superior conj	9600 Jan 02 09:33	16°♑13'08	1°01'58
minimum elong	9600 Jan 02 12:47	16°♑28'20	1°01'52
max. Earth dist.	9600 Jan 09 14:20	29°♑20'53	1.39613 AU
	9600 Jan 09 23:14	0°♒	
desc. node	9600 Jan 10 22:15	1°♒40'21	
evening rise	9600 Jan 13 14:20	6°♒14'50	
	9600 Jan 28 16:41	0°♓	
evening max el	9600 Feb 17 14:37	25°♓26'55	24°09'10
	9600 Feb 23 01:22	0°♈	
retrograde	9600 Feb 28 19:25	2°♈01'19	
asc. node	9600 Mar 04 18:32	0°♈06'08	
	9600 Mar 04 21:36	30°℞♓	
evening set	9600 Mar 05 03:36	29°♓47'30	
min. Earth dist.	9600 Mar 09 20:08	24°♓23'41	0.68259 AU
inferior conj	9600 Mar 10 15:20	23°♓18'52	1°48'02
minimum elong	9600 Mar 10 13:15	23°♓25'54	1°47'24
morning rise	9600 Mar 15 22:56	17°♓17'12	
direct	9600 Mar 19 22:03	15°♓47'52	
morning max el	9600 Mar 27 16:28	20°♓11'03	20°15'38
	9600 Apr 04 19:03	0°♈	
desc. node	9600 Apr 07 22:30	4°♈22'38	
morning set	9600 Apr 24 17:49	29°♈29'49	
	9600 Apr 25 01:38	0°♉	
max. Earth dist.	9600 May 04 12:02	14°♉50'13	1.43874 AU
superior conj	9600 May 10 11:41	24°♉33'28	-2°10'29
minimum elong	9600 May 10 14:41	24°♉45'52	2°10'41
	9600 May 13 18:20	0°♊	
evening rise	9600 May 23 05:44	16°♊11'18	
	9600 May 31 07:05	0°♋	
asc. node	9600 May 31 17:04	0°♋41'07	
evening max el	9600 Jun 09 14:17	12°♋59'24	18°05'54
retrograde	9600 Jun 16 00:32	16°♋19'52	
evening set	9600 Jun 18 18:05	15°♋42'33	
inferior conj	9600 Jun 25 01:36	10°♋32'47	2°33'00
minimum elong	9600 Jun 25 04:20	10°♋25'38	2°32'01
min. Earth dist.	9600 Jun 27 23:36	7°♋31'34	0.62246 AU
morning rise	9600 Jul 01 12:38	4°♋26'11	
desc. node	9600 Jul 04 22:12	2°♋35'49	
direct	9600 Jul 08 05:58	2°♋00'45	
morning max el	9600 Jul 22 08:58	10°♋02'36	27°55'45
	9600 Aug 06 22:05	0°♌	
	9600 Aug 23 23:17	0°♍	
morning set	9600 Aug 25 06:37	2°♍38'07	
asc. node	9600 Aug 27 16:42	7°♍38'29	
max. Earth dist.	9600 Aug 30 17:46	14°♍07'58	1.32066 AU
superior conj	9600 Sep 01 19:38	18°♍39'16	0°49'32
minimum elong	9600 Sep 01 17:38	18°♍28'21	0°49'03
	9600 Sep 06 23:48	0°♎	
evening rise	9600 Sep 08 15:07	3°♎32'35	
	9600 Sep 22 16:43	0°♏	
desc. node	9600 Sep 30 20:31	10°♏54'37	
evening max el	9600 Oct 03 11:19	13°♏37'39	24°15'29
retrograde	9600 Oct 17 04:16	20°♏29'46	
evening set	9600 Oct 22 04:51	19°♏34'11	
min. Earth dist.	9600 Oct 27 22:05	16°♏41'40	0.56219 AU
inferior conj	9600 Oct 30 07:23	15°♏13'04	-5°38'47
minimum elong	9600 Oct 30 09:46	15°♏09'22	5°38'25
morning rise	9600 Nov 07 16:46	11°♏13'16	
direct	9600 Nov 10 08:09	10°♏54'56	
morning max el	9600 Nov 20 06:28	15°♏37'06	19°45'22
asc. node	9600 Nov 23 16:44	19°♏24'41	
	9600 Nov 30 14:43	0°♐	
morning set	9600 Dec 07 22:17	14°♐04'12	
superior conj	9600 Dec 15 18:31	29°♐54'22	1°22'26
minimum elong	9600 Dec 15 21:15	0°♑07'51	1°22'30
	9600 Dec 15 19:40	0°♑	
max. Earth dist.	9600 Dec 21 20:34	11°♑36'41	1.37430 AU
evening rise	9600 Dec 25 14:01	18°♑24'11	
desc. node	9600 Dec 27 19:13	22°♑18'12	
	9601 Jan 01 08:25	0°♒	
	9601 Jan 21 22:53	0°♓	
evening max el	9601 Jan 30 03:51	9°♓15'44	25°24'33
retrograde	9601 Feb 11 07:56	16°♓17'05	
evening set	9601 Feb 17 04:34	13°♓51'45	
asc. node	9601 Feb 19 15:43	11°♓23'29	
min. Earth dist.	9601 Feb 21 13:49	9°♓02'50	0.67567 AU
inferior conj	9601 Feb 22 20:43	7°♓23'15	1°01'48
minimum elong	9601 Feb 22 19:16	7°♓27'53	1°01'25
morning rise	9601 Feb 28 10:23	1°♓29'53	
direct	9601 Mar 03 21:20	0°♓21'16	
morning max el	9601 Mar 10 21:14	4°♓11'57	19°13'51
greatest brilliancy	9601 Mar 23 21:55	21°♓28'22	-0.7m
desc. node	9601 Mar 25 19:20	24°♓19'21	
	9601 Mar 29 12:44	0°♈	
morning set	9601 Apr 03 18:36	8°♈04'29	
max. Earth dist.	9601 Apr 17 03:03	28°♈52'23	1.45082 AU
	9601 Apr 17 20:13	0°♉	
superior conj	9601 Apr 20 07:57	3°♉56'09	-2°09'56
minimum elong	9601 Apr 20 04:03	3°♉40'42	2°09'59
evening rise	9601 May 04 19:25	27°♉23'02	
	9601 May 06 09:26	0°♊	
asc. node	9601 May 18 14:10	19°♊29'40	
evening max el	9601 May 24 03:31	26°♊26'45	18°21'35
retrograde	9601 May 30 13:19	29°♊53'03	
evening set	9601 Jun 02 14:24	29°♊02'03	
inferior conj	9601 Jun 08 10:48	23°♊34'45	3°04'58
minimum elong	9601 Jun 08 12:35	23°♊29'33	3°04'22
min. Earth dist.	9601 Jun 10 18:55	20°♊52'23	0.64303 AU
morning rise	9601 Jun 14 09:39	17°♊18'17	
direct	9601 Jun 21 01:38	14°♊37'13	
desc. node	9601 Jun 21 19:16	14°♊39'00	
morning max el	9601 Jul 04 18:44	22°♊37'32	27°30'11
	9601 Jul 11 06:41	0°♋	
	9601 Jul 31 04:20	0°♌	
morning set	9601 Aug 08 22:41	16°♌16'46	
max. Earth dist.	9601 Aug 13 16:46	25°♌54'35	1.33031 AU
asc. node	9601 Aug 14 13:36	27°♌43'28	
	9601 Aug 15 15:31	0°♍	
superior conj	9601 Aug 17 00:53	2°♍57'32	0°24'30
minimum elong	9601 Aug 16 23:42	2°♍51'16	0°24'05
evening rise	9601 Aug 24 02:30	18°♍09'36	
	9601 Aug 29 21:38	0°♎	
evening max el	9601 Sep 14 22:37	23°♎46'47	22°35'24
desc. node	9601 Sep 17 17:42	26°♎14'18	
	9601 Sep 25 05:29	0°♏	
retrograde	9601 Sep 28 00:21	0°♏17'54	
	9601 Sep 30 20:33	30°℞♎	
evening set	9601 Oct 01 12:46	29°♎50'42	
min. Earth dist.	9601 Oct 09 05:58	26°♎24'07	0.55004 AU
inferior conj	9601 Oct 10 08:22	25°♎46'38	-5°28'34
minimum elong	9601 Oct 10 02:51	25°♎54'29	5°27'48
morning rise	9601 Oct 18 18:45	21°♎58'54	
direct	9601 Oct 21 23:44	21°♎35'28	
morning max el	9601 Nov 02 11:50	27°♎00'01	21°08'16
	9601 Nov 05 08:30	0°♏	
asc. node	9601 Nov 10 13:41	7°♏02'33	

morning set	9601 Nov 22 06:50	28°♏48'14	
	9601 Nov 22 20:37	0°♐	
superior conj	9601 Nov 29 14:28	14°♐06'20	1°34'55
minimum elong	9601 Nov 29 16:05	14°♐14'42	1°35'09
max. Earth dist.	9601 Dec 04 06:14	23°♐31'33	1.35425 AU
	9601 Dec 07 14:32	0°♑	
evening rise	9601 Dec 08 07:40	1°♑20'46	
desc. node	9601 Dec 14 16:13	12°♑47'14	
	9601 Dec 25 09:48	0°♒	
evening max el	9602 Jan 12 17:07	23°♒01'48	26°27'58
	9602 Jan 23 05:53	0°♓	
retrograde	9602 Jan 25 15:25	0°♓19'03	
	9602 Jan 27 22:23	30°℞♒	
evening set	9602 Jan 31 23:46	27°♒46'08	
min. Earth dist.	9602 Feb 05 02:45	23°♒31'41	0.66488 AU
inferior conj	9602 Feb 06 21:22	21°♒23'10	0°07'02
minimum elong	9602 Feb 06 21:10	21°♒23'46	0°07'12
transit middle	9602 Feb 06 21:10	21°♒23'46	0°07'12
transit begin	9602 Feb 06 18:35	21°♒31'36	
transit end	9602 Feb 06 23:45	21°♒15'56	
asc. node	9602 Feb 06 12:51	21°♒48'58	
morning rise	9602 Feb 12 19:29	15°♒39'59	
direct	9602 Feb 15 19:43	14°♒49'08	
morning max el	9602 Feb 22 08:51	18°♒20'03	18°28'06
	9602 Mar 03 07:46	0°♓	
desc. node	9602 Mar 12 16:11	14°♓35'03	
morning set	9602 Mar 14 16:28	17°♓46'27	
	9602 Mar 22 10:10	0°♈	
superior conj	9602 Mar 30 14:22	12°♈48'55	-1°49'05
minimum elong	9602 Mar 30 05:06	12°♈12'41	1°48'22
max. Earth dist.	9602 Mar 30 21:36	13°♈17'12	1.45592 AU
	9602 Apr 10 13:32	0°♉	
evening rise	9602 Apr 15 09:19	7°♉36'41	
greatest brilliancy	9602 Apr 24 18:47	22°♉25'13	-0.8m
	9602 Apr 29 18:29	0°♊	
asc. node	9602 May 05 11:16	7°♊42'21	
evening max el	9602 May 07 14:06	10°♊02'34	18°55'01
retrograde	9602 May 14 08:09	13°♊47'19	
evening set	9602 May 17 17:03	12°♊41'39	
inferior conj	9602 May 23 06:03	6°♊58'30	3°18'48
minimum elong	9602 May 23 06:35	6°♊56'48	3°18'28
min. Earth dist.	9602 May 24 23:02	4°♊49'25	0.66020 AU
morning rise	9602 May 28 19:31	0°♊38'44	
	9602 May 29 14:22	30°℞♉	
direct	9602 Jun 04 04:47	27°♉53'27	
desc. node	9602 Jun 08 16:17	29°♉00'45	
	9602 Jun 10 11:23	0°♊	
morning max el	9602 Jun 17 05:25	5°♊38'36	26°34'24
	9602 Jul 05 21:45	0°♋	
morning set	9602 Jul 23 03:22	29°♋20'33	
	9602 Jul 23 11:42	0°♌	
max. Earth dist.	9602 Jul 27 05:20	7°♌14'02	1.34487 AU
superior conj	9602 Jul 31 23:42	16°♌53'16	-0°04'30
minimum elong	9602 Jul 31 23:58	16°♌54'38	0°04'42
behind sun begin	9602 Jul 31 18:21	16°♌25'37	
behind sun end	9602 Aug 01 05:35	17°♌23'41	
asc. node	9602 Aug 01 10:32	17°♌49'20	
	9602 Aug 07 05:50	0°♍	
evening rise	9602 Aug 08 11:57	2°♍37'39	
	9602 Aug 24 00:46	0°♎	
evening max el	9602 Aug 27 17:45	4°♎12'25	21°02'41
desc. node	9602 Sep 04 14:54	9°♎25'03	
retrograde	9602 Sep 08 12:38	10°♎03'02	
evening set	9602 Sep 10 20:16	9°♎50'23	
inferior conj	9602 Sep 20 00:43	5°♎54'20	-4°21'55
minimum elong	9602 Sep 19 14:57	6°♎08'08	4°19'16
min. Earth dist.	9602 Sep 20 14:22	5°♎35'01	0.54643 AU
morning rise	9602 Sep 28 09:58	1°♎59'55	
direct	9602 Oct 02 07:48	1°♎27'04	
morning max el	9602 Oct 15 05:26	7°♎37'25	22°48'45
asc. node	9602 Oct 28 10:37	25°♎26'42	
	9602 Oct 30 23:11	0°♏	
morning set	9602 Nov 06 17:52	13°♏36'43	
superior conj	9602 Nov 13 17:54	28°♏38'05	1°40'12
minimum elong	9602 Nov 13 18:16	28°♏40'01	1°40'30
	9602 Nov 14 09:16	0°♐	
max. Earth dist.	9602 Nov 16 23:12	5°♐26'01	1.33776 AU
evening rise	9602 Nov 21 15:26	14°♐54'04	
	9602 Nov 29 18:59	0°♑	
desc. node	9602 Dec 01 13:15	3°♑01'36	
	9602 Dec 20 03:28	0°♒	
evening max el	9602 Dec 26 06:17	6°♒35'58	27°12'11
retrograde	9603 Jan 08 16:55	13°♒58'10	
evening set	9603 Jan 15 11:04	11°♒23'32	
min. Earth dist.	9603 Jan 19 08:45	7°♒42'24	0.65047 AU
inferior conj	9603 Jan 21 14:58	5°♒12'24	-0°55'50
minimum elong	9603 Jan 21 16:38	5°♒07'47	0°54'50
asc. node	9603 Jan 24 09:57	2°♒16'58	
	9603 Jan 27 09:22	30°℞♑	
morning rise	9603 Jan 27 23:42	29°♑41'47	
direct	9603 Jan 30 14:59	29°♑04'59	
	9603 Feb 02 21:07	0°♒	
morning max el	9603 Feb 06 00:49	2°♒27'16	17°59'07
morning set	9603 Feb 23 19:44	28°♒56'00	
	9603 Feb 24 11:14	0°♓	
desc. node	9603 Feb 27 13:00	5°♓03'38	
superior conj	9603 Mar 10 00:57	22°♓00'04	-1°12'03
minimum elong	9603 Mar 09 16:57	21°♓28'22	1°10'59
max. Earth dist.	9603 Mar 13 17:04	27°♓47'57	1.45355 AU
	9603 Mar 15 02:44	0°♈	
evening rise	9603 Mar 26 03:42	17°♈07'38	
	9603 Apr 03 13:29	0°♉	
greatest brilliancy	9603 Apr 09 04:04	8°♉24'36	-0.6m
evening max el	9603 Apr 20 20:09	23°♉42'35	19°44'54
asc. node	9603 Apr 22 08:23	25°♉08'04	
retrograde	9603 Apr 28 05:58	27°♉56'52	
evening set	9603 May 01 23:27	26°♉35'51	
inferior conj	9603 May 07 08:10	20°♉38'26	3°18'12
minimum elong	9603 May 07 07:33	20°♉40'31	3°17'54
min. Earth dist.	9603 May 08 10:23	19°♉10'57	0.67311 AU
morning rise	9603 May 12 15:18	14°♉19'28	
direct	9603 May 18 14:00	11°♉40'47	
desc. node	9603 May 26 13:15	15°♉11'51	
morning max el	9603 May 30 15:11	18°♉54'26	25°17'30
	9603 Jun 09 00:22	0°♊	
	9603 Jun 28 23:33	0°♋	
morning set	9603 Jul 05 16:30	11°♋38'35	
max. Earth dist.	9603 Jul 09 07:34	18°♋17'44	1.36394 AU
	9603 Jul 15 09:22	0°♌	
superior conj	9603 Jul 15 13:18	0°♌19'27	-0°36'17
minimum elong	9603 Jul 15 15:33	0°♌30'37	0°36'10
asc. node	9603 Jul 19 07:27	7°♌52'12	
evening rise	9603 Jul 23 17:19	16°♌50'53	
	9603 Jul 30 11:24	0°♍	
evening max el	9603 Aug 10 02:09	15°♍19'13	19°47'20
retrograde	9603 Aug 20 04:14	20°♍18'51	
evening set	9603 Aug 22 00:59	20°♍09'23	
desc. node	9603 Aug 22 12:06	20°♍04'12	

inferior conj	9603 Aug 30 22:49	16°♍07'44	-2°34'59
minimum elong	9603 Aug 30 15:49	16°♍18'30	2°32'31
min. Earth dist.	9603 Sep 02 01:07	14°♍50'23	0.55243 AU
morning rise	9603 Sep 08 04:48	11°♍47'19	
direct	9603 Sep 12 21:48	10°♍58'28	
morning max el	9603 Sep 26 17:17	17°♍49'24	24°35'25
	9603 Oct 06 17:38	0°♎	
asc. node	9603 Oct 15 07:31	14°♎25'47	
morning set	9603 Oct 22 05:38	28°♎24'54	
	9603 Oct 22 23:23	0°♏	
superior conj	9603 Oct 29 02:13	13°♏21'53	1°39'02
minimum elong	9603 Oct 29 01:27	13°♏17'37	1°39'15
max. Earth dist.	9603 Oct 31 00:26	17°♏33'23	1.32566 AU
evening rise	9603 Nov 05 09:52	28°♏55'17	
	9603 Nov 05 22:36	0°♐	
desc. node	9603 Nov 18 10:20	22°♐54'53	
	9603 Nov 22 22:10	0°♑	
evening max el	9603 Dec 08 18:00	19°♑46'57	27°30'06
retrograde	9603 Dec 22 11:34	27°♑05'54	
evening set	9603 Dec 29 11:55	24°♑37'12	
min. Earth dist.	9604 Jan 02 05:45	21°♑26'28	0.63294 AU
inferior conj	9604 Jan 04 22:51	18°♑44'29	-2°05'25
minimum elong	9604 Jan 05 02:54	18°♑34'24	2°03'28
asc. node	9604 Jan 11 07:03	13°♑42'39	
morning rise	9604 Jan 11 19:55	13°♑29'26	
direct	9604 Jan 14 04:29	13°♑02'48	
morning max el	9604 Jan 20 18:18	16°♑26'07	17°47'27
	9604 Jan 30 10:07	0°♒	
morning set	9604 Feb 06 01:02	11°♒20'55	
desc. node	9604 Feb 14 09:50	25°♒40'49	
	9604 Feb 16 23:53	0°♓	
superior conj	9604 Feb 18 07:22	2°♓10'04	-0°28'37
minimum elong	9604 Feb 18 04:21	1°♓57'39	0°27'58
max. Earth dist.	9604 Feb 24 11:22	12°♓10'00	1.44404 AU
evening rise	9604 Mar 04 15:01	26°♓29'40	
	9604 Mar 06 21:57	0°♈	
	9604 Mar 27 14:20	0°♉	
evening max el	9604 Apr 02 20:44	7°♉24'12	20°48'52
asc. node	9604 Apr 08 05:32	11°♉32'53	
retrograde	9604 Apr 11 04:33	12°♉16'25	
evening set	9604 Apr 15 07:35	10°♉39'49	
inferior conj	9604 Apr 20 14:36	4°♉29'52	3°05'41
minimum elong	9604 Apr 20 13:05	4°♉35'06	3°05'16
min. Earth dist.	9604 Apr 21 02:58	3°♉47'13	0.68146 AU
	9604 Apr 24 01:16	30°℞♈	
morning rise	9604 Apr 25 18:23	28°♈14'00	
direct	9604 May 01 04:15	25°♈50'18	
	9604 May 09 13:41	0°♉	
morning max el	9604 May 12 00:26	2°♉18'40	23°49'32
desc. node	9604 May 12 10:11	2°♉43'32	
	9604 Jun 02 01:39	0°♊	
morning set	9604 Jun 16 08:55	22°♊56'54	
max. Earth dist.	9604 Jun 20 04:27	29°♊34'33	1.38609 AU
	9604 Jun 20 10:12	0°♋	
superior conj	9604 Jun 27 14:03	13°♋06'33	-1°08'59
minimum elong	9604 Jun 27 18:32	13°♋27'42	1°08'36
asc. node	9604 Jul 05 04:25	27°♋47'49	
	9604 Jul 06 07:24	0°♌	
evening rise	9604 Jul 06 15:54	0°♌41'34	
evening max el	9604 Jul 22 23:10	27°♌10'41	18°52'43
	9604 Jul 26 13:19	0°♍	
retrograde	9604 Jul 31 11:10	1°♍24'22	
evening set	9604 Aug 02 09:44	1°♍11'59	
	9604 Aug 05 16:47	30°℞♌	
desc. node	9604 Aug 08 09:17	28°♌25'12	
inferior conj	9604 Aug 10 14:19	26°♌53'29	-0°40'51
minimum elong	9604 Aug 10 12:37	26°♌56'33	0°40'25
min. Earth dist.	9604 Aug 13 15:44	24°♌43'19	0.56689 AU
morning rise	9604 Aug 18 12:14	21°♌56'14	
direct	9604 Aug 24 00:39	20°♌43'27	
morning max el	9604 Sep 07 06:53	28°♌05'52	26°11'38
	9604 Sep 09 04:06	0°♍	
	9604 Sep 29 05:10	0°♎	
asc. node	9604 Oct 01 04:25	3°♎50'02	
morning set	9604 Oct 05 16:29	13°♎07'17	
superior conj	9604 Oct 12 13:13	28°♎10'14	1°32'00
minimum elong	9604 Oct 12 11:34	28°♎01'04	1°32'01
	9604 Oct 13 09:02	0°♏	
max. Earth dist.	9604 Oct 13 07:39	29°♎52'18	1.31813 AU
evening rise	9604 Oct 19 11:57	13°♏15'29	
	9604 Oct 28 00:49	0°♐	
desc. node	9604 Nov 04 07:28	12°♐17'54	
	9604 Nov 17 17:19	0°♑	
evening max el	9604 Nov 20 01:37	2°♑20'47	27°16'18
retrograde	9604 Dec 03 22:23	9°♑33'21	
evening set	9604 Dec 10 22:59	7°♑19'40	
min. Earth dist.	9604 Dec 14 16:10	4°♑32'58	0.61294 AU
inferior conj	9604 Dec 17 17:49	1°♑51'10	-3°18'32
minimum elong	9604 Dec 18 00:16	1°♑36'56	3°15'55
	9604 Dec 19 21:56	30°℞♐	
morning rise	9604 Dec 25 04:00	26°♐55'12	
direct	9604 Dec 27 08:37	26°♐35'09	
asc. node	9604 Dec 28 04:07	26°♐38'00	
	9605 Jan 03 06:37	0°♑	
morning max el	9605 Jan 03 10:06	0°♑08'30	17°54'04
morning set	9605 Jan 19 01:54	24°♑41'13	
	9605 Jan 22 00:03	0°♒	
superior conj	9605 Jan 29 15:12	13°♒33'03	0°12'23
minimum elong	9605 Jan 29 16:17	13°♒37'47	0°12'30
behind sun begin	9605 Jan 29 11:03	13°♒15'07	
behind sun end	9605 Jan 29 21:31	14°♒00'25	
desc. node	9605 Jan 31 06:43	16°♒23'11	
max. Earth dist.	9605 Feb 06 02:03	26°♒07'00	1.42843 AU
	9605 Feb 08 11:17	0°♓	
evening rise	9605 Feb 12 10:33	6°♓19'44	
	9605 Feb 28 04:25	0°♈	
evening max el	9605 Mar 16 16:00	21°♈07'01	22°03'15
retrograde	9605 Mar 26 02:07	26°♈41'34	
asc. node	9605 Mar 26 02:43	26°♈41'34	
evening set	9605 Mar 30 15:44	24°♈49'37	
inferior conj	9605 Apr 04 23:13	18°♈29'33	2°42'51
minimum elong	9605 Apr 04 21:09	18°♈36'45	2°42'18
min. Earth dist.	9605 Apr 04 22:45	18°♈31'11	0.68527 AU
morning rise	9605 Apr 10 02:25	12°♈18'12	
direct	9605 Apr 14 22:30	10°♈14'29	
morning max el	9605 Apr 24 11:47	15°♈51'20	22°20'18
desc. node	9605 Apr 29 07:03	21°♈13'45	
	9605 May 06 00:42	0°♉	
	9605 May 26 02:05	0°♊	
morning set	9605 May 27 23:48	3°♊04'25	
max. Earth dist.	9605 Jun 02 02:55	11°♊33'46	1.40872 AU
superior conj	9605 Jun 09 21:41	25°♊04'54	-1°39'23
minimum elong	9605 Jun 10 03:46	25°♊32'05	1°39'02
	9605 Jun 12 15:03	0°♋	
evening rise	9605 Jun 20 04:20	14°♋01'33	
asc. node	9605 Jun 22 01:26	17°♋32'20	
	9605 Jun 29 01:24	0°♌	
evening max el	9605 Jul 06 05:32	9°♌41'21	18°18'57

retrograde	9605 Jul 13	13:26	13°♌22'27	
evening set	9605 Jul 15	18:41	13°♌02'58	
inferior conj	9605 Jul 23	03:42	8°♌24'06	0°55'09
minimum elong	9605 Jul 23	05:31	8°♌20'19	0°54'12
desc. node	9605 Jul 26	06:25	5°♌48'26	
min. Earth dist.	9605 Jul 26	12:39	5°♌36'01	0.58707 AU
morning rise	9605 Jul 30	12:58	2°♌51'47	
direct	9605 Aug 05	17:40	1°♌09'05	
morning max el	9605 Aug 20	02:56	8°♌54'22	27°21'04
	9605 Sep 05	04:54	0°♍	
asc. node	9605 Sep 18	01:19	23°♍32'41	
morning set	9605 Sep 20	00:43	27°♍39'21	
	9605 Sep 21	03:12	0°♎	
max. Earth dist.	9605 Sep 26	17:22	12°♎15'05	1.31530 AU
superior conj	9605 Sep 27	01:01	12°♎57'37	1°19'31
minimum elong	9605 Sep 26	22:52	12°♎45'38	1°19'17
evening rise	9605 Oct 03	19:16	27°♎48'00	
	9605 Oct 04	20:11	0°♏	
	9605 Oct 21	12:34	0°♐	
desc. node	9605 Oct 22	04:38	0°♐58'29	
evening max el	9605 Nov 02	02:21	14°♐05'46	26°28'21
retrograde	9605 Nov 16	00:27	21°♐12'08	
evening set	9605 Nov 22	15:57	19°♐23'33	
min. Earth dist.	9605 Nov 26	15:50	16°♐48'37	0.59182 AU
inferior conj	9605 Nov 29	20:16	14°♐22'17	-4°28'25
minimum elong	9605 Nov 30	03:59	14°♐07'28	4°26'03
morning rise	9605 Dec 07	18:34	9°♐48'26	
direct	9605 Dec 09	22:58	9°♐31'41	
asc. node	9605 Dec 15	01:10	11°♐08'19	
morning max el	9605 Dec 17	20:40	13°♐24'24	18°20'17
	9605 Dec 29	01:53	0°♑	
morning set	9606 Jan 02	16:32	8°♑39'01	
superior conj	9606 Jan 11	21:59	26°♑00'49	0°46'17
minimum elong	9606 Jan 12	00:58	26°♑14'27	0°46'10
	9606 Jan 14	02:47	0°♒	
desc. node	9606 Jan 18	03:38	7°♒06'43	
max. Earth dist.	9606 Jan 19	11:33	9°♒23'57	1.40851 AU
evening rise	9606 Jan 24	00:39	17°♒00'49	
	9606 Feb 01	05:03	0°♓	
	9606 Feb 22	20:48	0°♈	
evening max el	9606 Feb 27	07:20	4°♈51'46	23°23'08
retrograde	9606 Mar 09	21:11	11°♈06'56	
asc. node	9606 Mar 12	23:54	10°♈19'59	
evening set	9606 Mar 14	22:20	9°♈00'35	
inferior conj	9606 Mar 20	08:03	2°♈33'40	2°10'38
minimum elong	9606 Mar 20	05:51	2°♈41'16	2°10'00
min. Earth dist.	9606 Mar 19	19:32	3°♈16'44	0.68475 AU
	9606 Mar 22	05:50	30°℞♓	
morning rise	9606 Mar 25	13:19	26°♓28'00	
direct	9606 Mar 29	19:48	24°♓46'18	
morning max el	9606 Apr 07	04:26	29°♓34'09	20°57'43
	9606 Apr 07	14:40	0°♈	
desc. node	9606 Apr 16	03:55	10°♈25'58	
	9606 Apr 29	16:38	0°♉	
morning set	9606 May 07	12:30	12°♉01'23	
max. Earth dist.	9606 May 15	07:04	24°♉24'44	1.42904 AU
	9606 May 18	16:44	0°♊	
superior conj	9606 May 22	07:33	6°♊03'45	-2°02'43
minimum elong	9606 May 22	12:51	6°♊26'15	2°02'42
evening rise	9606 Jun 03	02:17	26°♊39'29	
	9606 Jun 04	23:13	0°♋	
asc. node	9606 Jun 08	22:29	7°♋00'13	
evening max el	9606 Jun 19	17:20	22°♋41'29	18°05'12
retrograde	9606 Jun 26	08:29	26°♋05'16	
evening set	9606 Jun 28	21:30	25°♋35'16	
inferior conj	9606 Jul 05	13:16	20°♋36'37	2°04'36
minimum elong	9606 Jul 05	16:09	20°♋29'36	2°03'27
min. Earth dist.	9606 Jul 08	17:38	17°♋33'06	0.60960 AU
morning rise	9606 Jul 12	08:12	14°♋39'17	
desc. node	9606 Jul 13	03:31	14°♋09'13	
direct	9606 Jul 18	23:05	12°♋27'12	
morning max el	9606 Aug 02	05:49	20°♋26'30	27°54'08
	9606 Aug 10	11:09	0°♌	
	9606 Aug 29	03:51	0°♍	
morning set	9606 Sep 04	04:31	11°♍56'11	
asc. node	9606 Sep 04	22:13	13°♍28'10	
max. Earth dist.	9606 Sep 10	01:53	24°♍31'57	1.31724 AU
superior conj	9606 Sep 11	11:49	27°♍38'48	1°01'54
minimum elong	9606 Sep 11	09:37	27°♍26'38	1°01'28
	9606 Sep 12	13:22	0°♎	
evening rise	9606 Sep 18	05:41	12°♎27'13	
	9606 Sep 27	00:07	0°♏	
desc. node	9606 Oct 09	01:49	18°♏40'18	
evening max el	9606 Oct 14	19:02	25°♏00'26	25°10'04
	9606 Oct 21	10:17	0°♐	
retrograde	9606 Oct 28	16:03	1°♐59'39	
evening set	9606 Nov 03	10:08	0°♐44'22	
	9606 Nov 04	23:50	30°℞♏	
min. Earth dist.	9606 Nov 08	06:53	28°♏03'28	0.57188 AU
inferior conj	9606 Nov 11	03:14	26°♏09'36	-5°22'21
minimum elong	9606 Nov 11	08:56	26°♏00'03	5°21'16
morning rise	9606 Nov 19	10:03	21°♏58'10	
direct	9606 Nov 21	19:26	21°♏41'30	
morning max el	9606 Nov 30	22:11	26°♏03'24	19°07'50
asc. node	9606 Dec 01	22:10	27°♏03'55	
	9606 Dec 04	09:53	0°♐	
morning set	9606 Dec 17	16:32	23°♐01'50	
	9606 Dec 21	04:40	0°♑	
superior conj	9606 Dec 25	22:49	9°♑19'22	1°11'39
minimum elong	9606 Dec 26	01:56	9°♑34'25	1°11'36
max. Earth dist.	9607 Jan 01	17:31	21°♑58'12	1.38669 AU
desc. node	9607 Jan 05	00:37	27°♑48'02	
evening rise	9607 Jan 05	12:34	28°♑39'48	
	9607 Jan 06	07:12	0°♒	
	9607 Jan 25	15:19	0°♓	
evening max el	9607 Feb 09	20:54	18°♓39'54	24°42'13
retrograde	9607 Feb 21	12:28	25°♓27'43	
evening set	9607 Feb 27	01:49	23°♓08'46	
asc. node	9607 Feb 27	21:03	22°♓25'01	
min. Earth dist.	9607 Mar 03	15:06	17°♓59'34	0.68012 AU
inferior conj	9607 Mar 04	15:16	16°♓39'18	1°29'30
minimum elong	9607 Mar 04	13:23	16°♓45'32	1°28'57
morning rise	9607 Mar 10	01:08	10°♓40'43	
direct	9607 Mar 13	18:52	9°♓20'32	
morning max el	9607 Mar 21	04:36	13°♓28'44	19°47'21
	9607 Apr 02	22:18	0°♈	
greatest brilliancy	9607 Apr 03	01:57	0°♈13'22	-0.6m
desc. node	9607 Apr 03	00:46	0°♈09'02	
morning set	9607 Apr 16	10:50	20°♈24'10	
	9607 Apr 22	15:20	0°♉	
max. Earth dist.	9607 Apr 27	18:08	8°♉03'32	1.44470 AU
superior conj	9607 May 02	16:56	15°♉59'19	-2°12'40
minimum elong	9607 May 02	17:19	16°♉00'51	2°12'53
	9607 May 11	05:18	0°♊	
evening rise	9607 May 16	04:56	8°♊24'36	
asc. node	9607 May 26	19:33	26°♊05'11	
	9607 May 29	10:00	0°♋	
evening max el	9607 Jun 03	07:00	6°♋01'33	18°10'24

retrograde	9607 Jun	09	15:55	9°♋22'39	
evening set	9607 Jun	12	12:40	8°♋39'45	
inferior conj	9607 Jun	18	15:00	3°♋22'38	2°49'01
minimum elong	9607 Jun	18	17:25	3°♋16'02	2°48'13
min. Earth dist.	9607 Jun	21	07:33	0°♋27'00	0.63159 AU
	9607 Jun	21	17:57	30°℞♊	
morning rise	9607 Jun	24	20:34	27°♊10'56	
desc. node	9607 Jun	30	00:36	24°♊45'09	
direct	9607 Jul	01	14:16	24°♊37'07	
	9607 Jul	12	17:16	0°♋	
morning max el	9607 Jul	15	13:35	2°♋40'05	27°48'57
	9607 Aug	04	20:31	0°♌	
morning set	9607 Aug	19	01:35	25°♌50'30	
	9607 Aug	21	02:36	0°♍	
asc. node	9607 Aug	22	19:07	3°♍30'51	
max. Earth dist.	9607 Aug	24	05:12	6°♍31'08	1.32411 AU
superior conj	9607 Aug	26	19:40	12°♍07'09	0°39'27
minimum elong	9607 Aug	26	17:57	11°♍57'49	0°38'58
evening rise	9607 Sep	02	17:13	27°♍06'31	
	9607 Sep	04	01:54	0°♎	
	9607 Sep	21	12:11	0°♏	
desc. node	9607 Sep	25	23:01	4°♏59'57	
evening max el	9607 Sep	26	06:19	5°♏17'47	23°33'05
retrograde	9607 Oct	09	18:45	12°♏02'43	
evening set	9607 Oct	14	03:58	11°♏20'51	
min. Earth dist.	9607 Oct	20	16:25	8°♏15'37	0.55610 AU
inferior conj	9607 Oct	22	14:00	7°♏08'08	-5°41'13
minimum elong	9607 Oct	22	13:06	7°♏09'27	5°41'01
morning rise	9607 Oct	31	00:10	3°♏14'44	
direct	9607 Nov	02	20:47	2°♏54'37	
morning max el	9607 Nov	13	11:12	7°♏54'34	20°18'00
asc. node	9607 Nov	18	19:09	14°♏08'31	
	9607 Nov	28	03:00	0°♐	
morning set	9607 Dec	01	22:40	7°♐39'41	
superior conj	9607 Dec	09	12:52	23°♐14'17	1°28'39
minimum elong	9607 Dec	09	15:10	23°♐25'52	1°28'47
	9607 Dec	12	22:29	0°♑	
max. Earth dist.	9607 Dec	15	00:27	4°♑01'26	1.36544 AU
evening rise	9607 Dec	18	20:20	11°♑10'11	
desc. node	9607 Dec	22	21:37	18°♑22'31	
	9607 Dec	29	21:44	0°♒	
	9608 Jan	21	00:12	0°♓	
evening max el	9608 Jan	23	10:16	2°♓28'42	25°53'32
retrograde	9608 Feb	04	22:53	9°♓37'54	
evening set	9608 Feb	11	00:32	7°♓09'07	
asc. node	9608 Feb	14	18:11	3°♓14'24	
min. Earth dist.	9608 Feb	15	07:07	2°♓34'40	0.67152 AU
inferior conj	9608 Feb	16	18:53	0°♓42'17	0°39'38
minimum elong	9608 Feb	16	17:54	0°♓45'24	0°39'26
	9608 Feb	17	08:23	30°℞♒	
morning rise	9608 Feb	22	11:50	24°♒52'43	
direct	9608 Feb	25	18:06	23°♒51'55	
morning max el	9608 Mar	03	12:23	27°♒32'43	18°52'19
	9608 Mar	05	18:44	0°♓	
desc. node	9608 Mar	19	21:38	20°♓14'37	
morning set	9608 Mar	25	18:35	29°♓22'05	
	9608 Mar	26	04:19	0°♈	
max. Earth dist.	9608 Apr	09	11:05	22°♈17'53	1.45393 AU
superior conj	9608 Apr	11	05:36	25°♈04'46	-2°03'31
minimum elong	9608 Apr	10	22:46	24°♈37'58	2°03'17
	9608 Apr	14	08:33	0°♉	
evening rise	9608 Apr	26	08:28	19°♉11'06	
	9608 May	03	00:55	0°♊	
asc. node	9608 May	12	16:38	14°♊39'54	
evening max el	9608 May	16	19:29	19°♊33'57	18°33'44
retrograde	9608 May	23	07:37	23°♊06'12	
evening set	9608 May	26	12:04	22°♊08'55	
inferior conj	9608 Jun	01	04:54	16°♊34'45	3°12'48
minimum elong	9608 Jun	01	06:10	16°♊30'56	3°12'20
min. Earth dist.	9608 Jun	03	06:36	14°♊05'19	0.65088 AU
morning rise	9608 Jun	06	23:26	10°♊16'34	
direct	9608 Jun	13	13:16	7°♊32'19	
desc. node	9608 Jun	15	21:37	7°♊50'45	
morning max el	9608 Jun	26	23:51	15°♊27'08	27°09'37
	9608 Jul	08	21:59	0°♋	
	9608 Jul	27	14:48	0°♌	
morning set	9608 Aug	01	13:12	9°♌15'22	
max. Earth dist.	9608 Aug	06	00:01	18°♌06'18	1.33597 AU
asc. node	9608 Aug	08	16:01	23°♌36'46	
superior conj	9608 Aug	09	22:30	26°♌16'52	0°12'39
minimum elong	9608 Aug	09	21:51	26°♌13'30	0°12'19
behind sun begin	9608 Aug	09	18:14	25°♌54'25	
behind sun end	9608 Aug	10	01:28	26°♌32'35	
	9608 Aug	11	16:34	0°♍	
evening rise	9608 Aug	17	04:02	11°♍40'41	
	9608 Aug	26	13:00	0°♎	
evening max el	9608 Sep	06	19:59	15°♎29'46	21°54'15
desc. node	9608 Sep	11	20:11	19°♎28'32	
retrograde	9608 Sep	19	09:57	21°♎45'09	
evening set	9608 Sep	22	08:34	21°♎25'47	
inferior conj	9608 Oct	01	09:41	17°♎26'51	-5°06'52
minimum elong	9608 Oct	01	01:29	17°♎38'18	5°05'15
min. Earth dist.	9608 Sep	30	23:55	17°♎40'30	0.54744 AU
morning rise	9608 Oct	09	19:45	13°♎39'01	
direct	9608 Oct	13	07:58	13°♎11'59	
morning max el	9608 Oct	25	10:54	18°♎55'37	21°49'20
	9608 Nov	03	08:02	0°♏	
asc. node	9608 Nov	04	16:05	2°♏07'16	
morning set	9608 Nov	15	08:29	22°♏25'54	
	9608 Nov	18	22:18	0°♐	
superior conj	9608 Nov	22	12:18	7°♐35'00	1°37'59
minimum elong	9608 Nov	22	13:24	7°♐40'42	1°38'16
max. Earth dist.	9608 Nov	26	13:13	15°♐54'43	1.34679 AU
evening rise	9608 Nov	30	20:25	24°♐22'54	
	9608 Dec	03	20:14	0°♑	
desc. node	9608 Dec	08	18:38	8°♑45'41	
	9608 Dec	22	11:18	0°♒	
evening max el	9609 Jan	04	23:43	16°♒10'54	26°49'37
retrograde	9609 Jan	18	03:38	23°♒30'33	
evening set	9609 Jan	24	16:36	20°♒56'11	
min. Earth dist.	9609 Jan	28	17:16	16°♒56'12	0.65918 AU
inferior conj	9609 Jan	30	16:49	14°♒37'46	-0°18'41
minimum elong	9609 Jan	30	17:20	14°♒36'16	0°18'12
asc. node	9609 Jan	31	15:19	13°♒32'50	
morning rise	9609 Feb	05	19:11	8°♒59'36	
direct	9609 Feb	08	15:30	8°♒15'02	
morning max el	9609 Feb	15	02:08	11°♒40'39	18°13'44
	9609 Feb	28	04:15	0°♓	
morning set	9609 Mar	06	04:52	9°♓41'20	
desc. node	9609 Mar	06	18:28	10°♓36'06	
	9609 Mar	18	22:40	0°♈	
superior conj	9609 Mar	21	11:19	3°♈58'17	-1°34'49
minimum elong	9609 Mar	21	01:47	3°♈20'55	1°33'51
max. Earth dist.	9609 Mar	23	06:59	6°♈49'21	1.45581 AU
evening rise	9609 Apr	06	13:05	29°♈03'42	
	9609 Apr	07	03:32	0°♉	
greatest brilliancy	9609 Apr	18	01:27	16°♉53'33	-0.7m
	9609 Apr	27	08:14	0°♊	

asc. node	9609 Apr 29 13:45	2°♊34'04	
evening max el	9609 Apr 30 04:21	3°♊11'57	19°14'18
retrograde	9609 May 07 04:05	7°♊07'53	
evening set	9609 May 10 16:37	5°♊55'32	
inferior conj	9609 May 16 03:25	0°♊05'55	3°20'09
minimum elong	9609 May 16 03:27	0°♊05'50	3°19'50
	9609 May 16 05:14	30°℞♉	
min. Earth dist.	9609 May 17 13:55	28°♉14'12	0.66624 AU
morning rise	9609 May 21 13:50	23°♉46'12	
direct	9609 May 27 18:54	21°♉02'54	
desc. node	9609 Jun 02 18:37	23°♉02'42	
morning max el	9609 Jun 09 10:22	28°♉35'59	26°03'45
	9609 Jun 10 18:36	0°♊	
	9609 Jul 02 16:44	0°♋	
morning set	9609 Jul 15 11:49	22°♋00'48	
max. Earth dist.	9609 Jul 19 08:19	29°♋18'10	1.35259 AU
	9609 Jul 19 16:58	0°♌	
superior conj	9609 Jul 24 17:45	10°♌00'39	-0°17'43
minimum elong	9609 Jul 24 18:48	10°♌05'59	0°17'47
asc. node	9609 Jul 26 12:56	13°♌41'35	
evening rise	9609 Aug 01 12:03	26°♌03'12	
	9609 Aug 03 10:20	0°♍	
evening max el	9609 Aug 19 20:19	26°♍10'11	20°28'02
	9609 Aug 24 19:23	0°♎	
desc. node	9609 Aug 29 17:21	1°♎36'05	
retrograde	9609 Aug 30 22:17	1°♎39'51	
evening set	9609 Sep 01 23:12	1°♎29'29	
	9609 Sep 06 12:58	30°℞♍	
inferior conj	9609 Sep 11 02:36	27°♍32'17	-3°39'34
minimum elong	9609 Sep 10 17:19	27°♍45'45	3°36'37
min. Earth dist.	9609 Sep 12 08:46	26°♍48'28	0.54786 AU
morning rise	9609 Sep 19 10:57	23°♍29'10	
direct	9609 Sep 23 16:35	22°♍50'41	
morning max el	9609 Oct 07 01:09	29°♍18'40	23°34'25
	9609 Oct 07 18:23	0°♎	
asc. node	9609 Oct 22 13:01	20°♎47'20	
	9609 Oct 27 08:16	0°♏	
morning set	9609 Oct 30 20:03	7°♏15'02	
superior conj	9609 Nov 06 18:08	22°♏12'49	1°40'27
minimum elong	9609 Nov 06 17:59	22°♏12'01	1°40'44
max. Earth dist.	9609 Nov 09 09:58	27°♏54'37	1.33203 AU
	9609 Nov 10 09:45	0°♐	
evening rise	9609 Nov 14 09:06	8°♐08'53	
desc. node	9609 Nov 25 15:41	28°♐52'00	
	9609 Nov 26 08:00	0°♑	
evening max el	9609 Dec 18 12:22	29°♑36'17	27°23'21
	9609 Dec 18 22:25	0°♒	
retrograde	9610 Jan 01 02:16	6°♒57'55	
evening set	9610 Jan 07 23:50	4°♒24'26	
min. Earth dist.	9610 Jan 11 19:31	0°♒57'06	0.64336 AU
	9610 Jan 12 17:21	30°℞♑	
inferior conj	9610 Jan 14 06:39	28°♑20'31	-1°24'39
minimum elong	9610 Jan 14 09:17	28°♑13'33	1°23'15
asc. node	9610 Jan 18 12:25	24°♑19'44	
morning rise	9610 Jan 20 20:29	22°♑56'27	
direct	9610 Jan 23 08:40	22°♑24'27	
morning max el	9610 Jan 29 19:14	25°♑45'48	17°52'06
	9610 Feb 02 09:50	0°♒	
morning set	9610 Feb 15 19:57	21°♒25'18	
	9610 Feb 20 22:43	0°♓	
desc. node	9610 Feb 21 15:19	1°♓08'57	
superior conj	9610 Mar 01 05:03	13°♓31'20	-0°53'49
minimum elong	9610 Feb 28 23:03	13°♓07'13	0°52'52
max. Earth dist.	9610 Mar 06 02:23	21°♓18'48	1.45027 AU
	9610 Mar 11 15:31	0°♈	
evening rise	9610 Mar 17 02:39	8°♈26'09	
	9610 Mar 31 10:19	0°♉	
greatest brilliancy	9610 Apr 01 00:54	0°♉53'12	-0.6m
evening max el	9610 Apr 13 08:02	16°♉52'15	20°10'29
asc. node	9610 Apr 16 10:52	19°♉35'37	
retrograde	9610 Apr 21 02:39	21°♉22'18	
evening set	9610 Apr 25 00:01	19°♉54'37	
inferior conj	9610 Apr 30 07:42	13°♉51'20	3°14'14
minimum elong	9610 Apr 30 06:40	13°♉54'52	3°13'54
min. Earth dist.	9610 May 01 03:50	12°♉42'54	0.67718 AU
morning rise	9610 May 05 13:03	7°♉33'17	
direct	9610 May 11 06:20	5°♉00'19	
desc. node	9610 May 20 15:35	9°♉51'02	
morning max el	9610 May 22 20:00	11°♉56'37	24°40'52
	9610 Jun 06 07:21	0°♊	
	9610 Jun 25 10:46	0°♋	
morning set	9610 Jun 27 16:53	3°♋55'21	
max. Earth dist.	9610 Jul 01 07:33	10°♋23'34	1.37312 AU
superior conj	9610 Jul 08 02:22	23°♋10'59	-0°50'12
minimum elong	9610 Jul 08 05:34	23°♋26'34	0°49'57
	9610 Jul 11 13:29	0°♌	
asc. node	9610 Jul 13 09:53	3°♌41'40	
evening rise	9610 Jul 16 14:55	10°♌07'45	
	9610 Jul 27 11:16	0°♍	
evening max el	9610 Aug 02 10:21	7°♍36'01	19°21'27
retrograde	9610 Aug 11 19:39	12°♍15'12	
evening set	9610 Aug 13 15:52	12°♍05'12	
desc. node	9610 Aug 16 14:32	11°♍11'21	
inferior conj	9610 Aug 22 07:09	7°♍57'19	-1°45'33
minimum elong	9610 Aug 22 02:26	8°♍05'01	1°43'53
min. Earth dist.	9610 Aug 24 21:15	6°♍16'07	0.55765 AU
morning rise	9610 Aug 30 10:17	3°♍21'19	
direct	9610 Sep 04 11:26	2°♍23'19	
morning max el	9610 Sep 18 13:11	9°♍29'34	25°18'44
	9610 Oct 03 22:05	0°♎	
asc. node	9610 Oct 09 09:55	9°♎58'01	
morning set	9610 Oct 15 07:38	22°♎01'22	
	9610 Oct 18 23:45	0°♏	
superior conj	9610 Oct 22 03:52	6°♏59'32	1°36'45
minimum elong	9610 Oct 22 02:40	6°♏52'59	1°36'53
max. Earth dist.	9610 Oct 23 13:54	10°♏06'28	1.32181 AU
evening rise	9610 Oct 29 07:07	22°♏18'58	
	9610 Nov 02 02:53	0°♐	
desc. node	9610 Nov 12 12:47	18°♐33'32	
	9610 Nov 20 04:52	0°♑	
evening max el	9610 Nov 30 22:27	12°♑32'18	27°28'21
retrograde	9610 Dec 14 18:01	19°♑49'43	
evening set	9610 Dec 21 19:19	17°♑25'57	
min. Earth dist.	9610 Dec 25 12:08	14°♑26'39	0.62461 AU
inferior conj	9610 Dec 28 09:27	11°♑42'40	-2°36'20
minimum elong	9610 Dec 28 14:34	11°♑30'33	2°34'01
morning rise	9611 Jan 04 12:07	6°♑35'37	
asc. node	9611 Jan 05 09:31	6°♑20'59	
direct	9611 Jan 06 18:30	6°♑12'20	
morning max el	9611 Jan 13 12:29	9°♑39'01	17°48'00
	9611 Jan 27 00:30	0°♒	
morning set	9611 Jan 29 10:21	4°♒15'42	
desc. node	9611 Feb 08 12:11	21°♒48'34	
superior conj	9611 Feb 09 22:14	24°♒12'19	-0°10'35
minimum elong	9611 Feb 09 21:13	24°♒08'02	0°10'12
behind sun begin	9611 Feb 09 14:14	23°♒38'38	
behind sun end	9611 Feb 10 04:12	24°♒37'22	
	9611 Feb 13 09:51	0°♓	

