evening rise	2991 Oct 18 12:51	4° VII 43'38			2992 Oct 28 14:24	0° Z	
desc. node	2991 Oct 19 22:23	7° VII 00'20		evening max el	2992 Nov 03 08:42	6° Z 20'22	24°36'21
	2991 Nov 03 23:44	0° Z		retrograde	2992 Nov 14 20:05	13° Z 01'56	
evening max el	2991 Nov 21 19:50	22° Z 41'14	23°17'17	evening set	2992 Nov 20 08:07	10° Z 43'57	
retrograde	2991 Dec 02 05:45	28° Z 51'21		min. Earth dist.	2992 Nov 24 23:17	5° Z 27'27	0.67558 AU
evening set	2991 Dec 07 04:03	26° Z 49'20		asc. node	2992 Nov 25 02:50	5° Z 15'38	
asc. node	2991 Dec 09 05:47	24° Z 44'27		inferior conj	2992 Nov 25 19:39	4° Z 19'35	0°14'24
min. Earth dist.	2991 Dec 12 03:34	20° Z 59'07	0.67879 AU	minimum elong	2992 Nov 25 19:17	4° Z 20'46	0°14'16
inferior conj	2991 Dec 12 13:20	20° Z 25'32	1°06'47	transit middle	2992 Nov 25 19:17	4° Z 20'46	0°14'16
minimum elong	2991 Dec 12 11:51	20° Z 30'39	1°06'10	transit begin	2992 Nov 25 17:59	4° Z 25'08	
morning rise	2991 Dec 17 19:34	14° Z 17'44		transit end	2992 Nov 25 20:36	4° Z 16'24	

	2992 Nov 29 08:12	30° \mathbb{M}		inferior conj	2993 Nov 09 22:48	18° \mathbb{M} 12'44	-0°42'08
morning rise	2992 Dec 01 06:32	28° \mathbb{M} 17'41		minimum elong	2993 Nov 09 23:55	18° \mathbb{M} 09'15	0°41'39
direct	2992 Dec 04 23:39	26° \mathbb{M} 58'30		asc. node	2993 Nov 11 23:52	15° \mathbb{M} 42'23	
	2992 Dec 11 05:01	0° \mathbb{A}		morning rise	2993 Nov 15 16:20	12° \mathbb{M} 19'24	
morning max el	2992 Dec 12 14:38	1° \mathbb{A} 19'17	20°03'34	direct	2993 Nov 18 22:18	11° \mathbb{M} 18'43	
desc. node	2993 Jan 01 18:40	29° \mathbb{A} 00'10		morning max el	2993 Nov 25 21:12	15° \mathbb{M} 11'18	19°05'30
	2993 Jan 02 10:26	0° \mathbb{B}			2993 Dec 07 01:03	0° \mathbb{A}	
morning set	2993 Jan 08 11:35	9° \mathbb{B} 16'03		morning set	2993 Dec 18 16:05	17° \mathbb{A} 56'33	
max. Earth dist.	2993 Jan 19 08:19	26° \mathbb{B} 19'01	1.43911 AU	desc. node	2993 Dec 19 15:40	19° \mathbb{A} 28'29	
	2993 Jan 21 15:23	0° \approx			2993 Dec 26 09:26	0° \mathbb{B}	
				max. Earth dist.	2994 Jan 02 00:05	10° \mathbb{B} 22'12	1.44920 AU
superior conj	2993 Jan 24 19:52	5° \approx 10'29	-1°59'41				
minimum elong	2993 Jan 24 14:53	4° \approx 50'06	1°59'27	superior conj	2994 Jan 04 08:26	14° \mathbb{B} 04'33	-1°33'56
evening rise	2993 Feb 06 20:31	27° \approx 05'29		minimum elong	2994 Jan 03 23:27	13° \mathbb{B} 29'01	1°33'04
	2993 Feb 08 13:01	0° \mathbb{H}			2994 Jan 14 07:19	0° \approx	
asc. node	2993 Feb 21 02:07	20° \mathbb{H} 22'36		evening rise	2994 Jan 19 04:43	7° \approx 58'20	
evening max el	2993 Feb 24 17:58	24° \mathbb{H} 45'20	18°11'19		2994 Feb 01 21:49	0° \mathbb{H}	
retrograde	2993 Mar 03 04:31	28° \mathbb{H} 09'42		asc. node	2994 Feb 07 23:09	7° \mathbb{H} 51'24	
evening set	2993 Mar 06 01:35	27° \mathbb{H} 27'07		evening max el	2994 Feb 08 05:57	8° \mathbb{H} 08'58	18°33'03
inferior conj	2993 Mar 12 05:19	22° \mathbb{H} 11'53	3°38'38	retrograde	2994 Feb 14 19:27	11° \mathbb{H} 45'51	
minimum elong	2993 Mar 12 05:56	22° \mathbb{H} 10'12	3°38'36	evening set	2994 Feb 17 22:14	10° \mathbb{H} 51'27	
min. Earth dist.	2993 Mar 14 22:05	19° \mathbb{H} 18'34	0.62922 AU	inferior conj	2994 Feb 23 17:17	5° \mathbb{H} 17'41	3°37'17
morning rise	2993 Mar 18 09:13	16° \mathbb{H} 08'40		minimum elong	2994 Feb 23 16:18	5° \mathbb{H} 20'36	3°37'14
direct	2993 Mar 25 07:25	13° \mathbb{H} 29'54		min. Earth dist.	2994 Feb 25 18:32	2° \mathbb{H} 51'39	0.64707 AU
desc. node	2993 Mar 30 17:49	14° \mathbb{H} 54'19			2994 Feb 28 10:47	30° \mathbb{R} \approx	
morning max el	2993 Apr 08 06:12	21° \mathbb{H} 26'54	27°47'57	morning rise	2994 Mar 01 09:52	29° \approx 08'07	
	2993 Apr 15 16:58	0° \mathbb{Y}		direct	2994 Mar 08 04:25	26° \approx 17'41	
	2993 May 05 00:26	0° \mathbb{B}			2994 Mar 16 23:55	0° \mathbb{H}	
morning set	2993 May 12 10:31	14° \mathbb{B} 11'58		desc. node	2994 Mar 17 14:51	0° \mathbb{H} 29'08	
max. Earth dist.	2993 May 17 19:58	25° \mathbb{B} 24'09	1.32720 AU	morning max el	2994 Mar 21 15:37	4° \mathbb{H} 08'30	27°17'03
	2993 May 19 23:21	0° \mathbb{I}			2994 Apr 10 04:48	0° \mathbb{Y}	
				morning set	2994 Apr 26 01:44	27° \mathbb{Y} 55'00	
superior conj	2993 May 20 01:50	0° \mathbb{I} 13'29	0°00'11		2994 Apr 27 03:14	0° \mathbb{B}	
minimum elong	2993 May 20 01:49	0° \mathbb{I} 13'24	0°00'10	max. Earth dist.	2994 Apr 30 18:19	7° \mathbb{B} 18'41	1.33662 AU
behind sun begin	2993 May 19 20:36	29° \mathbb{B} 45'13					
behind sun end	2993 May 20 07:02	0° \mathbb{I} 41'37		superior conj	2994 May 04 05:57	14° \mathbb{B} 34'39	-0°27'50
asc. node	2993 May 20 01:25	0° \mathbb{I} 11'13		minimum elong	2994 May 04 07:22	14° \mathbb{B} 42'09	0°27'33
evening rise	2993 May 27 01:32	15° \mathbb{I} 19'09		asc. node	2994 May 06 22:26	20° \mathbb{B} 17'17	
	2993 Jun 03 09:27	0° \mathbb{E}		evening rise	2994 May 11 12:33	0° \mathbb{I} 02'19	
evening max el	2993 Jun 19 18:28	23° \mathbb{E} 24'36	23°38'37		2994 May 11 12:07	0° \mathbb{I}	
desc. node	2993 Jun 26 17:03	28° \mathbb{E} 33'04			2994 May 28 21:13	0° \mathbb{E}	
	2993 Jun 30 20:01	0° \mathbb{Q}		evening max el	2994 Jun 01 10:36	3° \mathbb{E} 54'11	22°02'54
retrograde	2993 Jul 03 10:15	0° \mathbb{Q} 15'18		desc. node	2994 Jun 13 14:04	10° \mathbb{E} 11'10	
	2993 Jul 06 01:11	30° \mathbb{R} \mathbb{E}		retrograde	2994 Jun 14 04:14	10° \mathbb{E} 11'58	
evening set	2993 Jul 07 13:00	29° \mathbb{E} 38'10		evening set	2994 Jun 16 22:37	9° \mathbb{E} 54'56	
min. Earth dist.	2993 Jul 14 04:41	26° \mathbb{E} 31'09	0.55999 AU	min. Earth dist.	2994 Jun 25 15:39	6° \mathbb{E} 11'20	0.55021 AU
inferior conj	2993 Jul 16 08:39	25° \mathbb{E} 13'14	-4°41'22	inferior conj	2994 Jun 26 07:07	5° \mathbb{E} 49'37	-3°28'56
minimum elong	2993 Jul 16 02:52	25° \mathbb{E} 21'57	4°40'30	minimum elong	2994 Jun 25 22:56	6° \mathbb{E} 01'07	3°26'38
morning rise	2993 Jul 24 19:16	21° \mathbb{E} 17'25		morning rise	2994 Jul 05 00:55	1° \mathbb{E} 57'52	
direct	2993 Jul 27 14:06	20° \mathbb{E} 58'00		direct	2994 Jul 08 03:31	1° \mathbb{E} 36'26	
morning max el	2993 Aug 06 20:11	25° \mathbb{E} 43'21	20°06'53	morning max el	2994 Jul 20 00:36	7° \mathbb{E} 09'28	21°32'10
	2993 Aug 10 17:40	0° \mathbb{Q}		asc. node	2994 Aug 02 21:41	26° \mathbb{E} 41'47	
asc. node	2993 Aug 16 00:40	7° \mathbb{Q} 46'11			2994 Aug 04 15:48	0° \mathbb{Q}	
morning set	2993 Aug 25 02:15	24° \mathbb{Q} 51'58		morning set	2994 Aug 09 11:03	9° \mathbb{Q} 39'05	
	2993 Aug 27 14:31	0° \mathbb{M}					
				superior conj	2994 Aug 16 18:19	24° \mathbb{Q} 59'05	1°42'40
superior conj	2993 Sep 01 19:23	10° \mathbb{M} 36'02	1°44'56	minimum elong	2994 Aug 16 17:14	24° \mathbb{Q} 53'26	1°42'36
minimum elong	2993 Sep 01 19:41	10° \mathbb{M} 37'34	1°44'56		2994 Aug 19 04:37	0° \mathbb{M}	
max. Earth dist.	2993 Sep 07 06:04	21° \mathbb{M} 16'13	1.36760 AU	max. Earth dist.	2994 Aug 20 18:03	3° \mathbb{M} 09'40	1.35039 AU
evening rise	2993 Sep 11 02:37	28° \mathbb{M} 27'07		evening rise	2994 Aug 25 02:17	11° \mathbb{M} 40'37	
	2993 Sep 11 23:08	0° \mathbb{L}			2994 Sep 04 09:10	0° \mathbb{L}	
desc. node	2993 Sep 22 16:24	18° \mathbb{L} 05'37		desc. node	2994 Sep 09 13:25	8° \mathbb{L} 15'41	
	2993 Sep 30 14:31	0° \mathbb{M}			2994 Sep 25 20:18	0° \mathbb{M}	
evening max el	2993 Oct 16 20:56	20° \mathbb{M} 01'51	25°47'57	evening max el	2994 Sep 29 09:18	3° \mathbb{M} 39'48	26°44'31
retrograde	2993 Oct 29 05:37	27° \mathbb{M} 05'02		retrograde	2994 Oct 12 09:57	10° \mathbb{M} 54'46	
evening set	2993 Nov 04 07:48	24° \mathbb{M} 33'10		evening set	2994 Oct 19 01:09	8° \mathbb{M} 13'44	
min. Earth dist.	2993 Nov 08 15:27	19° \mathbb{M} 51'58	0.66900 AU	min. Earth dist.	2994 Oct 23 01:43	4° \mathbb{M} 08'48	0.65893 AU

inferior conj	1994 Oct 24 20:53	2°♍01'39	-1°41'20	inferior conj	1995 Oct 08 11:33	15°♌41'10	-2°41'09
minimum elong	1994 Oct 24 23:39	1°♍53'30	1°40'12	minimum elong	1995 Oct 08 15:56	15°♌29'19	2°39'34
	1994 Oct 26 15:13	30°♎♌		morning rise	1995 Oct 14 23:22	10°♌13'49	
asc. node	1994 Oct 29 20:53	26°♌59'58		asc. node	1995 Oct 16 17:55	9°♌42'36	
morning rise	1994 Oct 30 22:50	26°♌19'49		direct	1995 Oct 17 13:36	9°♌39'06	
direct	1994 Nov 02 19:45	25°♌34'02		morning max el	1995 Oct 24 01:39	13°♌05'51	17°58'22
morning max el	1994 Nov 09 09:45	29°♌09'02	18°23'28		1995 Nov 04 20:04	0°♍	
	1994 Nov 10 05:16	0°♍		morning set	1995 Nov 10 10:53	9°♍26'56	
morning set	1994 Nov 28 23:02	27°♍59'13			1995 Nov 22 20:55	0°♎	
	1994 Nov 30 05:02	0°♎		desc. node	1995 Nov 23 09:45	0°♎51'47	
desc. node	1994 Dec 06 12:42	10°♎06'58					
				superior conj	1995 Nov 23 22:17	1°♎42'12	-0°03'35
superior conj	1994 Dec 14 10:09	22°♎35'23	-0°51'43	minimum elong	1995 Nov 23 21:52	1°♎40'30	0°03'32
minimum elong	1994 Dec 14 03:37	22°♎09'44	0°50'53	behind sun begin	1995 Nov 23 11:41	0°♎59'33	
max. Earth dist.	1994 Dec 15 19:02	24°♎44'33	1.45204 AU	behind sun end	1995 Nov 24 08:02	2°♎21'24	
	1994 Dec 19 03:30	0°♏		max. Earth dist.	1995 Nov 28 13:45	9°♎06'40	1.44745 AU
evening rise	1994 Dec 30 13:44	17°♏55'42		evening rise	1995 Dec 10 04:18	27°♎12'10	
	1995 Jan 07 06:07	0°♐			1995 Dec 11 23:57	0°♏	
greatest brilliancy	1995 Jan 09 23:23	4°♐13'50	-0.8m	greatest brilliancy	1995 Dec 24 14:43	19°♏04'20	-0.6m
evening max el	1995 Jan 22 15:02	21°♐37'15	19°12'13		1996 Jan 01 10:21	0°♐	
asc. node	1995 Jan 25 20:10	24°♐20'39		evening max el	1996 Jan 05 19:32	5°♐08'05	20°07'02
retrograde	1995 Jan 29 15:17	25°♐37'21		asc. node	1996 Jan 12 17:11	9°♐36'03	
evening set	1995 Feb 02 00:39	24°♐30'17		retrograde	1996 Jan 13 13:11	9°♐39'53	
inferior conj	1995 Feb 07 13:59	18°♐40'15	3°21'17	evening set	1996 Jan 17 06:36	8°♐18'58	
minimum elong	1995 Feb 07 11:57	18°♐46'47	3°20'58	inferior conj	1996 Jan 22 16:34	2°♐15'21	2°54'05
min. Earth dist.	1995 Feb 08 23:59	16°♐51'24	0.66108 AU	minimum elong	1996 Jan 22 14:03	2°♐23'50	2°53'27
morning rise	1995 Feb 12 22:57	12°♐27'29		min. Earth dist.	1996 Jan 23 12:42	1°♐07'34	0.67101 AU
direct	1995 Feb 19 07:54	9°♐38'55			1996 Jan 24 09:06	30°♎♏	
morning max el	1995 Mar 04 01:29	17°♐11'41	26°17'24	morning rise	1996 Jan 27 21:17	26°♏01'41	
desc. node	1995 Mar 04 11:53	17°♐38'10		direct	1996 Feb 02 17:10	23°♏25'35	
	1995 Mar 14 18:14	0°♑			1996 Feb 14 00:05	0°♐	
	1995 Apr 03 02:56	0°♑		morning max el	1996 Feb 14 10:16	0°♐25'27	24°58'24
morning set	1995 Apr 09 04:29	10°♑56'59		desc. node	1996 Feb 19 08:56	5°♐54'49	
max. Earth dist.	1995 Apr 13 05:21	18°♑40'11	1.35064 AU		1996 Mar 07 16:38	0°♑	
				morning set	1996 Mar 21 13:53	23°♑04'24	
superior conj	1995 Apr 18 03:13	28°♑30'20	-0°56'23	max. Earth dist.	1996 Mar 25 05:17	29°♑41'10	1.36898 AU
minimum elong	1995 Apr 18 06:09	28°♑45'19	0°55'51		1996 Mar 25 09:21	0°♑	
	1995 Apr 18 20:43	0°♒					
asc. node	1995 Apr 23 19:28	10°♒15'57		superior conj	1996 Mar 31 14:45	11°♑53'04	-1°23'38
evening rise	1995 Apr 25 20:45	14°♒31'17		minimum elong	1996 Mar 31 18:54	12°♑13'29	1°23'01
	1995 May 03 20:13	0°♓		evening rise	1996 Apr 08 23:53	28°♑39'50	
evening max el	1995 May 14 12:17	14°♓49'10	20°37'46	asc. node	1996 Apr 09 16:31	0°♒03'04	
retrograde	1995 May 25 17:23	20°♓17'06			1996 Apr 09 15:54	0°♒	
evening set	1995 May 27 18:52	20°♓06'45		evening max el	1996 Apr 26 02:04	26°♒24'11	19°30'12
desc. node	1995 May 31 11:05	19°♓01'58			1996 May 01 02:57	0°♓	
inferior conj	1995 Jun 06 00:52	16°♓09'06	-1°37'52	retrograde	1996 May 05 13:31	0°♓59'42	
minimum elong	1995 Jun 05 20:16	16°♓15'44	1°36'12	evening set	1996 May 07 13:47	0°♓48'12	
min. Earth dist.	1995 Jun 07 03:52	15°♓30'16	0.54959 AU		1996 May 10 06:15	30°♎♓	
morning rise	1995 Jun 14 20:58	12°♓01'01		inferior conj	1996 May 16 04:28	26°♓43'07	0°20'05
direct	1995 Jun 18 13:02	11°♓32'00		minimum elong	1996 May 16 05:20	26°♓41'44	0°19'47
morning max el	1995 Jul 01 19:28	17°♓56'09	23°11'34	desc. node	1996 May 17 08:06	25°♓58'36	
	1995 Jul 11 14:41	0°♔		min. Earth dist.	1996 May 18 18:13	25°♓04'22	0.55855 AU
asc. node	1995 Jul 20 18:43	16°♔04'35		morning rise	1996 May 24 18:05	22°♓03'07	
morning set	1995 Jul 24 22:12	24°♔32'45		direct	1996 May 29 08:01	21°♓15'41	
	1995 Jul 27 11:43	0°♕		morning max el	1996 Jun 12 09:46	28°♓21'51	24°53'31
					1996 Jun 14 01:05	0°♓	
superior conj	1995 Jul 31 23:43	9°♕40'51	1°34'07		1996 Jul 03 18:51	0°♔	
minimum elong	1995 Jul 31 21:45	9°♕30'15	1°33'56	asc. node	1996 Jul 06 15:47	5°♔47'12	
max. Earth dist.	1995 Aug 03 14:52	15°♕16'10	1.33697 AU	morning set	1996 Jul 08 10:00	9°♔27'48	
evening rise	1995 Aug 08 15:17	25°♕32'28					
	1995 Aug 10 22:01	0°♕		superior conj	1996 Jul 15 09:10	24°♔33'25	1°20'23
desc. node	1995 Aug 27 10:26	28°♕00'27		minimum elong	1996 Jul 15 06:49	24°♔20'33	1°20'04
	1995 Aug 28 19:23	0°♖		max. Earth dist.	1996 Jul 16 19:52	27°♔42'09	1.32766 AU
evening max el	1995 Sep 11 21:13	17°♖04'00	27°18'55		1996 Jul 17 21:23	0°♕	
retrograde	1995 Sep 25 08:43	24°♖22'33		evening rise	1996 Jul 22 13:53	9°♕52'02	
evening set	1995 Oct 02 09:37	21°♖40'26			1996 Aug 02 05:46	0°♕	
min. Earth dist.	1995 Oct 06 04:00	18°♖10'42	0.64525 AU	desc. node	1996 Aug 13 07:26	17°♕09'25	

	2996 Aug 24 05:55	0°♄		evening max el	2997 Aug 06 12:17	12°♊23'27	26°57'48
evening max el	2996 Aug 24 07:03	0°♄02'41	27°24'44	retrograde	2997 Aug 20 10:04	19°♊35'47	
retrograde	2996 Sep 07 01:07	7°♄19'05		evening set	2997 Aug 27 09:49	17°♊27'04	
evening set	2996 Sep 14 05:55	4°♄47'16		min. Earth dist.	2997 Aug 31 02:31	14°♊47'21	0.60865 AU
min. Earth dist.	2996 Sep 17 20:33	1°♄47'45	0.62826 AU	inferior conj	2997 Sep 03 07:09	12°♊04'48	-4°27'20
	2996 Sep 19 17:25	30°♋♊		minimum elong	2997 Sep 03 12:28	11°♊53'29	4°26'17
inferior conj	2996 Sep 20 16:03	29°♊04'50	-3°38'19	morning rise	2997 Sep 10 16:55	7°♊16'00	
minimum elong	2996 Sep 20 21:34	28°♊51'30	3°36'43	direct	2997 Sep 13 02:14	6°♊53'23	
morning rise	2996 Sep 27 14:43	23°♊55'10		asc. node	2997 Sep 19 12:05	9°♊43'24	
direct	2996 Sep 30 01:00	23°♊27'59		morning max el	2997 Sep 20 07:24	10°♊27'58	18°02'18
asc. node	2996 Oct 02 15:00	23°♊59'32			2997 Oct 03 03:55	0°♄	
morning max el	2996 Oct 06 17:53	26°♊54'32	17°50'55	morning set	2997 Oct 06 02:45	5°♄26'52	
	2996 Oct 09 10:48	0°♄					
morning set	2996 Oct 22 22:12	22°♄02'01		superior conj	2997 Oct 16 02:07	23°♄39'16	1°11'42
	2996 Oct 27 10:41	0°♌		minimum elong	2997 Oct 16 06:25	23°♄58'18	1°11'12
					2997 Oct 19 17:21	0°♌	
superior conj	2996 Nov 03 10:53	12°♌01'30	0°39'27	max. Earth dist.	2997 Oct 23 17:07	6°♌45'38	1.41948 AU
minimum elong	2996 Nov 03 14:29	12°♌16'37	0°38'57	desc. node	2997 Oct 27 03:48	12°♌25'54	
desc. node	2996 Nov 09 06:47	21°♌39'02		evening rise	2997 Oct 29 09:56	16°♌04'03	
max. Earth dist.	2996 Nov 10 05:35	23°♌11'20	1.43613 AU		2997 Nov 07 09:35	0°♊	
	2996 Nov 14 12:01	0°♊			2997 Nov 29 10:08	0°♊	
evening rise	2996 Nov 18 13:27	6°♊20'52		evening max el	2997 Dec 01 12:29	2°♊13'54	22°31'17
	2996 Dec 04 08:23	0°♊		retrograde	2997 Dec 11 06:39	8°♊01'45	
evening max el	2996 Dec 18 18:35	18°♊39'58	21°14'47	evening set	2997 Dec 15 21:39	6°♊09'13	
retrograde	2996 Dec 27 10:51	23°♊48'53		asc. node	2997 Dec 16 11:18	5°♊39'25	
asc. node	2996 Dec 29 14:15	23°♊23'39		inferior conj	2997 Dec 21 06:16	29°♊47'59	1°34'34
evening set	2996 Dec 31 14:10	22°♊12'46		minimum elong	2997 Dec 21 04:18	29°♊54'48	1°33'49
inferior conj	2997 Jan 05 22:40	15°♊58'40	2°17'58	min. Earth dist.	2997 Dec 21 02:40	0°♊00'27	0.67923 AU
minimum elong	2997 Jan 05 20:11	16°♊07'12	2°17'09		2997 Dec 21 02:48	30°♋♊	
min. Earth dist.	2997 Jan 06 06:23	15°♊31'58	0.67697 AU	morning rise	2997 Dec 26 10:49	23°♊38'01	
morning rise	2997 Jan 11 02:01	9°♊45'56		direct	2997 Dec 31 01:10	21°♊44'12	
direct	2997 Jan 16 07:14	7°♊29'23		morning max el	2998 Jan 09 06:47	27°♊09'34	22°02'57
morning max el	2997 Jan 26 18:52	13°♊43'51	23°30'23		2998 Jan 11 22:04	0°♊	
desc. node	2997 Feb 05 06:00	24°♊59'02		desc. node	2998 Jan 23 03:03	14°♊37'30	
	2997 Feb 08 22:42	0°♌			2998 Feb 02 13:28	0°♌	
	2997 Feb 28 14:23	0°♋		morning set	2998 Feb 11 04:55	13°♌32'50	
morning set	2997 Mar 02 23:43	4°♋00'04		max. Earth dist.	2998 Feb 16 22:05	22°♌56'03	1.41170 AU
max. Earth dist.	2997 Mar 07 00:05	10°♋55'00	1.39021 AU		2998 Feb 21 01:48	0°♋	
superior conj	2997 Mar 14 12:39	24°♋32'41	-1°46'57	superior conj	2998 Feb 24 16:09	6°♋17'37	-2°02'34
minimum elong	2997 Mar 14 17:06	24°♋53'30	1°46'30	minimum elong	2998 Feb 24 18:57	6°♋30'04	2°02'28
	2997 Mar 17 09:57	0°♎		evening rise	2998 Mar 07 03:21	25°♋24'53	
evening rise	2997 Mar 23 19:13	12°♎20'18			2998 Mar 09 14:42	0°♎	
asc. node	2997 Mar 27 13:34	19°♎33'15		asc. node	2998 Mar 14 10:36	8°♎40'42	
	2997 Apr 02 11:53	0°♏		evening max el	2998 Mar 23 09:59	21°♎21'42	18°14'58
evening max el	2997 Apr 09 02:22	8°♏37'38	18°42'31	retrograde	2998 Mar 30 10:54	24°♎53'01	
retrograde	2997 Apr 17 02:39	12°♏32'40		evening set	2998 Apr 01 23:04	24°♎27'05	
evening set	2997 Apr 19 08:32	12°♏15'21		inferior conj	2998 Apr 08 23:44	19°♎43'26	2°58'17
inferior conj	2997 Apr 27 03:25	7°♏52'37	1°55'40	minimum elong	2998 Apr 09 03:08	19°♎35'58	2°57'34
minimum elong	2997 Apr 27 07:04	7°♏45'45	1°54'33	min. Earth dist.	2998 Apr 12 09:25	16°♎46'17	0.59590 AU
min. Earth dist.	2997 Apr 30 11:20	5°♏24'23	0.57511 AU	morning rise	2998 Apr 16 04:45	14°♎02'42	
desc. node	2997 May 04 05:09	3°♏04'23		desc. node	2998 Apr 21 02:12	12°♎15'40	
morning rise	2997 May 05 02:26	2°♏38'36		direct	2998 Apr 22 14:43	12°♎09'20	
direct	2997 May 10 17:00	1°♏21'00		morning max el	2998 May 06 22:59	19°♎57'53	27°24'25
morning max el	2997 May 25 01:31	8°♏54'03	26°22'39		2998 May 15 12:53	0°♏	
	2997 Jun 09 23:50	0°♐			2998 Jun 02 17:59	0°♐	
morning set	2997 Jun 22 20:53	24°♐19'00		morning set	2998 Jun 07 05:05	9°♐00'21	
asc. node	2997 Jun 23 12:52	25°♐43'32		asc. node	2998 Jun 10 09:53	15°♐48'03	
	2997 Jun 25 12:38	0°♑					
				superior conj	2998 Jun 14 08:20	24°♐24'12	0°40'27
superior conj	2997 Jun 29 20:39	9°♑30'02	1°02'15	minimum elong	2998 Jun 14 06:39	24°♐14'55	0°40'06
minimum elong	2997 Jun 29 18:24	9°♑17'40	1°01'52	max. Earth dist.	2998 Jun 13 18:23	23°♐07'26	1.32105 AU
max. Earth dist.	2997 Jun 30 06:18	10°♑23'09	1.32236 AU		2998 Jun 16 21:20	0°♑	
evening rise	2997 Jul 06 19:06	24°♑30'01		evening rise	2998 Jun 21 04:29	9°♑17'53	
	2997 Jul 09 11:21	0°♒			2998 Jul 01 20:37	0°♒	
	2997 Jul 27 00:36	0°♓		desc. node	2998 Jul 18 01:28	22°♒34'36	
desc. node	2997 Jul 31 04:26	5°♓27'59		evening max el	2998 Jul 19 10:18	23°♒55'45	25°58'18

	2998 Jul 28 04:35	0°♍			2999 Jun 08 11:15	0°♎	
retrograde	2998 Aug 02 09:54	1°♍04'40			2999 Jun 26 16:41	0°♎	
	2998 Aug 07 13:57	30°♎♎		evening max el	2999 Jul 01 01:27	4°♎43'52	24°33'31
evening set	2998 Aug 08 16:22	29°♎30'17		desc. node	2999 Jul 04 22:28	8°♎00'30	
min. Earth dist.	2998 Aug 12 22:43	26°♎53'54	0.58798 AU	retrograde	2999 Jul 14 23:06	11°♎45'43	
inferior conj	2998 Aug 16 05:05	24°♎29'40	-4°59'12	evening set	2999 Jul 19 22:54	10°♎49'41	
minimum elong	2998 Aug 16 07:48	24°♎24'39	4°58'59	min. Earth dist.	2999 Jul 25 12:30	7°♎57'57	0.56888 AU
morning rise	2998 Aug 24 01:26	20°♎04'04		inferior conj	2999 Jul 28 07:06	6°♎11'07	-5°00'26
direct	2998 Aug 26 12:42	19°♎43'53		minimum elong	2999 Jul 28 04:34	6°♎15'12	5°00'16
morning max el	2998 Sep 03 14:53	23°♎36'07	18°33'55	morning rise	2999 Aug 05 12:53	2°♎06'53	
asc. node	2998 Sep 06 09:08	26°♎38'28		direct	2999 Aug 08 04:19	1°♎47'43	
	2998 Sep 08 20:25	0°♍		morning max el	2999 Aug 17 13:17	6°♎09'55	19°26'50
morning set	2998 Sep 19 19:21	19°♍25'53		asc. node	2999 Aug 24 06:09	14°♎29'58	
	2998 Sep 25 06:42	0°♎			2999 Sep 01 22:13	0°♍	
				morning set	2999 Sep 03 20:18	3°♍48'48	
superior conj	2998 Sep 28 15:30	6°♎21'58	1°32'25				
minimum elong	2998 Sep 28 18:34	6°♎36'19	1°32'10	superior conj	2999 Sep 11 21:26	19°♍53'43	1°42'53
max. Earth dist.	2998 Oct 05 23:33	19°♎37'00	1.39950 AU	minimum elong	2999 Sep 11 22:44	20°♍00'02	1°42'50
evening rise	2998 Oct 10 04:01	26°♎46'30			2999 Sep 17 04:15	0°♎	
	2998 Oct 12 02:38	0°♍		max. Earth dist.	2999 Sep 18 03:25	1°♎47'12	1.37879 AU
desc. node	2998 Oct 14 00:48	3°♍08'17		evening rise	2999 Sep 21 21:37	8°♎34'03	
	2998 Nov 01 01:04	0°♍		desc. node	2999 Sep 30 21:49	23°♎42'04	
evening max el	2998 Nov 14 02:27	15°♍50'19	23°51'12		2999 Oct 04 22:34	0°♍	
retrograde	2998 Nov 24 23:16	22°♍14'27		evening max el	2999 Oct 27 14:38	29°♍29'56	25°08'02
evening set	2998 Nov 30 03:27	20°♍05'15			2999 Oct 28 03:02	0°♍	
asc. node	2998 Dec 03 08:21	16°♍37'50		retrograde	2999 Nov 08 11:47	6°♍22'36	
min. Earth dist.	2998 Dec 04 23:12	14°♍29'28	0.67794 AU	evening set	2999 Nov 14 05:54	3°♍58'04	
inferior conj	2998 Dec 05 13:32	13°♍40'44	0°45'08		2999 Nov 17 21:51	30°♍♍	
minimum elong	2998 Dec 05 12:29	13°♍44'18	0°44'42	min. Earth dist.	2999 Nov 18 17:40	28°♍56'30	0.67321 AU
morning rise	2998 Dec 10 21:32	7°♍35'24		inferior conj	2999 Nov 19 18:44	27°♍34'34	-0°09'09
direct	2998 Dec 14 21:54	6°♍04'20		minimum elong	2999 Nov 19 18:58	27°♍33'49	0°09'02
morning max el	2998 Dec 23 01:18	10°♍45'53	20°43'35	transit middle	2999 Nov 19 18:58	27°♍33'49	0°09'02
	2999 Jan 06 19:51	0°♎		transit begin	2999 Nov 19 16:39	27°♍41'21	
desc. node	2999 Jan 10 00:05	4°♎40'27		transit end	2999 Nov 19 21:16	27°♍26'17	
morning set	2999 Jan 21 08:33	21°♎56'55		asc. node	2999 Nov 20 05:23	26°♍59'51	
	2999 Jan 26 11:22	0°♎		morning rise	2999 Nov 25 08:14	21°♍36'06	
max. Earth dist.	2999 Jan 30 03:15	5°♎52'42	1.43048 AU	direct	2999 Nov 28 20:15	20°♍25'25	
				morning max el	2999 Dec 06 03:41	24°♍33'05	19°36'56
superior conj	2999 Feb 05 20:04	16°♎55'52	-2°05'38		2999 Dec 10 19:49	0°♍	
minimum elong	2999 Feb 05 18:28	16°♎49'07	2°05'37	greatest brilliancy	2999 Dec 19 07:51	12°♍01'48	-0.7m
	2999 Feb 13 10:50	0°♍		desc. node	2999 Dec 27 21:06	25°♍00'57	
evening rise	2999 Feb 17 20:15	7°♍44'36		morning set	2999 Dec 31 05:14	0°♎09'44	
asc. node	2999 Mar 01 07:38	27°♍17'53			2999 Dec 31 02:43	0°♎	
	2999 Mar 03 04:22	0°♍		max. Earth dist.	3000 Jan 12 15:19	19°♎34'42	1.44421 AU
evening max el	2999 Mar 06 21:36	4°♍27'17	18°07'08				
retrograde	2999 Mar 13 10:40	7°♍50'34		superior conj	3000 Jan 16 21:50	26°♎23'44	-1°51'09
evening set	2999 Mar 16 04:28	7°♍14'28		minimum elong	3000 Jan 16 14:34	25°♎54'35	1°50'38
inferior conj	2999 Mar 22 14:42	2°♍10'19	3°30'51		3000 Jan 19 03:26	0°♎	
minimum elong	2999 Mar 22 16:25	2°♍06'01	3°30'42	evening rise	3000 Jan 30 17:28	19°♎10'37	
	2999 Mar 24 18:25	30°♍♍			3000 Feb 06 03:44	0°♍	
min. Earth dist.	2999 Mar 25 15:19	29°♍08'58	0.61745 AU	asc. node	3000 Feb 16 04:40	15°♍14'55	
morning rise	2999 Mar 29 02:49	26°♍12'45		evening max el	3000 Feb 18 10:13	17°♍46'04	18°18'20
direct	2999 Apr 04 23:07	23°♍47'23		retrograde	3000 Feb 24 21:11	21°♍14'38	
desc. node	2999 Apr 07 23:14	24°♍13'08		evening set	3000 Feb 27 20:30	20°♍27'18	
	2999 Apr 17 07:00	0°♍		inferior conj	3000 Mar 05 20:09	15°♍04'04	3°40'07
morning max el	2999 Apr 19 02:50	1°♍44'08	27°50'14	minimum elong	3000 Mar 05 20:02	15°♍04'24	3°40'08
	2999 May 09 19:05	0°♎		min. Earth dist.	3000 Mar 08 06:31	12°♍20'19	0.63721 AU
morning set	2999 May 22 08:41	23°♎25'44		morning rise	3000 Mar 11 18:44	8°♍57'22	
	2999 May 25 12:25	0°♎		direct	3000 Mar 18 16:12	6°♍11'39	
max. Earth dist.	2999 May 28 04:12	5°♎41'57	1.32372 AU	desc. node	3000 Mar 25 20:17	8°♍38'21	
asc. node	2999 May 28 06:55	5°♎56'38		morning max el	3000 Apr 01 11:00	14°♍08'17	27°38'47
					3000 Apr 14 07:14	0°♍	
superior conj	2999 May 29 18:33	9°♎10'30	0°15'36		3000 May 02 09:06	0°♎	
minimum elong	2999 May 29 17:50	9°♎06'34	0°15'26	morning set	3000 May 06 05:16	7°♎26'36	
behind sun begin	2999 May 29 16:37	8°♎59'56		max. Earth dist.	3000 May 11 07:36	17°♎52'35	1.33060 AU
behind sun end	2999 May 29 19:03	9°♎13'12					
evening rise	2999 Jun 05 15:58	24°♎08'55		superior conj	3000 May 14 01:28	23°♎42'21	-0°11'34

minimum elong	3000 May 14 02:02	23° ♄ 45'25	0°11'27		3001 Apr 24 06:47	0° ♄
behind sun begin	3000 May 13 22:18	23° ♄ 25'22				
behind sun end	3000 May 14 05:47	24° ♄ 05'29		superior conj	3001 Apr 28 03:00	7° ♄ 53'28 -0°39'59
asc. node	3000 May 15 03:56	26° ♄ 04'29		minimum elong	3001 Apr 28 05:04	8° ♄ 04'15 0°39'34
	3000 May 16 23:36	0° ♄		asc. node	3001 May 02 00:58	16° ♄ 07'41
evening rise	3000 May 21 03:39	8° ♄ 56'06		evening rise	3001 May 05 13:43	23° ♄ 33'32
	3000 Jun 01 03:33	0° ♄			3001 May 08 17:12	0° ♄
evening max el	3000 Jun 12 15:00	15° ♄ 10'37	22°57'21	evening max el	3001 May 25 10:42	25° ♄ 48'12 21°24'50
desc. node	3000 Jun 21 19:29	21° ♄ 10'23			3001 May 30 23:45	0° ♄
retrograde	3000 Jun 25 23:52	21° ♄ 50'20		retrograde	3001 Jun 06 14:05	1° ♄ 45'28
evening set	3000 Jun 29 11:13	21° ♄ 23'54		evening set	3001 Jun 08 22:59	1° ♄ 32'37
min. Earth dist.	3000 Jul 06 23:56	18° ♄ 02'42	0.55476 AU	desc. node	3001 Jun 08 16:31	1° ♄ 35'20
inferior conj	3000 Jul 08 13:50	17° ♄ 07'54	-4°16'40		3001 Jun 13 16:14	30° ♄
minimum elong	3000 Jul 08 06:19	17° ♄ 18'47	4°15'06	inferior conj	3001 Jun 18 08:30	27° ♄ 32'59 -2°44'58
morning rise	3000 Jul 17 03:46	13° ♄ 15'46		minimum elong	3001 Jun 18 01:13	27° ♄ 43'12 2°42'35
direct	3000 Jul 20 01:13	12° ♄ 56'00		min. Earth dist.	3001 Jun 18 11:28	27° ♄ 28'50 0.54877 AU
morning max el	3000 Jul 31 00:22	18° ♄ 01'11	20°41'00	morning rise	3001 Jun 27 04:04	23° ♄ 36'28
	3000 Aug 09 07:18	0° ♄		direct	3001 Jun 30 11:38	23° ♄ 12'34
asc. node	3000 Aug 11 03:10	3° ♄ 04'56		morning max el	3001 Jul 13 00:06	29° ♄ 08'07 22°13'17
morning set	3000 Aug 19 02:51	18° ♄ 28'18			3001 Jul 13 21:42	0° ♄
	3000 Aug 24 16:22	0° ♄		asc. node	3001 Jul 29 00:13	22° ♄ 12'46
					3001 Aug 01 22:33	0° ♄
superior conj	3000 Aug 26 15:14	4° ♄ 00'48	1°44'48	morning set	3001 Aug 03 12:49	3° ♄ 18'11
minimum elong	3000 Aug 26 14:53	3° ♄ 59'03	1°44'48			
max. Earth dist.	3000 Aug 31 10:44	13° ♄ 38'11	1.35981 AU	superior conj	3001 Aug 10 17:12	18° ♄ 32'05 1°39'43
evening rise	3000 Sep 04 11:37	21° ♄ 19'29		minimum elong	3001 Aug 10 15:40	18° ♄ 24'01 1°39'38
	3000 Sep 09 07:08	0° ♄		max. Earth dist.	3001 Aug 14 02:24	25° ♄ 35'11 1.34418 AU
desc. node	3000 Sep 17 18:49	14° ♄ 02'23			3001 Aug 16 06:36	0° ♄
	3000 Sep 28 19:27	0° ♄		evening rise	3001 Aug 18 17:26	4° ♄ 50'22
evening max el	3000 Oct 10 02:52	13° ♄ 10'46	26°14'22		3001 Sep 02 01:02	0° ♄
retrograde	3000 Oct 22 19:24	20° ♄ 20'52		desc. node	3001 Sep 04 15:50	4° ♄ 02'23
evening set	3000 Oct 29 03:12	17° ♄ 44'28		evening max el	3001 Sep 22 15:25	26° ♄ 44'40 27°02'29
min. Earth dist.	3000 Nov 02 07:46	13° ♄ 18'24	0.66506 AU		3001 Sep 26 09:38	0° ♄
inferior conj	3000 Nov 03 20:01	11° ♄ 26'45	-1°07'00	retrograde	3001 Oct 05 21:21	4° ♄ 01'39
minimum elong	3000 Nov 03 21:49	11° ♄ 21'13	1°06'14	evening set	3001 Oct 12 17:06	1° ♄ 19'22
asc. node	3000 Nov 07 02:24	7° ♄ 42'30			3001 Oct 14 05:17	30° ♄
morning rise	3000 Nov 09 16:55	5° ♄ 37'45		min. Earth dist.	3001 Oct 16 15:01	27° ♄ 29'26 0.65347 AU
direct	3000 Nov 12 18:40	4° ♄ 43'57		inferior conj	3001 Oct 18 15:16	25° ♄ 12'14 -2°06'47
morning max el	3000 Nov 19 13:05	8° ♄ 28'17	18°45'36	minimum elong	3001 Oct 18 18:44	25° ♄ 02'19 2°05'26
	3000 Dec 04 21:03	0° ♄		morning rise	3001 Oct 24 21:13	19° ♄ 35'51
morning set	3000 Dec 10 19:50	9° ♄ 22'31		asc. node	3001 Oct 24 23:27	19° ♄ 33'10
desc. node	3000 Dec 14 18:07	15° ♄ 34'10		direct	3001 Oct 27 15:01	18° ♄ 55'07
	3000 Dec 23 22:34	0° ♄		morning max el	3001 Nov 03 03:19	22° ♄ 25'38 18°10'42
max. Earth dist.	3000 Dec 26 08:28	3° ♄ 47'12	1.45131 AU		3001 Nov 09 02:47	0° ♄
				morning set	3001 Nov 21 15:30	20° ♄ 02'52
superior conj	3000 Dec 27 03:38	5° ♄ 02'28	-1°17'35		3001 Nov 27 17:54	0° ♄
minimum elong	3000 Dec 26 18:51	4° ♄ 28'00	1°16'36	desc. node	3001 Dec 01 15:08	6° ♄ 15'21
evening rise	3001 Jan 11 15:48	29° ♄ 39'31				
	3001 Jan 11 20:54	0° ♄		superior conj	3001 Dec 06 07:13	13° ♄ 41'19 -0°31'18
greatest brilliancy	3001 Jan 18 13:10	10° ♄ 44'38	-0.9m	minimum elong	3001 Dec 06 03:14	13° ♄ 25'32 0°30'45
	3001 Jan 31 18:17	0° ♄		max. Earth dist.	3001 Dec 09 03:53	18° ♄ 12'08 1.45101 AU
evening max el	3001 Feb 01 21:20	1° ♄ 12'50	18°47'39		3001 Dec 16 16:50	0° ♄
asc. node	3001 Feb 03 01:41	2° ♄ 20'31		evening rise	3001 Dec 22 15:53	9° ♄ 16'27
retrograde	3001 Feb 08 14:31	4° ♄ 58'11		greatest brilliancy	3002 Jan 04 02:01	28° ♄ 25'13 -0.7m
evening set	3001 Feb 11 19:56	3° ♄ 58'38			3002 Jan 05 03:15	0° ♄
	3001 Feb 16 02:28	30° ♄		evening max el	3002 Jan 16 04:45	14° ♄ 42'51 19°33'44
inferior conj	3001 Feb 17 12:16	28° ♄ 17'57	3°32'03	asc. node	3002 Jan 20 22:44	18° ♄ 20'20
minimum elong	3001 Feb 17 10:46	28° ♄ 22'34	3°31'53	retrograde	3002 Jan 23 11:27	18° ♄ 55'01
min. Earth dist.	3001 Feb 19 07:01	26° ♄ 06'39	0.65361 AU	evening set	3002 Jan 27 00:09	17° ♄ 42'05
morning rise	3001 Feb 23 01:11	22° ♄ 06'45		inferior conj	3002 Feb 01 11:48	11° ♄ 46'04 3°10'57
direct	3001 Mar 01 16:24	19° ♄ 15'13		minimum elong	3002 Feb 01 09:30	11° ♄ 53'38 3°10'28
desc. node	3001 Mar 12 17:20	24° ♄ 57'03		min. Earth dist.	3002 Feb 02 15:42	10° ♄ 14'37 0.66590 AU
morning max el	3001 Mar 14 20:44	27° ♄ 00'08	26°54'29	morning rise	3002 Feb 06 18:37	5° ♄ 32'57
	3001 Mar 17 16:15	0° ♄		direct	3002 Feb 12 22:25	2° ♄ 48'35
	3001 Apr 07 22:34	0° ♄		morning max el	3002 Feb 25 06:02	10° ♄ 08'12 25°45'30
morning set	3001 Apr 19 15:41	20° ♄ 53'20		desc. node	3002 Feb 27 14:22	12° ♄ 37'25
max. Earth dist.	3001 Apr 24 01:00	29° ♄ 30'52	1.34205 AU		3002 Mar 12 23:57	0° ♄

	3002 Mar 31 12:36	0°♿		desc. node	3003 Feb 14 11:25	1°♿15'57	
morning set	3002 Apr 02 11:46	3°♿33'56			3003 Mar 06 09:16	0°♿	
max. Earth dist.	3002 Apr 06 07:05	10°♿41'19	1.35805 AU	morning set	3003 Mar 15 11:57	15°♿12'50	
				max. Earth dist.	3003 Mar 19 04:25	21°♿45'25	1.37783 AU
superior conj	3002 Apr 11 20:36	21°♿36'37	-1°08'14		3003 Mar 23 15:35	0°♿	
minimum elong	3002 Apr 12 00:07	21°♿54'18	1°07'38				
	3002 Apr 15 23:30	0°♿		superior conj	3003 Mar 26 02:53	4°♿42'19	-1°34'11
asc. node	3002 Apr 18 22:02	6°♿02'16		minimum elong	3003 Mar 26 07:20	5°♿03'45	1°33'37
evening rise	3002 Apr 19 20:06	7°♿55'02		evening rise	3003 Apr 03 20:21	21°♿53'00	
	3002 May 02 00:02	0°♿		asc. node	3003 Apr 05 19:06	25°♿42'59	
evening max el	3002 May 07 17:36	6°♿59'56	20°06'36		3003 Apr 08 00:27	0°♿	
retrograde	3002 May 18 04:27	12°♿04'35		evening max el	3003 Apr 20 12:07	18°♿51'39	19°07'20
evening set	3002 May 20 04:17	11°♿54'18		retrograde	3003 Apr 29 07:30	23°♿08'30	
desc. node	3002 May 26 13:33	9°♿26'43		evening set	3003 May 01 09:42	22°♿55'01	
inferior conj	3002 May 29 04:50	7°♿55'04	-0°46'33	inferior conj	3003 May 09 16:00	18°♿42'47	1°04'27
minimum elong	3002 May 29 02:40	7°♿58'19	0°45'45	minimum elong	3003 May 09 18:29	18°♿38'32	1°03'35
min. Earth dist.	3002 May 31 00:14	6°♿50'24	0.55234 AU	min. Earth dist.	3003 May 12 15:27	16°♿41'18	0.56482 AU
morning rise	3002 Jun 06 23:24	3°♿35'06		desc. node	3003 May 13 10:36	16°♿10'23	
direct	3002 Jun 11 00:10	2°♿59'44		morning rise	3003 May 18 00:11	13°♿47'48	
morning max el	3002 Jun 24 16:12	9°♿42'38	23°55'33	direct	3003 May 23 00:28	12°♿49'08	
	3002 Jul 09 15:36	0°♿		morning max el	3003 Jun 06 06:38	20°♿08'14	25°34'02
asc. node	3002 Jul 15 21:16	11°♿45'08			3003 Jun 14 16:56	0°♿	
morning set	3002 Jul 19 00:30	18°♿13'35			3003 Jul 02 00:14	0°♿	
	3002 Jul 24 11:48	0°♿		asc. node	3003 Jul 02 18:20	1°♿34'15	
				morning set	3003 Jul 03 12:08	3°♿07'49	
superior conj	3002 Jul 26 00:37	3°♿19'29	1°28'52				
minimum elong	3002 Jul 25 22:25	3°♿07'35	1°28'38	superior conj	3003 Jul 10 11:10	18°♿14'29	1°13'12
max. Earth dist.	3002 Jul 28 03:19	7°♿51'51	1.33252 AU	minimum elong	3003 Jul 10 08:48	18°♿01'30	1°12'49
evening rise	3002 Aug 02 10:59	18°♿55'32		max. Earth dist.	3003 Jul 11 11:06	20°♿25'31	1.32491 AU
	3002 Aug 08 04:25	0°♿			3003 Jul 15 21:46	0°♿	
desc. node	3002 Aug 22 12:51	23°♿33'36		evening rise	3003 Jul 17 12:43	3°♿23'39	
	3002 Aug 27 06:20	0°♿			3003 Jul 31 23:02	0°♿	
evening max el	3002 Sep 05 02:53	10°♿00'06	27°25'14	desc. node	3003 Aug 09 09:53	12°♿23'09	
retrograde	3002 Sep 18 17:13	17°♿17'18		evening max el	3003 Aug 18 10:50	22°♿42'52	27°17'16
evening set	3002 Sep 25 20:49	14°♿38'06		retrograde	3003 Sep 01 06:31	29°♿57'50	
min. Earth dist.	3002 Sep 29 13:14	11°♿22'13	0.63845 AU	evening set	3003 Sep 08 10:40	27°♿33'51	
inferior conj	3002 Oct 02 01:59	8°♿45'52	-3°05'59	min. Earth dist.	3003 Sep 12 01:02	24°♿44'46	0.62020 AU
minimum elong	3002 Oct 02 06:58	8°♿33'03	3°04'19	inferior conj	3003 Sep 15 01:09	21°♿59'50	-4°00'34
morning rise	3002 Oct 08 18:19	3°♿25'35		minimum elong	3003 Sep 15 06:49	21°♿46'51	3°59'07
direct	3002 Oct 11 06:40	2°♿54'18		morning rise	3003 Sep 22 04:36	16°♿59'01	
asc. node	3002 Oct 11 20:30	2°♿55'59		direct	3003 Sep 24 14:08	16°♿34'06	
morning max el	3002 Oct 17 19:42	6°♿19'39	17°53'00	asc. node	3003 Sep 28 17:33	17°♿50'59	
	3002 Nov 02 09:54	0°♿		morning max el	3003 Oct 01 11:12	20°♿02'42	17°53'27
morning set	3002 Nov 03 14:07	2°♿01'30			3003 Oct 08 20:15	0°♿	
				morning set	3003 Oct 17 09:24	14°♿59'04	
superior conj	3002 Nov 16 04:43	23°♿15'48	0°15'47		3003 Oct 25 19:21	0°♿	
minimum elong	3002 Nov 16 06:26	23°♿22'49	0°15'33				
behind sun begin	3002 Nov 16 03:46	23°♿11'54		superior conj	3003 Oct 28 04:56	4°♿09'15	0°54'34
behind sun end	3002 Nov 16 09:06	23°♿33'44		minimum elong	3003 Oct 28 09:11	4°♿27'26	0°54'01
desc. node	3002 Nov 18 12:10	27°♿01'17		max. Earth dist.	3003 Nov 04 12:16	16°♿23'19	1.42954 AU
	3002 Nov 20 08:33	0°♿		desc. node	3003 Nov 05 09:12	17°♿48'35	
max. Earth dist.	3002 Nov 21 22:14	2°♿30'37	1.44344 AU	evening rise	3003 Nov 11 14:09	27°♿42'22	
evening rise	3002 Dec 02 02:09	18°♿24'29			3003 Nov 13 01:27	0°♿	
	3002 Dec 09 16:50	0°♿			3003 Dec 03 12:08	0°♿	
evening max el	3002 Dec 30 06:59	28°♿13'49	20°34'26	evening max el	3003 Dec 13 03:34	11°♿45'37	21°46'32
	3003 Jan 01 03:36	0°♿		retrograde	3003 Dec 22 06:43	17°♿11'46	
retrograde	3003 Jan 07 09:33	3°♿00'44		asc. node	3003 Dec 25 16:50	16°♿08'04	
asc. node	3003 Jan 07 19:48	2°♿59'44		evening set	3003 Dec 26 14:46	15°♿28'40	
evening set	3003 Jan 11 07:03	1°♿33'17		inferior conj	3003 Dec 31 23:06	9°♿10'49	2°00'22
	3003 Jan 13 00:13	30°♿		minimum elong	3003 Dec 31 20:48	9°♿18'50	1°59'34
inferior conj	3003 Jan 16 16:09	25°♿24'38	2°39'44	min. Earth dist.	3004 Jan 01 01:52	9°♿01'15	0.67829 AU
minimum elong	3003 Jan 16 13:36	25°♿33'22	2°39'00	morning rise	3004 Jan 06 02:40	2°♿58'55	
min. Earth dist.	3003 Jan 17 06:44	24°♿34'50	0.67404 AU	direct	3004 Jan 11 01:22	0°♿52'03	
morning rise	3003 Jan 21 19:59	19°♿11'19		morning max el	3004 Jan 21 00:20	6°♿46'09	22°52'43
direct	3003 Jan 27 09:39	16°♿43'13		desc. node	3004 Feb 01 08:27	20°♿36'03	
morning max el	3003 Feb 07 14:37	23°♿24'27	24°21'32		3004 Feb 07 23:49	0°♿	
	3003 Feb 13 10:56	0°♿		morning set	3004 Feb 24 10:07	25°♿34'38	





































































































































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max. Earth dist.	3004 Feb 28 23:41	3°♄16'22	1.39942 AU	desc. node		3005 Jan 18 05:27	10°♄25'31	
						3005 Jan 31 05:31	0°♄	
superior conj	3004 Mar 07 17:36	17°♄00'15	-1°54'46	morning set		3005 Feb 03 03:07	4°♄33'22	
minimum elong	3004 Mar 07 21:40	17°♄18'49	1°54'29	max. Earth dist.		3005 Feb 09 23:50	15°♄38'28	1.42011 AU
	3004 Mar 14 16:21	0°♄						
evening rise	3004 Mar 17 11:25	5°♄19'41		superior conj		3005 Feb 17 11:35	28°♄17'38	-2°05'44
asc. node	3004 Mar 22 16:09	15°♄04'39		minimum elong		3005 Feb 17 12:52	28°♄23'09	2°05'43
	3004 Apr 01 09:34	0°♄				3005 Feb 18 11:10	0°♄	
evening max el	3004 Apr 02 15:57	1°♄19'28	18°28'20	evening rise		3005 Feb 28 13:32	18°♄05'32	
retrograde	3004 Apr 10 05:02	5°♄02'36				3005 Mar 07 04:29	0°♄	
evening set	3004 Apr 12 13:28	4°♄42'02		asc. node		3005 Mar 09 13:11	4°♄00'03	
inferior conj	3004 Apr 20 00:15	0°♄10'44	2°26'11	evening max el		3005 Mar 17 01:42	14°♄13'49	18°09'20
minimum elong	3004 Apr 20 04:06	0°♄03'01	2°25'10	retrograde		3005 Mar 23 20:11	17°♄39'37	
	3004 Apr 20 05:36	30°♄		evening set		3005 Mar 26 10:51	17°♄09'31	
min. Earth dist.	3004 Apr 23 10:43	27°♄26'59	0.58362 AU	inferior conj		3005 Apr 02 04:56	12°♄17'22	3°15'19
morning rise	3004 Apr 27 15:41	24°♄43'43		minimum elong		3005 Apr 02 07:42	12°♄10'55	3°14'53
desc. node	3004 Apr 29 07:38	23°♄59'35		min. Earth dist.		3005 Apr 05 11:55	9°♄15'13	0.60518 AU
direct	3004 May 03 15:19	23°♄10'57		morning rise		3005 Apr 09 02:27	6°♄28'29	
	3004 May 17 02:39	0°♄		direct		3005 Apr 15 18:14	4°♄20'06	
morning max el	3004 May 18 00:42	0°♄52'35	26°52'50	desc. node		3005 Apr 16 04:40	4°♄20'38	
	3004 Jun 07 17:47	0°♄		morning max el		3005 Apr 30 00:48	12°♄13'15	27°39'53
morning set	3004 Jun 16 22:05	17°♄55'33				3005 May 14 01:25	0°♄	
asc. node	3004 Jun 18 15:24	21°♄34'40				3005 May 30 23:11	0°♄	
	3004 Jun 22 12:18	0°♄		morning set		3005 Jun 01 04:34	2°♄30'49	
				asc. node		3005 Jun 05 12:26	11°♄41'30	
superior conj	3004 Jun 23 22:57	3°♄10'50	0°53'26	max. Earth dist.		3005 Jun 07 09:57	15°♄49'22	1.32169 AU
minimum elong	3004 Jun 23 20:54	2°♄59'29	0°53'02					
max. Earth dist.	3004 Jun 23 22:30	3°♄08'22	1.32132 AU	superior conj		3005 Jun 08 10:15	18°♄02'34	0°30'15
evening rise	3004 Jun 30 19:58	18°♄06'26		minimum elong		3005 Jun 08 08:55	17°♄55'19	0°29'58
	3004 Jul 06 17:33	0°♄				3005 Jun 13 21:28	0°♄	
desc. node	3004 Jul 26 06:54	0°♄13'58		evening rise		3005 Jun 15 06:28	2°♄56'35	
	3004 Jul 26 02:04	0°♄				3005 Jun 29 18:58	0°♄	
evening max el	3004 Jul 30 12:58	4°♄42'34	26°36'06	evening max el		3005 Jul 12 08:00	15°♄55'43	25°24'41
retrograde	3004 Aug 13 12:08	11°♄54'20		desc. node		3005 Jul 13 03:55	16°♄42'07	
evening set	3004 Aug 20 06:03	9°♄59'01		retrograde		3005 Jul 26 07:51	23°♄02'20	
min. Earth dist.	3004 Aug 24 02:38	7°♄22'54	0.59983 AU	evening set		3005 Aug 01 02:26	21°♄44'50	
inferior conj	3004 Aug 27 09:18	4°♄45'28	-4°43'42	min. Earth dist.		3005 Aug 05 19:59	19°♄03'43	0.57945 AU
minimum elong	3004 Aug 27 13:52	4°♄36'19	4°43'01	inferior conj		3005 Aug 08 23:04	16°♄53'28	-5°04'25
morning rise	3004 Sep 03 23:44	0°♄06'38		minimum elong		3005 Aug 08 23:48	16°♄52'11	5°04'24
	3004 Sep 04 09:45	30°♄		morning rise		3005 Aug 16 23:32	12°♄37'07	
direct	3004 Sep 06 09:23	29°♄45'26		direct		3005 Aug 19 12:14	12°♄17'34	
	3004 Sep 08 08:04	0°♄		morning max el		3005 Aug 28 02:33	16°♄21'26	18°53'43
morning max el	3004 Sep 13 22:35	3°♄26'26	18°13'12	asc. node		3005 Sep 01 11:38	21°♄27'43	
asc. node	3004 Sep 14 14:36	4°♄06'36				3005 Sep 06 21:02	0°♄	
morning set	3004 Sep 29 19:33	28°♄39'12		morning set		3005 Sep 13 16:09	12°♄50'01	
	3004 Sep 30 12:38	0°♄						
				superior conj		3005 Sep 22 03:19	29°♄21'42	1°38'01
superior conj	3004 Oct 09 06:13	16°♄16'02	1°21'51	minimum elong		3005 Sep 22 05:39	29°♄32'49	1°37'51
minimum elong	3004 Oct 09 10:08	16°♄33'47	1°21'26			3005 Sep 22 11:21	0°♄	
max. Earth dist.	3004 Oct 16 20:50	29°♄37'10	1.41117 AU	max. Earth dist.		3005 Sep 29 01:42	12°♄10'10	1.39065 AU
	3004 Oct 17 02:13	0°♄		evening rise		3005 Oct 02 23:22	18°♄59'41	
evening rise	3004 Oct 21 18:59	7°♄48'10		desc. node		3005 Oct 09 03:13	29°♄13'28	
desc. node	3004 Oct 22 06:12	8°♄33'45				3005 Oct 09 14:48	0°♄	
	3004 Nov 05 04:37	0°♄				3005 Oct 30 11:03	0°♄	
evening max el	3004 Nov 24 19:26	25°♄19'47	23°05'21	evening max el		3005 Nov 07 08:35	8°♄58'32	24°24'47
	3004 Nov 30 12:53	0°♄		retrograde		3005 Nov 18 16:13	15°♄35'33	
retrograde	3004 Dec 05 01:22	1°♄24'18		evening set		3005 Nov 24 02:14	13°♄19'50	
	3004 Dec 09 03:25	30°♄		asc. node		3005 Nov 28 10:52	8°♄23'59	
evening set	3004 Dec 09 21:41	29°♄24'51		min. Earth dist.		3005 Nov 28 18:35	7°♄58'19	0.67636 AU
asc. node	3004 Dec 11 13:51	27°♄47'10		inferior conj		3005 Nov 29 13:22	6°♄55'23	0°22'39
inferior conj	3004 Dec 15 06:45	23°♄01'35	1°14'15	minimum elong		3005 Nov 29 12:49	6°♄57'14	0°22'26
minimum elong	3004 Dec 15 05:08	23°♄07'12	1°13'38	morning rise		3005 Dec 04 23:26	0°♄52'30	
min. Earth dist.	3004 Dec 14 22:36	23°♄29'42	0.67901 AU			3005 Dec 06 11:26	30°♄	
morning rise	3004 Dec 20 12:28	16°♄53'05		direct		3005 Dec 08 18:25	29°♄30'15	
direct	3004 Dec 24 20:42	15°♄09'01				3005 Dec 11 03:55	0°♄	
morning max el	3005 Jan 02 14:36	20°♄15'16	21°27'51	morning max el		3005 Dec 16 12:18	3°♄55'51	20°13'25