max. Earth dist.	9611 Feb 16 18:46	5°♓29'31	1.43800 AU
evening rise	9611 Feb 24 15:39	17°♓55'20	
	9611 Mar 04 14:07	0°♈	
	9611 Mar 26 17:05	0°♉	
evening max el	9611 Mar 27 06:12	0°♉33'48	21°19'32
asc. node	9611 Apr 03 08:03	5°♉29'43	
retrograde	9611 Apr 05 01:05	5°♉44'18	
evening set	9611 Apr 09 08:23	4°♉01'18	
	9611 Apr 13 00:21	30°℞♈	
inferior conj	9611 Apr 14 15:21	27°♈46'41	2°57'12
minimum elong	9611 Apr 14 13:33	27°♈52'56	2°56'44
min. Earth dist.	9611 Apr 14 22:12	27°♈22'51	0.68357 AU
morning rise	9611 Apr 19 18:31	21°♈32'19	
direct	9611 Apr 24 22:32	19°♈16'32	
morning max el	9611 May 05 05:44	25°♈23'55	23°11'12
desc. node	9611 May 07 12:30	27°♈49'37	
	9611 May 09 09:49	0°♉	
	9611 May 30 19:14	0°♊	
morning set	9611 Jun 08 23:02	14°♊45'17	
max. Earth dist.	9611 Jun 13 03:49	21°♊53'39	1.39573 AU
	9611 Jun 17 18:04	0°♋	
superior conj	9611 Jun 20 20:28	5°♋39'03	-1°22'23
minimum elong	9611 Jun 21 01:47	6°♋03'34	1°21'59
evening rise	9611 Jun 30 09:41	23°♋46'43	
asc. node	9611 Jun 30 06:53	23°♋33'14	
	9611 Jul 03 15:58	0°♌	
evening max el	9611 Jul 16 11:59	19°♌46'23	18°35'57
retrograde	9611 Jul 24 10:36	23°♌44'04	
evening set	9611 Jul 26 11:45	23°♌29'09	
inferior conj	9611 Aug 03 08:00	19°♌02'33	0°02'49
minimum elong	9611 Aug 03 08:06	19°♌02'22	0°02'31
transit middle	9611 Aug 03 08:06	19°♌02'22	0°02'31
transit begin	9611 Aug 03 04:31	19°♌09'12	
transit end	9611 Aug 03 11:40	18°♌55'32	
desc. node	9611 Aug 03 11:42	18°♌55'29	
min. Earth dist.	9611 Aug 06 14:37	16°♌33'36	0.57496 AU
morning rise	9611 Aug 11 00:55	13°♌49'30	
direct	9611 Aug 16 21:04	12°♌24'01	
morning max el	9611 Aug 31 05:12	19°♌57'45	26°45'03
	9611 Sep 08 19:28	0°♍	
asc. node	9611 Sep 26 06:50	29°♍31'11	
	9611 Sep 26 12:32	0°♎	
morning set	9611 Sep 29 17:37	6°♎40'21	
superior conj	9611 Oct 06 15:29	21°♎48'52	1°27'22
minimum elong	9611 Oct 06 13:34	21°♎38'13	1°27'16
max. Earth dist.	9611 Oct 06 22:33	22°♎28'08	1.31635 AU
	9611 Oct 10 08:22	0°♏	
evening rise	9611 Oct 13 11:46	6°♏45'53	
	9611 Oct 25 15:20	0°♐	
desc. node	9611 Oct 30 09:56	7°♐40'18	
evening max el	9611 Nov 13 03:36	24°♐47'04	27°00'03
	9611 Nov 20 02:24	0°♑	
retrograde	9611 Nov 27 01:31	1°♑57'00	
evening set	9611 Dec 03 23:17	29°♐53'05	
	9611 Dec 03 18:30	30°℞♐	
min. Earth dist.	9611 Dec 07 18:12	27°♐12'51	0.60399 AU
inferior conj	9611 Dec 10 21:52	24°♐35'41	-3°49'12
minimum elong	9611 Dec 11 05:06	24°♐20'36	3°46'32
morning rise	9611 Dec 18 13:27	19°♐48'35	
direct	9611 Dec 20 17:18	19°♐30'24	
asc. node	9611 Dec 23 06:35	19°♐56'54	
morning max el	9611 Dec 28 02:30	23°♐11'14	18°02'37
	9612 Jan 02 11:47	0°♑	
morning set	9612 Jan 12 17:42	17°♑53'34	
	9612 Jan 19 07:15	0°♒	
superior conj	9612 Jan 22 16:18	6°♒03'45	0°27'46
minimum elong	9612 Jan 22 18:28	6°♒13'19	0°27'44
desc. node	9612 Jan 26 09:05	12°♒31'33	
max. Earth dist.	9612 Jan 30 07:01	19°♒09'25	1.42040 AU
evening rise	9612 Feb 04 18:16	28°♒05'17	
	9612 Feb 05 23:04	0°♓	
	9612 Feb 26 06:12	0°♈	
evening max el	9612 Mar 08 23:41	14°♈17'20	22°37'02
retrograde	9612 Mar 18 21:39	20°♈09'26	
asc. node	9612 Mar 20 05:14	20°♈00'53	
evening set	9612 Mar 23 16:02	18°♈11'25	
inferior conj	9612 Mar 29 00:17	11°♈48'13	2°30'18
minimum elong	9612 Mar 28 22:06	11°♈55'47	2°29'42
min. Earth dist.	9612 Mar 28 18:42	12°♈07'36	0.68557 AU
morning rise	9612 Apr 03 04:02	5°♈39'03	
direct	9612 Apr 07 18:22	3°♈44'20	
morning max el	9612 Apr 16 18:44	8°♈59'22	21°43'54
desc. node	9612 Apr 23 09:23	16°♈38'52	
	9612 May 03 02:26	0°♉	
morning set	9612 May 19 02:12	24°♉20'09	
	9612 May 22 14:29	0°♊	
max. Earth dist.	9612 May 25 04:13	4°♊13'46	1.41778 AU
superior conj	9612 Jun 01 19:23	17°♊13'08	-1°50'29
minimum elong	9612 Jun 02 01:33	17°♊40'04	1°50'16
	9612 Jun 08 23:02	0°♋	
evening rise	9612 Jun 12 16:29	6°♋49'38	
asc. node	9612 Jun 16 03:54	13°♋11'00	
	9612 Jun 26 15:10	0°♌	
evening max el	9612 Jun 28 21:12	2°♌30'54	18°10'48
retrograde	9612 Jul 05 20:23	6°♌02'25	
evening set	9612 Jul 08 05:05	5°♌38'40	
inferior conj	9612 Jul 15 06:19	0°♌51'11	1°27'51
minimum elong	9612 Jul 15 08:50	0°♌45'33	1°26'42
	9612 Jul 16 05:08	30°℞♋	
min. Earth dist.	9612 Jul 18 14:30	27°♋53'51	0.59657 AU
desc. node	9612 Jul 20 08:50	26°♋29'18	
morning rise	9612 Jul 22 09:34	25°♋07'17	
direct	9612 Jul 28 19:40	23°♋11'34	
	9612 Aug 11 01:41	0°♌	
morning max el	9612 Aug 12 04:00	1°♌03'05	27°39'50
	9612 Sep 02 00:43	0°♍	
asc. node	9612 Sep 12 03:44	19°♍19'40	
morning set	9612 Sep 13 00:12	21°♍06'13	
	9612 Sep 17 03:41	0°♎	
max. Earth dist.	9612 Sep 19 08:16	4°♎49'49	1.31561 AU
superior conj	9612 Sep 20 03:04	6°♎34'04	1°12'40
minimum elong	9612 Sep 20 00:50	6°♎21'39	1°12'20
evening rise	9612 Sep 26 20:39	21°♎22'02	
	9612 Oct 01 00:17	0°♏	
desc. node	9612 Oct 16 07:06	25°♏57'59	
	9612 Oct 19 09:25	0°♐	
evening max el	9612 Oct 25 01:09	6°♐10'47	25°58'15
retrograde	9612 Nov 07 22:59	13°♐13'24	
evening set	9612 Nov 14 07:01	11°♐38'33	
min. Earth dist.	9612 Nov 18 13:54	9°♐03'21	0.58311 AU
inferior conj	9612 Nov 21 16:20	6°♐49'13	-4°54'13
minimum elong	9612 Nov 21 23:43	6°♐35'50	4°52'18
morning rise	9612 Nov 29 18:48	2°♐24'40	
direct	9612 Dec 02 00:44	2°♐08'15	
asc. node	9612 Dec 09 03:36	5°♐04'51	
morning max el	9612 Dec 10 09:34	6°♐12'09	18°37'44
	9612 Dec 25 11:14	0°♑	
morning set	9612 Dec 26 12:47	2°♑03'33	
superior conj	9613 Jan 04 07:22	18°♑54'43	0°58'06

minimum elong	9613 Jan 04 10:35	19°♑09'44	0°57'59
	9613 Jan 10 09:36	0°♒	
max. Earth dist.	9613 Jan 11 15:08	2°♒09'41	1.39938 AU
desc. node	9613 Jan 12 06:02	3°♒14'31	
evening rise	9613 Jan 15 17:41	9°♒11'17	
	9613 Jan 28 22:06	0°♓	
evening max el	9613 Feb 19 14:09	28°♓04'06	23°57'18
	9613 Feb 21 15:22	0°♈	
retrograde	9613 Mar 02 15:03	4°♈33'39	
asc. node	9613 Mar 07 02:23	2°♈59'11	
evening set	9613 Mar 07 21:28	2°♈21'38	
	9613 Mar 10 04:49	30°℞♓	
min. Earth dist.	9613 Mar 12 15:08	26°♓52'44	0.68331 AU
inferior conj	9613 Mar 13 08:38	25°♓53'19	1°54'16
minimum elong	9613 Mar 13 06:30	26°♓00'34	1°53'38
morning rise	9613 Mar 18 15:34	19°♓50'40	
direct	9613 Mar 22 16:34	18°♓18'12	
morning max el	9613 Mar 30 14:25	22°♓47'13	20°26'07
	9613 Apr 05 18:36	0°♈	
desc. node	9613 Apr 10 06:15	6°♈05'23	
	9613 Apr 26 08:54	0°♉	
morning set	9613 Apr 28 06:27	2°♉55'40	
max. Earth dist.	9613 May 07 12:00	17°♉28'49	1.43641 AU
superior conj	9613 May 13 18:56	27°♉44'55	-2°08'58
minimum elong	9613 May 13 22:42	28°♉00'32	2°09'06
	9613 May 15 03:24	0°♊	
evening rise	9613 May 26 06:50	19°♊06'29	
	9613 Jun 01 13:24	0°♋	
asc. node	9613 Jun 03 00:58	2°♋29'55	
evening max el	9613 Jun 12 10:10	15°♋40'14	18°05'06
retrograde	9613 Jun 18 21:23	19°♋01'13	
evening set	9613 Jun 21 13:45	18°♋25'52	
inferior conj	9613 Jun 27 23:15	13°♋18'49	2°26'15
minimum elong	9613 Jun 28 02:04	13°♋11'36	2°25'13
min. Earth dist.	9613 Jun 30 23:02	10°♋16'21	0.61916 AU
morning rise	9613 Jul 04 12:18	7°♋14'14	
desc. node	9613 Jul 07 05:55	5°♋41'29	
direct	9613 Jul 11 05:07	4°♋52'05	
morning max el	9613 Jul 25 09:20	12°♋53'34	27°56'34
	9613 Aug 08 00:32	0°♌	
	9613 Aug 25 10:53	0°♍	
morning set	9613 Aug 28 01:25	5°♍14'03	
asc. node	9613 Aug 30 00:38	9°♍18'31	
max. Earth dist.	9613 Sep 02 15:15	17°♍01'13	1.31961 AU
superior conj	9613 Sep 04 12:49	21°♍10'03	0°52'57
minimum elong	9613 Sep 04 10:45	20°♍58'42	0°52'29
	9613 Sep 08 13:11	0°♎	
evening rise	9613 Sep 11 07:46	6°♎01'48	
	9613 Sep 23 19:27	0°♏	
desc. node	9613 Oct 03 04:16	13°♏07'48	
evening max el	9613 Oct 06 14:45	16°♏46'00	24°30'01
retrograde	9613 Oct 20 08:58	23°♏40'23	
evening set	9613 Oct 25 14:31	22°♏39'41	
min. Earth dist.	9613 Oct 31 01:43	19°♏50'49	0.56452 AU
inferior conj	9613 Nov 02 14:27	18°♏15'12	-5°35'51
minimum elong	9613 Nov 02 17:52	18°♏09'49	5°35'22
morning rise	9613 Nov 10 23:22	14°♏12'45	
direct	9613 Nov 13 13:00	13°♏54'58	
morning max el	9613 Nov 23 06:03	18°♏31'29	19°34'58
asc. node	9613 Nov 26 00:36	21°♏31'32	
	9613 Dec 01 20:39	0°♐	
morning set	9613 Dec 10 15:44	16°♐33'50	
	9613 Dec 17 07:56	0°♑	
superior conj	9613 Dec 18 14:22	2°♑30'27	1°19'50
minimum elong	9613 Dec 18 17:13	2°♑44'28	1°19'53
max. Earth dist.	9613 Dec 24 21:07	14°♑29'40	1.37743 AU
evening rise	9613 Dec 28 14:21	21°♑12'45	
desc. node	9613 Dec 30 02:59	23°♑53'18	
	9614 Jan 02 17:08	0°♒	
	9614 Jan 22 21:27	0°♓	
evening max el	9614 Feb 02 03:20	11°♓52'35	25°13'52
retrograde	9614 Feb 14 04:21	18°♓50'59	
evening set	9614 Feb 19 23:06	16°♓27'06	
asc. node	9614 Feb 21 23:31	14°♓28'17	
min. Earth dist.	9614 Feb 24 09:19	11°♓32'59	0.67696 AU
inferior conj	9614 Feb 25 14:31	9°♓58'06	1°09'24
minimum elong	9614 Feb 25 12:57	10°♓03'13	1°08'58
morning rise	9614 Mar 03 03:08	4°♓03'24	
direct	9614 Mar 06 15:47	2°♓51'55	
morning max el	9614 Mar 13 18:02	6°♓46'48	19°22'02
greatest brilliancy	9614 Mar 26 13:49	23°♓39'31	-0.7m
desc. node	9614 Mar 28 03:05	25°♓58'43	
	9614 Mar 30 18:59	0°♈	
morning set	9614 Apr 07 05:47	11°♈24'58	
	9614 Apr 19 04:22	0°♉	
max. Earth dist.	9614 Apr 20 02:00	1°♉25'11	1.44948 AU
superior conj	9614 Apr 23 18:21	7°♉15'17	-2°11'19
minimum elong	9614 Apr 23 15:36	7°♉04'19	2°11'26
evening rise	9614 May 07 23:57	0°♊26'52	
	9614 May 07 17:29	0°♊	
asc. node	9614 May 20 22:01	21°♊22'49	
evening max el	9614 May 26 23:32	29°♊05'32	18°18'07
	9614 May 27 22:49	0°♋	
retrograde	9614 Jun 02 08:53	2°♋30'10	
evening set	9614 Jun 05 08:48	1°♋41'22	
	9614 Jun 07 17:15	30°℞♊	
inferior conj	9614 Jun 11 06:38	26°♊16'41	3°01'22
minimum elong	9614 Jun 11 08:35	26°♊11'04	3°00'43
min. Earth dist.	9614 Jun 13 17:00	23°♊30'14	0.64015 AU
morning rise	9614 Jun 17 07:07	20°♊01'07	
direct	9614 Jun 23 23:43	17°♊21'31	
desc. node	9614 Jun 24 02:58	17°♊21'34	
morning max el	9614 Jul 07 18:44	25°♊23'20	27°36'07
	9614 Jul 11 23:57	0°♋	
	9614 Aug 01 12:43	0°♌	
morning set	9614 Aug 11 18:53	18°♌57'07	
max. Earth dist.	9614 Aug 16 15:25	28°♌51'06	1.32848 AU
asc. node	9614 Aug 16 21:32	29°♌23'08	
	9614 Aug 17 04:33	0°♍	
superior conj	9614 Aug 19 18:48	5°♍31'08	0°28'35
minimum elong	9614 Aug 19 17:28	5°♍23'57	0°28'09
evening rise	9614 Aug 26 19:13	20°♍39'31	
	9614 Aug 31 07:35	0°♎	
evening max el	9614 Sep 18 01:44	26°♎56'24	22°50'19
desc. node	9614 Sep 20 01:26	28°♎44'30	
	9614 Sep 21 16:01	0°♏	
retrograde	9614 Oct 01 06:56	3°♏31'57	
evening set	9614 Oct 05 00:34	3°♏01'23	
	9614 Oct 11 20:27	30°℞♎	
min. Earth dist.	9614 Oct 12 10:03	29°♎40'45	0.55132 AU
inferior conj	9614 Oct 13 17:49	28°♎55'15	-5°33'51
minimum elong	9614 Oct 13 13:27	29°♎01'30	5°33'18
morning rise	9614 Oct 22 04:13	25°♎06'31	
direct	9614 Oct 25 06:49	24°♎44'07	
morning max el	9614 Nov 05 13:28	0°♏02'16	20°54'33
	9614 Nov 05 12:30	0°♏	
asc. node	9614 Nov 12 21:34	9°♏01'22	
	9614 Nov 24 08:53	0°♐	
morning set	9614 Nov 24 23:42	1°♐16'27	

superior conj	9614 Dec 02 08:53	16°♐38'26	1°33'29
minimum elong	9614 Dec 02 10:41	16°♐47'41	1°33'42
max. Earth dist.	9614 Dec 07 05:46	26°♐25'24	1.35706 AU
	9614 Dec 09 02:07	0°♑	
evening rise	9614 Dec 11 05:35	4°♑02'58	
desc. node	9614 Dec 16 24:00	14°♑23'56	
	9614 Dec 26 14:57	0°♒	
evening max el	9615 Jan 15 16:34	25°♒39'16	26°19'34
	9615 Jan 20 20:39	0°♓	
retrograde	9615 Jan 28 12:39	2°♓55'02	
evening set	9615 Feb 03 19:16	0°♓23'03	
	9615 Feb 04 06:08	30°℞♒	
min. Earth dist.	9615 Feb 07 23:09	26°♒03'21	0.66673 AU
asc. node	9615 Feb 08 20:39	24°♒58'05	
inferior conj	9615 Feb 09 16:00	23°♒58'45	0°15'56
minimum elong	9615 Feb 09 15:34	24°♒00'04	0°15'58
transit middle	9615 Feb 09 15:34	24°♒00'04	0°15'58
transit begin	9615 Feb 09 15:15	24°♒01'03	
transit end	9615 Feb 09 15:54	23°♒59'04	
morning rise	9615 Feb 15 12:42	18°♒13'47	
direct	9615 Feb 18 14:24	17°♒20'31	
morning max el	9615 Feb 25 04:41	20°♒53'44	18°33'47
	9615 Mar 04 10:39	0°♓	
desc. node	9615 Mar 14 23:56	16°♓11'47	
morning set	9615 Mar 17 23:32	20°♓54'03	
	9615 Mar 23 18:12	0°♈	
superior conj	9615 Apr 03 01:49	16°♈09'41	-1°53'27
minimum elong	9615 Apr 02 16:58	15°♈35'04	1°52'52
max. Earth dist.	9615 Apr 02 19:56	15°♈46'38	1.45566 AU
	9615 Apr 11 21:29	0°♉	
evening rise	9615 Apr 18 17:16	10°♉48'20	
greatest brilliancy	9615 Apr 27 07:11	24°♉25'14	-0.8m
	9615 Apr 30 21:38	0°♊	
asc. node	9615 May 07 19:05	9°♊41'30	
evening max el	9615 May 10 10:40	12°♊40'30	18°48'59
retrograde	9615 May 17 02:56	16°♊21'37	
evening set	9615 May 20 10:40	15°♊18'10	
inferior conj	9615 May 26 00:34	9°♊37'26	3°17'42
minimum elong	9615 May 26 01:18	9°♊35'09	3°17'19
min. Earth dist.	9615 May 27 19:51	7°♊22'38	0.65793 AU
morning rise	9615 May 31 15:15	3°♊17'55	
direct	9615 Jun 07 01:52	0°♊32'26	
desc. node	9615 Jun 10 23:59	1°♊24'02	
morning max el	9615 Jun 20 05:16	8°♊20'41	26°44'14
	9615 Jul 07 02:14	0°♋	
	9615 Jul 24 22:40	0°♌	
morning set	9615 Jul 26 01:26	2°♌06'19	
max. Earth dist.	9615 Jul 30 05:28	10°♌13'26	1.34238 AU
superior conj	9615 Aug 03 18:44	19°♌30'29	0°00'08
minimum elong	9615 Aug 03 18:44	19°♌30'31	0°00'07
behind sun begin	9615 Aug 03 13:01	19°♌00'48	
behind sun end	9615 Aug 04 00:27	20°♌00'16	
asc. node	9615 Aug 03 18:25	19°♌28'51	
	9615 Aug 08 18:23	0°♍	
evening rise	9615 Aug 11 05:05	5°♍08'59	
	9615 Aug 24 19:18	0°♎	
evening max el	9615 Aug 30 19:16	7°♎17'26	21°15'38
desc. node	9615 Sep 06 22:37	12°♎16'28	
retrograde	9615 Sep 11 19:32	13°♎14'50	
evening set	9615 Sep 14 06:28	13°♎00'51	
inferior conj	9615 Sep 23 10:34	9°♎04'39	-4°35'20
minimum elong	9615 Sep 23 00:57	9°♎18'10	4°32'54
min. Earth dist.	9615 Sep 23 18:13	8°♎53'54	0.54636 AU
morning rise	9615 Oct 01 20:02	5°♎12'34	
direct	9615 Oct 05 15:20	4°♎41'21	

morning max el	9615 Oct 18 08:27	10°♎45'01	22°32'59
asc. node	9615 Oct 30 18:31	27°♎19'13	
	9615 Nov 01 07:12	0°♏	
morning set	9615 Nov 09 10:29	16°♏04'27	
	9615 Nov 15 22:43	0°♐	
superior conj	9615 Nov 16 11:23	1°♐07'31	1°39'49
minimum elong	9615 Nov 16 11:56	1°♐10'27	1°40'07
max. Earth dist.	9615 Nov 19 21:38	8°♐19'06	1.34000 AU
evening rise	9615 Nov 24 11:29	17°♐31'20	
	9615 Dec 01 04:20	0°♑	
desc. node	9615 Dec 03 21:02	4°♑40'47	
	9615 Dec 20 22:47	0°♒	
evening max el	9615 Dec 29 05:58	9°♒16'11	27°07'06
retrograde	9616 Jan 11 15:04	16°♒37'48	
evening set	9616 Jan 18 07:54	14°♒03'09	
min. Earth dist.	9616 Jan 22 06:22	10°♒17'04	0.65285 AU
inferior conj	9616 Jan 24 10:50	7°♒49'53	-0°45'47
minimum elong	9616 Jan 24 12:11	7°♒46'06	0°44'56
asc. node	9616 Jan 26 17:46	5°♒21'38	
morning rise	9616 Jan 30 17:50	2°♒17'05	
direct	9616 Feb 02 10:23	1°♒38'21	
morning max el	9616 Feb 08 20:10	5°♒01'14	18°02'19
	9616 Feb 25 19:27	0°♓	
morning set	9616 Feb 26 22:31	1°♓51'03	
desc. node	9616 Feb 29 20:48	6°♓38'46	
superior conj	9616 Mar 12 10:36	25°♓14'55	-1°18'19
minimum elong	9616 Mar 12 02:02	24°♓41'04	1°17'15
	9616 Mar 15 10:59	0°♈	
max. Earth dist.	9616 Mar 15 15:41	0°♈18'29	1.45437 AU
evening rise	9616 Mar 28 14:00	20°♈24'12	
	9616 Apr 03 19:40	0°♉	
greatest brilliancy	9616 Apr 11 00:27	10°♉53'49	-0.7m
evening max el	9616 Apr 22 17:34	26°♉20'41	19°36'30
asc. node	9616 Apr 23 16:12	27°♉15'29	
	9616 Apr 27 16:05	0°♊	
retrograde	9616 Apr 30 00:30	0°♊29'43	
	9616 May 02 06:48	30°℞♉	
evening set	9616 May 03 16:41	29°♉10'55	
inferior conj	9616 May 09 01:52	23°♉15'32	3°19'04
minimum elong	9616 May 09 01:24	23°♉17'03	3°18'47
min. Earth dist.	9616 May 10 06:12	21°♉41'39	0.67150 AU
morning rise	9616 May 14 09:46	16°♉56'23	
direct	9616 May 20 10:15	14°♉16'12	
desc. node	9616 May 27 20:58	17°♉20'53	
morning max el	9616 Jun 01 15:13	21°♉35'05	25°29'53
	9616 Jun 08 22:39	0°♊	
	9616 Jun 29 07:51	0°♋	
morning set	9616 Jul 07 17:11	14°♋31'50	
max. Earth dist.	9616 Jul 11 09:14	21°♋18'48	1.36094 AU
	9616 Jul 15 21:19	0°♌	
superior conj	9616 Jul 17 09:56	3°♌01'36	-0°31'21
minimum elong	9616 Jul 17 11:51	3°♌11'12	0°31'16
asc. node	9616 Jul 20 15:22	9°♌32'25	
evening rise	9616 Jul 25 11:14	19°♌24'54	
	9616 Jul 30 19:35	0°♍	
evening max el	9616 Aug 12 01:32	18°♍16'42	19°57'10
retrograde	9616 Aug 22 09:40	23°♍23'56	
desc. node	9616 Aug 23 19:47	23°♍18'31	
evening set	9616 Aug 24 07:07	23°♍14'24	
inferior conj	9616 Sep 02 06:47	19°♍14'17	-2°52'21
minimum elong	9616 Sep 01 23:04	19°♍25'58	2°49'41
min. Earth dist.	9616 Sep 04 04:15	18°♍05'35	0.55099 AU
morning rise	9616 Sep 10 13:31	14°♍58'56	
direct	9616 Sep 15 03:39	14°♍13'00	

morning max el	9616 Sep 28 20:34	20°♍58'02	24°19'53
	9616 Oct 06 15:22	0°♎	
asc. node	9616 Oct 16 15:27	16°♎13'22	
morning set	9616 Oct 23 22:17	0°♏52'42	
	9616 Oct 23 12:23	0°♏	
superior conj	9616 Oct 30 19:08	15°♏49'31	1°39'37
minimum elong	9616 Oct 30 18:31	15°♏46'08	1°39'50
max. Earth dist.	9616 Nov 01 21:50	20°♏24'25	1.32717 AU
	9616 Nov 06 11:10	0°♐	
evening rise	9616 Nov 07 04:32	1°♐28'30	
desc. node	9616 Nov 19 18:06	24°♐37'31	
	9616 Nov 23 02:30	0°♑	
evening max el	9616 Dec 10 18:03	22°♑31'26	27°29'22
retrograde	9616 Dec 24 10:39	29°♑50'55	
evening set	9616 Dec 31 10:31	27°♑20'45	
min. Earth dist.	9617 Jan 04 04:47	24°♑05'55	0.63573 AU
inferior conj	9617 Jan 06 20:23	21°♑25'03	-1°54'33
minimum elong	9617 Jan 07 00:03	21°♑15'45	1°52'43
asc. node	9617 Jan 12 14:55	16°♑35'49	
morning rise	9617 Jan 13 15:32	16°♑07'31	
direct	9617 Jan 16 01:00	15°♑39'34	
morning max el	9617 Jan 22 13:40	19°♑01'57	17°48'05
	9617 Jan 30 16:01	0°♒	
morning set	9617 Feb 08 00:23	14°♒06'10	
desc. node	9617 Feb 15 17:40	27°♒15'00	
	9617 Feb 17 09:11	0°♓	
superior conj	9617 Feb 20 13:29	5°♓14'38	-0°35'12
minimum elong	9617 Feb 20 09:42	4°♓59'08	0°34'28
max. Earth dist.	9617 Feb 26 10:35	14°♓43'48	1.44586 AU
evening rise	9617 Mar 08 01:25	29°♓45'09	
	9617 Mar 08 05:17	0°♈	
	9617 Mar 28 14:00	0°♉	
evening max el	9617 Apr 05 18:59	10°♉02'00	20°38'33
asc. node	9617 Apr 10 13:22	13°♉50'36	
retrograde	9617 Apr 13 23:10	14°♉48'14	
evening set	9617 Apr 18 00:44	13°♉13'50	
inferior conj	9617 Apr 23 07:51	7°♉05'31	3°08'14
minimum elong	9617 Apr 23 06:26	7°♉10'20	3°07'52
min. Earth dist.	9617 Apr 23 22:09	6°♉16'18	0.68050 AU
morning rise	9617 Apr 28 11:56	0°♉49'07	
	9617 Apr 29 11:53	30°℞♈	
direct	9617 May 03 23:45	28°♈22'56	
	9617 May 09 00:06	0°♉	
desc. node	9617 May 14 17:56	4°♉41'59	
morning max el	9617 May 15 00:34	4°♉58'40	24°02'58
	9617 Jun 03 06:59	0°♊	
morning set	9617 Jun 19 13:04	26°♊00'05	
	9617 Jun 21 20:14	0°♋	
max. Earth dist.	9617 Jun 23 06:42	2°♋32'32	1.38273 AU
superior conj	9617 Jun 30 12:52	15°♋55'09	-1°04'04
minimum elong	9617 Jun 30 17:01	16°♋14'55	1°03'44
asc. node	9617 Jul 07 12:19	29°♋29'25	
	9617 Jul 07 18:31	0°♌	
evening rise	9617 Jul 09 11:03	3°♌19'41	
	9617 Jul 25 20:11	0°♍	
evening max el	9617 Jul 25 20:50	0°♍01'37	18°59'25
retrograde	9617 Aug 03 14:05	4°♍21'38	
evening set	9617 Aug 05 11:49	4°♍10'01	
desc. node	9617 Aug 10 16:58	1°♍57'19	
inferior conj	9617 Aug 13 19:17	29°♌54'16	-0°57'23
minimum elong	9617 Aug 13 16:50	29°♌58'34	0°56'37
	9617 Aug 13 16:00	30°℞♌	
min. Earth dist.	9617 Aug 16 18:13	27°♌51'15	0.56431 AU
morning rise	9617 Aug 21 18:41	25°♌02'32	
direct	9617 Aug 27 04:13	23°♌53'52	
	9617 Sep 09 02:19	0°♍	
morning max el	9617 Sep 10 09:38	1°♍12'17	25°58'47
	9617 Sep 30 14:32	0°♎	
asc. node	9617 Oct 03 12:23	5°♎34'28	
morning set	9617 Oct 08 09:24	15°♎36'29	
	9617 Oct 14 23:04	0°♏	
superior conj	9617 Oct 15 05:54	0°♏37'48	1°33'27
minimum elong	9617 Oct 15 04:21	0°♏29'16	1°33'28
max. Earth dist.	9617 Oct 16 04:20	2°♏41'56	1.31889 AU
evening rise	9617 Oct 22 05:39	15°♏46'21	
	9617 Oct 29 10:18	0°♐	
desc. node	9617 Nov 06 15:13	14°♐05'51	
	9617 Nov 18 04:29	0°♑	
evening max el	9617 Nov 23 02:22	5°♑11'31	27°20'33
retrograde	9617 Dec 06 22:51	12°♑25'30	
evening set	9617 Dec 13 23:56	10°♑08'47	
min. Earth dist.	9617 Dec 17 16:46	7°♑19'17	0.61599 AU
inferior conj	9617 Dec 20 17:32	4°♑36'22	-3°07'29
minimum elong	9617 Dec 20 23:39	4°♑22'36	3°04'55
	9617 Dec 27 01:46	30°℞♐	
morning rise	9617 Dec 28 01:47	29°♐37'34	
direct	9617 Dec 30 06:46	29°♐16'47	
asc. node	9617 Dec 30 12:01	29°♐17'00	
	9618 Jan 02 09:49	0°♑	
morning max el	9618 Jan 06 06:01	2°♑48'01	17°51'55
morning set	9618 Jan 21 22:47	27°♑19'45	
	9618 Jan 23 10:15	0°♒	
superior conj	9618 Feb 01 17:39	16°♒27'33	0°06'33
minimum elong	9618 Feb 01 18:15	16°♒30'11	0°06'43
behind sun begin	9618 Feb 01 10:30	15°♒56'50	
behind sun end	9618 Feb 02 02:00	17°♒03'26	
desc. node	9618 Feb 02 14:33	17°♒57'03	
max. Earth dist.	9618 Feb 09 01:51	28°♒45'23	1.43107 AU
	9618 Feb 09 20:10	0°♓	
evening rise	9618 Feb 15 18:55	9°♓29'19	
	9618 Mar 01 09:02	0°♈	
evening max el	9618 Mar 19 14:56	23°♈44'23	21°51'39
asc. node	9618 Mar 28 10:33	29°♈11'53	
retrograde	9618 Mar 28 21:03	29°♈12'51	
evening set	9618 Apr 02 09:00	27°♈23'08	
inferior conj	9618 Apr 07 16:17	21°♈04'15	2°46'56
minimum elong	9618 Apr 07 14:17	21°♈11'16	2°46'24
min. Earth dist.	9618 Apr 07 17:40	20°♈59'26	0.68500 AU
morning rise	9618 Apr 12 19:24	14°♈52'03	
direct	9618 Apr 17 17:29	12°♈45'13	
morning max el	9618 Apr 27 11:26	18°♈30'03	22°33'16
desc. node	9618 May 01 14:51	23°♈04'30	
	9618 May 07 01:54	0°♉	
	9618 May 27 10:04	0°♊	
morning set	9618 May 31 07:59	6°♊18'39	
max. Earth dist.	9618 Jun 05 04:20	14°♊23'13	1.40541 AU
superior conj	9618 Jun 12 23:19	28°♊01'11	-1°35'07
minimum elong	9618 Jun 13 05:15	28°♊27'57	1°34'44
	9618 Jun 14 01:34	0°♋	
evening rise	9618 Jun 23 01:14	16°♋44'46	
asc. node	9618 Jun 24 09:19	19°♋15'48	
	9618 Jun 30 06:36	0°♌	
evening max el	9618 Jul 09 02:04	12°♌27'15	18°22'43
retrograde	9618 Jul 16 13:30	16°♌12'17	
evening set	9618 Jul 18 17:35	15°♌54'09	
inferior conj	9618 Jul 26 05:28	11°♌18'30	0°42'12
minimum elong	9618 Jul 26 06:54	11°♌15'33	0°41'24
desc. node	9618 Jul 28 14:07	9°♌22'23	

min. Earth dist.	9618 Jul 29	14:15	8°♌34'35	0.58381 AU
morning rise	9618 Aug 02	16:45	5°♌50'46	
direct	9618 Aug 08	19:22	4°♌12'30	
morning max el	9618 Aug 23	04:39	11°♌55'24	27°12'54
	9618 Sep 06	08:17	0°♍	
asc. node	9618 Sep 20	09:15	25°♍14'53	
morning set	9618 Sep 22	18:08	0°♎10'35	
	9618 Sep 22	16:07	0°♎	
superior conj	9618 Sep 29	17:41	15°♎25'56	1°21'45
minimum elong	9618 Sep 29	15:34	15°♎14'13	1°21'33
max. Earth dist.	9618 Sep 29	13:51	15°♎04'37	1.31537 AU
	9618 Oct 06	09:00	0°♏	
evening rise	9618 Oct 06	12:18	0°♏17'35	
	9618 Oct 22	14:03	0°♐	
desc. node	9618 Oct 24	12:21	2°♐53'51	
evening max el	9618 Nov 05	04:14	17°♐04'12	26°37'39
retrograde	9618 Nov 19	02:29	24°♐11'50	
evening set	9618 Nov 25	19:55	22°♐18'55	
min. Earth dist.	9618 Nov 29	18:04	19°♐43'11	0.59492 AU
inferior conj	9618 Dec 02	22:38	17°♐13'23	-4°18'31
minimum elong	9618 Dec 03	06:19	16°♐58'19	4°16'02
morning rise	9618 Dec 10	19:19	12°♐36'08	
direct	9618 Dec 12	23:20	12°♐19'11	
asc. node	9618 Dec 17	09:05	13°♐33'13	
morning max el	9618 Dec 20	17:37	16°♐08'37	18°15'04
	9618 Dec 30	10:02	0°♑	
morning set	9619 Jan 05	11:39	11°♑12'43	
superior conj	9619 Jan 14	21:17	28°♑46'26	0°41'39
minimum elong	9619 Jan 15	00:07	28°♑59'15	0°41'33
	9619 Jan 15	13:33	0°♒	
desc. node	9619 Jan 20	11:27	8°♒40'38	
max. Earth dist.	9619 Jan 22	11:51	12°♒07'55	1.41166 AU
evening rise	9619 Jan 27	05:54	20°♒02'08	
	9619 Feb 02	12:21	0°♓	
	9619 Feb 23	16:36	0°♈	
evening max el	9619 Mar 02	06:44	7°♈28'52	23°11'07
retrograde	9619 Mar 12	16:35	13°♈38'25	
asc. node	9619 Mar 15	07:43	13°♈04'41	
evening set	9619 Mar 17	15:55	11°♈34'16	
min. Earth dist.	9619 Mar 22	14:29	5°♈45'07	0.68511 AU
inferior conj	9619 Mar 23	01:12	5°♈08'07	2°16'08
minimum elong	9619 Mar 22	22:59	5°♈15'46	2°15'30
	9619 Mar 27	04:09	30°℞♓	
morning rise	9619 Mar 28	05:59	29°♓01'23	
direct	9619 Apr 01	14:27	27°♓16'17	
	9619 Apr 07	17:14	0°♈	
morning max el	9619 Apr 10	03:03	2°♈11'05	21°09'15
desc. node	9619 Apr 18	11:43	12°♈11'21	
	9619 Apr 30	22:47	0°♉	
morning set	9619 May 11	00:12	15°♉25'03	
max. Earth dist.	9619 May 18	07:16	27°♉05'50	1.42624 AU
	9619 May 20	01:42	0°♊	
superior conj	9619 May 25	12:42	9°♊09'47	-1°59'54
minimum elong	9619 May 25	18:21	9°♊33'58	1°59'49
evening rise	9619 Jun 06	01:38	29°♊29'49	
	9619 Jun 06	08:21	0°♋	
asc. node	9619 Jun 11	06:20	8°♋46'40	
evening max el	9619 Jun 22	13:21	25°♋24'10	18°06'05
retrograde	9619 Jun 29	06:13	28°♋49'23	
evening set	9619 Jul 01	18:07	28°♋21'06	
inferior conj	9619 Jul 08	12:14	23°♋25'27	1°55'45
minimum elong	9619 Jul 08	15:05	23°♋18'40	1°54'34
min. Earth dist.	9619 Jul 11	17:54	20°♋22'42	0.60621 AU
morning rise	9619 Jul 15	09:19	17°♋31'16	
desc. node	9619 Jul 15	11:13	17°♋28'13	
direct	9619 Jul 21	23:16	15°♋23'07	
morning max el	9619 Aug 05	06:29	23°♋20'50	27°51'38
	9619 Aug 11	05:13	0°♌	
	9619 Aug 30	13:38	0°♍	
morning set	9619 Sep 06	22:40	14°♍30'05	
asc. node	9619 Sep 07	06:07	15°♍08'50	
max. Earth dist.	9619 Sep 12	22:42	27°♍22'58	1.31666 AU
superior conj	9619 Sep 14	04:43	0°♎08'36	1°04'53
minimum elong	9619 Sep 14	02:29	29°♍56'17	1°04'30
	9619 Sep 14	03:10	0°♎	
evening rise	9619 Sep 20	22:22	14°♎56'21	
	9619 Sep 28	08:45	0°♏	
desc. node	9619 Oct 11	09:30	20°♏45'47	
evening max el	9619 Oct 17	22:08	28°♏06'08	25°23'17
	9619 Oct 20	01:18	0°♐	
retrograde	9619 Oct 31	19:37	5°♐06'16	
evening set	9619 Nov 06	17:39	3°♐45'56	
min. Earth dist.	9619 Nov 11	10:18	1°♐06'59	0.57469 AU
	9619 Nov 13	01:59	30°℞♏	
inferior conj	9619 Nov 14	08:34	29°♏07'28	-5°15'57
minimum elong	9619 Nov 14	14:53	28°♏56'42	5°14'40
morning rise	9619 Nov 22	14:26	24°♏52'36	
direct	9619 Nov 24	22:41	24°♏36'08	
morning max el	9619 Dec 03	20:36	28°♏53'14	18°59'18
asc. node	9619 Dec 04	06:05	29°♏16'29	
	9619 Dec 04	22:51	0°♐	
morning set	9619 Dec 20	10:26	25°♐32'09	
	9619 Dec 22	16:38	0°♑	
superior conj	9619 Dec 28	19:40	11°♑57'44	1°08'20
minimum elong	9619 Dec 28	22:51	12°♑12'57	1°08'17
max. Earth dist.	9620 Jan 04	18:04	24°♑47'47	1.38999 AU
desc. node	9620 Jan 07	08:23	29°♑22'14	
	9620 Jan 07	17:06	0°♒	
evening rise	9620 Jan 08	14:32	1°♒32'22	
	9620 Jan 26	18:53	0°♓	
evening max el	9620 Feb 12	20:28	21°♓16'45	24°30'49
retrograde	9620 Feb 24	08:23	28°♓00'06	
evening set	9620 Feb 29	19:55	25°♓42'57	
asc. node	9620 Mar 01	04:53	25°♓23'14	
min. Earth dist.	9620 Mar 05	10:20	20°♓28'36	0.68107 AU
inferior conj	9620 Mar 06	08:44	19°♓13'43	1°36'21
minimum elong	9620 Mar 06	06:46	19°♓20'16	1°35'45
morning rise	9620 Mar 11	17:45	13°♓13'57	
direct	9620 Mar 15	13:21	11°♓50'33	
morning max el	9620 Mar 23	01:57	16°♓03'44	19°56'55
	9620 Apr 03	01:52	0°♈	
desc. node	9620 Apr 04	08:35	1°♈50'30	
morning set	9620 Apr 18	23:21	23°♈49'04	
	9620 Apr 22	23:09	0°♉	
max. Earth dist.	9620 Apr 29	17:32	10°♉39'08	1.44276 AU
superior conj	9620 May 05	01:44	19°♉14'52	-2°12'17
minimum elong	9620 May 05	03:08	19°♉20'32	2°12'31
	9620 May 11	14:07	0°♊	
evening rise	9620 May 18	07:27	11°♊23'31	
asc. node	9620 May 28	03:22	27°♊55'37	
	9620 May 29	11:07	0°♋	
evening max el	9620 Jun 05	02:56	8°♋41'53	18°08'26
retrograde	9620 Jun 11	12:04	12°♋02'23	
evening set	9620 Jun 14	07:43	11°♋21'26	
inferior conj	9620 Jun 20	11:47	6°♋06'52	2°43'44
minimum elong	9620 Jun 20	14:20	6°♋00'01	2°42'50
min. Earth dist.	9620 Jun 23	06:20	3°♋08'54	0.62846 AU
morning rise	9620 Jun 26	19:14	29°♊56'52	

	9620 Jun 26 17:34	30°℞♊	
desc. node	9620 Jul 01 08:19	27°♊41'19	
direct	9620 Jul 03 12:58	27°♊25'45	
	9620 Jul 11 00:12	0°♋	
morning max el	9620 Jul 17 13:36	5°♋28'21	27°52'04
	9620 Aug 05 02:04	0°♌	
morning set	9620 Aug 20 20:52	28°♌28'04	
	9620 Aug 21 14:59	0°♍	
asc. node	9620 Aug 24 02:59	5°♍10'36	
max. Earth dist.	9620 Aug 26 03:04	9°♍25'39	1.32280 AU
superior conj	9620 Aug 28 13:06	14°♍39'09	0°43'09
minimum elong	9620 Aug 28 11:16	14°♍29'11	0°42'41
evening rise	9620 Sep 04 09:50	29°♍36'03	
	9620 Sep 04 14:19	0°♎	
	9620 Sep 21 05:39	0°♏	
desc. node	9620 Sep 27 06:40	7°♏19'31	
evening max el	9620 Sep 28 09:49	8°♏27'22	23°48'00
retrograde	9620 Oct 12 00:01	15°♏14'53	
evening set	9620 Oct 16 14:46	14°♏28'26	
min. Earth dist.	9620 Oct 22 20:13	11°♏27'59	0.55810 AU
inferior conj	9620 Oct 24 22:09	10°♏13'02	-5°41'30
minimum elong	9620 Oct 24 22:28	10°♏12'33	5°41'17
morning rise	9620 Nov 02 08:08	6°♏17'34	
direct	9620 Nov 05 02:52	5°♏58'06	
morning max el	9620 Nov 15 11:33	10°♏51'43	20°06'09
asc. node	9620 Nov 20 03:02	16°♏11'39	
	9620 Nov 28 12:46	0°♐	
morning set	9620 Dec 03 15:48	10°♐08'27	
superior conj	9620 Dec 11 07:59	25°♐48'06	1°26'34
minimum elong	9620 Dec 11 10:26	26°♐00'25	1°26'42
	9620 Dec 13 10:41	0°♑	
max. Earth dist.	9620 Dec 17 00:45	6°♑55'32	1.36848 AU
evening rise	9620 Dec 20 19:32	13°♑55'40	
desc. node	9620 Dec 24 05:21	19°♑58'07	
	9620 Dec 30 05:15	0°♒	
	9621 Jan 20 15:22	0°♓	
evening max el	9621 Jan 25 09:50	5°♓06'08	25°43'43
retrograde	9621 Feb 06 19:32	12°♓12'39	
evening set	9621 Feb 12 19:26	9°♓45'01	
asc. node	9621 Feb 16 02:01	6°♓22'04	
min. Earth dist.	9621 Feb 17 02:57	5°♓05'34	0.67305 AU
inferior conj	9621 Feb 18 13:00	3°♓17'34	0°47'48
minimum elong	9621 Feb 18 11:51	3°♓21'15	0°47'31
	9621 Feb 21 06:46	30°℞♒	
morning rise	9621 Feb 24 04:45	27°♒26'40	
direct	9621 Feb 27 12:40	26°♒23'08	
	9621 Mar 06 05:50	0°♓	
morning max el	9621 Mar 06 08:43	0°♓07'02	18°59'33
greatest brilliancy	9621 Mar 20 02:47	18°♓39'49	-0.8m
desc. node	9621 Mar 22 05:26	21°♓53'20	
	9621 Mar 27 11:29	0°♈	
morning set	9621 Mar 29 04:17	2°♈38'16	
max. Earth dist.	9621 Apr 12 10:06	24°♈50'45	1.45303 AU
superior conj	9621 Apr 14 16:51	28°♈26'05	-2°06'14
minimum elong	9621 Apr 14 11:00	28°♈03'01	2°06'07
	9621 Apr 15 16:40	0°♉	
evening rise	9621 Apr 29 14:36	22°♉19'18	
	9621 May 04 07:39	0°♊	
asc. node	9621 May 15 00:27	16°♊35'41	
evening max el	9621 May 19 15:45	22°♊12'57	18°29'04
retrograde	9621 May 26 02:50	25°♊42'46	
evening set	9621 May 29 06:08	24°♊47'40	
inferior conj	9621 Jun 04 00:08	19°♊15'49	3°10'18
minimum elong	9621 Jun 04 01:35	19°♊11'28	3°09'47
min. Earth dist.	9621 Jun 06 04:04	16°♊41'39	0.64825 AU
morning rise	9621 Jun 09 20:08	12°♊58'05	
direct	9621 Jun 16 10:49	10°♊14'51	
desc. node	9621 Jun 18 05:22	10°♊25'20	
morning max el	9621 Jun 29 23:47	18°♊11'40	27°17'22
	9621 Jul 09 21:44	0°♋	
	9621 Jul 29 00:27	0°♌	
morning set	9621 Aug 04 10:07	11°♌57'48	
max. Earth dist.	9621 Aug 08 23:26	21°♌04'59	1.33391 AU
asc. node	9621 Aug 10 23:53	25°♌16'11	
superior conj	9621 Aug 12 16:49	28°♌51'55	0°16'58
minimum elong	9621 Aug 12 15:59	28°♌47'26	0°16'36
	9621 Aug 13 05:38	0°♍	
evening rise	9621 Aug 19 20:53	14°♍11'20	
	9621 Aug 27 19:25	0°♎	
evening max el	9621 Sep 09 22:27	18°♎37'31	22°08'24
desc. node	9621 Sep 14 03:52	22°♎07'03	
retrograde	9621 Sep 22 16:47	24°♎58'50	
evening set	9621 Sep 25 20:04	24°♎36'58	
min. Earth dist.	9621 Oct 04 03:41	20°♎58'35	0.54815 AU
inferior conj	9621 Oct 04 19:27	20°♎36'27	-5°15'48
minimum elong	9621 Oct 04 12:05	20°♎46'48	5°14'31
morning rise	9621 Oct 13 05:40	16°♎49'11	
direct	9621 Oct 16 15:20	16°♎23'30	
morning max el	9621 Oct 28 13:10	22°♎00'18	21°34'40
	9621 Nov 04 07:31	0°♏	
asc. node	9621 Nov 06 24:00	4°♏03'21	
morning set	9621 Nov 18 01:12	24°♏54'10	
	9621 Nov 20 11:19	0°♐	
superior conj	9621 Nov 25 06:15	10°♐06'01	1°37'02
minimum elong	9621 Nov 25 07:32	10°♐12'41	1°37'17
max. Earth dist.	9621 Nov 29 12:25	18°♐49'21	1.34930 AU
evening rise	9621 Dec 03 17:25	27°♐02'53	
	9621 Dec 05 07:03	0°♑	
desc. node	9621 Dec 11 02:21	10°♑23'28	
	9621 Dec 23 13:32	0°♒	
evening max el	9622 Jan 07 23:12	18°♒49'41	26°42'30
retrograde	9622 Jan 21 01:12	26°♒08'44	
evening set	9622 Jan 27 12:39	23°♒34'41	
min. Earth dist.	9622 Jan 31 14:05	19°♒29'46	0.66124 AU
inferior conj	9622 Feb 02 11:56	17°♒14'37	-0°09'19
minimum elong	9622 Feb 02 12:12	17°♒13'52	0°08'57
transit middle	9622 Feb 02 12:12	17°♒13'52	0°08'57
transit begin	9622 Feb 02 09:46	17°♒21'04	
transit end	9622 Feb 02 14:38	17°♒06'41	
asc. node	9622 Feb 02 23:11	16°♒41'32	
morning rise	9622 Feb 08 12:47	11°♒34'42	
direct	9622 Feb 11 10:26	10°♒48'01	
morning max el	9622 Feb 17 21:47	14°♒15'12	18°18'27
	9622 Mar 01 10:18	0°♓	
morning set	9622 Mar 09 10:06	12°♓44'10	
desc. node	9622 Mar 09 02:16	12°♓12'46	
	9622 Mar 20 06:46	0°♈	
superior conj	9622 Mar 24 22:23	7°♈18'10	-1°40'13
minimum elong	9622 Mar 24 12:48	6°♈40'37	1°39'18
max. Earth dist.	9622 Mar 26 05:36	9°♈20'21	1.45600 AU
	9622 Apr 08 10:51	0°♉	
evening rise	9622 Apr 09 22:20	2°♉18'58	
greatest brilliancy	9622 Apr 20 17:22	19°♉07'42	-0.8m
	9622 Apr 28 04:13	0°♊	
asc. node	9622 May 01 21:35	4°♊36'58	
evening max el	9622 May 03 01:15	5°♊50'23	19°07'11
retrograde	9622 May 09 22:52	9°♊42'17	
evening set	9622 May 13 10:06	8°♊32'17	