	3006 Jan 04 16:44	0°♁	morning rise	3006 Nov 19 09:34	14°♎54'11	
desc. node	3006 Jan 05 02:28	0°♁36'40	direct	3006 Nov 22 17:03	13°♎51'02	
morning set	3006 Jan 13 00:31	12°♁42'31	morning max el	3006 Nov 29 17:53	17°♎47'00	19°13'08
max. Earth dist.	3006 Jan 23 08:07	28°♁56'05 1.43710 AU		3006 Dec 09 05:00	0°♁	
	3006 Jan 24 00:03	0°♁	desc. node	3006 Dec 22 23:31	21°♁03'15	
			morning set	3006 Dec 23 02:23	21°♁14'22	
superior conj	3006 Jan 29 04:20	8°♁25'18 -2°01'53		3006 Dec 28 17:24	0°♁	
minimum elong	3006 Jan 29 00:14	8°♁08'25 2°01'42	max. Earth dist.	3007 Jan 05 23:15	12°♁55'18 1.44815 AU	
evening rise	3006 Feb 10 22:28	0°♁02'33				
	3006 Feb 10 21:52	0°♁	superior conj	3007 Jan 08 20:04	17°♁27'27 -1°39'03	
asc. node	3006 Feb 24 10:11	22°♁21'07	minimum elong	3007 Jan 08 11:20	16°♁52'46 1°38'16	
evening max el	3006 Feb 28 14:06	27°♁25'46 18°09'41		3007 Jan 16 15:47	0°♁	
	3006 Mar 03 22:15	0°♁	evening rise	3007 Jan 23 10:12	11°♁04'35	
retrograde	3006 Mar 07 00:58	0°♁49'25		3007 Feb 04 00:42	0°♁	
evening set	3006 Mar 09 21:14	0°♁08'28	asc. node	3007 Feb 11 07:12	9°♁57'47	
	3006 Mar 10 04:06	30°♁♁	evening max el	3007 Feb 12 02:21	10°♁48'26 18°28'39	
inferior conj	3006 Mar 16 02:30	24°♁55'58 3°37'14	retrograde	3007 Feb 18 14:57	14°♁22'54	
minimum elong	3006 Mar 16 03:25	24°♁53'34 3°37'11	evening set	3007 Feb 21 16:47	13°♁30'21	
min. Earth dist.	3006 Mar 18 21:23	22°♁00'04 0.62624 AU	inferior conj	3007 Feb 27 12:56	7°♁59'10 3°38'33	
morning rise	3006 Mar 22 08:26	18°♁54'05	minimum elong	3007 Feb 27 12:10	8°♁01'25 3°38'30	
direct	3006 Mar 29 06:25	16°♁18'28	min. Earth dist.	3007 Mar 01 16:31	5°♁28'10 0.64461 AU	
desc. node	3006 Apr 03 01:41	17°♁24'24	morning rise	3007 Mar 05 06:56	1°♁50'07	
morning max el	3006 Apr 12 06:33	24°♁15'24 27°49'47		3007 Mar 08 00:46	30°♁♁	
	3006 Apr 17 11:10	0°♁	direct	3007 Mar 12 02:23	29°♁00'35	
	3006 May 07 09:46	0°♁		3007 Mar 16 11:17	0°♁	
morning set	3006 May 16 05:30	16°♁46'29	desc. node	3007 Mar 20 22:43	2°♁42'18	
max. Earth dist.	3006 May 21 17:34	28°♁15'23 1.32614 AU	morning max el	3007 Mar 25 15:52	6°♁53'22 27°23'42	
	3006 May 22 13:03	0°♁		3007 Apr 12 10:05	0°♁	
asc. node	3006 May 23 09:28	1°♁50'14	morning set	3007 Apr 29 22:14	0°♁34'30	
				3007 Apr 29 15:10	0°♁	
superior conj	3006 May 23 19:17	2°♁43'28 0°04'20	max. Earth dist.	3007 May 04 17:26	10°♁14'45 1.33490 AU	
minimum elong	3006 May 23 19:05	2°♁42'21 0°04'17				
behind sun begin	3006 May 23 14:03	2°♁15'04	superior conj	3007 May 08 00:13	17°♁07'32 -0°23'32	
behind sun end	3006 May 24 00:07	3°♁09'39	minimum elong	3007 May 08 01:24	17°♁13'52 0°23'16	
evening rise	3006 May 30 18:17	17°♁47'00	asc. node	3007 May 10 06:31	21°♁56'57	
	3006 Jun 05 18:43	0°♁		3007 May 14 00:55	0°♁	
evening max el	3006 Jun 23 21:47	26°♁31'45 23°53'06	evening rise	3007 May 15 05:34	2°♁31'23	
	3006 Jun 28 01:31	0°♁		3007 May 30 13:58	0°♁	
desc. node	3006 Jun 30 00:57	1°♁15'07	evening max el	3007 Jun 05 12:55	6°♁59'05 22°16'45	
retrograde	3006 Jul 07 15:21	3°♁25'48	desc. node	3007 Jun 16 21:57	13°♁17'58	
evening set	3006 Jul 11 23:45	2°♁44'06	retrograde	3007 Jun 18 11:03	13°♁23'28	
	3006 Jul 17 19:43	30°♁♁	evening set	3007 Jun 21 09:24	13°♁04'26	
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inferior conj	3006 Jul 20 16:33	28°♁15'46 -4°48'00	inferior conj	3007 Jun 30 16:49	8°♁56'31 -3°43'01	
minimum elong	3006 Jul 20 11:33	28°♁23'24 4°47'23	minimum elong	3007 Jun 30 08:35	9°♁08'08 3°40'50	
morning rise	3006 Jul 29 01:57	24°♁18'11	morning rise	3007 Jul 09 09:44	5°♁05'24	
direct	3006 Jul 31 19:55	23°♁58'50	direct	3007 Jul 12 10:48	4°♁44'34	
morning max el	3006 Aug 10 20:13	28°♁37'37 19°55'50	morning max el	3007 Jul 24 02:21	10°♁10'05 21°18'23	
	3006 Aug 12 05:24	0°♁	asc. node	3007 Aug 06 05:44	28°♁29'39	
asc. node	3006 Aug 19 08:40	9°♁39'16		3007 Aug 07 01:24	0°♁	
morning set	3006 Aug 28 19:49	27°♁21'20	morning set	3007 Aug 13 04:06	12°♁06'21	
	3006 Aug 30 03:03	0°♁				
superior conj	3006 Sep 05 14:50	13°♁10'07 1°44'38	superior conj	3007 Aug 20 12:32	27°♁29'08 1°43'25	
minimum elong	3006 Sep 05 15:23	13°♁12'54 1°44'38	minimum elong	3007 Aug 20 11:38	27°♁24'27 1°43'24	
max. Earth dist.	3006 Sep 11 06:48	24°♁11'13 1.37045 AU		3007 Aug 21 17:47	0°♁	
	3006 Sep 14 10:02	0°♁	max. Earth dist.	3007 Aug 24 17:23	6°♁02'40 1.35272 AU	
evening rise	3006 Sep 15 02:13	1°♁13'22	evening rise	3007 Aug 28 23:30	14°♁19'31	
desc. node	3006 Sep 26 00:15	19°♁42'30		3007 Sep 06 17:46	0°♁	
	3006 Oct 02 18:37	0°♁	desc. node	3007 Sep 12 21:16	9°♁55'09	
evening max el	3006 Oct 20 20:48	22°♁39'41 25°37'55		3007 Sep 27 12:42	0°♁	
retrograde	3006 Nov 02 02:33	29°♁40'19	evening max el	3007 Oct 03 09:03	6°♁18'05 26°37'19	
evening set	3006 Nov 08 02:43	27°♁10'10	retrograde	3007 Oct 16 07:48	13°♁32'20	
min. Earth dist.	3006 Nov 12 11:23	22°♁23'44 0.67026 AU	evening set	3007 Oct 22 21:11	10°♁52'10	
inferior conj	3006 Nov 13 17:08	20°♁48'49 -0°33'18	min. Earth dist.	3007 Oct 26 22:44	6°♁41'50 0.66063 AU	
minimum elong	3006 Nov 13 17:59	20°♁46'03 0°32'56	inferior conj	3007 Oct 28 16:06	4°♁38'26 -1°32'15	
asc. node	3006 Nov 15 07:53	18°♁47'43	minimum elong	3007 Oct 28 18:37	4°♁30'57 1°31'13	
			asc. node	3007 Nov 02 04:56	29°♁54'23	

	3007 Nov 02 02:07	30°♄♂		asc. node	3008 Oct 19 02:00	12°♂23'07	
morning rise	3007 Nov 03 16:42	28°♂54'43		direct	3008 Oct 20 09:24	12°♂14'05	
direct	3007 Nov 06 14:45	28°♂07'03		morning max el	3008 Oct 26 21:20	15°♂41'41	18°00'58
	3007 Nov 11 06:49	0°♄			3008 Nov 06 02:55	0°♄	
morning max el	3007 Nov 13 05:45	1°♄44'15	18°28'41	morning set	3008 Nov 13 12:46	12°♄19'46	
	3007 Dec 02 13:03	0°♂			3008 Nov 24 05:48	0°♂	
morning set	3007 Dec 03 04:56	1°♂03'39		desc. node	3008 Nov 25 17:35	2°♂24'23	
desc. node	3007 Dec 09 20:33	11°♂40'23					
				superior conj	3008 Nov 27 07:35	4°♂56'52	-0°10'46
superior conj	3007 Dec 18 22:12	25°♂58'33	-0°58'48	minimum elong	3008 Nov 27 06:16	4°♂51'36	0°10'35
minimum elong	3007 Dec 18 14:54	25°♂29'55	0°57'54	behind sun begin	3008 Nov 26 22:12	4°♂19'18	
max. Earth dist.	3007 Dec 19 17:49	27°♂15'31	1.45207 AU	behind sun end	3008 Nov 27 14:20	5°♂23'51	
	3007 Dec 21 11:45	0°♂		max. Earth dist.	3008 Dec 01 12:36	11°♂38'17	1.44859 AU
evening rise	3008 Jan 03 22:39	21°♂09'57			3008 Dec 13 07:19	0°♂	
	3008 Jan 09 12:41	0°♄		evening rise	3008 Dec 13 15:18	0°♂30'48	
greatest brilliancy	3008 Jan 13 13:59	6°♄22'12	-0.8m	greatest brilliancy	3008 Dec 27 17:30	21°♂56'30	-0.6m
evening max el	3008 Jan 26 12:01	24°♄16'26	19°05'18		3009 Jan 02 08:40	0°♄	
asc. node	3008 Jan 29 04:14	26°♄37'07		evening max el	3009 Jan 08 17:21	7°♄47'23	19°57'57
retrograde	3008 Feb 02 10:16	28°♄12'34		asc. node	3009 Jan 15 01:17	12°♄04'50	
evening set	3008 Feb 05 18:33	27°♄07'32		retrograde	3009 Jan 16 08:00	12°♄13'49	
inferior conj	3008 Feb 11 08:34	21°♄19'51	3°24'30	evening set	3009 Jan 20 00:08	10°♄55'05	
minimum elong	3008 Feb 11 06:40	21°♄25'56	3°24'12	inferior conj	3009 Jan 25 10:29	4°♄53'27	2°58'48
min. Earth dist.	3008 Feb 12 20:49	19°♄24'56	0.65927 AU	minimum elong	3009 Jan 25 08:00	5°♄01'44	2°58'12
morning rise	3008 Feb 16 18:27	15°♄07'19		min. Earth dist.	3009 Jan 26 08:37	3°♄39'24	0.66985 AU
direct	3008 Feb 23 05:07	12°♄17'32			3009 Jan 29 07:39	30°♄♂	
desc. node	3008 Mar 06 19:46	19°♄39'05		morning rise	3009 Jan 30 15:39	28°♂39'51	
morning max el	3008 Mar 07 01:49	19°♄54'15	26°27'41	direct	3009 Feb 05 13:41	26°♂01'14	
	3008 Mar 15 17:28	0°♄			3009 Feb 14 01:53	0°♄	
	3008 Apr 04 12:09	0°♄		morning max el	3009 Feb 17 10:39	3°♄06'38	25°10'53
morning set	3008 Apr 12 03:08	13°♄43'18		desc. node	3009 Feb 21 16:49	7°♄46'53	
max. Earth dist.	3008 Apr 16 06:03	21°♄39'47	1.34827 AU		3009 Mar 09 22:42	0°♄	
	3008 Apr 20 09:34	0°♄		morning set	3009 Mar 25 15:28	25°♄59'45	
					3009 Mar 27 20:23	0°♄	
superior conj	3008 Apr 20 22:41	1°♄07'16	-0°52'07	max. Earth dist.	3009 Mar 29 07:18	2°♄41'36	1.36608 AU
minimum elong	3008 Apr 21 01:23	1°♄21'12	0°51'35				
asc. node	3008 Apr 26 03:33	11°♄56'48		superior conj	3009 Apr 04 11:53	14°♄35'34	-1°19'41
evening rise	3008 Apr 28 14:18	17°♄02'29		minimum elong	3009 Apr 04 15:54	14°♄55'24	1°19'05
	3008 May 05 03:44	0°♄			3009 Apr 12 03:37	0°♄	
evening max el	3008 May 17 12:54	17°♄48'41	20°49'26	evening rise	3009 Apr 12 18:22	1°♄14'27	
retrograde	3008 May 29 00:11	23°♄24'29		asc. node	3009 Apr 13 00:36	1°♄45'52	
evening set	3008 May 31 02:54	23°♄13'48		evening max el	3009 Apr 30 00:57	29°♄17'31	19°38'57
desc. node	3008 Jun 02 18:59	22°♄32'07			3009 Apr 30 19:09	0°♄	
inferior conj	3008 Jun 09 10:18	19°♄16'12	-1°56'00	retrograde	3009 May 09 18:13	4°♄00'03	
minimum elong	3008 Jun 09 04:52	19°♄23'56	1°54'04	evening set	3009 May 11 18:08	3°♄49'01	
min. Earth dist.	3008 Jun 10 07:17	18°♄46'18	0.54904 AU	inferior conj	3009 May 20 11:35	29°♄45'56	0°03'15
morning rise	3008 Jun 18 06:29	15°♄11'35		minimum elong	3009 May 20 11:44	29°♄45'42	0°03'11
direct	3008 Jun 21 20:03	14°♄44'10		transit middle	3009 May 20 11:44	29°♄45'42	0°03'11
morning max el	3008 Jul 04 22:22	21°♄01'24	22°56'19	transit begin	3009 May 20 07:53	29°♄51'45	
	3008 Jul 12 14:08	0°♄		transit end	3009 May 20 15:35	29°♄39'39	
asc. node	3008 Jul 23 02:49	17°♄48'45			3009 May 20 02:37	30°♄♄	
morning set	3008 Jul 27 15:00	26°♄59'08		desc. node	3009 May 20 16:02	29°♄38'56	
	3008 Jul 29 01:12	0°♄		min. Earth dist.	3009 May 22 21:12	28°♄15'41	0.55669 AU
				morning rise	3009 May 29 02:45	25°♄11'19	
superior conj	3008 Aug 03 17:10	12°♄08'29	1°35'46	direct	3009 Jun 02 13:15	24°♄27'19	
minimum elong	3008 Aug 03 15:17	11°♄58'28	1°35'37		3009 Jun 14 21:56	0°♄	
max. Earth dist.	3008 Aug 06 12:47	18°♄05'56	1.33867 AU	morning max el	3009 Jun 16 12:49	1°♄27'58	24°38'51
evening rise	3008 Aug 11 10:46	28°♄06'22			3009 Jul 06 05:23	0°♄	
	3008 Aug 12 09:55	0°♄		asc. node	3009 Jul 09 23:52	7°♄28'41	
desc. node	3008 Aug 29 18:18	29°♄44'21		morning set	3009 Jul 12 02:48	11°♄54'07	
	3008 Aug 29 22:32	0°♄					
evening max el	3008 Sep 14 21:12	19°♄45'26	27°15'35	superior conj	3009 Jul 19 02:07	26°♄59'42	1°22'46
retrograde	3008 Sep 28 07:33	27°♄04'03		minimum elong	3009 Jul 18 23:47	26°♄47'00	1°22'28
evening set	3008 Oct 05 07:13	24°♄21'36			3009 Jul 20 11:20	0°♄	
min. Earth dist.	3008 Oct 09 02:27	20°♄46'39	0.64746 AU	max. Earth dist.	3009 Jul 20 16:46	0°♄29'24	1.32875 AU
inferior conj	3008 Oct 11 08:06	18°♄20'01	-2°32'12	evening rise	3009 Jul 26 08:08	12°♄22'24	
minimum elong	3008 Oct 11 12:15	18°♄08'37	2°30'39		3009 Aug 04 14:24	0°♄	
morning rise	3008 Oct 17 18:21	12°♄50'12		desc. node	3009 Aug 16 15:20	18°♄59'39	


























































































































	3009 Aug 25 12:39	0°♄		evening max el	3010 Aug 10 13:38	15°♎16'05	27°03'55
evening max el	3009 Aug 28 07:38	2°♄49'15	27°26'01	retrograde	3010 Aug 24 10:46	22°♎28'49	
retrograde	3009 Sep 11 00:52	10°♄05'48		evening set	3010 Aug 31 12:07	20°♎15'46	
evening set	3009 Sep 18 05:33	7°♄31'47		min. Earth dist.	3010 Sep 04 03:56	17°♎34'08	0.61171 AU
min. Earth dist.	3009 Sep 21 20:33	4°♄28'15	0.63096 AU	inferior conj	3010 Sep 07 07:34	14°♎50'31	-4°20'49
inferior conj	3009 Sep 24 14:19	1°♄46'44	-3°30'06	minimum elong	3010 Sep 07 13:02	14°♎38'37	4°19'38
minimum elong	3009 Sep 24 19:44	1°♄33'25	3°28'26	morning rise	3010 Sep 14 15:42	9°♎58'30	
	3009 Sep 26 10:52	30°♎		direct	3010 Sep 17 01:03	9°♎35'19	
morning rise	3009 Oct 01 11:19	26°♎34'04		asc. node	3010 Sep 22 20:06	11°♎57'18	
direct	3009 Oct 03 22:02	26°♎05'54		morning max el	3010 Sep 24 03:45	13°♎07'55	17°59'24
asc. node	3009 Oct 05 23:05	26°♎26'00			3010 Oct 05 13:09	0°♄	
morning max el	3009 Oct 10 13:41	29°♎31'58	17°50'50	morning set	3010 Oct 09 23:18	8°♄04'30	
	3009 Oct 11 00:42	0°♄					
morning set	3009 Oct 26 21:00	24°♄46'15		superior conj	3010 Oct 20 03:33	26°♄30'42	1°07'34
	3009 Oct 29 20:35	0°♄		minimum elong	3010 Oct 20 07:55	26°♄49'49	1°07'02
					3010 Oct 22 03:35	0°♄	
superior conj	3009 Nov 07 16:06	15°♄04'09	0°33'33	max. Earth dist.	3010 Oct 27 17:37	9°♄27'36	1.42224 AU
minimum elong	3009 Nov 07 19:20	15°♄17'36	0°33'06	desc. node	3010 Oct 30 11:38	13°♄58'32	
desc. node	3009 Nov 12 14:36	23°♄11'25		evening rise	3010 Nov 02 18:03	19°♄13'37	
max. Earth dist.	3009 Nov 14 05:16	25°♄47'37	1.43824 AU		3010 Nov 09 16:26	0°♄	
	3009 Nov 16 20:28	0°♄			3010 Dec 01 03:05	0°♄	
evening rise	3009 Nov 23 00:12	9°♄38'08		evening max el	3010 Dec 05 11:46	4°♄52'18	22°19'30
	3009 Dec 06 12:52	0°♄		retrograde	3010 Dec 15 01:56	10°♄34'30	
evening max el	3009 Dec 22 17:16	21°♄19'11	21°04'00	evening set	3010 Dec 19 15:08	8°♄44'19	
retrograde	3009 Dec 31 05:47	26°♄22'06		asc. node	3010 Dec 19 19:21	8°♄35'30	
asc. node	3010 Jan 01 22:20	26°♄06'21		inferior conj	3010 Dec 24 23:37	2°♄23'49	1°41'32
evening set	3010 Jan 04 07:34	24°♄48'13		minimum elong	3010 Dec 24 21:33	2°♄31'00	1°40'46
inferior conj	3010 Jan 09 16:10	18°♄35'30	2°23'54	min. Earth dist.	3010 Dec 24 21:37	2°♄30'46	0.67913 AU
minimum elong	3010 Jan 09 13:40	18°♄44'09	2°23'07		3010 Dec 26 17:53	30°♄	
min. Earth dist.	3010 Jan 10 01:38	18°♄02'54	0.67639 AU	morning rise	3010 Dec 30 03:51	26°♄13'23	
morning rise	3010 Jan 14 19:35	12°♄22'39		direct	3011 Jan 03 20:20	24°♄16'15	
direct	3010 Jan 20 03:01	10°♄02'57			3011 Jan 13 10:46	0°♄	
morning max el	3010 Jan 30 19:07	16°♄24'18	23°43'37	morning max el	3011 Jan 13 06:20	29°♄48'48	22°15'37
desc. node	3010 Feb 08 13:50	26°♄44'41		desc. node	3011 Jan 26 10:51	16°♄18'27	
	3010 Feb 11 00:32	0°♄			3011 Feb 04 19:57	0°♄	
	3010 Mar 02 23:06	0°♄		morning set	3011 Feb 15 14:48	16°♄52'30	
morning set	3010 Mar 07 05:13	7°♄07'15		max. Earth dist.	3011 Feb 20 23:48	25°♄45'36	1.40858 AU
max. Earth dist.	3010 Mar 11 02:35	13°♄52'22	1.38699 AU		3011 Feb 23 11:37	0°♄	
superior conj	3010 Mar 18 12:08	27°♄22'44	-1°43'48	superior conj	3011 Feb 28 18:39	9°♄16'24	-2°00'54
minimum elong	3010 Mar 18 16:38	27°♄43'58	1°43'20	minimum elong	3011 Feb 28 21:53	9°♄30'49	2°00'45
	3010 Mar 19 21:21	0°♄		evening rise	3011 Mar 11 01:06	28°♄10'42	
evening rise	3010 Mar 27 15:04	15°♄00'05			3011 Mar 12 00:29	0°♄	
asc. node	3010 Mar 30 21:39	21°♄19'20		asc. node	3011 Mar 17 18:41	10°♄30'47	
	3010 Apr 04 16:15	0°♄		evening max el	3011 Mar 27 06:35	24°♄06'08	18°17'48
evening max el	3010 Apr 12 23:53	11°♄26'07	18°48'17	retrograde	3011 Apr 03 10:20	27°♄40'10	
retrograde	3010 Apr 21 04:40	15°♄26'14		evening set	3011 Apr 05 21:31	27°♄15'43	
evening set	3010 Apr 23 09:37	15°♄09'59		inferior conj	3011 Apr 13 00:40	22°♄35'10	2°50'49
inferior conj	3010 May 01 07:24	10°♄50'01	1°43'14	minimum elong	3011 Apr 13 04:15	22°♄27'30	2°50'02
minimum elong	3010 May 01 10:52	10°♄43'40	1°42'09	min. Earth dist.	3011 Apr 16 10:53	19°♄40'45	0.59265 AU
min. Earth dist.	3010 May 04 13:38	8°♄28'13	0.57229 AU	morning rise	3011 Apr 20 08:22	16°♄57'37	
desc. node	3010 May 07 13:02	6°♄35'19		desc. node	3011 Apr 24 10:03	15°♄23'13	
morning rise	3010 May 09 08:58	5°♄40'50		direct	3011 Apr 26 15:50	15°♄09'37	
direct	3010 May 14 19:59	4°♄28'29		morning max el	3011 May 11 00:39	22°♄56'40	27°17'23
morning max el	3010 May 29 04:03	11°♄58'00	26°10'52		3011 May 17 07:27	0°♄	
	3010 Jun 12 04:06	0°♄			3011 Jun 05 04:45	0°♄	
morning set	3010 Jun 26 13:55	26°♄46'36		morning set	3011 Jun 10 22:36	11°♄29'57	
asc. node	3010 Jun 26 20:54	27°♄23'33		asc. node	3011 Jun 13 17:56	17°♄27'18	
	3010 Jun 28 02:15	0°♄		max. Earth dist.	3011 Jun 17 14:46	25°♄54'06	1.32100 AU
superior conj	3010 Jul 03 13:24	11°♄56'18	1°05'17	superior conj	3011 Jun 18 01:08	26°♄51'14	0°43'59
minimum elong	3010 Jul 03 11:06	11°♄43'41	1°04'53	minimum elong	3011 Jun 17 23:21	26°♄41'20	0°43'37
max. Earth dist.	3010 Jul 04 02:43	13°♄09'33	1.32291 AU		3011 Jun 19 11:24	0°♄	
evening rise	3010 Jul 10 12:32	26°♄58'23		evening rise	3011 Jun 24 21:24	11°♄45'07	
	3010 Jul 11 23:41	0°♄			3011 Jul 04 04:21	0°♄	
	3010 Jul 29 00:57	0°♄		desc. node	3011 Jul 21 09:22	24°♄46'04	
desc. node	3010 Aug 03 12:21	7°♄27'07		evening max el	3011 Jul 23 12:37	26°♄55'03	26°08'54



































































































































	3011 Jul 27 03:28	0° \mathbb{M}		evening max el	3012 Jul 04 04:37	7° Ω 48'58	24°47'13
retrograde	3011 Aug 06 12:08	4° \mathbb{M} 04'52		desc. node	3012 Jul 07 06:22	10° Ω 29'20	
evening set	3011 Aug 12 22:04	2° \mathbb{M} 24'42		retrograde	3012 Jul 18 03:14	14° Ω 52'36	
	3011 Aug 16 19:12	30° $\mathbb{R}\Omega$		evening set	3012 Jul 23 08:08	13° Ω 51'12	
min. Earth dist.	3011 Aug 17 01:17	29° Ω 49'04	0.59103 AU	min. Earth dist.	3012 Jul 28 15:56	11° Ω 02'38	0.57148 AU
inferior conj	3011 Aug 20 08:11	27° Ω 20'44	-4°56'00	inferior conj	3012 Jul 31 13:15	9° Ω 09'10	-5°02'53
minimum elong	3011 Aug 20 11:28	27° Ω 14'31	4°55'42	minimum elong	3012 Jul 31 11:37	9° Ω 11'53	5°02'49
morning rise	3011 Aug 28 03:03	22° Ω 51'49		morning rise	3012 Aug 08 17:43	5° Ω 02'01	
direct	3011 Aug 30 13:49	22° Ω 31'26		direct	3012 Aug 11 08:17	4° Ω 42'51	
morning max el	3011 Sep 07 12:20	26° Ω 20'19	18°27'56	morning max el	3012 Aug 20 12:17	9° Ω 00'01	19°17'35
asc. node	3011 Sep 09 17:07	28° Ω 42'20		asc. node	3012 Aug 26 14:10	16° Ω 26'22	
	3011 Sep 10 18:04	0° \mathbb{M}			3012 Sep 03 09:07	0° \mathbb{M}	
morning set	3011 Sep 23 14:19	21° \mathbb{M} 58'47		morning set	3012 Sep 06 14:12	6° \mathbb{M} 18'40	
	3011 Sep 27 18:25	0° Ω					
				superior conj	3012 Sep 14 17:44	22° \mathbb{M} 30'01	1°41'53
superior conj	3011 Oct 02 13:58	9° Ω 04'39	1°29'59	minimum elong	3012 Sep 14 19:18	22° \mathbb{M} 37'37	1°41'49
minimum elong	3011 Oct 02 17:17	9° Ω 20'02	1°29'41		3012 Sep 18 15:51	0° Ω	
max. Earth dist.	3011 Oct 10 00:25	22° Ω 24'25	1.40253 AU	max. Earth dist.	3012 Sep 21 04:12	4° Ω 39'19	1.38179 AU
evening rise	3011 Oct 14 08:33	29° Ω 46'07		evening rise	3012 Sep 24 22:47	11° Ω 24'32	
	3011 Oct 14 11:53	0° \mathbb{M}		desc. node	3012 Oct 03 05:42	25° Ω 17'37	
desc. node	3011 Oct 17 08:40	4° \mathbb{M} 41'59			3012 Oct 06 05:23	0° \mathbb{M}	
	3011 Nov 03 03:44	0° \mathbb{M}			3012 Oct 28 12:48	0° \mathbb{M}	
evening max el	3011 Nov 18 02:06	18° \mathbb{M} 28'08	23°39'23	evening max el	3012 Oct 30 14:27	2° \mathbb{M} 07'37	24°57'11
retrograde	3011 Nov 28 19:09	24° \mathbb{M} 47'40		retrograde	3012 Nov 11 08:23	8° \mathbb{M} 56'52	
evening set	3011 Dec 03 21:16	22° \mathbb{M} 40'55		evening set	3012 Nov 17 00:19	6° \mathbb{M} 34'35	
asc. node	3011 Dec 06 16:21	19° \mathbb{M} 44'00		min. Earth dist.	3012 Nov 21 13:16	1° \mathbb{M} 27'42	0.67408 AU
inferior conj	3011 Dec 09 07:03	16° \mathbb{M} 16'29	0°53'00	inferior conj	3012 Nov 22 12:40	0° \mathbb{M} 10'37	-0°00'37
minimum elong	3011 Dec 09 05:50	16° \mathbb{M} 20'38	0°52'30	minimum elong	3012 Nov 22 12:41	0° \mathbb{M} 10'34	0°00'37
min. Earth dist.	3011 Dec 08 18:16	17° \mathbb{M} 00'06	0.67829 AU	transit middle	3012 Nov 22 12:41	0° \mathbb{M} 10'34	0°00'37
morning rise	3011 Dec 14 14:23	10° \mathbb{M} 10'16		transit begin	3012 Nov 22 09:55	0° \mathbb{M} 19'41	
direct	3011 Dec 18 16:42	8° \mathbb{M} 35'58		transit end	3012 Nov 22 15:27	0° \mathbb{M} 01'29	
morning max el	3011 Dec 26 23:45	13° \mathbb{M} 23'45	20°54'42	asc. node	3012 Nov 22 13:23	0° \mathbb{M} 08'17	
	3012 Jan 08 23:51	0° \mathbb{M}			3012 Nov 22 15:54	30° $\mathbb{R}\mathbb{M}$	
desc. node	3012 Jan 13 07:53	6° \mathbb{M} 18'22		morning rise	3012 Nov 28 01:13	24° \mathbb{M} 10'51	
morning set	3012 Jan 25 21:29	25° \mathbb{M} 24'35		direct	3012 Dec 01 14:58	22° \mathbb{M} 57'16	
	3012 Jan 28 19:32	0° \approx		morning max el	3012 Dec 09 00:56	27° \mathbb{M} 09'27	19°45'57
max. Earth dist.	3012 Feb 03 03:38	8° \approx 33'44	1.42792 AU		3012 Dec 11 14:57	0° \mathbb{M}	
				greatest brilliancy	3012 Dec 22 07:51	14° \mathbb{M} 42'52	-0.7m
superior conj	3012 Feb 10 02:21	20° \approx 05'15	-2°06'14	desc. node	3012 Dec 30 04:55	26° \mathbb{M} 36'47	
minimum elong	3012 Feb 10 01:35	20° \approx 01'59	2°06'12		3013 Jan 01 09:55	0° \mathbb{M}	
	3012 Feb 15 20:31	0° \mathbb{M}		morning set	3013 Jan 03 17:30	3° \mathbb{M} 34'09	
evening rise	3012 Feb 21 20:32	10° \mathbb{M} 37'45		max. Earth dist.	3013 Jan 15 14:38	22° \mathbb{M} 09'34	1.44256 AU
asc. node	3012 Mar 03 15:42	29° \mathbb{M} 13'15					
	3012 Mar 04 03:54	0° \mathbb{M}		superior conj	3013 Jan 20 07:58	29° \mathbb{M} 43'33	-1°54'37
evening max el	3012 Mar 09 17:48	7° \mathbb{M} 09'11	18°07'06	minimum elong	3013 Jan 20 01:27	29° \mathbb{M} 17'14	1°54'12
retrograde	3012 Mar 16 08:01	10° \mathbb{M} 32'45			3013 Jan 20 12:02	0° \approx	
evening set	3012 Mar 19 00:58	9° \mathbb{M} 58'18		evening rise	3013 Feb 02 20:56	22° \approx 12'13	
inferior conj	3012 Mar 25 13:08	4° \mathbb{M} 57'19	3°27'33		3013 Feb 07 11:04	0° \mathbb{M}	
minimum elong	3012 Mar 25 15:08	4° \mathbb{M} 52'23	3°27'19	asc. node	3013 Feb 18 12:44	17° \mathbb{M} 17'13	
min. Earth dist.	3012 Mar 28 15:38	1° \mathbb{M} 54'54	0.61430 AU	evening max el	3013 Feb 21 06:30	20° \mathbb{M} 26'47	18°15'31
	3012 Mar 30 20:11	30° $\mathbb{R}\mathbb{M}$		retrograde	3013 Feb 27 17:09	23° \mathbb{M} 53'35	
morning rise	3012 Apr 01 03:34	29° \mathbb{M} 01'36		evening set	3013 Mar 02 15:40	23° \mathbb{M} 07'57	
direct	3012 Apr 07 22:57	26° \mathbb{M} 40'17		inferior conj	3013 Mar 08 16:41	17° \mathbb{M} 47'33	3°39'55
desc. node	3012 Apr 10 07:04	26° \mathbb{M} 55'50		minimum elong	3013 Mar 08 16:49	17° \mathbb{M} 47'10	3°39'55
	3012 Apr 16 18:12	0° \mathbb{M}		min. Earth dist.	3013 Mar 11 05:21	15° \mathbb{M} 00'03	0.63449 AU
morning max el	3012 Apr 22 03:39	4° \mathbb{M} 36'40	27°48'43	morning rise	3013 Mar 14 17:03	11° \mathbb{M} 41'58	
	3012 May 11 01:34	0° \mathbb{M}		direct	3013 Mar 21 15:00	8° \mathbb{M} 58'18	
morning set	3012 May 25 03:02	25° \mathbb{M} 58'10		desc. node	3013 Mar 28 04:06	11° \mathbb{M} 00'52	
	3012 May 27 01:39	0° \mathbb{M}		morning max el	3013 Apr 04 11:15	16° \mathbb{M} 55'22	27°42'39
asc. node	3012 May 30 14:59	7° \mathbb{M} 35'41			3013 Apr 15 07:43	0° \mathbb{M}	
max. Earth dist.	3012 May 31 01:05	8° \mathbb{M} 30'30	1.32306 AU		3013 May 03 19:44	0° \mathbb{M}	
				morning set	3013 May 09 00:51	10° \mathbb{M} 03'22	
superior conj	3012 Jun 01 11:41	11° \mathbb{M} 39'08	0°19'32	max. Earth dist.	3013 May 14 05:36	20° \mathbb{M} 45'10	1.32929 AU
minimum elong	3012 Jun 01 10:48	11° \mathbb{M} 34'17	0°19'20				
evening rise	3012 Jun 08 08:41	26° \mathbb{M} 36'01		superior conj	3013 May 16 19:15	26° \mathbb{M} 13'53	-0°07'21
	3012 Jun 09 23:27	0° \mathbb{M}		minimum elong	3013 May 16 19:37	26° \mathbb{M} 15'50	0°07'16
	3012 Jun 27 08:46	0° Ω		behind sun begin	3013 May 16 14:52	25° \mathbb{M} 50'18	

behind sun end	3013 May 17 00:22	26°  41'23		minimum elong	3014 Apr 30 23:37	10°  38'29	0°35'16
asc. node	3013 May 17 12:02	27°  44'15		asc. node	3014 May 04 09:06	17°  48'42	
	3013 May 18 13:11	0°  II		evening rise	3014 May 08 06:57	26°  04'16	
evening rise	3013 May 23 20:29	11°  II24'33			3014 May 10 04:31	0°  II	
	3013 Jun 02 08:59	0°  ☿		evening max el	3014 May 28 12:28	28°  II52'16	21°37'54
evening max el	3013 Jun 15 18:06	18°  ☿17'57	23°11'50		3014 May 29 17:39	0°  ☿	
desc. node	3013 Jun 24 03:22	24°  ☿02'42		retrograde	3014 Jun 09 21:02	4°  ☿56'56	
retrograde	3013 Jun 29 05:47	25°  ☿01'55		desc. node	3014 Jun 11 00:24	4°  ☿53'57	
evening set	3013 Jul 02 22:22	24°  ☿32'07		evening set	3014 Jun 12 08:56	4°  ☿42'52	
min. Earth dist.	3013 Jul 10 03:39	21°  ☿16'08	0.55642 AU	inferior conj	3014 Jun 21 18:27	0°  ☿41'38	-3°01'23
inferior conj	3013 Jul 11 22:43	20°  ☿13'08	-4°26'39	minimum elong	3014 Jun 21 10:42	0°  ☿52'28	2°58'58
minimum elong	3013 Jul 11 15:43	20°  ☿23'25	4°25'19	min. Earth dist.	3014 Jun 21 14:53	0°  ☿46'37	0.54906 AU
morning rise	3013 Jul 20 11:30	16°  ☿19'57			3014 Jun 23 00:23	30°  R  II	
direct	3013 Jul 23 07:59	16°  ☿00'22		morning rise	3014 Jun 30 13:30	26°  II47'18	
morning max el	3013 Aug 03 01:08	20°  ☿58'31	20°28'37	direct	3014 Jul 03 19:15	26°  II24'21	
	3013 Aug 10 09:49	0°  ♊			3014 Jul 13 11:12	0°  ☿	
asc. node	3013 Aug 13 11:14	4°  ♊56'14		morning max el	3014 Jul 16 02:26	2°  ☿11'58	21°58'39
morning set	3013 Aug 21 20:08	20°  ♊56'52		asc. node	3014 Jul 31 08:19	24°  ☿00'10	
	3013 Aug 26 05:24	0°  ♊			3014 Aug 03 10:15	0°  ♊	
				morning set	3014 Aug 06 05:47	5°  ♊46'09	
superior conj	3013 Aug 29 10:05	6°  ♊33'10	1°44'59				
minimum elong	3013 Aug 29 09:58	6°  ♊32'34	1°44'59	superior conj	3014 Aug 13 11:04	21°  ♊01'53	1°40'54
max. Earth dist.	3013 Sep 03 10:53	16°  ♊32'49	1.36249 AU	minimum elong	3014 Aug 13 09:42	20°  ♊54'38	1°40'49
evening rise	3013 Sep 07 10:07	24°  ♊02'51		max. Earth dist.	3014 Aug 17 01:20	28°  ♊28'55	1.34629 AU
	3013 Sep 10 17:09	0°  ♊			3014 Aug 17 19:17	0°  ♊	
desc. node	3013 Sep 20 02:44	15°  ♊40'48		evening rise	3014 Aug 21 13:54	7°  ♊28'02	
	3013 Sep 29 20:25	0°  ♊			3014 Sep 03 07:41	0°  ♊	
evening max el	3013 Oct 13 02:47	15°  ♊49'19	26°05'27	desc. node	3014 Sep 06 23:45	5°  ♊44'37	
retrograde	3013 Oct 25 16:42	22°  ♊57'08		evening max el	3014 Sep 25 15:21	29°  ♊25'08	26°56'39
evening set	3013 Oct 31 22:32	20°  ♊22'20			3014 Sep 26 06:06	0°  ♊	
min. Earth dist.	3013 Nov 05 04:11	15°  ♊50'52	0.66652 AU	retrograde	3014 Oct 08 19:28	6°  ♊41'19	
inferior conj	3013 Nov 06 14:41	14°  ♊03'32	-0°58'01	evening set	3014 Oct 15 13:42	3°  ♊59'19	
minimum elong	3013 Nov 06 16:14	13°  ♊58'44	0°57'22	min. Earth dist.	3014 Oct 19 12:33	0°  ♊04'10	0.65549 AU
asc. node	3013 Nov 09 10:25	10°  ♊44'27			3014 Oct 19 14:02	30°  R  ♊	
morning rise	3013 Nov 12 10:22	8°  ♊12'53		inferior conj	3014 Oct 21 11:00	27°  ♊50'26	-1°57'42
direct	3013 Nov 15 13:33	7°  ♊16'44		minimum elong	3014 Oct 21 14:13	27°  ♊41'08	1°56'24
morning max el	3013 Nov 22 09:22	11°  ♊03'43	18°52'12	asc. node	3014 Oct 27 07:29	22°  ♊22'44	
	3013 Dec 06 03:17	0°  ♊		morning rise	3014 Oct 27 15:31	22°  ♊12'04	
morning set	3013 Dec 14 04:18	12°  ♊35'02		direct	3014 Oct 30 10:23	21°  ♊29'35	
desc. node	3013 Dec 17 01:59	17°  ♊08'38		morning max el	3014 Nov 05 23:05	25°  ♊01'25	18°14'47
	3013 Dec 25 06:43	0°  ♊			3014 Nov 10 02:49	0°  ♊	
max. Earth dist.	3013 Dec 29 07:21	6°  ♊19'13	1.45075 AU	morning set	3014 Nov 24 19:33	23°  ♊02'29	
					3014 Nov 29 02:20	0°  ♊	
superior conj	3013 Dec 30 15:50	8°  ♊26'56	-1°23'43	desc. node	3014 Dec 03 23:02	7°  ♊49'07	
minimum elong	3013 Dec 30 06:49	7°  ♊51'28	1°22'46				
	3014 Jan 13 04:47	0°  ♊		superior conj	3014 Dec 09 18:19	17°  ♊01'47	-0°38'38
evening rise	3014 Jan 14 22:46	2°  ♊49'34		minimum elong	3014 Dec 09 13:23	16°  ♊42'19	0°37'58
	3014 Feb 01 10:38	0°  ♊		max. Earth dist.	3014 Dec 12 02:51	20°  ♊44'22	1.45153 AU
evening max el	3014 Feb 04 18:01	3°  ♊52'49	18°42'11		3014 Dec 18 00:44	0°  ♊	
asc. node	3014 Feb 05 09:45	4°  ♊31'29		evening rise	3014 Dec 26 01:52	12°  ♊33'36	
retrograde	3014 Feb 11 09:41	7°  ♊34'52			3015 Jan 06 07:44	0°  ♊	
evening set	3014 Feb 14 14:12	6°  ♊37'04		greatest brilliancy	3015 Jan 06 19:44	0°  ♊45'42	-0.7m
inferior conj	3014 Feb 20 07:26	0°  ♊58'48	3°34'09	evening max el	3015 Jan 19 02:05	17°  ♊22'45	19°25'53
minimum elong	3014 Feb 20 06:06	1°  ♊02'50	3°34'02	asc. node	3015 Jan 23 06:46	20°  ♊42'34	
	3014 Feb 21 02:42	30°  R  ♊		retrograde	3015 Jan 26 06:21	21°  ♊30'30	
min. Earth dist.	3014 Feb 22 04:27	28°  ♊42'11	0.65144 AU	evening set	3015 Jan 29 17:53	20°  ♊19'35	
morning rise	3014 Feb 25 21:34	24°  ♊48'10		inferior conj	3015 Feb 04 06:03	14°  ♊25'33	3°14'50
direct	3014 Mar 04 14:05	21°  ♊56'45		minimum elong	3015 Feb 04 03:50	14°  ♊32'47	3°14'25
desc. node	3014 Mar 15 01:09	27°  ♊04'39		min. Earth dist.	3015 Feb 05 12:02	12°  ♊48'02	0.66428 AU
morning max el	3014 Mar 17 20:52	29°  ♊43'48	27°02'55	morning rise	3015 Feb 09 13:34	8°  ♊12'34	
	3014 Mar 18 03:16	0°  ♊		direct	3015 Feb 15 19:14	5°  ♊26'36	
	3014 Apr 09 05:46	0°  ♊		morning max el	3015 Feb 28 06:28	12°  ♊51'02	25°57'05
morning set	3014 Apr 22 13:03	23°  ♊36'06		desc. node	3015 Mar 01 22:13	14°  ♊34'52	
	3014 Apr 25 19:11	0°  ♊			3015 Mar 14 02:44	0°  ♊	
max. Earth dist.	3014 Apr 27 00:49	2°  ♊29'17	1.34005 AU		3015 Apr 01 22:33	0°  ♊	
				morning set	3015 Apr 05 11:38	6°  ♊25'04	
superior conj	3014 Apr 30 21:47	10°  ♊28'52	-0°35'39	max. Earth dist.	3015 Apr 09 08:46	13°  ♊44'22	1.35539 AU

superior conj	2015 Apr 14 16:46	24°♿17'06	-1°04'01		3016 Mar 24 02:44	0°♿	
minimum elong	2015 Apr 14 20:05	24°♿33'53	1°03'27				
	2015 Apr 17 11:58	0°♿		superior conj	2016 Mar 28 00:55	7°♿28'47	-1°30'31
asc. node	2015 Apr 21 06:08	7°♿45'06		minimum elong	2016 Mar 28 05:18	7°♿49'59	1°29'56
evening rise	2015 Apr 22 14:04	10°♿29'06		evening rise	2016 Apr 05 15:22	24°♿30'53	
	2015 May 03 00:36	0°♿		asc. node	2016 Apr 07 03:09	27°♿28'06	
evening max el	2015 May 10 17:29	9°♿58'01	20°17'03		2016 Apr 08 10:12	0°♿	
retrograde	2015 May 21 10:44	15°♿10'51		evening max el	2016 Apr 22 10:21	21°♿43'52	19°14'54
evening set	2015 May 23 10:52	15°♿00'40		retrograde	2016 May 01 11:15	26°♿07'04	
desc. node	2015 May 28 21:24	13°♿05'19		evening set	2016 May 03 12:37	25°♿54'23	
inferior conj	2015 Jun 01 13:34	11°♿02'12	-1°04'48	inferior conj	2016 May 11 21:54	21°♿44'48	0°49'10
minimum elong	2015 Jun 01 10:31	11°♿06'41	1°03'41	minimum elong	2016 May 11 23:53	21°♿41'29	0°48'29
min. Earth dist.	2015 Jun 03 03:24	10°♿06'36	0.55119 AU	desc. node	2016 May 14 18:26	19°♿50'47	
morning rise	2015 Jun 10 08:51	6°♿46'46		min. Earth dist.	2016 May 14 18:19	19°♿50'58	0.56249 AU
direct	2015 Jun 14 06:25	6°♿13'53		morning rise	2016 May 20 08:07	16°♿54'56	
morning max el	2015 Jun 27 19:23	12°♿50'18	23°40'12	direct	2016 May 25 04:44	16°♿00'26	
	2015 Jul 10 21:23	0°♿		morning max el	2016 Jun 08 09:40	23°♿15'26	25°20'13
asc. node	2015 Jul 18 05:24	13°♿29'24			2016 Jun 14 11:01	0°♿	
morning set	2015 Jul 21 17:18	20°♿41'03			2016 Jul 02 12:19	0°♿	
	2015 Jul 26 01:34	0°♿		asc. node	2016 Jul 04 02:27	3°♿16'14	
				morning set	2016 Jul 05 05:00	5°♿35'36	
superior conj	2015 Jul 28 17:50	5°♿47'24	1°30'51	superior conj	2016 Jul 12 04:01	20°♿41'41	1°15'52
minimum elong	2015 Jul 28 15:42	5°♿35'54	1°30'38	minimum elong	2016 Jul 12 01:39	20°♿28'42	1°15'30
max. Earth dist.	2015 Jul 31 00:51	10°♿41'53	1.33399 AU	max. Earth dist.	2016 Jul 13 07:38	23°♿12'37	1.32576 AU
evening rise	2015 Aug 05 05:53	21°♿28'35			2016 Jul 16 11:07	0°♿	
	2015 Aug 09 15:07	0°♿		evening rise	2016 Jul 19 06:34	5°♿53'47	
desc. node	2015 Aug 24 20:45	25°♿20'47			2016 Aug 01 05:00	0°♿	
	2015 Aug 28 04:35	0°♿		desc. node	2016 Aug 10 17:46	14°♿17'45	
evening max el	2015 Sep 08 02:57	12°♿43'36	27°23'37	evening max el	2016 Aug 20 11:34	25°♿32'18	27°20'37
retrograde	2015 Sep 21 16:17	20°♿01'23			2016 Aug 26 01:19	0°♿	
evening set	2015 Sep 28 19:09	17°♿20'51		retrograde	2016 Sep 03 06:49	2°♿48'02	
min. Earth dist.	2015 Oct 02 12:11	14°♿00'19	0.64092 AU	evening set	2016 Sep 10 11:22	0°♿20'58	
inferior conj	2015 Oct 04 23:09	11°♿26'07	-2°57'15		2016 Sep 10 23:28	30°♿♿	
minimum elong	2015 Oct 05 03:56	11°♿13'35	2°55'35	min. Earth dist.	2016 Sep 14 01:38	27°♿28'32	0.62304 AU
morning rise	2015 Oct 11 13:54	6°♿03'22		inferior conj	2016 Sep 17 00:15	24°♿43'55	-3°52'54
direct	2015 Oct 14 02:51	5°♿30'59		minimum elong	2016 Sep 17 05:54	24°♿30'43	3°51'22
asc. node	2015 Oct 14 04:34	5°♿31'00		morning rise	2016 Sep 24 02:02	19°♿40'00	
morning max el	2015 Oct 20 15:22	8°♿56'32	17°54'28	direct	2016 Sep 26 11:44	19°♿14'23	
	2015 Nov 03 18:30	0°♿		asc. node	2016 Sep 30 01:37	20°♿12'55	
morning set	2015 Nov 06 14:28	4°♿50'27		morning max el	2016 Oct 03 07:13	22°♿42'11	17°52'09
					2016 Oct 08 23:48	0°♿	
superior conj	2015 Nov 19 12:14	26°♿25'43	0°09'04	morning set	2016 Oct 19 07:06	17°♿40'54	
minimum elong	2015 Nov 19 13:15	26°♿29'52	0°08'55		2016 Oct 26 05:23	0°♿	
behind sun begin	2015 Nov 19 04:48	25°♿55'28		superior conj	2016 Oct 30 08:27	7°♿07'47	0°49'24
behind sun end	2015 Nov 19 21:43	27°♿04'13		minimum elong	2016 Oct 30 12:31	7°♿25'08	0°48'51
desc. node	2015 Nov 20 20:03	28°♿34'36		max. Earth dist.	2016 Nov 06 11:59	19°♿01'34	1.43195 AU
	2015 Nov 21 17:13	0°♿		desc. node	2016 Nov 06 17:04	19°♿22'11	
max. Earth dist.	2015 Nov 24 21:21	5°♿04'21	1.44496 AU		2016 Nov 13 09:11	0°♿	
evening rise	2015 Dec 05 13:14	21°♿43'26		evening rise	2016 Nov 13 23:57	0°♿57'37	
	2015 Dec 10 23:10	0°♿			2016 Dec 03 13:37	0°♿	
	2016 Jan 01 08:54	0°♿		evening max el	2016 Dec 15 02:27	14°♿25'07	21°35'15
evening max el	2016 Jan 02 05:03	0°♿53'19	20°24'37	retrograde	2016 Dec 24 01:48	19°♿45'19	
retrograde	2016 Jan 10 04:25	5°♿34'59		asc. node	2016 Dec 27 00:50	18°♿57'24	
asc. node	2016 Jan 10 03:48	5°♿34'59		evening set	2016 Dec 28 08:08	18°♿04'43	
evening set	2016 Jan 14 00:27	4°♿09'49		inferior conj	2017 Jan 02 16:29	11°♿48'05	2°06'48
	2016 Jan 17 22:46	30°♿♿		minimum elong	2017 Jan 02 14:07	11°♿56'19	2°06'00
inferior conj	2016 Jan 19 09:49	28°♿02'49	2°45'01	min. Earth dist.	2017 Jan 02 20:59	11°♿32'32	0.67792 AU
minimum elong	2016 Jan 19 07:16	28°♿11'30	2°44'20	morning rise	2017 Jan 07 19:55	5°♿35'47	
min. Earth dist.	2016 Jan 20 02:18	27°♿06'46	0.67303 AU	direct	2017 Jan 12 20:53	3°♿25'27	
morning rise	2016 Jan 24 13:53	21°♿49'18		morning max el	2017 Jan 23 00:19	9°♿26'52	23°05'46
direct	2016 Jan 30 05:42	19°♿18'20		desc. node	2017 Feb 02 16:16	22°♿20'25	
morning max el	2016 Feb 10 15:05	26°♿06'28	24°34'37		2017 Feb 08 04:01	0°♿	
	2016 Feb 14 05:05	0°♿		morning set	2017 Feb 26 17:25	28°♿47'49	
desc. node	2016 Feb 16 19:14	3°♿05'50			2017 Feb 27 10:40	0°♿	
	2016 Mar 06 16:27	0°♿		max. Earth dist.	2017 Mar 03 01:37	6°♿10'09	1.39620 AU
morning set	2016 Mar 17 15:09	18°♿14'15					
max. Earth dist.	2016 Mar 21 06:52	24°♿46'40	1.37467 AU				

superior conj	2017 Mar 10 18:12	19° K 54'13	-1°52'11		3018 Feb 19 20:54	0° K	
minimum elong	2017 Mar 10 22:27	20° K 13'48	1°51'50				
	2017 Mar 16 03:17	0° Y		superior conj	2018 Feb 20 15:36	1° K 21'22	-2°04'56
evening rise	2017 Mar 20 07:56	8° Y 02'14		minimum elong	2018 Feb 20 17:29	1° K 29'35	2°04'52
asc. node	2017 Mar 25 00:10	16° Y 52'41		evening rise	2018 Mar 03 12:13	20° K 54'35	
	2017 Apr 02 00:20	0° B			2018 Mar 08 12:02	0° Y	
evening max el	2017 Apr 05 13:00	4° B 06'49	18°32'55	asc. node	2018 Mar 11 21:11	5° Y 52'27	
retrograde	2017 Apr 13 05:45	7° B 53'43		evening max el	2018 Mar 19 22:05	16° Y 57'48	18°10'58
evening set	2017 Apr 15 13:18	7° B 34'21		retrograde	2018 Mar 26 18:33	20° Y 25'09	
inferior conj	2017 Apr 23 02:52	3° B 06'10	2°15'56	evening set	2018 Mar 29 08:23	19° Y 56'31	
minimum elong	2017 Apr 23 06:42	2° B 58'40	2°14'52	inferior conj	2018 Apr 05 04:41	15° Y 07'21	3°09'48
min. Earth dist.	2017 Apr 26 12:48	0° B 27'20	0.58057 AU	minimum elong	2018 Apr 05 07:42	15° Y 00'28	3°09'16
	2017 Apr 27 03:48	30° R Y		min. Earth dist.	2018 Apr 08 12:49	12° Y 06'28	0.60189 AU
morning rise	2017 Apr 30 21:00	27° Y 43'29		morning rise	2018 Apr 12 04:48	9° Y 21'13	
desc. node	2017 May 01 15:27	27° Y 22'18		direct	2018 Apr 18 18:47	7° Y 17'59	
direct	2017 May 06 17:38	26° Y 16'01		desc. node	2018 Apr 18 12:28	7° Y 18'10	
	2017 May 16 12:29	0° B		morning max el	2018 May 03 01:55	15° Y 09'33	27°35'18
morning max el	2017 May 21 02:49	3° B 55'00	26°42'53		2018 May 15 02:38	0° B	
	2017 Jun 09 01:28	0° II			2018 Jun 01 11:07	0° II	
morning set	2017 Jun 19 15:17	20° II 24'35		morning set	2018 Jun 03 22:26	5° II 02'25	
asc. node	2017 Jun 20 23:28	23° II 15'09		asc. node	2018 Jun 07 20:29	13° II 21'28	
	2017 Jun 24 02:12	0° E		max. Earth dist.	2018 Jun 10 06:31	18° II 37'50	1.32138 AU
superior conj	2017 Jun 26 15:42	5° E 38'15	0°56'41	superior conj	2018 Jun 11 03:12	20° II 31'22	0°33'58
minimum elong	2017 Jun 26 13:34	5° E 26'30	0°56'17	minimum elong	2018 Jun 11 01:44	20° II 23'20	0°33'40
max. Earth dist.	2017 Jun 26 18:43	5° E 54'53	1.32159 AU		2018 Jun 15 10:52	0° E	
evening rise	2017 Jul 03 13:08	20° E 35'04		evening rise	2018 Jun 17 23:19	5° E 25'00	
	2017 Jul 08 04:19	0° O			2018 Jun 30 22:34	0° O	
	2017 Jul 26 17:20	0° P		desc. node	2018 Jul 15 11:47	19° O 01'37	
desc. node	2017 Jul 28 14:47	2° P 18'54		evening max el	2018 Jul 15 10:57	18° O 59'38	25°36'56
evening max el	2017 Aug 02 14:50	7° P 39'30	26°44'24	retrograde	2018 Jul 29 10:44	26° O 06'54	
retrograde	2017 Aug 16 13:37	14° P 51'29		evening set	2018 Aug 04 09:48	24° O 43'29	
evening set	2017 Aug 23 09:48	12° P 51'18		min. Earth dist.	2018 Aug 08 23:05	22° O 04'22	0.58243 AU
min. Earth dist.	2017 Aug 27 04:47	10° P 14'13	0.60290 AU	inferior conj	2018 Aug 12 03:34	19° O 48'55	-5°03'19
inferior conj	2017 Aug 30 10:52	7° P 34'40	-4°38'21	minimum elong	2018 Aug 12 05:04	19° O 46'15	5°03'16
minimum elong	2017 Aug 30 15:45	7° P 24'38	4°37'32	morning rise	2018 Aug 20 02:37	15° O 29'17	
morning rise	2017 Sep 06 23:41	2° P 52'15		direct	2018 Aug 22 14:49	15° O 09'30	
direct	2017 Sep 09 09:06	2° P 30'37		morning max el	2018 Aug 31 00:38	19° O 09'02	18°46'19
asc. node	2017 Sep 16 22:40	6° P 17'19		asc. node	2018 Sep 03 19:42	23° O 29'25	
morning max el	2017 Sep 16 19:22	6° P 09'18	18°08'59		2018 Sep 08 03:14	0° P	
	2017 Oct 01 23:13	0° A		morning set	2018 Sep 16 10:42	15° P 22'50	
morning set	2017 Oct 02 15:24	1° A 15'58			2018 Sep 23 23:04	0° A	
superior conj	2017 Oct 12 06:20	19° A 04'41	1°18'26	superior conj	2018 Sep 25 00:50	2° A 02'28	1°36'12
minimum elong	2017 Oct 12 10:25	19° A 23'02	1°18'00	minimum elong	2018 Sep 25 03:26	2° A 14'47	1°36'01
	2017 Oct 18 11:55	0° M		max. Earth dist.	2018 Oct 02 02:56	15° A 01'55	1.39379 AU
max. Earth dist.	2017 Oct 19 21:32	2° M 22'34	1.41415 AU	evening rise	2018 Oct 06 02:31	21° A 56'28	
desc. node	2017 Oct 24 14:05	10° M 08'08			2018 Oct 10 23:03	0° M	
evening rise	2017 Oct 25 01:43	10° M 55'14		desc. node	2018 Oct 11 11:08	0° M 48'50	
	2017 Nov 06 09:57	0° J			2018 Oct 31 09:47	0° J	
evening max el	2017 Nov 27 19:01	27° J 59'14	22°53'22	evening max el	2018 Nov 10 08:27	11° J 37'12	24°13'07
	2017 Nov 29 22:10	0° Z		retrograde	2018 Nov 21 12:17	18° J 09'42	
retrograde	2017 Dec 07 20:49	3° Z 57'55		evening set	2018 Nov 26 20:16	15° J 56'14	
evening set	2017 Dec 12 15:15	2° Z 00'57		asc. node	2018 Nov 30 18:55	11° J 32'32	
asc. node	2017 Dec 13 21:52	0° Z 49'07		min. Earth dist.	2018 Dec 01 13:48	10° J 29'45	0.67702 AU
	2017 Dec 14 15:49	30° R J		inferior conj	2018 Dec 02 07:02	9° J 31'43	0°30'49
min. Earth dist.	2017 Dec 17 17:36	26° J 00'59	0.67921 AU	minimum elong	2018 Dec 02 06:18	9° J 34'12	0°30'30
inferior conj	2017 Dec 18 00:09	25° J 38'23	1°21'40	morning rise	2018 Dec 07 16:21	3° J 28'00	
minimum elong	2017 Dec 17 22:23	25° J 44'27	1°20'58	direct	2018 Dec 11 13:12	2° J 02'40	
morning rise	2017 Dec 23 05:24	19° J 29'16		morning max el	2018 Dec 19 10:13	6° J 33'27	20°23'40
direct	2017 Dec 27 15:47	17° J 41'44			2019 Jan 05 22:23	0° Z	
morning max el	2018 Jan 05 13:38	22° J 54'27	21°39'52	desc. node	2019 Jan 07 10:21	2° Z 14'27	
	2018 Jan 11 16:47	0° Z		morning set	2019 Jan 16 13:40	16° Z 10'36	
desc. node	2018 Jan 20 13:18	12° Z 06'06			2019 Jan 25 08:28	0° A	
	2018 Feb 01 12:47	0° A		max. Earth dist.	2019 Jan 26 08:14	1° A 35'24	1.43492 AU
morning set	2018 Feb 06 14:32	7° A 57'43					
max. Earth dist.	2018 Feb 13 00:49	18° A 24'12	1.41724 AU	superior conj	2019 Feb 01 12:18	11° A 39'39	-2°03'37

minimum elong	2019 Feb 01 09:06	11°  26'22	2°03'31	desc. node	2019 Dec 25 07:25	22°  39'11	
	2019 Feb 12 06:52	0° 		morning set	2019 Dec 26 13:18	24°  34'56	
evening rise	2019 Feb 14 00:02	2°  59'35			2019 Dec 30 01:02	0° 	
asc. node	2019 Feb 26 18:13	24°  19'17		max. Earth dist.	2020 Jan 08 22:32	15°  29'48	1.44692 AU
	2019 Mar 03 07:20	0° 					
evening max el	2019 Mar 03 10:16	0°  07'21	18°08'24	superior conj	2020 Jan 12 07:27	20°  50'39	-1°43'45
retrograde	2019 Mar 09 21:42	3°  30'38		minimum elong	2020 Jan 11 23:06	20°  17'26	1°43'05
evening set	2019 Mar 12 17:06	2°  51'22			2020 Jan 18 00:11	0° 	
	2019 Mar 16 16:31	30°  16'31		evening rise	2020 Jan 26 15:15	14°  10'36	
inferior conj	2019 Mar 19 00:02	27°  41'41	3°35'23		2020 Feb 05 05:08	0° 	
minimum elong	2019 Mar 19 01:13	27°  38'35	3°35'18	asc. node	2020 Feb 13 15:16	12°  03'41	
min. Earth dist.	2019 Mar 21 20:59	24°  43'30	0.62319 AU	evening max el	2020 Feb 14 22:44	13°  28'56	18°24'37
morning rise	2019 Mar 25 08:03	21°  41'12		retrograde	2020 Feb 21 10:37	17°  01'09	
direct	2019 Apr 01 05:35	19°  09'00		evening set	2020 Feb 24 11:32	16°  10'28	
desc. node	2019 Apr 05 09:31	19°  58'31		inferior conj	2020 Mar 01 08:50	10°  41'59	3°39'22
morning max el	2019 Apr 15 07:05	27°  05'56	27°50'47	minimum elong	2020 Mar 01 08:17	10°  43'34	3°39'22
	2019 Apr 18 01:00	0° 		min. Earth dist.	2020 Mar 03 14:47	8°  06'14	0.64211 AU
	2019 May 08 18:14	0° 		morning rise	2020 Mar 07 04:22	4°  33'34	
morning set	2019 May 19 00:20	19°  21'22		direct	2020 Mar 14 00:37	1°  45'06	
	2019 May 24 02:33	0° 		desc. node	2020 Mar 22 06:33	4°  58'23	
max. Earth dist.	2019 May 24 15:03	1°  07'06	1.32518 AU	morning max el	2020 Mar 27 16:10	9°  39'37	27°29'36
asc. node	2019 May 25 17:31	3°  29'58			2020 Apr 12 14:13	0° 	
					2020 Apr 30 02:43	0° 	
superior conj	2019 May 26 12:41	5°  13'54	0°08'24	morning set	2020 May 01 18:29	3°  13'45	
minimum elong	2019 May 26 12:17	5°  11'44	0°08'19	max. Earth dist.	2020 May 06 16:12	13°  10'02	1.33330 AU
behind sun begin	2019 May 26 07:50	4°  47'37					
behind sun end	2019 May 26 16:43	5°  35'53		superior conj	2020 May 09 18:20	19°  40'25	-0°19'14
evening rise	2019 Jun 02 11:03	20°  15'31		minimum elong	2020 May 09 19:19	19°  45'34	0°19'02
	2019 Jun 07 04:51	0° 		asc. node	2020 May 11 14:35	23°  08'52	
evening max el	2019 Jun 27 01:05	29°  39'13	24°07'26		2020 May 14 13:59	0° 	
	2019 Jun 27 09:48	0° 		evening rise	2020 May 16 22:31	5°  00'33	
desc. node	2019 Jul 02 08:48	3°  05'41			2020 May 30 11:45	0° 	
retrograde	2019 Jul 10 20:15	6°  03'18		evening max el	2020 Jun 07 15:25	10°  04'59	22°30'49
evening set	2019 Jul 15 10:12	5°  04'45		desc. node	2020 Jun 18 05:48	16°  21'02	
min. Earth dist.	2019 Jul 21 11:40	2°  05'12	0.56439 AU	retrograde	2020 Jun 20 17:45	16°  35'22	
inferior conj	2019 Jul 24 00:02	1°  01'51	-4°53'32	evening set	2020 Jun 23 20:20	16°  14'04	
minimum elong	2019 Jul 23 19:53	1°  02'41	4°53'06	min. Earth dist.	2020 Jul 01 22:44	12°  42'39	0.55217 AU
	2019 Jul 26 03:16	30°  16'16		inferior conj	2020 Jul 03 02:20	12°  03'26	-3°56'01
morning rise	2019 Aug 01 08:12	27°  18'13		minimum elong	2020 Jul 02 18:14	12°  14'59	3°54'02
direct	2019 Aug 04 01:17	26°  18'57		morning rise	2020 Jul 11 18:16	8°  12'24	
	2019 Aug 12 00:49	0° 		direct	2020 Jul 14 17:55	7°  15'04	
morning max el	2019 Aug 13 20:01	1°  03'13	19°45'13	morning max el	2020 Jul 26 03:53	13°  10'21	21°04'59
asc. node	2019 Aug 21 16:46	11°  03'40			2020 Aug 07 09:35	0° 	
morning set	2019 Aug 31 13:28	29°  05'11		asc. node	2020 Aug 07 13:50	0° 	
	2019 Aug 31 15:12	0° 		morning set	2020 Aug 14 21:11	14°  03'24	
superior conj	2019 Sep 08 10:30	15°  45'17	1°44'10	superior conj	2020 Aug 22 06:55	0° 	
minimum elong	2019 Sep 08 11:19	15°  49'19	1°44'09	minimum elong	2020 Aug 22 06:12	29°  05'38	1°44'02
max. Earth dist.	2019 Sep 14 07:34	27°  05'57	1.37334 AU		2020 Aug 22 06:51	0° 	
	2019 Sep 15 21:06	0° 		max. Earth dist.	2020 Aug 26 16:52	8°  56'26	1.35511 AU
evening rise	2019 Sep 18 02:12	4°  01'01		evening rise	2020 Aug 30 21:01	17°  00'05	
desc. node	2019 Sep 28 08:10	21°  19'37			2020 Sep 07 02:42	0° 	
	2019 Oct 03 23:29	0° 		desc. node	2020 Sep 14 05:11	11°  03'50	
evening max el	2019 Oct 23 20:38	25°  17'54	25°27'44		2020 Sep 27 08:07	0° 	
	2019 Oct 29 13:10	0° 		evening max el	2020 Oct 05 08:50	8°  57'01	26°29'43
retrograde	2019 Nov 04 23:27	2°  16'00		retrograde	2020 Oct 18 05:36	16°  10'16	
evening set	2019 Nov 10 21:32	29°  14'39		evening set	2020 Oct 24 17:03	13°  11'13	
	2019 Nov 10 15:36	30°  14'36		min. Earth dist.	2020 Oct 28 19:37	9°  15'23	0.66224 AU
min. Earth dist.	2019 Nov 15 07:15	24°  55'59	0.67135 AU	inferior conj	2020 Oct 30 11:13	7°  15'55	-1°23'14
inferior conj	2019 Nov 16 11:22	23°  25'28	-0°24'35	minimum elong	2020 Oct 30 13:28	7°  09'06	1°22'16
minimum elong	2019 Nov 16 12:00	23°  23'25	0°24'19	asc. node	2020 Nov 03 13:02	2°  51'28	
asc. node	2019 Nov 17 15:58	21°  15'54		morning rise	2020 Nov 05 10:29	1°  13'01	
morning rise	2019 Nov 22 02:45	17°  29'31		direct	2020 Nov 08 09:45	0° 	
direct	2019 Nov 25 11:46	16° 23'50		morning max el	2020 Nov 15 01:50	4° 20'11	18°34'13
morning max el	2019 Dec 02 14:46	20° 23'39	19°21'10		2020 Dec 02 20:34	0°	
	2019 Dec 10 07:19	0°		morning set	2020 Dec 05 11:28	4° 10'40	
greatest brilliancy	2019 Dec 16 03:50	8° 36'42	-0.7m	desc. node	2020 Dec 11 04:27	13° 14'49	