inferior conj	9622 May 18	21:36	2°♊44'49	3°19'53
minimum elong	9622 May 18	21:48	2°♊44'09	3°19'35
min. Earth dist.	9622 May 20	10:20	0°♊46'55	0.66422 AU
	9622 May 21	01:20	30°℞♉	
morning rise	9622 May 24	09:02	26°♉24'58	
direct	9622 May 30	15:35	23°♉40'49	
desc. node	9622 Jun 05	02:23	25°♉20'15	
	9622 Jun 11	02:33	0°♊	
morning max el	9622 Jun 12	10:29	1°♊18'33	26°14'51
	9622 Jul 03	23:02	0°♋	
morning set	9622 Jul 18	10:59	24°♋50'26	
	9622 Jul 21	04:24	0°♌	
max. Earth dist.	9622 Jul 22	09:18	2°♌19'52	1.34980 AU
superior conj	9622 Jul 27	13:26	12°♌40'28	-0°12'55
minimum elong	9622 Jul 27	14:12	12°♌44'20	0°13'03
behind sun begin	9622 Jul 27	10:40	12°♌26'19	
behind sun end	9622 Jul 27	17:43	13°♌02'22	
asc. node	9622 Jul 28	20:49	15°♌21'45	
evening rise	9622 Aug 04	05:31	28°♌36'26	
	9622 Aug 04	21:42	0°♍	
evening max el	9622 Aug 22	20:55	29°♍12'48	20°39'46
	9622 Aug 23	16:40	0°♎	
desc. node	9622 Sep 01	01:03	4°♎38'09	
retrograde	9622 Sep 03	05:02	4°♎50'08	
evening set	9622 Sep 05	07:53	4°♎39'10	
inferior conj	9622 Sep 14	11:57	0°♎42'37	-3°55'21
minimum elong	9622 Sep 14	02:22	0°♎56'24	3°52'27
min. Earth dist.	9622 Sep 15	12:27	0°♎07'24	0.54714 AU
	9622 Sep 15	17:38	30°℞♍	
morning rise	9622 Sep 22	20:39	26°♍42'57	
direct	9622 Sep 26	23:27	26°♍06'37	
	9622 Oct 07	05:52	0°♎	
morning max el	9622 Oct 10	04:34	2°♎28'38	23°18'24
asc. node	9622 Oct 24	20:56	22°♎38'20	
	9622 Oct 28	18:58	0°♏	
morning set	9622 Nov 02	12:41	9°♏43'42	
superior conj	9622 Nov 09	11:22	24°♏42'26	1°40'30
minimum elong	9622 Nov 09	11:24	24°♏42'37	1°40'46
	9622 Nov 11	22:52	0°♐	
max. Earth dist.	9622 Nov 12	07:52	0°♐47'24	1.33394 AU
evening rise	9622 Nov 17	04:31	10°♐45'06	
desc. node	9622 Nov 27	23:25	0°♑33'01	
	9622 Nov 27	15:36	0°♑	
	9622 Dec 19	04:54	0°♒	
evening max el	9622 Dec 21	12:01	2°♒18'22	27°19'58
retrograde	9623 Jan 04	00:56	9°♒40'32	
evening set	9623 Jan 10	21:23	7°♒06'26	
min. Earth dist.	9623 Jan 14	17:42	3°♒34'22	0.64592 AU
inferior conj	9623 Jan 17	03:10	0°♒59'46	-1°14'15
minimum elong	9623 Jan 17	05:27	0°♒53'38	1°12'58
	9623 Jan 18	01:34	30°℞♑	
asc. node	9623 Jan 20	20:19	27°♑20'33	
morning rise	9623 Jan 23	15:11	25°♑33'25	
direct	9623 Jan 26	04:23	24°♑59'50	
morning max el	9623 Feb 01	14:34	28°♑21'19	17°54'10
	9623 Feb 03	03:26	0°♒	
morning set	9623 Feb 18	21:07	24°♒16'08	
	9623 Feb 22	07:32	0°♓	
desc. node	9623 Feb 23	23:08	2°♓44'07	
superior conj	9623 Mar 04	13:18	16°♓42'38	-1°00'23
minimum elong	9623 Mar 04	06:33	16°♓15'37	0°59'23
max. Earth dist.	9623 Mar 09	00:54	23°♓49'49	1.45154 AU
	9623 Mar 12	23:23	0°♈	
evening rise	9623 Mar 20	13:14	11°♈43'11	
	9623 Apr 01	14:39	0°♉	
greatest brilliancy	9623 Apr 04	09:42	4°♉06'55	-0.6m
evening max el	9623 Apr 16	05:47	19°♉30'34	20°01'17
asc. node	9623 Apr 18	18:45	21°♉47'31	
retrograde	9623 Apr 23	21:15	23°♉55'02	
evening set	9623 Apr 27	17:13	22°♉29'44	
inferior conj	9623 May 03	01:12	16°♉28'30	3°15'50
minimum elong	9623 May 03	00:19	16°♉31'31	3°15'33
min. Earth dist.	9623 May 03	23:28	15°♉13'15	0.67582 AU
morning rise	9623 May 08	07:06	10°♉09'59	
direct	9623 May 14	02:19	7°♉34'51	
desc. node	9623 May 22	23:22	11°♉55'49	
morning max el	9623 May 25	20:10	14°♉37'43	24°53'51
	9623 Jun 07	09:26	0°♊	
	9623 Jun 26	19:46	0°♋	
morning set	9623 Jun 30	19:01	6°♋53'46	
max. Earth dist.	9623 Jul 04	09:27	13°♋24'05	1.36985 AU
superior conj	9623 Jul 10	23:54	25°♋56'45	-0°45'12
minimum elong	9623 Jul 11	02:46	26°♋10'46	0°45'01
	9623 Jul 13	01:13	0°♌	
asc. node	9623 Jul 15	17:46	5°♌23'02	
evening rise	9623 Jul 19	09:21	12°♌44'21	
	9623 Jul 28	13:28	0°♍	
evening max el	9623 Aug 05	09:02	10°♍32'08	19°30'03
retrograde	9623 Aug 15	00:07	15°♍18'15	
evening set	9623 Aug 16	20:16	15°♍08'34	
desc. node	9623 Aug 18	22:15	14°♍35'49	
inferior conj	9623 Aug 25	14:02	11°♍03'09	-2°03'09
minimum elong	9623 Aug 25	08:29	11°♍12'01	2°01'10
min. Earth dist.	9623 Aug 28	00:22	9°♍30'04	0.55566 AU
morning rise	9623 Sep 02	18:14	6°♍32'42	
direct	9623 Sep 07	16:35	5°♍38'00	
morning max el	9623 Sep 21	16:23	12°♍39'16	25°03'54
	9623 Oct 05	02:24	0°♎	
asc. node	9623 Oct 11	17:51	11°♎44'58	
morning set	9623 Oct 18	00:24	24°♎30'44	
	9623 Oct 20	13:17	0°♏	
superior conj	9623 Oct 24	20:40	9°♏28'20	1°37'42
minimum elong	9623 Oct 24	19:38	9°♏22'35	1°37'50
max. Earth dist.	9623 Oct 26	10:52	12°♏57'30	1.32306 AU
evening rise	9623 Nov 01	01:22	24°♏52'18	
	9623 Nov 03	14:17	0°♐	
desc. node	9623 Nov 14	20:30	20°♐18'49	
	9623 Nov 21	04:43	0°♑	
evening max el	9623 Dec 03	22:46	15°♑20'02	27°29'38
retrograde	9623 Dec 17	17:47	22°♑38'08	
evening set	9623 Dec 24	18:49	20°♑12'29	
min. Earth dist.	9623 Dec 28	11:57	17°♑09'16	0.62756 AU
inferior conj	9623 Dec 31	07:50	14°♑25'43	-2°25'16
minimum elong	9623 Dec 31	12:34	14°♑14'17	2°23'04
morning rise	9624 Jan 07	08:32	9°♑15'44	
asc. node	9624 Jan 07	17:25	9°♑08'35	
direct	9624 Jan 09	15:34	8°♑51'24	
morning max el	9624 Jan 16	07:59	12°♑16'49	17°47'24
	9624 Jan 28	08:55	0°♒	
morning set	9624 Feb 01	08:30	6°♒58'13	
desc. node	9624 Feb 10	20:00	23°♒23'03	
superior conj	9624 Feb 13	02:41	27°♒12'48	-0°16'55
minimum elong	9624 Feb 13	00:59	27°♒05'43	0°16'27
	9624 Feb 14	18:57	0°♓	
max. Earth dist.	9624 Feb 19	17:56	8°♓04'40	1.44022 AU
evening rise	9624 Feb 28	01:20	21°♓09'15	
	9624 Mar 04	20:28	0°♈	
	9624 Mar 26	06:46	0°♉	

evening max el	9624 Mar 29 04:48	3°♉12'19	21°08'40
asc. node	9624 Apr 04 15:54	7°♉53'05	
retrograde	9624 Apr 06 19:45	8°♉16'21	
evening set	9624 Apr 11 01:31	6°♉35'36	
inferior conj	9624 Apr 16 08:28	0°♉22'39	3°00'26
minimum elong	9624 Apr 16 06:46	0°♉28'34	3°00'00
min. Earth dist.	9624 Apr 16 17:15	29°♈52'10	0.68291 AU
	9624 Apr 16 15:00	30°℞♈	
morning rise	9624 Apr 21 11:47	24°♈07'44	
direct	9624 Apr 26 17:53	21°♈48'59	
morning max el	9624 May 07 05:37	28°♈03'52	23°24'36
desc. node	9624 May 08 20:18	29°♈45'19	
	9624 May 09 01:42	0°♉	
	9624 May 31 01:45	0°♊	
morning set	9624 Jun 11 04:52	17°♊54'01	
max. Earth dist.	9624 Jun 15 05:44	24°♊48'49	1.39236 AU
	9624 Jun 18 04:13	0°♋	
superior conj	9624 Jun 22 20:26	8°♋31'55	-1°17'40
minimum elong	9624 Jun 23 01:28	8°♋55'21	1°17'16
asc. node	9624 Jul 01 14:45	25°♋16'17	
evening rise	9624 Jul 02 05:31	26°♋27'44	
	9624 Jul 04 01:35	0°♌	
evening max el	9624 Jul 18 09:10	22°♌36'18	18°41'22
retrograde	9624 Jul 26 12:10	26°♌39'09	
evening set	9624 Jul 28 12:22	26°♌25'11	
desc. node	9624 Aug 04 19:25	22°♌31'23	
inferior conj	9624 Aug 05 11:34	22°♌01'28	-0°12'21
minimum elong	9624 Aug 05 11:04	22°♌02'24	0°12'24
transit middle	9624 Aug 05 11:04	22°♌02'24	0°12'24
transit begin	9624 Aug 05 08:44	22°♌06'45	
transit end	9624 Aug 05 13:24	21°♌58'02	
min. Earth dist.	9624 Aug 08 16:41	19°♌38'46	0.57208 AU
morning rise	9624 Aug 13 06:19	16°♌53'55	
direct	9624 Aug 18 23:57	15°♌32'55	
morning max el	9624 Sep 02 07:25	23°♌02'40	26°33'57
	9624 Sep 08 13:01	0°♍	
	9624 Sep 26 23:43	0°♎	
asc. node	9624 Sep 27 14:46	1°♎15'04	
morning set	9624 Oct 01 10:41	9°♎10'49	
superior conj	9624 Oct 08 08:06	24°♎17'16	1°29'08
minimum elong	9624 Oct 08 06:16	24°♎07'07	1°29'05
max. Earth dist.	9624 Oct 08 19:03	25°♎18'06	1.31690 AU
	9624 Oct 10 22:01	0°♏	
evening rise	9624 Oct 15 05:09	9°♏16'54	
	9624 Oct 25 22:18	0°♐	
desc. node	9624 Oct 31 17:37	9°♐31'23	
evening max el	9624 Nov 15 04:52	27°♐41'43	27°06'27
	9624 Nov 17 20:04	0°♑	
retrograde	9624 Nov 29 02:24	4°♑52'23	
evening set	9624 Dec 06 01:20	2°♑45'00	
	9624 Dec 09 20:51	30°℞♐	
min. Earth dist.	9624 Dec 09 19:32	0°♑02'42	0.60712 AU
inferior conj	9624 Dec 12 22:35	27°♐23'41	-3°38'23
minimum elong	9624 Dec 13 05:34	27°♐08'48	3°35'44
morning rise	9624 Dec 20 12:19	22°♐33'21	
direct	9624 Dec 22 16:22	22°♐14'35	
asc. node	9624 Dec 24 14:29	22°♐29'55	
morning max el	9624 Dec 29 22:40	25°♐52'38	17°59'12
	9625 Jan 02 10:49	0°♑	
morning set	9625 Jan 14 13:42	20°♑30'22	
	9625 Jan 19 17:47	0°♒	
superior conj	9625 Jan 24 17:13	8°♒54'25	0°22'26
minimum elong	9625 Jan 24 19:03	9°♒02'27	0°22'27
desc. node	9625 Jan 27 16:51	14°♒05'46	
max. Earth dist.	9625 Feb 01 07:07	21°♒51'05	1.42329 AU
	9625 Feb 06 07:15	0°♓	
evening rise	9625 Feb 07 01:17	1°♓11'55	
	9625 Feb 26 08:20	0°♈	
evening max el	9625 Mar 11 22:51	16°♈55'31	22°25'10
retrograde	9625 Mar 21 16:36	22°♈41'23	
asc. node	9625 Mar 22 13:04	22°♈37'47	
evening set	9625 Mar 26 09:20	20°♈45'26	
inferior conj	9625 Mar 31 17:17	14°♈23'19	2°35'00
minimum elong	9625 Mar 31 15:08	14°♈30'48	2°34'24
min. Earth dist.	9625 Mar 31 13:29	14°♈36'33	0.68557 AU
morning rise	9625 Apr 05 20:48	8°♈13'26	
direct	9625 Apr 10 13:09	6°♈15'31	
morning max el	9625 Apr 19 17:54	11°♈37'54	21°56'27
desc. node	9625 Apr 25 17:11	18°♈27'54	
	9625 May 04 06:10	0°♉	
morning set	9625 May 22 12:02	27°♉39'42	
	9625 May 23 22:50	0°♊	
max. Earth dist.	9625 May 28 05:24	7°♊01'26	1.41467 AU
superior conj	9625 Jun 04 22:25	20°♊14'19	-1°46'44
minimum elong	9625 Jun 05 04:37	20°♊41'36	1°46'26
	9625 Jun 10 09:03	0°♋	
evening rise	9625 Jun 15 14:19	9°♋36'29	
asc. node	9625 Jun 18 11:44	14°♋56'22	
	9625 Jun 27 10:08	0°♌	
evening max el	9625 Jul 01 17:25	5°♌15'57	18°13'16
retrograde	9625 Jul 08 19:25	8°♌50'34	
evening set	9625 Jul 11 02:54	8°♌28'21	
inferior conj	9625 Jul 18 06:47	3°♌43'46	1°16'42
minimum elong	9625 Jul 18 09:06	3°♌38'43	1°15'36
min. Earth dist.	9625 Jul 21 15:25	0°♌49'17	0.59320 AU
desc. node	9625 Jul 22 16:33	29°♋58'56	
	9625 Jul 22 16:00	30°℞♋	
morning rise	9625 Jul 25 12:10	28°♋03'46	
direct	9625 Jul 31 20:30	26°♋12'37	
	9625 Aug 10 12:56	0°♌	
morning max el	9625 Aug 15 05:14	4°♌01'56	27°34'05
	9625 Sep 03 07:21	0°♍	
asc. node	9625 Sep 14 11:38	21°♍01'44	
morning set	9625 Sep 15 17:53	23°♍39'13	
	9625 Sep 18 17:06	0°♎	
max. Earth dist.	9625 Sep 22 04:56	7°♎41'05	1.31540 AU
superior conj	9625 Sep 22 19:47	9°♎03'32	1°15'13
minimum elong	9625 Sep 22 17:34	8°♎51'13	1°14'56
evening rise	9625 Sep 29 13:30	23°♎52'10	
	9625 Oct 02 11:40	0°♏	
desc. node	9625 Oct 18 14:46	27°♏57'53	
	9625 Oct 20 02:31	0°♐	
evening max el	9625 Oct 28 03:36	9°♐13'23	26°09'24
retrograde	9625 Nov 11 01:29	16°♐17'11	
evening set	9625 Nov 17 12:26	14°♐37'21	
min. Earth dist.	9625 Nov 21 16:32	12°♐02'41	0.58613 AU
inferior conj	9625 Nov 24 19:56	9°♐43'58	-4°45'27
minimum elong	9625 Nov 25 03:32	9°♐29'56	4°43'22
morning rise	9625 Dec 02 21:02	5°♐16'10	
direct	9625 Dec 05 02:20	4°♐59'41	
asc. node	9625 Dec 11 11:31	7°♐25'05	
morning max el	9625 Dec 13 07:03	8°♐59'23	18°31'10
	9625 Dec 26 21:31	0°♑	
morning set	9625 Dec 29 07:19	4°♑36'44	
superior conj	9626 Jan 07 05:32	21°♑38'04	0°54'01
minimum elong	9626 Jan 07 08:42	21°♑52'42	0°53'55
	9626 Jan 11 19:56	0°♒	
max. Earth dist.	9626 Jan 14 15:51	4°♒58'12	1.40262 AU

desc. node	9626 Jan 14 13:46	4°♒49'07	
evening rise	9626 Jan 18 21:28	12°♒09'37	
	9626 Jan 30 03:55	0°♓	
	9626 Feb 21 21:06	0°♈	
evening max el	9626 Feb 22 13:34	0°♈41'44	23°45'19
retrograde	9626 Mar 05 10:36	7°♈06'21	
asc. node	9626 Mar 09 10:13	5°♈50'39	
evening set	9626 Mar 10 15:12	4°♈56'11	
	9626 Mar 14 22:51	30°℞♓	
min. Earth dist.	9626 Mar 15 10:02	29°♓22'08	0.68395 AU
inferior conj	9626 Mar 16 01:50	28°♓28'15	2°00'21
minimum elong	9626 Mar 15 23:39	28°♓35'39	1°59'41
morning rise	9626 Mar 21 08:08	22°♓24'34	
direct	9626 Mar 25 11:02	20°♓48'55	
morning max el	9626 Apr 02 12:31	25°♓24'13	20°36'51
	9626 Apr 06 15:14	0°♈	
desc. node	9626 Apr 12 14:03	7°♈49'35	
	9626 Apr 27 15:45	0°♉	
morning set	9626 May 01 18:52	6°♉21'33	
max. Earth dist.	9626 May 10 11:56	20°♉08'20	1.43396 AU
	9626 May 16 12:19	0°♊	
superior conj	9626 May 17 01:32	0°♊55'09	-2°07'03
minimum elong	9626 May 17 05:57	1°♊13'35	2°07'09
evening rise	9626 May 29 07:22	22°♊00'36	
	9626 Jun 02 20:36	0°♋	
asc. node	9626 Jun 05 08:45	4°♋18'20	
evening max el	9626 Jun 15 05:58	18°♋21'43	18°04'46
retrograde	9626 Jun 21 18:24	21°♋43'30	
evening set	9626 Jun 24 09:34	21°♋10'05	
inferior conj	9626 Jun 30 21:11	16°♋05'54	2°19'01
minimum elong	9626 Jul 01 00:03	15°♋58'41	2°17'55
min. Earth dist.	9626 Jul 03 22:40	13°♋02'36	0.61580 AU
morning rise	9626 Jul 07 12:14	10°♋03'34	
desc. node	9626 Jul 09 13:40	8°♋50'55	
direct	9626 Jul 14 04:28	7°♋44'48	
morning max el	9626 Jul 28 09:47	15°♋45'55	27°56'35
	9626 Aug 09 01:10	0°♌	
	9626 Aug 26 21:53	0°♍	
morning set	9626 Aug 30 20:01	7°♍50'09	
asc. node	9626 Sep 01 08:29	10°♍59'15	
max. Earth dist.	9626 Sep 05 12:30	19°♍54'32	1.31864 AU
superior conj	9626 Sep 07 05:54	23°♍41'14	0°56'15
minimum elong	9626 Sep 07 03:46	23°♍29'32	0°55'48
	9626 Sep 10 02:36	0°♎	
evening rise	9626 Sep 14 00:23	8°♎31'37	
	9626 Sep 25 00:04	0°♏	
desc. node	9626 Oct 05 11:56	15°♏19'41	
evening max el	9626 Oct 09 18:07	19°♏54'48	24°44'24
retrograde	9626 Oct 23 13:30	26°♏51'13	
evening set	9626 Oct 28 23:42	25°♏45'20	
min. Earth dist.	9626 Nov 03 05:22	22°♏59'41	0.56701 AU
inferior conj	9626 Nov 05 21:08	21°♏17'21	-5°31'58
minimum elong	9626 Nov 06 01:28	21°♏10'22	5°31'16
morning rise	9626 Nov 14 05:28	17°♏11'56	
direct	9626 Nov 16 17:25	16°♏54'39	
morning max el	9626 Nov 26 05:22	21°♏25'48	19°24'58
asc. node	9626 Nov 28 08:30	23°♏40'56	
	9626 Dec 02 23:50	0°♐	
morning set	9626 Dec 13 09:16	19°♐04'23	
	9626 Dec 18 20:01	0°♑	
superior conj	9626 Dec 21 10:27	5°♑07'57	1°17'03
minimum elong	9626 Dec 21 13:25	5°♑22'25	1°17'04
max. Earth dist.	9626 Dec 27 21:38	17°♑22'22	1.38067 AU
evening rise	9626 Dec 31 15:07	24°♑03'12	

desc. node	9627 Jan 01 10:42	25°♑28'41	
	9627 Jan 04 02:04	0°♒	
	9627 Jan 23 21:34	0°♓	
evening max el	9627 Feb 05 02:48	14°♓29'51	25°02'56
retrograde	9627 Feb 17 00:39	21°♓25'00	
evening set	9627 Feb 22 17:31	19°♓02'43	
asc. node	9627 Feb 24 07:23	17°♓32'02	
min. Earth dist.	9627 Feb 27 04:46	14°♓03'19	0.67816 AU
inferior conj	9627 Feb 28 08:13	12°♓33'22	1°16'48
minimum elong	9627 Feb 28 06:31	12°♓38'55	1°16'18
morning rise	9627 Mar 05 19:49	6°♓37'16	
direct	9627 Mar 09 10:11	5°♓22'51	
morning max el	9627 Mar 16 14:57	9°♓22'12	19°30'33
greatest brilliancy	9627 Mar 29 08:05	26°♓00'03	-0.7m
desc. node	9627 Mar 30 10:54	27°♓39'24	
	9627 Apr 01 00:32	0°♈	
morning set	9627 Apr 10 17:23	14°♈47'21	
	9627 Apr 20 12:16	0°♉	
max. Earth dist.	9627 Apr 23 00:51	3°♉58'32	1.44794 AU
superior conj	9627 Apr 27 04:23	10°♉34'15	-2°12'12
minimum elong	9627 Apr 27 02:47	10°♉27'48	2°12'25
	9627 May 09 01:40	0°♊	
evening rise	9627 May 11 03:57	3°♊30'03	
asc. node	9627 May 23 05:49	23°♊15'55	
	9627 May 28 04:35	0°♋	
evening max el	9627 May 29 19:30	1°♋45'27	18°15'02
retrograde	9627 Jun 05 04:34	5°♋08'36	
evening set	9627 Jun 08 03:20	4°♋21'57	
	9627 Jun 13 05:08	30°℞♊	
inferior conj	9627 Jun 14 02:40	28°♊59'56	2°57'20
minimum elong	9627 Jun 14 04:48	28°♊53'55	2°56'37
min. Earth dist.	9627 Jun 16 15:16	26°♊09'49	0.63720 AU
morning rise	9627 Jun 20 04:52	22°♊45'31	
desc. node	9627 Jun 26 10:45	20°♊08'20	
direct	9627 Jun 26 21:59	20°♊07'36	
morning max el	9627 Jul 10 18:40	28°♊10'20	27°41'19
	9627 Jul 12 12:41	0°♋	
	9627 Aug 02 20:17	0°♌	
morning set	9627 Aug 14 14:48	21°♌37'20	
	9627 Aug 18 17:18	0°♍	
asc. node	9627 Aug 19 05:22	1°♍03'08	
max. Earth dist.	9627 Aug 19 13:47	1°♍47'25	1.32680 AU
superior conj	9627 Aug 22 12:35	8°♍04'58	0°32'34
minimum elong	9627 Aug 22 11:06	7°♍56'57	0°32'07
evening rise	9627 Aug 29 11:54	23°♍09'54	
	9627 Sep 01 18:18	0°♎	
evening max el	9627 Sep 21 05:00	0°♏06'44	23°05'17
	9627 Sep 21 02:14	0°♏	
desc. node	9627 Sep 22 09:08	1°♏12'19	
retrograde	9627 Oct 04 13:08	6°♏46'02	
evening set	9627 Oct 08 12:10	6°♏11'49	
min. Earth dist.	9627 Oct 15 14:07	2°♏56'51	0.55282 AU
inferior conj	9627 Oct 17 02:56	2°♏03'31	-5°37'44
minimum elong	9627 Oct 16 23:47	2°♏08'06	5°37'21
	9627 Oct 20 20:37	30°℞♎	
morning rise	9627 Oct 25 13:19	28°♎13'25	
direct	9627 Oct 28 13:43	27°♎51'54	
	9627 Nov 04 15:54	0°♏	
morning max el	9627 Nov 08 14:46	3°♏03'44	20°41'18
asc. node	9627 Nov 15 05:29	11°♏02'00	
	9627 Nov 25 20:34	0°♐	
morning set	9627 Nov 27 16:39	3°♐45'21	
superior conj	9627 Dec 05 03:30	19°♐11'29	1°31'53
minimum elong	9627 Dec 05 05:29	19°♐21'37	1°32'05

max. Earth dist.	9627 Dec 10 05:29	29°♐19'40	1.35995 AU
	9627 Dec 10 13:49	0°♑	
evening rise	9627 Dec 14 03:49	6°♑46'37	
desc. node	9627 Dec 19 07:41	16°♑00'33	
	9627 Dec 27 20:46	0°♒	
evening max el	9628 Jan 18 16:06	28°♒17'21	26°10'48
	9628 Jan 20 12:18	0°♓	
retrograde	9628 Jan 31 09:46	5°♓31'07	
evening set	9628 Feb 06 14:38	3°♓00'13	
	9628 Feb 09 14:51	30°℞♒	
min. Earth dist.	9628 Feb 10 19:28	28°♒35'18	0.66848 AU
asc. node	9628 Feb 11 04:33	28°♒07'30	
inferior conj	9628 Feb 12 10:31	26°♒34'51	0°24'34
minimum elong	9628 Feb 12 09:53	26°♒36'50	0°24'32
morning rise	9628 Feb 18 05:51	20°♒48'10	
direct	9628 Feb 21 09:06	19°♒52'20	
morning max el	9628 Feb 28 00:39	23°♒28'02	18°39'54
	9628 Mar 04 11:14	0°♓	
desc. node	9628 Mar 16 07:44	17°♓49'40	
morning set	9628 Mar 20 07:21	24°♓04'36	
	9628 Mar 24 01:56	0°♈	
max. Earth dist.	9628 Apr 04 18:27	18°♈17'37	1.45520 AU
superior conj	9628 Apr 05 13:21	19°♈31'38	-1°57'26
minimum elong	9628 Apr 05 05:05	18°♈59'15	1°56'58
	9628 Apr 12 05:20	0°♉	
evening rise	9628 Apr 21 00:49	14°♉00'00	
greatest brilliancy	9628 Apr 28 17:21	26°♉17'06	-0.9m
	9628 May 01 01:59	0°♊	
asc. node	9628 May 09 02:56	11°♊40'42	
evening max el	9628 May 12 07:13	15°♊19'50	18°43'18
retrograde	9628 May 18 21:50	18°♊57'29	
evening set	9628 May 22 04:26	17°♊56'12	
inferior conj	9628 May 27 19:18	12°♊17'49	3°16'12
minimum elong	9628 May 27 20:13	12°♊14'59	3°15'48
min. Earth dist.	9628 May 29 16:51	9°♊57'39	0.65556 AU
morning rise	9628 Jun 02 11:16	5°♊58'42	
direct	9628 Jun 08 23:08	3°♊13'21	
desc. node	9628 Jun 12 07:48	3°♊51'15	
morning max el	9628 Jun 22 05:08	11°♊04'10	26°53'36
	9628 Jul 07 05:27	0°♋	
	9628 Jul 25 09:11	0°♌	
morning set	9628 Jul 27 23:13	4°♌52'00	
max. Earth dist.	9628 Aug 01 05:30	13°♌13'40	1.34003 AU
asc. node	9628 Aug 05 02:16	21°♌08'48	
superior conj	9628 Aug 05 13:36	22°♌07'59	0°04'43
minimum elong	9628 Aug 05 13:22	22°♌06'43	0°04'25
behind sun begin	9628 Aug 05 07:51	21°♌37'55	
behind sun end	9628 Aug 05 18:53	22°♌35'34	
	9628 Aug 09 07:03	0°♍	
evening rise	9628 Aug 12 22:09	7°♍40'54	
	9628 Aug 24 18:37	0°♎	
evening max el	9628 Sep 01 21:03	10°♎23'45	21°28'50
desc. node	9628 Sep 08 06:21	15°♎04'54	
retrograde	9628 Sep 14 02:21	16°♎27'35	
evening set	9628 Sep 16 17:02	16°♎12'00	
inferior conj	9628 Sep 25 20:24	12°♎15'13	-4°47'36
minimum elong	9628 Sep 25 11:07	12°♎28'12	4°45'27
min. Earth dist.	9628 Sep 25 22:00	12°♎13'00	0.54653 AU
morning rise	9628 Oct 04 06:05	8°♎25'04	
direct	9628 Oct 07 22:57	7°♎55'21	
morning max el	9628 Oct 20 11:15	13°♎52'08	22°17'31
asc. node	9628 Nov 01 02:26	29°♎13'04	
	9628 Nov 01 13:30	0°♏	
morning set	9628 Nov 11 03:11	18°♏32'51	
	9628 Nov 16 12:04	0°♐	
superior conj	9628 Nov 18 05:00	3°♐37'46	1°39'18
minimum elong	9628 Nov 18 05:45	3°♐41'42	1°39'34
max. Earth dist.	9628 Nov 21 20:19	11°♐13'18	1.34228 AU
evening rise	9628 Nov 26 07:48	20°♐09'49	
	9628 Dec 01 14:03	0°♑	
desc. node	9628 Dec 05 04:44	6°♑19'53	
	9628 Dec 20 20:28	0°♒	
evening max el	9628 Dec 31 05:39	11°♒56'57	27°01'31
retrograde	9629 Jan 13 13:03	19°♒17'54	
evening set	9629 Jan 20 04:35	16°♒43'18	
min. Earth dist.	9629 Jan 24 03:50	12°♒52'22	0.65514 AU
inferior conj	9629 Jan 26 06:34	10°♒28'07	-0°35'56
minimum elong	9629 Jan 26 07:36	10°♒25'10	0°35'12
asc. node	9629 Jan 28 01:43	8°♒28'31	
morning rise	9629 Feb 01 11:53	4°♒53'19	
direct	9629 Feb 04 05:44	4°♒12'35	
morning max el	9629 Feb 10 15:38	7°♒36'10	18°05'55
	9629 Feb 26 03:05	0°♓	
morning set	9629 Mar 01 01:59	4°♓48'56	
desc. node	9629 Mar 03 04:34	8°♓14'49	
superior conj	9629 Mar 15 20:43	28°♓31'55	-1°24'24
minimum elong	9629 Mar 15 11:42	27°♓56'22	1°23'21
	9629 Mar 16 19:05	0°♈	
max. Earth dist.	9629 Mar 18 14:28	2°♈50'18	1.45506 AU
evening rise	9629 Apr 01 00:08	23°♈41'20	
	9629 Apr 05 02:06	0°♉	
greatest brilliancy	9629 Apr 13 19:11	13°♉17'58	-0.7m
evening max el	9629 Apr 25 14:54	28°♉59'31	19°28'24
asc. node	9629 Apr 26 00:06	29°♉22'23	
	9629 Apr 26 16:04	0°♊	
retrograde	9629 May 02 19:07	3°♊03'38	
evening set	9629 May 06 10:02	1°♊47'02	
	9629 May 08 10:41	30°℞♉	
inferior conj	9629 May 11 19:43	25°♉53'38	3°19'39
minimum elong	9629 May 11 19:26	25°♉54'35	3°19'22
min. Earth dist.	9629 May 13 02:10	24°♉13'29	0.66979 AU
morning rise	9629 May 17 04:28	19°♉34'17	
direct	9629 May 23 06:37	16°♉52'53	
desc. node	9629 May 30 04:47	19°♉32'47	
morning max el	9629 Jun 04 15:18	24°♉16'48	25°41'59
	9629 Jun 09 18:25	0°♊	
	9629 Jun 30 15:34	0°♋	
morning set	9629 Jul 10 17:27	17°♋24'30	
max. Earth dist.	9629 Jul 14 10:49	24°♋20'50	1.35798 AU
	9629 Jul 17 09:05	0°♌	
superior conj	9629 Jul 20 06:18	5°♌43'34	-0°26'25
minimum elong	9629 Jul 20 07:54	5°♌51'38	0°26'25
asc. node	9629 Jul 22 23:13	11°♌12'50	
evening rise	9629 Jul 28 05:02	21°♌59'13	
	9629 Aug 01 04:51	0°♍	
evening max el	9629 Aug 15 01:13	21°♍15'54	20°07'30
retrograde	9629 Aug 25 15:32	26°♍30'56	
desc. node	9629 Aug 26 03:33	26°♍30'16	
evening set	9629 Aug 27 13:55	26°♍21'14	
inferior conj	9629 Sep 05 15:09	22°♍22'19	-3°09'31
minimum elong	9629 Sep 05 06:47	22°♍34'47	3°06'41
min. Earth dist.	9629 Sep 07 07:29	21°♍22'19	0.54971 AU
morning rise	9629 Sep 13 22:31	18°♍11'40	
direct	9629 Sep 18 09:42	17°♍28'30	
morning max el	9629 Oct 01 23:54	24°♍07'32	24°04'10
	9629 Oct 07 08:31	0°♎	
asc. node	9629 Oct 18 23:20	18°♎02'03	
	9629 Oct 25 00:46	0°♏	
morning set	9629 Oct 26 14:56	3°♏21'17	

superior conj	9629 Nov 02	12:07	18°♏18'09	1°40'02
minimum elong	9629 Nov 02	11:40	18°♏15'41	1°40'16
max. Earth dist.	9629 Nov 04	19:23	23°♏16'35	1.32874 AU
	9629 Nov 07	23:53	0°♐	
evening rise	9629 Nov 09	23:22	4°♐02'55	
desc. node	9629 Nov 22	01:49	26°♐20'07	
	9629 Nov 24	07:46	0°♑	
evening max el	9629 Dec 13	17:59	25°♑15'54	27°27'56
	9629 Dec 19	16:13	0°♒	
retrograde	9629 Dec 27	09:40	2°♒36'09	
evening set	9630 Jan 03	08:52	0°♒04'38	
	9630 Jan 03	11:25	30°℞♑	
min. Earth dist.	9630 Jan 07	03:35	26°♑45'38	0.63846 AU
inferior conj	9630 Jan 09	17:41	24°♑06'00	-1°43'45
minimum elong	9630 Jan 09	20:58	23°♑57'32	1°42'04
asc. node	9630 Jan 14	22:50	19°♑32'00	
morning rise	9630 Jan 16	10:56	18°♑46'09	
direct	9630 Jan 18	21:20	18°♑16'50	
morning max el	9630 Jan 25	09:03	21°♑38'32	17°49'07
	9630 Jan 31	19:55	0°♒	
morning set	9630 Feb 11	00:13	16°♒53'36	
desc. node	9630 Feb 18	01:24	28°♒49'46	
	9630 Feb 18	18:14	0°♓	
superior conj	9630 Feb 23	20:14	8°♓21'52	-0°41'51
minimum elong	9630 Feb 23	15:39	8°♓03'15	0°41'02
max. Earth dist.	9630 Mar 01	09:43	17°♓17'48	1.44758 AU
	9630 Mar 09	12:41	0°♈	
evening rise	9630 Mar 11	12:00	3°♈02'02	
	9630 Mar 29	15:18	0°♉	
evening max el	9630 Apr 08	17:05	12°♉40'16	20°28'26
asc. node	9630 Apr 12	21:17	16°♉07'12	
retrograde	9630 Apr 16	17:47	17°♉20'43	
evening set	9630 Apr 20	17:53	15°♉48'35	
inferior conj	9630 Apr 26	01:09	9°♉41'56	3°10'35
minimum elong	9630 Apr 25	23:52	9°♉46'19	3°10'13
min. Earth dist.	9630 Apr 26	17:27	8°♉46'02	0.67947 AU
morning rise	9630 May 01	05:38	3°♉24'54	
direct	9630 May 06	19:20	0°♉56'19	
desc. node	9630 May 17	01:43	6°♉42'29	
morning max el	9630 May 18	00:45	7°♉39'23	24°16'17
	9630 Jun 04	11:33	0°♊	
morning set	9630 Jun 22	16:40	29°♊02'16	
	9630 Jun 23	05:57	0°♋	
max. Earth dist.	9630 Jun 26	08:52	5°♋31'28	1.37933 AU
superior conj	9630 Jul 03	11:18	18°♋43'12	-0°59'09
minimum elong	9630 Jul 03	15:08	19°♋01'31	0°58'49
	9630 Jul 09	05:50	0°♌	
asc. node	9630 Jul 09	20:12	1°♌11'13	
evening rise	9630 Jul 12	06:00	5°♌57'44	
	9630 Jul 26	04:40	0°♍	
evening max el	9630 Jul 28	18:43	2°♍54'21	19°06'41
retrograde	9630 Aug 06	17:27	7°♍21'00	
evening set	9630 Aug 08	14:29	7°♍10'04	
desc. node	9630 Aug 13	00:42	5°♍28'32	
inferior conj	9630 Aug 17	00:47	2°♍57'08	-1°14'19
minimum elong	9630 Aug 16	21:32	3°♍02'39	1°13'13
min. Earth dist.	9630 Aug 19	20:55	1°♍01'30	0.56181 AU
	9630 Aug 21	11:48	30°℞♌	
morning rise	9630 Aug 25	01:34	28°♌10'53	
direct	9630 Aug 30	08:08	27°♌06'09	
	9630 Sep 08	02:33	0°♍	
morning max el	9630 Sep 13	12:34	4°♍20'33	25°45'17
	9630 Oct 01	22:40	0°♎	
asc. node	9630 Oct 05	20:13	7°♎19'40	
morning set	9630 Oct 11	02:15	18°♎06'15	
	9630 Oct 16	12:54	0°♏	
superior conj	9630 Oct 17	22:33	3°♏06'10	1°34'44
minimum elong	9630 Oct 17	21:08	2°♏58'19	1°34'49
max. Earth dist.	9630 Oct 19	01:04	5°♏32'26	1.31980 AU
evening rise	9630 Oct 24	23:27	18°♏18'16	
	9630 Oct 30	20:20	0°♐	
desc. node	9630 Nov 08	22:56	15°♐53'27	
	9630 Nov 18	20:34	0°♑	
evening max el	9630 Nov 26	02:55	8°♑01'29	27°23'58
retrograde	9630 Dec 09	23:06	15°♑16'49	
evening set	9630 Dec 17	00:27	12°♑57'20	
min. Earth dist.	9630 Dec 20	17:08	10°♑04'41	0.61904 AU
inferior conj	9630 Dec 23	16:49	7°♑21'00	-2°56'20
minimum elong	9630 Dec 23	22:36	7°♑07'46	2°53'52
morning rise	9630 Dec 30	23:08	2°♑19'20	
asc. node	9631 Jan 01	19:53	1°♑58'21	
direct	9631 Jan 02	04:32	1°♑57'46	
morning max el	9631 Jan 09	01:47	5°♑27'10	17°50'10
morning set	9631 Jan 24	19:55	29°♑59'11	
	9631 Jan 24	20:06	0°♒	
superior conj	9631 Feb 04	20:34	19°♒23'35	0°00'33
minimum elong	9631 Feb 04	20:38	19°♒23'55	0°00'48
behind sun begin	9631 Feb 04	12:01	18°♒47'07	
behind sun end	9631 Feb 05	05:16	20°♒00'38	
desc. node	9631 Feb 04	22:17	19°♒30'57	
	9631 Feb 11	05:05	0°♓	
max. Earth dist.	9631 Feb 12	01:21	1°♓22'33	1.43361 AU
evening rise	9631 Feb 19	03:38	12°♓40'05	
	9631 Mar 02	14:13	0°♈	
evening max el	9631 Mar 22	13:43	26°♈21'59	21°40'13
	9631 Mar 26	19:51	0°♉	
asc. node	9631 Mar 30	18:26	1°♉40'16	
retrograde	9631 Mar 31	15:55	1°♉44'16	
evening set	9631 Apr 05	02:12	29°♈56'54	
	9631 Apr 05	00:40	30°℞♈	
inferior conj	9631 Apr 10	09:19	23°♈39'21	2°50'49
minimum elong	9631 Apr 10	07:23	23°♈46'07	2°50'18
min. Earth dist.	9631 Apr 10	12:35	23°♈27'57	0.68461 AU
morning rise	9631 Apr 15	12:24	17°♈26'19	
direct	9631 Apr 20	12:33	15°♈16'19	
morning max el	9631 Apr 30	11:10	21°♈09'13	22°46'23
desc. node	9631 May 03	22:37	24°♈56'38	
	9631 May 08	01:20	0°♉	
	9631 May 28	17:39	0°♊	
morning set	9631 Jun 03	15:33	9°♊31'43	
max. Earth dist.	9631 Jun 08	05:48	17°♊13'59	1.40205 AU
	9631 Jun 15	11:58	0°♋	
superior conj	9631 Jun 16	00:29	0°♋56'44	-1°30'42
minimum elong	9631 Jun 16	06:14	1°♋22'53	1°30'18
evening rise	9631 Jun 25	21:50	19°♋27'32	
asc. node	9631 Jun 26	17:11	20°♋59'21	
	9631 Jul 01	13:29	0°♌	
evening max el	9631 Jul 11	22:45	15°♌14'30	18°26'57
retrograde	9631 Jul 19	13:54	19°♌03'41	
evening set	9631 Jul 21	16:52	18°♌46'47	
inferior conj	9631 Jul 29	07:40	14°♌14'24	0°28'41
minimum elong	9631 Jul 29	08:41	14°♌12'22	0°28'02
desc. node	9631 Jul 30	21:52	12°♌57'42	
min. Earth dist.	9631 Aug 01	16:00	11°♌35'13	0.58061 AU
morning rise	9631 Aug 05	20:57	8°♌51'35	
direct	9631 Aug 11	21:26	7°♌17'45	
morning max el	9631 Aug 26	06:29	14°♌57'52	27°03'54
	9631 Sep 07	09:38	0°♍	
asc. node	9631 Sep 22	17:06	26°♍57'23	

	9631 Sep	24	04:35	0°♎	
morning set	9631 Sep	25	11:24	2°♎41'51	
superior conj	9631 Oct	02	10:17	17°♎54'34	1°23'52
minimum elong	9631 Oct	02	08:14	17°♎43'11	1°23'43
max. Earth dist.	9631 Oct	02	10:15	17°♎54'20	1.31559 AU
	9631 Oct	07	22:04	0°♏	
evening rise	9631 Oct	09	05:24	2°♏47'44	
	9631 Oct	23	17:26	0°♐	
desc. node	9631 Oct	26	20:03	4°♐48'11	
evening max el	9631 Nov	08	05:53	20°♐01'34	26°46'11
retrograde	9631 Nov	22	04:09	27°♐10'11	
evening set	9631 Nov	28	23:17	25°♐13'14	
min. Earth dist.	9631 Dec	02	20:05	22°♐36'09	0.59807 AU
inferior conj	9631 Dec	06	00:30	20°♐03'25	-4°08'19
minimum elong	9631 Dec	06	08:04	19°♐48'14	4°05'45
morning rise	9631 Dec	13	19:27	15°♐22'41	
direct	9631 Dec	15	23:15	15°♐05'25	
asc. node	9631 Dec	19	16:54	15°♐59'50	
morning max el	9631 Dec	23	14:15	18°♐51'44	18°10'18
	9631 Dec	31	16:40	0°♑	
morning set	9632 Jan	08	06:54	13°♑46'50	
	9632 Jan	17	00:20	0°♒	
superior conj	9632 Jan	17	20:55	1°♒32'55	0°36'51
minimum elong	9632 Jan	17	23:32	1°♒44'44	0°36'46
desc. node	9632 Jan	22	19:11	10°♒14'14	
max. Earth dist.	9632 Jan	25	11:55	14°♒50'25	1.41476 AU
evening rise	9632 Jan	30	11:32	23°♒04'33	
	9632 Feb	03	19:56	0°♓	
	9632 Feb	24	14:49	0°♈	
evening max el	9632 Mar	04	06:03	10°♈06'15	22°59'10
retrograde	9632 Mar	14	11:49	16°♈09'54	
asc. node	9632 Mar	16	15:34	15°♈47'08	
evening set	9632 Mar	19	09:23	14°♈07'56	
inferior conj	9632 Mar	24	18:17	7°♈42'44	2°21'26
minimum elong	9632 Mar	24	16:04	7°♈50'25	2°20'48
min. Earth dist.	9632 Mar	24	09:22	8°♈13'35	0.68535 AU
morning rise	9632 Mar	29	22:38	1°♈35'03	
	9632 Apr	01	18:59	30°℞♓	
direct	9632 Apr	03	09:09	29°♓46'32	
	9632 Apr	05	00:45	0°♈	
morning max el	9632 Apr	12	01:46	4°♈48'20	21°21'09
desc. node	9632 Apr	19	19:30	13°♈57'40	
	9632 May	01	04:23	0°♉	
morning set	9632 May	13	11:31	18°♉47'56	
	9632 May	20	10:30	0°♊	
max. Earth dist.	9632 May	20	07:42	29°♉48'32	1.42339 AU
superior conj	9632 May	27	17:18	12°♊14'39	-1°56'47
minimum elong	9632 May	27	23:13	12°♊40'09	1°56'39
	9632 Jun	06	17:51	0°♋	
evening rise	9632 Jun	08	00:34	2°♋19'06	
asc. node	9632 Jun	12	14:11	10°♋32'49	
evening max el	9632 Jun	24	09:24	28°♋07'20	18°07'20
	9632 Jun	26	15:10	0°♌	
retrograde	9632 Jul	01	04:13	1°♌34'21	
evening set	9632 Jul	03	15:00	1°♌07'42	
	9632 Jul	05	21:09	30°℞♋	
inferior conj	9632 Jul	10	11:33	26°♋14'55	1°46'17
minimum elong	9632 Jul	10	14:19	26°♋08'28	1°45'06
min. Earth dist.	9632 Jul	13	18:19	23°♋13'34	0.60286 AU
desc. node	9632 Jul	16	19:00	20°♋50'02	
morning rise	9632 Jul	17	10:48	20°♋24'11	
direct	9632 Jul	23	23:36	18°♋20'11	
morning max el	9632 Aug	07	07:13	26°♋15'51	27°48'17
	9632 Aug	10	19:12	0°♌	
	9632 Aug	30	22:46	0°♍	
morning set	9632 Sep	08	16:40	17°♍03'19	
asc. node	9632 Sep	08	13:59	16°♍49'19	
	9632 Sep	14	16:57	0°♎	
max. Earth dist.	9632 Sep	14	19:25	0°♎13'33	1.31618 AU
superior conj	9632 Sep	15	21:32	2°♎37'58	1°07'46
minimum elong	9632 Sep	15	19:18	2°♎25'34	1°07'25
evening rise	9632 Sep	22	15:04	17°♎25'26	
	9632 Sep	28	18:22	0°♏	
desc. node	9632 Oct	12	17:13	22°♏49'30	
	9632 Oct	18	20:12	0°♐	
evening max el	9632 Oct	20	01:06	1°♐10'57	25°36'03
retrograde	9632 Nov	02	22:49	8°♐11'52	
evening set	9632 Nov	09	00:35	6°♐46'29	
min. Earth dist.	9632 Nov	13	13:30	4°♐09'10	0.57756 AU
inferior conj	9632 Nov	16	13:27	2°♐04'18	-5°08'54
minimum elong	9632 Nov	16	20:15	1°♐52'27	5°07'21
	9632 Nov	19	16:24	30°℞♏	
morning rise	9632 Nov	24	18:14	27°♏45'58	
direct	9632 Nov	27	01:33	27°♏29'35	
	9632 Dec	03	19:08	0°♐	
asc. node	9632 Dec	05	13:55	1°♐30'32	
morning max el	9632 Dec	05	18:44	1°♐42'00	18°51'16
morning set	9632 Dec	22	04:27	28°♐02'58	
	9632 Dec	23	04:18	0°♑	
superior conj	9632 Dec	30	16:47	14°♑37'00	1°04'51
minimum elong	9632 Dec	30	20:00	14°♑52'15	1°04'46
max. Earth dist.	9633 Jan	06	18:44	27°♑37'12	1.39327 AU
	9633 Jan	08	03:12	0°♒	
desc. node	9633 Jan	08	16:05	0°♒56'09	
evening rise	9633 Jan	10	16:57	4°♒26'09	
	9633 Jan	26	23:17	0°♓	
evening max el	9633 Feb	14	20:04	23°♓53'51	24°19'14
	9633 Feb	23	07:12	0°♈	
retrograde	9633 Feb	26	04:12	0°♈32'25	
	9633 Feb	28	20:49	30°℞♓	
evening set	9633 Mar	03	13:55	28°♓17'05	
asc. node	9633 Mar	03	12:44	28°♓19'35	
min. Earth dist.	9633 Mar	08	05:28	22°♓57'39	0.68193 AU
inferior conj	9633 Mar	09	02:08	21°♓48'08	1°42'58
minimum elong	9633 Mar	09	00:06	21°♓54'58	1°42'21
morning rise	9633 Mar	14	10:22	15°♓47'20	
direct	9633 Mar	18	07:52	14°♓20'42	
morning max el	9633 Mar	25	23:30	18°♓39'06	20°06'51
	9633 Apr	04	04:14	0°♈	
desc. node	9633 Apr	06	16:21	3°♈32'18	
morning set	9633 Apr	22	12:00	27°♈14'39	
	9633 Apr	24	06:47	0°♉	
max. Earth dist.	9633 May	02	17:16	13°♉16'15	1.44070 AU
superior conj	9633 May	08	10:02	22°♉29'06	-2°11'28
minimum elong	9633 May	08	12:21	22°♉38'37	2°11'41
	9633 May	12	23:01	0°♊	
evening rise	9633 May	21	09:28	14°♊21'07	
asc. node	9633 May	30	11:15	29°♊45'27	
	9633 May	30	14:51	0°♋	
evening max el	9633 Jun	07	22:51	11°♋22'21	18°06'51
retrograde	9633 Jun	14	08:28	14°♋42'39	
evening set	9633 Jun	17	02:59	14°♋03'39	
inferior conj	9633 Jun	23	08:53	8°♋51'37	2°37'52
minimum elong	9633 Jun	23	11:33	8°♋44'35	2°36'56
min. Earth dist.	9633 Jun	26	05:20	5°♋51'44	0.62529 AU
morning rise	9633 Jun	29	18:16	2°♋43'22	
desc. node	9633 Jul	03	16:06	0°♋40'46	
direct	9633 Jul	06	11:51	0°♋15'15	

morning max el	9633 Jul 20 13:46	8°♋17'26	27°54'21
	9633 Aug 06 06:38	0°♌	
	9633 Aug 23 03:11	0°♍	
morning set	9633 Aug 23 16:00	1°♍04'47	
asc. node	9633 Aug 26 10:53	6°♍50'05	
max. Earth dist.	9633 Aug 29 00:49	12°♍19'33	1.32158 AU
superior conj	9633 Aug 31 06:28	17°♍10'30	0°46'46
minimum elong	9633 Aug 31 04:32	16°♍59'58	0°46'17
	9633 Sep 06 03:12	0°♎	
evening rise	9633 Sep 07 02:29	2°♎05'20	
	9633 Sep 22 03:37	0°♏	
desc. node	9633 Sep 29 14:25	9°♏36'47	
evening max el	9633 Oct 01 13:25	11°♏36'52	24°02'56
retrograde	9633 Oct 15 05:11	18°♏26'56	
evening set	9633 Oct 20 01:20	17°♏35'36	
min. Earth dist.	9633 Oct 25 24:00	14°♏39'39	0.56020 AU
inferior conj	9633 Oct 28 06:02	13°♏17'17	-5°40'36
minimum elong	9633 Oct 28 07:32	13°♏15'00	5°40'19
morning rise	9633 Nov 05 15:45	9°♏19'35	
direct	9633 Nov 08 08:38	9°♏00'45	
morning max el	9633 Nov 18 11:42	13°♏48'10	19°54'46
asc. node	9633 Nov 22 10:55	18°♏16'05	
	9633 Nov 29 21:21	0°♐	
morning set	9633 Dec 06 09:05	12°♐37'45	
superior conj	9633 Dec 14 03:23	28°♐22'51	1°24'19
minimum elong	9633 Dec 14 06:00	28°♐35'51	1°24'24
	9633 Dec 14 22:57	0°♑	
max. Earth dist.	9633 Dec 20 01:17	9°♑49'54	1.37158 AU
evening rise	9633 Dec 23 19:10	16°♑42'21	
desc. node	9633 Dec 26 13:04	21°♑33'15	
	9633 Dec 31 13:18	0°♒	
	9634 Jan 21 10:12	0°♓	
evening max el	9634 Jan 28 09:24	7°♓43'10	25°33'30
retrograde	9634 Feb 09 16:04	14°♓46'56	
evening set	9634 Feb 15 14:14	12°♓20'28	
asc. node	9634 Feb 18 09:54	9°♓28'31	
min. Earth dist.	9634 Feb 19 22:40	7°♓35'58	0.67452 AU
inferior conj	9634 Feb 21 07:02	5°♓52'26	0°55'43
minimum elong	9634 Feb 21 05:43	5°♓56'40	0°55'23
morning rise	9634 Feb 26 21:38	0°♓00'12	
	9634 Feb 26 21:46	30°℞♒	
direct	9634 Mar 02 07:12	28°♒53'55	
	9634 Mar 05 20:41	0°♓	
morning max el	9634 Mar 09 05:14	2°♓41'17	19°07'06
greatest brilliancy	9634 Mar 22 12:13	20°♓26'10	-0.7m
desc. node	9634 Mar 24 13:12	23°♓31'47	
	9634 Mar 28 18:28	0°♈	
morning set	9634 Apr 01 14:32	5°♈55'38	
max. Earth dist.	9634 Apr 15 09:07	27°♈23'17	1.45196 AU
	9634 Apr 17 00:55	0°♉	
superior conj	9634 Apr 18 03:51	1°♉46'19	-2°08'29
minimum elong	9634 Apr 17 23:03	1°♉27'21	2°08'28
evening rise	9634 May 02 20:12	25°♉25'39	
	9634 May 05 15:03	0°♊	
asc. node	9634 May 17 08:21	18°♊30'19	
evening max el	9634 May 22 11:56	24°♊51'30	18°24'49
retrograde	9634 May 28 22:14	28°♊19'16	
evening set	9634 Jun 01 00:20	27°♊26'23	
inferior conj	9634 Jun 06 19:36	21°♊56'54	3°07'25
minimum elong	9634 Jun 06 21:14	21°♊52'04	3°06'51
min. Earth dist.	9634 Jun 09 01:46	19°♊18'14	0.64551 AU
morning rise	9634 Jun 12 17:07	15°♊39'46	
direct	9634 Jun 19 08:32	12°♊57'39	
desc. node	9634 Jun 20 13:10	13°♊02'23	
morning max el	9634 Jul 02 23:47	20°♊56'26	27°24'31
	9634 Jul 10 19:38	0°♋	
	9634 Jul 30 09:44	0°♌	
morning set	9634 Aug 07 06:48	14°♌39'21	
max. Earth dist.	9634 Aug 11 22:39	24°♌02'49	1.33191 AU
asc. node	9634 Aug 13 07:47	26°♌55'20	
	9634 Aug 14 18:49	0°♍	
superior conj	9634 Aug 15 11:03	1°♍26'16	0°21'13
minimum elong	9634 Aug 15 10:01	1°♍20'45	0°20'48
evening rise	9634 Aug 22 13:45	16°♍41'36	
	9634 Aug 29 03:31	0°♎	
evening max el	9634 Sep 13 01:12	21°♎45'51	22°22'52
desc. node	9634 Sep 16 11:38	24°♎42'22	
retrograde	9634 Sep 25 23:41	28°♎12'43	
evening set	9634 Sep 29 07:49	27°♎48'05	
min. Earth dist.	9634 Oct 07 07:39	24°♎16'13	0.54905 AU
inferior conj	9634 Oct 08 05:13	23°♎45'47	-5°23'29
minimum elong	9634 Oct 07 22:49	23°♎54'50	5°22'30
morning rise	9634 Oct 16 15:32	19°♎58'30	
direct	9634 Oct 19 22:37	19°♎34'06	
morning max el	9634 Oct 31 15:19	25°♎04'16	21°20'19
	9634 Nov 05 02:23	0°♏	
asc. node	9634 Nov 09 07:54	6°♏00'06	
morning set	9634 Nov 20 18:04	27°♏22'32	
	9634 Nov 22 00:11	0°♐	
superior conj	9634 Nov 28 00:27	12°♐37'31	1°35'53
minimum elong	9634 Nov 28 01:55	12°♐45'08	1°36'08
max. Earth dist.	9634 Dec 02 11:49	21°♐43'46	1.35192 AU
evening rise	9634 Dec 06 14:49	29°♐43'41	
	9634 Dec 06 18:16	0°♑	
desc. node	9634 Dec 13 10:05	12°♑00'28	
	9634 Dec 24 17:06	0°♒	
evening max el	9635 Jan 10 22:40	21°♒27'42	26°34'51
retrograde	9635 Jan 23 22:44	28°♒45'57	
evening set	9635 Jan 30 08:33	26°♒12'25	
min. Earth dist.	9635 Feb 03 10:47	22°♒02'24	0.66325 AU
inferior conj	9635 Feb 05 06:56	19°♒50'40	-0°00'07
minimum elong	9635 Feb 05 06:55	19°♒50'42	0°00'09
transit middle	9635 Feb 05 06:55	19°♒50'42	0°00'09
transit begin	9635 Feb 05 04:01	19°♒59'25	
transit end	9635 Feb 05 09:50	19°♒41'59	
asc. node	9635 Feb 05 07:04	19°♒50'16	
morning rise	9635 Feb 11 06:17	14°♒09'03	
direct	9635 Feb 14 05:18	13°♒20'09	
morning max el	9635 Feb 20 17:32	16°♒49'11	18°23'27
	9635 Mar 02 15:33	0°♓	
desc. node	9635 Mar 11 10:01	13°♓48'48	
morning set	9635 Mar 12 15:59	15°♓48'08	
	9635 Mar 21 15:00	0°♈	
superior conj	9635 Mar 28 09:39	10°♈38'02	-1°45'15
minimum elong	9635 Mar 28 00:10	10°♈00'57	1°44'27
max. Earth dist.	9635 Mar 29 04:01	11°♈49'53	1.45601 AU
	9635 Apr 09 18:34	0°♉	
evening rise	9635 Apr 13 07:11	5°♉32'33	
greatest brilliancy	9635 Apr 23 08:36	21°♉18'38	-0.8m
	9635 Apr 29 03:56	0°♊	
asc. node	9635 May 04 05:29	6°♊38'16	
evening max el	9635 May 05 22:03	8°♊28'19	19°00'29
retrograde	9635 May 12 17:41	12°♊16'20	
evening set	9635 May 16 03:39	11°♊08'40	
inferior conj	9635 May 21 15:55	5°♊23'31	3°19'23
minimum elong	9635 May 21 16:19	5°♊22'16	3°19'03
min. Earth dist.	9635 May 23 06:57	3°♊19'28	0.66207 AU
	9635 May 26 04:31	30°℞♉	