superior conj	2020 Dec 21 10:24	29°  22'58	-1°05'43	superior conj	2021 Nov 30 17:21	8°  13'23	-0°18'01
minimum elong	2020 Dec 21 02:27	28°  51'46	1°04'45	minimum elong	2021 Nov 30 15:06	8°  04'26	0°17'43
max. Earth dist.	2020 Dec 21 16:27	29°  46'44	1.45195 AU	max. Earth dist.	2021 Dec 04 11:26	14°  10'17	1.44963 AU
	2020 Dec 21 19:50	0°  3			2021 Dec 14 14:47	0°  3	
evening rise	2021 Jan 06 07:05	24°  23'44		evening rise	2021 Dec 17 02:04	3°  49'21	
	2021 Jan 09 19:36	0°  ≈		greatest brilliancy	2021 Dec 30 16:08	24°  34'13	-0.7m
greatest brilliancy	2021 Jan 15 03:02	8°  ≈25'12	-0.8m		2022 Jan 03 09:23	0°  ≈	
evening max el	2021 Jan 28 08:56	26°  ≈56'28	18°58'46	evening max el	2022 Jan 11 15:01	10°  ≈26'58	19°49'12
asc. node	2021 Jan 30 12:19	28°  ≈52'39		asc. node	2022 Jan 17 09:21	14°  ≈31'53	
	2021 Feb 01 05:32	0°  ✕		retrograde	2022 Jan 19 02:45	14°  ≈48'09	
retrograde	2021 Feb 04 05:19	0°  ✕48'40		evening set	2022 Jan 22 17:40	13°  ≈31'28	
	2021 Feb 07 02:52	30°  R≈		inferior conj	2022 Jan 28 04:25	7°  ≈31'50	3°03'17
evening set	2021 Feb 07 12:32	29°  ≈45'37		minimum elong	2022 Jan 28 02:00	7°  ≈39'54	3°02'45
inferior conj	2021 Feb 13 03:19	24°  ≈00'22	3°27'22	min. Earth dist.	2022 Jan 29 04:34	6°  ≈11'36	0.66858 AU
minimum elong	2021 Feb 13 01:32	24°  ≈05'57	3°27'09	morning rise	2022 Feb 02 10:06	1°  ≈18'22	
min. Earth dist.	2021 Feb 14 17:50	21°  ≈59'31	0.65740 AU		2022 Feb 04 02:15	30°  R3	
morning rise	2021 Feb 18 14:11	17°  ≈48'12		direct	2022 Feb 08 10:14	28°  37'31	
direct	2021 Feb 25 02:32	14°  ≈57'28			2022 Feb 13 05:08	0°  ≈	
desc. node	2021 Mar 09 03:36	21°  ≈42'05		morning max el	2022 Feb 20 10:59	5°  ≈48'07	25°23'12
morning max el	2021 Mar 10 02:04	22°  ≈37'31	26°37'28	desc. node	2022 Feb 24 00:39	9°  ≈40'20	
	2021 Mar 16 14:20	0°  ✕			2022 Mar 11 03:57	0°  ✕	
	2021 Apr 05 20:48	0°  Y		morning set	2022 Mar 28 16:34	28°  ✕54'12	
morning set	2021 Apr 15 01:26	16°  Y29'06			2022 Mar 29 07:04	0°  Y	
max. Earth dist.	2021 Apr 19 06:27	24°  Y39'10	1.34599 AU	max. Earth dist.	2022 Apr 01 09:15	5°  Y43'12	1.36320 AU
	2021 Apr 21 22:14	0°  8					
superior conj	2021 Apr 23 17:57	3°  844'16	-0°47'47	superior conj	2022 Apr 07 08:45	17°  Y17'56	-1°15'40
minimum elong	2021 Apr 23 20:26	3°  857'06	0°47'19	minimum elong	2022 Apr 07 12:37	17°  Y37'06	1°15'03
asc. node	2021 Apr 28 11:38	13°  837'55			2022 Apr 13 15:32	0°  8	
evening rise	2021 May 01 07:46	19°  833'55		asc. node	2022 Apr 15 08:39	3°  828'54	
	2021 May 06 12:36	0°  II		evening rise	2022 Apr 15 12:41	3°  849'16	
evening max el	2021 May 20 13:49	20°  II49'53	21°01'28		2022 Apr 30 22:24	0°  II	
retrograde	2021 Jun 01 06:59	26°  II33'22		evening max el	2022 May 03 00:06	2°  II12'43	19°48'11
evening set	2021 Jun 03 11:25	26°  II22'10		retrograde	2022 May 12 23:21	7°  II02'39	
desc. node	2021 Jun 05 02:48	25°  II59'52		evening set	2022 May 14 23:04	6°  II51'59	
inferior conj	2021 Jun 12 19:55	22°  II24'19	-2°13'51	desc. node	2022 May 22 23:49	3°  II20'13	
minimum elong	2021 Jun 12 13:44	22°  II33'03	2°11'43	inferior conj	2022 May 23 19:10	2°  II50'33	-0°14'11
min. Earth dist.	2021 Jun 13 10:44	22°  II03'22	0.54869 AU	minimum elong	2022 May 23 18:31	2°  II51'32	0°13'56
morning rise	2021 Jun 21 15:59	18°  II22'53		transit middle	2022 May 23 18:31	2°  II51'32	0°13'56
direct	2021 Jun 25 03:17	17°  II56'53		transit begin	2022 May 23 16:36	2°  II54'31	
morning max el	2021 Jul 08 01:06	24°  II06'52	22°41'10	transit end	2022 May 23 20:27	2°  II48'34	
	2021 Jul 13 09:01	0°  ☿		min. Earth dist.	2022 May 26 00:09	1°  II29'07	0.55498 AU
asc. node	2021 Jul 25 10:54	19°  ☿34'17			2022 May 28 14:46	30°  R8	
morning set	2021 Jul 30 07:49	29°  ☿26'26		morning rise	2022 Jun 01 11:42	28°  821'18	
	2021 Jul 30 14:13	0°  Ω		direct	2022 Jun 05 18:48	27°  840'30	
					2022 Jun 13 16:30	0°  II	
superior conj	2021 Aug 06 10:41	14°  Ω37'15	1°37'18	morning max el	2022 Jun 19 15:54	4°  II35'12	24°23'55
minimum elong	2021 Aug 06 08:55	14°  Ω27'53	1°37'10		2022 Jul 07 14:46	0°  ☿	
max. Earth dist.	2021 Aug 09 10:55	20°  Ω57'22	1.34048 AU	asc. node	2022 Jul 12 07:55	9°  ☿11'23	
	2021 Aug 13 21:57	0°  ☿		morning set	2022 Jul 14 19:35	14°  ☿21'20	
evening rise	2021 Aug 14 06:28	0°  ☿41'54		superior conj	2022 Jul 21 19:06	29°  ☿26'53	1°25'03
	2021 Aug 31 02:43	0°  Ω		minimum elong	2022 Jul 21 16:49	29°  ☿14'25	1°24'46
desc. node	2021 Sep 01 02:10	1°  Ω28'21			2022 Jul 22 01:12	0°  Ω	
evening max el	2021 Sep 17 21:11	22°  Ω27'19	27°11'33	max. Earth dist.	2022 Jul 23 13:53	3°  Ω18'17	1.32997 AU
retrograde	2021 Oct 01 06:10	29°  Ω45'31		evening rise	2022 Jul 29 02:32	14°  Ω54'01	
evening set	2021 Oct 08 04:30	27°  Ω03'00			2022 Aug 05 23:34	0°  ☿	
min. Earth dist.	2021 Oct 12 00:39	23°  Ω22'48	0.64966 AU	desc. node	2022 Aug 18 23:10	20°  ☿49'18	
inferior conj	2021 Oct 14 04:24	20°  Ω59'17	-2°23'10		2022 Aug 26 01:44	0°  Ω	
minimum elong	2021 Oct 14 08:20	20°  Ω48'23	2°21'39	evening max el	2022 Aug 31 08:03	5°  Ω35'26	27°26'26
morning rise	2021 Oct 20 13:07	15°  Ω27'02		retrograde	2022 Sep 14 00:18	12°  Ω52'04	
asc. node	2021 Oct 21 10:05	15°  Ω06'29		evening set	2022 Sep 21 04:46	10°  Ω16'03	
direct	2021 Oct 23 05:04	14°  Ω49'23		min. Earth dist.	2022 Sep 24 20:13	7°  Ω08'19	0.63365 AU
morning max el	2021 Oct 29 17:00	18°  Ω17'53	18°03'57	inferior conj	2022 Sep 27 12:14	4°  Ω28'28	-3°21'37
	2021 Nov 07 08:27	0°  ♌		minimum elong	2022 Sep 27 17:31	4°  Ω15'16	3°19'57
morning set	2021 Nov 16 15:09	15°  ♌14'39			2022 Oct 02 17:57	30°  R☿	
	2021 Nov 25 14:32	0°  ♌		morning rise	2022 Oct 04 07:35	29°  ☿12'59	
desc. node	2021 Nov 28 01:29	3°  ♌57'54		direct	2022 Oct 06 18:50	28°  ☿43'46	

asc. node	2022 Oct 08 07:07	28° \mathbb{M} 54'58			2023 Oct 06 21:24	0° \mathbb{L}	
	2022 Oct 10 18:02	0° \mathbb{L}		morning set	2023 Oct 12 20:05	10° \mathbb{L} 42'57	
morning max el	2022 Oct 13 09:23	2° \mathbb{L} 09'23	17°51'12				
morning set	2022 Oct 29 20:10	27° \mathbb{L} 31'55		superior conj	2023 Oct 23 05:29	29° \mathbb{L} 23'50	1°03'09
	2022 Oct 31 06:08	0° \mathbb{M}		minimum elong	2023 Oct 23 09:50	29° \mathbb{L} 42'50	1°02'37
					2023 Oct 23 13:47	0° \mathbb{M}	
superior conj	2022 Nov 10 21:54	18° \mathbb{M} 08'53	0°27'25	max. Earth dist.	2023 Oct 30 17:53	12° \mathbb{M} 08'26	1.42488 AU
minimum elong	2022 Nov 11 00:40	18° \mathbb{M} 20'19	0°27'02	desc. node	2023 Nov 01 19:31	15° \mathbb{M} 31'34	
desc. node	2022 Nov 14 22:30	24° \mathbb{M} 44'33		evening rise	2023 Nov 06 02:36	22° \mathbb{M} 24'38	
max. Earth dist.	2022 Nov 17 04:50	28° \mathbb{M} 23'30	1.44022 AU		2023 Nov 10 23:35	0° \mathbb{J}	
	2022 Nov 18 04:59	0° \mathbb{J}			2023 Dec 01 23:30	0° \mathbb{Z}	
evening rise	2022 Nov 26 11:06	12° \mathbb{J} 56'13		evening max el	2023 Dec 08 10:55	7° \mathbb{Z} 31'04	22°07'51
	2022 Dec 07 17:55	0° \mathbb{Z}		retrograde	2023 Dec 17 21:12	13° \mathbb{Z} 07'42	
evening max el	2022 Dec 25 15:45	23° \mathbb{Z} 58'36	20°53'27	evening set	2023 Dec 22 08:35	11° \mathbb{Z} 19'57	
retrograde	2023 Jan 03 00:39	28° \mathbb{Z} 55'43		asc. node	2023 Dec 22 03:23	11° \mathbb{Z} 30'15	
asc. node	2023 Jan 04 06:21	28° \mathbb{Z} 47'15		inferior conj	2023 Dec 27 16:59	5° \mathbb{Z} 00'14	1°48'26
evening set	2023 Jan 07 00:56	27° \mathbb{Z} 24'03		minimum elong	2023 Dec 27 14:49	5° \mathbb{Z} 07'45	1°47'38
inferior conj	2023 Jan 12 09:40	21° \mathbb{Z} 12'43	2°29'44	min. Earth dist.	2023 Dec 27 16:36	5° \mathbb{Z} 01'34	0.67892 AU
minimum elong	2023 Jan 12 07:08	21° \mathbb{Z} 21'25	2°28'58		2023 Dec 31 15:21	30° \mathbb{R} \mathbb{J}	
min. Earth dist.	2023 Jan 12 20:54	20° \mathbb{Z} 34'10	0.67566 AU	morning rise	2024 Jan 01 20:56	28° \mathbb{J} 49'17	
morning rise	2023 Jan 17 13:11	14° \mathbb{Z} 59'45		direct	2024 Jan 06 15:34	26° \mathbb{J} 48'48	
direct	2023 Jan 22 22:50	12° \mathbb{Z} 37'01			2024 Jan 13 13:24	0° \mathbb{Z}	
morning max el	2023 Feb 02 19:25	19° \mathbb{Z} 05'19	23°56'57	morning max el	2024 Jan 16 06:04	2° \mathbb{Z} 28'47	22°28'28
desc. node	2023 Feb 10 21:43	28° \mathbb{Z} 31'41		desc. node	2024 Jan 28 18:45	18° \mathbb{Z} 00'40	
	2023 Feb 12 00:52	0° \mathbb{A}			2024 Feb 06 01:54	0° \mathbb{A}	
	2023 Mar 04 07:23	0° \mathbb{H}		morning set	2024 Feb 19 00:05	20° \mathbb{A} 10'55	
morning set	2023 Mar 10 10:06	10° \mathbb{H} 13'08		max. Earth dist.	2024 Feb 24 01:40	28° \mathbb{A} 36'40	1.40541 AU
max. Earth dist.	2023 Mar 14 05:11	16° \mathbb{H} 51'31	1.38376 AU		2024 Feb 24 21:16	0° \mathbb{H}	
superior conj	2023 Mar 21 11:12	0° \mathbb{Y} 11'59	-1°40'31	superior conj	2024 Mar 02 20:39	12° \mathbb{H} 13'59	-1°58'58
minimum elong	2023 Mar 21 15:43	0° \mathbb{Y} 33'27	1°40'00	minimum elong	2024 Mar 03 00:14	12° \mathbb{H} 30'08	1°58'45
	2023 Mar 21 08:40	0° \mathbb{Y}			2024 Mar 12 10:42	0° \mathbb{Y}	
evening rise	2023 Mar 30 10:41	17° \mathbb{Y} 39'37		evening rise	2024 Mar 12 22:32	0° \mathbb{Y} 55'47	
asc. node	2023 Apr 02 05:40	23° \mathbb{Y} 05'07		asc. node	2024 Mar 19 02:42	12° \mathbb{Y} 20'10	
	2023 Apr 05 22:42	0° \mathbb{B}		evening max el	2024 Mar 29 03:18	26° \mathbb{Y} 51'16	18°21'05
evening max el	2023 Apr 15 21:34	14° \mathbb{B} 15'43	18°54'31		2024 Apr 02 19:08	0° \mathbb{B}	
retrograde	2023 Apr 24 07:12	18° \mathbb{B} 21'24		retrograde	2024 Apr 05 10:08	0° \mathbb{B} 28'18	
evening set	2023 Apr 26 11:10	18° \mathbb{B} 06'09		evening set	2024 Apr 07 20:19	0° \mathbb{B} 05'16	
inferior conj	2023 May 04 11:55	13° \mathbb{B} 48'53	1°30'02		2024 Apr 08 02:47	30° \mathbb{R} \mathbb{Y}	
minimum elong	2023 May 04 15:07	13° \mathbb{B} 43'11	1°29'00	inferior conj	2024 Apr 15 02:05	25° \mathbb{Y} 27'56	2°42'40
min. Earth dist.	2023 May 07 16:05	11° \mathbb{B} 33'56	0.56958 AU	minimum elong	2024 Apr 15 05:48	25° \mathbb{Y} 20'09	2°41'47
desc. node	2023 May 09 20:51	10° \mathbb{B} 09'33		min. Earth dist.	2024 Apr 18 12:37	22° \mathbb{Y} 36'43	0.58944 AU
morning rise	2023 May 12 15:55	8° \mathbb{B} 44'36		morning rise	2024 Apr 22 12:28	19° \mathbb{Y} 53'45	
direct	2023 May 17 23:13	7° \mathbb{B} 37'17		desc. node	2024 Apr 25 17:54	18° \mathbb{Y} 34'50	
morning max el	2023 Jun 01 06:46	15° \mathbb{B} 03'10	25°58'27	direct	2024 Apr 28 17:18	18° \mathbb{Y} 11'08	
	2023 Jun 13 06:22	0° \mathbb{I}		morning max el	2024 May 13 02:31	25° \mathbb{Y} 56'34	27°09'30
morning set	2023 Jun 29 06:53	29° \mathbb{I} 14'18			2024 May 16 21:40	0° \mathbb{B}	
asc. node	2023 Jun 29 04:57	29° \mathbb{I} 04'08			2024 Jun 05 14:52	0° \mathbb{I}	
	2023 Jun 29 15:31	0° \mathbb{E}		morning set	2024 Jun 12 16:04	13° \mathbb{I} 59'13	
				asc. node	2024 Jun 15 01:59	19° \mathbb{I} 06'38	
superior conj	2023 Jul 06 06:09	14° \mathbb{E} 22'43	1°08'11	superior conj	2024 Jun 19 17:57	29° \mathbb{I} 18'10	0°47'26
minimum elong	2023 Jul 06 03:49	14° \mathbb{E} 09'55	1°07'49	minimum elong	2024 Jun 19 16:03	29° \mathbb{I} 07'42	0°47'04
max. Earth dist.	2023 Jul 06 23:09	15° \mathbb{E} 56'10	1.32355 AU	max. Earth dist.	2024 Jun 19 11:05	28° \mathbb{I} 40'21	1.32103 AU
evening rise	2023 Jul 13 06:03	29° \mathbb{E} 27'06			2024 Jun 20 01:32	0° \mathbb{E}	
	2023 Jul 13 12:23	0° \mathbb{Q}			2024 Jun 26 14:24	14° \mathbb{E} 12'26	
	2023 Jul 30 03:16	0° \mathbb{P}		evening rise	2024 Jun 26 14:24	14° \mathbb{E} 12'26	
desc. node	2023 Aug 05 20:10	9° \mathbb{P} 24'32			2024 Jul 04 13:12	0° \mathbb{Q}	
evening max el	2023 Aug 13 14:46	18° \mathbb{P} 07'32	27°09'15	desc. node	2024 Jul 22 17:11	26° \mathbb{Q} 55'15	
retrograde	2023 Aug 27 11:18	25° \mathbb{P} 20'55		evening max el	2024 Jul 25 14:50	29° \mathbb{Q} 53'36	26°19'01
evening set	2023 Sep 03 13:56	23° \mathbb{P} 03'45			2024 Jul 25 17:32	0° \mathbb{P}	
min. Earth dist.	2023 Sep 07 05:02	20° \mathbb{P} 19'53	0.61472 AU	retrograde	2024 Aug 08 14:18	7° \mathbb{P} 04'18	
inferior conj	2023 Sep 10 07:35	17° \mathbb{P} 35'28	-4°13'55	evening set	2024 Aug 15 03:20	5° \mathbb{P} 18'34	
minimum elong	2023 Sep 10 13:10	17° \mathbb{P} 23'06	4°12'39	min. Earth dist.	2024 Aug 19 03:50	2° \mathbb{P} 43'11	0.59407 AU
morning rise	2023 Sep 17 14:05	12° \mathbb{P} 40'22		inferior conj	2024 Aug 22 10:55	0° \mathbb{P} 11'14	-4°52'15
direct	2023 Sep 19 23:28	12° \mathbb{P} 16'37		minimum elong	2024 Aug 22 14:43	0° \mathbb{P} 03'53	4°51'49
asc. node	2023 Sep 25 04:10	14° \mathbb{P} 13'12			2024 Aug 22 16:44	30° \mathbb{R} \mathbb{Q}	
morning max el	2023 Sep 26 23:59	15° \mathbb{P} 47'33	17°56'56	morning rise	2024 Aug 30 04:16	25° \mathbb{Q} 38'56	

direct	2024 Sep 01 14:33	25°♎18'20		direct	2025 Aug 14 11:59	7°♎37'03	
morning max el	2024 Sep 09 09:39	29°♎04'15	18°22'24	morning max el	2025 Aug 23 11:06	11°♎49'26	19°08'48
	2024 Sep 10 07:44	0°♎		asc. node	2025 Aug 28 22:17	18°♎24'14	
asc. node	2024 Sep 11 01:13	0°♎48'08			2025 Sep 04 19:11	0°♎	
morning set	2024 Sep 25 09:32	24°♎32'37		morning set	2025 Sep 09 08:21	8°♎49'17	
	2024 Sep 28 05:59	0°♎					
superior conj	2024 Oct 04 12:52	11°♎48'54	1°27'17	superior conj	2025 Sep 17 14:24	25°♎07'24	1°40'40
minimum elong	2024 Oct 04 16:25	12°♎05'13	1°26'57	minimum elong	2025 Sep 17 16:14	25°♎16'16	1°40'34
max. Earth dist.	2024 Oct 12 01:18	25°♎11'22	1.40556 AU		2025 Sep 20 03:38	0°♎	
	2024 Oct 14 21:20	0°♎		max. Earth dist.	2025 Sep 24 05:12	7°♎31'25	1.38485 AU
evening rise	2024 Oct 16 13:42	2°♎47'49		evening rise	2025 Sep 28 00:32	14°♎16'43	
desc. node	2024 Oct 18 16:32	6°♎15'44		desc. node	2025 Oct 05 13:33	26°♎52'38	
	2024 Nov 03 07:20	0°♎			2025 Oct 07 12:44	0°♎	
evening max el	2024 Nov 20 01:46	21°♎06'24	23°27'27	evening max el	2025 Oct 29 04:08	0°♎	
retrograde	2024 Nov 30 15:01	27°♎21'00		retrograde	2025 Nov 02 14:22	4°♎45'30	24°46'02
evening set	2024 Dec 05 15:03	25°♎16'47		evening set	2025 Nov 14 04:51	11°♎30'47	
asc. node	2024 Dec 08 00:26	22°♎49'22		min. Earth dist.	2025 Nov 19 18:41	9°♎10'51	
min. Earth dist.	2024 Dec 10 13:23	19°♎30'55	0.67862 AU	asc. node	2025 Nov 24 08:49	3°♎58'44	0.67494 AU
inferior conj	2024 Dec 11 00:33	18°♎52'37	1°00'45	inferior conj	2025 Nov 24 21:29	3°♎16'46	
minimum elong	2024 Dec 10 23:11	18°♎57'18	1°00'11	minimum elong	2025 Nov 25 06:35	2°♎46'35	0°07'48
morning rise	2024 Dec 16 07:16	12°♎45'31		transit middle	2025 Nov 25 06:23	2°♎47'14	0°07'44
direct	2024 Dec 20 11:37	11°♎07'50		transit begin	2025 Nov 25 06:23	2°♎47'14	0°07'44
morning max el	2024 Dec 28 22:24	16°♎02'02	21°06'03	transit end	2025 Nov 25 03:58	2°♎55'16	
	2025 Jan 09 02:48	0°♎			2025 Nov 25 08:48	2°♎39'12	
desc. node	2025 Jan 14 15:48	7°♎57'12		morning rise	2025 Nov 27 10:34	30°♎	
morning set	2025 Jan 28 10:10	28°♎51'42		direct	2025 Nov 30 18:12	26°♎45'37	
	2025 Jan 29 03:33	0°♎		morning max el	2025 Dec 04 09:45	25°♎29'02	
max. Earth dist.	2025 Feb 05 04:07	11°♎15'29	1.42530 AU		2025 Dec 11 22:21	29°♎45'44	19°55'15
					2025 Dec 12 03:59	0°♎	
superior conj	2025 Feb 12 08:05	23°♎13'04	-2°06'24	desc. node	2026 Jan 01 12:51	28°♎13'05	
minimum elong	2025 Feb 12 08:05	23°♎13'07	2°06'24		2026 Jan 02 16:53	0°♎	
	2025 Feb 16 06:21	0°♎		morning set	2026 Jan 07 06:08	6°♎59'27	
evening rise	2025 Feb 23 20:27	13°♎29'38		max. Earth dist.	2026 Jan 18 14:06	24°♎44'48	1.44080 AU
	2025 Mar 05 06:55	0°♎			2026 Jan 21 20:44	0°♎	
asc. node	2025 Mar 05 23:44	1°♎07'22		superior conj	2026 Jan 23 17:36	3°♎01'43	-1°57'37
evening max el	2025 Mar 12 14:05	9°♎51'19	18°07'28	minimum elong	2026 Jan 23 11:54	2°♎38'33	1°57'19
retrograde	2025 Mar 19 05:36	13°♎15'22		evening rise	2026 Feb 05 23:56	25°♎12'10	
evening set	2025 Mar 21 21:44	12°♎42'29			2026 Feb 08 19:10	0°♎	
inferior conj	2025 Mar 28 11:54	7°♎44'39	3°23'39	asc. node	2026 Feb 20 20:47	19°♎17'53	
minimum elong	2025 Mar 28 14:11	7°♎39'08	3°23'21	evening max el	2026 Feb 24 02:46	23°♎07'22	18°13'05
min. Earth dist.	2025 Mar 31 16:08	4°♎41'44	0.61114 AU	retrograde	2026 Mar 02 13:17	26°♎32'42	
morning rise	2025 Apr 04 04:45	1°♎51'05		evening set	2026 Mar 05 11:00	25°♎48'43	
	2025 Apr 08 00:03	30°♎		inferior conj	2026 Mar 11 13:27	20°♎31'07	3°39'17
direct	2025 Apr 10 23:05	29°♎33'59		minimum elong	2026 Mar 11 13:52	20°♎30'00	3°39'17
desc. node	2025 Apr 12 14:57	29°♎41'49		min. Earth dist.	2026 Mar 14 04:23	17°♎40'16	0.63168 AU
	2025 Apr 14 00:25	0°♎		morning rise	2026 Mar 17 15:42	14°♎26'46	
morning max el	2025 Apr 25 04:33	7°♎29'37	27°46'24	direct	2026 Mar 24 13:53	11°♎45'35	
	2025 May 12 07:04	0°♎		desc. node	2026 Mar 30 12:00	13°♎25'58	
morning set	2025 May 27 21:16	28°♎29'59		morning max el	2026 Apr 07 11:31	19°♎42'45	27°45'54
	2025 May 28 14:42	0°♎			2026 Apr 16 06:19	0°♎	
asc. node	2025 Jun 01 23:02	9°♎14'24			2026 May 05 05:58	0°♎	
max. Earth dist.	2025 Jun 02 21:49	11°♎18'12	1.32247 AU	morning set	2026 May 11 20:17	12°♎39'22	
				max. Earth dist.	2026 May 17 03:32	23°♎37'23	1.32807 AU
superior conj	2025 Jun 04 04:49	14°♎07'31	0°23'26	superior conj	2026 May 19 12:59	28°♎44'59	-0°03'08
minimum elong	2025 Jun 04 03:46	14°♎01'46	0°23'12	minimum elong	2026 May 19 13:08	28°♎45'47	0°03'06
evening rise	2025 Jun 11 01:28	29°♎03'05		behind sun begin	2026 May 19 07:57	28°♎17'51	
	2025 Jun 11 12:12	0°♎		behind sun end	2026 May 19 18:19	29°♎13'43	
	2025 Jun 28 05:28	0°♎		asc. node	2026 May 19 20:06	29°♎23'23	
evening max el	2025 Jul 07 07:50	10°♎53'52	25°00'42		2026 May 20 02:53	0°♎	
desc. node	2025 Jul 09 14:12	12°♎55'14		evening rise	2026 May 26 13:20	13°♎52'47	
retrograde	2025 Jul 21 07:08	17°♎58'51			2026 Jun 03 16:13	0°♎	
evening set	2025 Jul 26 17:00	16°♎51'55		evening max el	2026 Jun 18 21:21	21°♎25'14	23°26'20
min. Earth dist.	2025 Jul 31 19:26	14°♎06'14	0.57417 AU	desc. node	2026 Jun 26 11:13	26°♎51'04	
inferior conj	2025 Aug 03 19:04	12°♎06'34	-5°04'25	retrograde	2026 Jul 02 11:24	28°♎12'59	
minimum elong	2025 Aug 03 18:18	12°♎07'52	5°04'23	evening set	2026 Jul 06 09:27	27°♎39'22	
morning rise	2025 Aug 11 22:09	7°♎56'18					


































































































































min. Earth dist.	3026 Jul 13 07:19	24°☿28'24	0.55827 AU	inferior conj	3027 Jun 25 04:20	3°☿49'17	-3°17'01
inferior conj	3026 Jul 15 07:19	23°☿17'15	-4°35'23	minimum elong	3027 Jun 24 20:17	4°☿00'33	3°14'38
minimum elong	3026 Jul 15 00:57	23°☿26'44	4°34'19	min. Earth dist.	3027 Jun 24 18:17	4°☿03'20	0.54960 AU
morning rise	3026 Jul 23 18:56	19°☿22'46		morning rise	3027 Jul 03 22:44	29°☿56'36	
direct	3026 Jul 26 14:33	19°☿03'16			3027 Jul 03 16:57	30°☿☿	
morning max el	3026 Aug 06 01:40	23°☿54'27	20°16'40	direct	3027 Jul 07 02:47	29°☿☿34'29	
	3026 Aug 11 08:42	0°☿			3027 Jul 10 10:22	0°☿	
asc. node	3026 Aug 15 19:20	6°☿47'58		morning max el	3027 Jul 19 04:34	5°☿14'08	21°44'16
morning set	3026 Aug 24 13:32	23°☿25'17		asc. node	3027 Aug 02 16:23	25°☿47'04	
	3026 Aug 27 18:25	0°☿			3027 Aug 04 21:22	0°☿	
				morning set	3027 Aug 08 22:44	8°☿13'13	
superior conj	3026 Sep 01 05:08	9°☿☿05'34	1°45'01	superior conj	3027 Aug 16 05:01	23°☿13'01	1°41'55
minimum elong	3026 Sep 01 05:15	9°☿☿06'09	1°45'00	minimum elong	3027 Aug 16 03:48	23°☿24'38	1°41'51
max. Earth dist.	3026 Sep 06 11:15	19°☿☿27'16	1.36525 AU		3027 Aug 19 08:18	0°☿	
evening rise	3026 Sep 10 08:59	26°☿☿46'37		max. Earth dist.	3027 Aug 20 00:24	1°☿☿21'44	1.34847 AU
	3026 Sep 12 03:41	0°☿☿		evening rise	3027 Aug 24 10:33	10°☿☿05'18	
desc. node	3026 Sep 22 10:34	17°☿☿17'49			3027 Sep 04 15:16	0°☿☿	
	3026 Sep 30 22:58	0°☿☿		desc. node	3027 Sep 09 07:35	7°☿☿25'01	
evening max el	3026 Oct 16 02:41	18°☿☿27'04	25°56'10		3027 Sep 26 13:45	0°☿☿	
retrograde	3026 Oct 28 13:50	25°☿☿32'23		evening max el	3027 Sep 28 15:09	2°☿☿03'59	26°50'22
evening set	3026 Nov 03 17:42	22°☿☿59'09		retrograde	3027 Oct 11 17:25	9°☿☿19'32	
min. Earth dist.	3026 Nov 08 00:26	18°☿☿22'26	0.66791 AU	evening set	3027 Oct 18 10:04	6°☿☿37'59	
inferior conj	3026 Nov 09 09:14	16°☿☿39'26	-0°49'10	min. Earth dist.	3027 Oct 22 09:51	2°☿☿37'36	0.65737 AU
minimum elong	3026 Nov 09 10:32	16°☿☿35'21	0°48'36	inferior conj	3027 Oct 24 06:31	0°☿☿27'22	-1°48'37
asc. node	3026 Nov 11 18:33	13°☿☿46'53		minimum elong	3027 Oct 24 09:29	0°☿☿18'41	1°47'24
morning rise	3026 Nov 15 03:44	10°☿☿47'18			3027 Oct 24 15:55	30°☿☿☿	
direct	3026 Nov 18 08:24	9°☿☿48'43		asc. node	3027 Oct 29 15:36	25°☿☿13'18	
morning max el	3026 Nov 25 05:47	13°☿☿38'34	18°59'09	morning rise	3027 Oct 30 09:38	24°☿☿47'08	
	3026 Dec 07 08:58	0°☿☿		direct	3027 Nov 02 05:35	24°☿☿02'54	
morning set	3026 Dec 17 13:22	15°☿☿48'47		morning max el	3027 Nov 08 18:54	27°☿☿36'17	18°19'17
desc. node	3026 Dec 19 09:52	18°☿☿42'48			3027 Nov 10 22:40	0°☿☿	
	3026 Dec 26 14:58	0°☿☿		morning set	3027 Nov 28 00:09	26°☿☿03'00	
max. Earth dist.	3027 Jan 01 06:25	8°☿☿51'26	1.44999 AU		3027 Nov 30 10:45	0°☿☿	
superior conj	3027 Jan 03 03:52	11°☿☿50'24	-1°29'32	desc. node	3027 Dec 06 06:53	9°☿☿22'09	
minimum elong	3027 Jan 02 18:47	11°☿☿14'37	1°28'36	superior conj	3027 Dec 13 05:43	20°☿☿22'35	-0°45'54
	3027 Jan 14 13:00	0°☿☿☿		minimum elong	3027 Dec 12 23:52	19°☿☿59'36	0°45'08
evening rise	3027 Jan 18 05:12	5°☿☿57'53		max. Earth dist.	3027 Dec 15 01:44	23°☿☿15'36	1.45185 AU
	3027 Feb 02 08:44	0°☿☿☿			3027 Dec 19 08:55	0°☿☿☿	
evening max el	3027 Feb 07 14:35	6°☿☿32'22	18°37'06	evening rise	3027 Dec 29 11:27	15°☿☿49'07	
asc. node	3027 Feb 07 17:49	6°☿☿40'32			3028 Jan 07 13:16	0°☿☿☿	
retrograde	3027 Feb 14 04:59	10°☿☿11'28		greatest brilliancy	3028 Jan 09 12:24	3°☿☿☿01'44	-0.8m
evening set	3027 Feb 17 08:34	9°☿☿15'28		evening max el	3028 Jan 21 23:13	20°☿☿☿01'38	19°18'21
inferior conj	3027 Feb 23 02:45	3°☿☿39'37	3°35'58	asc. node	3028 Jan 25 14:52	23°☿☿☿02'06	
minimum elong	3027 Feb 23 01:37	3°☿☿43'02	3°35'53	retrograde	3028 Jan 29 01:16	24°☿☿☿05'12	
min. Earth dist.	3027 Feb 25 02:02	1°☿☿17'50	0.64913 AU	evening set	3028 Feb 01 11:37	22°☿☿☿56'21	
	3027 Feb 26 05:17	30°☿☿☿☿		inferior conj	3028 Feb 07 00:22	17°☿☿☿04'25	3°18'29
morning rise	3027 Feb 28 18:10	27°☿☿☿29'32		minimum elong	3028 Feb 06 22:15	17°☿☿☿11'15	3°18'07
direct	3027 Mar 07 11:50	24°☿☿☿38'34		min. Earth dist.	3028 Feb 08 08:30	15°☿☿☿20'48	0.66260 AU
desc. node	3027 Mar 17 09:03	29°☿☿☿14'09		morning rise	3028 Feb 12 08:39	10°☿☿☿51'31	
	3027 Mar 18 06:30	0°☿☿☿		direct	3028 Feb 18 16:05	8°☿☿☿04'05	
morning max el	3027 Mar 20 21:03	2°☿☿☿27'42	27°10'48	morning max el	3028 Mar 02 06:49	15°☿☿☿33'08	26°08'12
	3027 Apr 10 12:20	0°☿☿☿		desc. node	3028 Mar 03 06:04	16°☿☿☿33'01	
morning set	3027 Apr 25 10:06	26°☿☿☿17'30			3028 Mar 14 04:32	0°☿☿☿	
	3027 Apr 27 07:29	0°☿☿☿			3028 Apr 02 08:19	0°☿☿☿	
max. Earth dist.	3027 Apr 30 00:27	5°☿☿☿27'00	1.33817 AU	morning set	3028 Apr 07 10:58	9°☿☿☿13'40	
superior conj	3027 May 03 16:22	13°☿☿☿03'09	-0°31'17	max. Earth dist.	3028 Apr 11 10:04	16°☿☿☿45'36	1.35284 AU
minimum elong	3027 May 03 17:58	13°☿☿☿11'36	0°30'58	superior conj	3028 Apr 16 12:36	26°☿☿☿55'27	-0°59'48
asc. node	3027 May 06 17:07	19°☿☿☿28'32		minimum elong	3028 Apr 16 15:43	27°☿☿☿11'16	0°59'14
evening rise	3027 May 11 00:07	28°☿☿☿34'13			3028 Apr 18 00:42	0°☿☿☿	
	3027 May 11 16:33	0°☿☿☿		asc. node	3028 Apr 22 14:09	9°☿☿☿26'16	
	3027 May 29 17:42	0°☿☿☿		evening rise	3028 Apr 24 07:50	13°☿☿☿01'25	
evening max el	3027 May 31 14:24	1°☿☿☿56'16	21°51'14		3028 May 03 04:38	0°☿☿☿	
retrograde	3027 Jun 13 03:58	8°☿☿☿08'07		evening max el	3028 May 12 17:32	12°☿☿☿55'44	20°27'56
desc. node	3027 Jun 13 08:15	8°☿☿☿08'03		retrograde	3028 May 23 17:12	18°☿☿☿16'44	
evening set	3027 Jun 15 19:12	7°☿☿☿52'34					

evening set	3028 May 25 17:54	18° Π 06'32		evening max el	3029 Apr 25 08:46	24° \mathcal{B} 35'56	19°22'55
desc. node	3028 May 30 05:16	16° Π 40'25		retrograde	3029 May 04 15:18	29° \mathcal{B} 05'41	
inferior conj	3028 Jun 03 22:30	14° Π 08'35	-1°23'06	evening set	3029 May 06 15:59	28° \mathcal{B} 53'42	
minimum elong	3028 Jun 03 18:34	14° Π 14'17	1°21'40	inferior conj	3029 May 15 04:14	24° \mathcal{B} 46'40	0°33'18
min. Earth dist.	3028 Jun 05 06:36	13° Π 21'59	0.55026 AU	minimum elong	3029 May 15 05:37	24° \mathcal{B} 44'24	0°32'48
morning rise	3028 Jun 12 18:16	9° Π 57'14		desc. node	3029 May 17 02:16	23° \mathcal{B} 31'15	
direct	3028 Jun 16 12:48	9° Π 26'33		min. Earth dist.	3029 May 17 21:14	23° \mathcal{B} 00'49	0.56027 AU
morning max el	3028 Jun 29 22:26	15° Π 56'25	23°24'51	morning rise	3029 May 23 16:19	20° \mathcal{B} 02'06	
	3028 Jul 11 01:25	0° \mathcal{E}		direct	3029 May 28 09:20	19° \mathcal{B} 11'30	
asc. node	3028 Jul 19 13:24	15° \mathcal{E} 12'32		morning max el	3029 Jun 11 12:43	26° \mathcal{B} 22'01	25°06'04
morning set	3028 Jul 23 10:03	23° \mathcal{E} 07'22			3029 Jun 14 23:56	0° Π	
	3028 Jul 26 15:22	0° \mathcal{O}			3029 Jul 03 23:55	0° \mathcal{E}	
				asc. node	3029 Jul 06 10:27	4° \mathcal{E} 57'21	
superior conj	3028 Jul 30 11:04	8° \mathcal{O} 14'30	1°32'43	morning set	3029 Jul 07 21:50	8° \mathcal{E} 02'38	
minimum elong	3028 Jul 30 09:01	8° \mathcal{O} 03'29	1°32'31				
max. Earth dist.	3028 Aug 01 22:25	13° \mathcal{O} 30'51	1.33553 AU	superior conj	3029 Jul 14 20:54	23° \mathcal{E} 08'24	1°18'26
evening rise	3028 Aug 07 00:57	24° \mathcal{O} 01'07		minimum elong	3029 Jul 14 18:32	22° \mathcal{E} 55'27	1°18'06
	3028 Aug 10 02:27	0° \mathcal{M}		max. Earth dist.	3029 Jul 16 04:17	25° \mathcal{E} 59'33	1.32670 AU
desc. node	3028 Aug 26 04:35	27° \mathcal{M} 06'08			3029 Jul 18 00:47	0° \mathcal{O}	
	3028 Aug 28 05:09	0° \mathcal{L}		evening rise	3029 Jul 22 00:33	8° \mathcal{O} 23'51	
evening max el	3028 Sep 10 02:53	15° \mathcal{L} 25'37	27°21'24		3029 Aug 02 12:12	0° \mathcal{M}	
retrograde	3028 Sep 23 15:17	22° \mathcal{L} 43'56		desc. node	3029 Aug 13 01:35	16° \mathcal{M} 10'18	
evening set	3028 Sep 30 17:09	20° \mathcal{L} 02'25		evening max el	3029 Aug 23 12:14	28° \mathcal{M} 20'23	27°23'11
min. Earth dist.	3028 Oct 04 10:52	16° \mathcal{L} 37'02	0.64327 AU		3029 Aug 25 08:25	0° \mathcal{L}	
inferior conj	3028 Oct 06 20:02	14° \mathcal{L} 05'11	-2°48'23	retrograde	3029 Sep 06 06:55	5° \mathcal{L} 36'35	
minimum elong	3028 Oct 07 00:36	13° \mathcal{L} 53'01	2°46'45	evening set	3029 Sep 13 11:39	3° \mathcal{L} 06'49	
morning rise	3028 Oct 13 09:13	8° \mathcal{L} 39'59		min. Earth dist.	3029 Sep 17 02:03	0° \mathcal{L} 10'40	0.62586 AU
direct	3028 Oct 15 22:49	8° \mathcal{L} 06'24			3029 Sep 17 06:41	30° \mathcal{R} \mathcal{M}	
asc. node	3028 Oct 15 12:38	8° \mathcal{L} 07'20		inferior conj	3029 Sep 19 23:01	27° \mathcal{M} 26'50	-3°44'57
morning max el	3028 Oct 22 11:01	11° \mathcal{L} 32'29	17°56'22	minimum elong	3029 Sep 20 04:37	27° \mathcal{M} 13'30	3°43'23
	3028 Nov 04 02:43	0° \mathcal{M}		morning rise	3029 Sep 26 23:08	22° \mathcal{M} 19'47	
morning set	3028 Nov 08 15:18	7° \mathcal{M} 40'07		direct	3029 Sep 29 09:06	21° \mathcal{M} 53'23	
				asc. node	3029 Oct 02 09:40	22° \mathcal{M} 35'57	
superior conj	3028 Nov 21 20:22	29° \mathcal{M} 36'46	0°02'10	morning max el	3029 Oct 06 03:08	25° \mathcal{M} 20'29	17°51'18
minimum elong	3028 Nov 21 20:37	29° \mathcal{M} 37'48	0°02'07		3029 Oct 10 00:15	0° \mathcal{L}	
behind sun begin	3028 Nov 21 10:28	28° \mathcal{M} 56'43		morning set	3029 Oct 22 05:12	20° \mathcal{L} 23'08	
behind sun end	3028 Nov 22 06:47	0° \mathcal{X} 18'49			3029 Oct 27 15:32	0° \mathcal{M}	
desc. node	3028 Nov 22 03:54	0° \mathcal{X} 07'11					
	3028 Nov 22 02:07	0° \mathcal{X}		superior conj	3029 Nov 02 12:35	10° \mathcal{M} 07'20	0°43'57
max. Earth dist.	3028 Nov 26 20:18	7° \mathcal{X} 36'31	1.44636 AU	minimum elong	3029 Nov 02 16:25	10° \mathcal{M} 23'33	0°43'26
evening rise	3028 Dec 08 00:20	25° \mathcal{X} 01'45		desc. node	3029 Nov 09 00:55	20° \mathcal{M} 54'56	
	3028 Dec 11 06:05	0° \mathcal{Z}		max. Earth dist.	3029 Nov 09 11:38	21° \mathcal{M} 38'21	1.43429 AU
greatest brilliancy	3028 Dec 22 07:42	16° \mathcal{Z} 39'45	-0.6m		3029 Nov 14 17:21	0° \mathcal{X}	
	3029 Jan 01 00:12	0° \approx		evening rise	3029 Nov 17 10:08	4° \mathcal{X} 13'13	
evening max el	3029 Jan 04 02:58	3° \approx 31'55	20°15'03		3029 Dec 04 16:35	0° \mathcal{Z}	
asc. node	3029 Jan 11 11:54	8° \approx 07'04		evening max el	3029 Dec 18 01:16	17° \mathcal{Z} 03'55	21°24'08
retrograde	3029 Jan 11 23:14	8° \approx 08'18		retrograde	3029 Dec 26 20:49	22° \mathcal{Z} 18'00	
evening set	3029 Jan 15 17:52	6° \approx 45'25		asc. node	3029 Dec 29 08:55	21° \mathcal{Z} 43'35	
inferior conj	3029 Jan 21 03:31	0° \approx 40'13	2°50'07	evening set	3029 Dec 31 01:29	20° \mathcal{Z} 39'51	
minimum elong	3029 Jan 21 00:59	0° \approx 48'47	2°49'27	inferior conj	3030 Jan 05 09:54	14° \mathcal{Z} 24'31	2°13'04
	3029 Jan 21 15:23	30° \mathcal{R} \mathcal{Z}		minimum elong	3030 Jan 05 07:28	14° \mathcal{Z} 32'57	2°12'16
min. Earth dist.	3029 Jan 21 21:57	29° \mathcal{Z} 37'50	0.67198 AU	min. Earth dist.	3030 Jan 05 16:08	14° \mathcal{Z} 02'58	0.67748 AU
morning rise	3029 Jan 26 07:54	24° \mathcal{Z} 26'33		morning rise	3030 Jan 10 13:16	8° \mathcal{Z} 11'58	
direct	3029 Feb 01 01:53	21° \mathcal{Z} 52'47		direct	3030 Jan 15 16:32	5° \mathcal{Z} 58'12	
morning max el	3029 Feb 12 15:30	28° \mathcal{Z} 47'26	24°47'28	morning max el	3030 Jan 26 00:22	12° \mathcal{Z} 06'43	23°18'55
	3029 Feb 13 19:30	0° \approx		desc. node	3030 Feb 05 00:09	24° \mathcal{Z} 04'49	
desc. node	3029 Feb 18 03:06	4° \approx 55'53			3030 Feb 09 07:37	0° \approx	
	3029 Mar 07 23:25	0° \mathcal{H}			3030 Feb 28 19:48	0° \mathcal{H}	
morning set	3029 Mar 20 17:42	21° \mathcal{H} 12'43		morning set	3030 Mar 02 00:04	1° \mathcal{H} 58'11	
max. Earth dist.	3029 Mar 24 09:05	27° \mathcal{H} 46'43	1.37158 AU	max. Earth dist.	3030 Mar 06 03:39	9° \mathcal{H} 04'10	1.39295 AU
	3029 Mar 25 13:56	0° \mathcal{Y}					
superior conj	3029 Mar 30 22:35	10° \mathcal{Y} 13'02	-1°26'46	superior conj	3030 Mar 13 18:23	22° \mathcal{H} 46'10	-1°49'23
minimum elong	3029 Mar 31 02:51	10° \mathcal{Y} 33'52	1°26'09	minimum elong	3030 Mar 13 22:46	23° \mathcal{H} 06'33	1°48'59
evening rise	3029 Apr 08 10:07	27° \mathcal{Y} 06'48			3030 Mar 17 14:33	0° \mathcal{Y}	
asc. node	3029 Apr 09 11:11	29° \mathcal{Y} 11'38		evening rise	3030 Mar 23 04:12	10° \mathcal{Y} 43'08	
	3029 Apr 09 20:56	0° \mathcal{B}		asc. node	3030 Mar 27 08:13	18° \mathcal{Y} 39'31	
					3030 Apr 02 22:38	0° \mathcal{B}	

































































































































evening max el	3030 Apr 08 10:14	6°♄54'11	18°37'58	asc. node	3031 Mar 14 05:16	7°♄43'50	
retrograde	3030 Apr 16 06:57	10°♄45'18		evening max el	3031 Mar 22 18:35	19°♄41'43	18°12'58
evening set	3030 Apr 18 13:34	10°♄27'05		retrograde	3031 Mar 29 17:20	23°♄11'05	
inferior conj	3030 Apr 26 05:59	6°♄01'54	2°04'56	evening set	3031 Apr 01 06:17	22°♄43'53	
minimum elong	3030 Apr 26 09:45	5°♄54'42	2°03'51	inferior conj	3031 Apr 08 04:54	17°♄57'41	3°03'34
min. Earth dist.	3030 Apr 29 14:59	3°♄28'36	0.57755 AU	minimum elong	3031 Apr 08 08:08	17°♄50'27	3°02'57
desc. node	3030 May 03 23:20	0°♄47'57		min. Earth dist.	3031 Apr 11 13:57	14°♄58'37	0.59863 AU
morning rise	3030 May 04 02:47	0°♄43'51		morning rise	3031 Apr 15 07:39	12°♄14'25	
	3030 May 05 22:47	30°♄♂		desc. node	3031 Apr 20 20:22	10°♄19'04	
direct	3030 May 09 20:13	29°♄21'44		direct	3031 Apr 21 19:31	10°♄16'30	
	3030 May 13 18:57	0°♄		morning max el	3031 May 06 03:17	18°♄06'26	27°29'50
morning max el	3030 May 24 05:04	6°♄57'39	26°32'18		3031 May 16 01:57	0°♄	
	3030 Jun 10 08:04	0°♄			3031 Jun 02 22:45	0°♄	
morning set	3030 Jun 22 08:26	22°♄53'01		morning set	3031 Jun 06 16:11	7°♄32'53	
asc. node	3030 Jun 23 07:29	24°♄55'02		asc. node	3031 Jun 10 04:33	15°♄00'38	
	3030 Jun 25 16:04	0°♄		max. Earth dist.	3031 Jun 13 03:05	21°♄25'26	1.32117 AU
superior conj	3030 Jun 29 08:29	8°♄05'15	0°59'51	superior conj	3031 Jun 13 20:06	22°♄59'03	0°37'38
minimum elong	3030 Jun 29 06:17	7°♄53'07	0°59'27	minimum elong	3031 Jun 13 18:31	22°♄50'18	0°37'18
max. Earth dist.	3030 Jun 29 15:03	8°♄41'26	1.32197 AU		3031 Jun 17 00:40	0°♄	
evening rise	3030 Jul 06 06:25	23°♄03'37		evening rise	3031 Jun 20 16:12	7°♄52'36	
	3030 Jul 09 15:45	0°♄			3031 Jul 02 04:05	0°♄	
	3030 Jul 27 12:57	0°♄		desc. node	3031 Jul 17 19:38	21°♄17'37	
desc. node	3030 Jul 30 22:37	4°♄21'25		evening max el	3031 Jul 18 13:44	22°♄01'41	25°48'38
evening max el	3030 Aug 05 16:34	10°♄34'58	26°51'55	retrograde	3031 Aug 01 13:24	29°♄09'42	
retrograde	3030 Aug 19 14:50	17°♄47'05		evening set	3031 Aug 07 16:37	27°♄40'20	
evening set	3030 Aug 26 13:04	15°♄42'14		min. Earth dist.	3031 Aug 12 01:59	25°♄02'52	0.58545 AU
min. Earth dist.	3030 Aug 30 06:45	13°♄03'49	0.60602 AU	inferior conj	3031 Aug 15 07:37	22°♄42'32	-5°01'29
inferior conj	3030 Sep 02 12:04	10°♄22'33	-4°32'32	minimum elong	3031 Aug 15 09:48	22°♄38'33	5°01'20
minimum elong	3030 Sep 02 17:14	10°♄11'45	4°31'35	morning rise	3031 Aug 23 05:13	18°♄19'40	
morning rise	3030 Sep 09 23:16	5°♄36'38		direct	3031 Aug 25 16:56	17°♄59'40	
direct	3030 Sep 12 08:35	5°♄14'30		morning max el	3031 Sep 02 22:30	21°♄55'08	18°39'24
asc. node	3030 Sep 19 06:42	8°♄28'51		asc. node	3031 Sep 06 03:46	25°♄31'31	
morning max el	3030 Sep 19 16:02	8°♄50'55	18°05'11		3031 Sep 09 07:13	0°♄	
	3030 Oct 03 09:28	0°♄		morning set	3031 Sep 19 05:23	17°♄55'23	
morning set	3030 Oct 05 11:32	3°♄52'47			3031 Sep 25 10:54	0°♄	
superior conj	3030 Oct 15 06:55	21°♄53'58	1°14'47	superior conj	3031 Sep 27 22:40	4°♄43'34	1°34'11
minimum elong	3030 Oct 15 11:08	22°♄12'45	1°14'18	minimum elong	3031 Sep 28 01:32	4°♄57'02	1°33'57
	3030 Oct 19 21:58	0°♄		max. Earth dist.	3031 Oct 05 04:08	17°♄52'13	1.39688 AU
max. Earth dist.	3030 Oct 22 22:11	5°♄06'22	1.41708 AU	evening rise	3031 Oct 09 06:08	24°♄53'52	
desc. node	3030 Oct 26 21:57	11°♄41'28			3031 Oct 12 07:48	0°♄	
evening rise	3030 Oct 28 08:59	14°♄02'57		desc. node	3031 Oct 13 18:59	2°♄23'03	
	3030 Nov 07 16:00	0°♄			3031 Nov 01 10:22	0°♄	
	3030 Nov 30 03:39	0°♄		evening max el	3031 Nov 13 08:17	14°♄15'29	24°01'23
evening max el	3030 Nov 30 18:34	0°♄38'12	22°41'27	retrograde	3031 Nov 24 08:22	20°♄43'31	
retrograde	3030 Dec 10 16:14	6°♄31'02		evening set	3031 Nov 29 14:17	18°♄32'20	
evening set	3030 Dec 15 08:50	4°♄36'28		asc. node	3031 Dec 03 03:00	14°♄40'15	
asc. node	3030 Dec 16 05:57	3°♄48'47		min. Earth dist.	3031 Dec 04 08:59	13°♄00'53	0.67755 AU
	3030 Dec 19 10:51	30°♄♂		inferior conj	3031 Dec 05 00:41	12°♄07'46	0°38'51
inferior conj	3030 Dec 20 17:34	28°♄14'37	1°28'55	minimum elong	3031 Dec 04 23:46	12°♄10'52	0°38'28
minimum elong	3030 Dec 20 15:41	28°♄21'07	1°28'11	morning rise	3031 Dec 10 09:16	6°♄03'14	
min. Earth dist.	3030 Dec 20 12:37	28°♄31'46	0.67928 AU	direct	3031 Dec 14 08:01	4°♄34'49	
morning rise	3030 Dec 25 22:25	22°♄05'01		morning max el	3031 Dec 22 08:22	9°♄11'14	20°34'15
direct	3030 Dec 30 10:56	20°♄14'05			3032 Jan 07 03:32	0°♄	
morning max el	3031 Jan 08 12:54	25°♄33'27	21°52'11	desc. node	3032 Jan 09 18:16	3°♄52'24	
	3031 Jan 12 12:55	0°♄		morning set	3032 Jan 20 02:54	19°♄39'05	
desc. node	3031 Jan 22 21:13	13°♄46'52			3032 Jan 26 16:50	0°♄	
	3031 Feb 02 19:51	0°♄		max. Earth dist.	3032 Jan 29 08:37	4°♄15'52	1.43260 AU
morning set	3031 Feb 10 01:32	11°♄20'34		superior conj	3032 Feb 04 19:46	14°♄52'32	-2°04'56
max. Earth dist.	3031 Feb 16 02:14	21°♄11'35	1.41428 AU	minimum elong	3032 Feb 04 17:27	14°♄42'52	2°04'53
	3031 Feb 21 06:45	0°♄			3032 Feb 13 16:10	0°♄	
superior conj	3031 Feb 23 19:09	4°♄23'20	-2°03'46	evening rise	3032 Feb 17 01:14	5°♄55'33	
minimum elong	3031 Feb 23 21:34	4°♄34'01	2°03'42	asc. node	3032 Feb 29 02:19	26°♄16'31	
evening rise	3031 Mar 06 10:37	23°♄42'24			3032 Mar 02 18:59	0°♄	
	3031 Mar 09 20:41	0°♄		evening max el	3032 Mar 05 06:29	2°♄49'02	18°07'30

retrograde	3032 Mar 11 18:41	6°♿12'11		max. Earth dist.	3033 Jan 10 21:42	18°♿03'52	1.44554 AU
evening set	3032 Mar 14 13:13	5°♿34'38					
inferior conj	3032 Mar 20 21:54	0°♿27'53	3°32'58	superior conj	3033 Jan 14 18:26	24°♿12'42	-1°48'03
minimum elong	3032 Mar 20 23:22	0°♿24'06	3°32'51	minimum elong	3033 Jan 14 10:38	23°♿41'31	1°47'27
	3032 Mar 21 08:46	30°♿8'8			3033 Jan 18 08:43	0°♿	
min. Earth dist.	3032 Mar 23 20:51	27°♿27'47	0.62012 AU	evening rise	3033 Jan 28 19:44	17°♿15'00	
morning rise	3032 Mar 27 08:05	24°♿28'50			3033 Feb 05 10:55	0°♿	
direct	3032 Apr 03 05:01	22°♿00'16		asc. node	3033 Feb 14 23:21	14°♿08'14	
desc. node	3032 Apr 06 17:26	22°♿35'35		evening max el	3033 Feb 16 19:03	16°♿09'19	18°21'00
	3032 Apr 17 08:55	0°♿		retrograde	3033 Feb 23 06:22	19°♿39'28	
morning max el	3032 Apr 17 07:48	29°♿57'12	27°50'53	evening set	3033 Feb 26 06:24	18°♿50'37	
	3032 May 09 02:06	0°♿		inferior conj	3033 Mar 04 04:56	13°♿24'55	3°39'52
morning set	3032 May 20 19:02	21°♿55'05		minimum elong	3033 Mar 04 04:37	13°♿25'48	3°39'51
	3032 May 24 16:04	0°♿		min. Earth dist.	3033 Mar 06 13:16	10°♿44'41	0.63954 AU
max. Earth dist.	3032 May 26 12:19	3°♿57'15	1.32434 AU	morning rise	3033 Mar 10 02:04	7°♿17'18	
asc. node	3032 May 27 01:36	5°♿09'05		direct	3033 Mar 16 23:02	4°♿30'10	
				desc. node	3033 Mar 24 14:29	7°♿16'43	
superior conj	3032 May 28 06:00	7°♿43'23	0°12'27	morning max el	3033 Mar 30 16:25	12°♿26'00	27°34'49
minimum elong	3032 May 28 05:25	7°♿40'13	0°12'19		3033 Apr 13 17:11	0°♿	
behind sun begin	3032 May 28 02:08	7°♿22'21			3033 May 01 13:55	0°♿	
behind sun end	3032 May 28 08:41	7°♿58'04		morning set	3033 May 04 14:30	5°♿52'05	
evening rise	3032 Jun 04 03:48	22°♿43'10		max. Earth dist.	3033 May 09 14:39	16°♿04'07	1.33178 AU
	3032 Jun 07 15:58	0°♿					
	3032 Jun 26 12:38	0°♿		superior conj	3033 May 12 12:21	22°♿12'46	-0°14'58
evening max el	3032 Jun 29 04:20	2°♿45'31	24°21'35	minimum elong	3033 May 12 13:05	22°♿16'45	0°14'48
desc. node	3032 Jul 03 16:38	6°♿29'00		behind sun begin	3033 May 12 11:04	22°♿05'59	
retrograde	3032 Jul 13 00:56	9°♿45'22		behind sun end	3033 May 12 15:06	22°♿27'32	
evening set	3032 Jul 17 20:17	8°♿53'45		asc. node	3033 May 13 22:38	25°♿16'32	
min. Earth dist.	3032 Jul 23 15:09	5°♿59'08	0.56674 AU		3033 May 16 03:18	0°♿	
inferior conj	3032 Jul 26 07:03	4°♿18'19	-4°57'56	evening rise	3033 May 19 15:24	7°♿29'21	
minimum elong	3032 Jul 26 03:47	4°♿23'31	4°57'40		3033 May 31 13:10	0°♿	
morning rise	3032 Aug 03 13:57	0°♿16'22		evening max el	3033 Jun 10 18:07	13°♿11'20	22°45'03
	3032 Aug 05 05:46	30°♿8'8		desc. node	3033 Jun 20 13:40	19°♿20'02	
direct	3032 Aug 06 06:07	29°♿57'10		retrograde	3033 Jun 24 00:11	19°♿47'06	
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morning max el	3032 Aug 15 19:33	4°♿24'00	19°35'08	min. Earth dist.	3033 Jul 05 02:24	15°♿57'26	0.55343 AU
asc. node	3032 Aug 23 00:49	13°♿29'15		inferior conj	3033 Jul 06 11:38	15°♿09'47	-4°08'01
	3032 Sep 01 02:57	0°♿		minimum elong	3033 Jul 06 03:48	15°♿21'03	4°06'14
morning set	3032 Sep 02 07:13	2°♿21'21		morning rise	3033 Jul 15 02:30	11°♿18'22	
				direct	3033 Jul 18 00:54	10°♿58'24	
superior conj	3032 Sep 10 06:24	18°♿21'00	1°43'30	morning max el	3033 Jul 29 05:08	16°♿09'40	20°51'57
minimum elong	3032 Sep 10 07:28	18°♿26'19	1°43'29		3033 Aug 08 16:02	0°♿	
	3032 Sep 16 08:22	0°♿		asc. node	3033 Aug 09 21:52	2°♿08'51	
max. Earth dist.	3032 Sep 16 08:24	0°♿00'10	1.37625 AU	morning set	3033 Aug 17 14:19	17°♿02'43	
evening rise	3032 Sep 20 02:35	6°♿49'49			3033 Aug 23 19:55	0°♿	
desc. node	3032 Sep 29 15:58	22°♿55'48					
	3032 Oct 04 05:09	0°♿		superior conj	3033 Aug 25 01:25	2°♿32'01	1°44'30
evening max el	3032 Oct 25 20:26	27°♿55'52	25°17'14	minimum elong	3033 Aug 25 00:55	2°♿29'25	1°44'31
	3032 Oct 28 02:02	0°♿		max. Earth dist.	3033 Aug 29 16:32	11°♿50'35	1.35758 AU
retrograde	3032 Nov 06 20:15	4°♿51'16		evening rise	3033 Sep 02 18:50	19°♿41'47	
evening set	3032 Nov 12 16:13	2°♿24'55			3033 Sep 08 12:02	0°♿	
	3032 Nov 15 01:37	30°♿8'8		desc. node	3033 Sep 16 12:58	13°♿14'08	
min. Earth dist.	3032 Nov 17 03:01	27°♿27'56	0.67239 AU		3033 Sep 28 05:57	0°♿	
inferior conj	3032 Nov 18 05:30	26°♿01'56	-0°15'56	evening max el	3033 Oct 08 08:37	11°♿36'02	26°21'37
minimum elong	3032 Nov 18 05:55	26°♿00'38	0°15'46	retrograde	3033 Oct 21 03:13	18°♿47'46	
transit middle	3032 Nov 18 05:55	26°♿00'38	0°15'46	evening set	3033 Oct 27 12:42	16°♿10'07	
transit begin	3032 Nov 18 05:16	26°♿02'42		min. Earth dist.	3033 Oct 31 16:19	11°♿48'46	0.66382 AU
transit end	3032 Nov 18 06:33	25°♿58'33		inferior conj	3033 Nov 02 06:08	9°♿53'23	-1°14'10
asc. node	3032 Nov 19 00:03	25°♿02'07		minimum elong	3033 Nov 02 08:08	9°♿47'17	1°13'20
morning rise	3032 Nov 23 19:51	20°♿04'38		asc. node	3033 Nov 05 21:05	5°♿50'36	
direct	3032 Nov 27 06:27	18°♿56'20		morning rise	3033 Nov 08 04:07	4°♿05'56	
morning max el	3032 Dec 04 11:47	23°♿00'15	19°29'30	direct	3033 Nov 11 04:41	3°♿14'05	
	3032 Dec 10 07:40	0°♿		morning max el	3033 Nov 17 21:57	6°♿56'07	18°40'07
greatest brilliancy	3032 Dec 17 18:06	10°♿41'50	-0.7m		3033 Dec 04 03:38	0°♿	
desc. node	3032 Dec 26 15:17	24°♿15'00		morning set	3033 Dec 08 18:39	7°♿19'41	
morning set	3032 Dec 29 00:44	27°♿56'52		desc. node	3033 Dec 13 12:16	14°♿49'07	
	3032 Dec 30 08:32	0°♿			3033 Dec 23 03:55	0°♿	

































































































































superior conj	3033 Dec 24 22:38	2°♄47'37	-1°12'22	desc. node	3034 Nov 30 09:16	5°♄31'11	
minimum elong	3033 Dec 24 14:09	2°♄14'22	1°11'23				
max. Earth dist.	3033 Dec 24 15:03	2°♄17'53	1.45170 AU	superior conj	3034 Dec 04 03:34	11°♄31'19	-0°25'21
evening rise	3034 Jan 09 14:57	27°♄36'07		minimum elong	3034 Dec 04 00:22	11°♄18'36	0°24'54
	3034 Jan 11 02:55	0°♄		max. Earth dist.	3034 Dec 07 10:18	16°♄42'27	1.45048 AU
greatest brilliancy	3034 Jan 17 13:10	10°♄16'30	-0.8m		3034 Dec 15 22:22	0°♄	
evening max el	3034 Jan 31 05:44	29°♄36'29	18°52'39	evening rise	3034 Dec 20 12:32	7°♄07'32	
	3034 Jan 31 15:08	0°♄		greatest brilliancy	3035 Jan 02 12:12	27°♄03'04	-0.7m
asc. node	3034 Feb 01 20:23	1°♄06'35			3035 Jan 04 11:50	0°♄	
retrograde	3034 Feb 07 00:20	3°♄24'54		evening max el	3035 Jan 14 12:32	13°♄06'49	19°40'47
evening set	3034 Feb 10 06:34	2°♄23'44		asc. node	3035 Jan 19 17:25	16°♄57'25	
	3034 Feb 13 02:11	30°♄		retrograde	3035 Jan 21 21:30	17°♄23'01	
inferior conj	3034 Feb 15 22:10	26°♄40'59	3°30'03	evening set	3035 Jan 25 11:13	16°♄08'21	
minimum elong	3034 Feb 15 20:32	26°♄46'02	3°29'50	inferior conj	3035 Jan 30 22:26	10°♄10'40	3°07'36
min. Earth dist.	3034 Feb 17 14:58	24°♄34'21	0.65539 AU	minimum elong	3035 Jan 30 20:04	10°♄18'27	3°07'06
morning rise	3034 Feb 21 10:06	20°♄29'17		min. Earth dist.	3035 Feb 01 00:35	8°♄44'23	0.66718 AU
direct	3034 Feb 28 00:02	17°♄37'59		morning rise	3035 Feb 05 04:42	3°♄57'24	
desc. node	3034 Mar 11 11:30	23°♄46'53		direct	3035 Feb 11 06:50	1°♄14'34	
morning max el	3034 Mar 13 02:14	25°♄20'55	26°46'52	morning max el	3035 Feb 23 11:18	8°♄30'09	25°35'19
	3034 Mar 17 08:20	0°♄		desc. node	3035 Feb 26 08:31	11°♄35'23	
	3034 Apr 07 04:52	0°♄			3035 Mar 12 08:15	0°♄	
morning set	3034 Apr 17 23:22	19°♄14'13			3035 Mar 30 17:25	0°♄	
max. Earth dist.	3034 Apr 22 06:39	27°♄38'45	1.34379 AU	morning set	3035 Mar 31 17:11	1°♄47'39	
	3034 Apr 23 10:44	0°♄		max. Earth dist.	3035 Apr 04 11:08	8°♄45'51	1.36039 AU
superior conj	3034 Apr 26 13:02	6°♄21'08	-0°43'27	superior conj	3035 Apr 10 05:20	19°♄59'56	-1°11'34
minimum elong	3034 Apr 26 15:17	6°♄32'50	0°43'00	minimum elong	3035 Apr 10 09:01	20°♄18'19	1°10'58
asc. node	3034 Apr 30 19:40	15°♄19'15			3035 Apr 15 03:38	0°♄	
evening rise	3034 May 04 01:08	22°♄05'28		asc. node	3035 Apr 17 16:43	5°♄12'17	
	3034 May 07 22:30	0°♄		evening rise	3035 Apr 18 06:50	6°♄24'11	
evening max el	3034 May 23 15:05	23°♄52'45	21°13'56		3035 May 01 13:41	0°♄	
retrograde	3034 Jun 04 13:52	29°♄43'45		evening max el	3035 May 05 23:31	5°♄09'24	19°57'54
evening set	3034 Jun 06 20:31	29°♄31'46		retrograde	3035 May 16 04:58	10°♄07'09	
desc. node	3034 Jun 07 10:42	29°♄24'54		evening set	3035 May 18 04:39	9°♄56'45	
inferior conj	3034 Jun 16 05:43	25°♄33'11	-2°31'21	desc. node	3035 May 25 07:45	7°♄01'18	
minimum elong	3034 Jun 15 22:52	25°♄42'48	2°29'03	inferior conj	3035 May 27 03:13	5°♄56'35	-0°31'58
min. Earth dist.	3034 Jun 16 14:10	25°♄21'18	0.54861 AU	minimum elong	3035 May 27 01:45	5°♄58'49	0°31'26
morning rise	3034 Jun 25 01:33	21°♄34'36		min. Earth dist.	3035 May 29 03:10	4°♄44'10	0.55349 AU
direct	3034 Jun 28 10:49	21°♄09'46		morning rise	3035 Jun 04 20:55	1°♄32'29	
morning max el	3034 Jul 11 03:42	27°♄12'07	22°26'05	direct	3035 Jun 09 00:36	0°♄54'41	
	3034 Jul 13 21:21	0°♄		morning max el	3035 Jun 22 19:03	7°♄43'01	24°08'44
asc. node	3034 Jul 27 18:54	21°♄20'18			3035 Jul 08 22:54	0°♄	
	3034 Aug 01 02:46	0°♄		asc. node	3035 Jul 14 15:56	10°♄54'35	
morning set	3034 Aug 02 00:39	1°♄53'57		morning set	3035 Jul 17 12:21	16°♄48'50	
					3035 Jul 23 15:04	0°♄	
superior conj	3034 Aug 09 04:16	17°♄06'20	1°38'41	superior conj	3035 Jul 24 12:10	1°♄54'28	1°27'14
minimum elong	3034 Aug 09 02:38	16°♄57'41	1°38'35	minimum elong	3035 Jul 24 09:55	1°♄42'18	1°26'58
max. Earth dist.	3034 Aug 12 09:19	23°♄49'39	1.34243 AU	max. Earth dist.	3035 Jul 26 11:10	6°♄07'50	1.33131 AU
	3034 Aug 15 10:15	0°♄		evening rise	3035 Jul 31 21:07	17°♄26'19	
evening rise	3034 Aug 17 02:24	3°♄18'11			3035 Aug 07 09:22	0°♄	
	3034 Sep 01 07:57	0°♄		desc. node	3035 Aug 21 07:03	22°♄38'08	
desc. node	3034 Sep 03 10:00	3°♄11'29			3035 Aug 26 19:15	0°♄	
evening max el	3034 Sep 20 21:07	25°♄08'40	27°06'53	evening max el	3035 Sep 03 08:21	8°♄20'43	27°26'06
	3034 Sep 26 22:38	0°♄		retrograde	3035 Sep 16 23:34	15°♄37'36	
retrograde	3034 Oct 04 04:31	2°♄26'11		evening set	3035 Sep 24 03:38	12°♄59'50	
	3034 Oct 10 17:04	30°♄		min. Earth dist.	3035 Sep 27 19:36	9°♄47'45	0.63625 AU
evening set	3034 Oct 11 01:28	29°♄43'45		inferior conj	3035 Sep 30 09:51	7°♄09'44	-3°13'02
min. Earth dist.	3034 Oct 14 22:36	25°♄58'17	0.65179 AU	minimum elong	3035 Sep 30 14:59	6°♄56'42	3°11'22
inferior conj	3034 Oct 17 00:27	23°♄38'08	-2°14'04	morning rise	3035 Oct 07 03:35	1°♄51'38	
minimum elong	3034 Oct 17 04:08	23°♄27'46	2°12'39	direct	3035 Oct 09 15:24	1°♄21'20	
morning rise	3034 Oct 23 07:40	18°♄03'34		asc. node	3035 Oct 10 15:08	1°♄26'12	
asc. node	3034 Oct 23 18:07	17°♄52'02		morning max el	3035 Oct 16 05:03	4°♄46'42	17°52'00
direct	3034 Oct 26 00:35	17°♄24'18		morning set	3035 Nov 01 19:44	0°♄19'02	
morning max el	3034 Nov 01 12:38	20°♄53'47	18°07'19		3035 Nov 01 15:21	0°♄	
	3034 Nov 08 12:24	0°♄					
morning set	3034 Nov 19 18:02	18°♄11'09		superior conj	3035 Nov 14 04:20	21°♄15'51	0°21'03
	3034 Nov 26 23:08	0°♄					

minimum elong	3035 Nov 14 06:33	21°  24'57	0°20'45	minimum elong	3036 Oct 25 12:19	2°  38'08	0°57'55
desc. node	3035 Nov 17 06:19	26°  17'45		max. Earth dist.	3036 Nov 01 18:03	14°  49'04	1.42742 AU
	3035 Nov 19 13:31	0°  27		desc. node	3036 Nov 03 03:21	17°  05'02	
max. Earth dist.	3035 Nov 20 04:21	0°  59'21	1.44202 AU	evening rise	3036 Nov 08 11:42	25°  37'51	
evening rise	3035 Nov 29 22:10	16°  15'16			3036 Nov 11 06:55	0°  27	
	3035 Dec 08 23:24	0°  38			3036 Dec 01 22:12	0°  38	
evening max el	3035 Dec 28 14:06	26°  38'28	20°43'05	evening max el	3036 Dec 10 10:02	10°  31'38	21°56'16
	3036 Jan 01 12:19	0°  33		retrograde	3036 Dec 19 16:27	15°  34'39	
retrograde	3036 Jan 05 19:31	1°  30'02		asc. node	3036 Dec 23 11:28	14°  37'47	
asc. node	3036 Jan 06 14:26	1°  26'35		evening set	3036 Dec 24 02:02	13°  35'24	
evening set	3036 Jan 09 18:18	0°  00'35		inferior conj	3036 Dec 29 10:23	7°  37'36	1°55'07
	3036 Jan 09 18:37	30°  43		minimum elong	3036 Dec 29 08:08	7°  45'24	1°54'20
inferior conj	3036 Jan 15 03:14	23°  35'04	2°35'20	min. Earth dist.	3036 Dec 29 11:40	7°  33'09	0.67865 AU
minimum elong	3036 Jan 15 00:40	23°  35'24	2°34'36	morning rise	3037 Jan 03 14:06	1°  26'07	
min. Earth dist.	3036 Jan 15 16:15	23°  30'06	0.67485 AU		3037 Jan 05 17:37	30°  43	
morning rise	3036 Jan 20 06:53	17°  37'31		direct	3037 Jan 08 10:55	29°  22'13	
direct	3036 Jan 25 18:42	15°  31'53			3037 Jan 11 08:45	0°  38	
morning max el	3036 Feb 05 19:48	21°  34'06	24°10'11	morning max el	3037 Jan 18 05:58	5°  30'47	22°41'24
	3036 Feb 12 23:16	0°  33		desc. node	3037 Jan 30 02:35	19°  34'58	
desc. node	3036 Feb 13 05:33	0°  19'53			3037 Feb 06 07:10	0°  33	
	3036 Mar 04 15:12	0°  38		morning set	3037 Feb 21 08:44	23°  28'06	
morning set	3036 Mar 12 14:20	13°  38'28			3037 Feb 25 06:38	0°  38	
max. Earth dist.	3036 Mar 16 07:49	19°  38'51'52	1.38058 AU	max. Earth dist.	3037 Feb 26 03:35	1°  38'29'05	1.40224 AU
	3036 Mar 21 19:55	0°  33					
				superior conj	3037 Mar 05 22:11	15°  38'10'44	-1°56'46
superior conj	3036 Mar 23 09:52	3°  30'00'17	-1°37'05	minimum elong	3037 Mar 06 02:04	15°  38'28'20	1°56'31
minimum elong	3036 Mar 23 14:22	3°  30'21'49	1°36'32		3037 Mar 13 21:12	0°  33	
evening rise	3036 Apr 01 06:04	20°  30'18'41		evening rise	3037 Mar 15 19:41	3°  30'40'24	
asc. node	3036 Apr 03 13:46	24°  30'51'08		asc. node	3037 Mar 21 10:48	14°  30'09'46	
	3036 Apr 06 06:41	0°  38		evening max el	3037 Apr 01 00:07	29°  37'27	18°24'48
evening max el	3036 Apr 17 19:24	17°  30'06'11	19°01'12		3037 Apr 01 09:37	0°  38	
retrograde	3036 Apr 26 10:11	21°  38'17'48		retrograde	3037 Apr 08 10:14	3°  38'17'38	
evening set	3036 Apr 28 13:10	21°  38'03'33		evening set	3037 Apr 10 19:27	2°  38'55'59	
inferior conj	3036 May 06 16:55	16°  38'48'58	1°16'07		3037 Apr 16 02:19	30°  43'30	
minimum elong	3036 May 06 19:45	16°  38'44'01	1°15'10	inferior conj	3037 Apr 18 03:54	28°  30'21'55	2°33'44
min. Earth dist.	3036 May 09 18:41	14°  38'41'07	0.56698 AU	minimum elong	3037 Apr 18 07:42	28°  30'14'09	2°32'48
desc. node	3036 May 11 04:46	13°  38'46'12		min. Earth dist.	3037 Apr 21 14:31	25°  30'34'27	0.58626 AU
morning rise	3036 May 14 23:12	11°  38'49'37		morning rise	3037 Apr 25 17:00	22°  30'51'27	
direct	3036 May 20 02:43	10°  38'47'04		desc. node	3037 Apr 28 01:48	21°  30'50'43	
morning max el	3036 Jun 03 09:38	18°  38'09'20	25°45'34	direct	3037 May 01 19:05	21°  30'14'09	
	3036 Jun 13 06:10	0°  33		morning max el	3037 May 16 04:31	28°  30'57'48	27°00'57
	3036 Jun 30 04:21	0°  38			3037 May 17 05:19	0°  38	
morning set	3036 Jun 30 23:50	1°  38'42'23			3037 Jun 07 00:05	0°  33	
asc. node	3036 Jun 30 13:00	0°  38'45'20		morning set	3037 Jun 15 09:28	16°  33'29'09	
				asc. node	3037 Jun 17 10:05	20°  33'22'01	
superior conj	3036 Jul 07 22:57	16°  38'49'45	1°11'02		3037 Jun 21 15:32	0°  38	
minimum elong	3036 Jul 07 20:36	16°  38'36'50	1°10'39				
max. Earth dist.	3036 Jul 08 19:40	18°  38'43'22	1.32423 AU	superior conj	3037 Jun 22 10:47	1°  38'46'02	0°50'50
	3036 Jul 14 01:21	0°  33		minimum elong	3037 Jun 22 08:47	1°  38'35'03	0°50'26
evening rise	3036 Jul 14 23:42	1°  38'56'36		max. Earth dist.	3037 Jun 22 07:23	1°  38'27'17	1.32109 AU
	3036 Jul 30 07:07	0°  33		evening rise	3037 Jun 29 07:29	16°  38'40'53	
desc. node	3036 Aug 07 04:05	11°  38'21'28			3037 Jul 05 22:47	0°  33	
evening max el	3036 Aug 15 15:46	20°  38'58'40	27°13'55	desc. node	3037 Jul 25 01:05	29°  38'03'53	
retrograde	3036 Aug 29 11:49	28°  38'12'52			3037 Jul 25 21:21	0°  33	
evening set	3036 Sep 05 15:23	25°  38'51'52		evening max el	3037 Jul 28 16:58	2°  38'52'28	26°28'35
min. Earth dist.	3036 Sep 09 05:59	23°  38'05'24	0.61765 AU	retrograde	3037 Aug 11 16:19	10°  38'03'52	
inferior conj	3036 Sep 12 07:17	20°  38'20'33	-4°06'45	evening set	3037 Aug 18 08:08	8°  38'12'49	
minimum elong	3036 Sep 12 12:56	20°  38'07'48	4°05'22	min. Earth dist.	3037 Aug 22 06:21	5°  38'37'15	0.59714 AU
morning rise	3036 Sep 19 12:10	15°  38'22'23		inferior conj	3037 Aug 25 13:19	3°  38'02'08	-4°47'52
direct	3036 Sep 21 21:36	14°  38'58'02		minimum elong	3037 Aug 25 17:34	2°  38'53'44	4°47'18
asc. node	3036 Sep 26 12:12	16°  38'31'38			3037 Aug 29 18:34	30°  43'30	
morning max el	3036 Sep 28 20:11	18°  38'27'39	17°54'55	morning rise	3037 Sep 02 05:07	28°  38'02'26'21	
	3036 Oct 07 04:13	0°  33		direct	3037 Sep 04 15:00	28°  38'05'28	
morning set	3036 Oct 14 17:15	13°  38'02'30'07			3037 Sep 10 10:23	0°  33	
	3036 Oct 23 23:53	0°  33		morning max el	3037 Sep 12 06:51	1°  38'48'39	18°17'16
				asc. node	3037 Sep 13 09:16	2°  38'56'16	
superior conj	3036 Oct 25 08:01	2°  38'19'30	0°58'29	morning set	3037 Sep 28 04:59	27°  38'08'02	

	3037 Sep 29 17:09	0°♄		minimum elong	3038 Sep 20 13:27	27°♄56'36	1°39'07
superior conj	3037 Oct 07 12:12	14°♄35'12	1°24'20	max. Earth dist.	3038 Sep 21 15:18	0°♄	
minimum elong	3037 Oct 07 15:58	14°♄52'21	1°23'57	evening rise	3038 Sep 27 06:18	10°♄24'08	1.38798 AU
max. Earth dist.	3037 Oct 15 02:02	27°♄57'54	1.40860 AU	desc. node	3038 Oct 01 02:45	17°♄11'04	
	3037 Oct 16 06:48	0°♄			3038 Oct 07 21:25	28°♄28'16	
evening rise	3037 Oct 19 19:25	5°♄51'55			3038 Oct 08 20:21	0°♄	
desc. node	3037 Oct 21 00:24	7°♄50'02		evening max el	3038 Oct 29 22:55	0°♄	
	3037 Nov 04 11:37	0°♄		retrograde	3038 Nov 05 14:19	7°♄24'13	24°34'41
evening max el	3037 Nov 23 01:25	23°♄45'29	23°15'30	evening set	3038 Nov 17 01:10	14°♄05'08	
retrograde	3037 Dec 03 10:46	29°♄54'48		min. Earth dist.	3038 Nov 22 12:55	11°♄47'31	
evening set	3037 Dec 08 08:47	27°♄53'09		asc. node	3038 Nov 27 04:14	6°♄30'18	0.67573 AU
asc. node	3037 Dec 10 08:30	25°♄54'06		inferior conj	3038 Nov 27 05:32	6°♄26'01	
inferior conj	3037 Dec 13 18:03	21°♄29'23	1°08'22	minimum elong	3038 Nov 28 00:24	5°♄23'05	0°16'09
minimum elong	3037 Dec 13 16:31	21°♄34'36	1°07'45	transit middle	3038 Nov 28 00:00	5°♄24'24	0°15'59
min. Earth dist.	3037 Dec 13 08:29	22°♄02'14	0.67890 AU	transit begin	3038 Nov 28 00:00	5°♄24'24	0°15'59
morning rise	3037 Dec 19 00:12	15°♄21'28		transit end	3038 Nov 27 23:31	5°♄26'00	
direct	3037 Dec 23 06:37	13°♄40'21			3038 Nov 28 00:29	5°♄22'48	
morning max el	3037 Dec 31 21:11	18°♄40'58	21°17'36	morning rise	3038 Dec 02 15:27	30°♄	
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desc. node	3038 Jan 16 23:38	9°♄36'46			3038 Dec 07 04:33	28°♄01'25	
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morning set	3038 Jan 31 22:29	2°♄18'25		desc. node	3038 Dec 14 19:54	2°♄22'46	20°04'52
max. Earth dist.	3038 Feb 08 04:40	13°♄58'35	1.42258 AU		3039 Jan 03 20:40	29°♄50'04	
				morning set	3039 Jan 03 23:17	0°♄	
superior conj	3038 Feb 15 13:13	26°♄19'55	-2°06'13	max. Earth dist.	3039 Jan 10 19:01	10°♄26'28	
minimum elong	3038 Feb 15 13:57	26°♄23'04	2°06'12		3039 Jan 21 13:51	27°♄22'15	1.43885 AU
	3038 Feb 17 16:04	0°♄			3039 Jan 23 05:11	0°♄	
evening rise	3038 Feb 26 19:54	16°♄20'55		superior conj	3039 Jan 27 02:42	6°♄19'16	-2°00'11
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asc. node	3038 Mar 08 07:50	3°♄01'38		evening rise	3039 Feb 09 02:25	28°♄11'45	
evening max el	3038 Mar 15 10:23	12°♄34'35	18°08'17		3039 Feb 10 03:32	0°♄	
retrograde	3038 Mar 22 03:25	15°♄59'26		asc. node	3039 Feb 23 04:51	21°♄18'24	
evening set	3038 Mar 24 18:44	15°♄28'04		evening max el	3039 Feb 26 23:01	25°♄49'03	18°11'02
inferior conj	3038 Mar 31 10:59	10°♄33'19	3°19'11	retrograde	3039 Mar 05 09:35	29°♄13'16	
minimum elong	3038 Mar 31 13:32	10°♄27'15	3°18'49	evening set	3039 Mar 08 06:32	28°♄30'55	
min. Earth dist.	3038 Apr 03 16:48	7°♄30'31	0.60793 AU	inferior conj	3039 Mar 14 10:28	23°♄16'04	3°38'15
morning rise	3038 Apr 07 06:20	4°♄42'11		minimum elong	3039 Mar 14 11:09	23°♄14'14	3°38'13
direct	3038 Apr 13 23:23	2°♄29'39		min. Earth dist.	3039 Mar 17 03:34	20°♄22'18	0.62879 AU
desc. node	3038 Apr 14 22:50	2°♄32'20		morning rise	3039 Mar 20 14:41	17°♄12'59	
morning max el	3038 Apr 28 05:28	10°♄24'07	27°43'19	direct	3039 Mar 27 12:50	14°♄34'42	
	3038 May 13 11:00	0°♄		desc. node	3039 Apr 01 19:51	15°♄54'51	
	3038 May 30 03:15	0°♄		morning max el	3039 Apr 10 11:50	22°♄31'45	27°48'19
morning set	3038 May 30 15:22	1°♄02'18			3039 Apr 17 02:07	0°♄	
asc. node	3038 Jun 04 07:07	10°♄54'19		morning set	3039 May 06 15:28	0°♄	
max. Earth dist.	3038 Jun 05 18:29	14°♄06'41	1.32197 AU	max. Earth dist.	3039 May 14 15:26	15°♄15'08	
					3039 May 20 01:16	26°♄29'43	1.32701 AU
superior conj	3038 Jun 06 21:53	16°♄36'41	0°27'16		3039 May 21 16:27	0°♄	
minimum elong	3038 Jun 06 20:40	16°♄30'04	0°27'01				
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evening rise	3038 Jun 13 18:15	1°♄31'16		minimum elong	3039 May 22 06:29	1°♄15'46	0°01'03
	3038 Jun 29 05:13	0°♄		behind sun begin	3039 May 22 01:16	0°♄47'34	
evening max el	3038 Jul 10 11:01	13°♄59'25	25°13'52	behind sun end	3039 May 22 11:42	1°♄44'00	
desc. node	3038 Jul 11 22:07	15°♄19'43		asc. node	3039 May 22 04:09	1°♄03'11	
retrograde	3038 Jul 24 10:45	21°♄05'23		evening rise	3039 May 29 06:07	16°♄21'23	
evening set	3038 Jul 30 01:25	19°♄52'47			3039 Jun 05 00:41	0°♄	
min. Earth dist.	3038 Aug 03 22:52	17°♄09'44	0.57698 AU	evening max el	3039 Jun 22 00:36	24°♄32'45	23°40'45
inferior conj	3038 Aug 07 00:30	15°♄04'12	-5°04'55	desc. node	3039 Jun 28 19:06	29°♄36'09	
minimum elong	3038 Aug 07 00:35	15°♄04'03	5°04'55		3039 Jun 29 14:43	0°♄	
morning rise	3038 Aug 15 02:11	10°♄50'39		retrograde	3039 Jul 05 16:39	1°♄23'55	
direct	3038 Aug 17 15:22	10°♄31'15		evening set	3039 Jul 09 20:17	0°♄46'06	
morning max el	3038 Aug 26 09:41	14°♄39'01	19°00'26		3039 Jul 11 23:10	30°♄	
asc. node	3038 Aug 31 06:19	20°♄23'59		min. Earth dist.	3039 Jul 16 10:49	27°♄39'48	0.56030 AU
	3038 Sep 06 03:55	0°♄		inferior conj	3039 Jul 18 15:28	26°♄20'42	-4°42'58
morning set	3038 Sep 12 02:36	11°♄21'17		minimum elong	3039 Jul 18 09:49	26°♄29'14	4°42'09
				morning rise	3039 Jul 27 01:53	22°♄24'39	
superior conj	3038 Sep 20 11:20	27°♄46'28	1°39'15	direct	3039 Jul 29 20:39	22°♄05'14	


































































































































morning max el	3039 Aug 09 01:52	26°  49'37	20°05'14	morning max el	3040 Jul 21 06:26	8°  15'41	21°30'17
	3039 Aug 12 01:41	0°  Ω		asc. node	3040 Aug 04 00:25	27°  34'57	
asc. node	3039 Aug 18 03:22	8°  Ω40'50			3040 Aug 05 07:29	0°  Ω	
morning set	3039 Aug 27 06:59	25°  Ω54'31		morning set	3040 Aug 10 15:42	10°  Ω40'54	
	3039 Aug 29 07:04	0°  ൬					
superior conj	3039 Sep 04 00:21	11°  ൬39'08	1°44'50	superior conj	3040 Aug 17 23:06	26°  Ω01'11	1°42'48
minimum elong	3039 Sep 04 00:42	11°  ൬40'56	1°44'51	minimum elong	3040 Aug 17 22:03	25°  Ω55'44	1°42'46
max. Earth dist.	3039 Sep 09 11:49	22°  ൬22'27	1.36804 AU		3040 Aug 19 21:19	0°  ൬	
evening rise	3039 Sep 13 08:11	29°  ൬31'58		max. Earth dist.	3040 Aug 21 23:35	4°  ൬15'10	1.35069 AU
	3039 Sep 13 14:22	0°  Ω		evening rise	3040 Aug 26 07:29	12°  ൬44'01	
desc. node	3039 Sep 24 18:25	18°  Ω55'22			3040 Sep 04 23:20	0°  Ω	
	3039 Oct 02 02:24	0°  ൬		desc. node	3040 Sep 10 15:26	9°  Ω05'46	
evening max el	3039 Oct 19 02:33	21°  ൬05'21	25°46'33		3040 Sep 26 03:13	0°  ൬	
retrograde	3039 Oct 31 10:49	28°  ൬08'10		evening max el	3040 Sep 30 14:54	4°  ൬43'16	26°43'35
evening set	3039 Nov 06 12:43	25°  ൬36'34		retrograde	3040 Oct 13 15:19	11°  ൬58'14	
min. Earth dist.	3039 Nov 10 20:30	20°  ൬54'37	0.66919 AU	evening set	3040 Oct 20 06:14	9°  ൬17'21	
inferior conj	3039 Nov 12 03:39	19°  ൬15'57	-0°40'18	min. Earth dist.	3040 Oct 24 06:57	5°  ൬11'40	0.65915 AU
minimum elong	3039 Nov 12 04:42	19°  ൬12'37	0°39'51	inferior conj	3040 Oct 26 01:52	3°  ൬05'00	-1°39'31
asc. node	3039 Nov 14 02:34	16°  ൬51'38		minimum elong	3040 Oct 26 04:35	2°  ൬56'58	1°38'24
morning rise	3039 Nov 17 21:01	13°  ൬22'27			3040 Oct 28 20:03	30°  ൬Ω	
direct	3039 Nov 21 03:11	12°  ൬21'26		asc. node	3040 Oct 30 23:37	28°  Ω06'54	
morning max el	3039 Nov 28 02:20	16°  ൬14'25	19°06'31	morning rise	3040 Nov 01 03:38	27°  Ω22'55	
	3039 Dec 08 13:31	0°  ൬		direct	3040 Nov 04 00:41	26°  Ω36'53	
morning set	3039 Dec 20 23:07	19°  ൬05'30			3040 Nov 10 09:55	0°  ൬	
desc. node	3039 Dec 21 17:40	20°  ൬17'48		morning max el	3040 Nov 10 14:50	0°  ൬12'09	18°24'11
	3039 Dec 27 22:53	0°  Ω		morning set	3040 Nov 30 05:28	29°  ൬06'18	
max. Earth dist.	3040 Jan 04 05:37	11°  Ω25'05	1.44905 AU		3040 Nov 30 18:48	0°  ൬	
				desc. node	3040 Dec 07 14:42	10°  ൬55'54	
superior conj	3040 Jan 06 15:43	15°  Ω14'25	-1°34'57	superior conj	3040 Dec 15 17:30	23°  Ω45'19	-0°53'06
minimum elong	3040 Jan 06 06:45	14°  Ω38'57	1°34'07	minimum elong	3040 Dec 15 10:49	23°  Ω19'04	0°52'14
	3040 Jan 15 21:11	0°  Ω		max. Earth dist.	3040 Dec 17 00:31	25°  Ω47'05	1.45205 AU
evening rise	3040 Jan 21 11:09	9°  Ω05'56			3040 Dec 19 17:01	0°  Ω	
	3040 Feb 03 09:58	0°  ൬		evening rise	3040 Dec 31 20:40	19°  Ω04'24	
asc. node	3040 Feb 10 01:53	8°  ൬48'50			3041 Jan 07 19:20	0°  Ω	
evening max el	3040 Feb 10 11:04	9°  ൬12'39	18°32'22	greatest brilliancy	3041 Jan 11 03:57	5°  Ω14'08	-0.8m
retrograde	3040 Feb 17 00:24	12°  ൬49'06		evening max el	3041 Jan 23 20:16	22°  Ω40'58	19°11'10
evening set	3040 Feb 20 03:03	11°  ൬54'57		asc. node	3041 Jan 26 22:55	25°  Ω20'11	
inferior conj	3040 Feb 25 22:15	6°  ൬21'33	3°37'28	retrograde	3041 Jan 30 20:12	26°  Ω40'29	
minimum elong	3040 Feb 25 21:19	6°  ൬24'20	3°37'24	evening set	3041 Feb 03 05:26	25°  Ω33'40	
min. Earth dist.	3040 Feb 27 23:50	3°  ൬54'46	0.64675 AU	inferior conj	3041 Feb 08 18:51	19°  Ω43'59	3°21'53
morning rise	3040 Mar 02 15:02	0°  ൬12'00		minimum elong	3041 Feb 08 16:50	19°  Ω50'25	3°21'33
	3040 Mar 02 20:49	30°  ൬Ω		min. Earth dist.	3041 Feb 10 05:10	17°  Ω54'13	0.66085 AU
direct	3040 Mar 09 09:42	27°  Ω21'43		morning rise	3041 Feb 14 03:57	13°  Ω31'13	
	3040 Mar 16 17:29	0°  ൬		direct	3041 Feb 20 13:07	10°  Ω42'26	
desc. node	3040 Mar 18 16:52	1°  ൬26'19		morning max el	3041 Mar 05 07:10	18°  Ω15'47	26°18'51
morning max el	3040 Mar 22 21:16	5°  ൬12'51	27°18'01	desc. node	3041 Mar 05 13:55	18°  Ω32'53	
	3040 Apr 10 17:57	0°  ൬			3041 Mar 15 04:47	0°  ൬	
morning set	3040 Apr 27 06:50	28°  ൬58'22			3041 Apr 03 17:39	0°  ൬	
	3040 Apr 27 19:26	0°  Ω		morning set	3041 Apr 10 09:56	12°  ൬01'22	
max. Earth dist.	3040 May 01 23:47	8°  Ω24'19	1.33641 AU	max. Earth dist.	3041 Apr 14 11:04	19°  ൬46'22	1.35034 AU
superior conj	3040 May 05 10:45	15°  Ω37'08	-0°26'58	superior conj	3041 Apr 19 08:13	29°  ൬33'23	-0°55'32
minimum elong	3040 May 05 12:08	15°  Ω44'25	0°26'40	minimum elong	3041 Apr 19 11:07	29°  ൬48'11	0°55'00
asc. node	3040 May 08 01:11	21°  Ω08'58			3041 Apr 19 13:25	0°  Ω	
	3040 May 12 04:58	0°  Ω		asc. node	3041 Apr 24 22:13	11°  Ω07'47	
evening rise	3040 May 12 17:10	1°  Ω04'11		evening rise	3041 Apr 27 01:28	15°  Ω33'28	
	3040 May 29 05:40	0°  Ω			3041 May 04 10:53	0°  Ω	
evening max el	3040 Jun 02 16:28	5°  Ω00'53	22°04'46	evening max el	3041 May 15 17:54	15°  Ω54'57	20°39'18
desc. node	3040 Jun 14 16:07	11°  Ω18'15		retrograde	3041 May 26 23:53	21°  Ω24'01	
retrograde	3040 Jun 15 10:45	11°  Ω19'38		evening set	3041 May 29 01:30	21°  Ω13'38	
evening set	3040 Jun 18 05:41	11°  Ω02'20		desc. node	3041 Jun 01 13:09	20°  Ω13'32	
min. Earth dist.	3040 Jun 26 21:41	7°  Ω19'38	0.55032 AU	inferior conj	3041 Jun 07 07:44	17°  Ω15'59	-1°41'21
inferior conj	3040 Jun 27 14:02	6°  Ω56'41	-3°31'49	minimum elong	3041 Jun 07 02:58	17°  Ω22'51	1°39'38
minimum elong	3040 Jun 27 05:49	7°  Ω08'14	3°29'30	min. Earth dist.	3041 Jun 08 09:55	16°  Ω38'22	0.54951 AU
morning rise	3040 Jul 06 07:39	3°  Ω05'05		morning rise	3041 Jun 16 03:47	13°  Ω08'25	
direct	3040 Jul 09 10:05	2°  Ω43'42		direct	3041 Jun 19 19:34	12°  Ω39'36	

morning max el	3041 Jul 03 01:27	19° Π 02'46	23°09'31	desc. node	3042 May 19 10:10	27° \mathcal{B} 12'58	
	3041 Jul 12 02:44	0° \mathfrak{D}		min. Earth dist.	3042 May 21 00:16	26° \mathcal{B} 12'32	0.55823 AU
asc. node	3041 Jul 21 21:27	16° \mathfrak{D} 56'50		morning rise	3042 May 27 00:54	23° \mathcal{B} 10'51	
morning set	3041 Jul 26 02:48	25° \mathfrak{D} 34'14		direct	3042 May 31 14:24	22° \mathcal{B} 23'53	
	3041 Jul 28 04:52	0° Ω		morning max el	3042 Jun 14 15:50	29° \mathcal{B} 29'16	24°51'30
					3042 Jun 15 04:32	0° Π	
superior conj	3041 Aug 02 04:24	10° Ω 42'27	1°34'28		3042 Jul 05 10:48	0° \mathfrak{D}	
minimum elong	3041 Aug 02 02:27	10° Ω 31'59	1°34'17	asc. node	3042 Jul 08 18:31	6° \mathfrak{D} 39'16	
max. Earth dist.	3041 Aug 04 20:10	16° Ω 20'52	1.33715 AU	morning set	3042 Jul 10 14:39	10° \mathfrak{D} 29'45	
evening rise	3041 Aug 09 20:14	26° Ω 34'57					
	3041 Aug 11 14:03	0° \mathfrak{P}		superior conj	3042 Jul 17 13:49	25° \mathfrak{D} 35'19	1°20'55
desc. node	3041 Aug 28 12:29	28° \mathfrak{P} 51'23		minimum elong	3042 Jul 17 11:28	25° \mathfrak{D} 22'30	1°20'35
	3041 Aug 29 07:14	0° \mathfrak{L}		max. Earth dist.	3042 Jul 19 01:06	28° \mathfrak{D} 47'10	1.32779 AU
evening max el	3041 Sep 13 02:51	18° \mathfrak{L} 07'53	27°18'33		3042 Jul 19 14:34	0° Ω	
retrograde	3041 Sep 26 14:14	25° \mathfrak{L} 26'31		evening rise	3042 Jul 24 18:43	10° Ω 54'31	
evening set	3041 Oct 03 14:56	22° \mathfrak{L} 44'22			3042 Aug 03 20:18	0° \mathfrak{P}	
min. Earth dist.	3041 Oct 07 09:26	19° \mathfrak{L} 13'55	0.64555 AU	desc. node	3042 Aug 15 09:31	18° \mathfrak{P} 01'50	
inferior conj	3041 Oct 09 16:44	16° \mathfrak{L} 44'44	-2°39'28		3042 Aug 25 09:05	0° \mathfrak{L}	
minimum elong	3041 Oct 09 21:05	16° \mathfrak{L} 32'58	2°37'52	evening max el	3042 Aug 26 12:49	1° \mathfrak{L} 07'33	27°24'57
morning rise	3041 Oct 16 04:20	11° \mathfrak{L} 17'03		retrograde	3042 Sep 09 06:46	8° \mathfrak{L} 23'56	
asc. node	3041 Oct 17 20:40	10° \mathfrak{L} 46'33		evening set	3042 Sep 16 11:32	5° \mathfrak{L} 51'48	
direct	3041 Oct 18 18:41	10° \mathfrak{L} 42'09		min. Earth dist.	3042 Sep 20 02:15	2° \mathfrak{L} 51'41	0.62866 AU
morning max el	3041 Oct 25 06:42	14° \mathfrak{L} 09'01	17°58'40	inferior conj	3042 Sep 22 21:29	0° \mathfrak{L} 09'00	-3°36'51
	3041 Nov 05 10:03	0° \mathfrak{M}		minimum elong	3042 Sep 23 03:00	29° \mathfrak{P} 55'39	3°35'13
morning set	3041 Nov 11 16:44	10° \mathfrak{M} 32'06			3042 Sep 23 01:12	30° \mathfrak{P}	
	3041 Nov 23 10:55	0° \mathfrak{X}		morning rise	3042 Sep 29 19:56	24° \mathfrak{P} 58'53	
desc. node	3041 Nov 24 11:44	1° \mathfrak{X} 40'14		direct	3042 Oct 02 06:16	24° \mathfrak{P} 31'35	
				asc. node	3042 Oct 04 17:42	25° \mathfrak{P} 00'41	
superior conj	3041 Nov 25 05:12	2° \mathfrak{X} 50'29	-0°04'59	morning max el	3042 Oct 08 22:57	27° \mathfrak{P} 58'04	17°50'51
minimum elong	3041 Nov 25 04:36	2° \mathfrak{X} 48'04	0°04'53		3042 Oct 10 19:25	0° \mathfrak{L}	
behind sun begin	3041 Nov 24 18:37	2° \mathfrak{X} 07'55		morning set	3042 Oct 25 03:39	23° \mathfrak{L} 06'11	
behind sun end	3041 Nov 25 14:35	3° \mathfrak{X} 28'10			3042 Oct 29 01:35	0° \mathfrak{M}	
max. Earth dist.	3041 Nov 29 19:13	10° \mathfrak{X} 08'53	1.44766 AU				
evening rise	3041 Dec 11 11:25	28° \mathfrak{X} 20'46		superior conj	3042 Nov 05 17:15	13° \mathfrak{M} 08'17	0°38'17
	3041 Dec 12 13:13	0° \mathfrak{Z}		minimum elong	3042 Nov 05 20:47	13° \mathfrak{M} 23'04	0°37'48
greatest brilliancy	3041 Dec 25 21:11	20° \mathfrak{Z} 10'58	-0.6m	desc. node	3042 Nov 11 08:48	22° \mathfrak{M} 27'34	
	3042 Jan 01 20:21	0° \mathfrak{A}		max. Earth dist.	3042 Nov 12 11:12	24° \mathfrak{M} 14'23	1.43650 AU
evening max el	3042 Jan 07 00:51	6° \mathfrak{A} 11'12	20°05'45		3042 Nov 16 01:43	0° \mathfrak{X}	
asc. node	3042 Jan 13 19:57	10° \mathfrak{A} 37'32		evening rise	3042 Nov 20 20:37	7° \mathfrak{X} 29'35	
retrograde	3042 Jan 14 18:05	10° \mathfrak{A} 42'12			3042 Dec 05 20:33	0° \mathfrak{Z}	
evening set	3042 Jan 18 11:20	9° \mathfrak{A} 21'34		evening max el	3042 Dec 21 00:01	19° \mathfrak{Z} 43'01	21°13'13
inferior conj	3042 Jan 23 21:20	3° \mathfrak{A} 18'15	2°54'59	retrograde	3042 Dec 29 15:45	24° \mathfrak{Z} 51'03	
minimum elong	3042 Jan 23 18:50	3° \mathfrak{A} 26'41	2°54'23	asc. node	3042 Dec 31 16:59	24° \mathfrak{Z} 27'54	
min. Earth dist.	3042 Jan 24 17:46	2° \mathfrak{A} 09'32	0.67087 AU	evening set	3043 Jan 02 18:52	23° \mathfrak{Z} 15'12	
	3042 Jan 26 09:38	30° \mathfrak{P}		inferior conj	3043 Jan 08 03:23	17° \mathfrak{Z} 01'17	2°19'09
morning rise	3042 Jan 29 02:07	27° \mathfrak{Z} 04'34		minimum elong	3043 Jan 08 00:54	17° \mathfrak{Z} 09'51	2°18'22
direct	3042 Feb 03 22:18	24° \mathfrak{Z} 28'06		min. Earth dist.	3043 Jan 08 11:21	16° \mathfrak{Z} 33'46	0.67695 AU
	3042 Feb 14 03:27	0° \mathfrak{A}		morning rise	3043 Jan 13 06:44	10° \mathfrak{Z} 48'33	
morning max el	3042 Feb 15 15:57	1° \mathfrak{A} 28'49	25°00'09	direct	3043 Jan 18 12:16	8° \mathfrak{Z} 31'31	
desc. node	3042 Feb 20 10:57	6° \mathfrak{A} 47'10		morning max el	3043 Jan 29 00:31	14° \mathfrak{Z} 46'56	23°32'10
	3042 Mar 09 05:48	0° \mathfrak{H}		desc. node	3043 Feb 07 08:00	25° \mathfrak{Z} 49'56	
morning set	3042 Mar 23 19:45	24° \mathfrak{H} 09'58			3043 Feb 10 10:10	0° \mathfrak{A}	
	3042 Mar 27 00:57	0° \mathfrak{Y}			3043 Mar 02 04:40	0° \mathfrak{H}	
max. Earth dist.	3042 Mar 27 11:11	0° \mathfrak{Y} 47'17	1.36853 AU	morning set	3043 Mar 05 06:07	5° \mathfrak{H} 07'01	
				max. Earth dist.	3043 Mar 09 05:59	12° \mathfrak{H} 00'09	1.38972 AU
superior conj	3042 Apr 02 19:59	12° \mathfrak{Y} 56'51	-1°22'52				
minimum elong	3042 Apr 03 00:08	13° \mathfrak{Y} 17'12	1°22'16	superior conj	3043 Mar 16 18:13	25° \mathfrak{H} 37'16	-1°46'23
evening rise	3042 Apr 11 04:45	29° \mathfrak{Y} 42'33		minimum elong	3043 Mar 16 22:41	25° \mathfrak{H} 58'13	1°45'57
	3042 Apr 11 08:14	0° \mathcal{B}			3043 Mar 19 01:53	0° \mathfrak{Y}	
asc. node	3042 Apr 11 19:17	0° \mathcal{B} 55'19		evening rise	3043 Mar 26 00:16	13° \mathfrak{Y} 23'31	
evening max el	3042 Apr 28 07:32	27° \mathcal{B} 29'37	19°31'27	asc. node	3043 Mar 29 16:19	20° \mathfrak{Y} 25'57	
	3042 May 01 09:14	0° Π			3043 Apr 04 01:11	0° \mathcal{B}	
retrograde	3042 May 07 19:49	2° Π 06'11		evening max el	3043 Apr 11 07:39	9° \mathcal{B} 42'11	18°43'22
evening set	3042 May 09 20:00	1° Π 54'47		retrograde	3043 Apr 19 08:35	13° \mathcal{B} 37'59	
	3042 May 14 20:48	30° \mathfrak{P}		evening set	3043 Apr 21 14:17	13° \mathcal{B} 20'51	
inferior conj	3042 May 18 11:07	27° \mathcal{B} 50'01	0°16'47	inferior conj	3043 Apr 29 09:35	8° \mathcal{B} 58'31	1°53'08
minimum elong	3042 May 18 11:50	27° \mathcal{B} 48'51	0°16'31	minimum elong	3043 Apr 29 13:13	8° \mathcal{B} 51'45	1°52'03

min. Earth dist.	3043 May 02 17:16	6°  31'15	0.57465 AU	morning rise	3044 Apr 17 10:51	15°  07'58	
desc. node	3043 May 06 07:12	4°  16'40		desc. node	3044 Apr 22 04:13	13°  23'04	
morning rise	3043 May 07 08:59	3°  45'14		direct	3044 Apr 23 20:26	13°  15'24	
direct	3043 May 12 23:01	2°  28'25		morning max el	3044 May 08 04:49	21°  03'47	27°23'32
morning max el	3043 May 27 07:28	10°  00'55	26°21'04		3044 May 15 22:48	0° 	
	3043 Jun 11 13:20	0° 			3044 Jun 03 09:59	0° 	
morning set	3043 Jun 25 01:33	25°  12'053		morning set	3044 Jun 08 09:49	10°  12'20	
asc. node	3043 Jun 25 15:35	26°  13'508		asc. node	3044 Jun 11 12:38	16°  13'31	
	3043 Jun 27 05:50	0° 		max. Earth dist.	3044 Jun 14 23:31	24°  11'52	1.32102 AU
superior conj	3043 Jul 02 01:15	10°  31'43	1°02'56	superior conj	3044 Jun 15 12:57	25°  12'547	0°41'12
minimum elong	3043 Jul 01 23:00	10°  19'18	1°02'31	minimum elong	3044 Jun 15 11:14	25°  16'22	0°40'52
max. Earth dist.	3043 Jul 02 11:26	11°  27'46	1.32245 AU		3044 Jun 17 14:44	0° 	
evening rise	3043 Jul 08 23:48	25°  31'56		evening rise	3044 Jun 22 09:05	10°  19'25	
	3043 Jul 11 03:49	0° 			3044 Jul 02 11:09	0° 	
	3043 Jul 28 11:47	0° 		desc. node	3044 Jul 19 03:32	23°  30'45	
desc. node	3043 Aug 02 06:32	6°  12'150		evening max el	3044 Jul 20 16:16	25°  01'55	25°59'50
evening max el	3043 Aug 08 18:07	13°  12'28'37	26°58'39		3044 Jul 27 04:02	0° 	
retrograde	3043 Aug 22 15:45	20°  12'40'52		retrograde	3044 Aug 03 15:49	2°  12'51	
evening set	3043 Aug 29 15:46	18°  12'31'32		evening set	3044 Aug 09 22:51	0° 	
min. Earth dist.	3043 Sep 02 08:22	15°  12'51'30	0.60912 AU		3044 Aug 11 01:46	30° 	
inferior conj	3043 Sep 05 12:50	13°  12'08'52	-4°26'17	min. Earth dist.	3044 Aug 14 04:42	27°  12'59'19	0.58843 AU
minimum elong	3043 Sep 05 18:11	12°  12'57'24	4°25'13	inferior conj	3044 Aug 17 11:09	25°  12'34'31	-4°58'52
morning rise	3043 Sep 12 22:24	8°  12'19'35		minimum elong	3044 Aug 17 13:59	25°  12'29'15	4°58'38
direct	3043 Sep 15 07:42	7°  12'56'54		morning rise	3044 Aug 25 07:19	21°  12'08'24	
asc. node	3043 Sep 21 14:46	10°  12'41'22		direct	3044 Aug 27 18:29	20°  12'48'13	
morning max el	3043 Sep 22 12:30	11°  12'31'12	18°01'50	morning max el	3044 Sep 04 20:09	24°  12'39'58	18°33'00
	3043 Oct 04 19:11	0° 		asc. node	3044 Sep 07 11:50	27°  12'34'29	
morning set	3043 Oct 08 07:50	6°  12'29'35			3044 Sep 09 07:51	0° 	
superior conj	3043 Oct 18 07:54	24°  12'43'54	1°10'52	morning set	3044 Sep 21 00:12	20°  12'27'54	
minimum elong	3043 Oct 18 12:12	25°  12'02'56	1°10'21		3044 Sep 25 22:42	0° 	
	3043 Oct 21 08:13	0° 		superior conj	3044 Sep 29 20:49	7°  12'25'18	1°31'54
max. Earth dist.	3043 Oct 25 22:45	7°  12'48'55	1.41989 AU	minimum elong	3044 Sep 29 23:57	7°  12'39'51	1°31'39
desc. node	3043 Oct 29 05:51	13°  12'14'21		max. Earth dist.	3044 Oct 07 05:15	20°  12'41'09	1.39994 AU
evening rise	3043 Oct 31 16:39	17°  12'11'15		evening rise	3044 Oct 11 10:12	27°  12'45'213	
	3043 Nov 08 22:37	0° 			3044 Oct 12 16:55	0° 	
	3043 Nov 30 17:27	0° 		desc. node	3044 Oct 15 02:51	3°  12'156'53	
evening max el	3043 Dec 03 17:59	3°  12'16'51	22°29'37		3044 Nov 01 12:22	0° 	
retrograde	3043 Dec 13 11:35	9°  12'03'56		evening max el	3044 Nov 15 07:58	16°  12'47'53'05	23°49'34
evening set	3043 Dec 18 02:21	7°  12'11'43		retrograde	3044 Nov 26 04:17	23°  12'47'16'39	
asc. node	3043 Dec 18 14:00	6°  12'346'31		evening set	3044 Dec 01 08:10	21°  12'47'07'48	
inferior conj	3043 Dec 23 10:57	0°  12'350'35	1°36'02	asc. node	3044 Dec 04 11:02	17°  12'47'46'48	
minimum elong	3043 Dec 23 08:57	0°  12'357'28	1°35'16	min. Earth dist.	3044 Dec 06 04:05	15°  12'47'31'21	0.67800 AU
min. Earth dist.	3043 Dec 23 07:34	1°  12'302'18	0.67924 AU	inferior conj	3044 Dec 06 18:14	14°  12'47'43'15	0°46'48
	3043 Dec 24 01:35	30° 		minimum elong	3044 Dec 06 17:08	14°  12'47'46'57	0°46'20
morning rise	3043 Dec 28 15:26	24°  12'47'40'34		morning rise	3044 Dec 12 02:07	8°  12'47'37'50	
direct	3044 Jan 02 06:06	22°  12'47'46'16		direct	3044 Dec 16 02:46	7°  12'47'06'17	
morning max el	3044 Jan 11 12:19	28°  12'47'12'36	22°04'43	morning max el	3044 Dec 24 06:40	11°  12'47'48'42	20°45'06
	3044 Jan 13 05:06	0° 			3045 Jan 07 08:07	0° 	
desc. node	3044 Jan 25 05:03	15°  12'327'35		desc. node	3045 Jan 11 02:04	5°  12'329'51	
	3044 Feb 04 02:34	0° 		morning set	3045 Jan 22 15:59	23°  12'306'48	
morning set	3044 Feb 13 11:59	14°  12'47'47'48			3045 Jan 27 01:09	0° 	
max. Earth dist.	3044 Feb 19 03:57	24°  12'47'00'33	1.41126 AU	max. Earth dist.	3045 Jan 31 08:56	6°  12'47'56'05	1.43015 AU
	3044 Feb 22 16:37	0° 		superior conj	3045 Feb 07 02:33	18°  12'47'47'03	-2°05'51
superior conj	3044 Feb 26 22:09	7°  12'47'23'32	-2°02'20	minimum elong	3045 Feb 07 01:07	17°  12'47'56'58	2°05'49
minimum elong	3044 Feb 27 01:03	7°  12'47'36'24	2°02'12		3045 Feb 14 01:46	0° 	
evening rise	3044 Mar 08 08:42	26°  12'47'29'03		evening rise	3045 Feb 19 01:55	8°  12'47'49'34	
	3044 Mar 10 06:07	0° 		asc. node	3045 Mar 02 10:22	28°  12'47'412'12	
asc. node	3044 Mar 15 13:21	9°  12'47'34'10			3045 Mar 03 15:30	0° 	
evening max el	3044 Mar 24 15:07	22°  12'47'25'28	18°15'20	evening max el	3045 Mar 08 02:39	5°  12'47'30'20	18°07'04
retrograde	3044 Mar 31 16:25	25°  12'47'57'11		retrograde	3045 Mar 14 15:51	8°  12'47'53'35	
evening set	3044 Apr 03 04:25	25°  12'47'31'29		evening set	3045 Mar 17 09:31	8°  12'47'17'44	
inferior conj	3044 Apr 10 05:27	20°  12'47'48'16	2°56'42	inferior conj	3045 Mar 23 20:02	3°  12'47'14'02	3°30'06
minimum elong	3044 Apr 10 08:53	20°  12'47'40'46	2°55'59	minimum elong	3045 Mar 23 21:48	3°  12'47'09'36	3°29'55
min. Earth dist.	3044 Apr 13 15:14	17°  12'47'51'28	0.59541 AU	min. Earth dist.	3045 Mar 26 20:56	0°  12'47'12'27	0.61702 AU

	3045 Mar 27 02:10	30° K		retrograde	3046 Feb 26 02:11	22° K 17'22	
morning rise	3045 Mar 30 08:29	27° K 16'38		evening set	3046 Mar 01 01:23	21° K 30'16	
direct	3045 Apr 06 04:39	24° K 51'52		inferior conj	3046 Mar 07 01:13	16° K 07'27	3°39'58
desc. node	3045 Apr 09 01:14	25° K 15'10		minimum elong	3046 Mar 07 01:10	16° K 07'37	3°39'58
	3045 Apr 17 07:08	0° Y		min. Earth dist.	3046 Mar 09 11:56	13° K 23'04	0.63685 AU
morning max el	3045 Apr 20 08:33	2° Y 48'41	27°50'08	morning rise	3046 Mar 13 00:04	10° K 00'50	
	3045 May 10 09:15	0° S		direct	3046 Mar 19 21:35	7° K 15'24	
morning set	3045 May 23 13:31	24° S 27'46		desc. node	3046 Mar 26 22:16	9° K 36'34	
	3045 May 26 05:28	0° II		morning max el	3046 Apr 02 16:37	15° K 12'09	27°39'23
asc. node	3045 May 29 09:41	6° II 47'54			3046 Apr 14 18:49	0° Y	
max. Earth dist.	3045 May 29 09:20	6° II 46'03	1.32355 AU		3046 May 03 00:51	0° S	
				morning set	3046 May 07 10:16	8° S 29'16	
superior conj	3045 May 30 23:12	10° II 12'03	0°16'25	max. Earth dist.	3046 May 12 12:53	18° S 57'14	1.33036 AU
minimum elong	3045 May 30 22:27	10° II 07'55	0°16'16				
evening rise	3045 Jun 06 20:32	25° II 10'10		superior conj	3046 May 15 06:13	24° S 44'23	-0°10'42
	3045 Jun 09 03:52	0° S		minimum elong	3046 May 15 06:45	24° S 47'13	0°10'35
	3045 Jun 27 00:48	0° Q		behind sun begin	3046 May 15 02:44	24° S 25'40	
evening max el	3045 Jul 02 07:33	5° Q 51'05	24°35'36	behind sun end	3046 May 15 10:46	25° S 08'47	
desc. node	3045 Jul 06 00:31	9° Q 00'18		asc. node	3046 May 16 06:42	26° S 55'55	
retrograde	3045 Jul 16 05:23	12° Q 53'17			3046 May 17 16:51	0° II	
evening set	3045 Jul 21 05:59	11° Q 56'26		evening rise	3046 May 22 08:16	9° II 57'39	
min. Earth dist.	3045 Jul 26 18:39	9° Q 05'16	0.56920 AU		3046 Jun 01 17:20	0° S	
inferior conj	3045 Jul 29 13:40	7° Q 17'28	-5°01'17	evening max el	3046 Jun 13 21:05	16° S 18'05	22°59'28
minimum elong	3045 Jul 29 11:18	7° Q 21'18	5°01'09	desc. node	3046 Jun 22 21:32	22° S 14'58	
morning rise	3045 Aug 06 19:16	3° Q 12'52		retrograde	3046 Jun 27 06:24	22° S 58'32	
direct	3045 Aug 09 10:33	2° Q 53'43		evening set	3046 Jun 30 18:32	22° S 31'37	
morning max el	3045 Aug 18 18:50	7° Q 15'14	19°25'29	min. Earth dist.	3046 Jul 08 06:07	19° S 11'16	0.55493 AU
asc. node	3045 Aug 25 08:53	15° Q 25'04		inferior conj	3046 Jul 09 20:46	18° S 15'17	-4°18'54
	3045 Sep 02 14:15	0° M		minimum elong	3046 Jul 09 13:20	18° S 26'06	4°17'22
morning set	3045 Sep 05 01:04	4° M 51'11		morning rise	3046 Jul 18 10:30	14° S 23'05	
				direct	3046 Jul 21 07:51	14° S 03'20	
superior conj	3045 Sep 13 02:31	20° M 56'56	1°42'39	morning max el	3046 Aug 01 06:09	19° S 07'35	20°39'14
minimum elong	3045 Sep 13 03:52	21° M 03'31	1°42'36		3046 Aug 09 20:23	0° Q	
	3045 Sep 17 19:54	0° Q		asc. node	3046 Aug 12 05:56	3° Q 59'07	
max. Earth dist.	3045 Sep 19 09:13	2° Q 53'03	1.37923 AU	morning set	3046 Aug 20 07:34	19° Q 30'42	
evening rise	3045 Sep 23 03:25	9° Q 39'22			3046 Aug 25 09:05	0° M	
desc. node	3045 Oct 01 23:52	24° Q 31'31					
	3045 Oct 05 11:38	0° M		superior conj	3046 Aug 27 20:08	5° M 03'39	1°44'50
	3045 Oct 28 06:53	0° S		minimum elong	3046 Aug 27 19:51	5° M 02'09	1°44'49
evening max el	3045 Oct 28 20:13	0° S 33'10	25°06'28	max. Earth dist.	3046 Sep 01 16:28	14° M 44'33	1.36019 AU
retrograde	3045 Nov 09 16:56	7° S 25'24		evening rise	3046 Sep 05 17:03	22° M 23'58	
evening set	3045 Nov 15 10:44	5° S 01'12			3046 Sep 09 21:58	0° Q	
	3045 Nov 19 22:19	30° K		desc. node	3046 Sep 18 20:53	14° Q 52'29	
min. Earth dist.	3045 Nov 19 22:40	29° M 58'52	0.67339 AU		3046 Sep 29 06:03	0° M	
inferior conj	3045 Nov 20 23:31	28° M 37'35	-0°07'21	evening max el	3046 Oct 11 08:30	14° M 14'15	26°13'03
minimum elong	3045 Nov 20 23:42	28° M 36'59	0°07'17	retrograde	3046 Oct 24 00:40	21° M 23'58	
transit middle	3045 Nov 20 23:42	28° M 36'59	0°07'17	evening set	3046 Oct 30 08:10	18° M 47'50	
transit begin	3045 Nov 20 21:13	28° M 45'06		min. Earth dist.	3046 Nov 03 12:54	14° M 20'59	0.66534 AU
transit end	3045 Nov 21 02:10	28° M 28'52		inferior conj	3046 Nov 05 00:55	12° M 29'53	-1°05'10
asc. node	3045 Nov 21 08:04	28° M 09'39		minimum elong	3046 Nov 05 02:39	12° M 24'30	1°04'25
morning rise	3045 Nov 26 12:52	22° M 38'55		asc. node	3046 Nov 08 05:06	8° M 50'48	
direct	3045 Nov 30 01:08	21° M 27'50		morning rise	3046 Nov 10 21:38	6° M 40'39	
morning max el	3045 Dec 07 08:53	25° M 36'02	19°38'06	direct	3046 Nov 13 23:35	5° M 46'32	
	3045 Dec 11 05:20	0° S		morning max el	3046 Nov 20 18:10	9° M 31'08	18°46'24
greatest brilliancy	3045 Dec 20 12:55	13° S 03'24	-0.7m		3046 Dec 05 10:23	0° S	
desc. node	3045 Dec 28 23:06	25° S 50'08		morning set	3046 Dec 12 02:31	10° S 30'00	
	3045 Dec 31 16:01	0° S		desc. node	3046 Dec 15 20:09	16° S 23'06	
morning set	3046 Jan 01 12:30	1° S 19'04			3046 Dec 24 12:11	0° S	
max. Earth dist.	3046 Jan 13 20:45	20° S 36'57	1.44403 AU	max. Earth dist.	3046 Dec 27 13:49	4° S 48'59	1.45127 AU
superior conj	3046 Jan 18 04:50	27° S 32'28	-1°51'51	superior conj	3046 Dec 28 10:53	6° S 11'44	-1°18'46
minimum elong	3046 Jan 17 21:42	27° S 03'47	1°51'23	minimum elong	3046 Dec 28 02:03	5° S 37'00	1°17'47
	3046 Jan 19 17:26	0° S			3047 Jan 12 10:42	0° S	
evening rise	3046 Jan 31 23:34	20° S 16'48		evening rise	3047 Jan 12 22:20	0° S 46'46	
	3046 Feb 06 17:52	0° K		greatest brilliancy	3047 Jan 19 14:44	11° S 32'32	-0.9m
asc. node	3046 Feb 17 07:23	16° K 10'42			3047 Feb 01 01:48	0° K	
evening max el	3046 Feb 19 15:17	18° K 49'07	18°17'54	evening max el	3047 Feb 03 02:28	2° K 16'06	18°46'53