morning rise	9635 May 27 04:26	29°♉03'37	
direct	9635 Jun 02 12:27	26°♉18'47	
desc. node	9635 Jun 07 10:11	27°♉39'30	
	9635 Jun 11 00:01	0°♊	
morning max el	9635 Jun 15 10:33	4°♊00'46	26°25'35
	9635 Jul 05 04:49	0°♋	
morning set	9635 Jul 21 09:49	27°♋38'38	
	9635 Jul 22 15:44	0°♌	
max. Earth dist.	9635 Jul 25 10:05	5°♌20'50	1.34711 AU
superior conj	9635 Jul 30 08:56	15°♌19'10	-0°08'11
minimum elong	9635 Jul 30 09:25	15°♌21'38	0°08'22
behind sun begin	9635 Jul 30 04:20	14°♌55'31	
behind sun end	9635 Jul 30 14:29	15°♌47'47	
asc. node	9635 Jul 31 04:43	17°♌01'19	
	9635 Aug 06 09:41	0°♍	
evening rise	9635 Aug 06 22:54	1°♍08'46	
	9635 Aug 23 19:17	0°♎	
evening max el	9635 Aug 25 21:50	2°♎15'49	20°51'53
desc. node	9635 Sep 03 08:50	7°♎35'49	
retrograde	9635 Sep 06 11:50	8°♎00'26	
evening set	9635 Sep 08 17:05	7°♎48'39	
inferior conj	9635 Sep 17 21:31	3°♎52'31	-4°10'25
minimum elong	9635 Sep 17 11:45	4°♎06'24	4°07'37
min. Earth dist.	9635 Sep 18 16:14	3°♎25'50	0.54668 AU
morning rise	9635 Sep 26 06:30	29°♍55'51	
	9635 Sep 26 00:42	30°℞♍	
direct	9635 Sep 30 06:37	29°♍21'27	
	9635 Oct 04 10:00	0°♎	
morning max el	9635 Oct 13 07:52	5°♎37'19	23°02'24
asc. node	9635 Oct 27 04:50	24°♎29'03	
	9635 Oct 30 04:58	0°♏	
morning set	9635 Nov 05 05:20	12°♏11'23	
superior conj	9635 Nov 12 04:42	27°♏11'24	1°40'22
minimum elong	9635 Nov 12 04:55	27°♏12'33	1°40'39
	9635 Nov 13 12:17	0°♐	
max. Earth dist.	9635 Nov 15 05:53	3°♐39'23	1.33595 AU
evening rise	9635 Nov 20 00:09	13°♐21'02	
	9635 Nov 29 00:06	0°♑	
desc. node	9635 Nov 30 07:08	2°♑12'35	
	9635 Dec 19 18:00	0°♒	
evening max el	9635 Dec 24 11:41	4°♒59'15	27°16'02
retrograde	9636 Jan 06 23:28	12°♒21'35	
evening set	9636 Jan 13 18:41	9°♒47'07	
min. Earth dist.	9636 Jan 17 15:43	6°♒10'13	0.64840 AU
inferior conj	9636 Jan 19 23:28	3°♒37'55	-1°03'56
minimum elong	9636 Jan 20 01:24	3°♒32'38	1°02'48
asc. node	9636 Jan 23 04:12	0°♒22'22	
	9636 Jan 23 14:27	30°℞♑	
morning rise	9636 Jan 26 09:42	28°♑09'15	
direct	9636 Jan 28 23:59	27°♑34'00	
	9636 Feb 03 09:42	0°♒	
morning max el	9636 Feb 04 09:55	0°♒55'50	17°56'37
morning set	9636 Feb 21 22:50	27°♒07'52	
	9636 Feb 23 16:18	0°♓	
desc. node	9636 Feb 26 06:50	4°♓18'24	
superior conj	9636 Mar 06 22:03	19°♓54'42	-1°06'52
minimum elong	9636 Mar 06 14:35	19°♓25'00	1°05'50
max. Earth dist.	9636 Mar 10 23:24	26°♓19'57	1.45266 AU
	9636 Mar 13 07:31	0°♈	
evening rise	9636 Mar 22 23:44	14°♈59'37	
	9636 Apr 01 19:56	0°♉	
greatest brilliancy	9636 Apr 06 10:55	6°♉53'00	-0.6m
evening max el	9636 Apr 18 03:24	22°♉08'17	19°52'23
asc. node	9636 Apr 20 02:37	23°♉57'20	
retrograde	9636 Apr 25 15:47	26°♉27'12	
evening set	9636 Apr 29 10:24	25°♉04'13	
inferior conj	9636 May 04 18:45	19°♉05'04	3°17'14
minimum elong	9636 May 04 18:00	19°♉07'34	3°16'56
min. Earth dist.	9636 May 05 19:08	17°♉43'10	0.67438 AU
morning rise	9636 May 10 01:17	12°♉46'15	
direct	9636 May 15 22:23	10°♉09'07	
desc. node	9636 May 24 07:07	14°♉01'28	
morning max el	9636 May 27 20:15	17°♉18'03	25°06'40
	9636 Jun 07 10:26	0°♊	
	9636 Jun 27 04:38	0°♋	
morning set	9636 Jul 02 20:36	9°♋49'50	
max. Earth dist.	9636 Jul 06 11:14	16°♋24'12	1.36666 AU
superior conj	9636 Jul 12 21:05	28°♋40'44	-0°40'14
minimum elong	9636 Jul 12 23:36	28°♋53'10	0°40'05
	9636 Jul 13 13:07	0°♌	
asc. node	9636 Jul 17 01:39	7°♌03'30	
evening rise	9636 Jul 21 03:33	15°♌19'26	
	9636 Jul 28 18:39	0°♍	
evening max el	9636 Aug 07 07:57	13°♍28'17	19°39'06
retrograde	9636 Aug 17 04:54	18°♍21'31	
evening set	9636 Aug 19 01:15	18°♍12'01	
desc. node	9636 Aug 20 06:01	17°♍56'10	
inferior conj	9636 Aug 27 21:18	14°♍08'43	-2°20'44
minimum elong	9636 Aug 27 14:57	14°♍18'41	2°18'29
min. Earth dist.	9636 Aug 30 03:28	12°♍44'02	0.55389 AU
morning rise	9636 Sep 05 02:29	9°♍43'45	
direct	9636 Sep 09 22:03	8°♍52'11	
morning max el	9636 Sep 23 19:35	15°♍47'59	24°48'43
	9636 Oct 05 04:50	0°♎	
asc. node	9636 Oct 13 01:44	13°♎31'17	
morning set	9636 Oct 19 17:04	26°♎58'48	
	9636 Oct 21 02:46	0°♏	
superior conj	9636 Oct 26 13:28	11°♏55'58	1°38'29
minimum elong	9636 Oct 26 12:34	11°♏51'02	1°38'40
max. Earth dist.	9636 Oct 28 07:54	15°♏47'37	1.32440 AU
evening rise	9636 Nov 02 19:42	27°♏24'54	
	9636 Nov 04 02:16	0°♐	
desc. node	9636 Nov 16 04:15	22°♐02'37	
	9636 Nov 21 06:42	0°♑	
evening max el	9636 Dec 05 22:59	18°♑06'14	27°30'17
retrograde	9636 Dec 19 17:19	25°♑24'55	
evening set	9636 Dec 26 18:00	22°♑57'37	
min. Earth dist.	9636 Dec 30 11:30	19°♑50'23	0.63044 AU
inferior conj	9637 Jan 02 05:54	17°♑07'34	-2°14'13
minimum elong	9637 Jan 02 10:15	16°♑56'52	2°12'09
morning rise	9637 Jan 09 04:38	11°♑54'49	
asc. node	9637 Jan 09 01:16	11°♑57'56	
direct	9637 Jan 11 12:28	11°♑29'17	
morning max el	9637 Jan 18 03:24	14°♑53'31	17°47'15
	9637 Jan 28 16:38	0°♒	
morning set	9637 Feb 03 07:04	9°♒41'27	
desc. node	9637 Feb 12 03:42	24°♒56'40	
superior conj	9637 Feb 15 07:43	0°♓14'27	-0°23'24
minimum elong	9637 Feb 15 05:18	0°♓04'27	0°22'49
	9637 Feb 15 04:14	0°♓	
max. Earth dist.	9637 Feb 21 17:10	10°♓39'12	1.44234 AU
evening rise	9637 Mar 02 11:20	24°♓23'39	
	9637 Mar 06 03:18	0°♈	
	9637 Mar 27 01:44	0°♉	
evening max el	9637 Apr 01 03:15	5°♉50'07	20°57'54
asc. node	9637 Apr 06 23:46	10°♉13'53	
retrograde	9637 Apr 09 14:19	10°♉47'42	
evening set	9637 Apr 13 18:37	9°♉09'09	

inferior conj	9637 Apr 19 01:35	2°♉57'50	3°03'25
minimum elong	9637 Apr 18 23:59	3°♉03'22	3°03'00
min. Earth dist.	9637 Apr 19 12:18	2°♉20'45	0.68220 AU
	9637 Apr 21 06:05	30°℞♈	
morning rise	9637 Apr 24 05:07	26°♈42'24	
direct	9637 Apr 29 13:16	24°♈20'54	
	9637 May 09 12:10	0°♉	
morning max el	9637 May 10 05:32	0°♉43'02	23°37'59
desc. node	9637 May 11 04:01	1°♉41'07	
	9637 Jun 01 08:01	0°♊	
morning set	9637 Jun 14 09:59	20°♊59'41	
max. Earth dist.	9637 Jun 18 07:40	27°♊43'58	1.38900 AU
	9637 Jun 19 14:28	0°♋	
superior conj	9637 Jun 25 19:53	11°♋22'16	-1°12'53
minimum elong	9637 Jun 26 00:37	11°♋44'29	1°12'29
asc. node	9637 Jul 03 22:37	26°♋58'10	
evening rise	9637 Jul 05 01:01	29°♋06'41	
	9637 Jul 05 11:59	0°♌	
evening max el	9637 Jul 21 06:26	25°♌25'43	18°47'17
retrograde	9637 Jul 29 14:09	29°♌34'15	
evening set	9637 Jul 31 13:27	29°♌21'10	
desc. node	9637 Aug 07 03:10	26°♌05'16	
inferior conj	9637 Aug 08 15:34	25°♌00'14	-0°27'57
minimum elong	9637 Aug 08 14:25	25°♌02'20	0°27'45
min. Earth dist.	9637 Aug 11 18:49	22°♌44'11	0.56925 AU
morning rise	9637 Aug 16 12:01	19°♌58'15	
direct	9637 Aug 22 02:56	18°♌41'41	
morning max el	9637 Sep 05 09:45	26°♌07'25	26°22'14
	9637 Sep 09 01:55	0°♍	
	9637 Sep 28 10:20	0°♎	
asc. node	9637 Sep 29 22:36	2°♎58'20	
morning set	9637 Oct 04 03:39	11°♎40'17	
superior conj	9637 Oct 11 00:40	26°♎44'47	1°30'47
minimum elong	9637 Oct 10 22:56	26°♎35'10	1°30'46
max. Earth dist.	9637 Oct 11 15:37	28°♎07'40	1.31752 AU
	9637 Oct 12 11:55	0°♏	
evening rise	9637 Oct 17 22:36	11°♏47'22	
	9637 Oct 27 06:25	0°♐	
desc. node	9637 Nov 03 01:23	11°♐21'13	
	9637 Nov 17 15:29	0°♑	
evening max el	9637 Nov 18 05:58	0°♑34'41	27°12'06
retrograde	9637 Dec 02 03:05	7°♑46'18	
evening set	9637 Dec 09 02:58	5°♑35'30	
min. Earth dist.	9637 Dec 12 20:34	2°♑50'58	0.61023 AU
inferior conj	9637 Dec 15 22:56	0°♑10'19	-3°27'29
minimum elong	9637 Dec 16 05:39	29°♐55'46	3°24'50
	9637 Dec 16 03:41	30°℞♐	
morning rise	9637 Dec 23 10:46	25°♐16'56	
direct	9637 Dec 25 15:05	24°♐57'30	
asc. node	9637 Dec 26 22:19	25°♐04'40	
morning max el	9638 Jan 01 18:42	28°♐32'57	17°56'16
	9638 Jan 03 03:30	0°♑	
morning set	9638 Jan 17 10:00	23°♑07'30	
	9638 Jan 21 04:18	0°♒	
superior conj	9638 Jan 27 18:42	11°♒46'15	0°16'54
minimum elong	9638 Jan 27 20:08	11°♒52'31	0°16'58
desc. node	9638 Jan 30 00:35	15°♒39'17	
max. Earth dist.	9638 Feb 04 07:15	24°♒31'50	1.42611 AU
	9638 Feb 07 15:48	0°♓	
evening rise	9638 Feb 10 08:51	4°♓19'32	
	9638 Feb 27 11:38	0°♈	
evening max el	9638 Mar 14 21:57	19°♈33'09	22°13'16
retrograde	9638 Mar 24 11:32	25°♈12'49	
asc. node	9638 Mar 24 20:55	25°♈12'03	
evening set	9638 Mar 29 02:37	23°♈18'59	
inferior conj	9638 Apr 03 10:18	16°♈57'56	2°39'27
minimum elong	9638 Apr 03 08:11	17°♈05'16	2°38'53
min. Earth dist.	9638 Apr 03 08:16	17°♈04'58	0.68551 AU
morning rise	9638 Apr 08 13:37	10°♈47'15	
direct	9638 Apr 13 07:59	8°♈46'14	
morning max el	9638 Apr 22 17:16	14°♈16'13	22°09'08
desc. node	9638 Apr 28 00:54	20°♈16'52	
	9638 May 05 09:13	0°♉	
	9638 May 25 07:09	0°♊	
morning set	9638 May 25 21:16	0°♊56'52	
max. Earth dist.	9638 May 31 06:40	9°♊49'16	1.41150 AU
superior conj	9638 Jun 08 00:55	23°♊13'06	-1°42'45
minimum elong	9638 Jun 08 07:04	23°♊40'28	1°42'25
	9638 Jun 11 19:22	0°♋	
evening rise	9638 Jun 18 11:46	12°♋21'25	
asc. node	9638 Jun 20 19:37	16°♋40'46	
	9638 Jun 28 10:39	0°♌	
evening max el	9638 Jul 04 13:41	8°♌00'34	18°16'11
retrograde	9638 Jul 11 18:46	11°♌38'37	
evening set	9638 Jul 14 01:02	11°♌17'54	
inferior conj	9638 Jul 21 07:39	6°♌36'23	1°04'55
minimum elong	9638 Jul 21 09:42	6°♌32'00	1°03'55
min. Earth dist.	9638 Jul 24 16:32	3°♌45'09	0.58982 AU
desc. node	9638 Jul 25 00:16	3°♌29'39	
morning rise	9638 Jul 28 15:07	1°♌00'27	
	9638 Jul 30 18:46	30°℞♋	
direct	9638 Aug 03 21:32	29°♋13'53	
	9638 Aug 08 03:12	0°♌	
morning max el	9638 Aug 18 06:38	7°♌01'09	27°27'33
	9638 Sep 04 12:59	0°♍	
asc. node	9638 Sep 16 19:29	22°♍43'19	
morning set	9638 Sep 18 11:27	26°♍11'16	
	9638 Sep 20 06:25	0°♎	
max. Earth dist.	9638 Sep 25 01:32	10°♎31'37	1.31528 AU
superior conj	9638 Sep 25 12:27	11°♎32'13	1°17'41
minimum elong	9638 Sep 25 10:15	11°♎20'04	1°17'25
evening rise	9638 Oct 02 06:25	26°♎21'45	
	9638 Oct 03 23:44	0°♏	
desc. node	9638 Oct 20 22:32	29°♏56'08	
	9638 Oct 20 23:37	0°♐	
evening max el	9638 Oct 31 05:48	12°♐14'02	26°19'53
retrograde	9638 Nov 14 03:46	19°♐19'08	
evening set	9638 Nov 20 17:19	17°♐34'28	
min. Earth dist.	9638 Nov 24 19:00	14°♐59'50	0.58922 AU
inferior conj	9638 Nov 27 23:04	12°♐36'52	-4°36'15
minimum elong	9638 Nov 28 06:47	12°♐22'20	4°33'59
morning rise	9638 Dec 05 22:44	8°♐05'47	
direct	9638 Dec 08 03:29	7°♐49'13	
asc. node	9638 Dec 13 19:20	9°♐46'19	
morning max el	9638 Dec 16 04:19	11°♐45'00	18°25'05
	9638 Dec 28 07:18	0°♑	
morning set	9639 Jan 01 02:01	7°♑09'24	
superior conj	9639 Jan 10 04:04	24°♑21'33	0°49'47
minimum elong	9639 Jan 10 07:09	24°♑35'41	0°49'39
	9639 Jan 13 06:36	0°♒	
desc. node	9639 Jan 16 21:32	6°♒22'56	
max. Earth dist.	9639 Jan 17 16:22	7°♒44'14	1.40584 AU
evening rise	9639 Jan 22 01:45	15°♒08'16	
	9639 Jan 31 10:31	0°♓	
	9639 Feb 22 10:34	0°♈	
evening max el	9639 Feb 25 12:57	3°♈18'30	23°33'21
retrograde	9639 Mar 08 06:08	9°♈38'09	
asc. node	9639 Mar 11 18:04	8°♈39'18	

evening set	9639 Mar 13 08:53	7°♈29'58	
min. Earth dist.	9639 Mar 18 04:58	1°♈50'40	0.68445 AU
inferior conj	9639 Mar 18 19:01	1°♈02'32	2°06'10
minimum elong	9639 Mar 18 16:49	1°♈10'04	2°05'32
	9639 Mar 19 13:20	30°℞♓	
morning rise	9639 Mar 24 00:44	24°♓57'47	
direct	9639 Mar 28 05:33	23°♓18'54	
morning max el	9639 Apr 05 10:50	28°♓00'52	20°47'55
	9639 Apr 07 08:00	0°♈	
desc. node	9639 Apr 14 21:48	9°♈33'31	
	9639 Apr 28 22:28	0°♉	
morning set	9639 May 05 07:10	9°♉46'45	
max. Earth dist.	9639 May 13 11:59	22°♉48'01	1.43138 AU
	9639 May 17 21:21	0°♊	
superior conj	9639 May 20 07:42	4°♊03'46	-2°04'48
minimum elong	9639 May 20 12:39	4°♊24'37	2°04'51
evening rise	9639 Jun 01 07:32	24°♊53'16	
	9639 Jun 04 04:46	0°♋	
asc. node	9639 Jun 07 16:39	6°♋06'06	
evening max el	9639 Jun 18 01:51	21°♋03'17	18°04'49
retrograde	9639 Jun 24 15:41	24°♋26'03	
evening set	9639 Jun 27 05:39	23°♋54'32	
inferior conj	9639 Jul 03 19:28	18°♋53'18	2°11'10
minimum elong	9639 Jul 03 22:21	18°♋46'11	2°10'02
min. Earth dist.	9639 Jul 06 22:34	15°♋49'40	0.61244 AU
morning rise	9639 Jul 10 12:36	12°♋53'32	
desc. node	9639 Jul 11 21:24	12°♋03'36	
direct	9639 Jul 17 04:09	10°♋38'16	
morning max el	9639 Jul 31 10:19	18°♋38'39	27°55'43
	9639 Aug 09 23:55	0°♌	
	9639 Aug 28 08:34	0°♍	
morning set	9639 Sep 02 14:29	10°♍25'10	
asc. node	9639 Sep 03 16:23	12°♍39'40	
max. Earth dist.	9639 Sep 08 09:35	22°♍46'27	1.31780 AU
superior conj	9639 Sep 09 22:55	26°♍11'34	0°59'28
minimum elong	9639 Sep 09 20:45	25°♍59'35	0°59'01
	9639 Sep 11 16:17	0°♎	
evening rise	9639 Sep 16 17:01	11°♎00'47	
	9639 Sep 26 06:34	0°♏	
desc. node	9639 Oct 07 19:43	17°♏29'09	
evening max el	9639 Oct 12 21:23	23°♏02'08	24°58'25
	9639 Oct 26 10:26	0°♐	
retrograde	9639 Oct 26 17:44	0°♐00'13	
	9639 Oct 27 01:01	30°℞♏	
evening set	9639 Nov 01 08:20	28°♏49'14	
min. Earth dist.	9639 Nov 06 08:59	26°♏06'19	0.56959 AU
inferior conj	9639 Nov 09 03:21	24°♏17'37	-5°27'05
minimum elong	9639 Nov 09 08:30	24°♏09'10	5°26'11
morning rise	9639 Nov 17 10:58	20°♏09'01	
direct	9639 Nov 19 21:25	19°♏52'09	
morning max el	9639 Nov 29 04:24	24°♏18'14	19°15'30
asc. node	9639 Nov 30 16:22	25°♏50'56	
	9639 Dec 03 23:36	0°♐	
morning set	9639 Dec 16 02:57	21°♐34'25	
	9639 Dec 20 08:12	0°♑	
superior conj	9639 Dec 24 06:49	7°♑45'20	1°14'06
minimum elong	9639 Dec 24 09:52	8°♑00'10	1°14'05
max. Earth dist.	9639 Dec 30 22:05	20°♑13'11	1.38392 AU
evening rise	9640 Jan 03 16:18	26°♑53'55	
desc. node	9640 Jan 03 18:30	27°♑03'30	
	9640 Jan 05 11:30	0°♒	
	9640 Jan 24 23:18	0°♓	
evening max el	9640 Feb 08 02:21	17°♓06'44	24°51'54
retrograde	9640 Feb 19 20:55	23°♓58'12	

evening set	9640 Feb 25 11:53	21°♓37'41	
asc. node	9640 Feb 26 15:14	20°♓33'57	
min. Earth dist.	9640 Mar 01 00:12	16°♓33'01	0.67923 AU
inferior conj	9640 Mar 02 01:53	15°♓08'12	1°24'00
minimum elong	9640 Mar 02 00:05	15°♓14'08	1°23'28
morning rise	9640 Mar 07 12:32	9°♓10'45	
direct	9640 Mar 11 04:41	7°♓53'16	
morning max el	9640 Mar 18 12:04	11°♓57'18	19°39'27
greatest brilliancy	9640 Mar 31 05:05	28°♓30'01	-0.6m
desc. node	9640 Mar 31 18:39	29°♓19'55	
	9640 Apr 01 05:31	0°♈	
morning set	9640 Apr 13 05:26	18°♈10'52	
	9640 Apr 20 20:11	0°♉	
max. Earth dist.	9640 Apr 24 23:56	6°♉32'41	1.44626 AU
superior conj	9640 Apr 29 14:06	13°♉52'18	-2°12'40
minimum elong	9640 Apr 29 13:37	13°♉50'19	2°12'53
	9640 May 09 10:10	0°♊	
evening rise	9640 May 13 07:30	6°♊31'53	
asc. node	9640 May 24 13:44	25°♊08'22	
	9640 May 27 21:57	0°♋	
evening max el	9640 May 31 15:33	4°♋25'41	18°12'20
retrograde	9640 Jun 07 00:26	7°♋47'35	
evening set	9640 Jun 09 22:06	7°♋02'59	
inferior conj	9640 Jun 15 23:02	1°♋43'37	2°52'48
minimum elong	9640 Jun 16 01:19	1°♋37'16	2°52'01
	9640 Jun 17 12:13	30°℞♊	
min. Earth dist.	9640 Jun 18 13:48	28°♊50'19	0.63423 AU
morning rise	9640 Jun 22 03:01	25°♊30'33	
desc. node	9640 Jun 27 18:29	22°♊58'35	
direct	9640 Jun 28 20:31	22°♊54'44	
	9640 Jul 11 19:12	0°♋	
morning max el	9640 Jul 12 18:40	0°♋57'42	27°45'42
	9640 Aug 03 03:15	0°♌	
morning set	9640 Aug 16 10:31	24°♌16'13	
	9640 Aug 19 06:02	0°♍	
asc. node	9640 Aug 20 13:18	2°♍43'02	
max. Earth dist.	9640 Aug 21 11:57	4°♍42'30	1.32530 AU
superior conj	9640 Aug 24 06:16	10°♍37'49	0°36'27
minimum elong	9640 Aug 24 04:39	10°♍29'03	0°35'59
evening rise	9640 Aug 31 04:35	25°♍39'34	
	9640 Sep 02 05:54	0°♎	
	9640 Sep 20 06:42	0°♏	
evening max el	9640 Sep 23 08:24	3°♏16'28	23°20'15
desc. node	9640 Sep 23 16:54	3°♏36'47	
retrograde	9640 Oct 06 19:02	9°♏58'55	
evening set	9640 Oct 10 23:32	9°♏20'44	
min. Earth dist.	9640 Oct 17 18:07	6°♏11'08	0.55449 AU
inferior conj	9640 Oct 19 11:44	5°♏10'10	-5°40'17
minimum elong	9640 Oct 19 09:50	5°♏12'58	5°40'02
morning rise	9640 Oct 27 22:02	1°♏18'24	
direct	9640 Oct 30 20:21	0°♏57'40	
morning max el	9640 Nov 10 15:44	6°♏03'13	20°28'36
asc. node	9640 Nov 16 13:21	13°♏02'59	
	9640 Nov 26 07:44	0°♐	
morning set	9640 Nov 29 09:41	6°♐13'55	
superior conj	9640 Dec 06 22:17	21°♐44'29	1°30'07
minimum elong	9640 Dec 07 00:26	21°♐55'27	1°30'18
	9640 Dec 11 01:47	0°♑	
max. Earth dist.	9640 Dec 12 05:27	2°♑13'54	1.36287 AU
evening rise	9640 Dec 16 02:24	9°♑30'40	
desc. node	9640 Dec 20 15:29	17°♑37'02	
	9640 Dec 28 03:21	0°♒	
	9641 Jan 19 17:24	0°♓	
evening max el	9641 Jan 20 15:43	0°♓55'23	26°01'42

retrograde	9641 Feb 02 06:46	8°♓06'48	
evening set	9641 Feb 08 09:53	5°♓37'01	
min. Earth dist.	9641 Feb 12 15:39	1°♓06'59	0.67016 AU
asc. node	9641 Feb 12 12:25	1°♓16'55	
	9641 Feb 13 13:13	30°℞♒	
inferior conj	9641 Feb 14 04:57	29°♒10'48	0°33'05
minimum elong	9641 Feb 14 04:06	29°♒13'25	0°32'57
morning rise	9641 Feb 19 22:58	23°♒22'30	
direct	9641 Feb 23 03:49	22°♒24'00	
morning max el	9641 Mar 01 20:46	26°♒02'21	18°46'23
	9641 Mar 05 08:41	0°♓	
desc. node	9641 Mar 18 15:30	19°♓27'41	
morning set	9641 Mar 23 15:52	27°♓17'11	
	9641 Mar 25 09:31	0°♈	
max. Earth dist.	9641 Apr 07 17:13	20°♈49'26	1.45461 AU
superior conj	9641 Apr 09 00:52	22°♈53'31	-2°00'59
minimum elong	9641 Apr 08 17:20	22°♈23'59	2°00'39
	9641 Apr 13 13:18	0°♉	
evening rise	9641 Apr 24 07:55	17°♉10'33	
greatest brilliancy	9641 Apr 30 22:03	27°♉46'40	-0.9m
	9641 May 02 07:27	0°♊	
asc. node	9641 May 11 10:51	13°♊38'52	
evening max el	9641 May 15 03:43	17°♊59'09	18°37'58
retrograde	9641 May 21 16:53	21°♊33'42	
evening set	9641 May 24 22:20	20°♊34'34	
inferior conj	9641 May 30 14:13	14°♊58'28	3°14'22
minimum elong	9641 May 30 15:20	14°♊55'04	3°13'56
min. Earth dist.	9641 Jun 01 14:01	12°♊33'13	0.65312 AU
morning rise	9641 Jun 05 07:34	8°♊39'47	
direct	9641 Jun 11 20:33	5°♊54'58	
desc. node	9641 Jun 14 15:31	6°♊21'03	
morning max el	9641 Jun 25 05:01	13°♊48'00	27°02'23
	9641 Jul 08 07:32	0°♋	
	9641 Jul 26 19:26	0°♌	
morning set	9641 Jul 30 20:41	7°♌36'25	
max. Earth dist.	9641 Aug 04 05:18	16°♌13'16	1.33782 AU
asc. node	9641 Aug 07 10:14	22°♌49'00	
superior conj	9641 Aug 08 08:18	24°♌44'34	0°09'10
minimum elong	9641 Aug 08 07:50	24°♌42'07	0°08'51
behind sun begin	9641 Aug 08 03:05	24°♌17'12	
behind sun end	9641 Aug 08 12:35	25°♌07'04	
	9641 Aug 10 19:55	0°♍	
evening rise	9641 Aug 15 15:10	10°♍12'23	
	9641 Aug 25 21:24	0°♎	
evening max el	9641 Sep 04 23:06	13°♎30'33	21°42'21
desc. node	9641 Sep 10 14:04	17°♎49'42	
retrograde	9641 Sep 17 09:11	19°♎40'42	
evening set	9641 Sep 20 03:59	19°♎23'12	
inferior conj	9641 Sep 29 06:15	15°♎25'28	-4°58'49
minimum elong	9641 Sep 28 21:29	15°♎37'43	4°56'56
min. Earth dist.	9641 Sep 29 01:45	15°♎31'45	0.54689 AU
morning rise	9641 Oct 07 16:07	11°♎36'50	
direct	9641 Oct 11 06:30	11°♎08'34	
morning max el	9641 Oct 23 13:52	16°♎58'21	22°02'20
	9641 Nov 02 17:44	0°♏	
asc. node	9641 Nov 03 10:19	1°♏07'39	
morning set	9641 Nov 13 19:53	21°♏01'16	
	9641 Nov 18 01:20	0°♐	
superior conj	9641 Nov 20 22:44	6°♐08'17	1°38'36
minimum elong	9641 Nov 20 23:40	6°♐13'13	1°38'53
max. Earth dist.	9641 Nov 24 19:14	14°♐07'58	1.34463 AU
evening rise	9641 Nov 29 04:20	22°♐48'52	
	9641 Dec 03 00:12	0°♑	
desc. node	9641 Dec 07 12:31	7°♑58'54	
	9641 Dec 21 20:13	0°♒	
evening max el	9642 Jan 03 05:15	14°♒37'02	26°55'20
retrograde	9642 Jan 16 10:48	21°♒57'19	
evening set	9642 Jan 23 00:59	19°♒22'50	
min. Earth dist.	9642 Jan 27 01:01	15°♒27'02	0.65738 AU
inferior conj	9642 Jan 29 02:02	13°♒05'50	-0°26'11
minimum elong	9642 Jan 29 02:47	13°♒03'42	0°25'37
asc. node	9642 Jan 30 09:32	11°♒36'27	
morning rise	9642 Feb 04 05:45	7°♒29'10	
direct	9642 Feb 07 00:55	6°♒46'24	
morning max el	9642 Feb 13 11:07	10°♒10'52	18°09'56
	9642 Feb 27 10:13	0°♓	
morning set	9642 Mar 04 06:01	7°♓48'27	
desc. node	9642 Mar 05 12:21	9°♓51'10	
	9642 Mar 18 03:14	0°♈	
superior conj	9642 Mar 19 07:10	1°♈49'54	-1°30'16
minimum elong	9642 Mar 18 21:49	1°♈13'07	1°29'15
max. Earth dist.	9642 Mar 21 13:12	5°♈21'48	1.45559 AU
evening rise	9642 Apr 04 09:59	26°♈57'46	
	9642 Apr 06 08:55	0°♉	
greatest brilliancy	9642 Apr 16 12:47	15°♉37'59	-0.7m
	9642 Apr 26 23:36	0°♊	
asc. node	9642 Apr 28 07:58	1°♊27'35	
evening max el	9642 Apr 28 12:01	1°♊37'55	19°20'38
retrograde	9642 May 05 13:44	5°♊37'29	
evening set	9642 May 09 03:23	4°♊23'08	
	9642 May 13 10:16	30°℞♉	
inferior conj	9642 May 14 13:38	28°♉31'44	3°19'59
minimum elong	9642 May 14 13:31	28°♉32'06	3°19'41
min. Earth dist.	9642 May 15 22:15	26°♉45'20	0.66796 AU
morning rise	9642 May 19 23:16	22°♉12'10	
direct	9642 May 26 02:59	19°♉29'43	
desc. node	9642 Jun 01 12:30	21°♉46'23	
morning max el	9642 Jun 07 15:22	26°♉58'36	25°53'48
	9642 Jun 10 11:00	0°♊	
	9642 Jul 01 22:45	0°♋	
morning set	9642 Jul 13 17:19	20°♋16'08	
max. Earth dist.	9642 Jul 17 12:15	27°♋23'13	1.35504 AU
	9642 Jul 18 20:43	0°♌	
superior conj	9642 Jul 23 02:24	8°♌24'50	-0°21'34
minimum elong	9642 Jul 23 03:42	8°♌31'22	0°21'36
asc. node	9642 Jul 25 07:09	12°♌53'39	
evening rise	9642 Jul 30 22:41	24°♌33'17	
	9642 Aug 02 15:01	0°♍	
evening max el	9642 Aug 18 01:11	24°♍16'26	20°18'20
desc. node	9642 Aug 28 11:15	29°♍38'56	
retrograde	9642 Aug 28 21:46	29°♍39'26	
evening set	9642 Aug 30 21:23	29°♍29'25	
inferior conj	9642 Sep 08 23:53	25°♍31'32	-3°26'19
minimum elong	9642 Sep 08 14:58	25°♍44'37	3°23'24
min. Earth dist.	9642 Sep 10 10:51	24°♍40'13	0.54860 AU
morning rise	9642 Sep 17 07:47	21°♍25'09	
direct	9642 Sep 21 15:58	20°♍44'35	
morning max el	9642 Oct 05 03:18	27°♍17'42	23°48'16
	9642 Oct 07 19:00	0°♎	
asc. node	9642 Oct 21 07:14	19°♎51'55	
	9642 Oct 26 12:32	0°♏	
morning set	9642 Oct 29 07:32	5°♏50'08	
superior conj	9642 Nov 05 05:09	20°♏47'20	1°40'19
minimum elong	9642 Nov 05 04:52	20°♏45'48	1°40'35
max. Earth dist.	9642 Nov 07 17:02	26°♏09'16	1.33043 AU
	9642 Nov 09 12:44	0°♐	
evening rise	9642 Nov 12 18:21	6°♐38'05	
desc. node	9642 Nov 24 09:34	28°♐02'32	

	9642 Nov 25 13:58	0°♑	
evening max el	9642 Dec 16 17:45	27°♑59'27	27°25'45
	9642 Dec 18 23:21	0°♒	
retrograde	9642 Dec 30 08:29	5°♒20'29	
evening set	9643 Jan 06 06:51	2°♒47'48	
	9643 Jan 09 11:51	30°℞♑	
min. Earth dist.	9643 Jan 10 02:03	29°♑24'26	0.64114 AU
inferior conj	9643 Jan 12 14:36	26°♑46'17	-1°33'04
minimum elong	9643 Jan 12 17:31	26°♑38'39	1°31'32
asc. node	9643 Jan 17 06:38	22°♑30'00	
morning rise	9643 Jan 19 06:00	21°♑24'10	
direct	9643 Jan 21 17:21	20°♑53'25	
morning max el	9643 Jan 28 04:21	24°♑14'47	17°50'33
	9643 Feb 01 21:12	0°♒	
morning set	9643 Feb 14 00:27	19°♒42'10	
desc. node	9643 Feb 20 09:11	0°♓25'01	
	9643 Feb 20 03:11	0°♓	
superior conj	9643 Feb 27 03:28	11°♓30'38	-0°48'29
minimum elong	9643 Feb 26 22:07	11°♓08'57	0°47'35
max. Earth dist.	9643 Mar 04 08:34	19°♓50'41	1.44911 AU
	9643 Mar 10 20:14	0°♈	
evening rise	9643 Mar 14 22:34	6°♈19'05	
	9643 Mar 30 17:54	0°♉	
evening max el	9643 Apr 11 15:00	15°♉18'38	20°18'40
asc. node	9643 Apr 15 05:05	18°♉22'06	
retrograde	9643 Apr 19 12:22	19°♉53'26	
evening set	9643 Apr 23 11:00	18°♉23'40	
inferior conj	9643 Apr 28 18:28	12°♉18'48	3°12'41
minimum elong	9643 Apr 28 17:19	12°♉22'42	3°12'21
min. Earth dist.	9643 Apr 29 12:49	11°♉16'08	0.67827 AU
morning rise	9643 May 03 23:23	6°♉01'11	
direct	9643 May 09 15:00	3°♉30'13	
desc. node	9643 May 19 09:27	8°♉44'41	
morning max el	9643 May 21 00:57	10°♉20'36	24°29'34
	9643 Jun 05 15:12	0°♊	
	9643 Jun 24 15:18	0°♋	
morning set	9643 Jun 25 19:45	2°♋03'31	
max. Earth dist.	9643 Jun 29 10:59	8°♋31'36	1.37596 AU
superior conj	9643 Jul 06 09:23	21°♋30'43	-0°54'10
minimum elong	9643 Jul 06 12:52	21°♋47'32	0°53'54
	9643 Jul 10 17:15	0°♌	
asc. node	9643 Jul 12 04:05	2°♌53'18	
evening rise	9643 Jul 15 00:43	8°♌35'34	
	9643 Jul 26 22:57	0°♍	
evening max el	9643 Jul 31 16:51	5°♍48'34	19°14'26
retrograde	9643 Aug 09 21:14	10°♍21'57	
evening set	9643 Aug 11 17:44	10°♍11'34	
desc. node	9643 Aug 15 08:25	8°♍58'00	
inferior conj	9643 Aug 20 06:46	6°♍01'25	-1°31'32
minimum elong	9643 Aug 20 02:43	6°♍08'10	1°30'08
min. Earth dist.	9643 Aug 22 23:46	4°♍13'30	0.55950 AU
morning rise	9643 Aug 28 08:50	1°♍20'42	
direct	9643 Sep 02 12:31	0°♍19'40	
morning max el	9643 Sep 16 15:37	7°♍29'48	25°31'11
	9643 Oct 03 05:31	0°♎	
asc. node	9643 Oct 08 04:08	9°♎05'53	
morning set	9643 Oct 13 19:00	20°♎35'55	
	9643 Oct 18 02:36	0°♏	
superior conj	9643 Oct 20 15:13	5°♏34'43	1°35'55
minimum elong	9643 Oct 20 13:55	5°♏27'35	1°36'01
max. Earth dist.	9643 Oct 21 21:47	8°♏22'57	1.32084 AU
evening rise	9643 Oct 27 17:21	20°♏50'38	
	9643 Nov 01 06:56	0°♐	
desc. node	9643 Nov 11 06:40	17°♐40'22	

	9643 Nov 19 16:14	0°♑	
evening max el	9643 Nov 29 03:17	10°♑50'26	27°26'37
retrograde	9643 Dec 12 23:09	18°♑07'01	
evening set	9643 Dec 20 00:32	15°♑45'07	
min. Earth dist.	9643 Dec 23 17:15	12°♑48'57	0.62205 AU
inferior conj	9643 Dec 26 15:42	10°♑04'58	-2°45'18
minimum elong	9643 Dec 26 21:08	9°♑52'19	2°42'53
morning rise	9644 Jan 02 20:05	5°♑00'24	
asc. node	9644 Jan 04 03:43	4°♑41'51	
direct	9644 Jan 05 01:57	4°♑37'59	
morning max el	9644 Jan 11 21:23	8°♑05'49	17°48'49
	9644 Jan 26 05:27	0°♒	
morning set	9644 Jan 27 17:19	2°♒39'37	
desc. node	9644 Feb 07 06:03	21°♒05'20	
superior conj	9644 Feb 07 23:57	22°♒21'14	-0°05'36
minimum elong	9644 Feb 07 23:26	22°♒19'03	0°05'17
behind sun begin	9644 Feb 07 15:03	21°♒43'34	
behind sun end	9644 Feb 08 07:49	22°♒54'28	
	9644 Feb 12 14:01	0°♓	
max. Earth dist.	9644 Feb 15 00:34	3°♓58'40	1.43601 AU
evening rise	9644 Feb 22 12:38	15°♓52'05	
	9644 Mar 02 19:49	0°♈	
evening max el	9644 Mar 24 12:25	29°♈00'18	21°29'01
	9644 Mar 25 12:48	0°♉	
asc. node	9644 Apr 01 02:13	4°♉07'11	
retrograde	9644 Apr 02 10:41	4°♉16'18	
evening set	9644 Apr 06 19:20	2°♉31'17	
	9644 Apr 09 06:39	30°℞♈	
inferior conj	9644 Apr 12 02:22	26°♈15'16	2°54'27
minimum elong	9644 Apr 12 00:30	26°♈21'45	2°53'58
min. Earth dist.	9644 Apr 12 07:33	25°♈57'10	0.68410 AU
morning rise	9644 Apr 17 05:27	20°♈01'28	
direct	9644 Apr 22 07:41	17°♈48'18	
morning max el	9644 May 02 10:56	23°♈49'07	22°59'40
desc. node	9644 May 05 06:22	26°♈50'26	
	9644 May 07 22:25	0°♉	
	9644 May 29 00:44	0°♊	
morning set	9644 Jun 05 22:31	12°♊43'48	
max. Earth dist.	9644 Jun 10 07:21	20°♊06'34	1.39868 AU
	9644 Jun 15 22:11	0°♋	
superior conj	9644 Jun 18 01:12	3°♋51'49	-1°26'08
minimum elong	9644 Jun 18 06:43	4°♋17'08	1°25'45
evening rise	9644 Jun 27 18:07	22°♋10'06	
asc. node	9644 Jun 28 01:03	22°♋43'10	
	9644 Jul 01 21:32	0°♌	
evening max el	9644 Jul 13 19:36	18°♌03'11	18°31'36
retrograde	9644 Jul 21 14:41	21°♌56'48	
evening set	9644 Jul 23 16:37	21°♌41'01	
inferior conj	9644 Jul 31 10:21	17°♌11'47	0°14'33
minimum elong	9644 Jul 31 10:53	17°♌10'45	0°14'05
transit middle	9644 Jul 31 10:53	17°♌10'45	0°14'05
transit begin	9644 Jul 31 09:08	17°♌14'09	
transit end	9644 Jul 31 12:38	17°♌07'20	
desc. node	9644 Aug 01 05:35	16°♌34'07	
min. Earth dist.	9644 Aug 03 17:54	14°♌37'54	0.57755 AU
morning rise	9644 Aug 08 01:36	11°♌54'10	
direct	9644 Aug 13 23:51	10°♌24'46	
morning max el	9644 Aug 28 08:26	18°♌01'34	26°54'05
	9644 Sep 07 08:29	0°♍	
asc. node	9644 Sep 24 01:01	28°♍40'55	
	9644 Sep 24 16:33	0°♎	
morning set	9644 Sep 27 04:36	5°♎13'05	
superior conj	9644 Oct 04 02:54	20°♎23'28	1°25'53
minimum elong	9644 Oct 04 00:55	20°♎12'28	1°25'45

max. Earth dist.	9644 Oct 04	06:38	20°♎44'13	1.31595 AU
	9644 Oct 08	11:20	0°♏	
evening rise	9644 Oct 10	22:35	5°♏18'32	
	9644 Oct 23	22:21	0°♐	
desc. node	9644 Oct 28	03:48	6°♐41'47	
evening max el	9644 Nov 10	07:27	22°♐58'28	26°54'00
	9644 Nov 22	11:11	0°♑	
retrograde	9644 Nov 24	05:37	0°♑07'53	
	9644 Nov 25	23:35	30°℞♐	
evening set	9644 Dec 01	02:12	28°♐07'10	
min. Earth dist.	9644 Dec 04	21:55	25°♐28'30	0.60120 AU
inferior conj	9644 Dec 08	01:59	22°♐53'14	-3°57'54
minimum elong	9644 Dec 08	09:24	22°♐38'03	3°55'16
morning rise	9644 Dec 15	19:09	18°♐09'04	
direct	9644 Dec 17	22:55	17°♐51'21	
asc. node	9644 Dec 21	00:46	18°♐29'09	
morning max el	9644 Dec 25	10:44	21°♐34'45	18°06'00
	9644 Dec 31	21:06	0°♑	
morning set	9645 Jan 10	02:26	16°♑22'26	
	9645 Jan 17	10:59	0°♒	
superior conj	9645 Jan 19	21:00	4°♒21'21	0°31'52
minimum elong	9645 Jan 19	23:23	4°♒31'59	0°31'48
desc. node	9645 Jan 24	02:58	11°♒48'42	
max. Earth dist.	9645 Jan 27	12:02	17°♒33'16	1.41779 AU
evening rise	9645 Feb 01	17:43	26°♒09'07	
	9645 Feb 04	03:39	0°♓	
	9645 Feb 24	14:42	0°♈	
evening max el	9645 Mar 07	05:24	12°♈44'40	22°47'12
retrograde	9645 Mar 17	06:58	18°♈42'07	
asc. node	9645 Mar 18	23:23	18°♈28'10	
evening set	9645 Mar 22	02:48	16°♈42'17	
inferior conj	9645 Mar 27	11:20	10°♈18'09	2°26'29
minimum elong	9645 Mar 27	09:08	10°♈25'47	2°25'52
min. Earth dist.	9645 Mar 27	04:14	10°♈42'49	0.68553 AU
morning rise	9645 Apr 01	15:20	4°♈09'37	
direct	9645 Apr 06	03:55	2°♈17'43	
morning max el	9645 Apr 15	00:39	7°♈26'32	21°33'17
desc. node	9645 Apr 22	03:16	15°♈45'19	
	9645 May 02	09:12	0°♉	
morning set	9645 May 16	22:21	22°♉10'18	
	9645 May 21	19:02	0°♊	
max. Earth dist.	9645 May 23	08:27	2°♊33'39	1.42045 AU
superior conj	9645 May 30	21:22	15°♊18'49	-1°53'24
minimum elong	9645 May 31	03:28	15°♊45'16	1°53'13
	9645 Jun 08	03:30	0°♋	
evening rise	9645 Jun 10	23:07	5°♋08'02	
asc. node	9645 Jun 14	22:04	12°♋19'08	
	9645 Jun 26	09:33	0°♌	
evening max el	9645 Jun 27	05:31	0°♌51'41	18°08'59
retrograde	9645 Jul 04	02:33	4°♌20'56	
evening set	9645 Jul 06	12:13	3°♌55'52	
	9645 Jul 12	11:09	30°℞♋	
inferior conj	9645 Jul 13	11:16	29°♋05'54	1°36'15
minimum elong	9645 Jul 13	13:55	28°♋59'52	1°35'04
min. Earth dist.	9645 Jul 16	18:54	26°♋06'29	0.59950 AU
desc. node	9645 Jul 19	02:43	24°♋15'20	
morning rise	9645 Jul 20	12:40	23°♋18'46	
direct	9645 Jul 27	00:07	21°♋19'09	
morning max el	9645 Aug 10	08:07	29°♋12'34	27°44'07
	9645 Aug 11	02:59	0°♌	
	9645 Sep 01	06:58	0°♍	
asc. node	9645 Sep 10	21:55	18°♍31'00	
morning set	9645 Sep 11	10:36	19°♍37'01	
	9645 Sep 16	06:36	0°♎	
max. Earth dist.	9645 Sep 17	16:10	3°♎05'02	1.31580 AU
superior conj	9645 Sep 18	14:22	5°♎07'58	1°10'34
minimum elong	9645 Sep 18	12:07	4°♎55'31	1°10'13
evening rise	9645 Sep 25	07:52	19°♎55'34	
	9645 Sep 30	04:41	0°♏	
desc. node	9645 Oct 15	00:58	24°♏52'27	
	9645 Oct 19	02:57	0°♐	
evening max el	9645 Oct 23	03:59	4°♐15'53	25°48'18
retrograde	9645 Nov 06	01:48	11°♐17'38	
evening set	9645 Nov 12	07:03	9°♐47'07	
min. Earth dist.	9645 Nov 16	16:34	7°♐11'09	0.58050 AU
inferior conj	9645 Nov 19	17:57	5°♐01'11	-5°01'06
minimum elong	9645 Nov 20	01:08	4°♐48'25	4°59'22
morning rise	9645 Nov 27	21:33	0°♐39'29	
direct	9645 Nov 30	04:02	0°♐23'07	
asc. node	9645 Dec 07	21:50	3°♐47'26	
morning max el	9645 Dec 08	16:40	4°♐30'55	18°43'47
morning set	9645 Dec 24	22:42	0°♑35'24	
	9645 Dec 24	15:26	0°♑	
superior conj	9646 Jan 02	14:20	17°♑18'26	1°01'08
minimum elong	9646 Jan 02	17:33	17°♑33'36	1°01'03
	9646 Jan 09	13:21	0°♒	
max. Earth dist.	9646 Jan 09	19:36	0°♒27'31	1.39656 AU
desc. node	9646 Jan 10	23:53	2°♒31'06	
evening rise	9646 Jan 13	19:54	7°♒22'17	
	9646 Jan 28	04:09	0°♓	
evening max el	9646 Feb 17	19:40	26°♓31'48	24°07'28
	9646 Feb 21	17:39	0°♈	
retrograde	9646 Feb 28	23:55	3°♈05'31	
asc. node	9646 Mar 05	20:35	1°♈14'53	
evening set	9646 Mar 06	07:51	0°♈51'56	
	9646 Mar 07	06:20	30°℞♓	
min. Earth dist.	9646 Mar 11	00:32	25°♓27'26	0.68274 AU
inferior conj	9646 Mar 11	19:30	24°♓23'19	1°49'23
minimum elong	9646 Mar 11	17:24	24°♓30'24	1°48'45
morning rise	9646 Mar 17	03:00	18°♓21'31	
direct	9646 Mar 21	02:24	16°♓51'43	
morning max el	9646 Mar 28	21:17	21°♓15'40	20°17'04
	9646 Apr 05	04:49	0°♈	
desc. node	9646 Apr 09	00:08	5°♈15'24	
	9646 Apr 25	14:01	0°♉	
morning set	9646 Apr 26	00:43	0°♉41'15	
max. Earth dist.	9646 May 05	17:10	15°♉54'58	1.43848 AU
superior conj	9646 May 11	17:48	25°♉42'39	-2°10'15
minimum elong	9646 May 11	20:58	25°♉55'42	2°10'26
	9646 May 14	07:50	0°♊	
evening rise	9646 May 24	11:01	17°♊18'13	
	9646 May 31	20:08	0°♋	
asc. node	9646 Jun 01	19:07	1°♋35'22	
evening max el	9646 Jun 10	18:46	14°♋03'52	18°05'43
retrograde	9646 Jun 17	05:08	17°♋24'22	
evening set	9646 Jun 19	22:29	16°♋47'21	
inferior conj	9646 Jun 26	06:18	11°♋37'56	2°31'34
minimum elong	9646 Jun 26	09:03	11°♋30'46	2°30'33
min. Earth dist.	9646 Jun 29	04:34	8°♋36'30	0.62200 AU
morning rise	9646 Jul 02	17:38	5°♋31'34	
desc. node	9646 Jul 05	23:49	3°♋44'36	
direct	9646 Jul 09	10:53	3°♋06'38	
morning max el	9646 Jul 23	14:05	11°♋08'29	27°55'58
	9646 Aug 07	09:44	0°♌	
	9646 Aug 24	14:50	0°♍	
morning set	9646 Aug 26	11:01	3°♍42'16	
asc. node	9646 Aug 28	18:50	8°♍30'57	
max. Earth dist.	9646 Aug 31	22:31	15°♍14'26	1.32044 AU
superior conj	9646 Sep 02	23:47	19°♍42'43	0°50'16