asc. node	3047 Feb 04 04:23	3° X 18'19	evening rise	3047 Dec 23 22:51	10° Z 24'57	
retrograde	3047 Feb 09 19:25	6° X 00'56	greatest brilliancy	3048 Jan 05 06:51	29° Z 26'20	-0.7m
evening set	3047 Feb 13 00:44	5° X 01'36		3048 Jan 05 15:47	0° \approx	
	3047 Feb 18 04:31	30° $\text{R}\approx$	evening max el	3048 Jan 17 09:59	15° \approx 46'14	19°32'37
inferior conj	3047 Feb 18 17:10	29° \approx 21'17	3°32'23	asc. node	3048 Jan 22 01:26	19° \approx 20'36
minimum elong	3047 Feb 18 15:42	29° \approx 25'47	3°32'14	retrograde	3048 Jan 24 16:20	19° \approx 57'46
min. Earth dist.	3047 Feb 20 12:15	27° \approx 09'11	0.65329 AU	evening set	3048 Jan 28 04:53	18° \approx 45'05
morning rise	3047 Feb 24 06:15	23° \approx 10'09		inferior conj	3048 Feb 02 16:35	12° \approx 49'20
direct	3047 Mar 02 21:38	20° \approx 18'39		minimum elong	3048 Feb 02 14:18	12° \approx 56'50
desc. node	3047 Mar 13 19:19	25° \approx 52'43		min. Earth dist.	3048 Feb 03 20:47	11° \approx 17'01
morning max el	3047 Mar 16 02:22	28° \approx 04'00	26°55'46	morning rise	3048 Feb 07 23:30	6° \approx 36'15
	3047 Mar 17 22:42	0° X		direct	3048 Feb 14 03:33	3° \approx 51'39
	3047 Apr 08 12:30	0° Y		morning max el	3048 Feb 26 11:42	11° \approx 12'00
morning set	3047 Apr 20 20:59	21° Y 57'29		desc. node	3048 Feb 28 16:22	13° \approx 31'07
	3047 Apr 24 23:14	0° Z			3048 Mar 12 11:51	0° X
max. Earth dist.	3047 Apr 25 06:38	0° Z 37'13	1.34174 AU		3048 Mar 31 03:41	0° Y
				morning set	3048 Apr 02 17:22	4° Y 39'01
superior conj	3047 Apr 29 07:56	8° Z 56'41	-0°39'06	max. Earth dist.	3048 Apr 06 12:56	11° Y 48'06
minimum elong	3047 Apr 29 09:58	9° Z 07'15	0°38'41			1.35768 AU
asc. node	3047 May 03 03:45	16° Z 59'48		superior conj	3048 Apr 12 01:41	22° Y 40'16
evening rise	3047 May 06 18:25	24° Z 36'03		minimum elong	3048 Apr 12 05:10	22° Y 57'48
	3047 May 09 09:27	0° II			3048 Apr 15 16:06	0° Z
evening max el	3047 May 26 16:36	26° II 55'33	21°26'41	asc. node	3048 Apr 19 00:46	6° Z 54'30
	3047 May 30 09:26	0° III		evening rise	3048 Apr 20 00:53	8° Z 57'48
retrograde	3047 Jun 07 20:45	2° III 53'55			3048 May 01 11:45	0° II
desc. node	3047 Jun 09 18:32	2° III 45'34		evening max el	3048 May 07 23:09	8° II 05'53
evening set	3047 Jun 10 06:03	2° III 40'55		retrograde	3048 May 18 10:55	13° II 11'44
	3047 Jun 17 06:10	30° RII		evening set	3048 May 20 10:45	13° II 01'29
inferior conj	3047 Jun 19 15:35	28° II 41'04	-2°48'15	desc. node	3048 May 26 15:34	10° II 40'20
minimum elong	3047 Jun 19 08:11	28° II 51'25	2°45'52	inferior conj	3048 May 29 11:38	9° II 02'20
min. Earth dist.	3047 Jun 19 17:35	28° II 38'17	0.54879 AU	minimum elong	3048 May 29 09:18	9° II 05'49
morning rise	3047 Jun 28 11:01	24° II 44'57		min. Earth dist.	3048 May 31 06:15	7° II 58'57
direct	3047 Jul 01 18:24	24° II 21'09		morning rise	3048 Jun 07 06:15	4° II 43'02
	3047 Jul 13 23:21	0° III		direct	3048 Jun 11 06:37	4° II 08'00
morning max el	3047 Jul 14 06:06	0° III 15'32	22°11'14	morning max el	3048 Jun 24 22:14	10° II 49'55
asc. node	3047 Jul 30 03:00	23° III 06'20			3048 Jul 09 05:51	0° III
	3047 Aug 02 15:00	0° I		asc. node	3048 Jul 16 00:04	12° III 37'48
morning set	3047 Aug 04 17:31	4° I 20'41		morning set	3048 Jul 19 05:09	19° III 15'33
					3048 Jul 24 05:02	0° I
superior conj	3047 Aug 11 22:00	19° I 34'45	1°39'58	superior conj	3048 Jul 26 05:18	4° I 21'27
minimum elong	3047 Aug 11 20:31	19° I 26'51	1°39'52	minimum elong	3048 Jul 26 03:07	4° I 09'39
max. Earth dist.	3047 Aug 15 07:58	26° I 41'29	1.34448 AU	max. Earth dist.	3048 Jul 28 08:35	8° I 56'51
	3047 Aug 16 23:01	0° II		evening rise	3048 Aug 02 15:53	19° I 58'14
evening rise	3047 Aug 19 22:37	5° II 54'10			3048 Aug 07 19:54	0° II
	3047 Sep 02 14:22	0° III		desc. node	3048 Aug 22 14:56	24° II 25'25
desc. node	3047 Sep 05 17:55	4° III 53'17			3048 Aug 26 16:09	0° III
evening max el	3047 Sep 23 21:04	27° III 48'41	27°01'38	evening max el	3048 Sep 05 08:34	11° III 04'38
	3047 Sep 26 07:26	0° IV		retrograde	3048 Sep 18 22:47	18° III 22'00
retrograde	3047 Oct 07 02:44	5° IV 05'29		evening set	3048 Sep 26 02:15	15° III 42'39
evening set	3047 Oct 13 22:15	2° IV 23'17		min. Earth dist.	3048 Sep 29 18:45	12° III 26'08
	3047 Oct 16 12:01	30° RIII		inferior conj	3048 Oct 02 07:16	9° III 50'03
min. Earth dist.	3047 Oct 17 20:20	28° III 32'35	0.65380 AU	minimum elong	3048 Oct 02 12:13	9° III 37'17
inferior conj	3047 Oct 19 20:20	26° III 15'52	-2°05'00	morning rise	3048 Oct 08 23:23	4° III 29'28
minimum elong	3047 Oct 19 23:46	26° III 06'04	2°03'38	direct	3048 Oct 11 11:48	3° III 58'04
morning rise	3047 Oct 26 02:05	20° III 39'12		asc. node	3048 Oct 11 23:15	3° III 59'12
asc. node	3047 Oct 26 02:10	20° III 39'05		morning max el	3048 Oct 18 00:46	7° III 23'26
direct	3047 Oct 28 20:02	19° III 58'14			3048 Nov 02 00:21	0° IV
morning max el	3047 Nov 04 08:21	23° III 28'52	18°11'11	morning set	3048 Nov 03 19:47	3° IV 06'52
	3047 Nov 09 14:24	0° V				
morning set	3047 Nov 22 21:37	21° IV 08'58		superior conj	3048 Nov 16 11:26	24° IV 24'13
	3047 Nov 28 07:49	0° VI		minimum elong	3048 Nov 16 13:01	24° IV 30'41
desc. node	3047 Dec 02 17:12	7° VI 04'26		behind sun begin	3048 Nov 16 08:18	24° IV 11'27
				behind sun end	3048 Nov 16 17:43	24° IV 49'54
superior conj	3047 Dec 07 14:21	14° VI 50'22	-0°32'42	desc. node	3048 Nov 18 14:14	27° IV 50'46
minimum elong	3047 Dec 07 10:11	14° VI 33'53	0°32'08		3048 Nov 19 22:17	0° VII
max. Earth dist.	3047 Dec 10 09:18	19° VI 14'24	1.45113 AU	max. Earth dist.	3048 Nov 22 03:48	3° VII 34'03
	3047 Dec 17 06:17	0° Z				1.44367 AU

evening rise	3048 Dec 02 09:22	19°  34'08		desc. node	3049 Nov 05 11:16	18°  38'14	
	3048 Dec 09 05:34	0° 		evening rise	3049 Nov 11 21:11	28°  51'41	
evening max el	3048 Dec 30 12:20	29°  17'44	20°32'58		3049 Nov 12 14:41	0° 	
	3048 Dec 31 05:15	0° 			3049 Dec 02 22:55	0° 	
retrograde	3049 Jan 07 14:26	4°  03'52		evening max el	3049 Dec 13 09:02	12°  349'37	21°44'51
asc. node	3049 Jan 07 22:28	4°  03'14		retrograde	3049 Dec 22 11:39	18°  314'54	
evening set	3049 Jan 11 11:44	2°  36'42		asc. node	3049 Dec 25 19:31	17°  314'34	
	3049 Jan 14 03:41	30°  		evening set	3049 Dec 26 19:27	16°  332'08	
inferior conj	3049 Jan 16 20:52	26°  328'17	2°40'48	inferior conj	3050 Jan 01 03:47	10°  314'26	2°01'43
minimum elong	3049 Jan 16 18:19	26°  336'59	2°40'05	minimum elong	3050 Jan 01 01:28	10°  322'30	2°00'54
min. Earth dist.	3049 Jan 17 11:44	25°  337'34	0.67396 AU	min. Earth dist.	3050 Jan 01 06:47	10°  304'03	0.67832 AU
morning rise	3049 Jan 22 00:44	20°  314'54		morning rise	3050 Jan 06 07:19	4°  302'28	
direct	3049 Jan 27 14:43	17°  346'23		direct	3050 Jan 11 06:22	1°  355'04	
morning max el	3049 Feb 07 20:18	24°  328'35	24°23'18	morning max el	3050 Jan 21 05:56	7°  350'10	22°54'26
	3049 Feb 12 19:30	0° 		desc. node	3050 Feb 01 10:28	21°  327'33	
desc. node	3049 Feb 14 13:25	2°  08'29			3050 Feb 07 11:57	0° 	
	3049 Mar 05 22:49	0° 		morning set	3050 Feb 24 16:43	26°  042'57	
morning set	3049 Mar 15 18:00	16°  019'26			3050 Feb 26 15:55	0° 	
max. Earth dist.	3049 Mar 19 10:21	22°  051'58	1.37741 AU	max. Earth dist.	3050 Mar 01 05:27	4°  021'33	1.39899 AU
	3049 Mar 23 07:15	0° 					
superior conj	3049 Mar 26 08:12	5°  046'46	-1°33'30	superior conj	3050 Mar 08 23:16	18°  005'46	-1°54'21
minimum elong	3049 Mar 26 12:38	6°  008'12	1°32'56	minimum elong	3050 Mar 09 03:22	18°  024'36	1°54'02
evening rise	3049 Apr 04 01:15	22°  056'18		evening rise	3050 Mar 15 08:04	0° 	
asc. node	3049 Apr 05 21:48	26°  035'40		asc. node	3050 Mar 18 16:31	6°  023'42	
	3049 Apr 07 16:00	0° 			3050 Mar 23 18:50	15°  058'02	
evening max el	3049 Apr 20 17:26	19°  056'46	19°08'22	evening max el	3050 Apr 01 16:34	0° 	
retrograde	3049 Apr 29 13:35	24°  014'34		retrograde	3050 Apr 03 21:05	2°  024'05	18°28'59
evening set	3049 May 01 15:38	24°  001'13		evening set	3050 Apr 11 10:42	6°  007'46	
inferior conj	3049 May 09 22:23	19°  049'22	1°01'27	inferior conj	3050 Apr 13 18:58	5°  047'25	
minimum elong	3049 May 10 00:47	19°  045'17	1°00'38	minimum elong	3050 Apr 21 06:10	1°  016'35	2°24'08
min. Earth dist.	3049 May 12 21:25	17°  048'56	0.56448 AU		3050 Apr 21 10:00	1°  008'55	2°23'06
desc. node	3049 May 13 12:36	17°  024'24		min. Earth dist.	3050 Apr 22 20:19	30°  000'00	
morning rise	3049 May 18 06:49	14°  055'06		morning rise	3050 Apr 24 16:34	28°  033'30	0.58313 AU
direct	3049 May 23 06:37	13°  057'00		morning rise	3050 Apr 28 21:58	25°  050'12	
morning max el	3049 Jun 06 12:37	21°  015'33	25°32'11	desc. node	3050 Apr 30 09:37	25°  010'25	
	3049 Jun 14 02:58	0° 		direct	3050 May 04 21:11	24°  018'12	
	3049 Jul 01 16:49	0° 			3050 May 17 02:37	0° 	
asc. node	3049 Jul 02 21:06	2°  026'35		morning max el	3050 May 19 06:34	1°  059'34	26°51'36
morning set	3049 Jul 03 16:45	4°  009'53			3050 Jun 08 08:25	0° 	
				morning set	3050 Jun 18 02:45	18°  058'23	
superior conj	3049 Jul 10 15:46	19°  016'27	1°13'46	asc. node	3050 Jun 19 18:08	22°  027'09	
minimum elong	3049 Jul 10 13:24	19°  003'28	1°13'24		3050 Jun 23 05:31	0° 	
max. Earth dist.	3049 Jul 11 16:13	21°  030'16	1.32498 AU	superior conj	3050 Jun 25 03:33	4°  013'28	0°54'08
	3049 Jul 15 14:41	0° 		minimum elong	3050 Jun 25 01:29	4°  002'01	0°53'45
evening rise	3049 Jul 17 17:27	4°  026'00		max. Earth dist.	3050 Jun 25 03:36	4°  013'44	1.32130 AU
	3049 Jul 31 12:27	0° 		evening rise	3050 Jul 02 00:36	19°  009'11	
desc. node	3049 Aug 09 11:56	13°  016'34			3050 Jul 07 09:12	0° 	
evening max el	3049 Aug 18 16:37	23°  048'26	27°17'53		3050 Jul 26 09:15	0° 	
	3049 Aug 27 13:09	0° 		desc. node	3050 Jul 27 08:56	1°  009'53	
retrograde	3049 Sep 01 12:15	1°  003'33		evening max el	3050 Jul 31 18:55	5°  049'44	26°37'23
	3049 Sep 06 06:19	30°  000'00		retrograde	3050 Aug 14 18:01	13°  001'30	
evening set	3049 Sep 08 16:28	28°  039'06		evening set	3050 Aug 21 12:19	11°  005'26	
min. Earth dist.	3049 Sep 12 06:48	25°  049'35	0.62056 AU	min. Earth dist.	3050 Aug 25 08:39	8°  029'11	0.60027 AU
inferior conj	3049 Sep 15 06:42	23°  044'42	-3°59'15	inferior conj	3050 Aug 28 15:13	5°  051'28	-4°42'54
minimum elong	3049 Sep 15 12:22	22°  051'39	3°57'47	minimum elong	3050 Aug 28 19:52	5°  042'07	4°42'12
morning rise	3049 Sep 22 09:56	18°  003'27		morning rise	3050 Sep 05 05:27	1°  012'06	
direct	3049 Sep 24 19:27	17°  038'28		direct	3050 Sep 07 15:02	0° 	
asc. node	3049 Sep 28 20:19	18°  051'41		morning max el	3050 Sep 15 03:48	4°  031'33	18°12'33
morning max el	3049 Oct 01 16:19	21°  007'01	17°53'15	asc. node	3050 Sep 15 17:21	5°  005'20	
	3049 Oct 08 09:21	0° 		morning set	3050 Oct 01 00:35	29°  043'14	
morning set	3049 Oct 17 14:42	16°  003'36			3050 Oct 01 04:08	0° 	
	3049 Oct 25 10:06	0° 					
superior conj	3049 Oct 28 11:04	5°  016'13	0°53'32	superior conj	3050 Oct 10 11:52	17°  021'44	1°21'08
minimum elong	3049 Oct 28 15:17	5°  034'13	0°52'58	minimum elong	3050 Oct 10 15:49	17°  039'36	1°20'44
max. Earth dist.	3049 Nov 04 17:57	17°  027'42	1.42991 AU		3050 Oct 17 16:35	0° 	
				max. Earth dist.	3050 Oct 18 02:35	0°  042'25	1.41164 AU

































































































































evening rise	3050 Oct 23 01:36	8°♄56'33		desc. node	3051 Oct 10 05:17	0°♄03'22	
desc. node	3050 Oct 23 08:16	9°♄23'41			3051 Oct 10 04:27	0°♄	
	3050 Nov 05 16:48	0°♄			3051 Oct 30 20:28	0°♄	
evening max el	3050 Nov 26 01:01	26°♄23'59	23°03'36	evening max el	3051 Nov 08 14:12	10°♄02'34	24°23'12
	3050 Nov 30 03:25	0°♄		retrograde	3051 Nov 19 21:19	16°♄39'01	
retrograde	3050 Dec 06 06:21	2°♄27'40		evening set	3051 Nov 25 07:01	14°♄23'38	
evening set	3050 Dec 11 02:24	0°♄28'35		asc. node	3051 Nov 29 13:36	9°♄34'27	
	3050 Dec 11 15:23	30°♄		min. Earth dist.	3051 Nov 29 23:32	9°♄01'27	0.67644 AU
asc. node	3050 Dec 12 16:34	28°♄56'28		inferior conj	3051 Nov 30 18:07	7°♄59'09	0°24'22
inferior conj	3050 Dec 16 11:27	24°♄05'25	1°15'50	minimum elong	3051 Nov 30 17:31	8°♄01'07	0°24'07
minimum elong	3050 Dec 16 09:48	24°♄11'07	1°15'11	morning rise	3051 Dec 06 04:04	1°♄56'12	
min. Earth dist.	3050 Dec 16 03:31	24°♄32'46	0.67909 AU	direct	3051 Dec 09 23:19	0°♄33'29	
morning rise	3050 Dec 21 17:05	17°♄56'49		morning max el	3051 Dec 17 17:37	4°♄59'48	20°14'51
direct	3050 Dec 26 01:38	16°♄12'14			3052 Jan 05 05:18	0°♄	
morning max el	3051 Jan 03 20:04	21°♄19'18	21°29'28	desc. node	3052 Jan 06 04:32	1°♄27'22	
	3051 Jan 11 04:19	0°♄		morning set	3052 Jan 14 08:04	13°♄53'56	
desc. node	3051 Jan 19 07:30	11°♄16'35		max. Earth dist.	3052 Jan 24 13:50	0°♄00'41	1.43678 AU
	3051 Jan 31 18:44	0°♄			3052 Jan 24 13:40	0°♄	
morning set	3051 Feb 04 10:22	5°♄43'46		superior conj	3052 Jan 30 11:09	9°♄34'51	-2°02'17
max. Earth dist.	3051 Feb 11 05:30	16°♄42'59	1.41973 AU	minimum elong	3052 Jan 30 07:13	9°♄18'37	2°02'09
					3052 Feb 11 12:19	0°♄	
superior conj	3051 Feb 18 17:47	29°♄25'01	-2°05'40	evening rise	3052 Feb 12 04:23	1°♄09'43	
minimum elong	3051 Feb 18 19:11	29°♄31'05	2°05'39	asc. node	3052 Feb 25 12:54	23°♄17'23	
	3051 Feb 19 01:51	0°♄		evening max el	3052 Feb 29 19:13	28°♄30'31	18°09'25
evening rise	3051 Mar 01 18:59	19°♄10'54			3052 Mar 02 11:32	0°♄	
	3051 Mar 07 18:52	0°♄		retrograde	3052 Mar 07 06:07	1°♄54'02	
asc. node	3051 Mar 10 15:51	4°♄54'34		evening set	3052 Mar 10 02:15	1°♄13'20	
evening max el	3051 Mar 18 06:46	15°♄18'13	18°09'31		3052 Mar 12 02:02	30°♄	
retrograde	3051 Mar 25 01:31	18°♄44'13		inferior conj	3052 Mar 16 07:46	26°♄01'14	3°36'43
evening set	3051 Mar 27 16:02	18°♄14'20		minimum elong	3052 Mar 16 08:43	25°♄58'41	3°36'40
inferior conj	3051 Apr 03 10:26	13°♄22'37	3°14'09	min. Earth dist.	3052 Mar 19 02:56	23°♄04'57	0.62581 AU
minimum elong	3051 Apr 03 13:15	13°♄16'05	3°13'40	morning rise	3052 Mar 22 14:00	19°♄59'28	
min. Earth dist.	3051 Apr 06 17:37	10°♄20'34	0.60468 AU	direct	3052 Mar 29 11:54	17°♄24'24	
morning rise	3051 Apr 10 08:20	7°♄34'06		desc. node	3052 Apr 03 03:41	18°♄26'27	
direct	3051 Apr 16 23:50	5°♄26'28		morning max el	3052 Apr 12 12:16	25°♄21'21	27°49'58
desc. node	3051 Apr 17 06:39	5°♄26'42			3052 Apr 16 18:42	0°♄	
morning max el	3051 May 01 06:30	13°♄19'26	27°39'23		3052 May 07 00:24	0°♄	
	3051 May 14 13:25	0°♄		morning set	3052 May 16 10:24	17°♄50'05	
	3051 May 31 15:30	0°♄		max. Earth dist.	3052 May 21 22:49	29°♄21'16	1.32601 AU
morning set	3051 Jun 02 09:20	3°♄33'55			3052 May 22 06:03	0°♄	
asc. node	3051 Jun 06 15:09	12°♄33'47		superior conj	3052 May 23 23:59	3°♄46'28	0°05'11
max. Earth dist.	3051 Jun 08 15:05	16°♄54'51	1.32160 AU	minimum elong	3052 May 23 23:45	3°♄45'08	0°05'08
				behind sun begin	3052 May 23 18:48	3°♄18'19	
superior conj	3051 Jun 09 14:52	19°♄05'18	0°31'03	behind sun end	3052 May 24 04:41	4°♄11'59	
minimum elong	3051 Jun 09 13:31	18°♄57'53	0°30'46	asc. node	3052 May 23 12:11	2°♄42'30	
	3051 Jun 14 14:27	0°♄		evening rise	3052 May 30 22:52	18°♄49'38	
evening rise	3051 Jun 16 11:03	3°♄59'11			3052 Jun 05 10:18	0°♄	
	3051 Jun 30 07:37	0°♄		evening max el	3052 Jun 24 03:51	27°♄39'54	23°55'07
evening max el	3051 Jul 13 14:03	17°♄03'34	25°26'28		3052 Jun 26 19:17	0°♄	
desc. node	3051 Jul 14 05:56	17°♄40'45		desc. node	3052 Jun 30 02:56	2°♄17'30	
retrograde	3051 Jul 27 13:53	24°♄10'11		retrograde	3052 Jul 07 21:38	4°♄34'20	
evening set	3051 Aug 02 09:11	22°♄51'47		evening set	3052 Jul 12 06:53	3°♄51'55	
min. Earth dist.	3051 Aug 07 02:03	20°♄11'01	0.57990 AU	min. Earth dist.	3052 Jul 18 14:17	0°♄50'01	0.56243 AU
inferior conj	3051 Aug 10 05:21	18°♄00'01	-5°04'32		3052 Jul 19 23:13	30°♄	
minimum elong	3051 Aug 10 06:14	17°♄58'28	5°04'31	inferior conj	3052 Jul 20 23:13	29°♄23'08	-4°49'23
morning rise	3051 Aug 18 05:38	13°♄43'11		minimum elong	3052 Jul 20 18:22	29°♄30'35	4°48'48
direct	3051 Aug 20 18:15	13°♄23'35		morning rise	3052 Jul 29 08:26	25°♄25'17	
morning max el	3051 Aug 29 07:55	17°♄26'52	18°52'36	direct	3052 Aug 01 02:18	25°♄05'57	
asc. node	3051 Sep 02 14:23	22°♄24'24		morning max el	3052 Aug 11 01:49	29°♄43'50	19°54'18
	3051 Sep 07 11:17	0°♄			3052 Aug 11 08:40	0°♄	
morning set	3051 Sep 14 20:58	13°♄53'09		asc. node	3052 Aug 19 11:26	10°♄34'38	
				morning set	3052 Aug 29 00:31	28°♄24'10	
superior conj	3051 Sep 23 08:32	0°♄25'51	1°37'37		3052 Aug 29 19:25	0°♄	
minimum elong	3051 Sep 23 10:55	0°♄37'13	1°37'28	superior conj	3052 Sep 05 19:47	14°♄13'34	1°44'32
	3051 Sep 23 03:07	0°♄					
max. Earth dist.	3051 Sep 30 07:27	13°♄15'54	1.39111 AU				
evening rise	3051 Oct 04 05:24	20°♄06'07					

minimum elong	3052 Sep 05 20:24	14° \mathbb{M} 16'36	1°44'31			3053 Aug 21 10:18	0° \mathbb{M}	
max. Earth dist.	3052 Sep 11 12:32	25° \mathbb{M} 17'40	1.37086 AU	max. Earth dist.		3053 Aug 24 22:59	7° \mathbb{M} 09'34	1.35301 AU
	3052 Sep 14 01:18	0° \mathbb{L}		evening rise		3053 Aug 29 04:47	15° \mathbb{M} 24'22	
evening rise	3052 Sep 15 07:47	2° \mathbb{L} 18'36				3053 Sep 06 07:53	0° \mathbb{L}	
desc. node	3052 Sep 26 02:18	20° \mathbb{L} 32'45		desc. node		3053 Sep 12 23:20	10° \mathbb{L} 46'25	
	3052 Oct 02 06:44	0° \mathbb{M}				3053 Sep 26 20:38	0° \mathbb{M}	
evening max el	3052 Oct 21 02:22	23° \mathbb{M} 43'37	25°36'33	evening max el		3053 Oct 03 14:40	7° \mathbb{M} 22'46	26°36'15
	3052 Oct 29 18:39	0° \mathbb{J}		retrograde		3053 Oct 16 13:10	14° \mathbb{M} 36'55	
retrograde	3052 Nov 02 07:44	0° \mathbb{J} 43'58		evening set		3053 Oct 23 02:15	11° \mathbb{M} 56'57	
	3052 Nov 05 14:50	30° \mathbb{R} \mathbb{M}		min. Earth dist.		3053 Oct 27 03:57	7° \mathbb{M} 45'50	0.66089 AU
evening set	3052 Nov 08 07:37	28° \mathbb{M} 14'06		inferior conj		3053 Oct 28 21:06	5° \mathbb{M} 42'55	-1°30'26
min. Earth dist.	3052 Nov 12 16:26	23° \mathbb{M} 26'57	0.67041 AU	minimum elong		3053 Oct 28 23:33	5° \mathbb{M} 35'34	1°29'24
inferior conj	3052 Nov 13 21:58	21° \mathbb{M} 52'35	-0°31'33	asc. node		3053 Nov 02 07:41	1° \mathbb{M} 02'51	
minimum elong	3052 Nov 13 22:47	21° \mathbb{M} 49'58	0°31'11	morning rise		3053 Nov 03 21:30	29° \mathbb{L} 58'56	
asc. node	3052 Nov 15 10:39	19° \mathbb{M} 57'34				3053 Nov 03 20:44	30° \mathbb{R} \mathbb{L}	
morning rise	3052 Nov 19 14:15	15° \mathbb{M} 57'47		direct		3053 Nov 06 19:43	29° \mathbb{L} 11'00	
direct	3052 Nov 22 21:56	14° \mathbb{M} 54'18				3053 Nov 09 20:21	0° \mathbb{M}	
morning max el	3052 Nov 29 23:03	18° \mathbb{M} 50'45	19°14'13	morning max el		3053 Nov 13 10:51	2° \mathbb{M} 48'26	18°29'23
	3052 Dec 08 16:49	0° \mathbb{J}				3053 Dec 02 02:31	0° \mathbb{J}	
morning set	3052 Dec 23 09:28	22° \mathbb{J} 24'08		morning set		3053 Dec 03 11:25	2° \mathbb{J} 11'44	
desc. node	3052 Dec 23 01:33	21° \mathbb{J} 53'23		desc. node		3053 Dec 09 22:38	12° \mathbb{J} 30'28	
	3052 Dec 28 06:38	0° \mathbb{Z}						
max. Earth dist.	3053 Jan 06 04:47	13° \mathbb{Z} 58'50	1.44798 AU	superior conj		3053 Dec 19 05:31	27° \mathbb{J} 09'06	-1°00'08
				minimum elong		3053 Dec 18 22:06	26° \mathbb{J} 39'57	0°59'13
superior conj	3053 Jan 09 03:17	18° \mathbb{Z} 37'44	-1°40'00	max. Earth dist.		3053 Dec 19 23:13	28° \mathbb{J} 18'30	1.45211 AU
minimum elong	3053 Jan 08 18:35	18° \mathbb{Z} 03'14	1°39'14			3053 Dec 21 01:05	0° \mathbb{Z}	
	3053 Jan 16 05:31	0° \mathbb{X}		evening rise		3054 Jan 04 05:27	22° \mathbb{Z} 18'52	
evening rise	3053 Jan 23 16:33	12° \mathbb{X} 12'34				3054 Jan 09 01:57	0° \mathbb{X}	
	3053 Feb 03 13:26	0° \mathbb{H}		greatest brilliancy		3054 Jan 13 18:19	7° \mathbb{X} 22'14	-0.8m
asc. node	3053 Feb 11 09:57	10° \mathbb{H} 55'35		evening max el		3054 Jan 26 17:13	25° \mathbb{X} 20'35	19°04'21
evening max el	3053 Feb 12 07:29	11° \mathbb{H} 52'47	18°28'03	asc. node		3054 Jan 29 06:59	27° \mathbb{X} 36'45	
retrograde	3053 Feb 18 19:58	15° \mathbb{H} 26'54		retrograde		3054 Feb 02 15:12	29° \mathbb{X} 16'06	
evening set	3053 Feb 21 21:41	14° \mathbb{H} 34'37		evening set		3054 Feb 05 23:20	28° \mathbb{X} 11'20	
inferior conj	3053 Feb 27 17:58	9° \mathbb{H} 03'47	3°38'34	inferior conj		3054 Feb 11 13:27	22° \mathbb{X} 24'01	3°24'59
minimum elong	3053 Feb 27 17:15	9° \mathbb{H} 05'54	3°38'33	minimum elong		3054 Feb 11 11:34	22° \mathbb{X} 29'59	3°24'43
min. Earth dist.	3053 Mar 01 21:54	6° \mathbb{H} 32'05	0.64428 AU	min. Earth dist.		3054 Feb 13 02:02	20° \mathbb{X} 28'10	0.65903 AU
morning rise	3053 Mar 05 12:12	2° \mathbb{H} 54'47		morning rise		3054 Feb 16 23:28	16° \mathbb{X} 11'29	
direct	3053 Mar 12 07:45	0° \mathbb{H} 05'24		direct		3054 Feb 23 10:22	13° \mathbb{X} 21'33	
desc. node	3053 Mar 21 00:43	3° \mathbb{H} 40'33		desc. node		3054 Mar 07 21:47	20° \mathbb{X} 34'36	
morning max el	3053 Mar 25 21:32	7° \mathbb{H} 58'29	27°24'33	morning max el		3054 Mar 08 07:29	20° \mathbb{X} 58'50	26°29'05
	3053 Apr 11 22:41	0° \mathbb{Y}				3054 Mar 16 03:04	0° \mathbb{H}	
	3053 Apr 29 07:07	0° \mathbb{B}				3054 Apr 05 02:31	0° \mathbb{Y}	
morning set	3053 Apr 30 03:20	1° \mathbb{B} 38'34		morning set		3054 Apr 13 08:33	14° \mathbb{Y} 48'26	
max. Earth dist.	3053 May 04 22:51	11° \mathbb{B} 20'53	1.33467 AU	max. Earth dist.		3054 Apr 17 11:45	22° \mathbb{Y} 46'45	1.34791 AU
						3054 Apr 21 02:03	0° \mathbb{B}	
superior conj	3053 May 08 05:01	18° \mathbb{B} 10'45	-0°22'38					
minimum elong	3053 May 08 06:10	18° \mathbb{B} 16'50	0°22'24	superior conj		3054 Apr 22 03:40	2° \mathbb{B} 11'15	-0°51'14
asc. node	3053 May 10 09:14	22° \mathbb{B} 49'09		minimum elong		3054 Apr 22 06:20	2° \mathbb{B} 24'59	0°50'44
	3053 May 13 17:47	0° \mathbb{I}		asc. node		3054 Apr 27 06:17	12° \mathbb{B} 49'22	
evening rise	3053 May 15 10:11	3° \mathbb{I} 34'02		evening rise		3054 Apr 29 19:02	18° \mathbb{B} 05'40	
	3053 May 30 00:20	0° \mathbb{E}				3054 May 05 18:48	0° \mathbb{I}	
evening max el	3053 Jun 05 18:51	8° \mathbb{E} 06'55	22°18'43	evening max el		3054 May 18 18:39	18° \mathbb{I} 56'09	20°51'08
desc. node	3053 Jun 16 23:57	14° \mathbb{E} 25'18		retrograde		3054 May 30 06:48	24° \mathbb{I} 33'07	
retrograde	3053 Jun 18 17:38	14° \mathbb{E} 32'14		evening set		3054 Jun 01 09:44	24° \mathbb{I} 22'23	
evening set	3053 Jun 21 16:34	14° \mathbb{E} 12'54		desc. node		3054 Jun 03 20:59	23° \mathbb{I} 44'51	
min. Earth dist.	3053 Jun 30 01:16	10° \mathbb{E} 36'26	0.55121 AU	inferior conj		3054 Jun 10 17:19	20° \mathbb{I} 24'47	-1°59'32
inferior conj	3053 Jun 30 23:47	10° \mathbb{E} 04'39	-3°45'41	minimum elong		3054 Jun 10 11:44	20° \mathbb{I} 32'43	1°57'34
minimum elong	3053 Jun 30 15:33	10° \mathbb{E} 16'17	3°43'33	min. Earth dist.		3054 Jun 11 13:23	19° \mathbb{I} 56'12	0.54895 AU
morning rise	3053 Jul 09 16:29	6° \mathbb{E} 13'37		morning rise		3054 Jun 19 13:24	16° \mathbb{I} 20'42	
direct	3053 Jul 12 17:25	5° \mathbb{E} 52'50		direct		3054 Jun 23 02:43	15° \mathbb{I} 53'27	
morning max el	3053 Jul 24 08:12	11° \mathbb{E} 17'24	21°16'33	morning max el		3054 Jul 06 04:23	22° \mathbb{I} 09'38	22°54'13
asc. node	3053 Aug 06 08:29	29° \mathbb{E} 24'05				3054 Jul 13 00:18	0° \mathbb{E}	
	3053 Aug 06 16:23	0° \mathbb{O}		asc. node		3054 Jul 24 05:32	18° \mathbb{E} 42'23	
morning set	3053 Aug 13 08:47	13° \mathbb{O} 09'26		morning set		3054 Jul 28 19:39	28° \mathbb{E} 02'07	
						3054 Jul 29 18:00	0° \mathbb{O}	
superior conj	3053 Aug 20 17:23	28° \mathbb{O} 32'35	1°43'33					
minimum elong	3053 Aug 20 16:31	28° \mathbb{O} 28'07	1°43'31	superior conj		3054 Aug 04 21:53	13° \mathbb{O} 11'37	1°36'06

minimum elong	3054 Aug 04 20:02	13° Ω 01'44	1°35'56			3055 Jun 14 18:15	0° Π	
max. Earth dist.	3054 Aug 07 18:11	19° Ω 12'27	1.33891 AU	morning max el		3055 Jun 17 18:55	2° Π 36'43	24°36'44
evening rise	3054 Aug 12 15:48	29° Ω 10'28				3055 Jul 06 20:44	0° Θ	
	3054 Aug 13 01:52	0° Π		asc. node		3055 Jul 11 02:36	8° Θ 21'55	
	3054 Aug 30 10:37	0° Ω		morning set		3055 Jul 13 07:27	12° Θ 57'10	
desc. node	3054 Aug 30 20:21	0° Ω 36'17						
evening max el	3054 Sep 16 02:51	20° Ω 50'21	27°15'01	superior conj		3055 Jul 20 06:47	28° Θ 02'40	1°23'15
retrograde	3054 Sep 29 13:00	28° Ω 08'53		minimum elong		3055 Jul 20 04:27	27° Θ 50'01	1°22'58
evening set	3054 Oct 06 12:27	25° Ω 26'28				3055 Jul 21 04:23	0° Ω	
min. Earth dist.	3054 Oct 10 07:51	21° Ω 50'44	0.64781 AU	max. Earth dist.		3055 Jul 21 22:02	1° Ω 35'35	1.32894 AU
inferior conj	3054 Oct 12 13:13	19° Ω 24'32	-2°30'25	evening rise		3055 Jul 27 12:59	13° Ω 25'58	
minimum elong	3054 Oct 12 17:21	19° Ω 13'13	2°28'53			3055 Aug 05 05:02	0° Π	
morning rise	3054 Oct 18 23:16	13° Ω 54'21		desc. node		3055 Aug 17 17:20	19° Π 52'25	
asc. node	3054 Oct 20 04:44	13° Ω 28'27				3055 Aug 25 18:23	0° Ω	
direct	3054 Oct 21 14:25	13° Ω 18'02		evening max el		3055 Aug 29 13:20	3° Ω 54'37	27°26'03
morning max el	3054 Oct 28 02:22	16° Ω 45'44	18°01'20	retrograde		3055 Sep 12 06:24	11° Ω 11'03	
	3054 Nov 06 16:16	0° Π		evening set		3055 Sep 19 11:04	8° Ω 36'47	
morning set	3054 Nov 14 18:40	13° Π 26'02		min. Earth dist.		3055 Sep 23 02:09	5° Ω 32'36	0.63138 AU
	3054 Nov 24 19:35	0° Σ		inferior conj		3055 Sep 25 19:40	2° Ω 51'21	-3°28'31
desc. node	3054 Nov 26 19:41	3° Σ 14'14		minimum elong		3055 Sep 26 01:03	2° Ω 38'02	3°26'52
						3055 Sep 28 21:33	30° Σ	
superior conj	3054 Nov 28 14:33	6° Σ 06'12	-0°12'09	morning rise		3055 Oct 02 16:27	27° Π 38'15	
minimum elong	3054 Nov 28 13:04	6° Σ 00'14	0°11'57	direct		3055 Oct 05 03:14	27° Π 09'58	
behind sun begin	3054 Nov 28 05:52	5° Σ 31'26		asc. node		3055 Oct 07 01:48	27° Π 28'08	
behind sun end	3054 Nov 28 20:16	6° Σ 29'01				3055 Oct 11 03:35	0° Ω	
max. Earth dist.	3054 Dec 02 18:01	12° Σ 41'15	1.44880 AU	morning max el		3055 Oct 11 18:42	0° Ω 35'56	17°50'49
	3054 Dec 13 20:26	0° Σ		morning set		3055 Oct 28 02:26	25° Ω 51'03	
evening rise	3054 Dec 14 22:24	1° Σ 40'13				3055 Oct 30 11:15	0° Π	
greatest brilliancy	3054 Dec 28 23:02	23° Σ 00'39	-0.6m					
	3055 Jan 02 19:28	0° \approx		superior conj		3055 Nov 08 22:29	16° Π 11'40	0°32'22
evening max el	3055 Jan 09 22:38	8° \approx 51'19	19°56'43	minimum elong		3055 Nov 09 01:37	16° Π 24'43	0°31'55
asc. node	3055 Jan 16 04:00	13° \approx 06'43		desc. node		3055 Nov 13 16:41	24° Π 01'02	
retrograde	3055 Jan 17 12:52	13° \approx 16'59		max. Earth dist.		3055 Nov 15 10:46	26° Π 50'57	1.43855 AU
evening set	3055 Jan 21 04:50	11° \approx 58'30				3055 Nov 17 10:02	0° Σ	
inferior conj	3055 Jan 26 15:14	5° \approx 57'10	2°59'42	evening rise		3055 Nov 24 07:18	10° Σ 47'29	
minimum elong	3055 Jan 26 12:46	6° \approx 05'24	2°59'07			3055 Dec 07 01:03	0° Σ	
min. Earth dist.	3055 Jan 27 13:39	4° \approx 42'12	0.66968 AU	evening max el		3055 Dec 23 22:39	22° Σ 23'06	21°02'30
morning rise	3055 Jan 31 20:28	29° Σ 43'35		retrograde		3056 Jan 01 10:38	27° Σ 25'10	
	3055 Jan 31 13:24	30° Σ		asc. node		3056 Jan 03 01:02	27° Σ 11'03	
direct	3055 Feb 06 18:48	27° Σ 04'37		evening set		3056 Jan 05 12:13	25° Σ 51'34	
	3055 Feb 13 22:48	0° \approx		inferior conj		3056 Jan 10 20:51	19° Σ 39'03	2°25'07
morning max el	3055 Feb 18 16:20	4° \approx 10'52	25°12'40	minimum elong		3056 Jan 10 18:20	19° Σ 47'43	2°24'20
desc. node	3055 Feb 22 18:52	8° \approx 40'31		min. Earth dist.		3056 Jan 11 06:34	19° Σ 05'36	0.67631 AU
	3055 Mar 10 11:22	0° Σ		morning rise		3056 Jan 16 00:15	13° Σ 26'12	
morning set	3055 Mar 26 21:18	27° Σ 06'15		direct		3056 Jan 21 08:02	11° Σ 06'02	
	3055 Mar 28 11:39	0° Υ		morning max el		3056 Feb 01 00:44	17° Σ 28'19	23°45'29
max. Earth dist.	3055 Mar 30 13:11	3° Υ 48'51	1.36561 AU	desc. node		3056 Feb 09 15:54	27° Σ 37'01	
						3056 Feb 11 11:12	0° \approx	
superior conj	3055 Apr 05 17:07	15° Υ 40'25	-1°18'55			3056 Mar 02 13:01	0° Σ	
minimum elong	3055 Apr 05 21:06	16° Υ 00'09	1°18'18	morning set		3056 Mar 07 11:31	8° Σ 14'52	
	3055 Apr 12 19:52	0° Σ		max. Earth dist.		3056 Mar 11 08:32	14° Σ 58'52	1.38654 AU
evening rise	3055 Apr 13 23:13	2° Σ 18'16						
asc. node	3055 Apr 14 03:20	2° Σ 38'57		superior conj		3056 Mar 18 17:36	28° Σ 27'56	-1°43'14
	3055 Apr 30 20:38	0° Π		minimum elong		3056 Mar 18 22:08	28° Σ 49'17	1°42'44
evening max el	3055 May 01 06:29	0° Π 24'25	19°40'18			3056 Mar 19 13:04	0° Υ	
retrograde	3055 May 11 00:38	5° Π 08'05		evening rise		3056 Mar 27 20:04	16° Υ 03'59	
evening set	3055 May 13 00:29	4° Π 57'08		asc. node		3056 Mar 31 00:21	22° Υ 12'27	
inferior conj	3055 May 21 18:21	0° Π 54'18	-0°00'15			3056 Apr 04 06:19	0° Σ	
minimum elong	3055 May 21 18:20	0° Π 54'19	0°00'14	evening max el		3056 Apr 13 05:09	12° Σ 31'18	18°49'08
transit middle	3055 May 21 18:20	0° Π 54'19	0°00'14	retrograde		3056 Apr 21 10:36	16° Σ 32'15	
transit begin	3055 May 21 14:24	1° Π 00'29		evening set		3056 Apr 23 15:23	16° Σ 16'10	
transit end	3055 May 21 22:16	0° Π 48'09		inferior conj		3056 May 01 13:37	11° Σ 56'34	1°40'38
desc. node	3055 May 21 18:00	0° Π 54'51		minimum elong		3056 May 01 17:02	11° Σ 50'21	1°39'33
	3055 May 23 04:55	30° Σ		min. Earth dist.		3056 May 04 19:34	9° Σ 35'46	0.57188 AU
min. Earth dist.	3055 May 24 03:16	29° Σ 25'25	0.55640 AU	desc. node		3056 May 07 15:03	7° Σ 48'37	
morning rise	3055 May 30 09:41	26° Σ 20'33		morning rise		3056 May 09 15:32	6° Σ 48'06	
direct	3055 Jun 03 19:43	25° Σ 37'00		direct		3056 May 15 01:59	5° Σ 36'29	

morning max el	3056 May 29 10:01	13°♄05'28	26°09'12		3057 May 16 15:51	0°♄	
	3056 Jun 11 16:46	0°♄			3057 Jun 04 20:24	0°♄	
morning set	3056 Jun 26 18:33	27°♄49'01		morning set	3057 Jun 11 03:19	12°♄32'15	
asc. node	3056 Jun 26 23:38	28°♄15'50		asc. node	3057 Jun 13 20:39	18°♄19'00	
	3056 Jun 27 19:14	0°♄					
superior conj	3056 Jul 03 17:59	12°♄58'29	1°05'54	superior conj	3057 Jun 18 05:45	27°♄53'13	0°44'43
minimum elong	3056 Jul 03 15:41	12°♄45'50	1°05'31	minimum elong	3057 Jun 18 03:56	27°♄43'11	0°44'21
max. Earth dist.	3056 Jul 04 07:50	14°♄14'36	1.32297 AU	max. Earth dist.	3057 Jun 17 19:51	26°♄58'41	1.32095 AU
evening rise	3056 Jul 10 17:13	28°♄00'51			3057 Jun 19 04:45	0°♄	
	3056 Jul 11 16:12	0°♄		evening rise	3057 Jun 25 02:01	12°♄47'05	
	3056 Jul 28 12:45	0°♄			3057 Jul 03 19:14	0°♄	
desc. node	3056 Aug 03 14:19	8°♄21'04		desc. node	3057 Jul 21 11:20	25°♄42'17	
evening max el	3056 Aug 10 19:28	16°♄22'02	27°04'46	evening max el	3057 Jul 23 18:36	28°♄01'56	26°10'29
retrograde	3056 Aug 24 16:29	23°♄34'47			3057 Jul 25 23:34	0°♄	
evening set	3056 Aug 31 18:03	21°♄21'06		retrograde	3057 Aug 06 18:06	5°♄11'55	
min. Earth dist.	3056 Sep 04 09:44	18°♄39'12	0.61213 AU	evening set	3057 Aug 13 04:34	3°♄30'52	
inferior conj	3056 Sep 07 13:13	15°♄55'28	-4°19'41	min. Earth dist.	3057 Aug 17 07:20	0°♄55'21	0.59144 AU
minimum elong	3056 Sep 07 18:44	15°♄43'27	4°18'29		3057 Aug 18 13:11	30°♄	
morning rise	3056 Sep 14 21:09	11°♄03'00		inferior conj	3057 Aug 20 14:15	28°♄26'30	-4°55'38
direct	3056 Sep 17 06:28	10°♄39'46		minimum elong	3057 Aug 20 17:39	28°♄20'02	4°55'17
asc. node	3056 Sep 22 22:51	12°♄56'47		morning rise	3057 Aug 28 08:56	23°♄57'07	
morning max el	3056 Sep 24 08:52	14°♄12'09	17°58'59	direct	3057 Aug 30 19:35	23°♄36'44	
	3056 Oct 05 03:52	0°♄		morning max el	3057 Sep 07 17:38	27°♄25'12	18°27'06
morning set	3056 Oct 10 04:25	9°♄08'20		asc. node	3057 Sep 09 19:54	29°♄39'49	
					3057 Sep 10 02:38	0°♄	
superior conj	3056 Oct 20 09:24	27°♄36'37	1°06'40	morning set	3057 Sep 23 19:16	23°♄02'04	
minimum elong	3056 Oct 20 13:45	27°♄55'42	1°06'09		3057 Sep 27 10:13	0°♄	
	3056 Oct 21 18:15	0°♄		superior conj	3057 Oct 02 19:25	10°♄09'21	1°29'24
max. Earth dist.	3056 Oct 27 23:18	10°♄32'02	1.42262 AU	minimum elong	3057 Oct 02 22:46	10°♄24'55	1°29'06
desc. node	3056 Oct 30 13:40	14°♄47'58		max. Earth dist.	3057 Oct 10 06:14	23°♄29'51	1.40299 AU
evening rise	3056 Nov 03 00:51	20°♄22'06			3057 Oct 14 02:05	0°♄	
	3056 Nov 09 05:21	0°♄		evening rise	3057 Oct 14 14:54	0°♄53'20	
	3056 Nov 30 11:38	0°♄		desc. node	3057 Oct 17 10:40	5°♄31'14	
evening max el	3056 Dec 05 17:16	5°♄56'20	22°17'49		3057 Nov 02 15:13	0°♄	
retrograde	3056 Dec 15 06:53	11°♄37'45		evening max el	3057 Nov 18 07:39	19°♄31'43	23°37'38
evening set	3056 Dec 19 19:49	9°♄47'54		retrograde	3057 Nov 29 00:11	25°♄50'35	
asc. node	3056 Dec 19 22:04	9°♄43'15		evening set	3057 Dec 04 02:00	23°♄44'11	
inferior conj	3056 Dec 25 04:18	3°♄27'28	1°43'00	asc. node	3057 Dec 06 19:07	20°♄53'19	
minimum elong	3056 Dec 25 02:12	3°♄34'44	1°42'13	inferior conj	3057 Dec 09 11:45	17°♄19'45	0°54'36
min. Earth dist.	3056 Dec 25 02:30	3°♄33'42	0.67913 AU	minimum elong	3057 Dec 09 10:30	17°♄24'00	0°54'06
	3056 Dec 27 18:30	30°♄		min. Earth dist.	3057 Dec 08 23:11	18°♄02'39	0.67841 AU
morning rise	3056 Dec 30 08:28	27°♄17'00		morning rise	3057 Dec 14 18:59	11°♄13'24	
direct	3057 Jan 04 01:17	25°♄19'21		direct	3057 Dec 18 21:35	9°♄38'36	
	3057 Jan 12 14:16	0°♄		morning max el	3057 Dec 27 05:09	14°♄27'13	20°56'11
morning max el	3057 Jan 13 11:54	0°♄52'56	22°17'23		3058 Jan 08 11:37	0°♄	
desc. node	3057 Jan 26 12:56	17°♄09'56		desc. node	3058 Jan 13 09:57	7°♄08'42	
	3057 Feb 04 08:38	0°♄		morning set	3058 Jan 26 04:51	26°♄34'43	
morning set	3057 Feb 15 21:45	18°♄02'00			3058 Jan 28 09:07	0°♄	
max. Earth dist.	3057 Feb 21 05:43	26°♄51'13	1.40818 AU	max. Earth dist.	3058 Feb 03 09:13	9°♄37'10	1.42758 AU
	3057 Feb 23 02:10	0°♄					
superior conj	3057 Mar 01 00:33	10°♄22'46	-2°00'36	superior conj	3058 Feb 10 08:44	21°♄12'35	-2°06'20
minimum elong	3057 Mar 01 03:51	10°♄37'34	2°00'26	minimum elong	3058 Feb 10 08:07	21°♄09'57	2°06'20
evening rise	3057 Mar 11 06:23	29°♄15'21			3058 Feb 15 11:21	0°♄	
	3057 Mar 11 15:55	0°♄		evening rise	3058 Feb 22 02:08	11°♄42'58	
asc. node	3057 Mar 17 21:22	11°♄24'28		asc. node	3058 Mar 04 18:24	0°♄07'46	
evening max el	3057 Mar 27 11:42	25°♄10'23	18°18'11		3058 Mar 04 16:25	0°♄	
retrograde	3057 Apr 03 15:51	28°♄44'48		evening max el	3058 Mar 10 22:52	8°♄12'49	18°07'07
evening set	3057 Apr 06 02:52	28°♄20'34		retrograde	3058 Mar 17 13:14	11°♄36'26	
inferior conj	3057 Apr 13 06:25	23°♄40'27	2°49'08	evening set	3058 Mar 20 06:03	11°♄02'13	
minimum elong	3057 Apr 13 10:01	23°♄32'46	2°48'19	inferior conj	3058 Mar 26 18:30	6°♄01'41	3°26'39
min. Earth dist.	3057 Apr 16 16:41	20°♄46'26	0.59220 AU	minimum elong	3058 Mar 26 20:33	5°♄56'38	3°26'24
morning rise	3057 Apr 20 14:30	18°♄03'19		min. Earth dist.	3058 Mar 29 21:16	2°♄59'06	0.61383 AU
desc. node	3057 Apr 24 12:05	16°♄31'38		morning rise	3058 Apr 02 09:17	0°♄06'13	
direct	3057 Apr 26 21:36	16°♄16'06			3058 Apr 02 12:58	30°♄	
morning max el	3057 May 11 06:29	24°♄02'58	27°16'24	direct	3058 Apr 09 04:31	27°♄45'29	
				desc. node	3058 Apr 11 09:07	27°♄59'10	

	3058 Apr 16 07:40	0°♿		min. Earth dist.	3059 Mar 12 10:48	16°♿03'12	0.63407 AU
morning max el	3058 Apr 23 09:21	5°♿41'53	27°48'33	morning rise	3059 Mar 15 22:26	12°♿45'48	
	3058 May 11 15:10	0°♿		direct	3059 Mar 22 20:23	10°♿02'30	
morning set	3058 May 26 07:53	27°♿00'57		desc. node	3059 Mar 29 06:11	12°♿00'05	
	3058 May 27 18:29	0°♿		morning max el	3059 Apr 05 16:52	17°♿59'42	27°43'14
asc. node	3058 May 31 17:41	8°♿27'13			3059 Apr 15 18:30	0°♿	
max. Earth dist.	3058 Jun 01 06:15	9°♿35'22	1.32291 AU		3059 May 04 11:12	0°♿	
				morning set	3059 May 10 05:51	11°♿06'26	
superior conj	3058 Jun 02 16:23	12°♿41'30	0°20'23	max. Earth dist.	3059 May 15 10:57	21°♿50'31	1.32908 AU
minimum elong	3058 Jun 02 15:27	12°♿36'26	0°20'10				
evening rise	3058 Jun 09 13:18	27°♿38'07		superior conj	3059 May 18 00:01	27°♿16'20	-0°06'27
	3058 Jun 10 16:10	0°♿		minimum elong	3059 May 18 00:20	27°♿18'02	0°06'24
	3058 Jun 27 18:35	0°♿		behind sun begin	3059 May 17 19:27	26°♿51'47	
evening max el	3058 Jul 05 10:46	8°♿56'57	24°49'15	behind sun end	3059 May 18 05:13	27°♿44'18	
desc. node	3058 Jul 08 08:22	11°♿29'10		asc. node	3059 May 18 14:43	28°♿35'31	
retrograde	3058 Jul 19 09:31	16°♿00'50			3059 May 19 06:22	0°♿	
evening set	3058 Jul 24 15:12	14°♿58'35		evening rise	3059 May 25 01:06	12°♿26'30	
min. Earth dist.	3058 Jul 29 22:08	12°♿10'32	0.57184 AU		3059 Jun 02 23:26	0°♿	
inferior conj	3058 Aug 01 19:49	10°♿16'09	-5°03'33	evening max el	3059 Jun 17 00:12	19°♿25'35	23°13'54
minimum elong	3058 Aug 01 18:20	10°♿18'36	5°03'30	desc. node	3059 Jun 25 05:25	25°♿06'33	
morning rise	3058 Aug 10 00:05	6°♿08'34		retrograde	3059 Jun 30 12:14	26°♿10'05	
direct	3058 Aug 12 14:32	5°♿49'24		evening set	3059 Jul 04 05:38	25°♿39'43	
morning max el	3058 Aug 21 17:51	10°♿05'56	19°16'17	min. Earth dist.	3059 Jul 11 09:48	22°♿24'30	0.55668 AU
asc. node	3058 Aug 27 16:56	17°♿22'20		inferior conj	3059 Jul 13 05:36	21°♿20'20	-4°28'33
	3058 Sep 04 00:45	0°♿		minimum elong	3059 Jul 12 22:41	21°♿30'29	4°27'18
morning set	3058 Sep 07 19:04	7°♿21'47		morning rise	3059 Jul 21 18:11	17°♿26'59	
				direct	3059 Jul 24 14:35	17°♿07'23	
superior conj	3058 Sep 15 22:56	23°♿33'59	1°41'36	morning max el	3059 Aug 04 06:53	22°♿04'33	20°26'55
minimum elong	3058 Sep 16 00:33	23°♿41'51	1°41'31		3059 Aug 10 21:38	0°♿	
	3058 Sep 19 07:32	0°♿		asc. node	3059 Aug 14 13:59	5°♿50'16	
max. Earth dist.	3058 Sep 22 10:03	5°♿45'33	1.38227 AU	morning set	3059 Aug 23 00:52	21°♿59'02	
evening rise	3058 Sep 26 04:44	12°♿30'39			3059 Aug 26 22:09	0°♿	
desc. node	3058 Oct 04 07:41	26°♿07'00					
	3058 Oct 06 18:37	0°♿		superior conj	3059 Aug 30 15:01	7°♿35'48	1°44'59
	3058 Oct 28 19:04	0°♿		minimum elong	3059 Aug 30 14:57	7°♿35'27	1°44'58
evening max el	3058 Oct 31 20:05	3°♿11'08	24°55'32	max. Earth dist.	3059 Sep 04 16:36	17°♿38'44	1.36288 AU
retrograde	3058 Nov 12 13:31	9°♿59'45		evening rise	3059 Sep 08 15:36	25°♿07'08	
evening set	3058 Nov 18 05:09	7°♿37'51			3059 Sep 11 08:14	0°♿	
min. Earth dist.	3058 Nov 22 18:16	2°♿30'13	0.67428 AU	desc. node	3059 Sep 21 04:44	16°♿30'14	
inferior conj	3058 Nov 23 17:28	1°♿13'45	0°01'07		3059 Sep 30 07:40	0°♿	
minimum elong	3058 Nov 23 17:26	1°♿13'51	0°01'07	evening max el	3059 Oct 14 08:24	16°♿52'37	26°04'10
transit middle	3058 Nov 23 17:26	1°♿13'51	0°01'07	retrograde	3059 Oct 26 21:57	24°♿00'06	
transit begin	3058 Nov 23 14:41	1°♿22'57		evening set	3059 Nov 02 03:29	21°♿25'32	
transit end	3058 Nov 23 20:11	1°♿04'46		min. Earth dist.	3059 Nov 06 09:19	16°♿53'21	0.66674 AU
asc. node	3058 Nov 23 16:10	1°♿18'01		inferior conj	3059 Nov 07 19:36	15°♿06'36	-0°56'13
	3058 Nov 24 16:01	30°♿		minimum elong	3059 Nov 07 21:05	15°♿01'57	0°55'35
morning rise	3058 Nov 29 05:52	25°♿13'49		asc. node	3059 Nov 10 13:13	11°♿52'51	
direct	3058 Dec 02 19:53	23°♿59'48		morning rise	3059 Nov 13 15:05	9°♿15'44	
morning max el	3058 Dec 10 06:10	28°♿12'29	19°47'07	direct	3059 Nov 16 18:29	8°♿19'15	
	3058 Dec 11 22:25	0°♿		morning max el	3059 Nov 23 14:30	12°♿06'34	18°53'06
greatest brilliancy	3058 Dec 23 14:31	15°♿50'20	-0.7m		3059 Dec 06 16:23	0°♿	
desc. node	3058 Dec 31 06:59	27°♿26'19		morning set	3059 Dec 15 11:07	13°♿42'59	
	3059 Jan 01 23:07	0°♿		desc. node	3059 Dec 18 04:01	17°♿57'38	
morning set	3059 Jan 05 00:48	4°♿43'34			3059 Dec 25 20:19	0°♿	
max. Earth dist.	3059 Jan 16 20:04	23°♿11'49	1.44234 AU	max. Earth dist.	3059 Dec 30 12:50	7°♿21'29	1.45066 AU
	3059 Jan 21 02:00	0°♿					
				superior conj	3059 Dec 31 23:07	9°♿36'22	-1°24'52
superior conj	3059 Jan 21 14:53	0°♿52'02	-1°55'15	minimum elong	3059 Dec 31 14:05	9°♿00'46	1°23'54
minimum elong	3059 Jan 21 08:30	0°♿26'13	1°54'52		3060 Jan 13 18:38	0°♿	
evening rise	3059 Feb 04 02:57	23°♿18'13		evening rise	3060 Jan 16 05:17	3°♿56'53	
	3059 Feb 08 01:25	0°♿			3060 Feb 01 20:46	0°♿	
asc. node	3059 Feb 19 15:27	18°♿12'58		evening max el	3060 Feb 05 23:09	4°♿56'10	18°41'27
evening max el	3059 Feb 22 11:35	21°♿30'06	18°15'11	asc. node	3060 Feb 06 12:30	5°♿29'08	
retrograde	3059 Feb 28 22:11	24°♿56'39		retrograde	3060 Feb 12 14:38	8°♿37'44	
evening set	3059 Mar 03 20:35	24°♿11'14		evening set	3060 Feb 15 19:02	7°♿40'11	
inferior conj	3059 Mar 09 21:47	18°♿51'16	3°39'40	inferior conj	3060 Feb 21 12:22	2°♿02'15	3°34'26
minimum elong	3059 Mar 09 21:59	18°♿50'43	3°39'41	minimum elong	3060 Feb 21 11:05	2°♿06'09	3°34'19

	3060 Feb 23 04:38	30° 		retrograde	3061 Jan 26 11:13	22°  32'40	
min. Earth dist.	3060 Feb 23 09:43	29°  44'52	0.65111 AU	evening set	3061 Jan 29 22:35	21°  22'01	
morning rise	3060 Feb 27 02:41	25°  51'40		inferior conj	3061 Feb 04 10:50	15°  28'16	3°15'31
direct	3060 Mar 04 19:21	23°  00'20		minimum elong	3061 Feb 04 08:38	15°  35'24	3°15'06
desc. node	3060 Mar 15 03:13	28°  00'54		min. Earth dist.	3061 Feb 05 17:07	13°  49'51	0.66411 AU
	3060 Mar 17 07:12	0° 		morning rise	3061 Feb 09 18:27	9°  15'15	
morning max el	3060 Mar 18 02:30	0°  47'44	27°04'04	direct	3061 Feb 16 00:21	6°  29'04	
	3060 Apr 08 19:27	0° 		morning max el	3061 Feb 28 12:05	13°  54'08	25°58'34
morning set	3060 Apr 22 18:15	24°  39'44		desc. node	3061 Mar 02 00:15	15°  28'21	
	3060 Apr 25 11:35	0° 			3061 Mar 13 14:24	0° 	
max. Earth dist.	3060 Apr 27 06:23	3°  35'13	1.33978 AU		3061 Apr 01 13:39	0° 	
				morning set	3061 Apr 05 17:05	7°  28'54	
superior conj	3060 May 01 02:39	11°  31'34	-0°34'45	max. Earth dist.	3061 Apr 09 14:28	14°  49'49	1.35503 AU
minimum elong	3060 May 01 04:26	11°  40'58	0°34'23				
asc. node	3060 May 04 11:47	18°  40'04		superior conj	3061 Apr 14 21:45	25°  19'34	-1°03'13
evening rise	3060 May 08 11:37	27°  06'18		minimum elong	3061 Apr 15 01:02	25°  36'11	1°02'37
	3060 May 09 21:05	0° 			3061 Apr 17 04:44	0° 	
	3060 May 28 18:44	0° 		asc. node	3061 Apr 21 08:50	8°  36'23	
evening max el	3060 May 28 18:19	29°  15'00	21°39'44	evening rise	3061 Apr 22 18:46	11°  30'46	
retrograde	3060 Jun 10 03:36	6°  04'42			3061 May 02 13:53	0° 	
desc. node	3060 Jun 11 02:26	6°  02'37		evening max el	3061 May 10 23:01	11°  11'14	20°18'34
evening set	3060 Jun 12 15:59	5°  05'24		retrograde	3061 May 21 17:12	16°  11'20	
inferior conj	3060 Jun 22 01:27	1°  04'53	-3°04'30	evening set	3061 May 23 17:22	16°  11'10	
minimum elong	3060 Jun 21 17:37	1°  05'49	3°02'05	desc. node	3061 May 28 23:26	14°  11'42	
min. Earth dist.	3060 Jun 21 20:58	1°  05'59	0.54914 AU	inferior conj	3061 Jun 01 20:21	12°  11'08'49	-1°08'21
	3060 Jun 25 09:57	30°  11'11		minimum elong	3061 Jun 01 17:08	12°  11'13'32	1°07'09
morning rise	3060 Jun 30 20:20	27°  11'54'48		min. Earth dist.	3061 Jun 03 09:23	11°  11'14'30	0.55100 AU
direct	3060 Jul 04 01:56	27°  11'31'56		morning rise	3061 Jun 10 15:39	7°  11'54'01	
	3060 Jul 12 01:52	0° 		direct	3061 Jun 14 12:50	7°  11'21'27	
morning max el	3060 Jul 16 08:20	3°  01'18'19	21°56'39	morning max el	3061 Jun 28 01:22	13°  11'56'58	23°38'10
asc. node	3060 Jul 31 11:01	24°  05'24'47			3061 Jul 10 11:00	0° 	
	3060 Aug 03 02:32	0° 		asc. node	3061 Jul 18 08:04	14°  05'21'15	
morning set	3060 Aug 06 10:25	6°  01'47'44		morning set	3061 Jul 21 21:54	21°  05'42'36	
					3061 Jul 25 18:49	0° 	
superior conj	3060 Aug 13 15:50	22°  01'03'40	1°41'06	superior conj	3061 Jul 28 22:29	6°  01'49'01	1°31'15
minimum elong	3060 Aug 13 14:29	21°  01'56'36	1°41'01	minimum elong	3061 Jul 28 20:22	6°  01'37'38	1°31'02
	3060 Aug 17 11:55	0° 		max. Earth dist.	3061 Jul 31 06:08	11°  01'46'44	1.33414 AU
max. Earth dist.	3060 Aug 17 06:49	29°  01'34'05	1.34658 AU	evening rise	3061 Aug 05 10:48	22°  01'30'59	
evening rise	3060 Aug 21 19:02	8°  01'31'00			3061 Aug 09 06:52	0° 	
	3060 Sep 02 21:28	0° 		desc. node	3061 Aug 24 22:46	26°  01'11'56	
desc. node	3060 Sep 07 01:46	6°  01'34'33			3061 Aug 27 15:22	0° 	
	3060 Sep 25 09:13	0° 		evening max el	3061 Sep 08 08:37	13°  01'47'46	27°23'24
evening max el	3060 Sep 25 20:57	0°  01'28'26	26°55'50	retrograde	3061 Sep 21 21:50	21°  01'45'40	
retrograde	3060 Oct 09 00:50	7°  01'44'34		evening set	3061 Sep 29 00:32	18°  01'25'00	
evening set	3060 Oct 15 18:50	5°  01'02'41		min. Earth dist.	3061 Oct 02 17:39	15°  01'43'47	0.64123 AU
min. Earth dist.	3060 Oct 19 17:49	1°  01'06'49	0.65574 AU	inferior conj	3061 Oct 05 04:23	12°  01'29'53	-2°55'31
	3060 Oct 20 17:06	30°  01'10'48		minimum elong	3061 Oct 05 09:08	12°  01'17'24	2°53'53
inferior conj	3060 Oct 21 16:02	28°  01'53'31	-1°55'53	morning rise	3061 Oct 11 18:55	7°  01'40'47	
minimum elong	3060 Oct 21 19:12	28°  01'44'20	1°54'37	direct	3061 Oct 14 07:56	6°  01'34'15	
asc. node	3060 Oct 27 10:15	23°  01'28'34		asc. node	3061 Oct 14 07:17	6°  01'34'15	
morning rise	3060 Oct 27 20:21	23°  01'14'55		morning max el	3061 Oct 20 20:25	9°  01'59'53	17°54'44
direct	3060 Oct 30 15:22	22°  01'32'13			3061 Nov 03 08:54	0° 	
morning max el	3060 Nov 06 04:08	26°  01'04'12	18°15'23	morning set	3061 Nov 06 20:13	5°  01'55'33	
	3060 Nov 09 13:03	0° 					
morning set	3060 Nov 25 01:45	24°  01'08'35		superior conj	3061 Nov 19 19:04	27°  01'33'58	0°07'43
	3060 Nov 28 16:17	0° 		minimum elong	3061 Nov 19 19:56	27°  01'37'31	0°07'35
desc. node	3060 Dec 04 01:03	8°  01'37'44		behind sun begin	3061 Nov 19 10:58	27°  01'01'02	
				behind sun end	3061 Nov 20 04:55	28°  01'13'55	
superior conj	3060 Dec 10 01:31	18°  01'10'48	-0°40'01	desc. node	3061 Nov 20 22:05	29°  01'23'22	
minimum elong	3060 Dec 09 20:24	17°  01'50'39	0°39'21		3061 Nov 21 07:09	0° 	
max. Earth dist.	3060 Dec 12 08:20	21°  01'46'32	1.45162 AU	max. Earth dist.	3061 Nov 25 02:55	6°  01'47'11	1.44522 AU
	3060 Dec 17 14:18	0° 		evening rise	3061 Dec 05 20:30	22°  01'52'35	
evening rise	3060 Dec 26 08:50	13°  01'30'41'47			3061 Dec 10 12:13	0° 	
	3061 Jan 05 20:42	0° 			3061 Dec 31 15:40	0° 	
greatest brilliancy	3061 Jan 07 00:23	1°  01'45'46	-0.7m	evening max el	3062 Jan 02 10:23	1°  01'56'25	20°23'08
evening max el	3061 Jan 19 07:16	18°  01'25'34	19°24'45	retrograde	3062 Jan 10 09:18	6°  01'37'15	
asc. node	3061 Jan 23 09:33	21°  01'41'59					

asc. node	3062 Jan 10 06:34	6° \approx 37'11	retrograde	3062 Dec 25 06:44	20° \approx 47'38
evening set	3062 Jan 14 05:08	5° \approx 12'24	asc. node	3062 Dec 28 03:35	20° \approx 02'36
	3062 Jan 18 22:27	30° \approx 3	evening set	3062 Dec 29 12:49	19° \approx 07'22
inferior conj	3062 Jan 19 14:31	29° \approx 05'38 2°46'03	inferior conj	3063 Jan 03 21:11	12° \approx 50'55 2°08'07
minimum elong	3062 Jan 19 11:59	29° \approx 14'17 2°45'21	minimum elong	3063 Jan 03 18:48	12° \approx 59'12 2°07'18
min. Earth dist.	3062 Jan 20 07:17	28° \approx 08'40 0.67297 AU	min. Earth dist.	3063 Jan 04 01:55	12° \approx 34'30 0.67789 AU
morning rise	3062 Jan 24 18:38	22° \approx 52'03	morning rise	3063 Jan 09 00:35	6° \approx 38'35
direct	3062 Jan 30 10:47	20° \approx 20'39	direct	3063 Jan 14 01:54	4° \approx 27'43
morning max el	3062 Feb 10 20:46	27° \approx 09'43 24°36'20	morning max el	3063 Jan 24 05:57	10° \approx 30'09 23°07'37
	3062 Feb 13 12:32	0° \approx	desc. node	3063 Feb 03 18:20	23° \approx 11'33
desc. node	3062 Feb 16 21:18	3° \approx 57'52		3063 Feb 08 16:02	0° \approx
	3062 Mar 07 06:02	0° \approx	morning set	3063 Feb 28 00:02	29° \approx 55'35
morning set	3062 Mar 18 21:05	19° \approx 19'38		3063 Feb 28 01:05	0° \approx
max. Earth dist.	3062 Mar 22 12:42	25° \approx 51'55 1.37425 AU	max. Earth dist.	3063 Mar 04 07:28	7° \approx 15'10 1.39574 AU
	3062 Mar 24 18:30	0° \approx			
superior conj	3062 Mar 29 06:11	8° \approx 32'10 -1°29'50	superior conj	3063 Mar 11 23:53	20° \approx 59'17 -1°51'41
minimum elong	3062 Mar 29 10:32	8° \approx 53'20 1°29'14	minimum elong	3063 Mar 12 04:10	21° \approx 19'05 1°51'20
evening rise	3062 Apr 06 20:13	25° \approx 33'08		3063 Mar 16 19:10	0° \approx
asc. node	3062 Apr 08 05:52	28° \approx 19'55	evening rise	3063 Mar 21 13:04	9° \approx 05'47
	3062 Apr 09 02:15	0° \approx	asc. node	3063 Mar 26 02:54	17° \approx 45'34
evening max el	3062 Apr 23 15:40	22° \approx 48'18 19°16'00		3063 Apr 02 10:56	0° \approx
retrograde	3062 May 02 17:23	27° \approx 12'29	evening max el	3063 Apr 06 18:13	5° \approx 11'04 18°33'35
evening set	3062 May 04 18:35	26° \approx 59'57	retrograde	3063 Apr 14 11:31	8° \approx 58'35
inferior conj	3062 May 13 04:20	22° \approx 50'46 0°46'07	evening set	3063 Apr 16 18:53	8° \approx 39'24
minimum elong	3062 May 13 06:12	22° \approx 47'39 0°45'27	inferior conj	3063 Apr 24 08:54	4° \approx 11'40 2°13'42
desc. node	3062 May 15 20:28	21° \approx 04'13	minimum elong	3063 Apr 24 12:43	4° \approx 04'13 2°12'38
min. Earth dist.	3062 May 16 00:17	20° \approx 58'04 0.56210 AU	min. Earth dist.	3063 Apr 27 18:43	1° \approx 33'36 0.58011 AU
morning rise	3062 May 21 14:46	18° \approx 01'43		3063 Apr 30 01:08	30° \approx 1
direct	3062 May 26 10:54	17° \approx 07'46	morning rise	3063 May 02 03:24	28° \approx 49'40
morning max el	3062 Jun 09 15:39	24° \approx 22'13 25°18'23	desc. node	3063 May 02 17:30	28° \approx 33'20
	3062 Jun 14 19:27	0° \approx	direct	3063 May 07 23:34	27° \approx 22'59
	3062 Jul 03 04:44	0° \approx		3063 May 16 02:32	0° \approx
asc. node	3062 Jul 05 05:06	4° \approx 07'46	morning max el	3063 May 22 08:44	5° \approx 01'32 26°41'30
morning set	3062 Jul 06 09:37	6° \approx 37'19		3063 Jun 09 15:51	0° \approx
			morning set	3063 Jun 20 19:57	21° \approx 26'34
superior conj	3062 Jul 13 08:37	21° \approx 43'18 1°16'25	asc. node	3063 Jun 22 02:10	24° \approx 06'39
minimum elong	3062 Jul 13 06:15	21° \approx 30'20 1°16'04		3063 Jun 24 19:31	0° \approx
max. Earth dist.	3062 Jul 14 12:48	24° \approx 17'16 1.32584 AU	superior conj	3063 Jun 27 20:19	6° \approx 40'02 0°57'22
	3062 Jul 17 04:12	0° \approx	minimum elong	3063 Jun 27 18:10	6° \approx 28'12 0°56'58
evening rise	3062 Jul 20 11:18	6° \approx 55'51	max. Earth dist.	3063 Jun 27 23:50	6° \approx 59'27 1.32161 AU
	3062 Aug 01 18:58	0° \approx	evening rise	3063 Jul 04 17:47	21° \approx 37'00
desc. node	3062 Aug 11 19:46	15° \approx 10'16		3063 Jul 08 20:24	0° \approx
evening max el	3062 Aug 21 17:18	26° \approx 37'07 27°21'03		3063 Jul 27 02:34	0° \approx
	3062 Aug 25 17:22	0° \approx	desc. node	3063 Jul 29 16:46	3° \approx 13'20
retrograde	3062 Sep 04 12:28	3° \approx 52'55	evening max el	3063 Aug 03 20:44	8° \approx 45'25 26°45'32
evening set	3062 Sep 11 17:04	1° \approx 25'27	retrograde	3063 Aug 17 19:26	15° \approx 57'19
	3062 Sep 13 14:46	30° \approx 8	evening set	3063 Aug 24 15:57	13° \approx 56'25
min. Earth dist.	3062 Sep 15 07:22	28° \approx 32'28 0.62346 AU	min. Earth dist.	3063 Aug 28 10:43	11° \approx 19'10 0.60337 AU
inferior conj	3062 Sep 18 05:44	25° \approx 47'57 -3°51'29	inferior conj	3063 Aug 31 16:42	8° \approx 39'22 -4°37'30
minimum elong	3062 Sep 18 11:23	25° \approx 34'43 3°49'57	minimum elong	3063 Aug 31 21:39	8° \approx 29'10 4°36'38
morning rise	3062 Sep 25 07:18	20° \approx 43'35	morning rise	3063 Sep 08 05:19	3° \approx 56'24
direct	3062 Sep 27 17:00	20° \approx 17'54	direct	3063 Sep 10 14:42	3° \approx 34'44
asc. node	3062 Oct 01 04:19	21° \approx 13'06	morning max el	3063 Sep 18 00:33	7° \approx 13'06 18°08'21
morning max el	3062 Oct 04 12:17	23° \approx 45'35 17°51'58	asc. node	3063 Sep 18 01:22	7° \approx 15'06
	3062 Oct 09 11:58	0° \approx		3063 Oct 02 14:48	0° \approx
morning set	3062 Oct 20 12:25	18° \approx 44'34	morning set	3063 Oct 03 20:25	2° \approx 18'43
	3062 Oct 26 20:20	0° \approx			
superior conj	3062 Oct 31 14:38	8° \approx 13'57 0°48'19	superior conj	3063 Oct 13 11:58	20° \approx 09'08 1°17'42
minimum elong	3062 Oct 31 18:40	8° \approx 31'04 0°47'47	minimum elong	3063 Oct 13 16:05	20° \approx 27'33 1°17'15
max. Earth dist.	3062 Nov 07 17:32	20° \approx 04'24 1.43232 AU		3063 Oct 19 02:39	0° \approx
desc. node	3062 Nov 07 19:05	20° \approx 10'43	max. Earth dist.	3063 Oct 21 03:11	3° \approx 26'13 1.41459 AU
	3062 Nov 13 22:46	0° \approx	desc. node	3063 Oct 25 16:05	10° \approx 56'34
evening rise	3062 Nov 15 07:00	2° \approx 06'00	evening rise	3063 Oct 26 08:18	12° \approx 02'17
	3062 Dec 04 01:10	0° \approx		3063 Nov 06 22:38	0° \approx
evening max el	3062 Dec 16 07:54	15° \approx 28'16 21°33'39	evening max el	3063 Nov 29 00:34	29° \approx 02'24 22°51'44
				3063 Nov 30 00:06	0° \approx

retrograde	3063 Dec 09 01:49	5°♄00'18		evening set	3064 Nov 27 01:05	16°♄59'23	
evening set	3063 Dec 13 19:59	3°♄03'40		asc. node	3064 Nov 30 21:40	12°♄42'17	
asc. node	3063 Dec 15 00:38	1°♄56'59		inferior conj	3064 Dec 02 11:47	10°♄34'51	0°32'29
	3063 Dec 16 17:27	30°♄17'27		minimum elong	3064 Dec 02 11:01	10°♄37'27	0°32'10
inferior conj	3063 Dec 19 04:52	26°♄41'11	1°23'10	min. Earth dist.	3064 Dec 01 18:46	11°♄32'14	0.67710 AU
minimum elong	3063 Dec 19 03:04	26°♄47'21	1°22'29	morning rise	3064 Dec 07 20:59	4°♄31'02	
min. Earth dist.	3063 Dec 18 22:31	27°♄03'04	0.67921 AU	direct	3064 Dec 11 18:07	3°♄05'15	
morning rise	3063 Dec 24 10:02	20°♄32'03		morning max el	3064 Dec 19 15:35	7°♄36'47	20°25'08
direct	3063 Dec 28 20:44	18°♄44'00			3065 Jan 05 10:58	0°♄	
morning max el	3064 Jan 06 19:09	23°♄57'37	21°41'35	desc. node	3065 Jan 07 12:23	3°♄04'19	
	3064 Jan 12 02:17	0°♄		morning set	3065 Jan 16 21:13	17°♄21'17	
desc. node	3064 Jan 21 15:21	12°♄56'26			3065 Jan 24 22:15	0°♄	
	3064 Feb 02 02:04	0°♄		max. Earth dist.	3065 Jan 26 13:59	2°♄39'20	1.43461 AU
morning set	3064 Feb 07 21:47	9°♄07'27					
max. Earth dist.	3064 Feb 14 06:43	19°♄28'55	1.41683 AU	superior conj	3065 Feb 01 19:02	12°♄48'06	-2°03'58
	3064 Feb 20 11:43	0°♄		minimum elong	3065 Feb 01 16:00	12°♄35'28	2°03'52
					3065 Feb 11 21:35	0°♄	
superior conj	3064 Feb 21 21:46	2°♄28'04	-2°04'47	evening rise	3065 Feb 14 05:55	4°♄05'44	
minimum elong	3064 Feb 21 23:46	2°♄36'47	2°04'44	asc. node	3065 Feb 26 21:00	25°♄14'40	
evening rise	3064 Mar 03 17:41	21°♄59'21			3065 Mar 02 12:35	0°♄	
	3064 Mar 08 02:58	0°♄		evening max el	3065 Mar 03 15:24	1°♄11'14	18°08'13
asc. node	3064 Mar 11 23:57	6°♄46'25		retrograde	3065 Mar 10 02:55	4°♄34'26	
evening max el	3064 Mar 20 03:14	18°♄01'42	18°11'10	evening set	3065 Mar 12 22:11	3°♄55'26	
retrograde	3064 Mar 26 23:58	21°♄29'17			3065 Mar 18 00:25	30°♄17'27	
evening set	3064 Mar 29 13:40	21°♄00'51		inferior conj	3065 Mar 19 05:21	28°♄46'08	3°34'45
inferior conj	3064 Apr 05 10:19	16°♄12'06	3°08'25	minimum elong	3065 Mar 19 06:36	28°♄42'53	3°34'39
minimum elong	3064 Apr 05 13:22	16°♄05'09	3°07'52	min. Earth dist.	3065 Mar 22 02:35	25°♄47'39	0.62278 AU
min. Earth dist.	3064 Apr 08 18:34	13°♄11'27	0.60146 AU	morning rise	3065 Mar 25 13:42	22°♄45'46	
morning rise	3064 Apr 12 10:49	10°♄26'18		direct	3065 Apr 01 11:08	20°♄14'08	
desc. node	3064 Apr 18 14:33	8°♄24'21		desc. node	3065 Apr 05 11:36	21°♄00'19	
direct	3064 Apr 19 00:29	8°♄23'52		morning max el	3065 Apr 15 12:49	28°♄11'03	27°50'49
morning max el	3064 May 03 07:43	16°♄15'10	27°34'34		3065 Apr 17 06:55	0°♄	
	3064 May 14 14:11	0°♄			3065 May 08 08:49	0°♄	
	3064 Jun 01 03:30	0°♄		morning set	3065 May 19 05:14	20°♄23'53	
morning set	3064 Jun 04 03:10	6°♄04'14			3065 May 23 19:42	0°♄	
asc. node	3064 Jun 07 23:13	14°♄12'32		max. Earth dist.	3065 May 24 20:17	2°♄11'43	1.32507 AU
max. Earth dist.	3064 Jun 10 11:38	19°♄41'55	1.32134 AU	asc. node	3065 May 25 20:16	4°♄21'15	
superior conj	3064 Jun 11 07:49	21°♄32'49	0°34'46	superior conj	3065 May 26 17:24	6°♄15'53	0°09'16
minimum elong	3064 Jun 11 06:20	21°♄24'38	0°34'26	minimum elong	3065 May 26 16:58	6°♄13'30	0°09'10
	3064 Jun 15 04:12	0°♄		behind sun begin	3065 May 26 12:42	5°♄50'22	
evening rise	3064 Jun 18 03:55	6°♄26'22		behind sun end	3065 May 26 21:13	6°♄36'39	
	3064 Jun 30 12:15	0°♄		evening rise	3065 Jun 02 15:40	21°♄17'09	
evening max el	3064 Jul 15 17:00	20°♄06'09	25°38'39		3065 Jun 06 21:01	0°♄	
desc. node	3064 Jul 15 13:48	19°♄58'29			3065 Jun 26 12:24	0°♄	
retrograde	3064 Jul 29 16:45	27°♄13'28		evening max el	3065 Jun 27 07:09	0°♄46'17	24°09'24
evening set	3064 Aug 04 16:28	25°♄49'10		desc. node	3065 Jul 02 10:51	4°♄54'56	
min. Earth dist.	3064 Aug 09 05:08	23°♄10'22	0.58283 AU	retrograde	3065 Jul 11 02:32	7°♄43'48	
inferior conj	3064 Aug 12 09:47	20°♄54'16	-5°03'19	evening set	3065 Jul 15 17:19	6°♄56'30	
minimum elong	3064 Aug 12 11:25	20°♄51'21	5°03'15	min. Earth dist.	3065 Jul 21 17:47	3°♄58'39	0.56468 AU
morning rise	3064 Aug 20 08:38	16°♄34'12		inferior conj	3065 Jul 24 06:38	2°♄24'11	-4°54'41
direct	3064 Aug 22 20:45	16°♄14'23		minimum elong	3065 Jul 24 02:39	2°♄30'26	4°54'18
morning max el	3064 Aug 31 05:58	20°♄13'23	18°45'19		3065 Jul 28 09:59	30°♄17'27	
asc. node	3064 Sep 03 22:26	24°♄25'18		morning rise	3065 Aug 01 14:37	28°♄24'17	
	3064 Sep 07 16:50	0°♄		direct	3065 Aug 04 07:35	28°♄05'02	
morning set	3064 Sep 16 15:33	16°♄25'18			3065 Aug 10 16:16	0°♄	
	3064 Sep 23 15:01	0°♄		morning max el	3065 Aug 14 01:36	2°♄36'50	19°43'50
				asc. node	3065 Aug 21 19:29	12°♄28'37	
superior conj	3064 Sep 25 06:07	3°♄06'04	1°35'46		3065 Aug 31 07:34	0°♄	
minimum elong	3064 Sep 25 08:46	3°♄18'37	1°35'34	morning set	3065 Aug 31 18:14	0°♄53'43	
max. Earth dist.	3064 Oct 02 08:47	16°♄07'13	1.39422 AU				
evening rise	3064 Oct 06 08:38	23°♄02'27		superior conj	3065 Sep 08 15:32	16°♄48'24	1°44'01
	3064 Oct 10 13:02	0°♄		minimum elong	3065 Sep 08 16:24	16°♄52'42	1°43'59
desc. node	3064 Oct 11 13:06	1°♄37'36		max. Earth dist.	3065 Sep 14 13:22	28°♄12'02	1.37372 AU
	3064 Oct 30 20:08	0°♄			3065 Sep 15 12:36	0°♄	
evening max el	3064 Nov 10 14:04	12°♄40'36	24°11'29	evening rise	3065 Sep 18 07:53	5°♄06'04	
retrograde	3064 Nov 21 17:23	19°♄12'32		desc. node	3065 Sep 28 10:08	22°♄08'57	

	3065 Oct 03 12:04	0°♍		desc. node	3066 Sep 15 07:10	12°♊25'18	
evening max el	3065 Oct 24 02:13	26°♍21'19	25°26'14		3066 Sep 27 17:21	0°♍	
	3065 Oct 28 06:30	0°♊		evening max el	3066 Oct 06 14:26	10°♍00'55	26°28'31
retrograde	3065 Nov 05 04:37	3°♊19'04		retrograde	3066 Oct 19 10:55	17°♍13'56	
evening set	3065 Nov 11 02:24	0°♊51'02		evening set	3066 Oct 25 22:03	14°♍35'08	
	3065 Nov 12 00:44	30°♋♍		min. Earth dist.	3066 Oct 30 00:47	10°♍18'30	0.66252 AU
min. Earth dist.	3065 Nov 15 12:16	25°♍58'38	0.67154 AU	inferior conj	3066 Oct 31 16:08	8°♍19'34	-1°21'21
inferior conj	3065 Nov 16 16:11	24°♍28'40	-0°22'47	minimum elong	3066 Oct 31 18:20	8°♍12'54	1°20'26
minimum elong	3065 Nov 16 16:46	24°♍26'47	0°22'32	asc. node	3066 Nov 04 15:44	3°♍59'34	
asc. node	3065 Nov 17 18:42	23°♍04'08		morning rise	3066 Nov 06 15:14	2°♍33'42	
morning rise	3065 Nov 22 07:25	18°♍32'33		direct	3066 Nov 09 14:40	1°♍43'43	
direct	3065 Nov 25 16:40	17°♍26'30		morning max el	3066 Nov 16 06:54	5°♍23'34	18°34'58
morning max el	3065 Dec 02 19:58	21°♍26'47	19°22'15		3066 Dec 03 10:05	0°♊	
	3065 Dec 09 18:38	0°♊		morning set	3066 Dec 06 18:00	5°♊18'10	
greatest brilliancy	3065 Dec 16 07:54	9°♊34'37	-0.7m	desc. node	3066 Dec 12 06:26	14°♊03'55	
desc. node	3065 Dec 25 09:25	23°♊28'23			3066 Dec 22 09:21	0°♊	
morning set	3065 Dec 26 20:27	25°♊44'00					
	3065 Dec 29 14:26	0°♊		superior conj	3066 Dec 22 17:41	0°♊32'41	-1°06'59
max. Earth dist.	3066 Jan 09 03:56	16°♊31'59	1.44676 AU	minimum elong	3066 Dec 22 09:37	0°♊01'03	1°06'01
				max. Earth dist.	3066 Dec 22 21:48	0°♊48'50	1.45197 AU
superior conj	3066 Jan 12 14:33	21°♊59'43	-1°44'38	evening rise	3067 Jan 07 13:44	25°♊31'34	
minimum elong	3066 Jan 12 06:18	21°♊26'49	1°43'57		3067 Jan 10 09:09	0°♋	
	3066 Jan 17 14:09	0°♋		greatest brilliancy	3067 Jan 16 06:56	9°♋22'50	-0.8m
evening rise	3066 Jan 26 21:27	15°♋17'14		evening max el	3067 Jan 29 14:04	27°♋59'47	18°57'54
	3066 Feb 04 18:37	0°♋		asc. node	3067 Jan 31 15:02	29°♋51'11	
asc. node	3066 Feb 13 18:02	13°♋00'20			3067 Jan 31 19:36	0°♋	
evening max el	3066 Feb 15 03:49	14°♋32'18	18°24'08	retrograde	3067 Feb 05 10:11	1°♋51'25	
retrograde	3066 Feb 21 15:37	18°♋04'13		evening set	3067 Feb 08 17:17	0°♋48'37	
evening set	3066 Feb 24 16:26	17°♋13'47			3067 Feb 09 19:58	30°♋♋	
inferior conj	3066 Mar 02 13:53	11°♋45'44	3°39'24	inferior conj	3067 Feb 14 08:09	25°♋03'44	3°27'52
minimum elong	3066 Mar 02 13:23	11°♋47'09	3°39'22	minimum elong	3067 Feb 14 06:25	25°♋09'12	3°27'38
min. Earth dist.	3066 Mar 04 20:12	9°♋09'15	0.64172 AU	min. Earth dist.	3067 Feb 15 23:01	23°♋01'59	0.65711 AU
morning rise	3066 Mar 08 09:39	5°♋37'22		morning rise	3067 Feb 19 19:10	18°♋51'36	
direct	3066 Mar 15 05:58	2°♋49'07		direct	3067 Feb 26 07:45	16°♋00'46	
desc. node	3066 Mar 23 08:38	5°♋56'23		desc. node	3067 Mar 10 05:40	22°♋37'23	
morning max el	3066 Mar 28 21:50	10°♋44'00	27°30'28	morning max el	3067 Mar 11 07:41	23°♋41'24	26°38'53
	3066 Apr 13 02:32	0°♌			3067 Mar 16 23:08	0°♋	
	3066 Apr 30 18:35	0°♌			3067 Apr 06 11:03	0°♌	
morning set	3066 May 02 23:36	4°♌17'30		morning set	3067 Apr 16 06:46	17°♌33'42	
max. Earth dist.	3066 May 07 21:40	14°♌16'04	1.33303 AU	max. Earth dist.	3067 Apr 20 12:06	25°♌45'47	1.34562 AU
					3067 Apr 22 14:43	0°♌	
superior conj	3066 May 10 23:11	20°♌43'24	-0°18'20				
minimum elong	3066 May 11 00:06	20°♌48'19	0°18'08	superior conj	3067 Apr 24 22:54	4°♌47'48	-0°46'55
asc. node	3066 May 12 17:19	24°♌28'46		minimum elong	3067 Apr 25 01:20	5°♌00'25	0°46'26
	3066 May 15 07:01	0°♍		asc. node	3067 Apr 29 14:21	14°♌30'12	
evening rise	3066 May 18 03:10	6°♍03'00		evening rise	3067 May 02 12:27	20°♌36'41	
	3066 May 30 23:42	0°♎			3067 May 07 04:11	0°♍	
evening max el	3066 Jun 08 21:29	11°♎13'00	22°32'52	evening max el	3067 May 21 19:39	21°♍57'24	21°03'18
desc. node	3066 Jun 19 07:53	17°♎27'40		retrograde	3067 Jun 02 13:40	27°♍42'02	
retrograde	3066 Jun 22 00:23	17°♎44'15		evening set	3067 Jun 04 18:24	27°♍30'44	
evening set	3066 Jun 25 03:39	17°♎22'34		desc. node	3067 Jun 06 04:54	27°♍11'45	
min. Earth dist.	3066 Jul 03 04:56	13°♎52'02	0.55234 AU	inferior conj	3067 Jun 14 03:00	23°♍32'48	-2°17'21
inferior conj	3066 Jul 04 09:23	13°♎11'34	-3°58'36	minimum elong	3067 Jun 13 20:41	23°♍41'43	2°15'11
minimum elong	3066 Jul 04 01:18	13°♎23'05	3°56'38	min. Earth dist.	3067 Jun 14 16:51	23°♍13'14	0.54867 AU
morning rise	3066 Jul 13 01:06	9°♎20'32		morning rise	3067 Jun 22 22:59	19°♍31'51	
direct	3066 Jul 16 00:37	9°♎00'13		direct	3067 Jun 26 10:03	19°♍05'58	
morning max el	3066 Jul 27 09:46	14°♎17'31	21°03'05	morning max el	3067 Jul 09 07:08	25°♍14'47	22°38'58
	3066 Aug 08 00:01	0°♎			3067 Jul 13 17:11	0°♎	
asc. node	3066 Aug 08 16:32	1°♎12'58		asc. node	3067 Jul 26 13:35	20°♎27'25	
morning set	3066 Aug 16 01:53	15°♎37'05			3067 Jul 31 06:56	0°♎	
	3066 Aug 22 23:30	0°♏		morning set	3067 Jul 31 12:27	0°♎28'49	
superior conj	3066 Aug 23 11:47	1°♏03'23	1°44'08	superior conj	3067 Aug 07 15:24	15°♎39'45	1°37'35
minimum elong	3066 Aug 23 11:07	0°♏59'57	1°44'07	minimum elong	3067 Aug 07 13:40	15°♎30'32	1°37'27
max. Earth dist.	3066 Aug 27 22:31	10°♏02'55	1.35547 AU	max. Earth dist.	3067 Aug 10 16:20	22°♎03'14	1.34079 AU
evening rise	3066 Sep 01 02:22	18°♏04'38			3067 Aug 14 14:09	0°♏	
	3066 Sep 07 17:11	0°♏		evening rise	3067 Aug 15 11:31	1°♏45'26	
























































































































	3067 Aug 31 15:27	0°♄		minimum elong	3068 Jul 21 21:28	0°♄16'52	1°25'14
desc. node	3067 Sep 02 04:12	2°♄19'22			3068 Jul 21 18:22	0°♄	
evening max el	3067 Sep 19 02:47	23°♄31'19	27°10'53	max. Earth dist.	3068 Jul 23 19:08	4°♄23'50	1.33015 AU
	3067 Sep 28 09:06	0°♄		evening rise	3068 Jul 29 07:23	15°♄57'03	
retrograde	3067 Oct 02 11:34	0°♄49'24			3068 Aug 05 14:35	0°♄	
	3067 Oct 06 08:02	30°♄		desc. node	3068 Aug 19 01:13	21°♄41'38	
evening set	3067 Oct 09 09:40	28°♄06'58			3068 Aug 25 09:31	0°♄	
min. Earth dist.	3067 Oct 13 06:00	24°♄25'58	0.64997 AU	evening max el	3068 Aug 31 13:45	6°♄40'18	27°26'25
inferior conj	3067 Oct 15 09:28	22°♄02'58	-2°21'23	retrograde	3068 Sep 14 05:50	13°♄56'54	
minimum elong	3067 Oct 15 13:21	21°♄52'09	2°19'54	evening set	3068 Sep 21 10:14	11°♄20'39	
morning rise	3067 Oct 21 17:59	16°♄30'23		min. Earth dist.	3068 Sep 25 01:46	8°♄12'18	0.63403 AU
asc. node	3067 Oct 22 12:46	16°♄11'33		inferior conj	3068 Sep 27 17:33	5°♄32'42	-3°20'04
direct	3067 Oct 24 10:03	15°♄52'32		minimum elong	3068 Sep 27 22:48	5°♄19'31	3°18'23
morning max el	3067 Oct 30 21:59	19°♄21'08	18°04'22	morning rise	3068 Oct 04 12:41	0°♄16'50	
	3067 Nov 07 21:23	0°♄			3068 Oct 05 09:27	30°♄	
morning set	3067 Nov 17 21:05	16°♄20'34		direct	3068 Oct 06 23:59	29°♄47'30	
	3067 Nov 26 04:24	0°♄		asc. node	3068 Oct 08 09:49	29°♄57'15	
desc. node	3067 Nov 29 03:28	4°♄46'56			3068 Oct 08 14:17	0°♄	
				morning max el	3068 Oct 13 14:24	3°♄13'04	17°51'14
superior conj	3067 Dec 02 00:22	9°♄22'28	-0°19'26	morning set	3068 Oct 30 01:39	28°♄36'41	
minimum elong	3067 Dec 01 21:56	9°♄12'48	0°19'05		3068 Oct 30 20:46	0°♄	
max. Earth dist.	3067 Dec 05 16:50	15°♄12'52	1.44976 AU				
	3067 Dec 15 04:01	0°♄		superior conj	3068 Nov 11 04:22	19°♄16'30	0°26'11
evening rise	3067 Dec 18 09:08	4°♄58'29		minimum elong	3068 Nov 11 07:01	19°♄27'29	0°25'49
greatest brilliancy	3067 Dec 31 21:23	25°♄37'14	-0.7m	desc. node	3068 Nov 15 00:29	25°♄33'38	
	3068 Jan 03 20:58	0°♄		max. Earth dist.	3068 Nov 17 10:23	29°♄26'55	1.44050 AU
evening max el	3068 Jan 12 20:16	11°♄30'47	19°47'59		3068 Nov 17 18:39	0°♄	
asc. node	3068 Jan 18 12:04	15°♄33'17		evening rise	3068 Nov 26 18:14	14°♄05'32	
retrograde	3068 Jan 20 07:35	15°♄51'13			3068 Dec 07 06:21	0°♄	
evening set	3068 Jan 23 22:21	14°♄34'48		evening max el	3068 Dec 25 21:07	25°♄02'28	20°51'56
inferior conj	3068 Jan 29 09:09	8°♄35'27	3°04'08	retrograde	3069 Jan 03 05:30	29°♄58'47	
minimum elong	3068 Jan 29 06:45	8°♄43'27	3°03'36	asc. node	3069 Jan 04 09:06	29°♄51'28	
min. Earth dist.	3068 Jan 30 09:35	7°♄14'19	0.66841 AU	evening set	3069 Jan 07 05:35	28°♄27'23	
morning rise	3068 Feb 03 14:55	2°♄22'01		inferior conj	3069 Jan 12 14:21	22°♄16'15	2°30'50
	3068 Feb 07 12:17	30°♄		minimum elong	3069 Jan 12 11:49	22°♄24'57	2°30'05
direct	3068 Feb 09 15:20	29°♄40'51		min. Earth dist.	3069 Jan 13 01:49	21°♄36'52	0.67560 AU
	3068 Feb 11 20:57	0°♄		morning rise	3069 Jan 17 17:52	16°♄03'16	
morning max el	3068 Feb 21 16:37	6°♄52'10	25°24'56	direct	3069 Jan 23 03:50	13°♄40'06	
desc. node	3068 Feb 25 02:40	10°♄34'00		morning max el	3069 Feb 03 01:03	20°♄09'21	23°58'45
	3068 Mar 10 16:20	0°♄		desc. node	3069 Feb 10 23:42	29°♄23'52	
morning set	3068 Mar 28 22:16	29°♄59'59			3069 Feb 11 10:54	0°♄	
	3068 Mar 28 22:16	0°♄			3069 Mar 03 21:10	0°♄	
max. Earth dist.	3068 Apr 01 15:06	6°♄50'11	1.36279 AU	morning set	3069 Mar 10 16:15	11°♄20'08	
				max. Earth dist.	3069 Mar 14 11:06	17°♄57'50	1.38335 AU
superior conj	3068 Apr 07 13:53	18°♄22'09	-1°14'53		3069 Mar 21 00:23	0°♄	
minimum elong	3068 Apr 07 17:43	18°♄41'12	1°14'16				
	3068 Apr 13 07:57	0°♄		superior conj	3069 Mar 21 16:35	1°♄16'43	-1°39'53
asc. node	3068 Apr 15 11:23	4°♄21'42		minimum elong	3069 Mar 21 21:07	1°♄38'15	1°39'23
evening rise	3068 Apr 15 17:28	4°♄52'30		evening rise	3069 Mar 30 15:37	18°♄43'05	
	3068 Apr 30 05:52	0°♄		asc. node	3069 Apr 02 08:25	23°♄58'17	
evening max el	3068 May 03 05:36	3°♄19'01	19°49'33		3069 Apr 05 13:30	0°♄	
retrograde	3068 May 13 05:46	8°♄10'09		evening max el	3069 Apr 16 02:47	15°♄20'34	18°55'24
evening set	3068 May 15 05:26	7°♄59'31		retrograde	3069 Apr 24 13:08	19°♄27'07	
desc. node	3068 May 23 01:54	4°♄34'56		evening set	3069 Apr 26 16:55	19°♄12'03	
inferior conj	3068 May 24 01:55	3°♄58'17	-0°17'38	inferior conj	3069 May 04 18:07	14°♄55'09	1°27'19
minimum elong	3068 May 24 01:07	3°♄59'31	0°17'20	minimum elong	3069 May 04 21:15	14°♄49'36	1°26'19
min. Earth dist.	3068 May 26 06:11	2°♄38'11	0.55475 AU	min. Earth dist.	3069 May 07 21:58	12°♄41'11	0.56916 AU
	3068 May 31 08:26	30°♄		desc. node	3069 May 09 22:54	11°♄22'41	
morning rise	3068 Jun 01 18:35	29°♄29'50		morning rise	3069 May 12 22:25	9°♄51'36	
direct	3068 Jun 06 01:13	28°♄49'27		direct	3069 May 18 05:12	8°♄44'58	
	3068 Jun 11 15:31	0°♄		morning max el	3069 Jun 01 12:43	16°♄10'26	25°56'52
morning max el	3068 Jun 19 21:57	5°♄43'10	24°21'49		3069 Jun 12 18:13	0°♄	
	3068 Jul 07 05:46	0°♄		morning set	3069 Jun 29 11:33	0°♄16'58	
asc. node	3068 Jul 12 10:38	10°♄04'04		asc. node	3069 Jun 29 07:41	29°♄56'37	
morning set	3068 Jul 15 00:12	15°♄23'45			3069 Jun 29 08:20	0°♄	
superior conj	3068 Jul 21 23:45	0°♄29'16	1°25'31	superior conj	3069 Jul 06 10:46	15°♄25'14	1°08'49

minimum elong	3069 Jul 06 08:26	15° \mathfrak{D} 12'24	1°08'25	superior conj	3070 Jun 20 22:34	0° \mathfrak{D} 20'52	0°48'10
max. Earth dist.	3069 Jul 07 04:19	17° \mathfrak{D} 01'38	1.32355 AU	minimum elong	3070 Jun 20 20:39	0° \mathfrak{D} 10'18	0°47'47
evening rise	3069 Jul 13 10:46	0° \mathfrak{Q} 29'57		max. Earth dist.	3070 Jun 20 16:11	29° \mathfrak{H} 45'40	1.32095 AU
	3069 Jul 13 05:01	0° \mathfrak{Q}			3070 Jun 20 18:47	0° \mathfrak{D}	
	3069 Jul 29 15:39	0° \mathfrak{H}		evening rise	3070 Jun 27 19:02	15° \mathfrak{D} 15'09	
desc. node	3069 Aug 05 22:14	10° \mathfrak{H} 19'01			3070 Jul 05 04:19	0° \mathfrak{Q}	
evening max el	3069 Aug 13 20:37	19° \mathfrak{H} 14'03	27°10'04	desc. node	3070 Jul 23 19:16	27° \mathfrak{Q} 52'14	
retrograde	3069 Aug 27 17:04	26° \mathfrak{H} 27'34			3070 Jul 25 19:46	0° \mathfrak{H}	
evening set	3069 Sep 03 19:53	24° \mathfrak{H} 09'48		evening max el	3070 Jul 26 20:50	1° \mathfrak{H} 01'13	26°20'32
min. Earth dist.	3069 Sep 07 10:53	21° \mathfrak{H} 25'37	0.61512 AU	retrograde	3070 Aug 09 20:18	8° \mathfrak{H} 12'04	
inferior conj	3069 Sep 10 13:15	18° \mathfrak{H} 41'08	-4°12'44	evening set	3070 Aug 16 09:47	6° \mathfrak{H} 25'31	
minimum elong	3069 Sep 10 18:52	18° \mathfrak{H} 28'40	4°11'25	min. Earth dist.	3070 Aug 20 09:54	3° \mathfrak{H} 50'12	0.59449 AU
morning rise	3069 Sep 17 19:34	13° \mathfrak{H} 45'35		inferior conj	3070 Aug 23 16:58	1° \mathfrak{H} 17'45	-4°51'41
direct	3069 Sep 20 04:55	13° \mathfrak{H} 21'47		minimum elong	3070 Aug 23 20:53	1° \mathfrak{H} 10'11	4°51'13
asc. node	3069 Sep 25 06:53	15° \mathfrak{H} 13'39			3070 Aug 25 09:58	30° \mathfrak{R} \mathfrak{Q}	
morning max el	3069 Sep 27 05:09	16° \mathfrak{H} 52'31	17°56'35	morning rise	3070 Aug 31 10:08	26° \mathfrak{Q} 44'58	
	3069 Oct 06 11:33	0° \mathfrak{L}		direct	3070 Sep 02 20:20	26° \mathfrak{Q} 24'21	
morning set	3069 Oct 13 01:20	11° \mathfrak{L} 47'39			3070 Sep 10 10:48	0° \mathfrak{H}	
				morning max el	3070 Sep 10 14:59	0° \mathfrak{H} 09'54	18°21'36
superior conj	3069 Oct 23 11:29	0° \mathfrak{H} 30'44	1°02'13	asc. node	3070 Sep 12 03:56	1° \mathfrak{H} 46'29	
minimum elong	3069 Oct 23 15:50	0° \mathfrak{H} 49'38	1°01'39	morning set	3070 Sep 26 14:33	25° \mathfrak{H} 36'44	
	3069 Oct 23 04:26	0° \mathfrak{H}			3070 Sep 28 21:37	0° \mathfrak{L}	
max. Earth dist.	3069 Oct 30 23:37	13° \mathfrak{H} 13'22	1.42530 AU	superior conj	3070 Oct 05 18:25	12° \mathfrak{L} 54'29	1°26'39
desc. node	3069 Nov 01 21:31	16° \mathfrak{H} 21'12		minimum elong	3070 Oct 05 22:01	13° \mathfrak{L} 10'58	1°26'19
evening rise	3069 Nov 06 09:34	23° \mathfrak{H} 33'57		max. Earth dist.	3070 Oct 13 07:04	26° \mathfrak{L} 17'01	1.40605 AU
	3069 Nov 10 12:35	0° \mathfrak{X}			3070 Oct 15 11:32	0° \mathfrak{H}	
	3069 Dec 01 09:05	0° \mathfrak{Z}		evening rise	3070 Oct 17 20:10	3° \mathfrak{H} 55'53	
evening max el	3069 Dec 08 16:25	8° \mathfrak{Z} 35'14	22°06'07	desc. node	3070 Oct 19 18:34	7° \mathfrak{H} 05'34	
retrograde	3069 Dec 18 02:09	14° \mathfrak{Z} 11'04			3070 Nov 03 19:02	0° \mathfrak{X}	
asc. node	3069 Dec 22 06:08	12° \mathfrak{Z} 37'43		evening max el	3070 Nov 21 07:21	22° \mathfrak{X} 10'31	23°25'43
evening set	3069 Dec 22 13:17	12° \mathfrak{Z} 23'39		retrograde	3070 Dec 01 20:03	28° \mathfrak{X} 24'23	
inferior conj	3069 Dec 27 21:41	6° \mathfrak{Z} 04'02	1°49'48	evening set	3070 Dec 06 19:48	26° \mathfrak{X} 20'33	
minimum elong	3069 Dec 27 19:30	6° \mathfrak{Z} 11'36	1°49'01	asc. node	3070 Dec 09 03:10	23° \mathfrak{X} 59'09	
min. Earth dist.	3069 Dec 27 21:31	6° \mathfrak{Z} 04'35	0.67896 AU	inferior conj	3070 Dec 12 05:17	19° \mathfrak{X} 56'22	1°02'21
	3070 Jan 01 22:21	30° \mathfrak{R} \mathfrak{X}		minimum elong	3070 Dec 12 03:53	20° \mathfrak{X} 01'11	1°01'46
morning rise	3070 Jan 02 01:35	29° \mathfrak{X} 53'00		min. Earth dist.	3070 Dec 11 18:20	20° \mathfrak{X} 33'57	0.67872 AU
direct	3070 Jan 06 20:32	27° \mathfrak{X} 52'01		morning rise	3070 Dec 17 11:55	13° \mathfrak{X} 49'10	
	3070 Jan 12 09:30	0° \mathfrak{Z}		direct	3070 Dec 21 16:33	12° \mathfrak{X} 11'00	
morning max el	3070 Jan 16 11:40	3° \mathfrak{Z} 33'02	22°30'11	morning max el	3070 Dec 30 03:50	17° \mathfrak{X} 06'01	21°07'33
desc. node	3070 Jan 28 20:44	18° \mathfrak{Z} 52'02			3071 Jan 09 13:59	0° \mathfrak{Z}	
	3070 Feb 05 14:22	0° \mathfrak{A}		desc. node	3071 Jan 15 17:47	8° \mathfrak{Z} 47'49	
morning set	3070 Feb 19 06:54	21° \mathfrak{A} 20'03		morning set	3071 Jan 29 17:30	0° \mathfrak{A} 02'19	
	3070 Feb 24 11:42	0° \mathfrak{H}			3071 Jan 29 16:55	0° \mathfrak{A}	
max. Earth dist.	3070 Feb 24 07:29	29° \mathfrak{A} 42'02	1.40500 AU	max. Earth dist.	3071 Feb 06 09:43	12° \mathfrak{A} 19'42	1.42492 AU
superior conj	3070 Mar 04 02:28	13° \mathfrak{H} 20'10	-1°58'37	superior conj	3071 Feb 13 14:24	24° \mathfrak{A} 20'54	-2°06'27
minimum elong	3070 Mar 04 06:07	13° \mathfrak{H} 36'38	1°58'24	minimum elong	3071 Feb 13 14:34	24° \mathfrak{A} 21'33	2°06'27
	3070 Mar 13 02:14	0° \mathfrak{Y}			3071 Feb 16 21:01	0° \mathfrak{H}	
evening rise	3070 Mar 14 03:46	2° \mathfrak{Y} 00'21		evening rise	3071 Feb 25 02:00	14° \mathfrak{H} 35'25	
asc. node	3070 Mar 20 05:28	13° \mathfrak{Y} 14'16			3071 Mar 05 20:14	0° \mathfrak{Y}	
evening max el	3070 Mar 30 08:25	27° \mathfrak{Y} 55'48	18°21'33	asc. node	3071 Mar 07 02:30	2° \mathfrak{Y} 02'44	
	3070 Apr 01 21:18	0° \mathfrak{X}		evening max el	3071 Mar 13 19:11	10° \mathfrak{Y} 55'57	18°07'35
retrograde	3070 Apr 06 15:42	1° \mathfrak{X} 33'15		retrograde	3071 Mar 20 10:53	14° \mathfrak{Y} 20'07	
evening set	3070 Apr 09 01:43	1° \mathfrak{X} 10'27		evening set	3071 Mar 23 02:54	13° \mathfrak{Y} 47'28	
	3070 Apr 11 16:03	30° \mathfrak{R} \mathfrak{Y}		inferior conj	3071 Mar 29 17:21	8° \mathfrak{Y} 50'05	3°22'39
inferior conj	3070 Apr 16 07:52	26° \mathfrak{Y} 33'34	2°40'49	minimum elong	3071 Mar 29 19:41	8° \mathfrak{Y} 44'27	3°22'20
minimum elong	3070 Apr 16 11:35	26° \mathfrak{Y} 25'47	2°39'56	min. Earth dist.	3071 Apr 01 21:51	5° \mathfrak{Y} 47'07	0.61065 AU
min. Earth dist.	3070 Apr 19 18:26	23° \mathfrak{Y} 42'49	0.58895 AU	morning rise	3071 Apr 05 10:35	2° \mathfrak{Y} 56'49	
morning rise	3070 Apr 23 18:38	20° \mathfrak{Y} 59'53		direct	3071 Apr 12 04:42	0° \mathfrak{Y} 40'24	
desc. node	3070 Apr 26 19:57	19° \mathfrak{Y} 44'13		desc. node	3071 Apr 13 16:58	0° \mathfrak{Y} 46'53	
direct	3070 Apr 29 23:05	19° \mathfrak{Y} 18'00		morning max el	3071 Apr 26 10:17	8° \mathfrak{Y} 35'58	27°46'05
morning max el	3070 May 14 08:21	27° \mathfrak{Y} 03'17	27°08'30		3071 May 12 19:57	0° \mathfrak{X}	
	3070 May 17 03:55	0° \mathfrak{X}		morning set	3071 May 29 02:05	29° \mathfrak{X} 33'29	
	3070 Jun 06 06:05	0° \mathfrak{H}			3071 May 29 07:14	0° \mathfrak{H}	
morning set	3070 Jun 13 20:47	15° \mathfrak{H} 02'12		asc. node	3071 Jun 03 01:48	10° \mathfrak{H} 07'02	
asc. node	3070 Jun 16 04:44	19° \mathfrak{H} 59'04		max. Earth dist.	3071 Jun 04 03:00	12° \mathfrak{H} 23'58	1.32237 AU

superior conj	3071 Jun 05 09:29	15° Π 10'37	0°24'15	superior conj	3072 May 19 17:41	29° \mathcal{B} 47'47	-0°02'17
minimum elong	3071 Jun 05 08:24	15° Π 04'40	0°24'01	minimum elong	3072 May 19 17:47	29° \mathcal{B} 48'22	0°02'14
evening rise	3071 Jun 12 06:04	0° \mathcal{E} 05'58		behind sun begin	3072 May 19 12:34	29° \mathcal{B} 20'14	
	3071 Jun 12 04:57	0° \mathcal{E}		behind sun end	3072 May 19 23:00	0° Π 16'31	
	3071 Jun 28 16:29	0° Ω		asc. node	3072 May 19 22:50	0° Π 15'38	
evening max el	3071 Jul 08 13:58	12° Ω 02'20	25°02'38		3072 May 19 19:56	0° Π	
desc. node	3071 Jul 10 16:17	13° Ω 55'15		evening rise	3072 May 26 17:55	14° Π 55'10	
retrograde	3071 Jul 22 13:20	19° Ω 07'24			3072 Jun 03 07:07	0° \mathcal{E}	
evening set	3071 Jul 27 23:57	17° Ω 59'36		evening max el	3072 Jun 19 03:23	22° \mathcal{E} 33'07	23°28'20
min. Earth dist.	3071 Aug 02 01:36	15° Ω 14'21	0.57457 AU	desc. node	3072 Jun 26 13:16	27° \mathcal{E} 54'31	
inferior conj	3071 Aug 05 01:31	13° Ω 13'51	-5°04'49	retrograde	3072 Jul 02 17:42	29° \mathcal{E} 21'19	
minimum elong	3071 Aug 05 00:55	13° Ω 14'52	5°04'49	evening set	3072 Jul 06 16:36	28° \mathcal{E} 47'05	
morning rise	3071 Aug 13 04:25	9° Ω 03'05		min. Earth dist.	3072 Jul 13 13:24	25° \mathcal{E} 36'48	0.55854 AU
direct	3071 Aug 15 18:08	8° Ω 43'49		inferior conj	3072 Jul 15 14:02	24° \mathcal{E} 24'36	-4°37'09
morning max el	3071 Aug 24 16:35	12° Ω 55'35	19°07'35	minimum elong	3072 Jul 15 07:47	24° \mathcal{E} 33'56	4°36'07
asc. node	3071 Aug 30 00:59	19° Ω 20'43		morning rise	3072 Jul 24 01:27	20° \mathcal{E} 29'55	
	3071 Sep 05 10:18	0° \mathcal{M}		direct	3072 Jul 26 20:59	20° \mathcal{E} 10'24	
morning set	3071 Sep 10 13:11	9° \mathcal{M} 52'51		morning max el	3072 Aug 06 07:17	25° \mathcal{E} 00'40	20°15'07
					3072 Aug 10 18:23	0° Ω	
superior conj	3071 Sep 18 19:37	26° \mathcal{M} 11'54	1°40'21	asc. node	3072 Aug 15 22:02	7° Ω 42'45	
minimum elong	3071 Sep 18 21:30	26° \mathcal{M} 21'02	1°40'15	morning set	3072 Aug 24 18:14	24° Ω 28'11	
	3071 Sep 20 19:16	0° \mathcal{L}			3072 Aug 27 10:56	0° \mathcal{M}	
max. Earth dist.	3071 Sep 25 11:02	8° \mathcal{L} 38'03	1.38532 AU	superior conj	3072 Sep 01 10:03	10° \mathcal{M} 09'01	1°44'57
evening rise	3071 Sep 29 06:30	15° \mathcal{L} 23'27		minimum elong	3072 Sep 01 10:13	10° \mathcal{M} 09'51	1°44'58
desc. node	3071 Oct 06 15:37	27° \mathcal{L} 42'52		max. Earth dist.	3072 Sep 06 16:59	20° \mathcal{M} 34'00	1.36559 AU
	3071 Oct 08 02:01	0° \mathcal{M}		evening rise	3072 Sep 10 14:29	27° \mathcal{M} 51'52	
	3071 Oct 29 11:47	0° \mathcal{J}			3072 Sep 11 18:42	0° \mathcal{L}	
evening max el	3071 Nov 03 20:01	5° \mathcal{J} 49'47	24°44'25	desc. node	3072 Sep 22 12:38	18° \mathcal{L} 08'31	
retrograde	3071 Nov 15 10:00	12° \mathcal{J} 34'26			3072 Sep 30 10:22	0° \mathcal{M}	
evening set	3071 Nov 20 23:30	10° \mathcal{J} 14'51		evening max el	3072 Oct 16 08:19	19° \mathcal{M} 31'35	25°54'52
min. Earth dist.	3071 Nov 25 13:49	5° \mathcal{J} 02'02	0.67509 AU	retrograde	3072 Oct 28 19:04	26° \mathcal{M} 36'38	
inferior conj	3071 Nov 26 11:22	3° \mathcal{J} 50'31	0°09'34	evening set	3072 Nov 03 22:39	24° \mathcal{M} 03'41	
minimum elong	3071 Nov 26 11:08	3° \mathcal{J} 51'18	0°09'28	min. Earth dist.	3072 Nov 08 05:32	19° \mathcal{M} 26'14	0.66809 AU
transit middle	3071 Nov 26 11:08	3° \mathcal{J} 51'18	0°09'28	inferior conj	3072 Nov 09 14:07	17° \mathcal{M} 43'48	-0°47'17
transit begin	3071 Nov 26 08:54	3° \mathcal{J} 58'44		minimum elong	3072 Nov 09 15:22	17° \mathcal{M} 39'52	0°46'46
transit end	3071 Nov 26 13:22	3° \mathcal{J} 43'53		asc. node	3072 Nov 11 21:14	14° \mathcal{M} 57'12	
asc. node	3071 Nov 26 00:12	4° \mathcal{J} 27'37		morning rise	3072 Nov 15 08:27	11° \mathcal{M} 51'29	
	3071 Nov 29 13:29	30° \mathcal{R} \mathcal{M}		direct	3072 Nov 18 13:20	10° \mathcal{M} 52'33	
morning rise	3071 Dec 01 22:52	27° \mathcal{M} 49'24		morning max el	3072 Nov 25 10:56	14° \mathcal{M} 42'46	19°00'11
direct	3071 Dec 05 14:40	26° \mathcal{M} 32'22			3072 Dec 06 21:26	0° \mathcal{J}	
	3071 Dec 12 07:05	0° \mathcal{J}		morning set	3072 Dec 17 20:24	16° \mathcal{J} 58'40	
morning max el	3071 Dec 13 03:37	0° \mathcal{J} 49'38	19°56'30	desc. node	3072 Dec 19 11:53	19° \mathcal{J} 33'00	
desc. node	3072 Jan 02 14:50	29° \mathcal{J} 03'16			3072 Dec 26 04:13	0° \mathcal{Z}	
	3072 Jan 03 05:44	0° \mathcal{Z}		max. Earth dist.	3073 Jan 01 11:59	9° \mathcal{Z} 55'13	1.44991 AU
morning set	3072 Jan 08 13:31	8° \mathcal{Z} 10'06		superior conj	3073 Jan 03 11:14	13° \mathcal{Z} 01'21	-1°30'36
max. Earth dist.	3072 Jan 19 19:39	25° \mathcal{Z} 48'32	1.44055 AU	minimum elong	3073 Jan 03 02:09	12° \mathcal{Z} 25'32	1°29'43
	3072 Jan 22 10:26	0° \approx			3073 Jan 14 02:38	0° \approx	
superior conj	3072 Jan 25 00:29	4° \approx 11'05	-1°58'11	evening rise	3073 Jan 18 11:44	7° \approx 06'26	
minimum elong	3072 Jan 24 18:56	3° \approx 48'30	1°57'53		3073 Feb 01 20:05	0° \mathcal{H}	
evening rise	3072 Feb 07 05:55	26° \approx 19'05		asc. node	3073 Feb 07 20:32	7° \mathcal{H} 38'41	
	3072 Feb 09 09:28	0° \mathcal{H}		evening max el	3073 Feb 07 19:43	7° \mathcal{H} 36'36	18°36'19
asc. node	3072 Feb 21 23:32	20° \mathcal{H} 14'24		retrograde	3073 Feb 14 09:55	11° \mathcal{H} 15'14	
evening max el	3072 Feb 25 07:52	24° \mathcal{H} 11'40	18°12'45	evening set	3073 Feb 17 13:23	10° \mathcal{H} 19'29	
retrograde	3072 Mar 02 18:21	27° \mathcal{H} 36'46		inferior conj	3073 Feb 23 07:42	4° \mathcal{H} 43'57	3°36'10
evening set	3072 Mar 05 15:58	26° \mathcal{H} 53'01		minimum elong	3073 Feb 23 06:36	4° \mathcal{H} 47'14	3°36'04
inferior conj	3072 Mar 11 18:36	21° \mathcal{H} 35'48	3°38'58	min. Earth dist.	3073 Feb 25 07:20	2° \mathcal{H} 21'24	0.64886 AU
minimum elong	3072 Mar 11 19:04	21° \mathcal{H} 34'33	3°38'57		3073 Feb 27 10:35	30° \mathcal{R} \approx	
min. Earth dist.	3072 Mar 14 09:51	18° \mathcal{H} 44'30	0.63128 AU	morning rise	3073 Feb 28 23:20	28° \approx 33'53	
morning rise	3072 Mar 17 21:09	15° \mathcal{H} 31'35		direct	3073 Mar 07 17:07	25° \approx 43'01	
direct	3072 Mar 24 19:19	12° \mathcal{H} 50'51		desc. node	3073 Mar 17 11:03	0° \mathcal{H} 11'26	
desc. node	3072 Mar 30 14:00	14° \mathcal{H} 26'34			3073 Mar 17 05:26	0° \mathcal{H}	
morning max el	3072 Apr 07 17:08	20° \mathcal{H} 48'02	27°46'16	morning max el	3073 Mar 21 02:40	3° \mathcal{H} 32'25	27°11'47
	3072 Apr 15 15:58	0° \mathcal{Y}			3073 Apr 10 01:33	0° \mathcal{Y}	
	3072 May 04 21:03	0° \mathcal{B}		morning set	3073 Apr 25 15:13	27° \mathcal{Y} 21'26	
morning set	3072 May 12 01:11	13° \mathcal{B} 42'45			3073 Apr 26 23:39	0° \mathcal{B}	
max. Earth dist.	3072 May 17 08:47	24° \mathcal{B} 42'58	1.32793 AU				

max. Earth dist.	3073 Apr 30 05:55	6°♄33'06	1.33792 AU	max. Earth dist.	3074 Apr 12 15:47	17°♄52'16	1.35245 AU
superior conj	3073 May 03 21:10	14°♄06'11	-0°30'25	superior conj	3074 Apr 17 17:36	27°♄59'10	-0°58'57
minimum elong	3073 May 03 22:44	14°♄14'24	0°30'06	minimum elong	3074 Apr 17 20:40	28°♄14'48	0°58'24
asc. node	3073 May 06 19:52	20°♄20'52			3074 Apr 18 17:15	0°♄	
evening rise	3073 May 11 04:43	29°♄36'39		asc. node	3074 Apr 23 16:54	10°♄18'52	
	3073 May 11 09:11	0°♄		evening rise	3074 Apr 25 12:32	14°♄04'17	
	3073 May 28 23:57	0°♄			3074 May 03 18:37	0°♄	
evening max el	3073 May 31 20:14	3°♄03'29	21°53'06	evening max el	3074 May 13 23:11	14°♄02'35	20°29'34
retrograde	3073 Jun 13 10:28	9°♄16'24		retrograde	3074 May 24 23:49	19°♄24'52	
desc. node	3073 Jun 13 10:17	9°♄16'24		evening set	3074 May 27 00:34	19°♄14'41	
evening set	3073 Jun 16 02:14	9°♄00'36		desc. node	3074 May 31 07:18	17°♄53'57	
inferior conj	3073 Jun 25 11:15	4°♄57'00	-3°20'01	inferior conj	3074 Jun 05 05:26	15°♄16'49	-1°26'40
minimum elong	3073 Jun 25 03:08	5°♄08'21	3°17'37	minimum elong	3074 Jun 05 01:21	15°♄22'46	1°25'11
min. Earth dist.	3073 Jun 25 00:19	5°♄12'19	0.54966 AU	min. Earth dist.	3074 Jun 06 12:39	14°♄31'34	0.55009 AU
morning rise	3073 Jul 04 05:29	1°♄04'33		morning rise	3074 Jun 14 01:11	11°♄06'08	
direct	3073 Jul 07 09:22	0°♄42'31		direct	3074 Jun 17 19:22	10°♄35'41	
morning max el	3073 Jul 19 10:23	6°♄21'05	21°42'22	morning max el	3074 Jul 01 04:29	17°♄04'37	23°22'43
asc. node	3073 Aug 02 19:05	26°♄40'52			3074 Jul 11 13:48	0°♄	
	3073 Aug 04 13:07	0°♄		asc. node	3074 Jul 20 16:09	16°♄06'02	
morning set	3073 Aug 09 03:20	9°♄15'43		morning set	3074 Jul 24 14:40	24°♄10'07	
					3074 Jul 27 08:20	0°♄	
superior conj	3073 Aug 16 09:46	24°♄33'48	1°42'06	superior conj	3074 Jul 31 15:44	9°♄17'19	1°33'05
minimum elong	3073 Aug 16 08:35	24°♄27'37	1°42'02	minimum elong	3074 Jul 31 13:43	9°♄06'26	1°32'53
	3073 Aug 19 00:48	0°♄		max. Earth dist.	3074 Aug 03 03:46	14°♄37'06	1.33574 AU
max. Earth dist.	3073 Aug 20 05:53	2°♄27'58	1.34873 AU	evening rise	3074 Aug 08 05:53	25°♄04'47	
evening rise	3073 Aug 24 15:42	11°♄09'20			3074 Aug 10 18:10	0°♄	
	3073 Sep 04 05:04	0°♄		desc. node	3074 Aug 27 06:38	27°♄58'13	
desc. node	3073 Sep 09 09:37	8°♄16'12			3074 Aug 28 16:22	0°♄	
	3073 Sep 25 19:10	0°♄		evening max el	3074 Sep 11 08:31	16°♄30'27	27°21'01
evening max el	3073 Sep 28 20:44	3°♄08'25	26°49'29	retrograde	3074 Sep 24 20:47	23°♄48'49	
retrograde	3073 Oct 11 22:46	10°♄23'57		evening set	3074 Oct 01 22:29	21°♄07'13	
evening set	3073 Oct 18 15:09	7°♄42'31		min. Earth dist.	3074 Oct 05 16:19	17°♄41'05	0.64362 AU
min. Earth dist.	3073 Oct 22 15:03	3°♄41'25	0.65761 AU	inferior conj	3074 Oct 08 01:13	15°♄09'36	-2°46'42
inferior conj	3073 Oct 24 11:30	1°♄31'37	-1°46'48	minimum elong	3074 Oct 08 05:45	14°♄57'29	2°45'03
minimum elong	3073 Oct 24 14:26	1°♄23'04	1°45'36	morning rise	3074 Oct 14 14:11	9°♄44'02	
	3073 Oct 25 19:22	30°♄		asc. node	3074 Oct 16 15:19	9°♄11'42	
asc. node	3073 Oct 29 18:16	26°♄20'50		direct	3074 Oct 17 03:52	9°♄10'17	
morning rise	3073 Oct 30 14:26	25°♄51'08		morning max el	3074 Oct 23 16:01	12°♄36'27	17°56'38
direct	3073 Nov 02 10:32	25°♄06'40			3074 Nov 04 16:41	0°♄	
morning max el	3073 Nov 08 23:57	28°♄40'17	18°19'58	morning set	3074 Nov 09 21:04	8°♄45'55	
	3073 Nov 10 05:50	0°♄			3074 Nov 22 15:53	0°♄	
morning set	3073 Nov 28 06:30	27°♄10'40		superior conj	3074 Nov 23 03:14	0°♄45'49	0°00'46
	3073 Nov 30 00:23	0°♄		minimum elong	3074 Nov 23 03:18	0°♄46'08	0°00'46
desc. node	3073 Dec 06 08:54	10°♄11'56		behind sun begin	3074 Nov 22 17:05	0°♄04'48	
superior conj	3073 Dec 13 13:01	21°♄33'04	-0°47'18	behind sun end	3074 Nov 23 13:32	1°♄27'24	
minimum elong	3073 Dec 13 07:01	21°♄09'26	0°46'31	desc. node	3074 Nov 23 05:56	0°♄56'44	
max. Earth dist.	3073 Dec 15 07:14	24°♄18'56	1.45193 AU	max. Earth dist.	3074 Nov 28 01:44	8°♄39'35	1.44658 AU
	3073 Dec 18 22:14	0°♄		evening rise	3074 Dec 09 07:30	26°♄11'24	
evening rise	3073 Dec 29 18:23	16°♄58'23			3074 Dec 11 19:03	0°♄	
	3074 Jan 07 02:12	0°♄		greatest brilliancy	3074 Dec 23 18:00	18°♄01'20	-0.6m
greatest brilliancy	3074 Jan 09 16:51	4°♄02'07	-0.8m		3075 Jan 01 08:58	0°♄	
evening max el	3074 Jan 22 04:25	21°♄05'35	19°17'16	evening max el	3075 Jan 05 08:18	4°♄35'58	20°13'42
asc. node	3074 Jan 25 17:33	24°♄02'07		asc. node	3075 Jan 12 14:36	9°♄09'49	
retrograde	3074 Jan 29 06:08	25°♄08'29		retrograde	3075 Jan 13 04:08	9°♄11'34	
evening set	3074 Feb 01 16:21	23°♄59'54		evening set	3075 Jan 16 22:34	7°♄48'59	
inferior conj	3074 Feb 07 05:11	18°♄08'16	3°19'06	inferior conj	3075 Jan 22 08:15	1°♄44'02	2°51'05
minimum elong	3074 Feb 07 03:06	18°♄15'02	3°18'45	minimum elong	3075 Jan 22 05:44	1°♄52'35	2°50'26
min. Earth dist.	3074 Feb 08 13:38	16°♄23'44	0.66241 AU	min. Earth dist.	3075 Jan 23 02:59	0°♄40'44	0.67186 AU
morning rise	3074 Feb 12 13:35	11°♄55'21			3075 Jan 23 15:09	30°♄	
direct	3074 Feb 18 21:16	9°♄07'43		morning rise	3075 Jan 27 12:41	25°♄30'22	
morning max el	3074 Mar 03 12:30	16°♄37'27	26°09'41	direct	3075 Feb 02 07:00	22°♄56'09	
desc. node	3074 Mar 04 08:05	17°♄27'44		morning max el	3075 Feb 13 21:12	29°♄51'43	24°49'15
	3074 Mar 14 15:23	0°♄			3075 Feb 14 00:28	0°♄	
	3074 Apr 02 23:01	0°♄		desc. node	3075 Feb 19 05:07	5°♄49'00	
morning set	3074 Apr 08 16:26	10°♄18'41					