minimum elong	9646 Sep 02 21:47	19°♍31'42	0°49'48
	9646 Sep 07 16:16	0°♎	
evening rise	9646 Sep 09 19:10	4°♎35'46	
	9646 Sep 23 04:32	0°♏	
desc. node	9646 Oct 01 22:09	11°♏52'43	
evening max el	9646 Oct 04 16:59	14°♏46'55	24°17'40
retrograde	9646 Oct 18 10:06	21°♏39'23	
evening set	9646 Oct 23 11:29	20°♏43'00	
min. Earth dist.	9646 Oct 29 03:45	17°♏51'06	0.56247 AU
inferior conj	9646 Oct 31 13:34	16°♏21'30	-5°38'31
minimum elong	9646 Oct 31 16:09	16°♏17'28	5°38'08
morning rise	9646 Nov 08 22:56	12°♏21'20	
direct	9646 Nov 11 14:00	12°♏03'07	
morning max el	9646 Nov 21 11:35	16°♏44'31	19°43'50
asc. node	9646 Nov 24 18:51	20°♏22'50	
	9646 Dec 01 04:15	0°♐	
morning set	9646 Dec 09 02:28	15°♐07'59	
	9646 Dec 16 11:08	0°♑	
superior conj	9646 Dec 16 23:03	0°♑59'02	1°21'51
minimum elong	9646 Dec 17 01:48	1°♑12'38	1°21'55
max. Earth dist.	9646 Dec 23 01:50	12°♑44'04	1.37475 AU
evening rise	9646 Dec 26 19:12	19°♑30'40	
desc. node	9646 Dec 28 20:52	23°♑09'07	
	9647 Jan 01 21:41	0°♒	
	9647 Jan 22 07:26	0°♓	
evening max el	9647 Jan 31 08:53	10°♓20'23	25°23'01
retrograde	9647 Feb 12 12:32	17°♓21'22	
evening set	9647 Feb 18 08:55	14°♓56'13	
asc. node	9647 Feb 20 17:45	12°♓34'25	
min. Earth dist.	9647 Feb 22 18:17	10°♓06'35	0.67590 AU
inferior conj	9647 Feb 24 00:57	8°♓27'37	1°03'28
minimum elong	9647 Feb 23 23:29	8°♓32'21	1°03'04
morning rise	9647 Mar 01 14:28	2°♓34'03	
direct	9647 Mar 05 01:40	1°♓25'01	
morning max el	9647 Mar 12 01:53	5°♓16'14	19°14'56
greatest brilliancy	9647 Mar 25 01:36	22°♓28'11	-0.7m
desc. node	9647 Mar 26 20:58	25°♓11'15	
	9647 Mar 30 00:54	0°♈	
morning set	9647 Apr 05 01:16	9°♈15'02	
	9647 Apr 18 08:59	0°♉	
max. Earth dist.	9647 Apr 18 08:00	29°♈56'09	1.45068 AU
superior conj	9647 Apr 21 14:31	5°♉06'25	-2°10'14
minimum elong	9647 Apr 21 10:50	4°♉51'48	2°10'20
evening rise	9647 May 06 01:12	28°♉31'15	
	9647 May 06 22:41	0°♊	
asc. node	9647 May 19 16:12	20°♊24'51	
evening max el	9647 May 25 08:02	27°♊30'59	18°21'02
	9647 May 28 11:16	0°♋	
retrograde	9647 May 31 17:45	0°♋57'00	
evening set	9647 Jun 03 18:39	0°♋06'21	
	9647 Jun 03 23:09	30°℞♊	
inferior conj	9647 Jun 09 15:15	24°♊39'24	3°04'09
minimum elong	9647 Jun 09 17:05	24°♊34'06	3°03'32
min. Earth dist.	9647 Jun 11 23:42	21°♊56'24	0.64264 AU
morning rise	9647 Jun 15 14:21	18°♊23'00	
direct	9647 Jun 22 06:25	15°♊42'09	
desc. node	9647 Jun 22 20:52	15°♊43'21	
morning max el	9647 Jul 05 23:48	23°♊42'43	27°31'04
	9647 Jul 11 14:37	0°♋	
	9647 Jul 31 18:14	0°♌	
morning set	9647 Aug 10 03:15	17°♌21'18	
max. Earth dist.	9647 Aug 14 21:38	27°♌01'12	1.33001 AU
asc. node	9647 Aug 15 15:42	28°♌35'38	
	9647 Aug 16 07:45	0°♍	

superior conj	9647 Aug 18 05:08	4°♍01'10	0°25'22
minimum elong	9647 Aug 18 03:55	3°♍54'41	0°24'57
evening rise	9647 Aug 25 06:33	19°♍12'39	
	9647 Aug 30 12:40	0°♎	
evening max el	9647 Sep 16 04:09	24°♎55'40	22°37'33
desc. node	9647 Sep 18 19:20	27°♎15'29	
	9647 Sep 23 02:55	0°♏	
retrograde	9647 Sep 29 06:24	1°♏27'27	
evening set	9647 Oct 02 19:38	0°♏59'45	
	9647 Oct 05 17:24	30°℞♎	
min. Earth dist.	9647 Oct 10 11:41	27°♎34'03	0.55019 AU
inferior conj	9647 Oct 11 14:50	26°♎55'28	-5°29'51
minimum elong	9647 Oct 11 09:31	27°♎03'02	5°29'06
morning rise	9647 Oct 20 01:13	23°♎07'37	
direct	9647 Oct 23 05:51	22°♎44'21	
morning max el	9647 Nov 03 17:13	28°♎08'04	21°06'17
	9647 Nov 05 13:34	0°♏	
asc. node	9647 Nov 11 15:48	7°♏58'42	
morning set	9647 Nov 23 10:55	29°♏51'21	
	9647 Nov 23 12:35	0°♐	
superior conj	9647 Nov 30 18:46	15°♐09'54	1°34'35
minimum elong	9647 Nov 30 20:25	15°♐18'27	1°34'49
max. Earth dist.	9647 Dec 05 11:15	24°♐38'15	1.35466 AU
	9647 Dec 08 05:38	0°♑	
evening rise	9647 Dec 09 12:28	2°♑25'46	
desc. node	9647 Dec 15 17:52	13°♑37'58	
	9647 Dec 25 21:33	0°♒	
evening max el	9648 Jan 13 22:08	24°♒05'58	26°26'49
	9648 Jan 21 16:22	0°♓	
retrograde	9648 Jan 26 20:08	1°♓23'04	
	9648 Jan 31 12:58	30°℞♒	
evening set	9648 Feb 02 04:14	28°♒50'17	
min. Earth dist.	9648 Feb 06 07:20	24°♒35'07	0.66515 AU
asc. node	9648 Feb 07 14:54	22°♒59'56	
inferior conj	9648 Feb 08 01:44	22°♒27'04	0°08'56
minimum elong	9648 Feb 08 01:29	22°♒27'49	0°09'04
transit middle	9648 Feb 08 01:29	22°♒27'49	0°09'04
transit begin	9648 Feb 07 23:05	22°♒35'04	
transit end	9648 Feb 08 03:52	22°♒20'35	
morning rise	9648 Feb 13 23:38	16°♒43'40	
direct	9648 Feb 17 00:04	15°♒52'28	
morning max el	9648 Feb 23 13:20	19°♒23'38	18°28'49
	9648 Mar 02 19:18	0°♓	
desc. node	9648 Mar 12 17:49	15°♓26'02	
morning set	9648 Mar 14 22:29	18°♓54'40	
	9648 Mar 21 22:57	0°♈	
superior conj	9648 Mar 30 21:02	13°♈59'07	-1°49'57
minimum elong	9648 Mar 30 11:50	13°♈23'07	1°49'16
max. Earth dist.	9648 Mar 31 02:25	14°♈20'09	1.45586 AU
	9648 Apr 10 02:16	0°♉	
evening rise	9648 Apr 15 15:33	8°♉45'48	
greatest brilliancy	9648 Apr 24 22:35	23°♉25'32	-0.8m
	9648 Apr 29 05:48	0°♊	
asc. node	9648 May 05 13:18	8°♊38'59	
evening max el	9648 May 07 18:44	11°♊06'58	18°54'08
retrograde	9648 May 14 12:29	14°♊51'10	
evening set	9648 May 17 21:14	13°♊45'48	
inferior conj	9648 May 23 10:21	8°♊03'03	3°18'29
minimum elong	9648 May 23 10:55	8°♊01'13	3°18'08
min. Earth dist.	9648 May 25 03:40	5°♊53'05	0.65987 AU
morning rise	9648 May 28 24:00	1°♊43'15	
	9648 May 31 10:27	30°℞♉	
direct	9648 Jun 04 09:26	28°♉57'59	
desc. node	9648 Jun 08 17:52	0°♊01'34	
	9648 Jun 08 16:30	0°♊	

morning max el	9648 Jun 17 10:29	6°♊43'37	26°35'49	
	9648 Jul 05 09:39	0°♋		
morning set	9648 Jul 23 08:12	0°♌26'01		
	9648 Jul 23 02:41	0°♌		
max. Earth dist.	9648 Jul 27 10:28	8°♌21'26	1.34454 AU	
superior conj	9648 Aug 01 04:08	17°♌57'35	-0°03'31	
minimum elong	9648 Aug 01 04:20	17°♌58'39	0°03'44	
behind sun begin	9648 Jul 31 22:38	17°♌29'13		
behind sun end	9648 Aug 01 10:01	18°♌28'08		
asc. node	9648 Aug 01 12:36	18°♌41'31		
	9648 Aug 06 21:56	0°♍		
evening rise	9648 Aug 08 16:05	3°♍41'01		
	9648 Aug 23 09:14	0°♎		
evening max el	9648 Aug 27 23:02	5°♎20'22	21°04'26	
desc. node	9648 Sep 04 16:29	10°♎30'16		
retrograde	9648 Sep 08 18:39	11°♎11'52		
evening set	9648 Sep 11 02:47	10°♎59'01		
inferior conj	9648 Sep 20 07:10	7°♎02'58	-4°24'33	
minimum elong	9648 Sep 19 21:24	7°♎16'45	4°21'56	
min. Earth dist.	9648 Sep 20 20:00	6°♎44'49	0.54644 AU	
morning rise	9648 Sep 28 16:24	3°♎08'54		
direct	9648 Oct 02 13:58	2°♎36'13		
morning max el	9648 Oct 15 10:58	8°♎45'39	22°46'33	
asc. node	9648 Oct 28 12:44	26°♎21'13		
	9648 Oct 30 13:41	0°♏		
morning set	9648 Nov 06 21:56	14°♏39'26		
superior conj	9648 Nov 13 22:04	29°♏40'59	1°40'07	
minimum elong	9648 Nov 13 22:29	29°♏43'08	1°40'24	
	9648 Nov 14 01:38	0°♐		
max. Earth dist.	9648 Nov 17 04:05	6°♐32'17	1.33807 AU	
evening rise	9648 Nov 21 19:58	15°♐58'07		
	9648 Nov 29 09:03	0°♑		
desc. node	9648 Dec 01 14:54	3°♑52'31		
	9648 Dec 19 11:06	0°♒		
evening max el	9648 Dec 26 11:20	7°♒40'26	27°11'32	
retrograde	9649 Jan 08 21:46	15°♒02'35		
evening set	9649 Jan 15 15:44	12°♒27'58		
min. Earth dist.	9649 Jan 19 13:31	8°♒46'08	0.65081 AU	
inferior conj	9649 Jan 21 19:31	6°♒16'28	-0°53'46	
minimum elong	9649 Jan 21 21:07	6°♒12'01	0°52'47	
asc. node	9649 Jan 24 12:01	3°♒26'36		
morning rise	9649 Jan 28 03:59	0°♒45'32		
direct	9649 Jan 30 19:27	0°♒08'28		
morning max el	9649 Feb 06 05:15	3°♒30'47	17°59'30	
morning set	9649 Feb 24 01:09	0°♓02'12		
	9649 Feb 24 00:37	0°♓		
desc. node	9649 Feb 27 14:40	5°♓54'04		
superior conj	9649 Mar 10 07:19	23°♓09'04	-1°13'16	
minimum elong	9649 Mar 09 23:14	22°♓36'57	1°12'11	
max. Earth dist.	9649 Mar 13 21:57	28°♓50'54	1.45367 AU	
	9649 Mar 14 15:34	0°♈		
evening rise	9649 Mar 26 10:11	18°♈16'52		
	9649 Apr 03 01:40	0°♉		
greatest brilliancy	9649 Apr 09 08:52	9°♉28'11	-0.7m	
evening max el	9649 Apr 21 00:53	24°♉46'36	19°43'42	
asc. node	9649 Apr 22 10:25	26°♉06'07		
retrograde	9649 Apr 28 10:16	29°♉00'05		
evening set	9649 May 02 03:35	27°♉39'21		
inferior conj	9649 May 07 12:21	21°♉42'15	3°18'18	
minimum elong	9649 May 07 11:46	21°♉44'12	3°18'01	
min. Earth dist.	9649 May 08 14:52	20°♉13'50	0.67289 AU	
morning rise	9649 May 12 19:36	15°♉23'13		
direct	9649 May 18 18:33	12°♉44'21		
desc. node	9649 May 26 14:51	16°♉09'19		
morning max el	9649 May 30 20:16	19°♉58'47	25°19'14	
	9649 Jun 08 09:44	0°♊		
	9649 Jun 28 13:04	0°♋		
morning set	9649 Jul 05 21:39	12°♋44'33		
max. Earth dist.	9649 Jul 09 12:50	19°♋24'41	1.36355 AU	
	9649 Jul 15 00:57	0°♌		
superior conj	9649 Jul 15 17:55	1°♌23'57	-0°35'16	
minimum elong	9649 Jul 15 20:06	1°♌34'49	0°35'10	
asc. node	9649 Jul 19 09:31	8°♌44'12		
evening rise	9649 Jul 23 21:33	17°♌54'10		
	9649 Jul 30 01:45	0°♍		
evening max el	9649 Aug 10 07:06	16°♍25'38	19°48'39	
retrograde	9649 Aug 20 10:01	21°♍26'18		
evening set	9649 Aug 22 06:51	21°♍16'50		
desc. node	9649 Aug 22 13:39	21°♍13'47		
inferior conj	9649 Aug 31 04:57	17°♍15'22	-2°38'18	
minimum elong	9649 Aug 30 21:49	17°♍26'19	2°35'47	
min. Earth dist.	9649 Sep 02 06:35	15°♍59'13	0.55223 AU	
morning rise	9649 Sep 08 10:58	12°♍55'44		
direct	9649 Sep 13 03:40	12°♍07'13		
morning max el	9649 Sep 26 22:47	18°♍57'16	24°33'21	
	9649 Oct 06 04:23	0°♎		
asc. node	9649 Oct 15 09:38	15°♎19'09		
morning set	9649 Oct 22 09:43	29°♎27'30		
	9649 Oct 22 15:48	0°♏		
superior conj	9649 Oct 29 06:19	14°♏24'25	1°39'10	
minimum elong	9649 Oct 29 05:35	14°♏20'21	1°39'22	
max. Earth dist.	9649 Oct 31 05:09	18°♏39'12	1.32582 AU	
evening rise	9649 Nov 05 14:13	29°♏58'41		
	9649 Nov 05 14:28	0°♐		
desc. node	9649 Nov 18 11:58	23°♐46'22		
	9649 Nov 22 10:02	0°♑		
evening max el	9649 Dec 08 23:09	20°♑52'20	27°30'07	
retrograde	9649 Dec 22 16:36	28°♑11'27		
evening set	9649 Dec 29 16:52	25°♑42'36		
min. Earth dist.	9650 Jan 02 10:45	22°♑31'19	0.63330 AU	
inferior conj	9650 Jan 05 03:40	19°♑49'25	-2°03'15	
minimum elong	9650 Jan 05 07:38	19°♑39'30	2°01'18	
asc. node	9650 Jan 11 09:07	14°♑50'09		
morning rise	9650 Jan 12 00:28	14°♑34'03		
direct	9650 Jan 14 09:10	14°♑07'14		
morning max el	9650 Jan 20 22:47	17°♑30'22	17°47'32	
	9650 Jan 29 23:11	0°♒		
morning set	9650 Feb 06 06:04	12°♒26'25		
desc. node	9650 Feb 14 11:32	26°♒31'20		
	9650 Feb 16 13:26	0°♓		
superior conj	9650 Feb 18 13:23	3°♓18'19	-0°29'56	
minimum elong	9650 Feb 18 10:13	3°♓05'18	0°29'17	
max. Earth dist.	9650 Feb 24 16:26	13°♓13'57	1.44434 AU	
evening rise	9650 Mar 05 21:37	27°♓39'18		
	9650 Mar 07 10:20	0°♈		
	9650 Mar 27 23:51	0°♉		
evening max el	9650 Apr 04 01:36	8°♉28'10	20°47'19	
asc. node	9650 Apr 09 07:33	12°♉33'06		
retrograde	9650 Apr 12 08:52	13°♉19'26		
evening set	9650 Apr 16 11:43	11°♉43'06		
inferior conj	9650 Apr 21 18:45	5°♉33'23	3°06'10	
minimum elong	9650 Apr 21 17:15	5°♉38'32	3°05'46	
min. Earth dist.	9650 Apr 22 07:23	4°♉49'45	0.68140 AU	
	9650 Apr 26 04:49	30°℞♈		
morning rise	9650 Apr 26 22:34	29°♈17'25		
direct	9650 May 02 08:42	26°♈53'22		
	9650 May 09 11:51	0°♉		
morning max el	9650 May 13 05:32	3°♉22'43	23°51'21	

desc. node	9650 May 13 11:49	3°♉38'42	
	9650 Jun 02 13:42	0°♊	
morning set	9650 Jun 17 14:33	24°♊03'58	
	9650 Jun 21 00:34	0°♋	
max. Earth dist.	9650 Jun 21 09:47	0°♋40'42	1.38562 AU
superior conj	9650 Jun 28 18:58	14°♋11'40	-1°08'01
minimum elong	9650 Jun 28 23:23	14°♋32'35	1°07'40
asc. node	9650 Jul 06 06:28	28°♋39'53	
	9650 Jul 06 22:49	0°♌	
evening rise	9650 Jul 07 20:17	1°♌45'13	
evening max el	9650 Jul 24 03:53	28°♌16'07	18°53'39
	9650 Jul 26 03:05	0°♍	
retrograde	9650 Aug 01 16:39	2°♍30'47	
evening set	9650 Aug 03 15:04	2°♍18'32	
	9650 Aug 08 21:26	30°℞♌	
desc. node	9650 Aug 09 10:51	29°♌38'40	
inferior conj	9650 Aug 11 20:05	28°♌00'24	-0°44'07
minimum elong	9650 Aug 11 18:13	28°♌03'42	0°43'36
min. Earth dist.	9650 Aug 14 21:08	25°♌51'16	0.56649 AU
morning rise	9650 Aug 19 18:08	23°♌03'59	
direct	9650 Aug 25 06:11	21°♌51'44	
morning max el	9650 Sep 08 12:19	29°♌13'34	26°09'57
	9650 Sep 09 07:15	0°♍	
	9650 Sep 29 20:04	0°♎	
asc. node	9650 Oct 02 06:32	4°♎42'54	
morning set	9650 Oct 06 20:36	14°♎10'10	
superior conj	9650 Oct 13 17:17	29°♎12'50	1°32'19
minimum elong	9650 Oct 13 15:39	29°♎03'48	1°32'20
	9650 Oct 14 01:48	0°♏	
max. Earth dist.	9650 Oct 14 12:18	0°♏58'11	1.31820 AU
evening rise	9650 Oct 20 16:10	14°♏18'35	
	9650 Oct 28 15:18	0°♐	
desc. node	9650 Nov 05 09:04	13°♐10'18	
	9650 Nov 17 22:01	0°♑	
evening max el	9650 Nov 21 06:53	3°♑26'54	27°16'58
retrograde	9650 Dec 05 03:36	10°♑39'41	
evening set	9650 Dec 12 04:15	8°♑25'35	
min. Earth dist.	9650 Dec 15 21:23	5°♑38'29	0.61336 AU
inferior conj	9650 Dec 18 22:56	2°♑56'30	-3°16'26
minimum elong	9650 Dec 19 05:20	2°♑42'21	3°13'49
	9650 Dec 22 13:07	30°℞♐	
morning rise	9650 Dec 26 08:52	28°♐00'08	
direct	9650 Dec 28 13:30	27°♐40'01	
asc. node	9650 Dec 29 06:13	27°♐42'06	
	9651 Jan 03 06:05	0°♑	
morning max el	9651 Jan 04 14:41	1°♑13'03	17°53'44
morning set	9651 Jan 20 06:35	25°♑45'26	
	9651 Jan 22 14:37	0°♒	
superior conj	9651 Jan 30 20:40	14°♒39'33	0°11'12
minimum elong	9651 Jan 30 21:40	14°♒43'53	0°11'19
behind sun begin	9651 Jan 30 15:44	14°♒18'09	
behind sun end	9651 Jan 31 03:37	15°♒09'33	
desc. node	9651 Feb 01 08:24	17°♒13'17	
max. Earth dist.	9651 Feb 07 07:12	27°♒11'21	1.42884 AU
	9651 Feb 09 00:34	0°♓	
evening rise	9651 Feb 13 16:50	7°♓28'13	
	9651 Feb 28 15:46	0°♈	
evening max el	9651 Mar 17 20:58	22°♈10'45	22°01'33
retrograde	9651 Mar 27 06:30	27°♈44'23	
asc. node	9651 Mar 27 04:44	27°♈44'21	
evening set	9651 Mar 31 19:54	25°♈52'42	
inferior conj	9651 Apr 06 03:21	19°♈32'47	2°43'43
minimum elong	9651 Apr 06 01:18	19°♈39'56	2°43'10
min. Earth dist.	9651 Apr 06 03:08	19°♈33'31	0.68530 AU
morning rise	9651 Apr 11 06:32	13°♈21'17	
direct	9651 Apr 16 02:54	11°♈17'09	
morning max el	9651 Apr 25 16:50	16°♈55'06	22°22'03
desc. node	9651 Apr 30 08:45	22°♈07'16	
	9651 May 06 11:09	0°♉	
	9651 May 26 15:12	0°♊	
morning set	9651 May 29 06:01	4°♊13'00	
max. Earth dist.	9651 Jun 03 08:09	12°♊38'40	1.40825 AU
superior conj	9651 Jun 11 03:00	26°♊10'59	-1°38'35
minimum elong	9651 Jun 11 09:04	26°♊38'08	1°38'14
	9651 Jun 13 05:46	0°♋	
evening rise	9651 Jun 21 09:00	15°♋05'53	
asc. node	9651 Jun 23 03:28	18°♋24'38	
	9651 Jun 29 14:23	0°♌	
evening max el	9651 Jul 07 10:07	10°♌46'06	18°19'31
retrograde	9651 Jul 14 18:32	14°♌27'50	
evening set	9651 Jul 16 23:35	14°♌08'34	
inferior conj	9651 Jul 24 09:02	9°♌30'11	0°52'32
minimum elong	9651 Jul 24 10:46	9°♌26'34	0°51'37
desc. node	9651 Jul 27 08:01	7°♌02'30	
min. Earth dist.	9651 Jul 27 17:56	6°♌42'43	0.58654 AU
morning rise	9651 Jul 31 18:33	3°♌58'34	
direct	9651 Aug 06 22:59	2°♌16'29	
morning max el	9651 Aug 21 08:16	10°♌01'32	27°20'04
	9651 Sep 05 17:20	0°♍	
asc. node	9651 Sep 19 03:25	24°♍25'15	
morning set	9651 Sep 21 04:56	28°♍42'46	
	9651 Sep 21 19:31	0°♎	
superior conj	9651 Sep 28 05:06	14°♎00'32	1°20'00
minimum elong	9651 Sep 28 02:57	13°♎48'37	1°19'47
max. Earth dist.	9651 Sep 27 22:02	13°♎21'17	1.31527 AU
evening rise	9651 Oct 04 23:23	28°♎51'05	
	9651 Oct 05 12:21	0°♏	
	9651 Oct 21 23:41	0°♐	
desc. node	9651 Oct 23 06:13	1°♐52'23	
evening max el	9651 Nov 03 07:47	15°♐13'05	26°29'44
retrograde	9651 Nov 17 05:53	22°♐19'35	
evening set	9651 Nov 23 21:40	20°♐30'23	
min. Earth dist.	9651 Nov 27 21:20	17°♐55'17	0.59230 AU
inferior conj	9651 Dec 01 01:46	15°♐28'28	-4°26'38
minimum elong	9651 Dec 01 09:30	15°♐13'34	4°24'14
morning rise	9651 Dec 08 23:53	10°♐54'05	
direct	9651 Dec 11 04:11	10°♐37'21	
asc. node	9651 Dec 16 03:17	12°♐09'26	
morning max el	9651 Dec 19 01:23	14°♐29'34	18°19'27
	9651 Dec 29 16:13	0°♑	
morning set	9652 Jan 03 20:55	9°♑42'17	
superior conj	9652 Jan 13 02:59	27°♑05'48	0°45'19
minimum elong	9652 Jan 13 05:56	27°♑19'16	0°45'13
	9652 Jan 14 17:23	0°♒	
desc. node	9652 Jan 19 05:18	7°♒56'33	
max. Earth dist.	9652 Jan 20 16:40	10°♒28'33	1.40900 AU
evening rise	9652 Jan 25 06:29	18°♒07'56	
	9652 Feb 01 17:37	0°♓	
	9652 Feb 23 04:30	0°♈	
evening max el	9652 Feb 28 12:21	5°♈55'20	23°21'25
retrograde	9652 Mar 10 01:38	12°♈09'45	
asc. node	9652 Mar 13 01:57	11°♈25'46	
evening set	9652 Mar 15 02:33	10°♈03'41	
min. Earth dist.	9652 Mar 19 23:56	4°♈19'05	0.68483 AU
inferior conj	9652 Mar 20 12:12	3°♈36'53	2°11'51
minimum elong	9652 Mar 20 09:59	3°♈44'29	2°11'11
	9652 Mar 23 06:20	30°℞♓	
morning rise	9652 Mar 25 17:23	27°♓31'02	

direct	9652 Mar 30 00:08	25°♓48'50	
	9652 Apr 06 17:50	0°♈	
morning max el	9652 Apr 07 09:20	0°♈37'40	20°59'16
desc. node	9652 Apr 16 05:38	11°♈18'26	
	9652 Apr 29 04:52	0°♉	
morning set	9652 May 07 19:14	13°♉11'25	
max. Earth dist.	9652 May 15 12:09	25°♉28'36	1.42867 AU
	9652 May 18 06:21	0°♊	
superior conj	9652 May 22 13:22	7°♊11'15	-2°02'14
minimum elong	9652 May 22 18:46	7°♊34'08	2°02'12
evening rise	9652 Jun 03 07:20	27°♊44'53	
	9652 Jun 04 13:34	0°♋	
asc. node	9652 Jun 09 00:31	7°♋53'01	
evening max el	9652 Jun 19 21:51	23°♋45'30	18°05'16
retrograde	9652 Jun 26 13:14	27°♋09'27	
evening set	9652 Jun 29 02:03	26°♋39'44	
inferior conj	9652 Jul 05 18:09	21°♋41'29	2°02'47
minimum elong	9652 Jul 05 21:02	21°♋34'31	2°01'36
min. Earth dist.	9652 Jul 08 22:43	18°♋38'03	0.60912 AU
morning rise	9652 Jul 12 13:24	15°♋44'36	
desc. node	9652 Jul 13 05:10	15°♋19'51	
direct	9652 Jul 19 04:09	13°♋33'02	
morning max el	9652 Aug 02 10:57	21°♋32'07	27°53'53
	9652 Aug 09 20:06	0°♌	
	9652 Aug 28 18:48	0°♍	
morning set	9652 Sep 04 08:48	12°♍59'13	
asc. node	9652 Sep 05 00:18	14°♍19'49	
max. Earth dist.	9652 Sep 10 06:29	25°♍37'16	1.31712 AU
superior conj	9652 Sep 11 15:54	28°♍41'14	1°02'32
minimum elong	9652 Sep 11 13:41	28°♍29'02	1°02'08
	9652 Sep 12 06:09	0°♎	
evening rise	9652 Sep 18 09:42	13°♎29'30	
	9652 Sep 26 14:36	0°♏	
desc. node	9652 Oct 09 03:23	19°♏35'44	
evening max el	9652 Oct 15 00:34	26°♏08'07	25°12'01
	9652 Oct 19 18:51	0°♐	
retrograde	9652 Oct 28 21:40	3°♐07'27	
evening set	9652 Nov 03 16:20	1°♐51'27	
	9652 Nov 07 05:17	30°℞♏	
min. Earth dist.	9652 Nov 08 12:29	29°♏10'51	0.57225 AU
inferior conj	9652 Nov 11 09:05	27°♏16'13	-5°21'23
minimum elong	9652 Nov 11 14:56	27°♏06'25	5°20'16
morning rise	9652 Nov 19 15:50	23°♏04'17	
direct	9652 Nov 22 01:00	22°♏47'41	
morning max el	9652 Dec 01 03:05	27°♏09'00	19°06'35
asc. node	9652 Dec 02 00:18	28°♏02'14	
	9652 Dec 03 17:51	0°♐	
morning set	9652 Dec 17 20:45	24°♐04'32	
	9652 Dec 20 20:19	0°♑	
superior conj	9652 Dec 26 03:26	10°♑23'13	1°10'56
minimum elong	9652 Dec 26 06:34	10°♑38'17	1°10'54
max. Earth dist.	9653 Jan 01 22:40	23°♑03'37	1.38716 AU
desc. node	9653 Jan 05 02:14	28°♑37'46	
evening rise	9653 Jan 05 17:55	29°♑45'40	
	9653 Jan 05 21:14	0°♒	
	9653 Jan 25 02:14	0°♓	
evening max el	9653 Feb 10 01:57	19°♓43'42	24°40'38
retrograde	9653 Feb 21 17:01	26°♓30'56	
evening set	9653 Feb 27 06:06	24°♓12'14	
asc. node	9653 Feb 27 23:07	23°♓33'50	
min. Earth dist.	9653 Mar 03 19:33	19°♓02'20	0.68027 AU
inferior conj	9653 Mar 04 19:28	17°♓42'47	1°31'01
minimum elong	9653 Mar 04 17:34	17°♓49'06	1°30'26
morning rise	9653 Mar 10 05:12	11°♓44'03	
direct	9653 Mar 13 23:12	10°♓23'22	
morning max el	9653 Mar 21 09:20	14°♓32'14	19°48'41
	9653 Apr 02 09:45	0°♈	
desc. node	9653 Apr 03 02:28	1°♈00'51	
greatest brilliancy	9653 Apr 03 07:38	1°♈19'42	-0.6m
morning set	9653 Apr 16 17:45	21°♈34'53	
	9653 Apr 22 04:07	0°♉	
max. Earth dist.	9653 Apr 27 23:12	9°♉07'19	1.44446 AU
superior conj	9653 May 02 23:20	17°♉08'40	-2°12'38
minimum elong	9653 May 02 23:55	17°♉11'01	2°12'53
	9653 May 10 18:56	0°♊	
evening rise	9653 May 16 10:29	9°♊31'42	
asc. node	9653 May 26 21:35	26°♊59'11	
	9653 May 28 20:59	0°♋	
evening max el	9653 Jun 03 11:32	7°♋05'33	18°10'01
retrograde	9653 Jun 09 20:26	10°♋26'30	
evening set	9653 Jun 12 17:01	9°♋43'52	
inferior conj	9653 Jun 18 19:37	4°♋27'06	2°47'51
minimum elong	9653 Jun 18 22:03	4°♋20'27	2°47'00
min. Earth dist.	9653 Jun 21 12:27	1°♋31'06	0.63119 AU
	9653 Jun 23 00:49	30°℞♊	
morning rise	9653 Jun 25 01:27	28°♊15'35	
desc. node	9653 Jun 30 02:14	25°♊51'38	
direct	9653 Jul 01 19:09	25°♊42'10	
	9653 Jul 11 15:01	0°♋	
morning max el	9653 Jul 15 18:39	3°♋45'01	27°49'24
	9653 Aug 04 09:30	0°♌	
morning set	9653 Aug 19 06:00	26°♌53'53	
	9653 Aug 20 18:40	0°♍	
asc. node	9653 Aug 22 21:11	4°♍22'11	
max. Earth dist.	9653 Aug 24 09:56	7°♍36'36	1.32391 AU
superior conj	9653 Aug 26 23:50	13°♍09'45	0°40'14
minimum elong	9653 Aug 26 22:05	13°♍00'17	0°39'46
evening rise	9653 Sep 02 21:14	28°♍08'41	
	9653 Sep 03 18:09	0°♎	
	9653 Sep 20 20:27	0°♏	
desc. node	9653 Sep 26 00:34	5°♏58'01	
evening max el	9653 Sep 26 11:54	6°♏25'48	23°35'12
retrograde	9653 Oct 10 00:35	13°♏11'04	
evening set	9653 Oct 14 10:37	12°♏28'32	
min. Earth dist.	9653 Oct 20 22:01	9°♏24'02	0.55632 AU
inferior conj	9653 Oct 22 20:12	8°♏15'33	-5°41'36
minimum elong	9653 Oct 22 19:32	8°♏16'33	5°41'23
morning rise	9653 Oct 31 06:22	4°♏21'54	
direct	9653 Nov 03 02:41	4°♏01'53	
morning max el	9653 Nov 13 16:21	9°♏01'05	20°16'21
asc. node	9653 Nov 18 21:16	15°♏04'57	
	9653 Nov 27 18:09	0°♐	
morning set	9653 Dec 02 02:47	8°♐42'21	
superior conj	9653 Dec 09 17:15	24°♐17'38	1°28'11
minimum elong	9653 Dec 09 19:34	24°♐29'23	1°28'20
	9653 Dec 12 14:00	0°♑	
max. Earth dist.	9653 Dec 15 05:38	5°♑08'02	1.36584 AU
evening rise	9653 Dec 19 01:18	12°♑15'16	
desc. node	9653 Dec 22 23:11	19°♑12'29	
	9653 Dec 29 10:36	0°♒	
	9654 Jan 20 05:44	0°♓	
evening max el	9654 Jan 23 15:18	3°♓32'45	25°52'09
retrograde	9654 Feb 05 03:31	10°♓41'35	
evening set	9654 Feb 11 04:55	8°♓12'58	
asc. node	9654 Feb 14 20:16	4°♓24'59	
min. Earth dist.	9654 Feb 15 11:38	3°♓37'50	0.67178 AU
inferior conj	9654 Feb 16 23:11	1°♓46'01	0°41'23
minimum elong	9654 Feb 16 22:09	1°♓49'15	0°41'11

	9654 Feb 18 09:28	30°℞♒	
morning rise	9654 Feb 22 15:57	25°♒56'16	
direct	9654 Feb 25 22:27	24°♒55'03	
morning max el	9654 Mar 04 16:58	28°♒36'13	18°53'16
	9654 Mar 06 01:02	0°♓	
desc. node	9654 Mar 20 23:17	21°♓05'41	
	9654 Mar 26 16:59	0°♈	
morning set	9654 Mar 27 01:00	0°♈31'10	
max. Earth dist.	9654 Apr 10 16:02	23°♈20'59	1.45387 AU
superior conj	9654 Apr 12 12:14	26°♈14'28	-2°04'04
minimum elong	9654 Apr 12 05:34	25°♈48'18	2°03'52
	9654 Apr 14 21:30	0°♉	
evening rise	9654 Apr 27 14:26	20°♉19'03	
	9654 May 03 13:53	0°♊	
asc. node	9654 May 13 18:40	15°♊34'57	
evening max el	9654 May 18 00:03	20°♊37'33	18°33'02
retrograde	9654 May 24 12:00	24°♊09'24	
evening set	9654 May 27 16:17	23°♊12'26	
inferior conj	9654 Jun 02 09:17	17°♊38'35	3°12'10
minimum elong	9654 Jun 02 10:35	17°♊34'39	3°11'42
min. Earth dist.	9654 Jun 04 11:18	15°♊08'27	0.65054 AU
morning rise	9654 Jun 08 04:02	11°♊20'24	
direct	9654 Jun 14 17:59	8°♊36'21	
desc. node	9654 Jun 16 23:16	8°♊52'51	
morning max el	9654 Jun 28 04:54	16°♊31'29	27°10'44
	9654 Jul 09 08:23	0°♋	
	9654 Jul 28 05:23	0°♌	
morning set	9654 Aug 02 17:52	10°♌19'32	
max. Earth dist.	9654 Aug 07 04:58	19°♌12'26	1.33564 AU
asc. node	9654 Aug 09 18:05	24°♌28'12	
superior conj	9654 Aug 11 02:48	27°♌20'08	0°13'34
minimum elong	9654 Aug 11 02:07	27°♌16'30	0°13'13
behind sun begin	9654 Aug 10 22:55	26°♌59'39	
behind sun end	9654 Aug 11 05:19	27°♌33'23	
	9654 Aug 12 08:58	0°♍	
evening rise	9654 Aug 18 08:06	12°♍43'15	
	9654 Aug 27 02:41	0°♎	
evening max el	9654 Sep 08 01:25	16°♎37'51	21°56'17
desc. node	9654 Sep 12 21:45	20°♎30'52	
retrograde	9654 Sep 20 16:01	22°♎54'09	
evening set	9654 Sep 23 15:21	22°♎34'24	
min. Earth dist.	9654 Oct 02 05:33	18°♎50'10	0.54747 AU
inferior conj	9654 Oct 02 16:09	18°♎35'20	-5°08'46
minimum elong	9654 Oct 02 08:05	18°♎46'38	5°07'14
morning rise	9654 Oct 11 02:12	14°♎47'41	
direct	9654 Oct 14 14:04	14°♎20'51	
morning max el	9654 Oct 26 16:20	20°♎03'36	21°47'18
	9654 Nov 03 19:26	0°♏	
asc. node	9654 Nov 05 18:12	3°♏02'37	
morning set	9654 Nov 16 12:35	23°♏29'03	
	9654 Nov 19 14:34	0°♐	
superior conj	9654 Nov 23 16:34	8°♐38'29	1°37'46
minimum elong	9654 Nov 23 17:41	8°♐44'24	1°38'02
max. Earth dist.	9654 Nov 27 18:17	17°♐01'55	1.34712 AU
evening rise	9654 Dec 02 01:07	25°♐27'45	
	9654 Dec 04 10:57	0°♑	
desc. node	9654 Dec 09 20:13	9°♑36'23	
	9654 Dec 22 21:50	0°♒	
evening max el	9655 Jan 06 04:45	17°♒15'29	26°48'35
retrograde	9655 Jan 19 08:25	24°♒35'06	
evening set	9655 Jan 25 21:09	22°♒00'48	
min. Earth dist.	9655 Jan 29 21:56	18°♒00'09	0.65953 AU
inferior conj	9655 Jan 31 21:16	15°♒42'05	-0°16'42
minimum elong	9655 Jan 31 21:44	15°♒40'44	0°16'14
asc. node	9655 Feb 01 17:23	14°♒43'47	
morning rise	9655 Feb 06 23:25	10°♒03'41	
direct	9655 Feb 09 19:55	9°♒18'49	
morning max el	9655 Feb 16 06:37	12°♒44'32	18°14'18
	9655 Feb 28 16:56	0°♓	
morning set	9655 Mar 07 10:38	10°♓48'44	
desc. node	9655 Mar 07 20:07	11°♓26'54	
	9655 Mar 19 11:33	0°♈	
superior conj	9655 Mar 22 17:54	5°♈07'58	-1°35'52
minimum elong	9655 Mar 22 08:22	4°♈30'32	1°34'54
max. Earth dist.	9655 Mar 24 11:50	7°♈52'09	1.45591 AU
evening rise	9655 Apr 07 19:27	0°♉12'40	
	9655 Apr 07 16:12	0°♉	
greatest brilliancy	9655 Apr 19 05:24	17°♉54'01	-0.7m
	9655 Apr 27 16:36	0°♊	
asc. node	9655 Apr 30 15:46	3°♊30'45	
evening max el	9655 May 01 08:59	4°♊15'35	19°13'16
retrograde	9655 May 08 08:25	8°♊10'55	
evening set	9655 May 11 20:46	6°♊58'52	
inferior conj	9655 May 17 07:39	1°♊09'34	3°19'59
minimum elong	9655 May 17 07:43	1°♊09'21	3°19'42
	9655 May 18 05:05	30°℞♉	
min. Earth dist.	9655 May 18 18:29	29°♉16'55	0.66598 AU
morning rise	9655 May 22 18:14	24°♉49'46	
direct	9655 May 28 23:28	22°♉06'24	
desc. node	9655 Jun 03 20:17	24°♉01'34	
morning max el	9655 Jun 10 15:27	29°♉40'12	26°05'18
	9655 Jun 10 23:12	0°♊	
	9655 Jul 03 05:32	0°♋	
morning set	9655 Jul 16 16:47	23°♋06'07	
	9655 Jul 20 08:19	0°♌	
max. Earth dist.	9655 Jul 20 13:31	0°♌25'07	1.35217 AU
superior conj	9655 Jul 25 22:15	11°♌04'44	-0°16'43
minimum elong	9655 Jul 25 23:14	11°♌09'47	0°16'49
asc. node	9655 Jul 27 14:59	14°♌33'17	
evening rise	9655 Aug 02 16:13	27°♌06'21	
	9655 Aug 04 02:03	0°♍	
evening max el	9655 Aug 21 01:29	27°♍17'34	20°29'41
	9655 Aug 24 05:41	0°♎	
desc. node	9655 Aug 30 18:58	2°♎43'25	
retrograde	9655 Sep 01 04:19	2°♎48'24	
evening set	9655 Sep 03 05:32	2°♎37'57	
	9655 Sep 10 01:16	30°℞♍	
inferior conj	9655 Sep 12 09:00	28°♍40'51	-3°42'38
minimum elong	9655 Sep 11 23:39	28°♍54'25	3°39'42
min. Earth dist.	9655 Sep 13 14:22	27°♍58'15	0.54773 AU
morning rise	9655 Sep 20 17:20	24°♍38'17	
direct	9655 Sep 24 22:37	24°♍00'04	
	9655 Oct 07 18:55	0°♎	
morning max el	9655 Oct 08 06:44	0°♎27'15	23°32'12
asc. node	9655 Oct 23 15:07	21°♎41'30	
	9655 Oct 27 23:48	0°♏	
morning set	9655 Nov 01 00:08	8°♏18'01	
superior conj	9655 Nov 07 22:17	23°♏15'51	1°40'28
minimum elong	9655 Nov 07 22:10	23°♏15'17	1°40'44
max. Earth dist.	9655 Nov 10 14:48	29°♏01'04	1.33228 AU
	9655 Nov 11 01:57	0°♐	
evening rise	9655 Nov 15 13:34	9°♐12'54	
desc. node	9655 Nov 26 17:17	29°♐43'07	
	9655 Nov 26 21:18	0°♑	
	9655 Dec 19 00:27	0°♒	
evening max el	9655 Dec 19 17:25	0°♒41'07	27°22'54
retrograde	9656 Jan 02 07:13	8°♒02'53	
evening set	9656 Jan 09 04:35	5°♒29'21	

min. Earth dist.	9656 Jan	13	00:22	2°♒01'22	0.64373 AU
	9656 Jan	14	22:11	30°℞♑	
inferior conj	9656 Jan	15	11:17	29°♑25'00	-1°22'33
minimum elong	9656 Jan	15	13:50	29°♑18'11	1°21'09
asc. node	9656 Jan	19	14:30	25°♑28'34	
morning rise	9656 Jan	22	00:51	24°♑00'37	
direct	9656 Jan	24	13:10	23°♑28'24	
morning max el	9656 Jan	30	23:40	26°♑49'44	17°52'20
	9656 Feb	02	18:41	0°♒	
morning set	9656 Feb	17	01:10	22°♒31'10	
	9656 Feb	21	12:14	0°♓	
desc. node	9656 Feb	22	16:59	1°♓59'30	
superior conj	9656 Mar	01	11:17	14°♓40'09	-0°55'05
minimum elong	9656 Mar	01	05:08	14°♓15'28	0°54'08
max. Earth dist.	9656 Mar	06	07:17	22°♓22'02	1.45047 AU
	9656 Mar	11	04:10	0°♈	
evening rise	9656 Mar	17	09:12	9°♈35'39	
	9656 Mar	30	21:47	0°♉	
greatest brilliancy	9656 Apr	01	08:10	2°♉05'44	-0.6m
evening max el	9656 Apr	13	12:48	17°♉56'22	20°09'10
asc. node	9656 Apr	16	12:55	20°♉34'41	
retrograde	9656 Apr	21	06:58	22°♉25'34	
evening set	9656 Apr	25	04:09	20°♉58'13	
inferior conj	9656 Apr	30	11:51	14°♉55'15	3°14'31
minimum elong	9656 Apr	30	10:51	14°♉58'39	3°14'12
min. Earth dist.	9656 May	01	08:18	13°♉45'47	0.67701 AU
morning rise	9656 May	05	17:17	8°♉37'05	
direct	9656 May	11	10:51	6°♉03'50	
desc. node	9656 May	20	17:15	10°♉47'48	
morning max el	9656 May	23	01:07	13°♉01'10	24°42'41
	9656 Jun	05	18:07	0°♊	
	9656 Jun	25	00:36	0°♋	
morning set	9656 Jun	27	22:16	5°♋02'18	
max. Earth dist.	9656 Jul	01	12:54	11°♋30'48	1.37267 AU
superior conj	9656 Jul	08	07:08	24°♋16'16	-0°49'12
minimum elong	9656 Jul	08	10:16	24°♋31'32	0°48'58
	9656 Jul	11	05:02	0°♌	
asc. node	9656 Jul	13	11:56	4°♌33'57	
evening rise	9656 Jul	16	19:15	11°♌11'44	
	9656 Jul	26	23:02	0°♍	
evening max el	9656 Aug	02	15:15	8°♍42'43	19°22'38
retrograde	9656 Aug	12	01:22	13°♍22'53	
evening set	9656 Aug	13	21:33	13°♍12'57	
desc. node	9656 Aug	16	16:09	12°♍23'32	
inferior conj	9656 Aug	22	13:12	9°♍05'24	-1°48'59
minimum elong	9656 Aug	22	08:19	9°♍13'21	1°47'14
min. Earth dist.	9656 Aug	25	02:45	7°♍25'22	0.55738 AU
morning rise	9656 Aug	30	16:25	4°♍30'13	
direct	9656 Sep	04	17:16	3°♍32'37	
morning max el	9656 Sep	18	18:42	10°♍38'07	25°16'42
	9656 Oct	03	11:08	0°♎	
asc. node	9656 Oct	09	12:02	10°♎51'24	
morning set	9656 Oct	15	11:44	23°♎04'24	
	9656 Oct	18	16:23	0°♏	
superior conj	9656 Oct	22	07:57	8°♏02'25	1°36'57
minimum elong	9656 Oct	22	06:48	7°♏56'03	1°37'05
max. Earth dist.	9656 Oct	23	18:34	11°♏12'28	1.32198 AU
evening rise	9656 Oct	29	11:25	23°♏22'31	
	9656 Nov	01	18:15	0°♐	
desc. node	9656 Nov	12	14:22	19°♐25'24	
	9656 Nov	19	14:56	0°♑	
evening max el	9656 Dec	01	03:36	13°♑37'54	27°28'36
retrograde	9656 Dec	14	23:06	20°♑55'28	
evening set	9656 Dec	22	00:20	18°♑31'30	
min. Earth dist.	9656 Dec	25	17:14	15°♑31'37	0.62499 AU
inferior conj	9656 Dec	28	14:20	12°♑47'41	-2°34'11
minimum elong	9656 Dec	28	19:23	12°♑35'41	2°31'54
morning rise	9657 Jan	04	16:44	7°♑40'14	
asc. node	9657 Jan	05	11:37	7°♑26'54	
direct	9657 Jan	06	23:11	7°♑16'50	
morning max el	9657 Jan	13	16:57	10°♑43'19	17°47'54
	9657 Jan	26	14:28	0°♒	
morning set	9657 Jan	29	15:10	5°♒20'35	
desc. node	9657 Feb	08	13:50	22°♒39'03	
superior conj	9657 Feb	10	03:57	25°♒19'51	-0°11'51
minimum elong	9657 Feb	10	02:48	25°♒15'00	0°11'26
behind sun begin	9657 Feb	09	20:26	24°♒48'17	
behind sun end	9657 Feb	10	09:09	25°♒41'41	
	9657 Feb	12	23:15	0°♓	
max. Earth dist.	9657 Feb	16	23:45	6°♓33'31	1.43831 AU
evening rise	9657 Feb	24	22:04	19°♓04'40	
	9657 Mar	04	02:05	0°♈	
	9657 Mar	25	22:02	0°♉	
evening max el	9657 Mar	27	11:05	1°♉38'10	21°17'57
asc. node	9657 Apr	03	10:06	6°♉31'30	
retrograde	9657 Apr	05	05:24	6°♉47'44	
evening set	9657 Apr	09	12:30	5°♉05'01	
	9657 Apr	13	23:25	30°℞♈	
inferior conj	9657 Apr	14	19:27	28°♈50'39	2°57'53
minimum elong	9657 Apr	14	17:41	28°♈56'50	2°57'24
min. Earth dist.	9657 Apr	15	02:36	28°♈25'51	0.68353 AU
morning rise	9657 Apr	19	22:39	22°♈36'11	
direct	9657 Apr	25	02:57	20°♈19'58	
morning max el	9657 May	05	10:47	26°♈28'23	23°13'01
desc. node	9657 May	07	14:12	28°♈44'44	
	9657 May	08	16:49	0°♉	
	9657 May	30	07:41	0°♊	
morning set	9657 Jun	09	04:53	15°♊53'24	
max. Earth dist.	9657 Jun	13	09:04	22°♊59'41	1.39532 AU
	9657 Jun	17	08:30	0°♋	
superior conj	9657 Jun	21	01:31	6°♋44'59	-1°21'30
minimum elong	9657 Jun	21	06:47	7°♋09'19	1°21'05
asc. node	9657 Jun	30	08:55	24°♋25'42	
evening rise	9657 Jun	30	14:10	24°♋50'59	
	9657 Jul	03	06:48	0°♌	
evening max el	9657 Jul	16	16:37	20°♌51'43	18°36'39
retrograde	9657 Jul	24	15:50	24°♌50'08	
evening set	9657 Jul	26	16:49	24°♌35'22	
inferior conj	9657 Aug	03	13:30	20°♌09'10	-0°00'08
minimum elong	9657 Aug	03	13:29	20°♌09'11	0°00'22
transit middle	9657 Aug	03	13:29	20°♌09'11	0°00'22
transit begin	9657 Aug	03	09:51	20°♌16'05	
transit end	9657 Aug	03	17:07	20°♌02'17	
desc. node	9657 Aug	03	13:20	20°♌09'29	
min. Earth dist.	9657 Aug	06	19:55	17°♌41'04	0.57455 AU
morning rise	9657 Aug	11	06:38	14°♌56'56	
direct	9657 Aug	17	02:30	13°♌32'01	
morning max el	9657 Aug	31	10:31	21°♌05'10	26°43'39
	9657 Sep	08	04:35	0°♍	
asc. node	9657 Sep	26	08:56	0°♎24'00	
	9657 Sep	26	04:10	0°♎	
morning set	9657 Sep	29	21:46	7°♎43'33	
superior conj	9657 Oct	06	19:32	22°♎51'46	1°27'44
minimum elong	9657 Oct	06	17:38	22°♎41'13	1°27'40
max. Earth dist.	9657 Oct	07	03:08	23°♎34'00	1.31636 AU
	9657 Oct	10	00:57	0°♏	
evening rise	9657 Oct	13	15:55	7°♏49'09	
	9657 Oct	25	04:43	0°♐	