	3075 Mar 08 12:31	0°♄		desc. node	3076 Feb 06 02:09	24°♄56'38	
morning set	3075 Mar 21 23:38	22°♄19'15			3076 Feb 09 19:02	0°♄	
max. Earth dist.	3075 Mar 25 14:58	28°♄53'28	1.37115 AU		3076 Feb 29 09:54	0°♄	
	3075 Mar 26 05:24	0°♄		morning set	3076 Mar 02 06:38	3°♄06'45	
				max. Earth dist.	3076 Mar 06 09:42	10°♄10'53	1.39250 AU
superior conj	3075 Apr 01 03:52	11°♄17'40	-1°26'00				
minimum elong	3075 Apr 01 08:07	11°♄38'27	1°25'25	superior conj	3076 Mar 14 00:03	23°♄52'06	-1°48'51
evening rise	3075 Apr 09 15:01	28°♄10'19		minimum elong	3076 Mar 14 04:28	24°♄12'39	1°48'27
asc. node	3075 Apr 10 13:56	0°♄04'33			3076 Mar 17 06:17	0°♄	
	3075 Apr 10 13:01	0°♄		evening rise	3076 Mar 23 09:21	11°♄47'34	
evening max el	3075 Apr 26 14:12	25°♄41'48	19°24'05	asc. node	3076 Mar 27 10:59	19°♄33'04	
	3075 May 03 20:46	0°♄			3076 Apr 02 10:57	0°♄	
retrograde	3075 May 05 21:33	0°♄12'34		evening max el	3076 Apr 08 15:30	7°♄59'18	18°38'38
evening set	3075 May 07 22:07	0°♄00'41		retrograde	3076 Apr 16 12:46	11°♄51'03	
	3075 May 07 23:32	30°♄8		evening set	3076 Apr 18 19:14	11°♄32'59	
inferior conj	3075 May 16 10:48	25°♄53'59	0°30'04	inferior conj	3076 Apr 26 12:06	7°♄08'12	2°02'32
minimum elong	3075 May 16 12:04	25°♄51'56	0°29'37	minimum elong	3076 Apr 26 15:50	7°♄01'05	2°01'26
desc. node	3075 May 18 04:20	24°♄46'07		min. Earth dist.	3076 Apr 29 20:55	4°♄35'44	0.57716 AU
min. Earth dist.	3075 May 19 03:16	24°♄09'21	0.55996 AU	morning rise	3076 May 04 09:16	1°♄50'47	
morning rise	3075 May 24 23:06	21°♄10'14		desc. node	3076 May 04 01:21	2°♄00'15	
direct	3075 May 29 15:38	20°♄20'08		direct	3076 May 10 02:14	0°♄29'26	
morning max el	3075 Jun 12 18:45	27°♄29'53	25°04'03	morning max el	3076 May 24 11:01	8°♄04'47	26°30'46
	3075 Jun 15 05:33	0°♄			3076 Jun 09 21:52	0°♄	
	3075 Jul 04 15:57	0°♄		morning set	3076 Jun 22 13:07	23°♄55'08	
asc. node	3075 Jul 07 13:12	5°♄50'00		asc. node	3076 Jun 23 10:16	25°♄47'04	
morning set	3075 Jul 09 02:27	9°♄04'57			3076 Jun 25 09:19	0°♄	
superior conj	3075 Jul 16 01:31	24°♄10'37	1°18'58	superior conj	3076 Jun 29 13:06	9°♄07'09	1°00'31
minimum elong	3075 Jul 15 23:09	23°♄57'43	1°18'37	minimum elong	3076 Jun 29 10:54	8°♄54'58	1°00'06
max. Earth dist.	3075 Jul 17 09:27	27°♄04'42	1.32685 AU	max. Earth dist.	3076 Jun 29 20:10	9°♄46'00	1.32203 AU
	3075 Jul 18 17:51	0°♄		evening rise	3076 Jul 06 11:07	24°♄05'42	
evening rise	3075 Jul 23 05:20	9°♄26'33			3076 Jul 09 08:04	0°♄	
	3075 Aug 03 02:27	0°♄			3076 Jul 26 23:26	0°♄	
desc. node	3075 Aug 14 03:40	17°♄03'10		desc. node	3076 Jul 31 00:41	5°♄15'45	
evening max el	3075 Aug 24 17:56	29°♄25'18	27°23'27	evening max el	3076 Aug 05 22:26	11°♄40'43	26°52'55
	3075 Aug 25 08:49	0°♄		retrograde	3076 Aug 19 20:35	18°♄52'44	
retrograde	3075 Sep 07 12:31	6°♄41'28		evening set	3076 Aug 26 19:06	16°♄47'13	
evening set	3075 Sep 14 17:15	4°♄11'23		min. Earth dist.	3076 Aug 30 12:37	14°♄08'36	0.60645 AU
min. Earth dist.	3075 Sep 18 07:43	1°♄14'39	0.62627 AU	inferior conj	3076 Sep 02 17:49	11°♄27'11	-4°31'33
	3075 Sep 19 15:24	30°♄8		minimum elong	3076 Sep 02 23:01	11°♄16'14	4°30'35
inferior conj	3075 Sep 21 04:26	28°♄30'59	-3°43'32	morning rise	3076 Sep 10 04:49	6°♄40'45	
minimum elong	3075 Sep 21 10:02	28°♄17'37	3°41'56	direct	3076 Sep 12 14:05	6°♄18'35	
morning rise	3075 Sep 28 04:20	23°♄23'29		asc. node	3076 Sep 19 09:28	9°♄27'11	
direct	3075 Sep 30 14:19	22°♄56'59		morning max el	3076 Sep 19 21:10	9°♄54'43	18°04'39
asc. node	3075 Oct 03 12:23	23°♄36'47			3076 Oct 03 00:47	0°♄	
morning max el	3075 Oct 07 08:10	26°♄24'00	17°51'09	morning set	3076 Oct 05 16:34	4°♄55'52	
	3075 Oct 10 10:31	0°♄					
morning set	3075 Oct 23 10:31	21°♄27'05		superior conj	3076 Oct 15 12:36	22°♄58'49	1°13'59
	3075 Oct 28 06:23	0°♄		minimum elong	3076 Oct 15 16:50	23°♄17'38	1°13'30
					3076 Oct 19 12:42	0°♄	
superior conj	3075 Nov 03 18:46	11°♄13'49	0°42'52	max. Earth dist.	3076 Oct 23 03:52	6°♄10'25	1.41749 AU
minimum elong	3075 Nov 03 22:33	11°♄29'46	0°42'20	desc. node	3076 Oct 26 24:00	12°♄30'24	
desc. node	3075 Nov 10 02:57	21°♄44'00		evening rise	3076 Oct 28 15:36	15°♄10'22	
max. Earth dist.	3075 Nov 10 17:06	22°♄41'18	1.43460 AU		3076 Nov 07 04:48	0°♄	
	3075 Nov 15 06:53	0°♄			3076 Nov 29 09:23	0°♄	
evening rise	3075 Nov 18 17:08	5°♄21'54		evening max el	3076 Dec 01 00:04	1°♄41'36	22°39'49
	3075 Dec 05 04:21	0°♄		retrograde	3076 Dec 10 21:12	7°♄33'39	
evening max el	3075 Dec 19 06:43	18°♄07'48	21°22'38	evening set	3076 Dec 15 13:32	5°♄39'23	
retrograde	3075 Dec 28 01:44	23°♄21'05		asc. node	3076 Dec 16 08:41	4°♄56'31	
asc. node	3075 Dec 30 11:38	22°♄49'08			3076 Dec 20 09:59	30°♄8	
evening set	3076 Jan 01 06:11	21°♄43'14		inferior conj	3076 Dec 20 22:15	29°♄17'37	1°30'23
inferior conj	3076 Jan 06 14:36	15°♄28'07	2°14'20	minimum elong	3076 Dec 20 20:21	29°♄24'12	1°29'40
minimum elong	3076 Jan 06 12:10	15°♄36'34	2°13'32	min. Earth dist.	3076 Dec 20 17:30	29°♄34'04	0.67928 AU
min. Earth dist.	3076 Jan 06 21:05	15°♄05'44	0.67739 AU	morning rise	3076 Dec 26 03:02	23°♄08'01	
morning rise	3076 Jan 11 17:57	9°♄15'33		direct	3076 Dec 30 15:52	21°♄16'33	
direct	3076 Jan 16 21:33	7°♄01'17		morning max el	3077 Jan 08 18:24	26°♄36'53	21°53'54
morning max el	3076 Jan 27 06:01	13°♄10'48	23°20'50		3077 Jan 11 20:58	0°♄	

desc. node	3077 Jan 22 23:11	14°  37'15		desc. node	3078 Jan 09 20:15	4°  42'02	
	3077 Feb 02 08:55	0° 		morning set	3078 Jan 20 10:18	20°  49'00	
morning set	3077 Feb 10 08:40	12°  30'09			3078 Jan 26 06:35	0° 	
max. Earth dist.	3077 Feb 16 08:07	22°  16'35	1.41386 AU	max. Earth dist.	3078 Jan 29 14:10	5°  18'50	1.43228 AU
	3077 Feb 20 21:27	0° 					
superior conj	3077 Feb 24 01:12	5°  29'52	-2°03'36	superior conj	3078 Feb 05 02:17	15°  59'56	-2°05'12
minimum elong	3077 Feb 24 03:43	5°  41'00	2°03'29	minimum elong	3078 Feb 05 00:07	15°  50'56	2°05'09
evening rise	3077 Mar 06 16:00	24°  47'07			3078 Feb 13 06:59	0° 	
	3077 Mar 09 11:51	0° 		evening rise	3078 Feb 17 06:55	7°  00'45	
asc. node	3077 Mar 14 08:01	8°  07'37		asc. node	3078 Mar 01 05:01	27°  11'11	
evening max el	3077 Mar 22 23:43	20°  45'51	18°13'16		3078 Mar 03 04:35	0° 	
retrograde	3077 Mar 29 22:48	24°  15'30		evening max el	3078 Mar 06 11:32	3°  52'27	18°07'27
evening set	3077 Apr 01 11:36	23°  48'33		retrograde	3078 Mar 12 23:53	7°  15'36	
inferior conj	3077 Apr 08 10:33	19°  02'44	3°02'07	evening set	3078 Mar 15 18:17	6°  38'18	
minimum elong	3077 Apr 08 13:50	18°  55'27	3°01'28	inferior conj	3078 Mar 22 03:12	1°  31'59	3°32'18
min. Earth dist.	3077 Apr 11 19:43	16°  03'58	0.59816 AU	minimum elong	3078 Mar 22 04:44	1°  28'04	3°32'10
morning rise	3077 Apr 15 13:42	13°  19'50			3078 Mar 23 15:06	30°  18'18	
desc. node	3077 Apr 20 22:22	11°  26'10		min. Earth dist.	3078 Mar 25 02:27	28°  31'36	0.61964 AU
direct	3077 Apr 22 01:15	11°  22'42		morning rise	3078 Mar 28 13:43	25°  33'07	
morning max el	3077 May 06 09:07	19°  12'26	27°29'04	direct	3078 Apr 04 10:30	23°  05'07	
	3077 May 15 12:31	0° 		desc. node	3078 Apr 07 19:24	23°  37'35	
	3077 Jun 02 14:51	0° 			3078 Apr 17 11:51	0° 	
morning set	3077 Jun 06 20:57	8°  35'11		morning max el	3078 Apr 18 13:29	1°  02'09	27°50'55
asc. node	3077 Jun 10 07:19	15°  52'19			3078 May 09 16:20	0° 	
max. Earth dist.	3077 Jun 13 08:13	22°  29'58	1.32111 AU	morning set	3078 May 21 23:54	22°  57'49	
					3078 May 25 09:05	0° 	
superior conj	3077 Jun 14 00:45	24°  01'00	0°38'24	max. Earth dist.	3078 May 27 17:33	5°  02'18	1.32417 AU
minimum elong	3077 Jun 13 23:08	23°  52'07	0°38'04	asc. node	3078 May 28 04:20	6°  00'39	
	3077 Jun 16 18:00	0° 					
evening rise	3077 Jun 20 20:50	8°  54'29		superior conj	3078 May 29 10:41	8°  45'35	0°13'17
	3077 Jul 01 18:15	0° 		minimum elong	3078 May 29 10:04	8°  42'13	0°13'10
desc. node	3077 Jul 17 21:42	22°  01'40		behind sun begin	3078 May 29 07:10	8°  26'24	
evening max el	3077 Jul 18 19:47	23°  08'40	25°50'19	behind sun end	3078 May 29 12:58	8°  58'02	
	3077 Jul 30 03:50	0° 		evening rise	3078 Jun 05 08:24	23°  45'06	
retrograde	3077 Aug 01 19:24	0° 			3078 Jun 08 08:21	0° 	
	3077 Aug 04 10:39	30°  16'48			3078 Jun 26 18:59	0° 	
evening set	3077 Aug 07 23:15	28°  46'32		evening max el	3078 Jun 30 10:28	3°  53'15	24°23'39
min. Earth dist.	3077 Aug 12 08:04	26°  09'20	0.58583 AU	desc. node	3078 Jul 04 18:42	7°  29'45	
inferior conj	3077 Aug 15 13:48	23°  48'23	-5°01'17	retrograde	3078 Jul 14 07:15	10°  53'27	
minimum elong	3077 Aug 15 16:08	23°  44'08	5°01'08	evening set	3078 Jul 19 03:27	10°  01'01	
morning rise	3077 Aug 23 11:14	19°  25'05		min. Earth dist.	3078 Jul 24 21:19	7°  06'57	0.56709 AU
direct	3077 Aug 25 22:50	19°  05'04		inferior conj	3078 Jul 27 13:42	5°  25'06	-4°58'55
morning max el	3077 Sep 03 03:52	23°  00'03	18°38'28	minimum elong	3078 Jul 27 10:36	5°  30'03	4°58'40
asc. node	3077 Sep 06 06:31	26°  28'16		morning rise	3078 Aug 04 20:25	1°  22'47	
	3077 Sep 08 19:29	0° 		direct	3078 Aug 07 12:27	1°  03'36	
morning set	3077 Sep 19 10:18	18°  58'31		morning max el	3078 Aug 17 01:09	5°  29'40	19°33'42
	3077 Sep 25 02:46	0° 		asc. node	3078 Aug 24 03:33	14°  24'18	
					3078 Sep 01 19:07	0° 	
superior conj	3077 Sep 28 04:03	5°  47'56	1°33'41	morning set	3078 Sep 03 12:00	3°  23'49	
minimum elong	3077 Sep 28 06:58	6°  01'37	1°33'27				
max. Earth dist.	3077 Oct 05 10:02	18°  57'59	1.39734 AU	superior conj	3078 Sep 11 11:29	19°  24'15	1°43'19
evening rise	3077 Oct 09 12:22	26°  00'39		minimum elong	3078 Sep 11 12:37	19°  29'50	1°43'16
	3077 Oct 11 21:51	0° 			3078 Sep 16 24:00	0° 	
desc. node	3077 Oct 13 21:02	3°  12'31		max. Earth dist.	3078 Sep 17 14:12	1°  06'00	1.37670 AU
	3077 Oct 31 21:12	0° 		evening rise	3078 Sep 21 08:22	7°  55'02	
evening max el	3077 Nov 13 13:51	15°  18'54	23°59'38	desc. node	3078 Sep 30 18:04	23°  45'23	
retrograde	3077 Nov 24 13:24	21°  46'18			3078 Oct 04 18:05	0° 	
evening set	3077 Nov 29 19:02	19°  35'27		evening max el	3078 Oct 27 02:01	28°  59'00	25°15'39
asc. node	3077 Dec 03 05:43	15°  49'55			3078 Oct 28 03:34	0° 	
min. Earth dist.	3077 Dec 04 13:55	14°  03'18	0.67769 AU	retrograde	3078 Nov 08 01:25	5°  53'57	
inferior conj	3077 Dec 05 05:24	13°  10'49	0°40'32	evening set	3078 Nov 13 21:03	3°  27'55	
minimum elong	3077 Dec 05 04:27	13°  14'03	0°40'08		3078 Nov 17 03:35	30°  18'18	
morning rise	3077 Dec 10 13:53	7° 06'10		min. Earth dist.	3078 Nov 18 08:01	28° 30'12	0.67259 AU
direct	3077 Dec 14 12:54	5° 37'18		inferior conj	3078 Nov 19 10:17	27° 04'48	-0°14'08
morning max el	3077 Dec 22 13:43	10° 14'26	20°35'40	minimum elong	3078 Nov 19 10:39	27° 03'38	0°14'00
	3078 Jan 06 15:55	0°		transit middle	3078 Nov 19 10:39	27° 03'38	0°14'00
				transit begin	3078 Nov 19 09:15	27° 08'11	

transit end	3078 Nov 19 12:03	26° \mathbb{M} 59'05		inferior conj	3079 Nov 03 11:02	10° \mathbb{M} 56'15	-1°12'21
asc. node	3078 Nov 20 02:44	26° \mathbb{M} 11'37		minimum elong	3079 Nov 03 12:58	10° \mathbb{M} 50'18	1°11'32
morning rise	3078 Nov 25 00:29	21° \mathbb{M} 07'19		asc. node	3079 Nov 06 23:47	6° \mathbb{M} 58'18	
direct	3078 Nov 28 11:20	19° \mathbb{M} 58'36		morning rise	3079 Nov 09 08:49	5° \mathbb{M} 08'33	
morning max el	3078 Dec 05 16:58	24° \mathbb{M} 03'04	19°30'36	direct	3079 Nov 12 09:35	4° \mathbb{M} 16'24	
	3078 Dec 10 18:03	0° \mathbb{A}		morning max el	3079 Nov 19 03:01	7° \mathbb{M} 58'43	18°40'56
greatest brilliancy	3078 Dec 18 22:45	11° \mathbb{A} 41'47	-0.7m		3079 Dec 04 17:08	0° \mathbb{A}	
desc. node	3078 Dec 27 17:19	25° \mathbb{A} 04'09		morning set	3079 Dec 10 01:18	8° \mathbb{A} 27'00	
morning set	3078 Dec 30 07:54	29° \mathbb{A} 05'48		desc. node	3079 Dec 14 14:20	15° \mathbb{A} 38'05	
	3078 Dec 30 21:55	0° \mathbb{B}			3079 Dec 23 17:33	0° \mathbb{B}	
max. Earth dist.	3079 Jan 12 03:06	19° \mathbb{B} 05'49	1.44535 AU				
superior conj	3079 Jan 16 01:27	25° \mathbb{B} 21'20	-1°48'49	superior conj	3079 Dec 26 05:57	3° \mathbb{B} 57'03	-1°13'37
minimum elong	3079 Jan 15 17:45	24° \mathbb{B} 50'32	1°48'16	minimum elong	3079 Dec 25 21:24	3° \mathbb{B} 23'27	1°12'38
	3079 Jan 18 22:43	0° \mathbb{C}		max. Earth dist.	3079 Dec 25 20:27	3° \mathbb{B} 19'43	1.45166 AU
evening rise	3079 Jan 30 01:51	18° \mathbb{C} 21'09		evening rise	3080 Jan 10 21:36	28° \mathbb{B} 43'38	
	3079 Feb 06 00:50	0° \mathbb{D}			3080 Jan 11 16:41	0° \mathbb{C}	
asc. node	3079 Feb 16 02:02	15° \mathbb{D} 04'10		greatest brilliancy	3080 Jan 18 16:35	11° \mathbb{C} 11'48	-0.9m
evening max el	3079 Feb 18 00:06	17° \mathbb{D} 12'26	18°20'35		3080 Jan 31 19:52	0° \mathbb{D}	
retrograde	3079 Feb 24 11:21	20° \mathbb{D} 42'17		evening max el	3080 Feb 01 10:52	0° \mathbb{D} 39'31	18°51'46
evening set	3079 Feb 27 11:16	19° \mathbb{D} 53'41		asc. node	3080 Feb 02 23:03	2° \mathbb{D} 04'22	
inferior conj	3079 Mar 05 09:58	14° \mathbb{D} 28'26	3°39'47	retrograde	3080 Feb 08 05:12	4° \mathbb{D} 27'22	
minimum elong	3079 Mar 05 09:43	14° \mathbb{D} 29'10	3°39'47	evening set	3080 Feb 11 11:20	3° \mathbb{D} 26'26	
min. Earth dist.	3079 Mar 07 18:40	11° \mathbb{D} 47'31	0.63911 AU		3080 Feb 15 05:51	30° \mathbb{R} \mathbb{C}	
morning rise	3079 Mar 11 07:21	8° \mathbb{D} 20'55		inferior conj	3080 Feb 17 03:01	27° \mathbb{C} 44'02	3°30'25
direct	3079 Mar 18 04:23	5° \mathbb{D} 34'02		minimum elong	3080 Feb 17 01:25	27° \mathbb{C} 48'58	3°30'14
desc. node	3079 Mar 25 16:26	8° \mathbb{D} 14'45		min. Earth dist.	3080 Feb 18 20:10	25° \mathbb{C} 36'34	0.65513 AU
morning max el	3079 Mar 31 22:03	13° \mathbb{D} 30'13	27°35'37	morning rise	3080 Feb 22 15:07	21° \mathbb{C} 32'23	
	3079 Apr 14 05:01	0° \mathbb{E}		direct	3080 Feb 29 05:16	18° \mathbb{C} 41'02	
	3079 May 02 05:39	0° \mathbb{F}		desc. node	3080 Mar 11 13:29	24° \mathbb{C} 41'58	
morning set	3079 May 05 19:33	6° \mathbb{F} 55'31		morning max el	3080 Mar 13 07:49	26° \mathbb{C} 24'21	26°48'09
max. Earth dist.	3079 May 10 20:04	17° \mathbb{F} 09'55	1.33152 AU		3080 Mar 16 15:58	0° \mathbb{G}	
superior conj	3079 May 13 17:08	23° \mathbb{F} 15'29	-0°14'04		3080 Apr 06 19:02	0° \mathbb{E}	
minimum elong	3079 May 13 17:50	23° \mathbb{F} 19'14	0°13'54	morning set	3080 Apr 18 04:37	20° \mathbb{E} 17'43	
behind sun begin	3079 May 13 15:11	23° \mathbb{F} 05'04		max. Earth dist.	3080 Apr 22 12:12	28° \mathbb{E} 44'13	1.34349 AU
behind sun end	3079 May 13 20:29	23° \mathbb{F} 33'24			3080 Apr 23 03:17	0° \mathbb{F}	
asc. node	3079 May 15 01:22	26° \mathbb{F} 08'17		superior conj	3080 Apr 26 17:55	7° \mathbb{F} 23'37	-0°42'34
	3079 May 16 20:24	0° \mathbb{H}		minimum elong	3080 Apr 26 20:07	7° \mathbb{F} 35'06	0°42'08
evening rise	3079 May 20 20:01	8° \mathbb{H} 31'33		asc. node	3080 Apr 30 22:23	16° \mathbb{F} 10'37	
	3079 Jun 01 02:16	0° \mathbb{I}		evening rise	3080 May 04 05:46	23° \mathbb{F} 07'13	
evening max el	3079 Jun 12 00:13	14° \mathbb{I} 19'21	22°47'11		3080 May 07 14:39	0° \mathbb{H}	
desc. node	3079 Jun 21 15:40	20° \mathbb{I} 25'39		evening max el	3080 May 23 20:51	24° \mathbb{H} 59'03	21°15'43
retrograde	3079 Jun 25 06:47	20° \mathbb{I} 55'49			3080 May 31 06:24	0° \mathbb{I}	
evening set	3079 Jun 28 14:44	20° \mathbb{I} 31'26		retrograde	3080 Jun 04 20:25	0° \mathbb{I} 51'10	
min. Earth dist.	3079 Jul 06 08:36	17° \mathbb{I} 06'31	0.55367 AU	evening set	3080 Jun 07 03:26	0° \mathbb{I} 39'03	
inferior conj	3079 Jul 07 18:40	16° \mathbb{I} 17'36	-4°10'23	desc. node	3080 Jun 07 12:40	0° \mathbb{I} 34'44	
minimum elong	3079 Jul 07 10:52	16° \mathbb{I} 28'49	4°08'39		3080 Jun 09 15:44	30° \mathbb{R} \mathbb{H}	
morning rise	3079 Jul 16 09:19	12° \mathbb{I} 26'04		inferior conj	3080 Jun 16 12:42	26° \mathbb{H} 40'20	-2°34'41
direct	3079 Jul 19 07:36	12° \mathbb{I} 06'06		minimum elong	3080 Jun 16 05:44	26° \mathbb{H} 50'07	2°32'22
morning max el	3079 Jul 30 10:58	17° \mathbb{I} 16'17	20°50'02	min. Earth dist.	3080 Jun 16 20:14	26° \mathbb{H} 29'45	0.54861 AU
	3079 Aug 09 05:45	0° \mathbb{J}		morning rise	3080 Jun 25 08:24	22° \mathbb{H} 42'11	
asc. node	3079 Aug 11 00:37	3° \mathbb{J} 02'48		direct	3080 Jun 28 17:29	22° \mathbb{H} 17'28	
morning set	3079 Aug 18 19:01	18° \mathbb{J} 04'50		morning max el	3080 Jul 11 09:38	28° \mathbb{H} 18'39	22°24'02
	3079 Aug 24 12:41	0° \mathbb{K}			3080 Jul 13 02:38	0° \mathbb{I}	
superior conj	3079 Aug 26 06:19	3° \mathbb{K} 34'33	1°44'34	asc. node	3080 Jul 27 21:40	22° \mathbb{I} 13'06	
minimum elong	3079 Aug 26 05:51	3° \mathbb{K} 32'11	1°44'33		3080 Jul 31 19:28	0° \mathbb{J}	
max. Earth dist.	3079 Aug 30 22:11	12° \mathbb{K} 56'22	1.35800 AU	morning set	3080 Aug 02 05:17	2° \mathbb{J} 55'34	
evening rise	3079 Sep 04 00:14	20° \mathbb{K} 45'51		superior conj	3080 Aug 09 09:00	18° \mathbb{J} 08'07	1°38'57
	3079 Sep 09 02:52	0° \mathbb{L}		minimum elong	3080 Aug 09 07:24	17° \mathbb{J} 59'38	1°38'51
desc. node	3079 Sep 17 15:03	14° \mathbb{L} 03'59		max. Earth dist.	3080 Aug 12 14:45	24° \mathbb{J} 54'49	1.34270 AU
	3079 Sep 28 16:15	0° \mathbb{M}			3080 Aug 15 02:43	0° \mathbb{K}	
evening max el	3079 Oct 09 14:14	12° \mathbb{M} 39'09	26°20'23	evening rise	3080 Aug 17 07:29	4° \mathbb{K} 21'04	
retrograde	3079 Oct 22 08:29	19° \mathbb{M} 50'36			3080 Aug 31 21:14	0° \mathbb{L}	
evening set	3079 Oct 28 17:40	17° \mathbb{M} 13'12		desc. node	3080 Sep 03 12:02	4° \mathbb{L} 01'51	
min. Earth dist.	3079 Nov 01 21:28	12° \mathbb{M} 51'02	0.66406 AU	evening max el	3080 Sep 21 02:47	26° \mathbb{L} 12'16	27°06'12
					3080 Sep 25 14:32	0° \mathbb{M}	




































































































































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evening set	3080 Oct 11 06:40	0°♍47'21		evening set	3081 Sep 24 09:08	14°♌04'03	
	3080 Oct 12 05:09	30°♍♌		min. Earth dist.	3081 Sep 28 01:10	10°♌51'22	0.63661 AU
min. Earth dist.	3080 Oct 15 03:56	27°♌01'08	0.65207 AU	inferior conj	3081 Sep 30 15:11	8°♌13'35	-3°11'26
inferior conj	3080 Oct 17 05:32	24°♌41'26	-2°12'19	minimum elong	3081 Sep 30 20:17	8°♌00'36	3°09'44
minimum elong	3080 Oct 17 09:10	24°♌31'10	2°10'53	morning rise	3081 Oct 07 08:42	2°♌55'07	
morning rise	3080 Oct 23 12:33	19°♌06'34		direct	3081 Oct 09 20:35	2°♌24'42	
asc. node	3080 Oct 23 20:52	18°♌57'12		asc. node	3081 Oct 10 17:56	2°♌28'38	
direct	3080 Oct 26 05:36	18°♌27'05		morning max el	3081 Oct 16 10:07	5°♌50'01	17°52'06
morning max el	3080 Nov 01 17:40	21°♌56'41	18°07'50		3081 Nov 01 06:02	0°♍	
	3080 Nov 08 00:43	0°♍		morning set	3081 Nov 02 01:20	1°♍23'31	
morning set	3080 Nov 20 00:08	19°♍17'05					
	3080 Nov 26 13:08	0°♎		superior conj	3081 Nov 14 10:56	22°♍23'13	0°19'47
desc. node	3080 Nov 30 11:22	6°♎20'08		minimum elong	3081 Nov 14 13:02	22°♍31'49	0°19'29
				desc. node	3081 Nov 17 08:23	27°♍06'27	
superior conj	3080 Dec 04 10:44	12°♎40'23	-0°26'46		3081 Nov 19 03:26	0°♎	
minimum elong	3080 Dec 04 07:21	12°♎26'57	0°26'18	max. Earth dist.	3081 Nov 20 09:57	2°♎02'10	1.44232 AU
max. Earth dist.	3080 Dec 07 15:49	17°♎44'54	1.45060 AU	evening rise	3081 Nov 30 05:21	17°♎23'58	
	3080 Dec 15 11:49	0°♏			3081 Dec 08 12:15	0°♏	
evening rise	3080 Dec 20 19:39	8°♏16'21		evening max el	3081 Dec 28 19:29	27°♏41'30	20°41'38
greatest brilliancy	3081 Jan 02 17:16	28°♏04'52	-0.7m		3081 Dec 31 07:25	0°♐	
	3081 Jan 04 00:08	0°♐		retrograde	3082 Jan 06 00:25	2°♐32'16	
evening max el	3081 Jan 14 17:49	14°♐10'09	19°39'33	asc. node	3082 Jan 06 17:10	2°♐29'35	
asc. node	3081 Jan 19 20:06	17°♐57'51		evening set	3082 Jan 09 23:01	1°♐03'07	
retrograde	3081 Jan 22 02:22	18°♐25'37			3082 Jan 11 04:05	30°♐♌	
evening set	3081 Jan 25 15:57	17°♐11'11		inferior conj	3082 Jan 15 07:57	24°♏53'23	2°36'27
inferior conj	3081 Jan 31 03:13	11°♐13'47	3°08'22	minimum elong	3082 Jan 15 05:24	25°♏02'06	2°35'42
minimum elong	3081 Jan 31 00:52	11°♐21'31	3°07'53	min. Earth dist.	3082 Jan 15 21:14	24°♏07'58	0.67478 AU
min. Earth dist.	3081 Feb 01 05:40	9°♐46'37	0.66703 AU	morning rise	3082 Jan 20 11:38	18°♏34'13	
morning rise	3081 Feb 05 09:34	5°♐00'31		direct	3082 Jan 25 23:46	16°♏14'08	
direct	3081 Feb 11 11:59	2°♐17'26		morning max el	3082 Feb 06 01:30	22°♏50'23	24°11'58
morning max el	3081 Feb 23 16:58	9°♐33'39	25°36'57		3082 Feb 12 08:45	0°♐	
desc. node	3081 Feb 26 10:33	12°♐28'39		desc. node	3082 Feb 13 07:36	1°♐11'33	
	3081 Mar 11 20:31	0°♑			3082 Mar 05 05:02	0°♑	
	3081 Mar 30 08:43	0°♑		morning set	3082 Mar 13 20:28	14°♑23'40	
morning set	3081 Mar 31 22:48	2°♑52'13		max. Earth dist.	3082 Mar 17 13:44	20°♑57'34	1.38012 AU
max. Earth dist.	3081 Apr 04 16:57	9°♑51'49	1.36003 AU		3082 Mar 22 11:45	0°♑	
superior conj	3081 Apr 10 10:26	21°♑02'59	-1°10'45	superior conj	3082 Mar 24 15:16	4°♑04'20	-1°36'25
minimum elong	3081 Apr 10 14:05	21°♑21'14	1°10'10	minimum elong	3082 Mar 24 19:46	4°♑25'54	1°35'52
	3081 Apr 14 20:19	0°♒		evening rise	3082 Apr 02 11:02	21°♑21'34	
asc. node	3081 Apr 17 19:25	6°♒03'47		asc. node	3082 Apr 04 16:28	25°♑43'15	
evening rise	3081 Apr 18 11:36	7°♒26'14			3082 Apr 06 22:08	0°♒	
	3081 May 01 00:25	0°♒		evening max el	3082 Apr 19 00:43	18°♒10'49	19°02'12
evening max el	3081 May 06 05:01	6°♒14'29	19°59'15	retrograde	3082 Apr 27 16:17	22°♒23'22	
retrograde	3081 May 16 11:21	11°♒13'26		evening set	3082 Apr 29 19:04	22°♒09'16	
evening set	3081 May 18 11:00	11°♒03'04		inferior conj	3082 May 07 23:16	17°♒55'05	1°13'14
desc. node	3081 May 25 09:43	8°♒14'29		minimum elong	3082 May 08 02:01	17°♒50'19	1°12'18
inferior conj	3081 May 27 09:57	7°♒03'05	-0°35'28	min. Earth dist.	3082 May 11 00:39	15°♒48'19	0.56656 AU
minimum elong	3081 May 27 08:18	7°♒05'33	0°34'51	desc. node	3082 May 12 06:45	14°♒59'42	
min. Earth dist.	3081 May 29 09:09	5°♒51'56	0.55326 AU	morning rise	3082 May 16 05:50	12°♒56'32	
morning rise	3081 Jun 05 03:43	2°♒39'44		direct	3082 May 21 08:50	11°♒54'36	
direct	3081 Jun 09 07:00	2°♒02'18		morning max el	3082 Jun 04 15:39	19°♒16'25	25°43'50
morning max el	3081 Jun 23 01:04	8°♒49'46	24°06'44		3082 Jun 13 17:06	0°♒	
	3081 Jul 08 13:36	0°♓			3082 Jun 30 21:06	0°♓	
asc. node	3081 Jul 14 18:42	11°♓46'46		asc. node	3082 Jul 01 15:45	1°♓37'19	
morning set	3081 Jul 17 16:59	17°♓50'26		morning set	3082 Jul 02 04:31	2°♓44'31	
	3081 Jul 23 08:22	0°♑					
				superior conj	3082 Jul 09 03:35	17°♓51'44	1°11'37
superior conj	3081 Jul 24 16:49	2°♑56'02	1°27'40	minimum elong	3082 Jul 09 01:14	17°♓38'48	1°11'15
minimum elong	3081 Jul 24 14:35	2°♑43'57	1°27'25	max. Earth dist.	3082 Jul 10 00:51	19°♓48'21	1.32428 AU
max. Earth dist.	3081 Jul 26 16:27	7°♑12'43	1.33143 AU		3082 Jul 14 18:16	0°♑	
evening rise	3081 Aug 01 01:59	18°♑28'36		evening rise	3082 Jul 16 04:27	2°♑58'57	
	3081 Aug 07 00:47	0°♒			3082 Jul 30 20:16	0°♒	
desc. node	3081 Aug 21 09:03	23°♒29'36		desc. node	3082 Aug 08 06:05	12°♒14'44	
	3081 Aug 26 04:32	0°♓		evening max el	3082 Aug 16 21:34	22°♒04'11	27°14'34
evening max el	3081 Sep 03 14:03	9°♓25'06	27°26'04	retrograde	3082 Aug 30 17:34	29°♒18'32	

evening set	3082 Sep 06 21:16	26° \mathbb{M} 57'00		evening set	3083 Aug 19 14:23	9° \mathbb{M} 18'07	
min. Earth dist.	3082 Sep 10 11:49	24° \mathbb{M} 10'06	0.61809 AU	min. Earth dist.	3083 Aug 23 12:19	6° \mathbb{M} 42'27	0.59759 AU
inferior conj	3082 Sep 13 12:55	21° \mathbb{M} 25'15	-4°05'26	inferior conj	3083 Aug 26 19:13	4° \mathbb{M} 07'01	-4°47'10
minimum elong	3082 Sep 13 18:35	21° \mathbb{M} 12'24	4°04'02	minimum elong	3083 Aug 26 23:33	3° \mathbb{M} 58'25	4°46'35
morning rise	3082 Sep 20 17:36	16° \mathbb{M} 26'37			3083 Sep 02 01:57	30° \mathbb{R} 02	
direct	3082 Sep 23 03:00	16° \mathbb{M} 02'13		morning rise	3083 Sep 03 10:49	29° \mathbb{J} 30'42	
asc. node	3082 Sep 27 14:59	17° \mathbb{M} 31'41		direct	3083 Sep 05 20:37	29° \mathbb{J} 09'47	
morning max el	3082 Sep 30 01:20	19° \mathbb{M} 31'39	17°54'36		3083 Sep 09 11:44	0° \mathbb{M}	
	3082 Oct 07 17:58	0° \mathbb{L}		morning max el	3083 Sep 13 12:04	2° \mathbb{M} 52'42	18°16'34
morning set	3082 Oct 15 22:30	14° \mathbb{L} 26'51		asc. node	3083 Sep 14 12:00	3° \mathbb{M} 53'41	
	3082 Oct 24 14:48	0° \mathbb{M}		morning set	3083 Sep 29 09:58	28° \mathbb{M} 10'51	
					3083 Sep 30 08:57	0° \mathbb{L}	
superior conj	3082 Oct 26 14:05	3° \mathbb{M} 25'31	0°57'28	superior conj	3083 Oct 08 17:45	15° \mathbb{L} 39'36	1°23'40
minimum elong	3082 Oct 26 18:22	3° \mathbb{M} 44'00	0°56'56	minimum elong	3083 Oct 08 21:33	15° \mathbb{L} 56'53	1°23'17
max. Earth dist.	3082 Nov 02 23:40	15° \mathbb{M} 52'24	1.42785 AU	max. Earth dist.	3083 Oct 16 07:43	29° \mathbb{L} 02'04	1.40905 AU
desc. node	3082 Nov 04 05:25	17° \mathbb{M} 53'52			3083 Oct 16 21:21	0° \mathbb{M}	
evening rise	3082 Nov 09 18:40	26° \mathbb{M} 46'08		evening rise	3083 Oct 21 01:54	6° \mathbb{M} 58'53	
	3082 Nov 11 20:19	0° \mathbb{X}		desc. node	3083 Oct 22 02:27	8° \mathbb{M} 38'57	
	3082 Dec 02 08:52	0° \mathbb{Z}			3083 Nov 04 23:53	0° \mathbb{X}	
evening max el	3082 Dec 11 15:30	11° \mathbb{Z} 13'40	21°54'37	evening max el	3083 Nov 24 06:59	24° \mathbb{X} 48'44	23°13'50
retrograde	3082 Dec 20 21:24	16° \mathbb{Z} 43'53			3083 Nov 30 23:01	0° \mathbb{Z}	
asc. node	3082 Dec 24 14:13	15° \mathbb{Z} 29'41		retrograde	3083 Dec 04 15:47	0° \mathbb{Z} 57'17	
evening set	3082 Dec 25 06:44	14° \mathbb{Z} 58'57			3083 Dec 08 01:21	30° \mathbb{R} 02	
inferior conj	3082 Dec 30 15:05	8° \mathbb{Z} 40'17	1°56'30	evening set	3083 Dec 09 13:30	28° \mathbb{X} 56'00	
minimum elong	3082 Dec 30 12:49	8° \mathbb{Z} 48'09	1°55'42	asc. node	3083 Dec 11 11:14	27° \mathbb{X} 02'38	
min. Earth dist.	3082 Dec 30 16:37	8° \mathbb{Z} 35'01	0.67866 AU	inferior conj	3083 Dec 14 22:45	22° \mathbb{X} 32'17	1°09'56
morning rise	3083 Jan 04 18:46	2° \mathbb{Z} 28'43		minimum elong	3083 Dec 14 21:12	22° \mathbb{X} 37'37	1°09'19
direct	3083 Jan 09 15:53	0° \mathbb{Z} 24'18		min. Earth dist.	3083 Dec 14 13:24	23° \mathbb{X} 04'25	0.67895 AU
morning max el	3083 Jan 19 11:34	6° \mathbb{Z} 12'54	22°43'08	morning rise	3083 Dec 20 04:48	16° \mathbb{X} 24'18	
desc. node	3083 Jan 31 04:39	20° \mathbb{Z} 34'40		direct	3083 Dec 24 11:33	14° \mathbb{X} 42'39	
	3083 Feb 06 19:41	0° \mathbb{X}		morning max el	3084 Jan 02 02:38	19° \mathbb{X} 44'09	21°19'14
morning set	3083 Feb 22 15:29	24° \mathbb{X} 36'10			3084 Jan 10 15:09	0° \mathbb{Z}	
	3083 Feb 25 21:11	0° \mathbb{X}		desc. node	3084 Jan 18 01:41	10° \mathbb{Z} 27'00	
max. Earth dist.	3083 Feb 27 09:23	2° \mathbb{X} 33'40	1.40176 AU		3084 Jan 31 00:40	0° \mathbb{X}	
superior conj	3083 Mar 07 03:57	16° \mathbb{X} 16'00	-1°56'23	morning set	3084 Feb 02 05:48	3° \mathbb{X} 28'20	
minimum elong	3083 Mar 07 07:54	16° \mathbb{X} 33'54	1°56'06	max. Earth dist.	3084 Feb 09 10:24	15° \mathbb{X} 02'36	1.42219 AU
	3083 Mar 14 13:00	0° \mathbb{Y}		superior conj	3084 Feb 16 19:29	27° \mathbb{X} 26'54	-2°06'11
evening rise	3083 Mar 17 00:53	4° \mathbb{Y} 44'09		minimum elong	3084 Feb 16 20:21	27° \mathbb{X} 30'39	2°06'11
asc. node	3083 Mar 22 13:31	15° \mathbb{Y} 02'44			3084 Feb 18 06:54	0° \mathbb{X}	
	3083 Apr 01 12:54	0° \mathbb{X}		evening rise	3084 Feb 28 01:26	17° \mathbb{X} 25'53	
evening max el	3083 Apr 02 05:18	0° \mathbb{X} 41'36	18°25'22		3084 Mar 06 02:15	0° \mathbb{Y}	
retrograde	3083 Apr 09 15:54	4° \mathbb{X} 22'18		asc. node	3084 Mar 08 10:33	3° \mathbb{Y} 55'48	
evening set	3083 Apr 12 00:57	4° \mathbb{X} 00'52		evening max el	3084 Mar 15 15:30	13° \mathbb{Y} 38'32	18°08'25
	3083 Apr 18 17:37	30° \mathbb{R} 00		retrograde	3084 Mar 22 08:45	17° \mathbb{Y} 03'29	
inferior conj	3083 Apr 19 09:48	29° \mathbb{Y} 27'16	2°31'48	evening set	3084 Mar 24 23:57	16° \mathbb{Y} 32'22	
minimum elong	3083 Apr 19 13:36	29° \mathbb{Y} 19'31	2°30'49	inferior conj	3084 Mar 31 16:30	11° \mathbb{Y} 38'03	3°18'04
min. Earth dist.	3083 Apr 22 20:24	26° \mathbb{Y} 40'24	0.58578 AU	minimum elong	3084 Mar 31 19:06	11° \mathbb{Y} 31'54	3°17'40
morning rise	3083 Apr 26 23:17	23° \mathbb{Y} 57'22		min. Earth dist.	3084 Apr 03 22:31	8° \mathbb{Y} 35'20	0.60746 AU
desc. node	3083 Apr 29 03:48	23° \mathbb{Y} 00'32		morning rise	3084 Apr 07 12:13	5° \mathbb{Y} 47'14	
direct	3083 May 03 00:56	22° \mathbb{Y} 20'50		direct	3084 Apr 14 05:03	3° \mathbb{Y} 35'26	
	3083 May 17 08:39	0° \mathbb{X}		desc. node	3084 Apr 15 00:50	3° \mathbb{Y} 37'22	
morning max el	3083 May 17 10:23	0° \mathbb{X} 04'12	26°59'44	morning max el	3084 Apr 28 11:13	11° \mathbb{Y} 29'44	27°42'49
	3083 Jun 07 15:07	0° \mathbb{I}			3084 May 12 23:34	0° \mathbb{X}	
morning set	3083 Jun 16 14:10	17° \mathbb{I} 31'12			3084 May 29 19:50	0° \mathbb{I}	
asc. node	3083 Jun 18 12:47	21° \mathbb{I} 38'28		morning set	3084 May 30 20:09	2° \mathbb{I} 04'37	
	3083 Jun 22 08:55	0° \mathbb{L}		asc. node	3084 Jun 04 09:49	11° \mathbb{I} 45'39	
superior conj	3083 Jun 23 15:23	2° \mathbb{L} 47'50	0°51'32	max. Earth dist.	3084 Jun 05 23:36	15° \mathbb{I} 11'13	1.32191 AU
minimum elong	3083 Jun 23 13:23	2° \mathbb{L} 36'45	0°51'09	superior conj	3084 Jun 07 02:31	17° \mathbb{I} 38'36	0°28'05
max. Earth dist.	3083 Jun 23 12:28	2° \mathbb{L} 31'45	1.32110 AU	minimum elong	3084 Jun 07 01:16	17° \mathbb{I} 31'49	0°27'49
evening rise	3083 Jun 30 12:07	17° \mathbb{L} 42'44			3084 Jun 12 18:13	0° \mathbb{L}	
	3083 Jul 06 14:27	0° \mathbb{L}		evening rise	3084 Jun 13 22:50	2° \mathbb{L} 32'59	
desc. node	3083 Jul 26 03:06	29° \mathbb{L} 58'58			3084 Jun 28 17:35	0° \mathbb{L}	
	3083 Jul 26 03:28	0° \mathbb{M}		evening max el	3084 Jul 10 17:04	15° \mathbb{L} 06'19	25°15'39
evening max el	3083 Jul 29 22:53	3° \mathbb{M} 58'31	26°29'51	desc. node	3084 Jul 12 00:06	16° \mathbb{L} 17'42	
retrograde	3083 Aug 12 22:12	11° \mathbb{M} 09'54					

retrograde	3084 Jul 24 16:46	22°♎12'17			3085 Jun 04 16:10	0°♊	
evening set	3084 Jul 30 08:10	20°♎58'49		evening max el	3085 Jun 22 06:41	25°♊40'26	23°42'52
min. Earth dist.	3084 Aug 04 04:56	18°♎16'06	0.57739 AU		3085 Jun 27 17:55	0°♎	
inferior conj	3084 Aug 07 06:47	16°♎09'52	-5°05'12	desc. node	3085 Jun 28 21:06	0°♎38'40	
minimum elong	3084 Aug 07 07:01	16°♎09'28	5°05'11	retrograde	3085 Jul 05 23:00	2°♎32'09	
morning rise	3084 Aug 15 08:17	11°♎55'51		evening set	3085 Jul 10 03:31	1°♎53'39	
direct	3084 Aug 17 21:22	11°♎36'26			3085 Jul 14 14:03	30°♊	
morning max el	3084 Aug 26 15:02	15°♎43'36	18°59'19	min. Earth dist.	3085 Jul 16 16:56	28°♊48'04	0.56055 AU
asc. node	3084 Aug 31 09:02	21°♎19'37		inferior conj	3085 Jul 18 22:13	27°♊27'51	-4°44'32
	3084 Sep 05 18:43	0°♏		minimum elong	3085 Jul 18 16:42	27°♊36'12	4°43'45
morning set	3084 Sep 12 07:24	12°♏23'41		morning rise	3085 Jul 27 08:26	23°♊31'37	
				direct	3085 Jul 30 03:06	23°♊12'11	
superior conj	3084 Sep 20 16:31	28°♏49'53	1°38'54	morning max el	3085 Aug 09 07:30	27°♊55'41	20°03'41
minimum elong	3084 Sep 20 18:41	29°♏00'15	1°38'46		3085 Aug 11 08:17	0°♎	
	3084 Sep 21 07:11	0°♎		asc. node	3085 Aug 18 06:05	9°♎35'36	
max. Earth dist.	3084 Sep 27 12:04	11°♎29'30	1.38841 AU	morning set	3085 Aug 27 11:42	26°♎57'14	
evening rise	3084 Oct 01 08:43	18°♎16'47			3085 Aug 28 23:33	0°♏	
desc. node	3084 Oct 07 23:27	29°♎17'33					
	3084 Oct 08 10:01	0°♏		superior conj	3085 Sep 04 05:19	12°♏42'28	1°44'47
	3084 Oct 29 07:57	0°♏		minimum elong	3085 Sep 04 05:43	12°♏44'32	1°44'46
evening max el	3084 Nov 05 19:54	8°♏27'38	24°33'04	max. Earth dist.	3085 Sep 09 17:36	23°♏29'08	1.36841 AU
retrograde	3084 Nov 17 06:14	15°♏07'58			3085 Sep 13 05:36	0°♎	
evening set	3084 Nov 22 17:41	12°♏50'41		evening rise	3085 Sep 13 13:46	0°♎37'10	
asc. node	3084 Nov 27 08:16	7°♏35'51		desc. node	3085 Sep 24 20:27	19°♎45'32	
min. Earth dist.	3084 Nov 27 09:11	7°♏32'49	0.67586 AU		3085 Oct 01 14:20	0°♏	
inferior conj	3084 Nov 28 05:08	6°♏26'14	0°17'52	evening max el	3085 Oct 19 08:11	22°♏09'24	25°45'06
minimum elong	3084 Nov 28 04:41	6°♏27'42	0°17'41	retrograde	3085 Oct 31 16:02	29°♏11'53	
morning rise	3084 Dec 03 15:46	0°♏24'05		evening set	3085 Nov 06 17:37	26°♏40'34	
	3084 Dec 04 06:22	30°♏		min. Earth dist.	3085 Nov 11 01:33	21°♏57'54	0.66941 AU
direct	3084 Dec 07 09:25	29°♏04'00		inferior conj	3085 Nov 12 08:29	20°♏19'46	-0°38'29
	3084 Dec 10 17:04	0°♏		minimum elong	3085 Nov 12 09:30	20°♏16'34	0°38'03
morning max el	3084 Dec 15 01:10	3°♏25'58	20°06'13	asc. node	3085 Nov 14 05:18	18°♏01'29	
desc. node	3085 Jan 03 22:42	0°♏39'54		morning rise	3085 Nov 18 01:42	14°♏26'07	
	3085 Jan 03 12:09	0°♏		direct	3085 Nov 21 08:06	13°♏24'44	
morning set	3085 Jan 11 02:26	11°♏36'33		morning max el	3085 Nov 28 07:29	17°♏18'07	19°07'33
max. Earth dist.	3085 Jan 21 19:25	28°♏25'21	1.43862 AU		3085 Dec 08 01:42	0°♏	
	3085 Jan 22 19:02	0°♏		morning set	3085 Dec 21 06:10	20°♏14'52	
				desc. node	3085 Dec 21 19:45	21°♏07'44	
superior conj	3085 Jan 27 09:27	7°♏27'33	-2°00'40		3085 Dec 27 12:14	0°♏	
minimum elong	3085 Jan 27 04:47	7°♏08'24	2°00'27	max. Earth dist.	3086 Jan 04 11:07	12°♏28'05	1.44897 AU
evening rise	3085 Feb 09 08:18	29°♏17'34					
	3085 Feb 09 18:08	0°♏		superior conj	3086 Jan 06 22:59	16°♏24'24	-1°35'58
asc. node	3085 Feb 23 07:34	22°♏13'40		minimum elong	3086 Jan 06 14:02	15°♏49'03	1°35'08
evening max el	3085 Feb 27 04:03	26°♏52'21	18°10'46		3086 Jan 15 11:00	0°♏	
	3085 Mar 03 19:58	0°♏		evening rise	3086 Jan 21 17:33	10°♏13'27	
retrograde	3085 Mar 05 14:39	0°♏16'24			3086 Feb 02 22:26	0°♏	
	3085 Mar 07 09:23	30°♏		asc. node	3086 Feb 10 04:35	9°♏45'59	
evening set	3085 Mar 08 11:29	29°♏34'16		evening max el	3086 Feb 10 16:10	10°♏16'07	18°31'41
inferior conj	3085 Mar 14 15:38	24°♏19'48	3°37'48	retrograde	3086 Feb 17 05:20	13°♏52'10	
minimum elong	3085 Mar 14 16:22	24°♏17'49	3°37'46	evening set	3086 Feb 20 07:53	12°♏58'16	
min. Earth dist.	3085 Mar 17 09:02	21°♏25'37	0.62839 AU	inferior conj	3086 Feb 26 03:12	7°♏25'13	3°37'34
morning rise	3085 Mar 20 20:09	18°♏16'51		minimum elong	3086 Feb 26 02:19	7°♏27'52	3°37'31
direct	3085 Mar 27 18:15	15°♏39'03		min. Earth dist.	3086 Feb 28 05:09	4°♏57'39	0.64644 AU
desc. node	3085 Apr 01 21:52	16°♏55'02		morning rise	3086 Mar 03 20:13	1°♏15'40	
morning max el	3085 Apr 10 17:27	23°♏36'07	27°48'37		3086 Mar 05 13:10	30°♏	
	3085 Apr 16 10:57	0°♏		direct	3086 Mar 10 14:59	28°♏25'32	
	3085 May 06 06:29	0°♏			3086 Mar 16 04:21	0°♏	
morning set	3085 May 14 20:19	16°♏17'46		desc. node	3086 Mar 19 18:55	2°♏23'26	
max. Earth dist.	3085 May 20 06:29	27°♏34'31	1.32681 AU	morning max el	3086 Mar 24 02:54	6°♏17'01	27°18'57
	3085 May 21 09:37	0°♏			3086 Apr 11 06:57	0°♏	
				morning set	3086 Apr 28 11:57	0°♏01'55	
superior conj	3085 May 22 11:13	2°♏18'07	0°01'56		3086 Apr 28 11:33	0°♏	
minimum elong	3085 May 22 11:08	2°♏17'38	0°01'54	max. Earth dist.	3086 May 03 05:14	9°♏30'03	1.33611 AU
behind sun begin	3085 May 22 05:56	1°♏49'32					
behind sun end	3085 May 22 16:19	2°♏45'45		superior conj	3086 May 06 15:34	16°♏39'52	-0°26'05
asc. node	3085 May 22 06:51	1°♏54'28		minimum elong	3086 May 06 16:54	16°♏46'54	0°25'48
evening rise	3085 May 29 10:40	17°♏23'07		asc. node	3086 May 09 03:53	22°♏00'41	

	3086 May 12 21:49	0°♂		asc. node	3087 Apr 26 00:57	12°♂00'15	
evening rise	3086 May 13 21:47	2°♂06'22		evening rise	3087 Apr 28 06:13	16°♂36'38	
	3086 May 29 14:51	0°♂			3087 May 05 01:36	0°♂	
evening max el	3086 Jun 03 22:26	6°♂08'35	22°06'49	evening max el	3087 May 16 23:38	17°♂02'12	20°40'57
desc. node	3086 Jun 15 18:07	12°♂26'16		retrograde	3087 May 28 06:33	22°♂32'29	
retrograde	3086 Jun 16 17:26	12°♂28'26		evening set	3087 May 30 08:17	22°♂22'05	
evening set	3086 Jun 19 12:56	12°♂10'51		desc. node	3087 Jun 02 15:08	21°♂26'44	
min. Earth dist.	3086 Jun 28 03:48	8°♂29'08	0.55039 AU	inferior conj	3087 Jun 08 14:45	18°♂24'28	-1°44'58
inferior conj	3086 Jun 28 21:06	8°♂04'52	-3°34'41	minimum elong	3087 Jun 08 09:49	18°♂31'33	1°43'11
minimum elong	3086 Jun 28 12:51	8°♂16'27	3°32'24	min. Earth dist.	3087 Jun 09 16:03	17°♂48'11	0.54940 AU
morning rise	3086 Jul 07 14:31	4°♂13'27		morning rise	3087 Jun 17 10:44	14°♂17'28	
direct	3086 Jul 10 16:46	3°♂52'08		direct	3087 Jun 21 02:12	13°♂48'50	
morning max el	3086 Jul 22 12:20	9°♂23'03	21°28'19	morning max el	3087 Jul 04 07:31	20°♂11'00	23°07'22
asc. node	3086 Aug 05 03:08	28°♂28'58			3087 Jul 12 13:55	0°♂	
	3086 Aug 05 22:49	0°♂		asc. node	3087 Jul 23 00:13	17°♂50'21	
morning set	3086 Aug 11 20:22	11°♂43'37		morning set	3087 Jul 27 07:28	26°♂37'04	
					3087 Jul 28 21:47	0°♂	
superior conj	3086 Aug 19 03:55	27°♂04'13	1°42'57	superior conj	3087 Aug 03 09:08	11°♂45'23	1°34'48
minimum elong	3086 Aug 19 02:54	26°♂58'59	1°42'55	minimum elong	3087 Aug 03 07:12	11°♂35'02	1°34'38
	3086 Aug 20 13:53	0°♂		max. Earth dist.	3087 Aug 06 01:33	17°♂27'05	1.33740 AU
max. Earth dist.	3086 Aug 23 05:11	5°♂21'50	1.35102 AU	evening rise	3087 Aug 11 01:15	27°♂38'45	
evening rise	3086 Aug 27 12:44	13°♂48'21			3087 Aug 12 05:58	0°♂	
	3086 Sep 05 13:27	0°♂		desc. node	3087 Aug 29 14:28	29°♂42'53	
desc. node	3086 Sep 11 17:28	9°♂56'29			3087 Aug 29 19:07	0°♂	
	3086 Sep 26 10:33	0°♂		evening max el	3087 Sep 14 08:29	19°♂12'28	27°18'03
evening max el	3086 Oct 01 20:30	5°♂47'19	26°42'32	retrograde	3087 Sep 27 19:43	26°♂31'04	
retrograde	3086 Oct 14 20:39	13°♂02'12		evening set	3087 Oct 04 20:13	23°♂48'55	
evening set	3086 Oct 21 11:18	10°♂21'28		min. Earth dist.	3087 Oct 08 14:52	20°♂17'41	0.64590 AU
min. Earth dist.	3086 Oct 25 12:10	6°♂14'59	0.65943 AU	inferior conj	3087 Oct 10 21:53	17°♂48'54	-2°37'43
inferior conj	3086 Oct 27 06:50	4°♂08'49	-1°37'41	minimum elong	3087 Oct 11 02:12	17°♂37'13	2°36'08
minimum elong	3086 Oct 27 09:30	4°♂00'56	1°36'35	morning rise	3087 Oct 17 09:18	12°♂20'51	
	3086 Oct 31 03:49	30°♂		asc. node	3087 Oct 18 23:26	11°♂51'09	
asc. node	3086 Nov 01 02:21	29°♂14'21		direct	3087 Oct 19 23:43	11°♂45'47	
morning rise	3086 Nov 02 08:24	28°♂26'29		morning max el	3087 Oct 26 11:42	15°♂12'44	17°58'58
direct	3086 Nov 05 05:36	27°♂40'12			3087 Nov 05 23:43	0°♂	
	3086 Nov 10 11:03	0°♂		morning set	3087 Nov 12 22:32	11°♂37'50	
morning max el	3086 Nov 11 19:52	1°♂15'44	18°24'51		3087 Nov 24 00:44	0°♂	
morning set	3086 Dec 01 11:51	0°♂		desc. node	3087 Nov 25 13:48	2°♂29'48	
	3086 Dec 01 08:27	0°♂					
desc. node	3086 Dec 08 16:47	11°♂45'41		superior conj	3087 Nov 26 12:04	3°♂59'23	-0°06'20
				minimum elong	3087 Nov 26 11:18	3°♂56'20	0°06'14
superior conj	3086 Dec 17 00:49	24°♂55'30	-0°54'27	behind sun begin	3087 Nov 26 01:36	3°♂17'21	
minimum elong	3086 Dec 16 17:59	24°♂28'40	0°53'35	behind sun end	3087 Nov 26 21:00	4°♂35'15	
max. Earth dist.	3086 Dec 18 05:56	26°♂49'49	1.45208 AU	max. Earth dist.	3087 Dec 01 00:34	11°♂11'35	1.44782 AU
	3086 Dec 20 06:26	0°♂		evening rise	3087 Dec 12 18:33	29°♂30'15	
evening rise	3087 Jan 02 03:32	20°♂13'17			3087 Dec 13 02:16	0°♂	
	3087 Jan 08 08:32	0°♂		greatest brilliancy	3087 Dec 27 03:52	21°♂19'23	-0.6m
greatest brilliancy	3087 Jan 12 08:25	6°♂14'28	-0.8m		3088 Jan 02 06:28	0°♂	
evening max el	3087 Jan 25 01:27	23°♂44'56	19°10'10	evening max el	3088 Jan 08 06:10	7°♂15'25	20°04'27
asc. node	3087 Jan 28 01:38	26°♂19'53		asc. node	3088 Jan 14 22:41	11°♂40'03	
retrograde	3087 Feb 01 01:06	27°♂43'51		retrograde	3088 Jan 15 22:57	11°♂45'40	
evening set	3087 Feb 04 10:11	26°♂37'19		evening set	3088 Jan 19 16:03	10°♂25'19	
inferior conj	3087 Feb 09 23:40	20°♂47'59	3°22'28	inferior conj	3088 Jan 25 02:05	4°♂22'19	2°55'57
minimum elong	3087 Feb 09 21:42	20°♂54'18	3°22'09	minimum elong	3088 Jan 24 23:36	4°♂30'42	2°55'20
min. Earth dist.	3087 Feb 11 10:20	18°♂57'18	0.66061 AU	min. Earth dist.	3088 Jan 25 22:48	3°♂12'40	0.67072 AU
morning rise	3087 Feb 15 08:55	14°♂35'12			3088 Jan 28 11:50	30°♂	
direct	3087 Feb 21 18:20	11°♂46'15		morning rise	3088 Jan 30 06:55	28°♂08'38	
morning max el	3087 Mar 06 12:51	19°♂20'18	26°20'22	direct	3088 Feb 05 03:24	25°♂31'47	
desc. node	3087 Mar 06 15:59	19°♂28'12			3088 Feb 14 04:31	0°♂	
	3087 Mar 15 14:54	0°♂		morning max el	3088 Feb 16 21:37	2°♂33'19	25°01'56
	3087 Apr 04 08:08	0°♂		desc. node	3088 Feb 21 13:01	7°♂41'01	
morning set	3087 Apr 11 15:24	13°♂06'36			3088 Mar 08 18:34	0°♂	
max. Earth dist.	3087 Apr 15 16:48	20°♂53'20	1.34998 AU	morning set	3088 Mar 24 01:37	25°♂16'34	
	3087 Apr 20 05:56	0°♂			3088 Mar 26 16:15	0°♂	
				max. Earth dist.	3088 Mar 27 17:07	1°♂54'38	1.36815 AU
superior conj	3087 Apr 20 13:15	0°♂37'22	-0°54'40				
minimum elong	3087 Apr 20 16:06	0°♂51'58	0°54'08				

superior conj	3088 Apr 03 01:14	14°♊01'37	-1°22'07			3089 Mar 01 18:32	0°♋	
minimum elong	3088 Apr 03 05:21	14°♊21'53	1°21'30	morning set		3089 Mar 05 12:32	6°♋15'25	
evening rise	3088 Apr 11 09:38	0°♋46'11		max. Earth dist.		3089 Mar 09 11:59	13°♋07'15	1.38930 AU
	3088 Apr 11 00:26	0°♋						
asc. node	3088 Apr 11 21:59	1°♋48'11		superior conj		3089 Mar 16 23:45	26°♋43'10	-1°45'49
evening max el	3088 Apr 28 12:57	28°♋35'34	19°32'35	minimum elong		3089 Mar 17 04:15	27°♋04'15	1°45'22
	3088 Apr 30 02:48	0°♊				3089 Mar 18 17:31	0°♊	
retrograde	3088 May 08 02:02	3°♊13'07		evening rise		3089 Mar 26 05:20	14°♊28'01	
evening set	3088 May 10 02:08	3°♊01'47		asc. node		3089 Mar 29 19:01	21°♊19'36	
	3088 May 17 01:42	30°♋♊				3089 Apr 03 14:38	0°♋	
inferior conj	3088 May 18 17:41	28°♋57'18	0°13'29	evening max el		3089 Apr 11 12:53	10°♋47'38	18°44'07
minimum elong	3088 May 18 18:16	28°♋56'22	0°13'16	retrograde		3089 Apr 19 14:26	14°♋44'08	
transit middle	3088 May 18 18:16	28°♋56'22	0°13'16	evening set		3089 Apr 21 19:59	14°♋27'10	
transit begin	3088 May 18 16:06	28°♋59'51		inferior conj		3089 Apr 29 15:44	10°♋05'11	1°50'40
transit end	3088 May 18 20:27	28°♋52'54		minimum elong		3089 Apr 29 19:19	9°♋58'32	1°49'33
desc. node	3088 May 19 12:12	28°♋27'40		min. Earth dist.		3089 May 02 23:09	7°♋38'51	0.57427 AU
min. Earth dist.	3088 May 21 06:16	27°♋21'01	0.55799 AU	desc. node		3089 May 06 09:14	5°♋29'43	
morning rise	3088 May 27 07:40	24°♋18'55		morning rise		3089 May 07 15:29	4°♋52'35	
direct	3088 May 31 20:44	23°♋32'24		direct		3089 May 13 05:02	3°♋36'30	
	3088 Jun 14 06:01	0°♊		morning max el		3089 May 27 13:24	11°♋08'27	26°19'28
morning max el	3088 Jun 14 21:51	0°♊36'58	24°49'31			3089 Jun 11 02:24	0°♊	
	3088 Jul 05 02:31	0°♋		morning set		3089 Jun 25 06:12	26°♊23'28	
asc. node	3088 Jul 08 21:16	7°♋31'53		asc. node		3089 Jun 25 18:17	27°♊27'24	
morning set	3088 Jul 10 19:18	11°♋32'08				3089 Jun 26 22:52	0°♋	
superior conj	3088 Jul 17 18:28	26°♋37'39	1°21'24	superior conj		3089 Jul 02 05:52	11°♋34'06	1°03'34
minimum elong	3088 Jul 17 16:07	26°♋24'52	1°21'05	minimum elong		3089 Jul 02 03:36	11°♋21'38	1°03'10
	3088 Jul 19 07:41	0°♌		max. Earth dist.		3089 Jul 02 16:32	12°♋32'50	1.32249 AU
max. Earth dist.	3088 Jul 19 06:17	29°♋52'21	1.32790 AU	evening rise		3089 Jul 09 04:29	26°♋34'35	
evening rise	3088 Jul 24 23:31	11°♌57'23				3089 Jul 10 20:12	0°♌	
	3088 Aug 03 10:50	0°♎				3089 Jul 27 23:02	0°♎	
desc. node	3088 Aug 15 11:29	18°♎54'31		desc. node		3089 Aug 02 08:31	7°♎16'25	
	3088 Aug 24 13:14	0°♌		evening max el		3089 Aug 08 23:59	14°♎35'10	26°59'39
evening max el	3088 Aug 26 18:34	2°♌13'05	27°25'15	retrograde		3089 Aug 22 21:31	21°♎47'29	
retrograde	3088 Sep 09 12:24	9°♌29'29		evening set		3089 Aug 29 21:48	19°♎37'30	
evening set	3088 Sep 16 17:09	6°♌57'03		min. Earth dist.		3089 Sep 02 14:15	16°♎57'15	0.60951 AU
min. Earth dist.	3088 Sep 20 07:55	3°♌56'23	0.62901 AU	inferior conj		3089 Sep 05 18:34	14°♎14'29	-4°25'15
inferior conj	3088 Sep 23 02:55	1°♌13'55	-3°35'20	minimum elong		3089 Sep 05 23:58	14°♎02'54	4°24'09
minimum elong	3088 Sep 23 08:25	1°♌00'32	3°33'42	morning rise		3089 Sep 13 03:55	9°♎24'46	
	3088 Sep 24 09:47	30°♋♎		direct		3089 Sep 15 13:12	9°♎02'02	
morning rise	3088 Sep 30 01:09	26°♎03'21		asc. node		3089 Sep 21 17:31	11°♎41'06	
direct	3088 Oct 02 11:30	25°♎35'57		morning max el		3089 Sep 22 17:40	12°♎36'05	18°01'25
asc. node	3088 Oct 04 20:29	26°♎02'45				3089 Oct 04 10:01	0°♌	
morning max el	3088 Oct 09 04:01	29°♎02'23	17°50'48	morning set		3089 Oct 08 12:59	7°♌34'03	
	3088 Oct 10 02:06	0°♌						
morning set	3088 Oct 25 09:04	24°♌11'14		superior conj		3089 Oct 18 13:44	25°♌50'20	1°10'01
	3088 Oct 28 16:15	0°♍		minimum elong		3089 Oct 18 18:03	26°♌09'21	1°09'30
						3089 Oct 20 22:47	0°♍	
superior conj	3088 Nov 05 23:35	14°♍15'58	0°37'07	max. Earth dist.		3089 Oct 26 04:32	8°♍54'17	1.42031 AU
minimum elong	3088 Nov 06 03:02	14°♍30'25	0°36'38	desc. node		3089 Oct 29 07:50	14°♍04'03	
desc. node	3088 Nov 11 10:49	23°♍17'13		evening rise		3089 Oct 31 23:27	18°♍20'14	
max. Earth dist.	3088 Nov 12 16:48	25°♍18'29	1.43681 AU			3089 Nov 08 11:19	0°♊	
	3088 Nov 15 15:10	0°♊				3089 Nov 30 01:01	0°♋	
evening rise	3088 Nov 21 03:43	8°♊39'17		evening max el		3089 Dec 03 23:29	4°♋21'04	22°27'53
	3088 Dec 05 08:28	0°♋		retrograde		3089 Dec 13 16:31	10°♋07'19	
evening max el	3088 Dec 21 05:28	20°♋47'30	21°11'41	evening set		3089 Dec 18 07:02	8°♋15'25	
retrograde	3088 Dec 29 20:40	25°♋54'41		asc. node		3089 Dec 18 16:46	7°♋54'34	
asc. node	3088 Dec 31 19:44	25°♋33'31		inferior conj		3089 Dec 23 15:37	1°♋54'21	1°37'28
evening set	3089 Jan 02 23:34	24°♋19'08		minimum elong		3089 Dec 23 13:37	2°♋01'19	1°36'43
inferior conj	3089 Jan 08 08:05	18°♋05'24	2°20'24	min. Earth dist.		3089 Dec 23 12:27	2°♋05'19	0.67930 AU
minimum elong	3089 Jan 08 05:36	18°♋13'59	2°19'36			3089 Dec 25 01:01	30°♋♊	
min. Earth dist.	3089 Jan 08 16:18	17°♋37'04	0.67689 AU	morning rise		3089 Dec 28 20:03	25°♊44'16	
morning rise	3089 Jan 13 11:26	11°♋52'40		direct		3090 Jan 02 11:02	23°♊49'28	
direct	3089 Jan 18 17:18	9°♋35'09		morning max el		3090 Jan 11 17:51	29°♊16'44	22°06'24
morning max el	3089 Jan 29 06:10	15°♋51'33	23°34'02			3090 Jan 12 10:42	0°♋	
desc. node	3089 Feb 07 10:04	26°♋42'37		desc. node		3090 Jan 25 07:06	16°♋19'02	
	3089 Feb 09 21:00	0°♌				3090 Feb 03 15:19	0°♌	

morning set	3090 Feb 13 18:57	15°  51'30			3091 Jan 27 14:38	0° 	
max. Earth dist.	3090 Feb 19 09:41	25°  05'44	1.41082 AU	max. Earth dist.	3091 Feb 01 14:30	7°  59'57	1.42980 AU
	3090 Feb 22 07:06	0° 					
superior conj	3090 Feb 27 04:04	8°  30'15	-2°02'04	superior conj	3091 Feb 08 09:00	19°  11'05	-2°06'01
minimum elong	3090 Feb 27 07:03	8°  43'32	2°01'57	minimum elong	3091 Feb 08 07:42	19°  05'38	2°06'00
evening rise	3090 Mar 09 13:58	27°  34'05		evening rise	3091 Feb 14 16:26	0° 	
	3090 Mar 10 21:20	0° 		asc. node	3091 Feb 20 07:33	9°  55'27	
asc. node	3090 Mar 16 16:03	10°  28'36		asc. node	3091 Mar 03 13:05	29°  07'34	
evening max el	3090 Mar 25 20:14	23°  30'23	18°15'46	evening max el	3091 Mar 04 02:58	0° 	
retrograde	3090 Apr 01 21:57	27°  02'32		retrograde	3091 Mar 09 07:42	6°  34'39	18°07'04
evening set	3090 Apr 04 09:47	26°  37'04		evening set	3091 Mar 15 21:03	9°  57'57	
inferior conj	3090 Apr 11 11:10	21°  54'18	2°55'06	inferior conj	3091 Mar 18 14:35	9°  22'20	
minimum elong	3090 Apr 11 14:38	21°  46'45	2°54'22	minimum elong	3091 Mar 25 01:21	4°  19'08	3°29'17
min. Earth dist.	3090 Apr 14 21:01	18°  57'53	0.59488 AU	min. Earth dist.	3091 Mar 25 03:11	4°  14'34	3°29'06
morning rise	3090 Apr 18 16:57	16°  14'26			3091 Mar 28 02:33	1°  17'18	0.61651 AU
desc. node	3090 Apr 23 06:16	14°  31'49		morning rise	3091 Mar 29 12:23	30°  R 	
direct	3090 Apr 25 02:08	14°  22'41		direct	3091 Mar 31 14:09	28°  21'57	
morning max el	3090 May 09 10:38	22°  10'56	27°22'40	desc. node	3091 Apr 07 10:09	25°  57'48	
	3090 May 16 07:50	0° 			3091 Apr 10 03:18	26°  18'50	
	3090 Jun 04 01:34	0° 		morning max el	3091 Apr 17 03:53	0° 	
morning set	3090 Jun 09 14:33	11°  20'54		morning set	3091 Apr 21 14:14	3°  54'44	27°50'04
asc. node	3090 Jun 12 15:18	17°  31'56			3091 May 10 22:51	0° 	
max. Earth dist.	3090 Jun 16 04:40	25°  17'47	1.32098 AU	max. Earth dist.	3091 May 24 18:21	25°  8'31'23	
					3091 May 26 22:11	0° 	
superior conj	3090 Jun 16 17:35	26°  28'53	0°41'59	asc. node	3091 May 30 14:33	7°  52'06	1.32343 AU
minimum elong	3090 Jun 16 15:51	26°  19'20	0°41'37		3091 May 30 12:20	7°  40'06	
	3090 Jun 18 07:54	0° 		superior conj	3091 Jun 01 03:52	11°  21'51'10	0°17'17
evening rise	3090 Jun 23 13:43	11°  22'31		minimum elong	3091 Jun 01 03:04	11°  21'10'50	0°17'06
	3090 Jul 03 01:34	0° 		evening rise	3091 Jun 08 01:06	26°  13'00	
desc. node	3090 Jul 20 05:32	24°  28'15			3091 Jun 09 20:18	0° 	
evening max el	3090 Jul 21 22:18	26°  09'49	26°01'24		3091 Jun 27 09:20	0° 	
	3090 Jul 26 14:29	0° 		evening max el	3091 Jul 03 13:39	6°  59'27	24°37'34
retrograde	3090 Aug 04 21:48	3°  18'50		desc. node	3091 Jul 07 02:32	10°  20'10'05	
evening set	3090 Aug 11 05:24	1°  42'38		retrograde	3091 Jul 17 11:35	14°  20'14'49	
	3090 Aug 14 03:42	30°  R 		evening set	3091 Jul 22 13:00	13°  20'04'07	
min. Earth dist.	3090 Aug 15 10:45	29°  06'33	0.58889 AU	min. Earth dist.	3091 Jul 28 00:46	10°  21'32'26	0.56962 AU
inferior conj	3090 Aug 18 17:16	26°  24'11'10	-4°58'33	inferior conj	3091 Jul 30 20:11	8°  24'40	-5°02'01
minimum elong	3090 Aug 18 20:14	26°  35'39	4°58'17	minimum elong	3091 Jul 30 17:58	8°  28'15	5°01'54
morning rise	3090 Aug 26 13:15	22°  21'43'44		morning rise	3091 Aug 08 01:36	4°  21'19'37	
direct	3090 Aug 29 00:20	21°  25'42'22		direct	3091 Aug 10 16:45	4°  21'00'28	
morning max el	3090 Sep 06 01:29	25°  45'40	18°32'06	morning max el	3091 Aug 20 00:20	8°  21'15	19°24'06
asc. node	3090 Sep 08 14:32	28°  32'14		asc. node	3091 Aug 26 11:34	16°  20'20'48	
	3090 Sep 09 17:58	0° 			3091 Sep 03 06:01	0° 	
morning set	3090 Sep 22 05:09	21°  31'50		morning set	3091 Sep 06 05:49	5°  25'40'08	
	3090 Sep 26 14:25	0° 					
superior conj	3090 Oct 01 02:16	8°  30'35	1°31'23	superior conj	3091 Sep 14 07:37	22°  20'00'44	1°42'25
minimum elong	3090 Oct 01 05:26	8°  45'20	1°31'06	minimum elong	3091 Sep 14 09:01	22°  20'07'35	1°42'22
max. Earth dist.	3090 Oct 08 11:03	21°  47'09	1.40042 AU	max. Earth dist.	3091 Sep 18 11:30	0° 	
evening rise	3090 Oct 12 16:32	28°  45'59'57		evening rise	3091 Sep 20 14:55	3°  58'58	1.37968 AU
	3090 Oct 13 06:57	0° 		desc. node	3091 Sep 24 09:12	10°  45'12	
desc. node	3090 Oct 16 04:51	4°  46'44			3091 Oct 03 01:51	25°  45'21'17	
	3090 Nov 01 23:27	0° 			3091 Oct 06 00:39	0° 	
evening max el	3090 Nov 16 13:33	17°  57'15	23°47'49	evening max el	3091 Oct 28 11:37	0° 	
retrograde	3090 Nov 27 09:20	24°  20'08		retrograde	3091 Oct 30 01:48	1°  37'03	25°04'58
evening set	3090 Dec 02 12:55	22°  51'11'38		evening set	3091 Nov 10 22:05	8°  28'53	
asc. node	3090 Dec 05 13:47	18°  56'51		min. Earth dist.	3091 Nov 16 15:34	6°  27'05'02	
inferior conj	3090 Dec 07 22:56	15°  57'47'02	0°48'25		3091 Nov 21 03:40	1°  37'01'58	0.67350 AU
minimum elong	3090 Dec 07 21:49	15°  50'51	0°47'57	inferior conj	3091 Nov 21 22:36	30°  R 	
min. Earth dist.	3090 Dec 07 09:00	16°  34'28	0.67812 AU	minimum elong	3091 Nov 22 04:17	29°  41'19	-0°05'36
morning rise	3090 Dec 13 06:43	9°  41'30		transit middle	3091 Nov 22 04:26	29°  40'52	0°05'32
direct	3090 Dec 17 07:40	8°  40'09'29		transit begin	3091 Nov 22 04:26	29°  40'52	0°05'32
morning max el	3090 Dec 25 12:02	12°  52'40	20°46'34	transit end	3091 Nov 22 01:49	29°  49'24	
	3091 Jan 07 19:59	0° 		asc. node	3091 Nov 22 07:02	29°  32'19	
desc. node	3091 Jan 12 04:07	6°  32'03'36		morning rise	3091 Nov 22 10:49	29°  19'58	
morning set	3091 Jan 23 23:22	24°  31'7'29		direct	3091 Nov 27 17:30	23°  42'30	
					3091 Dec 01 06:00	22°  30'59	

morning max el	3091 Dec 08 14:06	26° \mathbb{M} 39'48	19°39'21	direct	3092 Nov 14 04:30	6° \mathbb{M} 49'41	
	3091 Dec 11 13:56	0° \mathbb{A}		morning max el	3092 Nov 20 23:15	10° \mathbb{M} 34'35	18°47'16
greatest brilliancy	3091 Dec 21 18:02	14° \mathbb{A} 05'57	-0.7m		3092 Dec 04 23:28	0° \mathbb{A}	
desc. node	3091 Dec 30 01:08	26° \mathbb{A} 40'25		morning set	3092 Dec 12 09:16	11° \mathbb{A} 38'28	
	3092 Jan 01 05:03	0° \mathbb{B}		desc. node	3092 Dec 15 22:09	17° \mathbb{A} 12'38	
morning set	3092 Jan 02 19:52	2° \mathbb{B} 29'44			3092 Dec 24 01:35	0° \mathbb{B}	
max. Earth dist.	3092 Jan 15 02:18	21° \mathbb{B} 40'36	1.44379 AU	max. Earth dist.	3092 Dec 27 19:17	5° \mathbb{B} 51'55	1.45121 AU
superior conj	3092 Jan 19 11:55	28° \mathbb{B} 42'31	-1°52'36	superior conj	3092 Dec 28 18:12	7° \mathbb{B} 21'57	-1°19'57
minimum elong	3092 Jan 19 04:54	28° \mathbb{B} 14'18	1°52'07	minimum elong	3092 Dec 28 09:18	6° \mathbb{B} 46'59	1°18'59
	3092 Jan 20 07:09	0° \mathbb{C}			3093 Jan 12 00:21	0° \mathbb{C}	
evening rise	3092 Feb 02 05:43	21° \mathbb{C} 24'18		evening rise	3093 Jan 13 04:55	1° \mathbb{C} 54'56	
	3092 Feb 07 07:48	0° \mathbb{H}			3093 Jan 31 10:22	0° \mathbb{H}	
asc. node	3092 Feb 18 10:07	17° \mathbb{H} 07'46		evening max el	3093 Feb 03 07:38	3° \mathbb{H} 19'58	18°46'04
evening max el	3092 Feb 20 20:24	19° \mathbb{H} 53'31	18°17'27	asc. node	3093 Feb 04 07:11	4° \mathbb{H} 16'50	
retrograde	3092 Feb 27 07:13	23° \mathbb{H} 21'28		retrograde	3093 Feb 10 00:20	7° \mathbb{H} 04'16	
evening set	3092 Mar 01 06:18	22° \mathbb{H} 34'36		evening set	3093 Feb 13 05:32	6° \mathbb{H} 05'08	
inferior conj	3092 Mar 07 06:19	17° \mathbb{H} 12'12	3°39'48	inferior conj	3093 Feb 18 22:04	0° \mathbb{H} 25'10	3°32'42
minimum elong	3092 Mar 07 06:19	17° \mathbb{H} 12'13	3°39'48	minimum elong	3093 Feb 18 20:39	0° \mathbb{H} 29'32	3°32'33
min. Earth dist.	3092 Mar 09 17:23	14° \mathbb{H} 27'13	0.63646 AU		3093 Feb 19 06:15	30° \mathbb{R} \mathbb{C}	
morning rise	3092 Mar 13 05:26	11° \mathbb{H} 05'41		min. Earth dist.	3093 Feb 20 17:29	28° \mathbb{C} 12'15	0.65303 AU
direct	3092 Mar 20 03:01	8° \mathbb{H} 20'33		morning rise	3093 Feb 24 11:21	24° \mathbb{C} 14'03	
desc. node	3092 Mar 27 00:21	10° \mathbb{H} 36'24		direct	3093 Mar 03 02:54	21° \mathbb{C} 22'34	
morning max el	3092 Apr 02 22:16	16° \mathbb{H} 17'27	27°40'00	desc. node	3093 Mar 13 21:23	26° \mathbb{C} 49'02	
	3092 Apr 14 05:47	0° \mathbb{Y}		morning max el	3093 Mar 16 07:58	29° \mathbb{C} 08'11	26°56'55
	3092 May 02 16:14	0° \mathbb{B}			3093 Mar 17 04:10	0° \mathbb{H}	
morning set	3092 May 07 15:16	9° \mathbb{B} 33'10			3093 Apr 08 02:17	0° \mathbb{Y}	
max. Earth dist.	3092 May 12 18:13	20° \mathbb{B} 03'16	1.33016 AU	morning set	3093 Apr 21 02:12	23° \mathbb{Y} 01'27	
					3093 Apr 24 15:37	0° \mathbb{B}	
superior conj	3092 May 15 10:58	25° \mathbb{B} 47'35	-0°09'49	max. Earth dist.	3093 Apr 25 12:09	1° \mathbb{B} 43'07	1.34144 AU
minimum elong	3092 May 15 11:28	25° \mathbb{B} 50'11	0°09'43				
behind sun begin	3092 May 15 07:12	25° \mathbb{B} 27'21		superior conj	3093 Apr 29 12:48	9° \mathbb{B} 59'43	-0°38'14
behind sun end	3092 May 15 15:43	26° \mathbb{B} 13'02		minimum elong	3093 Apr 29 14:47	10° \mathbb{B} 10'03	0°37'49
asc. node	3092 May 16 09:23	27° \mathbb{B} 48'03		asc. node	3093 May 03 06:28	17° \mathbb{B} 51'48	
	3092 May 17 09:52	0° \mathbb{I}		evening rise	3093 May 06 23:03	25° \mathbb{B} 38'22	
evening rise	3092 May 22 12:51	11° \mathbb{I} 00'19			3093 May 09 01:46	0° \mathbb{I}	
	3092 Jun 01 07:10	0° \mathbb{E}		evening max el	3093 May 26 22:25	28° \mathbb{I} 02'44	21°28'32
evening max el	3092 Jun 14 03:07	17° \mathbb{E} 26'20	23°01'32		3093 May 29 03:08	0° \mathbb{E}	
desc. node	3092 Jun 22 23:34	23° \mathbb{E} 20'05		retrograde	3093 Jun 08 03:20	4° \mathbb{E} 02'17	
retrograde	3092 Jun 27 12:50	24° \mathbb{E} 07'22		desc. node	3093 Jun 09 20:35	3° \mathbb{E} 55'30	
evening set	3092 Jul 01 01:47	23° \mathbb{E} 39'56		evening set	3093 Jun 10 13:03	3° \mathbb{E} 49'07	
min. Earth dist.	3092 Jul 08 12:16	20° \mathbb{E} 20'22	0.55518 AU	inferior conj	3093 Jun 19 22:35	29° \mathbb{I} 49'07	-2°51'33
inferior conj	3092 Jul 10 03:39	19° \mathbb{E} 23'14	-4°21'00	minimum elong	3093 Jun 19 15:05	29° \mathbb{I} 59'36	2°49'08
minimum elong	3092 Jul 09 20:18	19° \mathbb{E} 33'56	4°19'31		3093 Jun 19 14:48	30° \mathbb{R} \mathbb{I}	
morning rise	3092 Jul 18 17:11	15° \mathbb{E} 30'53		min. Earth dist.	3093 Jun 19 23:39	29° \mathbb{I} 47'38	0.54876 AU
direct	3092 Jul 21 14:27	15° \mathbb{E} 11'08		morning rise	3093 Jun 28 17:52	25° \mathbb{I} 53'25	
morning max el	3092 Aug 01 11:53	20° \mathbb{E} 14'20	20°37'26	direct	3093 Jul 02 01:04	25° \mathbb{I} 29'43	
	3092 Aug 09 08:51	0° \mathbb{Q}			3093 Jul 12 22:05	0° \mathbb{E}	
asc. node	3092 Aug 12 08:38	4° \mathbb{Q} 53'35		morning max el	3093 Jul 14 12:03	1° \mathbb{E} 23'01	22°09'15
morning set	3092 Aug 20 12:13	20° \mathbb{Q} 33'18		asc. node	3093 Jul 30 05:42	23° \mathbb{E} 59'57	
	3092 Aug 25 01:43	0° \mathbb{P}			3093 Aug 02 07:15	0° \mathbb{Q}	
				morning set	3093 Aug 04 22:11	5° \mathbb{Q} 23'30	
superior conj	3092 Aug 28 01:00	6° \mathbb{P} 06'41	1°44'50				
minimum elong	3092 Aug 28 00:45	6° \mathbb{P} 05'27	1°44'50	superior conj	3093 Aug 12 02:46	20° \mathbb{Q} 37'46	1°40'11
max. Earth dist.	3092 Sep 01 22:05	15° \mathbb{P} 50'46	1.36059 AU	minimum elong	3093 Aug 12 01:18	20° \mathbb{Q} 30'03	1°40'07
evening rise	3092 Sep 05 22:26	23° \mathbb{P} 28'37		max. Earth dist.	3093 Aug 15 13:31	27° \mathbb{Q} 48'17	1.34473 AU
	3092 Sep 09 12:48	0° \mathbb{L}			3093 Aug 16 15:22	0° \mathbb{P}	
desc. node	3092 Sep 18 22:52	15° \mathbb{L} 42'36		evening rise	3093 Aug 20 03:45	6° \mathbb{P} 58'23	
	3092 Sep 28 16:46	0° \mathbb{M}			3093 Sep 02 03:41	0° \mathbb{L}	
evening max el	3092 Oct 11 14:06	15° \mathbb{M} 18'09	26°11'51	desc. node	3093 Sep 05 19:54	5° \mathbb{L} 44'29	
retrograde	3092 Oct 24 05:55	22° \mathbb{M} 27'34		evening max el	3093 Sep 24 02:44	28° \mathbb{L} 53'22	27°00'49
evening set	3092 Oct 30 13:07	19° \mathbb{M} 51'43			3093 Sep 25 07:23	0° \mathbb{M}	
min. Earth dist.	3092 Nov 03 18:01	15° \mathbb{M} 24'07	0.66554 AU	retrograde	3093 Oct 07 08:08	6° \mathbb{M} 10'02	
inferior conj	3092 Nov 05 05:49	13° \mathbb{M} 33'35	-1°03'21	evening set	3093 Oct 14 03:26	3° \mathbb{M} 27'53	
minimum elong	3092 Nov 05 07:30	13° \mathbb{M} 28'21	1°02'38		3093 Oct 17 17:11	30° \mathbb{R} \mathbb{L}	
asc. node	3092 Nov 08 07:53	9° \mathbb{M} 59'33		min. Earth dist.	3093 Oct 18 01:39	29° \mathbb{L} 36'27	0.65413 AU
morning rise	3092 Nov 11 02:21	7° \mathbb{M} 44'08		inferior conj	3093 Oct 20 01:24	27° \mathbb{L} 20'11	-2°03'09

minimum elong	3093 Oct 20 04:48	27° Ω 10'30	2°01'49	morning rise	3094 Oct 10 04:27	5° Ω 33'26	
morning rise	3093 Oct 26 06:58	21° Ω 43'13		direct	3094 Oct 12 16:56	5° Ω 01'55	
asc. node	3093 Oct 26 04:55	21° Ω 45'47		asc. node	3094 Oct 13 01:57	5° Ω 02'37	
direct	3093 Oct 29 01:03	21° Ω 02'01		morning max el	3094 Oct 19 05:47	8° Ω 27'15	17°53'19
morning max el	3093 Nov 04 13:24	24° Ω 32'46	18°11'40		3094 Nov 02 14:46	0° \mathbb{M}	
	3093 Nov 09 01:20	0° \mathbb{M}		morning set	3094 Nov 05 01:24	4° \mathbb{M} 11'52	
morning set	3093 Nov 23 03:46	22° \mathbb{M} 15'44					
	3093 Nov 27 21:36	0° \mathbb{J}		superior conj	3094 Nov 17 18:05	25° \mathbb{M} 32'10	0°13'10
desc. node	3093 Dec 02 19:12	7° \mathbb{J} 53'45		minimum elong	3094 Nov 17 19:32	25° \mathbb{M} 38'05	0°12'58
				behind sun begin	3094 Nov 17 13:33	25° \mathbb{M} 13'41	
superior conj	3093 Dec 07 21:31	16° \mathbb{J} 00'04	-0°34'06	behind sun end	3094 Nov 18 01:30	26° \mathbb{M} 02'27	
minimum elong	3093 Dec 07 17:10	15° \mathbb{J} 42'53	0°33'31	desc. node	3094 Nov 19 16:14	28° \mathbb{M} 39'42	
max. Earth dist.	3093 Dec 10 14:48	20° \mathbb{J} 17'23	1.45127 AU		3094 Nov 20 12:08	0° \mathbb{J}	
	3093 Dec 16 19:38	0° \mathbb{Z}		max. Earth dist.	3094 Nov 23 09:14	4° \mathbb{J} 36'43	1.44396 AU
evening rise	3093 Dec 24 05:52	11° \mathbb{Z} 34'01		evening rise	3094 Dec 03 16:29	20° \mathbb{J} 43'07	
	3094 Jan 05 04:21	0° \approx			3094 Dec 09 18:26	0° \mathbb{Z}	
greatest brilliancy	3094 Jan 05 11:42	0° \approx 27'48	-0.7m		3094 Dec 31 09:32	0° \approx	
evening max el	3094 Jan 17 15:14	16° \approx 49'56	19°31'28	evening max el	3094 Dec 31 17:39	0° \approx 21'06	20°31'35
asc. node	3094 Jan 22 04:14	20° \approx 21'09		retrograde	3095 Jan 08 19:19	5° \approx 06'30	
retrograde	3094 Jan 24 21:13	21° \approx 00'46		asc. node	3095 Jan 09 01:14	5° \approx 06'10	
evening set	3094 Jan 28 09:37	19° \approx 48'19		evening set	3095 Jan 12 16:26	3° \approx 39'38	
inferior conj	3094 Feb 02 21:23	13° \approx 52'51	3°12'23		3095 Jan 16 04:55	30° \mathbb{R} \mathbb{Z}	
minimum elong	3094 Feb 02 19:07	14° \approx 00'16	3°11'57	inferior conj	3095 Jan 18 01:35	27° \mathbb{Z} 31'27	2°41'51
min. Earth dist.	3094 Feb 04 01:52	12° \approx 19'38	0.66551 AU	minimum elong	3095 Jan 17 23:02	27° \mathbb{Z} 40'08	2°41'08
morning rise	3094 Feb 08 04:23	7° \approx 39'44		min. Earth dist.	3095 Jan 18 16:43	26° \mathbb{Z} 39'50	0.67384 AU
direct	3094 Feb 14 08:42	4° \approx 54'54		morning rise	3095 Jan 23 05:28	21° \mathbb{Z} 18'02	
morning max el	3094 Feb 26 17:22	12° \approx 15'58	25°48'44	direct	3095 Jan 28 19:45	18° \mathbb{Z} 49'05	
desc. node	3094 Feb 28 18:25	14° \approx 25'10		morning max el	3095 Feb 09 01:59	25° \mathbb{Z} 32'19	24°25'08
	3094 Mar 12 23:35	0° \mathbb{H}			3095 Feb 13 03:41	0° \approx	
	3094 Mar 31 18:42	0° \mathbb{Y}		desc. node	3095 Feb 15 15:28	3° \approx 00'51	
morning set	3094 Apr 03 22:57	5° \mathbb{Y} 44'06			3095 Mar 06 12:18	0° \mathbb{H}	
max. Earth dist.	3094 Apr 07 18:43	12° \mathbb{Y} 54'34	1.35729 AU	morning set	3095 Mar 17 00:05	17° \mathbb{H} 26'10	
				max. Earth dist.	3095 Mar 20 16:18	23° \mathbb{H} 58'29	1.37693 AU
					3095 Mar 23 22:54	0° \mathbb{Y}	
superior conj	3094 Apr 13 06:46	23° \mathbb{Y} 43'57	-1°06'36				
minimum elong	3094 Apr 13 10:13	24° \mathbb{Y} 01'20	1°06'00	superior conj	3095 Mar 27 13:34	6° \mathbb{Y} 51'26	-1°32'49
	3094 Apr 16 08:42	0° \mathbb{B}		minimum elong	3095 Mar 27 18:00	7° \mathbb{Y} 12'52	1°32'15
asc. node	3094 Apr 20 03:32	7° \mathbb{B} 46'53		evening rise	3095 Apr 05 06:12	23° \mathbb{Y} 59'50	
evening rise	3094 Apr 21 05:39	10° \mathbb{B} 00'36		asc. node	3095 Apr 07 00:34	27° \mathbb{Y} 28'41	
	3094 May 02 00:02	0° \mathbb{I}			3095 Apr 08 07:41	0° \mathbb{B}	
evening max el	3094 May 09 04:43	9° \mathbb{I} 12'05	20°09'28	evening max el	3095 Apr 21 22:47	21° \mathbb{B} 02'17	19°09'25
retrograde	3094 May 19 17:25	14° \mathbb{I} 19'11		retrograde	3095 Apr 30 19:45	25° \mathbb{B} 21'03	
evening set	3094 May 21 17:14	14° \mathbb{I} 08'59		evening set	3095 May 02 21:38	25° \mathbb{B} 07'50	
desc. node	3094 May 27 17:38	11° \mathbb{I} 54'09		inferior conj	3095 May 11 04:50	20° \mathbb{B} 56'22	0°58'26
inferior conj	3094 May 30 18:27	10° \mathbb{I} 09'58	-0°53'36	minimum elong	3095 May 11 07:07	20° \mathbb{B} 52'28	0°57'38
minimum elong	3094 May 30 15:56	10° \mathbb{I} 13'42	0°52'40	min. Earth dist.	3095 May 14 03:26	18° \mathbb{B} 57'03	0.56410 AU
min. Earth dist.	3094 Jun 01 12:16	9° \mathbb{I} 07'54	0.55194 AU	desc. node	3095 May 14 14:39	18° \mathbb{B} 38'53	
morning rise	3094 Jun 08 13:06	5° \mathbb{I} 51'25		morning rise	3095 May 19 13:32	16° \mathbb{B} 02'52	
direct	3094 Jun 12 13:03	5° \mathbb{I} 16'42		direct	3095 May 24 12:48	15° \mathbb{B} 05'21	
morning max el	3094 Jun 26 04:16	11° \mathbb{I} 57'44	23°51'27	morning max el	3095 Jun 07 18:39	22° \mathbb{B} 23'18	25°30'19
	3094 Jul 09 19:42	0° \mathbb{E}			3095 Jun 14 12:20	0° \mathbb{I}	
asc. node	3094 Jul 17 02:45	13° \mathbb{E} 30'35			3095 Jul 02 09:17	0° \mathbb{E}	
morning set	3094 Jul 20 09:48	20° \mathbb{E} 18'13		asc. node	3095 Jul 03 23:48	3° \mathbb{E} 18'47	
	3094 Jul 24 22:09	0° \mathbb{Q}		morning set	3095 Jul 04 21:24	5° \mathbb{E} 12'17	
superior conj	3094 Jul 27 09:59	5° \mathbb{Q} 24'07	1°29'43				
minimum elong	3094 Jul 27 07:49	5° \mathbb{Q} 12'24	1°29'28	superior conj	3095 Jul 11 20:24	20° \mathbb{E} 18'43	1°14'21
max. Earth dist.	3094 Jul 29 13:55	10° \mathbb{Q} 02'58	1.33285 AU	minimum elong	3095 Jul 11 18:02	20° \mathbb{E} 05'44	1°13'59
evening rise	3094 Aug 03 20:48	21° \mathbb{Q} 01'39		max. Earth dist.	3095 Jul 12 21:22	22° \mathbb{E} 35'22	1.32507 AU
	3094 Aug 08 11:22	0° \mathbb{P}			3095 Jul 16 07:38	0° \mathbb{Q}	
desc. node	3094 Aug 23 16:56	25° \mathbb{P} 17'31		evening rise	3095 Jul 18 22:12	5° \mathbb{Q} 28'37	
	3094 Aug 27 02:11	0° \mathbb{L}			3095 Aug 01 02:03	0° \mathbb{P}	
evening max el	3094 Sep 06 14:13	12° \mathbb{L} 09'30	27°24'53	desc. node	3095 Aug 10 13:57	14° \mathbb{P} 09'45	
retrograde	3094 Sep 20 04:17	19° \mathbb{L} 26'56		evening max el	3095 Aug 19 22:21	24° \mathbb{P} 53'46	27°18'22
evening set	3094 Sep 27 07:40	16° \mathbb{L} 47'24			3095 Aug 26 13:47	0° \mathbb{L}	
min. Earth dist.	3094 Oct 01 00:16	13° \mathbb{L} 30'12	0.63916 AU	retrograde	3095 Sep 02 17:56	2° \mathbb{L} 08'56	
inferior conj	3094 Oct 03 12:32	10° \mathbb{L} 54'25	-3°02'40	evening set	3095 Sep 09 22:12	29° \mathbb{P} 44'02	
minimum elong	3094 Oct 03 17:27	10° \mathbb{L} 41'40	3°01'00		3095 Sep 09 12:19	30° \mathbb{R} \mathbb{P}	

min. Earth dist.	3095 Sep 13 12:31	26° \mathbb{M} 54'02	0.62098 AU	min. Earth dist.	3096 Aug 25 14:36	9° \mathbb{M} 34'17	0.60066 AU
inferior conj	3095 Sep 16 12:12	24° \mathbb{M} 09'12	-3°57'54	inferior conj	3096 Aug 28 21:04	6° \mathbb{M} 56'20	-4°42'10
minimum elong	3095 Sep 16 17:53	23° \mathbb{M} 56'06	3°56'25	minimum elong	3096 Aug 29 01:47	6° \mathbb{M} 46'47	4°41'25
morning rise	3095 Sep 23 15:14	19° \mathbb{M} 07'29		morning rise	3096 Sep 05 11:05	2° \mathbb{M} 16'26	
direct	3095 Sep 26 00:44	18° \mathbb{M} 42'27		direct	3096 Sep 07 20:36	1° \mathbb{M} 55'10	
asc. node	3095 Sep 29 22:59	19° \mathbb{M} 51'56		morning max el	3096 Sep 15 08:59	5° \mathbb{M} 35'36	18°11'58
morning max el	3095 Oct 02 21:23	22° \mathbb{M} 10'53	17°53'00	asc. node	3096 Sep 15 20:01	6° \mathbb{M} 02'59	
	3095 Oct 08 22:09	0° \mathbb{L}			3096 Sep 30 19:45	0° \mathbb{L}	
morning set	3095 Oct 18 19:57	17° \mathbb{L} 07'28		morning set	3096 Oct 01 05:37	0° \mathbb{L} 46'29	
	3095 Oct 26 00:58	0° \mathbb{M}					
superior conj	3095 Oct 29 17:09	6° \mathbb{M} 22'26	0°52'30	superior conj	3096 Oct 10 17:30	18° \mathbb{L} 26'43	1°20'26
minimum elong	3095 Oct 29 21:19	6° \mathbb{M} 40'16	0°51'56	minimum elong	3096 Oct 10 21:29	18° \mathbb{L} 44'41	1°20'00
max. Earth dist.	3095 Nov 05 23:29	18° \mathbb{M} 30'59	1.43029 AU		3096 Oct 17 07:10	0° \mathbb{M}	
desc. node	3095 Nov 06 13:15	19° \mathbb{M} 27'00		max. Earth dist.	3096 Oct 18 08:22	1° \mathbb{M} 47'13	1.41205 AU
evening rise	3095 Nov 13 04:09	0° \mathbb{X} 00'09		evening rise	3096 Oct 23 08:11	10° \mathbb{M} 04'15	
	3095 Nov 13 04:07	0° \mathbb{X}		desc. node	3096 Oct 23 10:16	10° \mathbb{M} 12'40	
	3095 Dec 03 10:04	0° \mathbb{Z}			3096 Nov 05 05:12	0° \mathbb{X}	
evening max el	3095 Dec 14 14:27	13° \mathbb{Z} 52'55	21°43'15	evening max el	3096 Nov 26 06:34	27° \mathbb{X} 27'41	23°01'52
retrograde	3095 Dec 23 16:33	19° \mathbb{Z} 17'21			3096 Nov 29 00:28	0° \mathbb{Z}	
asc. node	3095 Dec 26 22:15	18° \mathbb{Z} 20'16		retrograde	3096 Dec 06 11:19	3° \mathbb{Z} 30'34	
evening set	3095 Dec 28 00:07	17° \mathbb{Z} 34'57		evening set	3096 Dec 11 07:07	1° \mathbb{Z} 31'50	
inferior conj	3096 Jan 02 08:28	11° \mathbb{Z} 17'23	2°03'01	asc. node	3096 Dec 12 19:15	0° \mathbb{Z} 05'12	
minimum elong	3096 Jan 02 06:07	11° \mathbb{Z} 25'30	2°02'13		3096 Dec 12 21:11	30° \mathbb{R} \mathbb{X}	
min. Earth dist.	3096 Jan 02 11:41	11° \mathbb{Z} 06'11	0.67830 AU	inferior conj	3096 Dec 16 16:09	25° \mathbb{X} 08'44	1°17'23
morning rise	3096 Jan 07 11:57	5° \mathbb{Z} 05'23		minimum elong	3096 Dec 16 14:28	25° \mathbb{X} 14'32	1°16'44
direct	3096 Jan 12 11:20	2° \mathbb{Z} 57'28		min. Earth dist.	3096 Dec 16 08:26	25° \mathbb{X} 35'21	0.67917 AU
morning max el	3096 Jan 22 11:32	8° \mathbb{Z} 53'34	22°56'13	morning rise	3096 Dec 21 21:42	19° \mathbb{X} 00'04	
desc. node	3096 Feb 02 12:29	22° \mathbb{Z} 18'36		direct	3096 Dec 26 06:34	17° \mathbb{X} 14'56	
	3096 Feb 08 00:05	0° \mathbb{A}		morning max el	3097 Jan 04 01:33	22° \mathbb{X} 22'51	21°31'06
morning set	3096 Feb 25 23:20	27° \mathbb{A} 50'54			3097 Jan 10 14:19	0° \mathbb{Z}	
	3096 Feb 27 06:19	0° \mathbb{H}		desc. node	3097 Jan 19 09:30	12° \mathbb{Z} 06'56	
max. Earth dist.	3096 Mar 01 11:18	5° \mathbb{H} 26'46	1.39855 AU		3097 Jan 31 08:03	0° \mathbb{A}	
superior conj	3096 Mar 09 04:55	19° \mathbb{H} 10'58	-1°53'54	morning set	3097 Feb 04 17:36	6° \mathbb{A} 53'25	
minimum elong	3096 Mar 09 09:05	19° \mathbb{H} 30'02	1°53'35	max. Earth dist.	3097 Feb 11 11:15	17° \mathbb{A} 47'07	1.41940 AU
	3096 Mar 14 23:52	0° \mathbb{Y}					
evening rise	3096 Mar 18 21:39	7° \mathbb{Y} 27'23		superior conj	3097 Feb 18 23:56	0° \mathbb{H} 31'33	-2°05'34
asc. node	3096 Mar 23 21:35	16° \mathbb{Y} 51'17		minimum elong	3097 Feb 19 01:27	0° \mathbb{H} 38'09	2°05'33
	3096 Apr 01 01:20	0° \mathbb{B}			3097 Feb 18 16:39	0° \mathbb{H}	
evening max el	3096 Apr 04 02:16	3° \mathbb{B} 28'20	18°29'36	evening rise	3097 Mar 02 00:25	20° \mathbb{H} 15'24	
retrograde	3096 Apr 11 16:23	7° \mathbb{B} 12'32			3097 Mar 07 09:35	0° \mathbb{Y}	
evening set	3096 Apr 14 00:30	6° \mathbb{B} 52'22		asc. node	3097 Mar 10 18:36	5° \mathbb{Y} 48'27	
inferior conj	3096 Apr 21 12:06	2° \mathbb{B} 21'58	2°21'59	evening max el	3097 Mar 18 11:51	16° \mathbb{Y} 21'45	18°09'42
minimum elong	3096 Apr 21 15:56	2° \mathbb{B} 14'20	2°20'58	retrograde	3097 Mar 25 06:51	19° \mathbb{Y} 47'54	
	3096 Apr 24 11:42	30° \mathbb{R} \mathbb{Y}		evening set	3097 Mar 27 21:15	19° \mathbb{Y} 18'14	
min. Earth dist.	3096 Apr 24 22:26	29° \mathbb{Y} 39'35	0.58270 AU	inferior conj	3097 Apr 03 15:58	14° \mathbb{Y} 26'54	3°12'53
morning rise	3096 Apr 29 04:18	26° \mathbb{Y} 56'10		minimum elong	3097 Apr 03 18:50	14° \mathbb{Y} 20'17	3°12'24
desc. node	3096 Apr 30 11:41	26° \mathbb{Y} 20'47		min. Earth dist.	3097 Apr 06 23:18	11° \mathbb{Y} 25'01	0.60425 AU
direct	3096 May 05 03:06	25° \mathbb{Y} 24'55		morning rise	3097 Apr 10 14:15	8° \mathbb{Y} 38'43	
	3096 May 16 00:22	0° \mathbb{B}		direct	3097 Apr 17 05:30	6° \mathbb{Y} 31'51	
morning max el	3096 May 19 12:26	3° \mathbb{B} 05'55	26°50'16	desc. node	3097 Apr 17 08:43	6° \mathbb{Y} 31'54	
	3096 Jun 07 23:06	0° \mathbb{I}		morning max el	3097 May 01 12:14	14° \mathbb{Y} 24'34	27°38'47
morning set	3096 Jun 18 07:25	20° \mathbb{I} 00'07			3097 May 14 01:27	0° \mathbb{B}	
asc. node	3096 Jun 19 20:51	23° \mathbb{I} 18'32			3097 May 31 07:59	0° \mathbb{I}	
	3096 Jun 22 22:54	0° \mathbb{E}		morning set	3097 Jun 02 14:04	4° \mathbb{I} 35'41	
superior conj	3096 Jun 25 08:09	5° \mathbb{E} 14'57	0°54'50	asc. node	3097 Jun 06 17:53	13° \mathbb{I} 24'56	
minimum elong	3096 Jun 25 06:03	5° \mathbb{E} 03'25	0°54'26	max. Earth dist.	3097 Jun 08 20:10	17° \mathbb{I} 58'49	1.32152 AU
max. Earth dist.	3096 Jun 25 08:39	5° \mathbb{E} 17'46	1.32131 AU				
evening rise	3096 Jul 02 05:13	20° \mathbb{E} 10'47		superior conj	3097 Jun 09 19:29	20° \mathbb{I} 06'45	0°31'50
	3096 Jul 07 01:11	0° \mathbb{Q}		minimum elong	3097 Jun 09 18:06	19° \mathbb{I} 59'10	0°31'33
	3096 Jul 25 17:32	0° \mathbb{M}			3097 Jun 14 07:43	0° \mathbb{E}	
desc. node	3096 Jul 27 10:58	2° \mathbb{M} 04'38		evening rise	3097 Jun 16 15:38	5° \mathbb{E} 00'32	
evening max el	3096 Aug 01 00:49	6° \mathbb{M} 55'40	26°38'40		3097 Jun 29 20:53	0° \mathbb{Q}	
retrograde	3096 Aug 14 23:52	14° \mathbb{M} 07'26		evening max el	3097 Jul 13 20:08	18° \mathbb{Q} 10'20	25°28'18
evening set	3096 Aug 21 18:31	12° \mathbb{M} 10'39		desc. node	3097 Jul 14 07:59	18° \mathbb{Q} 38'14	
				retrograde	3097 Jul 27 19:55	25° \mathbb{Q} 17'01	
				evening set	3097 Aug 02 15:56	23° \mathbb{Q} 57'44	
				min. Earth dist.	3097 Aug 07 08:08	21° \mathbb{Q} 17'19	0.58027 AU

inferior conj	3097 Aug 10 11:37	19°05'36	-5°04'39	evening set	3098 Jul 13 14:10	4°05'22	
minimum elong	3097 Aug 10 12:39	19°03'48	5°04'37	min. Earth dist.	3098 Jul 19 20:27	1°05'58	0.56273 AU
morning rise	3097 Aug 18 11:43	14°04'48	19	inferior conj	3098 Jul 22 05:59	0°03'07	-4°50'45
direct	3097 Aug 21 00:16	14°02'48	42	minimum elong	3098 Jul 22 01:17	0°03'27	4°50'12
morning max el	3097 Aug 29 13:18	18°03'12	18°51'34		3098 Jul 23 01:42	30°08'00	
asc. node	3097 Sep 02 17:05	23°02'07		morning rise	3098 Jul 30 15:01	26°03'32	00
	3097 Sep 07 01:24	0°00'00		direct	3098 Aug 02 08:46	26°03'12	40
morning set	3097 Sep 15 01:50	14°00'55	46		3098 Aug 11 09:07	0°00'00	
	3097 Sep 22 19:03	0°00'00		morning max el	3098 Aug 12 07:29	0°02'49	19°52'46
				asc. node	3098 Aug 20 14:09	11°02'29	12
superior conj	3097 Sep 23 13:48	1°02'29	34	morning set	3098 Aug 30 05:18	29°02'26	34
minimum elong	3097 Sep 23 16:15	1°02'41	10		3098 Aug 30 11:54	0°00'00	
max. Earth dist.	3097 Sep 30 13:20	14°02'21	31				
evening rise	3097 Oct 04 11:30	21°02'12	15	superior conj	3098 Sep 07 00:50	15°00'16	37
	3097 Oct 09 18:19	0°00'00		minimum elong	3098 Sep 07 01:30	15°00'19	55
desc. node	3097 Oct 10 07:17	0°00'00		max. Earth dist.	3098 Sep 12 18:22	26°00'23	48
	3097 Oct 30 06:22	0°00'00			3098 Sep 14 16:48	0°00'00	
evening max el	3097 Nov 08 19:49	11°00'00	06'01	evening rise	3098 Sep 16 13:28	3°02'23	29
retrograde	3097 Nov 20 02:23	17°00'00	41'50	desc. node	3098 Sep 27 04:18	21°02'22	02
evening set	3097 Nov 25 11:48	15°00'00	26'47		3098 Oct 02 19:13	0°00'00	
asc. node	3097 Nov 29 16:18	10°00'00	44'21	evening max el	3098 Oct 22 08:00	24°00'46	53
min. Earth dist.	3097 Nov 30 04:28	10°00'00	03'55		3098 Oct 28 20:50	0°00'00	
inferior conj	3097 Nov 30 22:51	9°00'00	02'15	retrograde	3098 Nov 03 12:57	1°00'00	46'52
minimum elong	3097 Nov 30 22:13	9°00'00	04'21		3098 Nov 08 14:43	30°00'00	
morning rise	3097 Dec 06 08:41	2°00'00	59'12	evening set	3098 Nov 09 12:30	29°00'00	17'15
direct	3097 Dec 10 04:13	1°00'00	36'01	min. Earth dist.	3098 Nov 13 21:28	24°00'00	29'22
morning max el	3097 Dec 17 22:56	6°00'00	02'57	inferior conj	3098 Nov 15 02:48	22°00'00	55'34
	3098 Jan 04 18:03	0°00'00		minimum elong	3098 Nov 15 03:34	22°00'00	53'07
desc. node	3098 Jan 06 06:32	2°00'00	36'53	asc. node	3098 Nov 16 13:22	21°00'00	06'53
morning set	3098 Jan 14 15:32	15°00'00	03'57	morning rise	3098 Nov 20 18:55	17°00'00	00'37
	3098 Jan 24 03:33	0°00'00		direct	3098 Nov 24 02:50	15°00'00	56'45
max. Earth dist.	3098 Jan 24 19:26	1°00'00	03'38	morning max el	3098 Dec 01 04:14	19°00'00	53'40
					3098 Dec 09 04:39	0°00'00	
superior conj	3098 Jan 30 17:52	10°00'00	42'45	greatest brilliancy	3098 Dec 15 02:34	8°00'00	46'20
minimum elong	3098 Jan 30 14:06	10°00'00	27'10	desc. node	3098 Dec 24 03:34	22°00'00	42'23
	3098 Feb 11 03:05	0°00'00		morning set	3098 Dec 24 16:37	23°00'00	43'30
evening rise	3098 Feb 12 10:14	2°00'00	15'11		3098 Dec 28 20:08	0°00'00	
asc. node	3098 Feb 25 15:38	24°00'00	12'15	max. Earth dist.	3099 Jan 07 10:18	15°00'00	30'13
evening max el	3098 Mar 02 00:15	29°00'00	13'34				
	3098 Mar 02 11:11	0°00'00		superior conj	3099 Jan 10 10:31	19°00'00	34'04
retrograde	3098 Mar 08 11:13	2°00'00	57'00	minimum elong	3099 Jan 10 01:53	19°00'00	32'47
evening set	3098 Mar 11 07:14	2°00'00	16'32		3099 Jan 16 19:30	0°00'00	
	3098 Mar 14 14:04	30°00'00		evening rise	3099 Jan 24 22:54	13°00'00	33'19
inferior conj	3098 Mar 17 12:58	27°00'00	04'51		3099 Feb 04 02:39	0°00'00	
minimum elong	3098 Mar 17 13:59	27°00'00	02'09	asc. node	3099 Feb 12 12:41	11°00'00	52'08
min. Earth dist.	3098 Mar 20 08:28	24°00'00	08'09	evening max el	3099 Feb 13 12:35	12°00'00	55'56
morning rise	3098 Mar 23 19:31	21°00'00	03'13	retrograde	3099 Feb 20 00:57	16°00'00	42'29
direct	3098 Mar 30 17:20	18°00'00	28'40	evening set	3099 Feb 23 02:32	15°00'00	43'37
desc. node	3098 Apr 04 05:45	19°00'00	27'05	inferior conj	3099 Feb 28 22:58	10°00'00	07'14
morning max el	3098 Apr 13 17:55	26°00'00	25'43	minimum elong	3099 Feb 28 22:18	10°00'00	09'12
	3098 Apr 17 02:05	0°00'00		min. Earth dist.	3099 Mar 03 03:15	7°00'00	34'47
	3098 May 07 15:12	0°00'00		morning rise	3099 Mar 06 17:26	3°00'00	58'15
morning set	3098 May 17 15:19	18°00'00	52'39	direct	3099 Mar 13 13:05	1°00'00	09'03
	3098 May 22 23:13	0°00'00		desc. node	3099 Mar 22 02:47	4°00'00	37'51
max. Earth dist.	3098 May 23 04:06	0°00'00	26'11	morning max el	3099 Mar 27 03:11	9°00'00	02'31
asc. node	3098 May 24 14:56	3°00'00	23'52		3099 Apr 12 11:23	0°00'00	
					3099 Apr 29 23:10	0°00'00	
superior conj	3098 May 25 04:43	4°00'00	22'48	morning set	3099 May 01 08:26	2°00'00	41'43
minimum elong	3098 May 25 04:25	4°00'00	22'46	max. Earth dist.	3099 May 06 04:19	12°00'00	36'16
behind sun begin	3098 May 24 23:35	4°00'00	22'20				
behind sun end	3098 May 25 09:16	5°00'00	22'13	superior conj	3099 May 09 09:50	19°00'00	13'04
evening rise	3098 Jun 01 03:29	19°00'00	22'51	minimum elong	3099 May 09 10:56	19°00'00	18'55
	3098 Jun 06 02:14	0°00'00		asc. node	3099 May 11 11:59	23°00'00	40'31
evening max el	3098 Jun 25 10:01	28°00'00	47'37		3099 May 14 10:51	0°00'00	
	3098 Jun 26 17:18	0°00'00		evening rise	3099 May 16 14:49	4°00'00	22'35
desc. node	3098 Jul 01 05:01	3°00'00	19'21		3099 May 30 11:36	0°00'00	
retrograde	3098 Jul 09 04:03	5°00'00	42'32	evening max el	3099 Jun 07 00:50	9°00'00	13'56

desc. node	3099 Jun 18 02:03	15°☿31'39		retrograde	3100 May 31 13:20	25°♊40'18	
retrograde	3099 Jun 20 00:14	15°☿40'10		evening set	3100 Jun 02 16:29	25°♊29'30	
evening set	3099 Jun 22 23:48	15°☿20'29		desc. node	3100 Jun 04 23:04	24°♊55'48	
min. Earth dist.	3099 Jul 01 07:24	11°☿44'55	0.55137 AU	inferior conj	3100 Jun 12 00:15	21°♊31'52	-2°02'59
inferior conj	3099 Jul 02 06:47	11°☿11'53	-3°48'24	minimum elong	3100 Jun 11 18:32	21°♊40'01	2°00'58
minimum elong	3099 Jul 01 22:33	11°☿23'32	3°46'16	min. Earth dist.	3100 Jun 12 19:29	21°♊04'33	0.54893 AU
morning rise	3099 Jul 10 23:18	7°☿20'53		morning rise	3100 Jun 20 20:17	17°♊28'15	
direct	3099 Jul 14 00:03	7°☿00'10		direct	3100 Jun 24 09:21	17°♊01'10	
morning max el	3099 Jul 25 14:05	12°☿23'40	21°14'37	morning max el	3100 Jul 07 10:22	23°♊16'17	22°52'05
asc. node	3099 Aug 07 11:13	0°♌17'15		asc. node	3100 Jul 25 08:16	19°☿34'38	
	3099 Aug 07 07:24	0°♌		morning set	3100 Jul 30 00:16	29°☿03'28	
morning set	3099 Aug 14 13:27	14°♌11'04			3100 Jul 30 11:00	0°♌	
superior conj	3099 Aug 21 22:12	29°♌34'33	1°43'39	superior conj	3100 Aug 06 02:35	14°♌13'07	1°36'24
minimum elong	3099 Aug 21 21:23	29°♌30'19	1°43'38	minimum elong	3100 Aug 06 00:45	14°♌03'23	1°36'15
	3099 Aug 22 03:07	0°♍		max. Earth dist.	3100 Aug 08 23:31	20°♌17'05	1.33915 AU
max. Earth dist.	3099 Aug 26 04:32	8°♍14'47	1.35336 AU	evening rise	3100 Aug 13 20:47	0°♍12'56	
evening rise	3099 Aug 30 10:03	16°♍27'40			3100 Aug 13 18:10	0°♍	
	3099 Sep 06 22:29	0°♎			3100 Aug 30 23:17	0°♎	
desc. node	3099 Sep 14 01:21	11°♎35'59		desc. node	3100 Aug 31 22:24	1°♎26'44	
	3099 Sep 27 05:35	0°♏		evening max el	3100 Sep 17 08:28	21°♎53'49	27°14'31
evening max el	3099 Oct 04 20:15	8°♏25'41	26°35'14	retrograde	3100 Sep 30 18:28	29°♎12'17	
retrograde	3099 Oct 17 18:30	15°♏39'46		evening set	3100 Oct 07 17:42	26°♎29'54	
evening set	3099 Oct 24 07:18	13°♏00'00		min. Earth dist.	3100 Oct 11 13:14	22°♎53'27	0.64810 AU
min. Earth dist.	3099 Oct 28 09:09	8°♏48'06	0.66110 AU	inferior conj	3100 Oct 13 18:21	20°♎27'39	-2°28'42
inferior conj	3099 Oct 30 02:03	6°♏45'42	-1°28'36	minimum elong	3100 Oct 13 22:26	20°♎16'25	2°27'10
minimum elong	3099 Oct 30 04:28	6°♏38'29	1°27'36	morning rise	3100 Oct 20 04:12	14°♎57'07	
asc. node	3099 Nov 03 10:26	2°♏09'41		asc. node	3100 Oct 21 07:28	14°♎32'31	
morning rise	3099 Nov 05 02:16	1°♏01'29		direct	3100 Oct 22 19:27	14°♎20'37	
direct	3099 Nov 08 00:39	0°♏13'16		morning max el	3100 Oct 29 07:22	17°♎48'26	18°01'41
morning max el	3099 Nov 14 15:54	3°♏51'00	18°30'07		3100 Nov 07 05:44	0°♏	
	3099 Dec 02 16:17	0°♐		morning set	3100 Nov 16 00:32	14°♏31'02	
morning set	3099 Dec 04 17:54	3°♐18'32		desc. node	3100 Nov 25 09:39	0°♐	
desc. node	3099 Dec 11 00:35	13°♐18'57			3100 Nov 27 21:37	4°♐02'26	
superior conj	3099 Dec 20 12:51	28°♐18'35	-1°01'28	superior conj	3100 Nov 29 21:29	7°♐14'19	-0°13'33
minimum elong	3099 Dec 20 05:17	27°♐48'54	1°00'32	minimum elong	3100 Nov 29 19:49	7°♐07'39	0°13'18
max. Earth dist.	3099 Dec 21 04:35	29°♐20'20	1.45206 AU	behind sun begin	3100 Nov 29 13:43	6°♐43'17	
	3099 Dec 21 14:42	0°♑		behind sun end	3100 Nov 30 01:55	7°♐32'01	
evening rise	3100 Jan 05 12:15	23°♑26'55		max. Earth dist.	3100 Dec 03 23:27	13°♐43'14	1.44895 AU
	3100 Jan 09 15:28	0°♒			3100 Dec 14 09:49	0°♑	
greatest brilliancy	3100 Jan 14 22:43	8°♒21'40	-0.8m	evening rise	3100 Dec 16 05:27	2°♑48'33	
evening max el	3100 Jan 27 22:25	26°♒24'03	19°03'25	greatest brilliancy	3100 Dec 30 04:47	24°♑04'43	-0.6m
asc. node	3100 Jan 30 09:44	28°♒35'38			3101 Jan 03 06:50	0°♒	
	3100 Feb 01 23:45	0°♓		evening max el	3101 Jan 11 03:55	9°♒54'24	19°55'28
retrograde	3100 Feb 03 20:07	0°♓19'00		asc. node	3101 Jan 17 06:45	14°♒07'40	
	3100 Feb 05 15:33	30°♓		retrograde	3101 Jan 18 17:43	14°♒19'17	
evening set	3100 Feb 07 04:07	29°♓14'29		evening set	3101 Jan 22 09:32	13°♓01'04	
inferior conj	3100 Feb 12 18:19	23°♓27'33	3°25'31	inferior conj	3101 Jan 27 19:58	7°♓00'01	3°00'31
minimum elong	3100 Feb 12 16:28	23°♓33'24	3°25'15	minimum elong	3101 Jan 27 17:31	7°♓08'12	2°59'58
min. Earth dist.	3100 Feb 14 07:15	21°♓30'48	0.65876 AU	min. Earth dist.	3101 Jan 28 18:41	5°♓44'09	0.66953 AU
morning rise	3100 Feb 18 04:29	17°♓15'02		morning rise	3101 Feb 02 01:16	0°♓46'26	
direct	3100 Feb 24 15:36	14°♓24'58			3101 Feb 02 23:25	30°♓	
desc. node	3100 Mar 08 23:48	21°♓29'32		direct	3101 Feb 07 23:54	28°♓07'09	
morning max el	3100 Mar 09 13:09	22°♓02'47	26°30'31		3101 Feb 13 15:11	0°♓	
	3100 Mar 16 12:31	0°♔		morning max el	3101 Feb 19 21:58	5°♓14'09	25°14'22
	3100 Apr 05 16:58	0°♕		desc. node	3101 Feb 23 20:49	9°♓33'04	
morning set	3100 Apr 14 13:56	15°♕52'42			3101 Mar 11 00:08	0°♔	
max. Earth dist.	3100 Apr 18 17:27	23°♕52'59	1.34762 AU	morning set	3101 Mar 28 03:02	28°♔11'19	
	3100 Apr 21 18:40	0°♖			3101 Mar 29 03:04	0°♕	
superior conj	3100 Apr 23 08:39	3°♖14'16	-0°50'22	max. Earth dist.	3101 Mar 31 19:02	4°♕54'53	1.36521 AU
minimum elong	3100 Apr 23 11:16	3°♖27'47	0°49'51	superior conj	3101 Apr 06 22:16	16°♕43'51	-1°18'08
asc. node	3100 Apr 28 09:02	13°♖41'06		minimum elong	3101 Apr 07 02:14	17°♕03'29	1°17'31
evening rise	3100 Apr 30 23:45	19°♖07'49			3101 Apr 13 12:23	0°♖	
	3100 May 06 10:17	0°♗		evening rise	3101 Apr 15 04:01	3°♖20'39	
evening max el	3100 May 20 00:21	20°♗02'15	20°52'45				

asc. node	3101 Apr 15 06:04	3°♄31'01	
	3101 May 01 01:28	0°♄	
evening max el	3101 May 02 11:56	1°♄29'35	19°41'34
retrograde	3101 May 12 06:56	6°♄14'20	
evening set	3101 May 14 06:42	6°♄03'27	
desc. node	3101 May 22 20:03	2°♄08'33	
inferior conj	3101 May 23 00:58	2°♄00'51	-0°03'36
minimum elong	3101 May 23 00:49	2°♄01'06	0°03'33
transit middle	3101 May 23 00:49	2°♄01'06	0°03'33
transit begin	3101 May 22 20:58	2°♄07'06	
transit end	3101 May 23 04:39	1°♄55'06	
min. Earth dist.	3101 May 25 09:13	0°♄33'15	0.55614 AU
	3101 May 26 07:23	30°♄	
morning rise	3101 May 31 16:27	27°♄27'56	
direct	3101 Jun 05 02:04	26°♄44'48	
	3101 Jun 14 11:08	0°♄	
morning max el	3101 Jun 19 00:54	3°♄43'40	24°34'44
	3101 Jul 07 12:11	0°♄	
asc. node	3101 Jul 12 05:18	9°♄13'51	
morning set	3101 Jul 14 12:04	13°♄58'53	
superior conj	3101 Jul 21 11:25	29°♄04'21	1°23'45
minimum elong	3101 Jul 21 09:06	28°♄51'46	1°23'27
	3101 Jul 21 21:39	0°♄	
max. Earth dist.	3101 Jul 23 03:16	2°♄40'25	1.32907 AU
evening rise	3101 Jul 28 17:49	14°♄28'19	
	3101 Aug 05 20:00	0°♄	
desc. node	3101 Aug 18 19:25	20°♄44'35	
	3101 Aug 26 01:12	0°♄	
evening max el	3101 Aug 30 19:04	4°♄59'23	27°26'11
retrograde	3101 Sep 13 12:00	12°♄15'50	
evening set	3101 Sep 20 16:37	9°♄41'19	
min. Earth dist.	3101 Sep 24 07:47	6°♄36'31	0.63175 AU
inferior conj	3101 Sep 27 01:02	3°♄55'32	-3°26'58
minimum elong	3101 Sep 27 06:25	3°♄42'13	3°25'18
	3101 Oct 01 12:14	30°♄	
morning rise	3101 Oct 03 21:36	28°♄42'02	
direct	3101 Oct 06 08:26	28°♄13'37	
asc. node	3101 Oct 08 04:29	28°♄29'55	
	3101 Oct 11 01:47	0°♄	
morning max el	3101 Oct 12 23:45	1°♄39'31	17°50'51
morning set	3101 Oct 29 07:57	26°♄55'36	
	3101 Oct 31 02:03	0°♄	
superior conj	3101 Nov 10 04:58	17°♄18'57	0°31'09
minimum elong	3101 Nov 10 08:00	17°♄31'35	0°30'42
desc. node	3101 Nov 14 18:41	24°♄49'44	
max. Earth dist.	3101 Nov 16 16:23	27°♄54'11	1.43890 AU
	3101 Nov 17 23:49	0°♄	
evening rise	3101 Nov 25 14:30	11°♄56'29	
	3101 Dec 07 13:30	0°♄	
evening max el	3101 Dec 25 04:02	23°♄26'17	21°00'56
retrograde	3102 Jan 02 15:30	28°♄27'29	
asc. node	3102 Jan 04 03:45	28°♄14'54	
evening set	3102 Jan 06 16:54	26°♄54'09	
inferior conj	3102 Jan 12 01:32	20°♄41'49	2°26'15
minimum elong	3102 Jan 11 23:01	20°♄50'29	2°25'29
min. Earth dist.	3102 Jan 12 11:30	20°♄07'31	0.67628 AU