desc. node	9657 Oct	30	11:30	8°♐33'33	
evening max el	9657 Nov	13	08:56	25°♐54'12	27°01'07
	9657 Nov	18	10:52	0°♑	
retrograde	9657 Nov	27	06:51	3°♑04'18	
evening set	9657 Dec	04	04:44	0°♑59'57	
	9657 Dec	05	18:06	30°℞♐	
min. Earth dist.	9657 Dec	07	23:33	28°♐19'26	0.60436 AU
inferior conj	9657 Dec	11	03:08	25°♐41'59	-3°47'11
minimum elong	9657 Dec	11	10:20	25°♐26'56	3°44'32
morning rise	9657 Dec	18	18:28	20°♐54'26	
direct	9657 Dec	20	22:20	20°♐36'12	
asc. node	9657 Dec	23	08:43	21°♐00'20	
morning max el	9657 Dec	28	07:06	24°♐16'42	18°02'08
	9658 Jan	01	22:41	0°♑	
morning set	9658 Jan	12	22:15	18°♑58'20	
	9658 Jan	18	21:43	0°♒	
superior conj	9658 Jan	22	21:34	7°♒10'35	0°26'39
minimum elong	9658 Jan	22	23:39	7°♒19'50	0°26'39
desc. node	9658 Jan	26	10:43	13°♒22'19	
max. Earth dist.	9658 Jan	30	12:13	20°♒15'13	1.42080 AU
evening rise	9658 Feb	05	00:24	29°♒14'23	
	9658 Feb	05	11:50	0°♓	
	9658 Feb	25	16:18	0°♈	
evening max el	9658 Mar	10	04:42	15°♈22'22	22°35'15
retrograde	9658 Mar	20	02:02	21°♈13'31	
asc. node	9658 Mar	21	07:17	21°♈06'11	
evening set	9658 Mar	24	20:12	19°♈15'46	
inferior conj	9658 Mar	30	04:24	12°♈52'42	2°31'21
minimum elong	9658 Mar	30	02:14	13°♈00'16	2°30'43
min. Earth dist.	9658 Mar	29	23:04	13°♈11'14	0.68565 AU
morning rise	9658 Apr	04	08:07	6°♈43'26	
direct	9658 Apr	08	22:45	4°♈48'15	
morning max el	9658 Apr	17	23:43	10°♈04'15	21°45'36
desc. node	9658 Apr	24	11:05	17°♈33'06	
	9658 May	03	13:34	0°♉	
morning set	9658 May	20	08:40	25°♉30'27	
	9658 May	23	03:37	0°♊	
max. Earth dist.	9658 May	26	09:28	5°♊19'30	1.41742 AU
superior conj	9658 Jun	03	00:54	18°♊20'43	-1°49'48
minimum elong	9658 Jun	03	07:05	18°♊47'47	1°49'34
	9658 Jun	09	13:31	0°♋	
evening rise	9658 Jun	13	21:17	7°♋55'11	
asc. node	9658 Jun	17	05:55	14°♋04'16	
	9658 Jun	26	23:26	0°♌	
evening max el	9658 Jun	30	01:42	3°♌35'50	18°11'04
retrograde	9658 Jul	07	01:15	7°♌07'46	
evening set	9658 Jul	09	09:45	6°♌44'16	
inferior conj	9658 Jul	16	11:23	1°♌57'10	1°25'38
minimum elong	9658 Jul	16	13:52	1°♌51'38	1°24'28
	9658 Jul	18	15:55	30°℞♋	
min. Earth dist.	9658 Jul	19	19:39	29°♋00'12	0.59610 AU
desc. node	9658 Jul	21	10:29	27°♋42'27	
morning rise	9658 Jul	23	14:55	26°♋13'49	
direct	9658 Jul	30	00:47	24°♋18'44	
	9658 Aug	11	01:08	0°♌	
morning max el	9658 Aug	13	09:12	2°♌09'57	27°39'10
	9658 Sep	02	14:19	0°♍	
asc. node	9658 Sep	13	05:48	20°♍12'17	
morning set	9658 Sep	14	04:25	22°♍09'59	
	9658 Sep	17	20:11	0°♎	
max. Earth dist.	9658 Sep	20	12:53	5°♎56'09	1.31550 AU
superior conj	9658 Sep	21	07:07	7°♎37'19	1°13'12
minimum elong	9658 Sep	21	04:54	7°♎24'55	1°12'54
evening rise	9658 Sep	28	00:42	22°♎25'22	
	9658 Oct	01	15:47	0°♏	
desc. node	9658 Oct	17	08:40	26°♏53'18	
	9658 Oct	19	17:00	0°♐	
evening max el	9658 Oct	26	06:40	7°♐19'20	26°00'00
retrograde	9658 Nov	09	04:30	14°♐22'07	
evening set	9658 Nov	15	12:59	12°♐46'32	
min. Earth dist.	9658 Nov	19	19:26	10°♐11'28	0.58351 AU
inferior conj	9658 Nov	22	22:01	7°♐56'41	-4°52'46
minimum elong	9658 Nov	23	05:28	7°♐43'08	4°50'48
morning rise	9658 Dec	01	00:20	3°♐31'39	
direct	9658 Dec	03	06:07	3°♐15'17	
asc. node	9658 Dec	10	05:45	6°♐05'49	
morning max el	9658 Dec	11	14:22	7°♐18'35	18°36'44
	9658 Dec	26	02:11	0°♑	
morning set	9658 Dec	27	17:06	3°♑07'46	
superior conj	9659 Jan	05	12:12	20°♑00'22	0°57'14
minimum elong	9659 Jan	05	15:24	20°♑15'18	0°57'08
	9659 Jan	10	23:46	0°♒	
max. Earth dist.	9659 Jan	12	20:24	3°♒16'22	1.39986 AU
desc. node	9659 Jan	13	07:37	4°♒05'07	
evening rise	9659 Jan	16	23:18	10°♒19'01	
	9659 Jan	29	09:49	0°♓	
evening max el	9659 Feb	20	19:10	29°♓08'51	23°55'34
	9659 Feb	21	16:11	0°♈	
retrograde	9659 Mar	03	19:32	5°♈37'43	
asc. node	9659 Mar	08	04:29	4°♈07'17	
evening set	9659 Mar	09	01:42	3°♈25'55	
	9659 Mar	12	06:01	30°℞♓	
min. Earth dist.	9659 Mar	13	19:31	27°♓56'19	0.68345 AU
inferior conj	9659 Mar	14	12:46	26°♓57'40	1°55'36
minimum elong	9659 Mar	14	10:38	27°♓04'56	1°54'57
morning rise	9659 Mar	19	19:36	20°♓54'52	
direct	9659 Mar	23	20:53	19°♓21'56	
morning max el	9659 Mar	31	19:14	23°♓51'49	20°27'33
	9659 Apr	06	03:23	0°♈	
desc. node	9659 Apr	11	07:55	6°♈58'30	
	9659 Apr	26	21:09	0°♉	
morning set	9659 Apr	29	13:18	4°♉07'07	
max. Earth dist.	9659 May	08	17:04	18°♉33'40	1.43610 AU
superior conj	9659 May	15	00:58	28°♉54'07	-2°08'38
minimum elong	9659 May	15	04:52	29°♉10'19	2°08'48
	9659 May	15	16:48	0°♊	
evening rise	9659 May	27	12:02	20°♊13'32	
	9659 Jun	02	02:47	0°♋	
asc. node	9659 Jun	04	02:58	3°♋24'15	
evening max el	9659 Jun	13	14:38	16°♋45'11	18°04'59
retrograde	9659 Jun	20	02:01	20°♋06'16	
evening set	9659 Jun	22	18:10	19°♋31'14	
inferior conj	9659 Jun	29	03:59	14°♋24'34	2°24'43
minimum elong	9659 Jun	29	06:49	14°♋17'21	2°23'39
min. Earth dist.	9659 Jul	02	04:01	11°♋21'58	0.61868 AU
morning rise	9659 Jul	05	17:19	8°♋20'16	
desc. node	9659 Jul	08	07:35	6°♋51'24	
direct	9659 Jul	12	10:03	5°♋58'37	
morning max el	9659 Jul	26	14:27	14°♋00'06	27°56'41
	9659 Aug	08	11:27	0°♌	
	9659 Aug	26	02:08	0°♍	
morning set	9659 Aug	29	05:46	6°♍18'35	
asc. node	9659 Aug	31	02:40	10°♍11'07	
max. Earth dist.	9659 Sep	03	19:57	18°♍08'05	1.31943 AU
superior conj	9659 Sep	05	16:56	22°♍13'54	0°53'40
minimum elong	9659 Sep	05	14:52	22°♍02'28	0°53'12
	9659 Sep	09	05:38	0°♎	
evening rise	9659 Sep	12	11:48	7°♎05'24	

	9659 Sep 24 08:02	0°♏	
desc. node	9659 Oct 04 05:51	14°♏05'45	
evening max el	9659 Oct 07 20:22	17°♏55'29	24°32'09
retrograde	9659 Oct 21 14:45	24°♏50'10	
evening set	9659 Oct 26 21:01	23°♏48'41	
min. Earth dist.	9659 Nov 01 07:23	21°♏00'20	0.56486 AU
inferior conj	9659 Nov 03 20:32	19°♏23'46	-5°35'25
minimum elong	9659 Nov 04 00:08	19°♏18'04	5°34'52
morning rise	9659 Nov 12 05:26	15°♏20'54	
direct	9659 Nov 14 18:47	15°♏03'14	
morning max el	9659 Nov 24 11:07	19°♏39'01	19°33'29
asc. node	9659 Nov 27 02:43	22°♏30'20	
	9659 Dec 02 09:11	0°♐	
morning set	9659 Dec 11 19:55	17°♐37'47	
	9659 Dec 17 23:23	0°♑	
superior conj	9659 Dec 19 18:54	3°♑35'20	1°19'14
minimum elong	9659 Dec 19 21:46	3°♑49'26	1°19'16
max. Earth dist.	9659 Dec 26 02:17	15°♑36'43	1.37792 AU
evening rise	9659 Dec 29 19:34	22°♑19'27	
desc. node	9659 Dec 31 04:33	24°♑43'59	
	9660 Jan 03 06:32	0°♒	
	9660 Jan 23 06:43	0°♓	
evening max el	9660 Feb 03 08:20	12°♓57'12	25°12'19
retrograde	9660 Feb 15 08:56	19°♓55'12	
evening set	9660 Feb 21 03:26	17°♓31'32	
asc. node	9660 Feb 23 01:38	15°♓38'42	
min. Earth dist.	9660 Feb 25 13:47	12°♓36'41	0.67716 AU
inferior conj	9660 Feb 26 18:44	11°♓02'26	1°10'59
minimum elong	9660 Feb 26 17:08	11°♓07'38	1°10'32
morning rise	9660 Mar 03 07:12	5°♓07'33	
direct	9660 Mar 06 20:05	3°♓55'39	
morning max el	9660 Mar 13 22:40	7°♓51'06	19°23'10
greatest brilliancy	9660 Mar 26 17:37	24°♓40'01	-0.7m
desc. node	9660 Mar 28 04:44	26°♓50'59	
	9660 Mar 30 06:55	0°♈	
morning set	9660 Apr 07 12:29	12°♈35'52	
	9660 Apr 18 17:00	0°♉	
max. Earth dist.	9660 Apr 20 06:53	2°♉29'09	1.44925 AU
superior conj	9660 Apr 24 00:51	8°♉25'45	-2°11'32
minimum elong	9660 Apr 23 22:18	8°♉15'37	2°11'42
	9660 May 07 06:43	0°♊	
evening rise	9660 May 08 05:40	1°♊35'22	
asc. node	9660 May 21 00:03	22°♊18'29	
	9660 May 26 23:51	0°♋	
evening max el	9660 May 27 04:03	0°♋10'34	18°17'38
retrograde	9660 Jun 02 13:21	3°♋34'58	
evening set	9660 Jun 05 13:05	2°♋46'30	
	9660 Jun 09 01:12	30°℞♊	
inferior conj	9660 Jun 11 11:07	27°♊22'12	3°00'25
minimum elong	9660 Jun 11 13:07	27°♊16'29	2°59'45
min. Earth dist.	9660 Jun 13 21:49	24°♊35'12	0.63974 AU
morning rise	9660 Jun 17 11:52	21°♊06'44	
direct	9660 Jun 24 04:30	18°♊27'24	
desc. node	9660 Jun 24 04:39	18°♊27'24	
morning max el	9660 Jul 07 23:47	26°♊29'22	27°36'52
	9660 Jul 11 06:09	0°♋	
	9660 Aug 01 02:11	0°♌	
morning set	9660 Aug 11 23:23	20°♌02'07	
asc. node	9660 Aug 16 23:32	0°♍15'28	
	9660 Aug 16 20:35	0°♍	
max. Earth dist.	9660 Aug 16 20:15	29°♌58'18	1.32826 AU
superior conj	9660 Aug 19 23:01	6°♍35'15	0°29'27
minimum elong	9660 Aug 19 21:39	6°♍27'53	0°28'59
evening rise	9660 Aug 26 23:15	21°♍43'03	

	9660 Aug 30 22:54	0°♎	
evening max el	9660 Sep 18 07:14	28°♎05'23	22°52'21
desc. node	9660 Sep 20 03:02	29°♎45'16	
	9660 Sep 20 10:03	0°♏	
retrograde	9660 Oct 01 12:51	4°♏41'24	
evening set	9660 Oct 05 07:17	4°♏10'20	
min. Earth dist.	9660 Oct 12 15:41	0°♏50'29	0.55152 AU
inferior conj	9660 Oct 14 00:06	0°♏03'58	-5°34'48
minimum elong	9660 Oct 13 19:57	0°♏09'56	5°34'17
	9660 Oct 14 02:52	30°℞♎	
morning rise	9660 Oct 22 10:31	26°♎15'04	
direct	9660 Oct 25 12:49	25°♎52'46	
	9660 Nov 04 11:02	0°♏	
morning max el	9660 Nov 05 18:45	1°♏10'11	20°52'44
asc. node	9660 Nov 12 23:39	9°♏57'58	
	9660 Nov 24 00:36	0°♐	
morning set	9660 Nov 25 03:48	2°♐20'00	
superior conj	9660 Dec 02 13:12	17°♐42'32	1°33'08
minimum elong	9660 Dec 02 15:03	17°♐51'59	1°33'20
max. Earth dist.	9660 Dec 07 10:49	27°♐32'33	1.35743 AU
	9660 Dec 08 17:13	0°♑	
evening rise	9660 Dec 11 10:25	5°♑08'38	
desc. node	9660 Dec 17 01:33	15°♑14'51	
	9660 Dec 26 02:53	0°♒	
evening max el	9661 Jan 15 21:37	26°♒44'21	26°18'24
	9661 Jan 19 14:25	0°♓	
retrograde	9661 Jan 28 17:23	3°♓59'56	
evening set	9661 Feb 03 23:44	1°♓28'07	
	9661 Feb 05 14:11	30°℞♒	
min. Earth dist.	9661 Feb 08 03:45	27°♒07'42	0.66697 AU
asc. node	9661 Feb 08 22:46	26°♒09'54	
inferior conj	9661 Feb 09 20:22	25°♒03'37	0°17'45
minimum elong	9661 Feb 09 19:53	25°♒05'04	0°17'48
morning rise	9661 Feb 15 16:51	19°♒18'25	
direct	9661 Feb 18 18:47	18°♒24'46	
morning max el	9661 Feb 25 09:14	21°♒58'18	18°34'37
	9661 Mar 03 21:13	0°♓	
desc. node	9661 Mar 15 01:34	17°♓03'35	
morning set	9661 Mar 18 05:44	22°♓03'40	
	9661 Mar 23 06:46	0°♈	
superior conj	9661 Apr 03 08:33	17°♈20'56	-1°54'16
minimum elong	9661 Apr 02 23:48	16°♈46'41	1°53'41
max. Earth dist.	9661 Apr 03 00:51	16°♈50'49	1.45560 AU
	9661 Apr 11 10:04	0°♉	
evening rise	9661 Apr 18 23:29	11°♉58'15	
greatest brilliancy	9661 Apr 27 10:36	25°♉24'50	-0.8m
	9661 Apr 30 09:20	0°♊	
asc. node	9661 May 07 21:10	10°♊38'48	
evening max el	9661 May 10 15:19	13°♊45'47	18°48'09
retrograde	9661 May 17 07:19	17°♊26'19	
evening set	9661 May 20 14:53	16°♊23'12	
inferior conj	9661 May 26 04:55	10°♊42'48	3°17'16
minimum elong	9661 May 26 05:41	10°♊40'24	3°16'54
min. Earth dist.	9661 May 28 00:32	8°♊27'13	0.65761 AU
morning rise	9661 May 31 19:48	4°♊23'17	
direct	9661 Jun 07 06:35	1°♊37'52	
desc. node	9661 Jun 11 01:40	2°♊26'16	
morning max el	9661 Jun 20 10:21	9°♊26'31	26°45'33
	9661 Jul 06 13:34	0°♋	
	9661 Jul 24 13:22	0°♌	
morning set	9661 Jul 26 06:13	3°♌12'16	
max. Earth dist.	9661 Jul 30 10:33	11°♌21'19	1.34207 AU
superior conj	9661 Aug 03 23:07	20°♌35'18	0°01'07
minimum elong	9661 Aug 03 23:04	20°♌35'05	0°00'51

behind sun begin	9661 Aug 03 17:19	20°♌05'12	
behind sun end	9661 Aug 04 04:49	21°♌05'01	
asc. node	9661 Aug 03 20:26	20°♌21'22	
	9661 Aug 08 10:27	0°♍	
evening rise	9661 Aug 11 09:11	6°♍12'56	
	9661 Aug 24 05:44	0°♎	
evening max el	9661 Aug 31 00:34	8°♎26'03	21°17'25
desc. node	9661 Sep 07 00:15	13°♎21'35	
retrograde	9661 Sep 12 01:30	14°♎24'16	
evening set	9661 Sep 14 13:00	14°♎10'03	
inferior conj	9661 Sep 23 16:58	10°♎13'47	-4°37'45
minimum elong	9661 Sep 23 07:24	10°♎27'14	4°35'22
min. Earth dist.	9661 Sep 23 23:48	10°♎04'11	0.54640 AU
morning rise	9661 Oct 02 02:25	6°♎22'00	
direct	9661 Oct 05 21:27	5°♎50'56	
morning max el	9661 Oct 18 13:54	11°♎53'40	22°30'51
asc. node	9661 Oct 30 20:35	28°♎14'26	
	9661 Oct 31 20:56	0°♏	
morning set	9661 Nov 09 14:33	17°♏07'56	
	9661 Nov 15 14:57	0°♐	
superior conj	9661 Nov 16 15:33	2°♐11'12	1°39'42
minimum elong	9661 Nov 16 16:09	2°♐14'21	1°39'59
max. Earth dist.	9661 Nov 20 02:31	9°♐26'13	1.34028 AU
evening rise	9661 Nov 24 16:03	18°♐36'17	
	9661 Nov 30 18:25	0°♑	
desc. node	9661 Dec 03 22:36	5°♑32'13	
	9661 Dec 20 07:12	0°♒	
evening max el	9661 Dec 29 11:01	10°♒21'45	27°06'24
retrograde	9662 Jan 11 19:55	17°♒43'23	
evening set	9662 Jan 18 12:33	15°♒08'48	
min. Earth dist.	9662 Jan 22 11:08	11°♒22'04	0.65316 AU
inferior conj	9662 Jan 24 15:23	8°♒55'13	-0°43'45
minimum elong	9662 Jan 24 16:40	8°♒51'36	0°42'54
asc. node	9662 Jan 26 19:54	6°♒32'47	
morning rise	9662 Jan 30 22:08	3°♒22'08	
direct	9662 Feb 02 14:52	2°♒43'08	
morning max el	9662 Feb 09 00:39	6°♒06'02	18°02'48
	9662 Feb 25 08:28	0°♓	
morning set	9662 Feb 27 04:06	2°♓58'54	
desc. node	9662 Mar 01 22:24	7°♓30'05	
superior conj	9662 Mar 13 17:07	26°♓25'22	-1°19'30
minimum elong	9662 Mar 13 08:28	25°♓51'11	1°18'26
	9662 Mar 15 23:35	0°♈	
max. Earth dist.	9662 Mar 16 20:38	1°♈22'40	1.45452 AU
evening rise	9662 Mar 29 20:31	21°♈34'33	
	9662 Apr 04 07:47	0°♉	
greatest brilliancy	9662 Apr 12 04:48	11°♉56'36	-0.7m
evening max el	9662 Apr 23 22:18	27°♉25'27	19°35'19
asc. node	9662 Apr 24 18:18	28°♉14'08	
	9662 Apr 26 22:11	0°♊	
retrograde	9662 May 01 04:49	1°♊33'43	
evening set	9662 May 04 20:51	0°♊15'11	
	9662 May 05 05:00	30°℞♉	
inferior conj	9662 May 10 06:05	24°♉20'05	3°19'07
minimum elong	9662 May 10 05:40	24°♉21'28	3°18'50
min. Earth dist.	9662 May 11 10:44	22°♉45'16	0.67130 AU
morning rise	9662 May 15 14:08	18°♉00'52	
direct	9662 May 21 14:49	15°♉20'32	
desc. node	9662 May 28 22:39	18°♉19'35	
morning max el	9662 Jun 02 20:18	22°♉40'08	25°31'33
	9662 Jun 09 06:59	0°♊	
	9662 Jun 29 21:00	0°♋	
morning set	9662 Jul 08 22:18	15°♋38'30	
max. Earth dist.	9662 Jul 12 14:29	22°♋26'31	1.36048 AU
	9662 Jul 16 12:40	0°♌	
superior conj	9662 Jul 18 14:31	4°♌06'56	-0°30'20
minimum elong	9662 Jul 18 16:23	4°♌16'13	0°30'17
asc. node	9662 Jul 21 17:24	10°♌25'10	
evening rise	9662 Jul 26 15:27	20°♌29'07	
	9662 Jul 31 10:14	0°♍	
evening max el	9662 Aug 13 06:35	19°♍24'43	19°58'41
retrograde	9662 Aug 23 15:37	24°♍33'10	
desc. node	9662 Aug 24 21:27	24°♍29'02	
evening set	9662 Aug 25 13:12	24°♍23'36	
inferior conj	9662 Sep 03 13:05	20°♍23'41	-2°55'45
minimum elong	9662 Sep 03 05:14	20°♍35'32	2°53'02
min. Earth dist.	9662 Sep 05 09:49	19°♍16'15	0.55075 AU
morning rise	9662 Sep 11 19:50	16°♍09'06	
direct	9662 Sep 16 09:36	15°♍23'32	
morning max el	9662 Sep 30 02:08	22°♍07'41	24°17'42
	9662 Oct 07 00:12	0°♎	
asc. node	9662 Oct 17 17:30	17°♎07'59	
	9662 Oct 24 04:21	0°♏	
morning set	9662 Oct 25 02:23	1°♏56'50	
superior conj	9662 Oct 31 23:15	16°♏53'35	1°39'41
minimum elong	9662 Oct 31 22:40	16°♏50'25	1°39'55
max. Earth dist.	9662 Nov 03 02:39	21°♏32'05	1.32738 AU
	9662 Nov 07 02:55	0°♐	
evening rise	9662 Nov 08 08:56	2°♐33'28	
desc. node	9662 Nov 20 19:42	25°♐30'02	
	9662 Nov 23 14:32	0°♑	
evening max el	9662 Dec 11 23:12	23°♑37'50	27°29'10
	9662 Dec 21 01:39	0°♒	
retrograde	9662 Dec 25 15:41	0°♒57'25	
	9662 Dec 29 23:44	30°℞♑	
evening set	9663 Jan 01 15:25	28°♑27'06	
min. Earth dist.	9663 Jan 05 09:45	25°♑11'40	0.63614 AU
inferior conj	9663 Jan 08 01:10	22°♑30'55	-1°52'20
minimum elong	9663 Jan 08 04:45	22°♑21'48	1°50'33
asc. node	9663 Jan 13 17:00	17°♑44'45	
morning rise	9663 Jan 14 20:02	17°♑13'04	
direct	9663 Jan 17 05:39	16°♑44'55	
morning max el	9663 Jan 23 18:08	20°♑07'09	17°48'11
	9663 Jan 31 04:12	0°♒	
morning set	9663 Feb 09 05:28	15°♒12'40	
desc. node	9663 Feb 16 19:16	28°♒06'07	
	9663 Feb 17 22:32	0°♓	
superior conj	9663 Feb 21 19:34	6°♓23'57	-0°36'31
minimum elong	9663 Feb 21 15:38	6°♓07'51	0°35'46
max. Earth dist.	9663 Feb 27 15:37	15°♓48'27	1.44617 AU
	9663 Mar 08 17:32	0°♈	
evening rise	9663 Mar 09 08:02	0°♈55'41	
	9663 Mar 29 00:02	0°♉	
evening max el	9663 Apr 06 23:50	11°♉06'47	20°37'02
asc. node	9663 Apr 11 15:29	14°♉51'23	
retrograde	9663 Apr 15 03:29	15°♉52'05	
evening set	9663 Apr 19 04:52	14°♉17'58	
inferior conj	9663 Apr 24 11:59	8°♉09'53	3°08'42
minimum elong	9663 Apr 24 10:37	8°♉14'36	3°08'19
min. Earth dist.	9663 Apr 25 02:35	7°♉19'41	0.68042 AU
morning rise	9663 Apr 29 16:09	1°♉53'20	
	9663 May 02 12:15	30°℞♈	
direct	9663 May 05 04:13	29°♈26'50	
	9663 May 08 00:32	0°♉	
desc. node	9663 May 15 19:36	5°♉38'22	
morning max el	9663 May 16 05:41	6°♉03'35	24°04'46
	9663 Jun 03 18:33	0°♊	
morning set	9663 Jun 20 18:39	27°♊07'51	
	9663 Jun 22 10:19	0°♋	
max. Earth dist.	9663 Jun 24 12:02	3°♋39'39	1.38223 AU

superior conj	9663 Jul	01	17:45	17°♋01'05	-1°03'07
minimum elong	9663 Jul	01	21:50	17°♋20'35	1°02'46
	9663 Jul	08	09:51	0°♌	
asc. node	9663 Jul	08	14:23	0°♌22'20	
evening rise	9663 Jul	10	15:26	4°♌24'13	
	9663 Jul	25	23:32	0°♍	
evening max el	9663 Jul	27	01:36	1°♍08'21	19°00'28
retrograde	9663 Aug	04	19:39	5°♍29'24	
evening set	9663 Aug	06	17:15	5°♍17'54	
desc. node	9663 Aug	11	18:38	3°♍11'29	
inferior conj	9663 Aug	15	01:08	1°♍02'34	-1°00'40
minimum elong	9663 Aug	14	22:32	1°♍07'06	0°59'51
	9663 Aug	16	12:58	30°℞♌	
min. Earth dist.	9663 Aug	17	23:40	29°♌00'38	0.56389 AU
morning rise	9663 Aug	23	00:40	26°♌11'41	
direct	9663 Aug	28	09:50	25°♌03'33	
	9663 Sep	08	23:13	0°♍	
morning max el	9663 Sep	11	15:08	2°♍21'27	25°56'59
	9663 Oct	01	04:47	0°♎	
asc. node	9663 Oct	04	14:25	6°♎28'10	
morning set	9663 Oct	09	13:31	16°♎40'32	
	9663 Oct	15	15:37	0°♏	
superior conj	9663 Oct	16	09:57	1°♏41'33	1°33'43
minimum elong	9663 Oct	16	08:26	1°♏33'10	1°33'46
max. Earth dist.	9663 Oct	17	09:02	3°♏49'10	1.31901 AU
evening rise	9663 Oct	23	09:53	16°♏50'39	
	9663 Oct	30	00:51	0°♐	
desc. node	9663 Nov	07	16:49	14°♐59'08	
	9663 Nov	18	11:03	0°♑	
evening max el	9663 Nov	24	07:34	6°♑18'12	27°21'02
retrograde	9663 Dec	08	03:58	13°♑32'21	
evening set	9663 Dec	15	05:06	11°♑15'15	
min. Earth dist.	9663 Dec	18	21:57	8°♑25'16	0.61646 AU
inferior conj	9663 Dec	21	22:33	5°♑42'13	-3°05'20
minimum elong	9663 Dec	22	04:37	5°♑28'33	3°02'47
morning rise	9663 Dec	29	06:33	0°♑43'00	
direct	9663 Dec	31	11:34	0°♑22'08	
asc. node	9663 Dec	31	14:05	0°♑22'11	
morning max el	9664 Jan	07	10:31	3°♑53'03	17°51'36
morning set	9664 Jan	23	03:25	28°♑24'30	
	9664 Jan	24	00:35	0°♒	
superior conj	9664 Feb	02	23:07	17°♒34'42	0°05'21
minimum elong	9664 Feb	02	23:38	17°♒36'53	0°05'32
behind sun begin	9664 Feb	02	15:36	17°♒02'24	
behind sun end	9664 Feb	03	07:39	18°♒11'17	
desc. node	9664 Feb	03	16:08	18°♒47'34	
	9664 Feb	10	09:19	0°♓	
max. Earth dist.	9664 Feb	10	06:50	29°♒49'49	1.43145 AU
evening rise	9664 Feb	17	01:11	10°♓38'25	
	9664 Feb	29	20:25	0°♈	
evening max el	9664 Mar	19	19:51	24°♈48'59	21°50'01
	9664 Mar	27	04:51	0°♉	
asc. node	9664 Mar	28	12:38	0°♉15'12	
retrograde	9664 Mar	29	01:25	0°♉16'36	
	9664 Mar	30	20:07	30°℞♈	
evening set	9664 Apr	02	13:09	28°♈27'11	
inferior conj	9664 Apr	07	20:24	22°♈08'31	2°47'46
minimum elong	9664 Apr	07	18:24	22°♈15'28	2°47'14
min. Earth dist.	9664 Apr	07	22:03	22°♈02'45	0.68496 AU
morning rise	9664 Apr	12	23:29	15°♈56'10	
direct	9664 Apr	17	21:53	13°♈48'53	
morning max el	9664 Apr	27	16:30	19°♈34'55	22°35'07
desc. node	9664 May	01	16:30	23°♈59'15	
	9664 May	06	11:26	0°♉	
	9664 May	26	22:47	0°♊	
morning set	9664 May	31	14:10	7°♊28'20	
max. Earth dist.	9664 Jun	05	09:38	15°♊29'35	1.40495 AU
superior conj	9664 Jun	13	04:37	29°♊08'23	-1°34'16
minimum elong	9664 Jun	13	10:32	29°♊35'05	1°33'54
	9664 Jun	13	16:02	0°♋	
evening rise	9664 Jun	23	05:54	17°♋50'11	
asc. node	9664 Jun	24	11:24	20°♋09'14	
	9664 Jun	29	20:08	0°♌	
evening max el	9664 Jul	09	06:41	13°♌33'02	18°23'16
retrograde	9664 Jul	16	18:38	17°♌18'40	
evening set	9664 Jul	18	22:30	17°♌00'44	
inferior conj	9664 Jul	26	10:49	12°♌25'33	0°39'31
minimum elong	9664 Jul	26	12:11	12°♌22'46	0°38'44
desc. node	9664 Jul	28	15:47	10°♌37'14	
min. Earth dist.	9664 Jul	29	19:33	9°♌42'17	0.58334 AU
morning rise	9664 Aug	02	22:22	6°♌58'31	
direct	9664 Aug	09	00:44	5°♌20'49	
morning max el	9664 Aug	23	09:59	13°♌03'20	27°11'46
	9664 Sep	05	19:52	0°♍	
asc. node	9664 Sep	20	11:19	26°♍07'49	
	9664 Sep	22	08:10	0°♎	
morning set	9664 Sep	22	22:18	1°♎14'28	
superior conj	9664 Sep	29	21:44	16°♎29'22	1°22'13
minimum elong	9664 Sep	29	19:39	16°♎17'43	1°22'02
max. Earth dist.	9664 Sep	29	18:26	16°♎11'01	1.31536 AU
	9664 Oct	06	01:13	0°♏	
evening rise	9664 Oct	06	16:25	1°♏21'10	
	9664 Oct	22	01:50	0°♐	
desc. node	9664 Oct	24	13:58	3°♐48'12	
evening max el	9664 Nov	05	09:35	18°♐11'45	26°38'56
retrograde	9664 Nov	19	07:50	25°♐19'31	
evening set	9664 Nov	26	01:30	23°♐26'03	
min. Earth dist.	9664 Nov	29	23:28	20°♐50'06	0.59536 AU
inferior conj	9664 Dec	03	04:02	18°♐19'53	-4°16'43
minimum elong	9664 Dec	03	11:42	18°♐04'45	4°14'12
morning rise	9664 Dec	11	00:30	13°♐42'07	
direct	9664 Dec	13	04:26	13°♐25'10	
asc. node	9664 Dec	17	11:08	14°♐35'12	
morning max el	9664 Dec	20	22:15	17°♐14'09	18°14'19
	9664 Dec	29	23:40	0°♑	
morning set	9665 Jan	05	16:01	12°♑16'39	
superior conj	9665 Jan	15	02:16	29°♑52'07	0°40'40
minimum elong	9665 Jan	15	05:03	0°♒04'43	0°40'34
	9665 Jan	15	04:01	0°♒	
desc. node	9665 Jan	20	13:01	9°♒30'54	
max. Earth dist.	9665 Jan	22	16:53	13°♒12'57	1.41212 AU
evening rise	9665 Jan	27	11:43	21°♒09'57	
	9665 Feb	02	00:50	0°♓	
	9665 Feb	23	01:05	0°♈	
evening max el	9665 Mar	02	11:42	8°♈33'15	23°09'26
retrograde	9665 Mar	12	20:59	14°♈41'59	
asc. node	9665 Mar	15	09:48	14°♈10'41	
evening set	9665 Mar	17	20:05	12°♈38'07	
inferior conj	9665 Mar	23	05:18	6°♈12'06	2°17'16
minimum elong	9665 Mar	23	03:05	6°♈19'45	2°16'38
min. Earth dist.	9665 Mar	22	18:51	6°♈48'15	0.68517 AU
morning rise	9665 Mar	28	10:01	0°♈05'14	
	9665 Mar	28	12:37	30°℞♓	
direct	9665 Apr	01	18:47	28°♓19'38	
	9665 Apr	06	11:16	0°♈	
morning max el	9665 Apr	10	07:56	3°♈15'23	21°10'53
desc. node	9665 Apr	18	13:21	13°♈04'35	
	9665 Apr	30	10:36	0°♉	
morning set	9665 May	11	06:52	16°♉35'42	

max. Earth dist.	9665 May 18 12:24	28°♉10'49	1.42589 AU
	9665 May 19 15:02	0°♊	
superior conj	9665 May 25 18:25	10°♊17'51	-1°59'20
minimum elong	9665 May 26 00:09	10°♊42'21	1°59'16
	9665 Jun 05 22:40	0°♋	
evening rise	9665 Jun 06 06:36	0°♋35'45	
asc. node	9665 Jun 11 08:24	9°♋40'22	
evening max el	9665 Jun 22 17:50	26°♋28'51	18°06'10
retrograde	9665 Jun 29 10:57	29°♋54'16	
evening set	9665 Jul 01 22:41	29°♋26'15	
inferior conj	9665 Jul 08 17:09	24°♋30'57	1°53'47
minimum elong	9665 Jul 08 19:59	24°♋24'14	1°52'36
min. Earth dist.	9665 Jul 11 23:00	21°♋28'22	0.60577 AU
morning rise	9665 Jul 15 14:32	18°♋37'14	
desc. node	9665 Jul 15 12:54	18°♋39'52	
direct	9665 Jul 22 04:21	16°♋29'37	
morning max el	9665 Aug 05 11:37	24°♋27'01	27°51'16
	9665 Aug 10 12:39	0°♌	
	9665 Aug 30 04:13	0°♍	
morning set	9665 Sep 07 02:56	15°♍33'35	
asc. node	9665 Sep 07 08:11	16°♍00'56	
max. Earth dist.	9665 Sep 13 03:17	28°♍28'40	1.31651 AU
	9665 Sep 13 19:51	0°♎	
superior conj	9665 Sep 14 08:48	1°♎11'33	1°05'31
minimum elong	9665 Sep 14 06:34	0°♎59'13	1°05'08
evening rise	9665 Sep 21 02:24	15°♎59'13	
	9665 Sep 27 23:30	0°♏	
desc. node	9665 Oct 11 11:08	21°♏41'47	
evening max el	9665 Oct 18 03:42	29°♏14'43	25°25'17
	9665 Oct 18 23:14	0°♐	
retrograde	9665 Nov 01 01:16	6°♐14'59	
evening set	9665 Nov 06 23:50	4°♐53'55	
min. Earth dist.	9665 Nov 11 15:54	2°♐15'18	0.57502 AU
inferior conj	9665 Nov 14 14:25	0°♐15'02	-5°14'54
minimum elong	9665 Nov 14 20:51	0°♐04'02	5°13'33
	9665 Nov 14 23:12	30°℞♏	
morning rise	9665 Nov 22 20:10	25°♏59'40	
direct	9665 Nov 25 04:13	25°♏43'15	
morning max el	9665 Dec 04 01:30	29°♏59'48	18°58'08
asc. node	9665 Dec 04 08:08	0°♐16'00	
	9665 Dec 04 01:35	0°♐	
morning set	9665 Dec 20 14:41	26°♐36'06	
	9665 Dec 22 08:00	0°♑	
superior conj	9665 Dec 29 00:22	13°♑02'54	1°07'35
minimum elong	9665 Dec 29 03:33	13°♑18'07	1°07'31
max. Earth dist.	9666 Jan 04 23:22	25°♑54'48	1.39046 AU
desc. node	9666 Jan 07 09:57	0°♒12'46	
	9666 Jan 07 07:01	0°♒	
evening rise	9666 Jan 08 20:00	2°♒39'38	
	9666 Jan 26 05:54	0°♓	
evening max el	9666 Feb 13 01:32	22°♓21'29	24°29'07
retrograde	9666 Feb 24 12:54	29°♓04'06	
evening set	9666 Mar 02 00:11	26°♓47'11	
asc. node	9666 Mar 02 06:57	26°♓32'26	
min. Earth dist.	9666 Mar 06 14:45	21°♓32'08	0.68128 AU
inferior conj	9666 Mar 07 12:55	20°♓17'58	1°37'46
minimum elong	9666 Mar 07 10:56	20°♓24'35	1°37'11
morning rise	9666 Mar 12 21:49	14°♓18'03	
direct	9666 Mar 16 17:42	12°♓54'09	
morning max el	9666 Mar 24 06:42	17°♓07'59	19°58'13
	9666 Apr 03 12:43	0°♈	
desc. node	9666 Apr 05 10:11	2°♈42'42	
morning set	9666 Apr 20 06:10	24°♈59'59	
	9666 Apr 23 11:43	0°♉	

max. Earth dist.	9666 Apr 30 22:34	11°♉43'15	1.44255 AU
superior conj	9666 May 06 07:57	20°♉24'03	-2°12'11
minimum elong	9666 May 06 09:32	20°♉30'28	2°12'25
	9666 May 12 03:39	0°♊	
evening rise	9666 May 19 12:50	12°♊30'27	
asc. node	9666 May 29 05:27	28°♊49'57	
	9666 May 29 23:08	0°♋	
evening max el	9666 Jun 06 07:25	9°♋46'06	18°08'10
retrograde	9666 Jun 12 16:36	13°♋06'31	
evening set	9666 Jun 15 12:05	12°♋25'51	
inferior conj	9666 Jun 21 16:25	7°♋11'36	2°42'25
minimum elong	9666 Jun 21 18:59	7°♋04'43	2°41'31
min. Earth dist.	9666 Jun 24 11:13	4°♋13'22	0.62804 AU
morning rise	9666 Jun 28 00:09	1°♋01'48	
	9666 Jun 29 13:26	30°℞♊	
desc. node	9666 Jul 02 09:58	28°♊48'39	
direct	9666 Jul 04 17:52	28°♊31'08	
	9666 Jul 10 07:41	0°♋	
morning max el	9666 Jul 18 18:39	6°♋33'39	27°52'25
	9666 Aug 05 14:33	0°♌	
morning set	9666 Aug 22 01:16	29°♌31'48	
	9666 Aug 22 06:51	0°♍	
asc. node	9666 Aug 25 05:04	6°♍02'23	
max. Earth dist.	9666 Aug 27 07:47	10°♍31'29	1.32258 AU
superior conj	9666 Aug 29 17:16	15°♍42'12	0°43'56
minimum elong	9666 Aug 29 15:25	15°♍32'06	0°43'27
	9666 Sep 05 06:39	0°♎	
evening rise	9666 Sep 05 13:52	0°♎38'45	
	9666 Sep 21 15:36	0°♏	
desc. node	9666 Sep 28 08:19	8°♏18'01	
evening max el	9666 Sep 29 15:28	9°♏36'14	23°50'13
retrograde	9666 Oct 13 05:53	16°♏24'07	
evening set	9666 Oct 17 21:28	15°♏36'56	
min. Earth dist.	9666 Oct 24 01:54	12°♏37'12	0.55832 AU
inferior conj	9666 Oct 26 04:23	11°♏21'15	-5°41'38
minimum elong	9666 Oct 26 04:56	11°♏20'26	5°41'25
morning rise	9666 Nov 03 14:21	7°♏25'30	
direct	9666 Nov 06 08:48	7°♏06'09	
morning max el	9666 Nov 16 16:43	11°♏58'59	20°04'33
asc. node	9666 Nov 21 05:07	17°♏08'52	
	9666 Nov 29 03:21	0°♐	
morning set	9666 Dec 04 19:59	11°♐12'01	
superior conj	9666 Dec 12 12:27	26°♐52'23	1°26'04
minimum elong	9666 Dec 12 14:57	27°♐04'51	1°26'11
	9666 Dec 14 02:09	0°♑	
max. Earth dist.	9666 Dec 18 06:02	8°♑03'00	1.36891 AU
evening rise	9666 Dec 22 00:37	15°♑01'44	
desc. node	9666 Dec 25 06:56	20°♑48'35	
	9666 Dec 30 18:14	0°♒	
	9667 Jan 20 22:21	0°♓	
evening max el	9667 Jan 26 14:53	6°♓10'32	25°42'12
retrograde	9667 Feb 08 00:08	13°♓16'38	
evening set	9667 Feb 13 23:49	10°♓49'11	
asc. node	9667 Feb 17 04:06	7°♓32'53	
min. Earth dist.	9667 Feb 18 07:27	6°♓09'01	0.67334 AU
inferior conj	9667 Feb 19 17:17	4°♓21'35	0°49'30
minimum elong	9667 Feb 19 16:06	4°♓25'23	0°49'13
	9667 Feb 23 12:01	30°℞♒	
morning rise	9667 Feb 25 08:52	28°♒30'29	
direct	9667 Feb 28 17:01	27°♒26'33	
	9667 Mar 06 06:28	0°♓	
morning max el	9667 Mar 07 13:18	1°♓10'49	19°00'30
greatest brilliancy	9667 Mar 21 05:32	19°♓35'38	-0.8m
desc. node	9667 Mar 23 07:02	22°♓44'28	

	9667 Mar 28 00:00	0°♈	
morning set	9667 Mar 30 10:45	3°♈47'40	
max. Earth dist.	9667 Apr 13 14:59	25°♈53'45	1.45293 AU
superior conj	9667 Apr 15 23:25	29°♈35'46	-2°06'42
minimum elong	9667 Apr 15 17:45	29°♈13'25	2°06'37
	9667 Apr 16 05:34	0°♉	
evening rise	9667 Apr 30 20:28	23°♉27'08	
	9667 May 04 20:46	0°♊	
asc. node	9667 May 16 02:31	17°♊30'54	
evening max el	9667 May 20 20:17	23°♊16'44	18°28'27
retrograde	9667 May 27 07:14	26°♊46'16	
evening set	9667 May 30 10:22	25°♊51'28	
inferior conj	9667 Jun 05 04:32	20°♊19'57	3°09'37
minimum elong	9667 Jun 05 06:02	20°♊15'30	3°09'05
min. Earth dist.	9667 Jun 07 08:48	17°♊45'07	0.64786 AU
morning rise	9667 Jun 11 00:46	14°♊02'16	
direct	9667 Jun 17 15:31	11°♊19'14	
desc. node	9667 Jun 19 07:01	11°♊28'17	
morning max el	9667 Jul 01 04:50	19°♊16'23	27°18'26
	9667 Jul 10 07:20	0°♋	
	9667 Jul 29 14:45	0°♌	
morning set	9667 Aug 05 14:45	13°♌02'23	
max. Earth dist.	9667 Aug 10 04:26	22°♌11'49	1.33359 AU
asc. node	9667 Aug 12 01:58	26°♌08'03	
superior conj	9667 Aug 13 21:08	29°♌55'34	0°17'53
minimum elong	9667 Aug 13 20:14	29°♌50'52	0°17'30
	9667 Aug 13 21:58	0°♍	
evening rise	9667 Aug 21 00:59	15°♍14'22	
	9667 Aug 28 09:42	0°♎	
evening max el	9667 Sep 11 03:57	19°♎46'06	22°10'27
desc. node	9667 Sep 15 05:31	23°♎09'11	
retrograde	9667 Sep 23 22:52	26°♎08'13	
evening set	9667 Sep 27 02:55	25°♎45'55	
min. Earth dist.	9667 Oct 05 09:23	22°♎08'28	0.54826 AU
inferior conj	9667 Oct 06 01:57	21°♎45'11	-5°17'30
minimum elong	9667 Oct 05 18:44	21°♎55'19	5°16'15
morning rise	9667 Oct 14 12:09	17°♎57'58	
direct	9667 Oct 17 21:29	17°♎32'27	
morning max el	9667 Oct 29 18:37	23°♎08'21	21°32'40
	9667 Nov 04 17:20	0°♏	
asc. node	9667 Nov 08 02:04	4°♏58'44	
morning set	9667 Nov 19 05:21	25°♏57'19	
	9667 Nov 21 03:32	0°♐	
superior conj	9667 Nov 26 10:34	11°♐09'33	1°36'45
minimum elong	9667 Nov 26 11:53	11°♐16'25	1°37'01
max. Earth dist.	9667 Nov 30 17:30	19°♐56'14	1.34966 AU
evening rise	9667 Dec 04 22:12	28°♐07'47	
	9667 Dec 05 21:58	0°♑	
desc. node	9667 Dec 12 03:58	11°♑14'01	
	9667 Dec 24 00:39	0°♒	
evening max el	9668 Jan 09 04:15	19°♒54'03	26°41'25
retrograde	9668 Jan 22 05:59	27°♒13'00	
evening set	9668 Jan 28 17:11	24°♒39'01	
min. Earth dist.	9668 Feb 01 18:43	20°♒33'25	0.66155 AU
inferior conj	9668 Feb 03 16:22	18°♒18'38	-0°07'21
minimum elong	9668 Feb 03 16:34	18°♒18'04	0°07'01
transit middle	9668 Feb 03 16:34	18°♒18'04	0°07'01
transit begin	9668 Feb 03 13:56	18°♒25'52	
transit end	9668 Feb 03 19:12	18°♒10'16	
asc. node	9668 Feb 04 01:15	17°♒52'27	
morning rise	9668 Feb 09 16:59	12°♒38'31	
direct	9668 Feb 12 14:50	11°♒51'30	
morning max el	9668 Feb 19 02:17	15°♒18'52	18°19'05
	9668 Feb 29 22:43	0°♓	

desc. node	9668 Mar 09 03:53	13°♓03'17	
morning set	9668 Mar 09 15:59	13°♓51'45	
	9668 Mar 19 19:40	0°♈	
superior conj	9668 Mar 25 05:02	8°♈27'54	-1°41'11
minimum elong	9668 Mar 24 19:27	7°♈50'24	1°40'19
max. Earth dist.	9668 Mar 26 10:29	10°♈23'07	1.45604 AU
	9668 Apr 07 23:37	0°♉	
evening rise	9668 Apr 10 04:40	3°♉27'48	
greatest brilliancy	9668 Apr 20 21:17	20°♉07'58	-0.8m
	9668 Apr 27 14:11	0°♊	
asc. node	9668 May 01 23:39	5°♊33'29	
evening max el	9668 May 03 05:52	6°♊54'02	19°06'12
retrograde	9668 May 10 03:12	10°♊45'19	
evening set	9668 May 13 14:15	9°♊35'39	
inferior conj	9668 May 19 01:51	3°♊48'31	3°19'44
minimum elong	9668 May 19 02:06	3°♊47'43	3°19'24
min. Earth dist.	9668 May 20 14:56	1°♊49'41	0.66394 AU
	9668 May 22 02:53	30°℞♉	
morning rise	9668 May 24 13:27	27°♉28'35	
direct	9668 May 30 20:11	24°♉44'23	
desc. node	9668 Jun 05 04:03	26°♉19'32	
	9668 Jun 10 03:46	0°♊	
morning max el	9668 Jun 12 15:34	2°♊22'48	26°16'21
	9668 Jul 03 11:36	0°♋	
morning set	9668 Jul 18 15:53	25°♋55'24	
	9668 Jul 20 19:41	0°♌	
max. Earth dist.	9668 Jul 22 14:29	3°♌26'38	1.34943 AU
superior conj	9668 Jul 27 17:53	13°♌44'11	-0°11'57
minimum elong	9668 Jul 27 18:35	13°♌47'46	0°12'05
behind sun begin	9668 Jul 27 14:37	13°♌27'27	
behind sun end	9668 Jul 27 22:33	14°♌08'07	
asc. node	9668 Jul 28 22:53	16°♌13'19	
evening rise	9668 Aug 04 09:39	29°♌39'12	
	9668 Aug 04 13:40	0°♍	
	9668 Aug 22 18:11	0°♎	
evening max el	9668 Aug 23 02:05	0°♎19'49	20°41'25
desc. node	9668 Sep 01 02:44	5°♎44'08	
retrograde	9668 Sep 03 11:01	5°♎58'10	
evening set	9668 Sep 05 14:13	5°♎47'05	
inferior conj	9668 Sep 14 18:20	1°♎50'35	-3°58'17
minimum elong	9668 Sep 14 08:41	2°♎04'25	3°55'23
min. Earth dist.	9668 Sep 15 18:02	1°♎16'33	0.54708 AU
	9668 Sep 18 01:11	30°℞♍	
morning rise	9668 Sep 23 03:00	27°♍51'22	
direct	9668 Sep 27 05:31	27°♍15'14	
	9668 Oct 05 19:55	0°♎	
morning max el	9668 Oct 10 10:06	3°♎36'25	23°16'13
asc. node	9668 Oct 24 23:01	23°♎31'55	
	9668 Oct 28 10:18	0°♏	
morning set	9668 Nov 02 16:46	10°♏46'01	
superior conj	9668 Nov 09 15:31	25°♏44'51	1°40'27
minimum elong	9668 Nov 09 15:35	25°♏45'15	1°40'44
	9668 Nov 11 15:16	0°♐	
max. Earth dist.	9668 Nov 12 12:40	1°♐53'03	1.33417 AU
evening rise	9668 Nov 17 08:59	11°♐48'33	
	9668 Nov 27 05:20	0°♑	
desc. node	9668 Nov 28 01:03	1°♑23'41	
	9668 Dec 18 09:54	0°♒	
evening max el	9668 Dec 21 17:06	3°♒22'53	27°19'33
retrograde	9669 Jan 04 05:54	10°♒45'14	
evening set	9669 Jan 11 02:08	8°♒11'07	
min. Earth dist.	9669 Jan 14 22:33	4°♒38'24	0.64622 AU
inferior conj	9669 Jan 17 07:48	2°♒04'02	-1°12'06
minimum elong	9669 Jan 17 10:00	1°♒58'05	1°10'52

	9669 Jan 19 07:13	30℞♑	
asc. node	9669 Jan 20 22:23	28°♑29'42	
morning rise	9669 Jan 23 19:33	26°♑37'23	
direct	9669 Jan 26 08:54	26°♑03'35	
morning max el	9669 Feb 01 19:02	29°♑25'07	17°54'31
	9669 Feb 02 08:45	0°♒	
morning set	9669 Feb 19 02:29	25°♒22'21	
	9669 Feb 21 21:02	0°♓	
desc. node	9669 Feb 24 00:44	3°♓34'19	
superior conj	9669 Mar 04 19:41	17°♓51'52	-1°01'40
minimum elong	9669 Mar 04 12:48	17°♓24'19	1°00'39
max. Earth dist.	9669 Mar 09 05:53	24°♓53'14	1.45171 AU
	9669 Mar 12 12:07	0°♈	
evening rise	9669 Mar 20 19:52	12°♈52'58	
	9669 Apr 01 02:27	0°♉	
greatest brilliancy	9669 Apr 04 15:09	5°♉12'48	-0.6m
evening max el	9669 Apr 16 10:34	20°♉34'37	19°59'56
asc. node	9669 Apr 18 20:48	22°♉46'12	
retrograde	9669 Apr 24 01:34	24°♉58'12	
evening set	9669 Apr 27 21:21	23°♉33'13	
inferior conj	9669 May 03 05:23	17°♉32'17	3°16'06
minimum elong	9669 May 03 04:31	17°♉35'11	3°15'47
min. Earth dist.	9669 May 04 03:57	16°♉16'03	0.67569 AU
morning rise	9669 May 08 11:23	11°♉13'41	
direct	9669 May 14 06:51	8°♉38'16	
desc. node	9669 May 23 01:00	12°♉52'36	
morning max el	9669 May 26 01:17	15°♉41'58	24°55'35
	9669 Jun 06 19:51	0°♊	
	9669 Jun 26 09:35	0°♋	
morning set	9669 Jul 01 00:17	7°♋59'41	
max. Earth dist.	9669 Jul 04 14:42	14°♋30'19	1.36945 AU
superior conj	9669 Jul 11 04:34	27°♋01'01	-0°44'13
minimum elong	9669 Jul 11 07:22	27°♋14'44	0°44'02
	9669 Jul 12 16:53	0°♌	
asc. node	9669 Jul 15 19:50	6°♌14'43	
evening rise	9669 Jul 19 13:36	13°♌47'18	
	9669 Jul 28 02:38	0°♍	
evening max el	9669 Aug 05 13:53	11°♍37'53	19°31'16
retrograde	9669 Aug 15 05:48	16°♍25'00	
evening set	9669 Aug 17 01:57	16°♍15'21	
desc. node	9669 Aug 18 23:55	15°♍46'08	
inferior conj	9669 Aug 25 20:04	12°♍10'13	-2°06'28
minimum elong	9669 Aug 25 14:22	12°♍19'19	2°04'27
min. Earth dist.	9669 Aug 28 05:50	10°♍38'19	0.55542 AU
morning rise	9669 Sep 03 00:20	7°♍40'36	
direct	9669 Sep 07 22:22	6°♍46'16	
morning max el	9669 Sep 21 21:50	13°♍46'44	25°01'51
	9669 Oct 04 14:53	0°♎	
asc. node	9669 Oct 11 19:55	12°♎37'36	
morning set	9669 Oct 18 04:27	25°♎32'53	
	9669 Oct 20 05:57	0°♏	
superior conj	9669 Oct 25 00:43	10°♏30'23	1°37'51
minimum elong	9669 Oct 24 23:42	10°♏24'48	1°38'01
max. Earth dist.	9669 Oct 26 15:30	14°♏02'39	1.32320 AU
evening rise	9669 Nov 01 05:37	25°♏55'05	
	9669 Nov 03 05:58	0°♐	
desc. node	9669 Nov 14 22:09	21°♐10'13	
	9669 Nov 20 15:43	0°♑	
evening max el	9669 Dec 04 03:55	16°♑25'09	27°29'53
retrograde	9669 Dec 17 22:54	23°♑43'27	
evening set	9669 Dec 24 23:50	21°♑17'37	
min. Earth dist.	9669 Dec 28 17:01	18°♑13'51	0.62791 AU
inferior conj	9669 Dec 31 12:42	15°♑30'21	-2°23'07
minimum elong	9669 Dec 31 17:22	15°♑19'03	2°20'55

morning rise	9670 Jan 07 13:08	10°♑19'59	
asc. node	9670 Jan 07 19:30	10°♑14'43	
direct	9670 Jan 09 20:16	9°♑55'29	
morning max el	9670 Jan 16 12:28	13°♑20'45	17°47'22
	9670 Jan 27 22:43	0°♒	
morning set	9670 Feb 01 13:24	8°♒03'00	
desc. node	9670 Feb 10 21:35	24°♒12'51	
superior conj	9670 Feb 13 08:31	28°♒20'18	-0°18'14
minimum elong	9670 Feb 13 06:41	28°♒12'39	0°17'43
	9670 Feb 14 08:30	0°♓	
max. Earth dist.	9670 Feb 19 23:00	9°♓08'31	1.44053 AU
evening rise	9670 Feb 28 07:51	22°♓18'31	
	9670 Mar 05 08:42	0°♈	
	9670 Mar 26 14:14	0°♉	
evening max el	9670 Mar 30 09:42	4°♉16'17	21°07'02
asc. node	9670 Apr 05 17:59	8°♉54'01	
retrograde	9670 Apr 08 00:04	9°♉19'17	
evening set	9670 Apr 12 05:39	7°♉38'50	
inferior conj	9670 Apr 17 12:35	1°♉26'07	3°01'02
minimum elong	9670 Apr 17 10:54	1°♉31'56	3°00'35
min. Earth dist.	9670 Apr 17 21:39	0°♉54'40	0.68289 AU
	9670 Apr 18 13:30	30℞♈	
morning rise	9670 Apr 22 15:56	25°♈11'05	
direct	9670 Apr 27 22:20	22°♈51'57	
morning max el	9670 May 08 10:41	29°♈07'46	23°26'24
	9670 May 09 06:57	0°♉	
desc. node	9670 May 09 21:54	0°♉39'50	
	9670 May 31 14:11	0°♊	
morning set	9670 Jun 12 10:38	19°♊01'12	
max. Earth dist.	9670 Jun 16 10:59	25°♊54'16	1.39194 AU
	9670 Jun 18 18:45	0°♋	
superior conj	9670 Jun 24 01:25	9°♋37'00	-1°16'44
minimum elong	9670 Jun 24 06:24	10°♋00'14	1°16'21
asc. node	9670 Jul 02 16:50	26°♋08'16	
evening rise	9670 Jul 03 09:57	27°♋31'10	
	9670 Jul 04 16:47	0°♌	
evening max el	9670 Jul 19 13:47	23°♌41'03	18°42'09
retrograde	9670 Jul 27 17:26	27°♌44'45	
evening set	9670 Jul 29 17:30	27°♌30'55	
desc. node	9670 Aug 05 21:03	23°♌44'34	
inferior conj	9670 Aug 06 17:07	23°♌07'36	-0°15'22
minimum elong	9670 Aug 06 16:30	23°♌08'46	0°15'22
transit middle	9670 Aug 06 16:30	23°♌08'46	0°15'22
transit begin	9670 Aug 06 15:24	23°♌10'48	
transit end	9670 Aug 06 17:36	23°♌06'43	
min. Earth dist.	9670 Aug 09 22:00	20°♌45'49	0.57164 AU
morning rise	9670 Aug 14 12:04	18°♌00'54	
direct	9670 Aug 20 05:21	16°♌40'30	
morning max el	9670 Sep 03 12:45	24°♌09'43	26°32'28
	9670 Sep 08 20:41	0°♍	
	9670 Sep 27 15:09	0°♎	
asc. node	9670 Sep 28 16:49	2°♎07'20	
morning set	9670 Oct 02 14:48	10°♎13'34	
superior conj	9670 Oct 09 12:08	25°♎19'41	1°29'30
minimum elong	9670 Oct 09 10:19	25°♎09'38	1°29'27
max. Earth dist.	9670 Oct 09 23:41	26°♎23'50	1.31692 AU
	9670 Oct 11 14:44	0°♏	
evening rise	9670 Oct 16 09:18	10°♏19'47	
	9670 Oct 26 12:13	0°♐	
desc. node	9670 Nov 01 19:16	10°♐24'19	
evening max el	9670 Nov 16 10:11	28°♐48'13	27°07'22
	9670 Nov 17 17:44	0°♑	
retrograde	9670 Nov 30 07:39	5°♑59'00	
evening set	9670 Dec 07 06:43	3°♑51'07	

min. Earth dist.	9670 Dec 11 00:50	1°♑08'31	0.60755 AU
	9670 Dec 12 09:32	30°℞♐	
inferior conj	9670 Dec 14 03:48	28°♐29'14	-3°36'22
minimum elong	9670 Dec 14 10:45	28°♐14'25	3°33'41
morning rise	9670 Dec 21 17:17	23°♐38'27	
direct	9670 Dec 23 21:20	23°♐19'37	
asc. node	9670 Dec 25 16:32	23°♐33'06	
morning max el	9670 Dec 31 03:15	26°♐57'16	17°58'44
	9671 Jan 02 19:44	0°♑	
morning set	9671 Jan 15 18:16	21°♑34'19	
	9671 Jan 20 08:25	0°♒	
superior conj	9671 Jan 25 22:33	10°♒00'30	0°21'18
minimum elong	9671 Jan 26 00:17	10°♒08'10	0°21'19
desc. node	9671 Jan 28 18:29	14°♒55'36	
max. Earth dist.	9671 Feb 02 12:18	22°♒55'45	1.42372 AU
	9671 Feb 06 20:22	0°♓	
evening rise	9671 Feb 08 07:28	2°♓20'10	
	9671 Feb 26 19:09	0°♈	
evening max el	9671 Mar 13 03:51	17°♈59'28	22°23'25
retrograde	9671 Mar 22 21:00	23°♈44'25	
asc. node	9671 Mar 23 15:08	23°♈41'35	
evening set	9671 Mar 27 13:31	21°♈48'43	
inferior conj	9671 Apr 01 21:24	15°♈26'45	2°35'56
minimum elong	9671 Apr 01 19:16	15°♈34'11	2°35'21
min. Earth dist.	9671 Apr 01 17:51	15°♈39'06	0.68562 AU
morning rise	9671 Apr 07 00:53	9°♈16'44	
direct	9671 Apr 11 17:32	7°♈18'22	
morning max el	9671 Apr 20 22:55	12°♈41'49	21°58'11
desc. node	9671 Apr 26 18:47	19°♈21'00	
	9671 May 04 17:14	0°♉	
morning set	9671 May 23 18:26	28°♉48'59	
	9671 May 24 12:05	0°♊	
max. Earth dist.	9671 May 29 10:40	8°♊06'28	1.41426 AU
superior conj	9671 Jun 06 03:53	21°♊20'58	-1°45'58
minimum elong	9671 Jun 06 10:05	21°♊48'20	1°45'42
	9671 Jun 10 23:44	0°♋	
evening rise	9671 Jun 16 19:05	10°♋41'13	
asc. node	9671 Jun 19 13:50	15°♋49'05	
	9671 Jun 27 21:04	0°♌	
evening max el	9671 Jul 02 21:56	6°♌20'17	18°13'36
retrograde	9671 Jul 10 00:20	9°♌55'22	
evening set	9671 Jul 12 07:37	9°♌33'24	
inferior conj	9671 Jul 19 11:55	4°♌49'14	1°14'19
minimum elong	9671 Jul 19 14:11	4°♌44'18	1°13'14
min. Earth dist.	9671 Jul 22 20:35	1°♌55'11	0.59272 AU
desc. node	9671 Jul 23 18:11	1°♌11'51	
	9671 Jul 25 09:30	30°℞♋	
morning rise	9671 Jul 26 17:34	29°♋09'48	
direct	9671 Aug 02 01:40	27°♋19'17	
	9671 Aug 10 03:06	0°♌	
morning max el	9671 Aug 16 10:27	5°♌08'18	27°33'18
	9671 Sep 03 20:41	0°♍	
asc. node	9671 Sep 15 13:41	21°♍53'34	
morning set	9671 Sep 16 22:04	24°♍42'06	
	9671 Sep 19 09:39	0°♎	
superior conj	9671 Sep 23 23:49	10°♎05'54	1°15'46
minimum elong	9671 Sep 23 21:36	9°♎53'37	1°15'28
max. Earth dist.	9671 Sep 23 09:31	8°♎46'33	1.31534 AU
evening rise	9671 Sep 30 17:34	24°♎54'38	
	9671 Oct 03 03:36	0°♏	
desc. node	9671 Oct 19 16:25	28°♏52'10	
	9671 Oct 20 11:59	0°♐	
evening max el	9671 Oct 29 08:59	10°♐20'23	26°10'56
retrograde	9671 Nov 12 06:52	17°♐24'22	
evening set	9671 Nov 18 18:13	15°♐43'51	
min. Earth dist.	9671 Nov 22 21:58	13°♐09'12	0.58657 AU
inferior conj	9671 Nov 26 01:28	10°♐49'53	-4°43'54
minimum elong	9671 Nov 26 09:06	10°♐35'44	4°41'45
morning rise	9671 Dec 04 02:26	6°♐21'37	
direct	9671 Dec 06 07:37	6°♐05'10	
asc. node	9671 Dec 12 13:33	8°♐24'57	
morning max el	9671 Dec 14 11:46	10°♐04'19	18°30'16
	9671 Dec 27 12:29	0°♑	
morning set	9671 Dec 30 11:37	5°♑39'35	
superior conj	9672 Jan 08 10:23	22°♑42'26	0°53'09
minimum elong	9672 Jan 08 13:31	22°♑56'57	0°53'02
	9672 Jan 12 10:28	0°♒	
desc. node	9672 Jan 15 15:24	5°♒38'44	
max. Earth dist.	9672 Jan 15 20:57	6°♒02'49	1.40309 AU
evening rise	9672 Jan 20 03:06	13°♒16'00	
	9672 Jan 30 16:11	0°♓	
	9672 Feb 22 01:56	0°♈	
evening max el	9672 Feb 23 18:33	1°♈45'14	23°43'41
retrograde	9672 Mar 05 15:04	8°♈09'16	
asc. node	9672 Mar 09 12:16	6°♈57'16	
evening set	9672 Mar 10 19:26	5°♈59'20	
min. Earth dist.	9672 Mar 15 14:26	0°♈24'33	0.68401 AU
	9672 Mar 15 21:38	30°℞♓	
inferior conj	9672 Mar 16 05:58	29°♓31'28	2°01'36
minimum elong	9672 Mar 16 03:48	29°♓38'54	2°00'57
morning rise	9672 Mar 21 12:11	23°♓27'40	
direct	9672 Mar 25 15:20	21°♓51'32	
morning max el	9672 Apr 02 17:22	26°♓27'48	20°38'24
	9672 Apr 05 22:56	0°♈	
desc. node	9672 Apr 12 15:39	8°♈41'34	
	9672 Apr 27 04:07	0°♉	
morning set	9672 May 02 01:46	7°♉32'23	
max. Earth dist.	9672 May 10 17:05	21°♉12'40	1.43358 AU
	9672 May 16 01:54	0°♊	
superior conj	9672 May 17 07:34	2°♊03'38	-2°06'41
minimum elong	9672 May 17 12:06	2°♊22'35	2°06'46
evening rise	9672 May 29 12:34	23°♊07'00	
	9672 Jun 02 10:29	0°♋	
asc. node	9672 Jun 05 10:51	5°♋12'13	
evening max el	9672 Jun 15 10:30	19°♋26'15	18°04'43
retrograde	9672 Jun 21 23:07	22°♋48'11	
evening set	9672 Jun 24 14:05	22°♋15'05	
inferior conj	9672 Jul 01 02:01	17°♋11'18	2°17'18
minimum elong	9672 Jul 01 04:54	17°♋04'06	2°16'12
min. Earth dist.	9672 Jul 04 03:44	14°♋07'56	0.61533 AU
morning rise	9672 Jul 07 17:23	11°♋09'17	
desc. node	9672 Jul 09 15:16	10°♋01'13	
direct	9672 Jul 14 09:30	8°♋51'01	
morning max el	9672 Jul 28 14:56	16°♋51'59	27°56'29
	9672 Aug 08 11:35	0°♌	
	9672 Aug 26 13:08	0°♍	
morning set	9672 Aug 31 00:20	8°♍53'38	
asc. node	9672 Sep 01 10:35	11°♍51'09	
max. Earth dist.	9672 Sep 05 17:11	21°♍00'16	1.31853 AU
superior conj	9672 Sep 07 10:01	24°♍44'00	0°56'57
minimum elong	9672 Sep 07 07:52	24°♍32'14	0°56'30
	9672 Sep 09 19:19	0°♎	
evening rise	9672 Sep 14 04:25	9°♎34'09	
	9672 Sep 24 13:39	0°♏	
desc. node	9672 Oct 05 13:35	16°♏16'01	
evening max el	9672 Oct 09 23:39	21°♏02'36	24°46'21
retrograde	9672 Oct 23 19:10	27°♏59'12	
evening set	9672 Oct 29 06:02	26°♏52'35	

min. Earth dist.	9672 Nov 03	10:57	24°♏07'20	0.56735 AU
inferior conj	9672 Nov 06	03:04	22°♏24'09	-5°31'17
minimum elong	9672 Nov 06	07:34	22°♏16'53	5°30'34
morning rise	9672 Nov 14	11:21	18°♏18'17	
direct	9672 Nov 16	23:03	18°♏01'06	
morning max el	9672 Nov 26	10:20	22°♏31'38	19°23'38
asc. node	9672 Nov 28	10:33	24°♏38'27	
	9672 Dec 02	11:25	0°♐	
morning set	9672 Dec 13	13:26	20°♐06'59	
	9672 Dec 18	11:43	0°♑	
superior conj	9672 Dec 21	15:00	6°♑11'35	1°16'25
minimum elong	9672 Dec 21	17:59	6°♑26'07	1°16'26
max. Earth dist.	9672 Dec 28	02:45	18°♑27'56	1.38111 AU
evening rise	9672 Dec 31	20:20	25°♑08'42	
desc. node	9673 Jan 01	12:21	26°♑18'35	
	9673 Jan 03	15:53	0°♒	
	9673 Jan 23	07:44	0°♓	
evening max el	9673 Feb 05	07:49	15°♓33'33	25°01'26
retrograde	9673 Feb 17	05:15	22°♓28'14	
evening set	9673 Feb 22	21:50	20°♓06'12	
asc. node	9673 Feb 24	09:26	18°♓41'26	
min. Earth dist.	9673 Feb 27	09:13	15°♓06'06	0.67832 AU
inferior conj	9673 Feb 28	12:26	13°♓36'48	1°18'21
minimum elong	9673 Feb 28	10:43	13°♓42'26	1°17'51
morning rise	9673 Mar 05	23:54	7°♓40'32	
direct	9673 Mar 09	14:32	6°♓25'39	
morning max el	9673 Mar 16	19:39	10°♓25'38	19°31'45
greatest brilliancy	9673 Mar 29	12:30	27°♓01'50	-0.7m
desc. node	9673 Mar 30	12:30	28°♓30'40	
	9673 Mar 31	12:29	0°♈	
morning set	9673 Apr 11	00:09	15°♈57'34	
	9673 Apr 20	01:06	0°♉	
max. Earth dist.	9673 Apr 23	05:50	5°♉01'59	1.44771 AU
superior conj	9673 Apr 27	10:50	11°♉43'42	-2°12'22
minimum elong	9673 Apr 27	09:26	11°♉38'05	2°12'34
	9673 May 08	15:11	0°♊	
evening rise	9673 May 11	09:35	4°♊37'25	
asc. node	9673 May 23	07:55	24°♊10'40	
	9673 May 27	11:55	0°♋	
evening max el	9673 May 30	00:04	2°♋49'40	18°14'39
retrograde	9673 Jun 05	09:05	6°♋12'37	
evening set	9673 Jun 08	07:41	5°♋26'16	
inferior conj	9673 Jun 14	07:15	0°♋04'38	2°56'18
minimum elong	9673 Jun 14	09:25	29°♊58'33	2°55'33
	9673 Jun 14	08:54	30°℞♊	
min. Earth dist.	9673 Jun 16	20:10	27°♊14'04	0.63679 AU
morning rise	9673 Jun 20	09:43	23°♊50'21	
desc. node	9673 Jun 26	12:21	21°♊14'00	
direct	9673 Jun 27	02:52	21°♊12'47	
morning max el	9673 Jul 10	23:46	29°♊15'34	27°41'56
	9673 Jul 11	17:09	0°♋	
	9673 Aug 02	09:43	0°♌	
morning set	9673 Aug 14	19:18	22°♌41'18	
	9673 Aug 18	09:28	0°♍	
asc. node	9673 Aug 19	07:29	1°♍55'03	
max. Earth dist.	9673 Aug 19	18:36	2°♍53'30	1.32659 AU
superior conj	9673 Aug 22	16:48	9°♍08'08	0°33'24
minimum elong	9673 Aug 22	15:17	8°♍59'57	0°32'57
evening rise	9673 Aug 29	15:58	24°♍12'31	
	9673 Sep 01	10:08	0°♎	
	9673 Sep 20	04:52	0°♏	
evening max el	9673 Sep 21	10:35	1°♏15'08	23°07'24
desc. node	9673 Sep 22	10:45	2°♏11'49	
retrograde	9673 Oct 04	19:05	7°♏54'50	
evening set	9673 Oct 08	18:56	7°♏20'02	
min. Earth dist.	9673 Oct 15	19:48	4°♏05'50	0.55302 AU
inferior conj	9673 Oct 17	09:16	3°♏11'31	-5°38'30
minimum elong	9673 Oct 17	06:20	3°♏15'46	5°38'08
	9673 Oct 23	16:35	30°℞♎	
morning rise	9673 Oct 25	19:38	29°♎21'11	
direct	9673 Oct 28	19:43	28°♎59'47	
	9673 Nov 02	16:36	0°♏	
morning max el	9673 Nov 08	20:02	4°♏10'51	20°39'32
asc. node	9673 Nov 15	07:33	11°♏58'02	
	9673 Nov 25	12:12	0°♐	
morning set	9673 Nov 27	20:47	4°♐48'17	
superior conj	9673 Dec 05	07:51	20°♐15'02	1°31'29
minimum elong	9673 Dec 05	09:53	20°♐25'21	1°31'41
	9673 Dec 10	05:10	0°♑	
max. Earth dist.	9673 Dec 10	10:37	0°♑26'28	1.36033 AU
evening rise	9673 Dec 14	08:44	7°♑51'51	
desc. node	9673 Dec 19	09:21	16°♑51'13	
	9673 Dec 27	09:11	0°♒	
evening max el	9674 Jan 18	21:10	29°♒21'52	26°09'31
	9674 Jan 19	13:07	0°♓	
retrograde	9674 Jan 31	14:29	6°♓35'23	
evening set	9674 Feb 06	19:05	4°♓04'40	
	9674 Feb 10	17:08	30°℞♒	
min. Earth dist.	9674 Feb 11	00:03	29°♒39'03	0.66875 AU
asc. node	9674 Feb 11	06:35	29°♒19'05	
inferior conj	9674 Feb 12	14:52	27°♒39'08	0°26'27
minimum elong	9674 Feb 12	14:11	27°♒41'15	0°26'22
morning rise	9674 Feb 18	10:00	21°♒52'13	
direct	9674 Feb 21	13:30	20°♒55'59	
morning max el	9674 Feb 28	05:13	24°♒31'59	18°40'45
	9674 Mar 04	20:52	0°♓	
desc. node	9674 Mar 17	09:23	18°♓40'53	
morning set	9674 Mar 21	13:39	25°♓13'42	
	9674 Mar 24	14:40	0°♈	
max. Earth dist.	9674 Apr 05	23:22	19°♈20'52	1.45519 AU
superior conj	9674 Apr 06	20:04	20°♈41'54	-1°58'08
minimum elong	9674 Apr 06	11:56	20°♈10'01	1°57'43
	9674 Apr 12	18:11	0°♉	
evening rise	9674 Apr 22	06:57	15°♉08'40	
greatest brilliancy	9674 Apr 29	20:05	27°♉12'51	-0.9m
	9674 May 01	14:24	0°♊	
asc. node	9674 May 10	05:01	12°♊36'34	
evening max el	9674 May 13	11:50	16°♊23'48	18°42'30
retrograde	9674 May 20	02:13	20°♊00'57	
evening set	9674 May 23	08:39	18°♊59'58	
inferior conj	9674 May 28	23:39	13°♊21'55	3°15'45
minimum elong	9674 May 29	00:37	13°♊18'56	3°15'19
min. Earth dist.	9674 May 30	21:32	11°♊00'58	0.65525 AU
morning rise	9674 Jun 03	15:51	7°♊02'48	
direct	9674 Jun 10	03:51	4°♊17'34	
desc. node	9674 Jun 13	09:25	4°♊52'38	
morning max el	9674 Jun 23	10:11	12°♊08'43	26°54'50
	9674 Jul 07	16:39	0°♋	
	9674 Jul 25	23:58	0°♌	
morning set	9674 Jul 29	03:58	5°♌56'48	
max. Earth dist.	9674 Aug 02	10:31	14°♌20'20	1.33968 AU
asc. node	9674 Aug 06	04:24	22°♌00'58	
superior conj	9674 Aug 06	17:58	23°♌11'48	0°05'38
minimum elong	9674 Aug 06	17:41	23°♌10'17	0°05'21
behind sun begin	9674 Aug 06	12:17	22°♌42'03	
behind sun end	9674 Aug 06	23:05	23°♌38'34	
	9674 Aug 09	23:20	0°♍	
evening rise	9674 Aug 14	02:15	8°♍43'56	

	9674	Aug	25	06:41	0°♎				9675	Aug	01	20:00	0°♍	
evening max el	9674	Sep	03	02:27	11°♎32'05	21°30'47		evening max el	9675	Aug	16	06:19	22°♍23'42	20°09'04
desc. node	9674	Sep	09	07:57	16°♎08'55			retrograde	9675	Aug	26	21:33	27°♍40'00	
retrograde	9674	Sep	15	08:25	17°♎36'51			desc. node	9675	Aug	27	05:09	27°♍39'44	
evening set	9674	Sep	17	23:45	17°♎20'59			evening set	9675	Aug	28	20:07	27°♍30'15	
inferior conj	9674	Sep	27	02:55	13°♎24'08	-4°49'58		inferior conj	9675	Sep	06	21:32	23°♍31'32	-3°12'49
minimum elong	9674	Sep	26	17:42	13°♎37'01	4°47'50		minimum elong	9675	Sep	06	13:03	23°♍44'07	3°09'58
min. Earth dist.	9674	Sep	27	03:39	13°♎23'06	0.54654 AU		min. Earth dist.	9675	Sep	08	13:04	22°♍32'49	0.54950 AU
morning rise	9674	Oct	05	12:34	9°♎34'16			morning rise	9675	Sep	15	04:54	19°♍21'36	
direct	9674	Oct	09	05:08	9°♎04'44			direct	9675	Sep	19	15:43	18°♍38'47	
morning max el	9674	Oct	21	16:45	15°♎00'33	22°15'22		morning max el	9675	Oct	03	05:31	25°♍16'59	24°01'56
asc. node	9674	Nov	02	04:31	0°♏08'14				9675	Oct	07	15:22	0°♎	
	9674	Nov	02	02:33	0°♏			asc. node	9675	Oct	20	01:28	18°♎56'45	
morning set	9674	Nov	12	07:16	19°♏36'03				9675	Oct	25	16:37	0°♏	
	9674	Nov	17	04:22	0°♐			morning set	9675	Oct	27	19:02	4°♏24'58	
superior conj	9674	Nov	19	09:13	4°♐41'12	1°39'07		superior conj	9675	Nov	03	16:15	19°♏21'46	1°40'05
minimum elong	9674	Nov	19	10:00	4°♐45'21	1°39'25		minimum elong	9675	Nov	03	15:50	19°♏19'30	1°40'20
max. Earth dist.	9674	Nov	23	01:18	12°♐20'21	1.34261 AU		max. Earth dist.	9675	Nov	06	00:14	24°♏23'54	1.32898 AU
evening rise	9674	Nov	27	12:25	21°♐14'32				9675	Nov	08	15:50	0°♐	
	9674	Dec	02	04:27	0°♑			evening rise	9675	Nov	11	03:47	5°♐07'26	
desc. node	9674	Dec	06	06:23	7°♑11'03			desc. node	9675	Nov	23	03:26	27°♐12'04	
	9674	Dec	21	05:58	0°♒				9675	Nov	24	20:22	0°♑	
evening max el	9675	Jan	01	10:42	13°♒01'42	27°00'38		evening max el	9675	Dec	14	23:04	26°♑21'20	27°27'36
retrograde	9675	Jan	14	17:51	20°♒22'34				9675	Dec	19	06:42	0°♒	
evening set	9675	Jan	21	09:10	17°♒48'02			retrograde	9675	Dec	28	14:36	3°♒41'39	
min. Earth dist.	9675	Jan	25	08:32	13°♒56'24	0.65550 AU		evening set	9676	Jan	04	13:40	1°♒10'00	
inferior conj	9675	Jan	27	11:02	11°♒32'32	-0°33'53			9676	Jan	06	01:01	30°℞♑	
minimum elong	9675	Jan	27	12:01	11°♒29'44	0°33'11		min. Earth dist.	9676	Jan	08	08:28	27°♑50'21	0.63888 AU
asc. node	9675	Jan	29	03:44	9°♒39'14			inferior conj	9676	Jan	10	22:22	25°♑10'54	-1°41'36
morning rise	9675	Feb	02	16:07	5°♒57'28			minimum elong	9676	Jan	11	01:34	25°♑02'35	1°39'56
direct	9675	Feb	05	10:10	5°♒16'26			asc. node	9676	Jan	16	00:53	20°♑40'27	
morning max el	9675	Feb	11	20:04	8°♒40'03	18°06'26		morning rise	9676	Jan	17	15:21	19°♑50'43	
	9675	Feb	26	16:07	0°♓			direct	9676	Jan	20	01:52	19°♑21'12	
morning set	9675	Mar	02	07:36	5°♓56'07			morning max el	9676	Jan	26	13:28	22°♑42'47	17°49'14
desc. node	9675	Mar	04	06:14	9°♓05'42				9676	Feb	01	07:22	0°♒	
								morning set	9676	Feb	12	05:16	17°♒59'12	
superior conj	9675	Mar	17	03:15	29°♓41'41	-1°25'32		desc. node	9676	Feb	19	03:03	29°♒40'30	
minimum elong	9675	Mar	16	18:10	29°♓05'53	1°24'30			9676	Feb	19	07:44	0°♓	
	9675	Mar	17	07:55	0°♈									
max. Earth dist.	9675	Mar	19	19:22	3°♈53'31	1.45518 AU		superior conj	9676	Feb	25	02:16	9°♓30'21	-0°43'08
evening rise	9675	Apr	02	06:37	24°♈50'50			minimum elong	9676	Feb	24	21:33	9°♓11'10	0°42'18
	9675	Apr	05	14:32	0°♉			max. Earth dist.	9676	Mar	01	14:37	18°♓21'19	1.44782 AU
greatest brilliancy	9675	Apr	14	23:24	14°♉19'39	-0.7m			9676	Mar	09	01:10	0°♈	
	9675	Apr	26	18:11	0°♊			evening rise	9676	Mar	11	18:30	4°♈11'36	
evening max el	9675	Apr	26	19:34	0°♊03'32	19°27'16			9676	Mar	29	02:02	0°♉	
asc. node	9675	Apr	27	02:08	0°♊19'53			evening max el	9676	Apr	08	21:51	13°♉44'31	20°27'01
retrograde	9675	May	03	23:25	4°♊06'56			asc. node	9676	Apr	12	23:17	17°♉07'02	
evening set	9675	May	07	14:10	2°♊50'38			retrograde	9676	Apr	16	22:05	18°♉24'09	
	9675	May	10	13:56	30°℞♉			evening set	9676	Apr	20	21:59	16°♉52'20	
inferior conj	9675	May	12	23:55	26°♉57'32	3°19'40		inferior conj	9676	Apr	26	05:15	10°♉45'56	3°10'59
minimum elong	9675	May	12	23:40	26°♉58'21	3°19'22		minimum elong	9676	Apr	26	04:00	10°♉50'12	3°10'37
min. Earth dist.	9675	May	14	06:42	25°♉16'25	0.66955 AU		min. Earth dist.	9676	Apr	26	21:51	9°♉49'04	0.67932 AU
morning rise	9675	May	18	08:48	20°♉38'06			morning rise	9676	May	01	09:48	4°♉28'48	
direct	9675	May	24	11:09	17°♉56'36			direct	9676	May	06	23:46	1°♉59'53	
desc. node	9675	May	31	06:25	20°♉31'11			desc. node	9676	May	17	03:21	7°♉38'52	
morning max el	9675	Jun	05	20:23	25°♉21'17	25°43'40		morning max el	9676	May	18	05:51	8°♉44'04	24°18'08
	9675	Jun	10	01:49	0°♊				9676	Jun	03	22:51	0°♊	
	9675	Jul	01	04:38	0°♋			morning set	9676	Jun	22	22:10	0°♋09'38	
morning set	9675	Jul	11	22:34	18°♋30'39				9676	Jun	22	19:57	0°♋	
max. Earth dist.	9675	Jul	15	16:06	25°♋28'22	1.35751 AU		max. Earth dist.	9676	Jun	26	14:12	6°♋38'35	1.37888 AU
	9675	Jul	18	00:29	0°♌									
								superior conj	9676	Jul	03	16:07	19°♋48'43	-0°58'09
superior conj	9675	Jul	21	10:53	6°♌48'25	-0°25'25		minimum elong	9676	Jul	03	19:53	20°♋06'46	0°57'52
minimum elong	9675	Jul	21	12:25	6°♌56'10	0°25'25			9676	Jul	08	21:17	0°♌	
asc. node	9675	Jul	24	01:20	12°♌05'22			asc. node	9676	Jul	09	22:15	2°♌03'48	
evening rise	9675	Jul	29	09:15	23°♌03'00			evening rise	9676	Jul	12	10:20	7°♌01'52	

	9676 Jul 25	12:54	0°♍		
evening max el	9676 Jul 28	23:29	4°♍00'39	19°07'43	
retrograde	9676 Aug 06	23:02	8°♍28'15		
evening set	9676 Aug 08	19:57	8°♍17'26		
desc. node	9676 Aug 13	02:20	6°♍41'34		
inferior conj	9676 Aug 17	06:39	4°♍04'53	-1°17'36	
minimum elong	9676 Aug 17	03:15	4°♍10'39	1°16'27	
min. Earth dist.	9676 Aug 20	02:21	2°♍10'21	0.56148 AU	
	9676 Aug 23	19:19	30°♑		
morning rise	9676 Aug 25	07:33	29°♌19'28		
direct	9676 Aug 30	13:47	28°♌15'12		
	9676 Sep 06	07:59	0°♍		
morning max el	9676 Sep 13	18:02	5°♍29'01	25°43'25	
	9676 Oct 01	12:37	0°♎		
asc. node	9676 Oct 05	22:21	8°♎13'15		
morning set	9676 Oct 11	06:20	19°♎09'34		
	9676 Oct 16	05:32	0°♏		
superior conj	9676 Oct 18	02:36	4°♏09'13	1°35'00	
minimum elong	9676 Oct 18	01:12	4°♏01'31	1°35'04	
max. Earth dist.	9676 Oct 19	05:41	6°♏38'37	1.31989 AU	
evening rise	9676 Oct 25	03:39	19°♏21'52		
	9676 Oct 30	11:16	0°♐		
desc. node	9676 Nov 09	00:33	16°♐46'09		
	9676 Nov 18	04:47	0°♑		
evening max el	9676 Nov 26	08:04	9°♑07'41	27°24'27	
retrograde	9676 Dec 10	04:15	16°♑23'19		
evening set	9676 Dec 17	05:35	14°♑03'32		
min. Earth dist.	9676 Dec 20	22:16	11°♑10'24	0.61944 AU	
inferior conj	9676 Dec 23	21:48	8°♑26'36	-2°54'15	
minimum elong	9676 Dec 24	03:31	8°♑13'28	2°51'46	
morning rise	9676 Dec 31	03:51	3°♑24'34		
asc. node	9677 Jan 01	21:58	3°♑03'54		
direct	9677 Jan 02	09:17	3°♑02'54		
morning max el	9677 Jan 09	06:16	6°♑32'04	17°49'55	
	9677 Jan 24	10:17	0°♒		
morning set	9677 Jan 25	00:35	1°♒04'04		
desc. node	9677 Feb 04	23:55	20°♒21'41		
superior conj	9677 Feb 05	02:06	20°♒31'03	-0°00'42	
minimum elong	9677 Feb 05	02:03	20°♒30'50	0°00'26	
behind sun begin	9677 Feb 04	17:25	19°♒53'59		
behind sun end	9677 Feb 05	10:42	21°♒07'35		
	9677 Feb 10	18:17	0°♓		
max. Earth dist.	9677 Feb 12	06:18	2°♓26'56	1.43395 AU	
evening rise	9677 Feb 19	09:56	13°♓49'24		
	9677 Mar 02	01:47	0°♈		
evening max el	9677 Mar 22	18:37	27°♈26'44	21°38'36	
	9677 Mar 25	13:39	0°♉		
asc. node	9677 Mar 30	20:27	2°♉43'14		
retrograde	9677 Mar 31	20:15	2°♉48'08		
evening set	9677 Apr 05	06:19	1°♉01'04		
	9677 Apr 06	09:00	30°♑♈		
inferior conj	9677 Apr 10	13:25	24°♈43'46	2°51'33	
minimum elong	9677 Apr 10	11:30	24°♈50'28	2°51'03	
min. Earth dist.	9677 Apr 10	16:58	24°♈31'23	0.68457 AU	
morning rise	9677 Apr 15	16:29	18°♈30'35		
direct	9677 Apr 20	16:56	16°♈20'08		
morning max el	9677 Apr 30	16:12	22°♈14'10	22°48'13	
desc. node	9677 May 04	00:14	25°♈51'39		
	9677 May 07	10:02	0°♉		
	9677 May 28	06:12	0°♊		
morning set	9677 Jun 03	21:36	10°♊41'02		
max. Earth dist.	9677 Jun 08	11:05	18°♊20'30	1.40163 AU	
	9677 Jun 15	02:22	0°♋		
superior conj	9677 Jun 16	05:40	2°♋03'39	-1°29'49	
minimum elong	9677 Jun 16	11:23	2°♋29'41	1°29'26	
evening rise	9677 Jun 26	02:24	20°♋32'41		
asc. node	9677 Jun 26	19:13	21°♋52'32		
	9677 Jul 01	03:35	0°♌		
evening max el	9677 Jul 12	03:20	16°♌20'09	18°27'31	
retrograde	9677 Jul 19	19:02	20°♌09'56		
evening set	9677 Jul 21	21:49	19°♌53'13		
inferior conj	9677 Jul 29	13:03	15°♌21'15	0°25'54	
minimum elong	9677 Jul 29	13:58	15°♌19'24	0°25'17	
desc. node	9677 Jul 30	23:28	14°♌12'22		
min. Earth dist.	9677 Aug 01	21:18	12°♌42'46	0.58021 AU	
morning rise	9677 Aug 06	02:35	9°♌59'10		
direct	9677 Aug 12	02:48	8°♌25'53		
morning max el	9677 Aug 26	11:47	16°♌05'30	27°02'38	
	9677 Sep 06	20:28	0°♍		
asc. node	9677 Sep 22	19:13	27°♍50'26		
	9677 Sep 23	20:30	0°♎		
morning set	9677 Sep 25	15:33	3°♎45'22		
superior conj	9677 Oct 02	14:20	18°♎57'43	1°24'19	
minimum elong	9677 Oct 02	12:18	18°♎46'25	1°24'09	
max. Earth dist.	9677 Oct 02	14:48	19°♎00'18	1.31558 AU	
	9677 Oct 07	14:27	0°♏		
evening rise	9677 Oct 09	09:31	3°♏51'09		
	9677 Oct 23	05:55	0°♐		
desc. node	9677 Oct 26	21:41	5°♐42'17		
evening max el	9677 Nov 08	11:15	21°♐09'11	26°47'27	
retrograde	9677 Nov 22	09:33	28°♐17'58		
evening set	9677 Nov 29	04:51	26°♐20'31		
min. Earth dist.	9677 Dec 03	01:29	23°♐43'16	0.59845 AU	
inferior conj	9677 Dec 06	05:52	21°♐10'09	-4°06'28	
minimum elong	9677 Dec 06	13:25	20°♐54'56	4°03'52	
morning rise	9677 Dec 14	00:36	16°♐28'55		
direct	9677 Dec 16	04:20	16°♐11'38		
asc. node	9677 Dec 19	19:01	17°♐02'40		
morning max el	9677 Dec 23	18:54	19°♐57'36	18°09'40	
	9677 Dec 31	05:29	0°♑		
morning set	9678 Jan 08	11:22	14°♑51'29		
	9678 Jan 16	14:45	0°♒		
superior conj	9678 Jan 18	02:01	2°♒39'25	0°35'49	
minimum elong	9678 Jan 18	04:36	2°♒51'00	0°35'44	
desc. node	9678 Jan 22	20:48	11°♒05'09		
max. Earth dist.	9678 Jan 25	17:06	15°♒56'24	1.41521 AU	
evening rise	9678 Jan 30	17:30	24°♒13'16		
	9678 Feb 03	08:28	0°♓		
	9678 Feb 23	23:58	0°♈		
evening max el	9678 Mar 05	11:03	11°♈11'08	22°57'25	
retrograde	9678 Mar 15	16:13	17°♈13'51		
asc. node	9678 Mar 17	17:37	16°♈53'06		
evening set	9678 Mar 20	13:33	15°♈12'09		
inferior conj	9678 Mar 25	22:23	8°♈47'06	2°22'30	
minimum elong	9678 Mar 25	20:11	8°♈54'45	2°21'52	
min. Earth dist.	9678 Mar 25	13:44	9°♈17'05	0.68546 AU	
morning rise	9678 Mar 31	02:41	2°♈39'16		
direct	9678 Apr 04	13:30	0°♈50'15		
morning max el	9678 Apr 13	06:41	5°♈52'59	21°22'44	
desc. node	9678 Apr 20	21:07	14°♈51'17		
	9678 May 01	15:55	0°♉		
morning set	9678 May 14	18:03	19°♉58'28		
	9678 May 20	23:42	0°♊		
max. Earth dist.	9678 May 21	12:49	0°♊53'46	1.42302 AU	
superior conj	9678 May 28	22:55	13°♊22'38	-1°56'11	
minimum elong	9678 May 29	04:53	13°♊48'23	1°56'02	
	9678 Jun 07	08:12	0°♋		
evening rise	9678 Jun 09	05:27	3°♋25'03		

asc. node	9678 Jun 13	16:15	11°♋26'37	
evening max el	9678 Jun 25	13:53	29°♋12'29	18°07'32
	9678 Jun 26	10:18	0°♌	
retrograde	9678 Jul 02	09:00	2°♌39'48	
evening set	9678 Jul 04	19:37	2°♌13'24	
	9678 Jul 08	15:09	30°℞♋	
inferior conj	9678 Jul 11	16:31	27°♋21'01	1°44'14
minimum elong	9678 Jul 11	19:16	27°♋14'39	1°43'02
min. Earth dist.	9678 Jul 14	23:25	24°♋19'55	0.60237 AU
desc. node	9678 Jul 17	20:35	22°♋02'51	
morning rise	9678 Jul 18	16:04	21°♋30'47	
direct	9678 Jul 25	04:42	19°♋27'24	
morning max el	9678 Aug 08	12:22	27°♋22'47	27°47'50
	9678 Aug 11	00:29	0°♌	
	9678 Aug 31	12:53	0°♍	
morning set	9678 Sep 09	20:57	18°♍07'35	
asc. node	9678 Sep 09	16:05	17°♍42'18	
	9678 Sep 15	09:30	0°♎	
max. Earth dist.	9678 Sep 16	00:03	1°♎20'13	1.31607 AU
superior conj	9678 Sep 17	01:39	3°♎41'44	1°08'23
minimum elong	9678 Sep 16	23:24	3°♎29'19	1°08'02
evening rise	9678 Sep 23	19:09	18°♎29'13	
	9678 Sep 29	09:22	0°♏	
desc. node	9678 Oct 13	18:50	23°♏45'49	
	9678 Oct 18	23:16	0°♐	
evening max el	9678 Oct 21	06:41	2°♐20'12	25°37'56
retrograde	9678 Nov 04	04:25	9°♐21'13	
evening set	9678 Nov 10	06:43	7°♐55'05	
min. Earth dist.	9678 Nov 14	19:08	5°♐18'01	0.57793 AU
inferior conj	9678 Nov 17	19:16	3°♐12'27	-5°07'37
minimum elong	9678 Nov 18	02:10	3°♐00'25	5°06'02
	9678 Nov 22	23:24	30°℞♏	
morning rise	9678 Nov 25	23:56	28°♏53'39	
direct	9678 Nov 28	07:04	28°♏37'18	
	9678 Dec 03	06:57	0°♐	
asc. node	9678 Dec 06	16:02	2°♐31'07	
morning max el	9678 Dec 06	23:37	2°♐49'07	18°50'12
morning set	9678 Dec 23	08:47	29°♐07'41	
	9678 Dec 23	19:28	0°♑	
superior conj	9678 Dec 31	21:36	15°♑43'00	1°04'02
minimum elong	9679 Jan 01	00:49	15°♑58'13	1°03'58
max. Earth dist.	9679 Jan 08	00:04	28°♑44'40	1.39377 AU
	9679 Jan 08	17:10	0°♒	
desc. node	9679 Jan 09	17:46	1°♒47'28	
evening rise	9679 Jan 11	22:32	5°♒34'14	
	9679 Jan 27	10:30	0°♓	
evening max el	9679 Feb 16	01:07	24°♓58'56	24°17'29
	9679 Feb 22	05:52	0°♈	
retrograde	9679 Feb 27	08:41	1°♈36'46	
	9679 Mar 03	22:41	30°℞♓	
evening set	9679 Mar 04	18:10	29°♓21'39	
asc. node	9679 Mar 04	14:47	29°♓28'46	
min. Earth dist.	9679 Mar 09	09:53	24°♓01'29	0.68214 AU
inferior conj	9679 Mar 10	06:19	22°♓52'43	1°44'23
minimum elong	9679 Mar 10	04:16	22°♓59'37	1°43'45
morning rise	9679 Mar 15	14:26	16°♓51'46	
direct	9679 Mar 19	12:14	15°♓24'40	
morning max el	9679 Mar 27	04:17	19°♓43'44	20°08'10
	9679 Apr 04	14:25	0°♈	
desc. node	9679 Apr 07	18:00	4°♈25'09	
morning set	9679 Apr 23	18:49	28°♈25'54	
	9679 Apr 24	19:11	0°♉	
max. Earth dist.	9679 May 03	22:15	14°♉20'36	1.44044 AU
superior conj	9679 May 09	16:09	23°♉38'26	-2°11'18
minimum elong	9679 May 09	18:39	23°♉48'39	2°11'31
	9679 May 13	12:27	0°♊	
evening rise	9679 May 22	14:46	15°♊28'17	
	9679 May 31	03:28	0°♋	
asc. node	9679 May 31	13:17	0°♋40'04	
evening max el	9679 Jun 09	03:20	12°♋27'12	18°06'41
retrograde	9679 Jun 15	13:03	15°♋47'32	
evening set	9679 Jun 18	07:24	15°♋08'50	
inferior conj	9679 Jun 24	13:33	9°♋57'09	2°36'32
minimum elong	9679 Jun 24	16:14	9°♋50'05	2°35'33
min. Earth dist.	9679 Jun 27	10:15	6°♋57'03	0.62480 AU
morning rise	9679 Jun 30	23:13	3°♋49'10	
desc. node	9679 Jul 04	17:42	1°♋49'32	
direct	9679 Jul 07	16:44	1°♋21'31	
morning max el	9679 Jul 21	18:50	9°♋23'40	27°54'42
	9679 Aug 06	18:26	0°♌	
	9679 Aug 23	18:42	0°♍	
morning set	9679 Aug 24	20:24	2°♍09'31	
asc. node	9679 Aug 27	12:58	7°♍42'55	
max. Earth dist.	9679 Aug 30	05:35	13°♍26'43	1.32139 AU
superior conj	9679 Sep 01	10:37	18°♍14'32	0°47'31
minimum elong	9679 Sep 01	08:41	18°♍03'53	0°47'03
	9679 Sep 06	19:30	0°♎	
evening rise	9679 Sep 08	06:32	3°♎09'05	
	9679 Sep 22	14:40	0°♏	
desc. node	9679 Sep 30	16:02	10°♏35'31	
evening max el	9679 Oct 02	19:02	12°♏46'23	24°05'03
retrograde	9679 Oct 16	10:58	19°♏36'45	
evening set	9679 Oct 21	07:56	18°♏44'39	
min. Earth dist.	9679 Oct 27	05:39	15°♏49'18	0.56051 AU
inferior conj	9679 Oct 29	12:12	14°♏25'58	-5°40'29
minimum elong	9679 Oct 29	13:55	14°♏23'21	5°40'11
morning rise	9679 Nov 06	21:55	10°♏27'56	
direct	9679 Nov 09	14:31	10°♏09'12	
morning max el	9679 Nov 19	16:50	14°♏55'49	19°53'13
asc. node	9679 Nov 23	13:02	19°♏14'13	
	9679 Nov 30	11:16	0°♐	
morning set	9679 Dec 07	13:16	13°♐41'42	
superior conj	9679 Dec 15	07:54	29°♐27'37	1°23'46
minimum elong	9679 Dec 15	10:32	29°♐40'44	1°23'52
	9679 Dec 15	14:24	0°♑	
max. Earth dist.	9679 Dec 21	06:29	10°♑57'12	1.37202 AU
evening rise	9679 Dec 25	00:18	17°♑48'50	
desc. node	9679 Dec 27	14:44	22°♑24'27	
	9680 Jan 01	02:24	0°♒	
	9680 Jan 21	18:09	0°♓	
evening max el	9680 Jan 29	14:26	8°♓48'05	25°32'02
retrograde	9680 Feb 10	20:42	15°♓51'30	
evening set	9680 Feb 16	18:37	13°♓25'14	
asc. node	9680 Feb 19	11:57	10°♓39'52	
min. Earth dist.	9680 Feb 21	03:10	8°♓40'03	0.67474 AU
inferior conj	9680 Feb 22	11:19	6°♓57'05	0°57'26
minimum elong	9680 Feb 22	09:58	7°♓01'25	0°57'03
morning rise	9680 Feb 28	01:45	1°♓04'41	
	9680 Mar 01	21:18	30°℞♒	
direct	9680 Mar 02	11:33	29°♒58'01	
	9680 Mar 03	01:56	0°♓	
morning max el	9680 Mar 09	09:52	3°♓45'51	19°08'08
greatest brilliancy	9680 Mar 22	15:31	21°♓24'53	-0.7m
desc. node	9680 Mar 24	14:52	24°♓24'05	
	9680 Mar 28	06:39	0°♈	
morning set	9680 Apr 01	21:08	7°♈06'20	
max. Earth dist.	9680 Apr 15	14:04	28°♈27'29	1.45180 AU
	9680 Apr 16	13:35	0°♉	

superior conj	9680 Apr 18	10:26	2°♉57'01	-2°08'51
minimum elong	9680 Apr 18	05:50	2°♉38'50	2°08'53
evening rise	9680 May 03	02:01	26°♉34'28	
	9680 May 05	04:04	0°♊	
asc. node	9680 May 17	10:23	19°♊26'14	
evening max el	9680 May 22	16:29	25°♊56'27	18°24'15
retrograde	9680 May 29	02:40	29°♊23'56	
evening set	9680 Jun 01	04:36	28°♊31'23	
inferior conj	9680 Jun 07	00:03	23°♊02'17	3°06'39
minimum elong	9680 Jun 07	01:44	22°♊57'20	3°06'04
min. Earth dist.	9680 Jun 09	06:33	20°♊22'56	0.64510 AU
morning rise	9680 Jun 12	21:48	16°♊45'10	
direct	9680 Jun 19	13:16	14°♊03'17	
desc. node	9680 Jun 20	14:46	14°♊07'03	
morning max el	9680 Jul 03	04:52	22°♊02'23	27°25'29
	9680 Jul 10	04:01	0°♋	
	9680 Jul 29	23:34	0°♌	
morning set	9680 Aug 07	11:23	15°♌44'43	
max. Earth dist.	9680 Aug 12	03:37	25°♌10'34	1.33163 AU
asc. node	9680 Aug 13	09:52	27°♌48'11	
	9680 Aug 14	10:55	0°♍	
superior conj	9680 Aug 15	15:18	2°♍30'41	0°22'06
minimum elong	9680 Aug 15	14:14	2°♍24'57	0°21'41
evening rise	9680 Aug 22	17:49	17°♍45'24	
	9680 Aug 28	18:09	0°♎	
evening max el	9680 Sep 13	06:42	22°♎55'10	22°24'55
desc. node	9680 Sep 16	13:13	25°♎44'27	
retrograde	9680 Sep 26	05:42	29°♎22'40	
evening set	9680 Sep 29	14:38	28°♎57'34	
min. Earth dist.	9680 Oct 07	13:18	25°♎26'34	0.54922 AU
inferior conj	9680 Oct 08	11:39	24°♎55'01	-5°24'55
minimum elong	9680 Oct 08	05:25	25°♎03'48	5°23'58
morning rise	9680 Oct 16	21:58	21°♎07'39	
direct	9680 Oct 20	04:44	20°♎43'23	
morning max el	9680 Oct 31	20:42	26°♎12'41	21°18'20
	9680 Nov 04	09:35	0°♏	
asc. node	9680 Nov 09	10:00	6°♏56'28	
morning set	9680 Nov 20	22:09	28°♏26'02	
	9680 Nov 21	16:09	0°♐	
superior conj	9680 Nov 28	04:44	13°♐41'30	1°35'35
minimum elong	9680 Nov 28	06:14	13°♐49'19	1°35'50
max. Earth dist.	9680 Dec 02	16:50	22°♐50'56	1.35229 AU
	9680 Dec 06	09:12	0°♑	
evening rise	9680 Dec 06	19:34	0°♑49'06	
desc. node	9680 Dec 13	11:44	12°♑51'48	
	9680 Dec 24	04:28	0°♒	
evening max el	9681 Jan 11	03:42	22°♒32'44	26°33'47
retrograde	9681 Jan 24	03:30	29°♒50'57	
evening set	9681 Jan 30	13:04	27°♒17'32	
min. Earth dist.	9681 Feb 03	15:25	23°♒06'50	0.66351 AU
inferior conj	9681 Feb 05	11:20	20°♒55'33	0°01'49
minimum elong	9681 Feb 05	11:16	20°♒55'43	0°02'03
transit middle	9681 Feb 05	11:16	20°♒55'43	0°02'03
transit begin	9681 Feb 05	08:23	21°♒04'22	
transit end	9681 Feb 05	14:10	20°♒47'04	
asc. node	9681 Feb 05	09:08	21°♒02'08	
morning rise	9681 Feb 11	10:27	15°♒13'40	
direct	9681 Feb 14	09:41	14°♒24'27	
morning max el	9681 Feb 20	22:03	17°♒53'46	18°24'11
	9681 Mar 02	03:15	0°♓	
desc. node	9681 Mar 11	11:42	14°♓40'42	
morning set	9681 Mar 12	21:59	16°♓57'09	
	9681 Mar 21	03:37	0°♈	
superior conj	9681 Mar 28	16:22	11°♈49'07	-1°46'11
minimum elong	9681 Mar 28	06:55	11°♈12'10	1°45'24
max. Earth dist.	9681 Mar 29	08:58	12°♈54'02	1.45602 AU
	9681 Apr 09	07:07	0°♉	
evening rise	9681 Apr 13	13:30	6°♉42'33	
greatest brilliancy	9681 Apr 23	12:20	22°♉19'16	-0.8m
	9681 Apr 28	14:38	0°♊	
asc. node	9681 May 04	07:30	7°♊35'30	
evening max el	9681 May 06	02:40	9°♊33'03	18°59'30
retrograde	9681 May 12	22:01	13°♊20'26	
evening set	9681 May 16	07:49	12°♊13'06	
inferior conj	9681 May 21	20:12	6°♊28'17	3°19'05
minimum elong	9681 May 21	20:38	6°♊26'54	3°18'45
min. Earth dist.	9681 May 23	11:33	4°♊23'21	0.66182 AU
morning rise	9681 May 27	08:53	0°♊08'19	
	9681 May 27	12:43	30°℞♉	
direct	9681 Jun 02	17:05	27°♉23'27	
desc. node	9681 Jun 07	11:48	28°♉40'12	
	9681 Jun 09	17:25	0°♊	
morning max el	9681 Jun 15	15:36	5°♊05'57	26°26'57
	9681 Jul 04	16:52	0°♋	
morning set	9681 Jul 21	14:37	28°♋44'06	
	9681 Jul 22	06:43	0°♌	
max. Earth dist.	9681 Jul 25	15:05	6°♌27'46	1.34675 AU
superior conj	9681 Jul 30	13:18	16°♌23'29	-0°07'14
minimum elong	9681 Jul 30	13:43	16°♌25'38	0°07'25
behind sun begin	9681 Jul 30	08:27	15°♌58'33	
behind sun end	9681 Jul 30	18:59	16°♌52'47	
asc. node	9681 Jul 31	06:47	17°♌53'44	
	9681 Aug 06	01:38	0°♍	
evening rise	9681 Aug 07	02:58	2°♍12'08	
	9681 Aug 23	01:42	0°♎	
evening max el	9681 Aug 26	03:01	3°♎23'51	20°53'39
desc. node	9681 Sep 03	10:23	8°♎41'54	
retrograde	9681 Sep 06	17:51	9°♎09'29	
evening set	9681 Sep 08	23:30	8°♎57'33	
inferior conj	9681 Sep 18	03:53	5°♎01'29	-4°13'11
minimum elong	9681 Sep 17	18:06	5°♎15'23	4°10'25
min. Earth dist.	9681 Sep 18	21:49	4°♎35'58	0.54659 AU
morning rise	9681 Sep 26	12:50	1°♎05'15	
direct	9681 Sep 30	12:38	0°♎31'03	
morning max el	9681 Oct 13	13:21	6°♎46'06	23°00'16
asc. node	9681 Oct 27	06:56	25°♎24'13	
	9681 Oct 29	19:35	0°♏	
morning set	9681 Nov 05	09:23	13°♏14'56	
superior conj	9681 Nov 12	08:50	28°♏15'07	1°40'18
minimum elong	9681 Nov 12	09:05	28°♏16'30	1°40'36
	9681 Nov 13	04:28	0°♐	
max. Earth dist.	9681 Nov 15	10:44	4°♐46'34	1.33620 AU
evening rise	9681 Nov 20	04:38	14°♐25'55	
	9681 Nov 28	13:48	0°♑	
desc. node	9681 Nov 30	08:45	3°♑04'28	
	9681 Dec 19	00:23	0°♒	
evening max el	9681 Dec 24	16:46	6°♒05'03	27°15'29
retrograde	9682 Jan 07	04:24	13°♒27'29	
evening set	9682 Jan 13	23:24	10°♒53'03	
min. Earth dist.	9682 Jan 17	20:32	7°♒15'27	0.64873 AU
inferior conj	9682 Jan 20	04:04	4°♒43'26	-1°01'49
minimum elong	9682 Jan 20	05:56	4°♒38'20	1°00'43
asc. node	9682 Jan 23	06:15	1°♒33'12	
	9682 Jan 25	05:22	30°℞♑	
morning rise	9682 Jan 26	14:02	29°♑14'28	
direct	9682 Jan 29	04:29	28°♑38'57	
	9682 Feb 02	04:01	0°♒	
morning max el	9682 Feb 04	14:23	2°♒00'49	17°57'01
morning set	9682 Feb 22	04:17	28°♒15'33	

	9682 Feb 23	05:28	0°♓		
desc. node	9682 Feb 26	08:33	5°♓10'11		
superior conj	9682 Mar 08	04:32	21°♓05'19	-1°08'09	
minimum elong	9682 Mar 07	20:57	20°♓35'08	1°07'06	
max. Earth dist.	9682 Mar 12	04:22	27°♓24'20	1.45285 AU	
	9682 Mar 13	20:02	0°♈		
evening rise	9682 Mar 24	06:24	16°♈10'34		
	9682 Apr 02	07:43	0°♉		
greatest brilliancy	9682 Apr 07	15:55	7°♉58'16	-0.6m	
evening max el	9682 Apr 19	08:10	23°♉13'15	19°51'01	
asc. node	9682 Apr 21	04:38	24°♉56'29		
retrograde	9682 Apr 26	20:05	27°♉31'16		
evening set	9682 Apr 30	14:31	26°♉08'35		
inferior conj	9682 May 05	22:55	20°♉09'44	3°17'22	
minimum elong	9682 May 05	22:13	20°♉12'06	3°17'04	
min. Earth dist.	9682 May 06	23:38	18°♉46'49	0.67426 AU	
morning rise	9682 May 11	05:35	13°♉50'49		
direct	9682 May 17	02:56	11°♉13'27		
desc. node	9682 May 25	08:47	14°♉59'31		
morning max el	9682 May 29	01:20	18°♉23'05	25°08'21	
	9682 Jun 07	20:01	0°♊		
	9682 Jun 27	18:06	0°♋		
morning set	9682 Jul 04	01:48	10°♋56'22		
max. Earth dist.	9682 Jul 07	16:26	17°♋31'09	1.36625 AU	
superior conj	9682 Jul 14	01:42	29°♋45'45	-0°39'14	
minimum elong	9682 Jul 14	04:10	29°♋57'53	0°39'06	
	9682 Jul 14	04:36	0°♌		
asc. node	9682 Jul 18	03:42	7°♌55'57		
evening rise	9682 Jul 22	07:46	16°♌23'10		
	9682 Jul 29	08:27	0°♍		
evening max el	9682 Aug 08	12:50	14°♍35'07	19°40'24	
retrograde	9682 Aug 18	10:36	19°♍29'26		
evening set	9682 Aug 20	07:01	19°♍19'56		
desc. node	9682 Aug 21	07:35	19°♍06'54		
inferior conj	9682 Aug 29	03:22	15°♍16'57	-2°24'06	
minimum elong	9682 Aug 28	20:52	15°♍27'07	2°21'47	
min. Earth dist.	9682 Aug 31	08:56	13°♍53'26	0.55360 AU	
morning rise	9682 Sep 06	08:35	10°♍52'49		
direct	9682 Sep 11	03:50	10°♍01'39		
morning max el	9682 Sep 25	01:02	16°♍56'41	24°46'42	
	9682 Oct 05	16:01	0°♎		
asc. node	9682 Oct 14	03:50	14°♎25'35		
morning set	9682 Oct 20	21:08	28°♎02'23		
	9682 Oct 21	19:03	0°♏		
superior conj	9682 Oct 27	17:32	12°♏59'28	1°38'38	
minimum elong	9682 Oct 27	16:40	12°♏54'43	1°38'49	
max. Earth dist.	9682 Oct 29	12:38	16°♏54'39	1.32454 AU	
evening rise	9682 Nov 03	23:59	28°♏29'12		
	9682 Nov 04	17:50	0°♐		
desc. node	9682 Nov 17	05:49	22°♐54'58		
	9682 Nov 21	17:59	0°♑		
evening max el	9682 Dec 07	04:07	19°♑12'29	27°30'20	
retrograde	9682 Dec 20	22:20	26°♑31'13		
evening set	9682 Dec 27	22:57	24°♑03'44		
min. Earth dist.	9682 Dec 31	16:30	20°♑55'56	0.63085 AU	
inferior conj	9683 Jan 03	10:43	18°♑13'11	-2°12'04	
minimum elong	9683 Jan 03	15:00	18°♑02'38	2°10'00	
morning rise	9683 Jan 10	09:11	13°♑00'02		
asc. node	9683 Jan 10	03:22	13°♑05'34		
direct	9683 Jan 12	17:07	12°♑34'20		
morning max el	9683 Jan 19	07:51	15°♑58'22	17°47'14	
	9683 Jan 29	05:50	0°♒		
morning set	9683 Feb 04	11:59	10°♒47'09		
desc. node	9683 Feb 13	05:22	25°♒47'42		

	9683 Feb 15	17:37	0°♓		
superior conj	9683 Feb 16	13:36	1°♓22'51	-0°24'40	
minimum elong	9683 Feb 16	11:02	1°♓12'16	0°24'06	
max. Earth dist.	9683 Feb 22	22:09	11°♓43'32	1.44266 AU	
evening rise	9683 Mar 03	17:51	25°♓33'36		
	9683 Mar 06	15:26	0°♈		
	9683 Mar 27	10:23	0°♉		
evening max el	9683 Apr 02	08:08	6°♉54'52	20°56'22	
asc. node	9683 Apr 08	01:47	11°♉15'11		
retrograde	9683 Apr 10	18:38	11°♉51'29		
evening set	9683 Apr 14	22:45	10°♉13'13		
inferior conj	9683 Apr 20	05:42	4°♉02'08	3°03'59	
minimum elong	9683 Apr 20	04:08	4°♉07'35	3°03'33	
min. Earth dist.	9683 Apr 20	16:42	3°♉24'07	0.68212 AU	
	9683 Apr 23	06:51	30°℞♈		
morning rise	9683 Apr 25	09:18	27°♈46'37		
direct	9683 Apr 30	17:43	25°♈24'46		
	9683 May 09	13:38	0°♉		
morning max el	9683 May 11	10:38	1°♉47'58	23°39'52	
desc. node	9683 May 12	05:43	2°♉37'05		
	9683 Jun 01	19:57	0°♊		
morning set	9683 Jun 15	15:45	22°♊08'05		
max. Earth dist.	9683 Jun 19	13:04	28°♊51'12	1.38853 AU	
	9683 Jun 20	04:40	0°♋		
superior conj	9683 Jun 27	00:54	12°♋28'38	-1°11'54	
minimum elong	9683 Jun 27	05:35	12°♋50'37	1°11'32	
asc. node	9683 Jul 05	00:39	27°♋51'01		
evening rise	9683 Jul 06	05:28	0°♌11'28		
	9683 Jul 06	03:07	0°♌		
evening max el	9683 Jul 22	11:08	26°♌31'59	18°48'07	
	9683 Jul 27	09:32	0°♍		
retrograde	9683 Jul 30	19:33	0°♍41'25		
evening set	9683 Aug 01	18:42	0°♍28'28		
	9683 Aug 03	09:05	30°℞♌		
desc. node	9683 Aug 08	04:46	27°♌19'49		
inferior conj	9683 Aug 09	21:15	26°♌07'55	-0°31'08	
minimum elong	9683 Aug 09	19:58	26°♌10'15	0°30'52	
min. Earth dist.	9683 Aug 13	00:11	23°♌52'51	0.56885 AU	
morning rise	9683 Aug 17	17:54	21°♌06'47		
direct	9683 Aug 23	08:28	19°♌50'47		
morning max el	9683 Sep 06	15:10	27°♌15'55	26°20'37	
	9683 Sep 09	06:53	0°♍		
	9683 Sep 29	01:16	0°♎		
asc. node	9683 Oct 01	00:43	3°♎51'55		
morning set	9683 Oct 05	07:47	12°♎44'01		
superior conj	9683 Oct 12	04:43	27°♎48'10	1°31'07	
minimum elong	9683 Oct 12	03:01	27°♎38'41	1°31'06	
max. Earth dist.	9683 Oct 12	20:16	29°♎14'24	1.31757 AU	
	9683 Oct 13	04:30	0°♏		
evening rise	9683 Oct 19	02:46	12°♏51'12		
	9683 Oct 27	20:30	0°♐		
desc. node	9683 Nov 04	02:55	12°♐14'21		
	9683 Nov 17	17:58	0°♑		
evening max el	9683 Nov 19	11:12	1°♑41'36	27°12'52	
retrograde	9683 Dec 03	08:15	8°♑53'22		
evening set	9683 Dec 10	08:16	6°♑42'07		
min. Earth dist.	9683 Dec 14	01:49	3°♑57'11	0.61069 AU	
inferior conj	9683 Dec 17	04:04	1°♑16'20	-3°25'24	
minimum elong	9683 Dec 17	10:44	1°♑01'50	3°22'45	
	9683 Dec 18	15:48	30°℞♐		
morning rise	9683 Dec 24	15:39	26°♐22'30		
direct	9683 Dec 26	20:00	26°♐03'00		
asc. node	9683 Dec 28	00:26	26°♐08'57		
morning max el	9684 Jan 02	23:14	29°♐38'02	17°55'50	

	9684 Jan 03 08:00	0°♉	
morning set	9684 Jan 18 14:32	24°♉11'53	
	9684 Jan 21 18:46	0°♒	
superior conj	9684 Jan 29 00:01	12°♒52'48	0°15'45
minimum elong	9684 Jan 29 01:22	12°♒58'41	0°15'50
behind sun begin	9684 Jan 29 00:13	12°♒53'40	
behind sun end	9684 Jan 29 02:31	13°♒03'41	
desc. node	9684 Jan 31 02:13	16°♒29'47	
max. Earth dist.	9684 Feb 05 12:17	25°♒36'24	1.42653 AU
	9684 Feb 08 04:53	0°♓	
evening rise	9684 Feb 11 14:59	5°♓28'04	
	9684 Feb 27 22:38	0°♈	
evening max el	9684 Mar 15 02:54	20°♈37'29	22°11'38
retrograde	9684 Mar 24 15:55	26°♈16'20	
asc. node	9684 Mar 24 22:57	26°♈15'55	
evening set	9684 Mar 29 06:47	24°♈22'45	
inferior conj	9684 Apr 03 14:25	18°♈01'52	2°40'22
minimum elong	9684 Apr 03 12:19	18°♈09'10	2°39'48
min. Earth dist.	9684 Apr 03 12:39	18°♈08'01	0.68549 AU
morning rise	9684 Apr 08 17:42	11°♈51'05	
direct	9684 Apr 13 12:21	9°♈49'37	
morning max el	9684 Apr 22 22:17	15°♈20'45	22°10'57
desc. node	9684 Apr 28 02:36	21°♈11'06	
	9684 May 04 19:42	0°♉	
	9684 May 24 20:06	0°♊	
morning set	9684 May 26 03:37	2°♊06'50	
max. Earth dist.	9684 May 31 12:01	10°♊55'31	1.41105 AU
superior conj	9684 Jun 08 06:21	24°♊20'31	-1°41'58
minimum elong	9684 Jun 08 12:30	24°♊47'53	1°41'38
	9684 Jun 11 09:53	0°♋	
evening rise	9684 Jun 18 16:32	13°♋27'01	
asc. node	9684 Jun 20 21:39	17°♋33'55	
	9684 Jun 27 22:50	0°♌	
evening max el	9684 Jul 04 18:16	9°♌06'01	18°16'35
retrograde	9684 Jul 11 23:49	12°♌44'36	
evening set	9684 Jul 14 05:53	12°♌24'08	
inferior conj	9684 Jul 21 12:55	7°♌43'00	1°02'26
minimum elong	9684 Jul 21 14:55	7°♌38'46	1°01'25
min. Earth dist.	9684 Jul 24 21:48	4°♌52'20	0.58939 AU
desc. node	9684 Jul 25 01:56	4°♌44'02	
morning rise	9684 Jul 28 20:40	2°♌07'40	
direct	9684 Aug 04 02:49	0°♌21'42	
morning max el	9684 Aug 18 11:56	8°♌08'32	27°26'31
	9684 Sep 04 01:41	0°♍	
asc. node	9684 Sep 16 21:35	23°♍35'47	
morning set	9684 Sep 18 15:38	27°♍14'33	
	9684 Sep 19 22:47	0°♎	
superior conj	9684 Sep 25 16:30	12°♎34'59	1°18'10
minimum elong	9684 Sep 25 14:19	12°♎22'53	1°17'56
max. Earth dist.	9684 Sep 25 06:06	11°♎37'14	1.31527 AU
evening rise	9684 Oct 02 10:30	27°♎24'37	
	9684 Oct 03 15:49	0°♏	
	9684 Oct 20 10:11	0°♐	
desc. node	9684 Oct 21 00:06	0°♐50'07	
evening max el	9684 Oct 31 11:10	13°♐21'12	26°21'20
retrograde	9684 Nov 14 09:11	20°♐26'32	
evening set	9684 Nov 20 23:02	18°♐41'15	
min. Earth dist.	9684 Nov 25 00:25	16°♐06'34	0.58959 AU
inferior conj	9684 Nov 28 04:33	13°♐43'05	-4°34'36
minimum elong	9684 Nov 28 12:17	13°♐28'28	4°32'18
morning rise	9684 Dec 06 04:02	9°♐11'34	
direct	9684 Dec 08 08:40	8°♐55'00	
asc. node	9684 Dec 13 21:28	10°♐47'15	
morning max el	9684 Dec 16 09:01	12°♐50'22	18°24'18

	9684 Dec 27 21:48	0°♉	
morning set	9685 Jan 01 06:23	8°♉13'06	
superior conj	9685 Jan 10 09:00	25°♉26'54	0°48'50
minimum elong	9685 Jan 10 12:03	25°♉40'54	0°48'44
	9685 Jan 12 21:02	0°♒	
desc. node	9685 Jan 16 23:08	7°♒13'10	
max. Earth dist.	9685 Jan 17 21:32	8°♒49'45	1.40626 AU
evening rise	9685 Jan 22 07:29	16°♒15'45	
	9685 Jan 30 22:46	0°♓	
	9685 Feb 21 17:07	0°♈	
evening max el	9685 Feb 25 17:58	4°♈22'54	23°31'40
retrograde	9685 Mar 08 10:37	10°♈41'50	
asc. node	9685 Mar 11 20:08	9°♈46'17	
evening set	9685 Mar 13 13:07	8°♈33'56	
inferior conj	9685 Mar 18 23:10	2°♈06'33	2°07'26
minimum elong	9685 Mar 18 20:58	2°♈14'06	2°06'46
min. Earth dist.	9685 Mar 18 09:22	2°♈53'53	0.68453 AU
	9685 Mar 20 12:42	30°℞♓	
morning rise	9685 Mar 24 04:48	26°♓01'39	
direct	9685 Mar 28 09:54	24°♓22'16	
morning max el	9685 Apr 05 15:44	29°♓05'12	20°49'29
	9685 Apr 06 13:08	0°♈	
desc. node	9685 Apr 14 23:29	10°♈26'34	
	9685 Apr 28 10:35	0°♉	
morning set	9685 May 05 14:00	10°♉57'53	
max. Earth dist.	9685 May 13 17:09	23°♉52'58	1.43102 AU
	9685 May 17 10:47	0°♊	
superior conj	9685 May 20 13:37	5°♊12'24	-2°04'21
minimum elong	9685 May 20 18:41	5°♊33'42	2°04'24
evening rise	9685 Jun 01 12:40	25°♊59'46	
	9685 Jun 03 18:48	0°♋	
asc. node	9685 Jun 07 18:42	6°♋59'52	
evening max el	9685 Jun 18 06:25	22°♋08'13	18°04'51
retrograde	9685 Jun 24 20:26	25°♋31'08	
evening set	9685 Jun 27 10:14	24°♋59'54	
inferior conj	9685 Jul 04 00:23	19°♋59'05	2°09'24
minimum elong	9685 Jul 04 03:16	19°♋51'59	2°08'14
min. Earth dist.	9685 Jul 07 03:41	16°♋55'27	0.61199 AU
morning rise	9685 Jul 10 17:49	13°♋59'40	
desc. node	9685 Jul 11 23:04	13°♋14'48	
direct	9685 Jul 17 09:15	11°♋44'57	
morning max el	9685 Jul 31 15:31	19°♋45'07	27°55'28
	9685 Aug 09 09:21	0°♌	
	9685 Aug 27 23:33	0°♍	
morning set	9685 Sep 02 18:48	11°♍28'49	
asc. node	9685 Sep 03 18:28	13°♍31'41	
max. Earth dist.	9685 Sep 08 14:14	23°♍52'18	1.31770 AU
superior conj	9685 Sep 10 03:03	27°♍14'34	1°00'07
minimum elong	9685 Sep 10 00:52	27°♍02'32	0°59'42
	9685 Sep 11 09:01	0°♎	
evening rise	9685 Sep 16 21:06	12°♎03'35	
	9685 Sep 25 20:42	0°♏	
desc. node	9685 Oct 07 21:17	18°♏25'07	
evening max el	9685 Oct 13 02:58	24°♏10'13	25°00'21
	9685 Oct 21 12:33	0°♐	
retrograde	9685 Oct 26 23:24	1°♐08'24	
	9685 Nov 01 11:21	30°℞♏	
evening set	9685 Nov 01 14:35	29°♏56'42	
min. Earth dist.	9685 Nov 06 14:36	27°♏14'05	0.56992 AU
inferior conj	9685 Nov 09 09:15	25°♏24'39	-5°26'19
minimum elong	9685 Nov 09 14:32	25°♏15'55	5°25'21
morning rise	9685 Nov 17 16:47	21°♏15'34	
direct	9685 Nov 20 02:59	20°♏58'46	
morning max el	9685 Nov 29 09:20	25°♏24'17	19°14'16

asc. node	9685 Nov 30 18:29	26°♏49'20	
	9685 Dec 03 09:10	0°♐	
morning set	9685 Dec 16 07:10	22°♐37'38	
	9685 Dec 19 23:49	0°♑	
superior conj	9685 Dec 24 11:26	8°♑49'41	1°13'24
minimum elong	9685 Dec 24 14:30	9°♑04'33	1°13'24
max. Earth dist.	9685 Dec 31 03:18	21°♑19'34	1.38435 AU
evening rise	9686 Jan 03 21:38	28°♑00'17	
desc. node	9686 Jan 03 20:05	27°♑53'34	
	9686 Jan 05 01:21	0°♒	
	9686 Jan 24 09:48	0°♓	
evening max el	9686 Feb 08 07:23	18°♓11'01	24°50'17
retrograde	9686 Feb 20 01:28	25°♓01'55	
evening set	9686 Feb 25 16:10	22°♓41'39	
asc. node	9686 Feb 26 17:20	21°♓43'25	
min. Earth dist.	9686 Mar 02 04:39	17°♓36'15	0.67943 AU
inferior conj	9686 Mar 03 06:05	16°♓12'07	1°25'32
minimum elong	9686 Mar 03 04:16	16°♓18'09	1°24'59
morning rise	9686 Mar 08 16:36	10°♓14'28	
direct	9686 Mar 12 09:01	8°♓56'30	
morning max el	9686 Mar 19 16:47	13°♓01'10	19°40'41
greatest brilliancy	9686 Apr 01 10:31	29°♓35'46	-0.6m
desc. node	9686 Apr 01 20:20	0°♈11'49	
	9686 Apr 01 17:07	0°♈	
morning set	9686 Apr 14 12:14	19°♈21'17	
	9686 Apr 21 08:57	0°♉	
max. Earth dist.	9686 Apr 26 04:52	7°♉35'58	1.44607 AU
superior conj	9686 Apr 30 20:27	15°♉01'27	-2°12'42
minimum elong	9686 Apr 30 20:10	15°♉00'17	2°12'57
	9686 May 09 23:44	0°♊	
evening rise	9686 May 14 13:01	7°♊38'46	
asc. node	9686 May 25 15:46	26°♊02'30	
	9686 May 28 07:55	0°♋	
evening max el	9686 Jun 01 20:03	5°♋29'35	18°12'00
retrograde	9686 Jun 08 04:56	8°♋51'20	
evening set	9686 Jun 11 02:26	8°♋07'01	
inferior conj	9686 Jun 17 03:36	2°♋48'02	2°51'42
minimum elong	9686 Jun 17 05:55	2°♋41'37	2°50'54
	9686 Jun 19 16:33	30°℞♊	
min. Earth dist.	9686 Jun 19 18:40	29°♊54'19	0.63379 AU
morning rise	9686 Jun 23 07:52	26°♊35'10	
desc. node	9686 Jun 28 20:09	24°♊04'34	
direct	9686 Jun 30 01:22	23°♊59'42	
	9686 Jul 11 20:22	0°♋	
morning max el	9686 Jul 13 23:44	2°♋02'45	27°46'20
	9686 Aug 03 16:22	0°♌	
morning set	9686 Aug 17 15:01	25°♌20'25	
	9686 Aug 19 22:04	0°♍	
asc. node	9686 Aug 21 15:22	3°♍34'49	
max. Earth dist.	9686 Aug 22 16:46	5°♍48'51	1.32503 AU
superior conj	9686 Aug 25 10:30	11°♍41'16	0°37'17
minimum elong	9686 Aug 25 08:51	11°♍32'20	0°36'49
evening rise	9686 Sep 01 08:39	26°♍42'33	
	9686 Sep 02 21:55	0°♎	
	9686 Sep 20 13:05	0°♏	
evening max el	9686 Sep 24 14:04	4°♏25'36	23°22'29
desc. node	9686 Sep 24 18:29	4°♏36'13	
retrograde	9686 Oct 08 00:59	11°♏08'27	
evening set	9686 Oct 12 06:23	10°♏29'35	
min. Earth dist.	9686 Oct 18 23:52	7°♏20'48	0.55473 AU
inferior conj	9686 Oct 20 18:08	6°♏18'47	-5°40'50
minimum elong	9686 Oct 20 16:27	6°♏21'15	5°40'35
morning rise	9686 Oct 29 04:25	2°♏26'44	
direct	9686 Nov 01 02:26	2°♏06'07	
morning max el	9686 Nov 11 21:01	7°♏10'48	20°26'47
asc. node	9686 Nov 17 15:28	13°♏59'49	
	9686 Nov 26 23:01	0°♐	
morning set	9686 Nov 30 13:50	7°♐17'07	
superior conj	9686 Dec 08 02:41	22°♐48'19	1°29'41
minimum elong	9686 Dec 08 04:53	22°♐59'26	1°29'51
	9686 Dec 11 17:13	0°♑	
max. Earth dist.	9686 Dec 13 10:37	3°♑20'49	1.36331 AU
evening rise	9686 Dec 17 07:23	10°♑36'11	
desc. node	9686 Dec 21 17:04	18°♑27'16	
	9686 Dec 28 16:03	0°♒	
	9687 Jan 19 21:36	0°♓	
evening max el	9687 Jan 21 20:46	1°♓59'35	26°00'18
retrograde	9687 Feb 03 11:25	9°♓10'37	
evening set	9687 Feb 09 14:16	6°♓41'02	
asc. node	9687 Feb 13 14:29	2°♓27'43	
min. Earth dist.	9687 Feb 13 20:11	2°♓10'16	0.67044 AU
inferior conj	9687 Feb 15 09:14	0°♓14'39	0°34'52
minimum elong	9687 Feb 15 08:21	0°♓17'24	0°34'43
	9687 Feb 15 13:56	30°℞♒	
morning rise	9687 Feb 21 03:04	24°♒26'09	
direct	9687 Feb 24 08:11	23°♒27'15	
morning max el	9687 Mar 03 01:18	27°♒05'52	18°47'17
	9687 Mar 05 16:37	0°♓	
desc. node	9687 Mar 19 17:09	20°♓18'47	
morning set	9687 Mar 24 22:12	28°♓26'07	
	9687 Mar 25 22:14	0°♈	
max. Earth dist.	9687 Apr 08 22:05	21°♈52'14	1.45456 AU
superior conj	9687 Apr 10 07:31	24°♈03'19	-2°01'37
minimum elong	9687 Apr 10 00:08	23°♈34'21	2°01'18
	9687 Apr 14 02:14	0°♉	
evening rise	9687 Apr 25 13:55	18°♉18'35	
greatest brilliancy	9687 May 01 23:07	28°♉35'27	-0.9m
	9687 May 02 20:15	0°♊	
asc. node	9687 May 12 12:52	14°♊34'01	
evening max el	9687 May 16 08:15	19°♊02'40	18°37'14
retrograde	9687 May 22 21:13	22°♊36'46	
evening set	9687 May 26 02:31	21°♊37'56	
inferior conj	9687 May 31 18:33	16°♊02'09	3°13'49
minimum elong	9687 May 31 19:42	15°♊58'38	3°13'22
min. Earth dist.	9687 Jun 02 18:41	13°♊36'09	0.65276 AU
morning rise	9687 Jun 06 12:06	9°♊43'30	
direct	9687 Jun 13 01:12	6°♊58'49	
desc. node	9687 Jun 15 17:12	7°♊22'39	
morning max el	9687 Jun 26 10:02	14°♊52'11	27°03'38
	9687 Jul 08 18:17	0°♋	
	9687 Jul 27 10:04	0°♌	
morning set	9687 Aug 01 01:23	8°♌40'54	
max. Earth dist.	9687 Aug 05 10:20	17°♌19'57	1.33745 AU
asc. node	9687 Aug 08 12:15	23°♌40'23	
superior conj	9687 Aug 09 12:37	25°♌48'06	0°10'07
minimum elong	9687 Aug 09 12:06	25°♌45'23	0°09'46
behind sun begin	9687 Aug 09 07:36	25°♌21'42	
behind sun end	9687 Aug 09 16:37	26°♌09'07	
	9687 Aug 11 12:15	0°♍	
evening rise	9687 Aug 16 19:14	11°♍15'12	
	9687 Aug 26 10:31	0°♎	
evening max el	9687 Sep 06 04:33	14°♎38'53	21°44'24
desc. node	9687 Sep 11 15:42	18°♎52'57	
retrograde	9687 Sep 18 15:17	20°♎49'58	
evening set	9687 Sep 21 10:48	20°♎32'08	
inferior conj	9687 Sep 30 12:48	16°♎34'15	-5°00'53
minimum elong	9687 Sep 30 04:09	16°♎46'21	4°59'04
min. Earth dist.	9687 Sep 30 07:24	16°♎41'48	0.54695 AU

morning rise	9687 Oct 08 22:40	12°♎45'50	
direct	9687 Oct 12 12:45	12°♎17'45	
morning max el	9687 Oct 24 19:22	18°♎06'33	22°00'07
	9687 Nov 03 05:55	0°♏	
asc. node	9687 Nov 04 12:24	2°♏02'41	
morning set	9687 Nov 14 23:57	22°♏03'58	
	9687 Nov 18 17:41	0°♐	
superior conj	9687 Nov 22 02:57	7°♐11'14	1°38'24
minimum elong	9687 Nov 22 03:55	7°♐16'23	1°38'41
max. Earth dist.	9687 Nov 26 00:13	15°♐14'28	1.34501 AU
evening rise	9687 Nov 30 08:59	23°♐53'04	
	9687 Dec 03 14:56	0°♑	
desc. node	9687 Dec 08 14:05	8°♑49'07	
	9687 Dec 22 06:36	0°♒	
evening max el	9688 Jan 04 10:17	15°♒40'58	26°54'23
retrograde	9688 Jan 17 15:34	23°♒01'08	
evening set	9688 Jan 24 05:32	20°♒26'42	
min. Earth dist.	9688 Jan 28 05:40	16°♒30'14	0.65771 AU
inferior conj	9688 Jan 30 06:28	14°♒09'25	-0°24'14
minimum elong	9688 Jan 30 07:09	14°♒07'27	0°23'40
asc. node	9688 Jan 31 11:38	12°♒46'22	
morning rise	9688 Feb 05 09:57	8°♒32'31	
direct	9688 Feb 08 05:19	7°♒49'26	
morning max el	9688 Feb 14 15:32	11°♒14'01	18°10'29
	9688 Feb 27 23:11	0°♓	
morning set	9688 Mar 04 11:41	8°♓55'11	
desc. node	9688 Mar 05 13:59	10°♓41'28	
	9688 Mar 17 16:11	0°♈	
superior conj	9688 Mar 19 13:43	2°♈59'12	-1°31'21
minimum elong	9688 Mar 19 04:20	2°♈22'17	1°30'21
max. Earth dist.	9688 Mar 21 18:06	6°♈24'38	1.45564 AU
evening rise	9688 Apr 04 16:23	28°♈06'46	
	9688 Apr 05 21:32	0°♉	
greatest brilliancy	9688 Apr 16 16:56	16°♉39'12	-0.7m
	9688 Apr 26 06:27	0°♊	
asc. node	9688 Apr 28 09:59	2°♊24'36	
evening max el	9688 Apr 28 16:41	2°♊41'41	19°19'33
retrograde	9688 May 05 18:03	6°♊40'36	
evening set	9688 May 09 07:31	5°♊26'34	
	9688 May 14 10:18	30°℞♉	
inferior conj	9688 May 14 17:50	29°♉35'28	3°19'54
minimum elong	9688 May 14 17:46	29°♉35'42	3°19'36
min. Earth dist.	9688 May 16 02:46	27°♉48'08	0.66769 AU
morning rise	9688 May 20 03:37	23°♉15'49	
direct	9688 May 26 07:32	20°♉33'16	
desc. node	9688 Jun 01 14:10	22°♉45'02	
morning max el	9688 Jun 07 20:27	28°♉02'55	25°55'26
	9688 Jun 09 16:54	0°♊	
	9688 Jul 01 11:41	0°♋	
morning set	9688 Jul 13 22:19	21°♋21'30	
max. Earth dist.	9688 Jul 17 17:30	28°♋30'12	1.35464 AU
	9688 Jul 18 12:08	0°♌	
superior conj	9688 Jul 23 06:55	9°♌28'53	-0°20'33
minimum elong	9688 Jul 23 08:08	9°♌35'07	0°20'37
asc. node	9688 Jul 25 09:10	13°♌45'07	
evening rise	9688 Jul 31 02:51	25°♌36'17	
	9688 Aug 02 06:36	0°♍	
evening max el	9688 Aug 18 06:16	25°♍23'21	20°19'54
	9688 Aug 24 22:53	0°♎	
desc. node	9688 Aug 28 12:52	0°♎46'28	
retrograde	9688 Aug 29 03:45	0°♎47'29	
evening set	9688 Aug 31 03:36	0°♎37'25	
	9688 Sep 02 13:48	30°℞♍	
inferior conj	9688 Sep 09 06:14	26°♍39'38	-3°29'29
minimum elong	9688 Sep 08 21:13	26°♍52'50	3°26'33
min. Earth dist.	9688 Sep 10 16:24	25°♍49'34	0.54847 AU
morning rise	9688 Sep 17 14:07	22°♍33'52	
direct	9688 Sep 21 21:59	21°♍53'34	
morning max el	9688 Oct 05 08:51	28°♍25'51	23°46'03
	9688 Oct 06 23:00	0°♎	
asc. node	9688 Oct 21 09:19	20°♎45'27	
	9688 Oct 26 04:19	0°♏	
morning set	9688 Oct 29 11:36	6°♏52'38	
superior conj	9688 Nov 05 09:16	21°♏49'49	1°40'20
minimum elong	9688 Nov 05 09:01	21°♏48'30	1°40'36
max. Earth dist.	9688 Nov 07 21:49	27°♏15'11	1.33068 AU
	9688 Nov 09 04:59	0°♐	
evening rise	9688 Nov 12 22:46	7°♐41'31	
desc. node	9688 Nov 24 11:08	28°♐53'12	
	9688 Nov 25 03:12	0°♑	
evening max el	9688 Dec 16 22:47	29°♑03'46	27°25'23
	9688 Dec 17 23:00	0°♒	
retrograde	9688 Dec 30 13:25	6°♒24'59	
evening set	9689 Jan 06 11:38	3°♒52'13	
min. Earth dist.	9689 Jan 10 06:55	0°♒28'12	0.64151 AU
	9689 Jan 10 17:54	30°℞♑	
inferior conj	9689 Jan 12 19:16	27°♑50'13	-1°30'57
minimum elong	9689 Jan 12 22:07	27°♑42'45	1°29'26
asc. node	9689 Jan 17 08:45	23°♑37'53	
morning rise	9689 Jan 19 10:24	22°♑27'49	
direct	9689 Jan 21 21:53	21°♑56'52	
morning max el	9689 Jan 28 08:47	25°♑18'09	17°50'43
	9689 Feb 01 07:28	0°♒	
morning set	9689 Feb 14 05:34	20°♒47'12	
	9689 Feb 19 16:50	0°♓	
desc. node	9689 Feb 20 10:48	1°♓14'51	
superior conj	9689 Feb 27 09:36	12°♓38'35	-0°49'45
minimum elong	9689 Feb 27 04:05	12°♓16'20	0°48'52
max. Earth dist.	9689 Mar 04 13:27	20°♓53'23	1.44932 AU
	9689 Mar 10 08:59	0°♈	
evening rise	9689 Mar 15 05:06	7°♈27'59	
	9689 Mar 30 05:16	0°♉	
evening max el	9689 Apr 11 19:46	16°♉22'07	20°17'16
asc. node	9689 Apr 15 07:09	19°♉20'56	
retrograde	9689 Apr 19 16:40	20°♉56'07	
evening set	9689 Apr 23 15:07	19°♉26'40	
inferior conj	9689 Apr 28 22:35	13°♉22'04	3°13'01
minimum elong	9689 Apr 28 21:28	13°♉25'52	3°12'40
min. Earth dist.	9689 Apr 29 17:15	12°♉18'24	0.67814 AU
morning rise	9689 May 04 03:35	7°♉04'19	
direct	9689 May 09 19:28	4°♉33'03	
desc. node	9689 May 19 11:07	9°♉40'38	
morning max el	9689 May 21 06:01	11°♉24'26	24°31'21
	9689 Jun 05 02:23	0°♊	
	9689 Jun 24 05:22	0°♋	
morning set	9689 Jun 26 01:07	3°♋09'36	
max. Earth dist.	9689 Jun 29 16:14	9°♋37'31	1.37554 AU
superior conj	9689 Jul 06 14:08	22°♋35'01	-0°53'11
minimum elong	9689 Jul 06 17:33	22°♋51'32	0°52'56
	9689 Jul 10 08:56	0°♌	
asc. node	9689 Jul 12 06:06	3°♌44'43	
evening rise	9689 Jul 15 05:00	9°♌38'31	
	9689 Jul 26 09:57	0°♍	
evening max el	9689 Jul 31 21:37	6°♍53'48	19°15'31
retrograde	9689 Aug 10 02:48	11°♍28'09	
evening set	9689 Aug 11 23:13	11°♍17'52	
desc. node	9689 Aug 15 10:02	10°♍09'10	
inferior conj	9689 Aug 20 12:38	7°♍08'05	-1°34'52

minimum elong	9689 Aug 20 08:26	7°♍15'04	1°33'23
min. Earth dist.	9689 Aug 23 05:12	5°♍21'12	0.55918 AU
morning rise	9689 Aug 28 14:47	2°♍28'10	
direct	9689 Sep 02 18:08	1°♍27'33	
morning max el	9689 Sep 16 21:03	8°♍37'06	25°29'22
	9689 Oct 02 19:07	0°♎	
asc. node	9689 Oct 08 06:12	9°♎58'24	
morning set	9689 Oct 13 23:06	21°♎38'27	
	9689 Oct 17 19:21	0°♏	
superior conj	9689 Oct 20 19:18	6°♏37'06	1°36'07
minimum elong	9689 Oct 20 18:02	6°♏30'08	1°36'15
max. Earth dist.	9689 Oct 22 02:26	9°♏28'26	1.32091 AU
evening rise	9689 Oct 27 21:36	21°♏53'39	
	9689 Oct 31 22:16	0°♐	
desc. node	9689 Nov 11 08:14	18°♐32'05	
	9689 Nov 19 01:47	0°♑	
evening max el	9689 Nov 29 08:29	11°♑56'11	27°27'03
retrograde	9689 Dec 13 04:22	19°♑13'01	
evening set	9689 Dec 20 05:41	16°♑50'52	
min. Earth dist.	9689 Dec 23 22:24	13°♑54'13	0.62243 AU
inferior conj	9689 Dec 26 20:42	11°♑10'09	-2°43'05
minimum elong	9689 Dec 27 02:03	10°♑57'38	2°40'42
morning rise	9690 Jan 03 00:48	6°♑05'11	
asc. node	9690 Jan 04 05:50	5°♑47'31	
direct	9690 Jan 05 06:44	5°♑42'39	
morning max el	9690 Jan 12 01:55	9°♑10'18	17°48'39
	9690 Jan 25 19:39	0°♒	
morning set	9690 Jan 27 22:08	3°♒44'19	
desc. node	9690 Feb 07 07:40	21°♒55'17	
superior conj	9690 Feb 08 05:40	23°♒28'30	-0°06'52
minimum elong	9690 Feb 08 05:01	23°♒25'47	0°06'32
behind sun begin	9690 Feb 07 20:53	22°♒51'21	
behind sun end	9690 Feb 08 13:09	24°♒00'08	
	9690 Feb 12 03:29	0°♓	
max. Earth dist.	9690 Feb 15 05:37	5°♓02'36	1.43639 AU
evening rise	9690 Feb 22 19:06	17°♓01'07	
	9690 Mar 03 07:49	0°♈	
evening max el	9690 Mar 25 17:20	0°♉04'08	21°27'22
	9690 Mar 25 15:42	0°♉	
asc. node	9690 Apr 02 04:19	5°♉08'42	
retrograde	9690 Apr 03 15:02	5°♉19'08	
evening set	9690 Apr 07 23:29	3°♉34'25	
	9690 Apr 11 07:00	30°℞♈	
inferior conj	9690 Apr 13 06:29	27°♈18'38	2°55'10
minimum elong	9690 Apr 13 04:38	27°♈25'03	2°54'40
min. Earth dist.	9690 Apr 13 11:58	26°♈59'33	0.68410 AU
morning rise	9690 Apr 18 09:36	21°♈04'41	
direct	9690 Apr 23 12:07	18°♈51'06	
morning max el	9690 May 03 16:00	24°♈52'57	23°01'26
desc. node	9690 May 06 08:03	27°♈44'41	
	9690 May 08 06:27	0°♉	
	9690 May 29 13:27	0°♊	
morning set	9690 Jun 07 04:27	13°♊51'34	
max. Earth dist.	9690 Jun 11 12:36	21°♊11'50	1.39824 AU
	9690 Jun 16 12:47	0°♋	
superior conj	9690 Jun 19 06:19	4°♋57'19	-1°25'16
minimum elong	9690 Jun 19 11:48	5°♋22'30	1°24'52
evening rise	9690 Jun 28 22:39	23°♋13'53	
asc. node	9690 Jun 29 03:05	23°♋35'08	
	9690 Jul 02 12:17	0°♌	
evening max el	9690 Jul 15 00:13	19°♌07'54	18°32'16
retrograde	9690 Jul 22 19:51	23°♌02'11	
evening set	9690 Jul 24 21:38	22°♌46'34	
inferior conj	9690 Aug 01 15:48	18°♌17'45	0°11'41
minimum elong	9690 Aug 01 16:14	18°♌16'55	0°11'15
transit middle	9690 Aug 01 16:14	18°♌16'55	0°11'15
transit begin	9690 Aug 01 13:39	18°♌21'55	
transit end	9690 Aug 01 18:48	18°♌11'55	
desc. node	9690 Aug 02 07:14	17°♌47'39	
min. Earth dist.	9690 Aug 04 23:12	15°♌44'40	0.57710 AU
morning rise	9690 Aug 09 07:16	13°♌00'55	
direct	9690 Aug 15 05:15	11°♌32'06	
morning max el	9690 Aug 29 13:45	19°♌08'24	26°52'48
	9690 Sep 07 18:32	0°♍	
asc. node	9690 Sep 25 03:05	29°♍33'00	
	9690 Sep 25 08:25	0°♎	
morning set	9690 Sep 28 08:45	6°♎15'56	
superior conj	9690 Oct 05 06:57	21°♎25'58	1°26'16
minimum elong	9690 Oct 05 05:00	21°♎15'04	1°26'11
max. Earth dist.	9690 Oct 05 11:14	21°♎49'48	1.31593 AU
	9690 Oct 09 03:57	0°♏	
evening rise	9690 Oct 12 02:44	6°♏21'23	
	9690 Oct 24 11:33	0°♐	
desc. node	9690 Oct 29 05:23	7°♐34'50	
evening max el	9690 Nov 11 12:49	24°♐05'23	26°55'10
	9690 Nov 19 21:57	0°♑	
retrograde	9690 Nov 25 10:58	1°♑14'56	
	9690 Nov 30 20:05	30°℞♐	
evening set	9690 Dec 02 07:44	29°♐13'44	
min. Earth dist.	9690 Dec 06 03:20	26°♐34'48	0.60162 AU
inferior conj	9690 Dec 09 07:20	23°♐59'14	-3°55'55
minimum elong	9690 Dec 09 14:43	23°♐44'03	3°53'16
morning rise	9690 Dec 17 00:16	19°♐14'34	
direct	9690 Dec 19 04:00	18°♐56'49	
asc. node	9690 Dec 22 02:54	19°♐31'44	
morning max el	9690 Dec 26 15:23	22°♐39'49	18°05'25
	9691 Jan 01 09:03	0°♑	
morning set	9691 Jan 11 06:58	17°♑26'24	
	9691 Jan 18 01:39	0°♒	
superior conj	9691 Jan 21 02:13	5°♒27'13	0°30'46
minimum elong	9691 Jan 21 04:32	5°♒37'34	0°30'44
desc. node	9691 Jan 25 04:34	12°♒38'26	
max. Earth dist.	9691 Jan 28 17:14	18°♒38'11	1.41828 AU
evening rise	9691 Feb 02 23:47	27°♒17'07	
	9691 Feb 04 16:35	0°♓	
	9691 Feb 25 00:49	0°♈	
evening max el	9691 Mar 08 10:24	13°♈48'26	22°45'28
retrograde	9691 Mar 18 11:22	19°♈44'57	
asc. node	9691 Mar 20 01:30	19°♈32'33	
evening set	9691 Mar 23 07:00	17°♈45'23	
inferior conj	9691 Mar 28 15:29	11°♈21'24	2°27'32
minimum elong	9691 Mar 28 13:17	11°♈29'01	2°26'54
min. Earth dist.	9691 Mar 28 08:37	11°♈45'12	0.68563 AU
morning rise	9691 Apr 02 19:26	5°♈12'46	
direct	9691 Apr 07 08:19	3°♈20'23	
morning max el	9691 Apr 16 05:37	8°♈30'09	21°34'54
desc. node	9691 Apr 23 04:56	16°♈38'10	
	9691 May 02 20:48	0°♉	
morning set	9691 May 18 04:51	23°♉19'37	
	9691 May 22 08:26	0°♊	
max. Earth dist.	9691 May 24 13:36	3°♊37'58	1.42005 AU
superior conj	9691 Jun 01 02:56	16°♊25'38	-1°52'45
minimum elong	9691 Jun 01 09:04	16°♊52'16	1°52'34
	9691 Jun 08 18:07	0°♋	
evening rise	9691 Jun 12 03:57	6°♋12'54	
asc. node	9691 Jun 16 00:07	13°♋11'53	
	9691 Jun 26 15:28	0°♌	
evening max el	9691 Jun 28 10:03	1°♌56'07	18°09'17

retrograde	9691 Jul	05	07:27	5°♌25'47	
evening set	9691 Jul	07	16:55	5°♌00'58	
inferior conj	9691 Jul	14	16:20	0°♌11'23	1°34'04
minimum elong	9691 Jul	14	18:57	0°♌05'27	1°32'54
	9691 Jul	14	21:21	30°℞♋	
min. Earth dist.	9691 Jul	18	00:03	27°♋12'21	0.59898 AU
desc. node	9691 Jul	20	04:23	25°♋27'51	
morning rise	9691 Jul	21	18:02	24°♋24'50	
direct	9691 Jul	28	05:15	22°♋25'51	
	9691 Aug	11	05:35	0°♌	
morning max el	9691 Aug	11	13:18	0°♌18'56	27°43'33
	9691 Sep	01	20:54	0°♍	
asc. node	9691 Sep	11	23:58	19°♍22'56	
morning set	9691 Sep	12	14:51	20°♍40'22	
	9691 Sep	16	23:14	0°♎	
max. Earth dist.	9691 Sep	18	20:48	4°♎10'56	1.31572 AU
superior conj	9691 Sep	19	18:26	6°♎10'48	1°11'08
minimum elong	9691 Sep	19	16:12	5°♎58'22	1°10'49
evening rise	9691 Sep	26	11:57	20°♎58'26	
	9691 Sep	30	20:10	0°♏	
desc. node	9691 Oct	16	02:34	25°♏47'19	
	9691 Oct	19	09:27	0°♐	
evening max el	9691 Oct	24	09:30	5°♐23'46	25°50'03
retrograde	9691 Nov	07	07:18	12°♐25'37	
evening set	9691 Nov	13	13:03	10°♐54'23	
min. Earth dist.	9691 Nov	17	22:07	8°♐18'32	0.58091 AU
inferior conj	9691 Nov	20	23:40	6°♐07'55	-4°59'46
minimum elong	9691 Nov	21	06:55	5°♐54'59	4°57'57
morning rise	9691 Nov	29	03:08	1°♐45'44	
direct	9691 Dec	01	09:29	1°♐29'24	
asc. node	9691 Dec	08	23:55	4°♐47'07	
morning max el	9691 Dec	09	21:29	5°♐36'35	18°42'45
	9691 Dec	25	06:41	0°♑	
morning set	9691 Dec	26	03:01	1°♑38'48	
superior conj	9692 Jan	03	19:09	18°♑23'12	1°00'18
minimum elong	9692 Jan	03	22:22	18°♑38'18	1°00'13
	9692 Jan	10	03:41	0°♒	
max. Earth dist.	9692 Jan	11	00:50	1°♒33'17	1.39706 AU
desc. node	9692 Jan	12	01:29	3°♒20'53	
evening rise	9692 Jan	15	01:30	8°♒29'07	
	9692 Jan	28	15:58	0°♓	
evening max el	9692 Feb	19	00:42	27°♓35'43	24°05'45
	9692 Feb	21	15:04	0°♈	
retrograde	9692 Mar	01	04:24	4°♈08'44	
asc. node	9692 Mar	05	22:41	2°♈22'28	
evening set	9692 Mar	06	12:07	1°♈55'23	
	9692 Mar	08	10:26	30°℞♓	
min. Earth dist.	9692 Mar	11	04:56	26°♓30'11	0.68290 AU
inferior conj	9692 Mar	11	23:40	25°♓26'48	1°50'44
minimum elong	9692 Mar	11	21:34	25°♓33'54	1°50'06
morning rise	9692 Mar	17	07:04	19°♓24'52	
direct	9692 Mar	21	06:45	17°♓54'37	
morning max el	9692 Mar	29	02:05	22°♓19'18	20°18'27
	9692 Apr	04	14:31	0°♈	
desc. node	9692 Apr	09	01:47	6°♈07'26	
	9692 Apr	25	02:34	0°♉	
morning set	9692 Apr	26	07:32	1°♉51'39	
max. Earth dist.	9692 May	05	22:13	16°♉58'45	1.43819 AU
superior conj	9692 May	11	23:52	26°♉50'57	-2°09'59
minimum elong	9692 May	12	03:11	27°♉04'38	2°10'11
	9692 May	13	21:28	0°♊	
evening rise	9692 May	24	16:16	18°♊24'25	
	9692 May	31	09:30	0°♋	
asc. node	9692 Jun	01	21:11	2°♋29'01	
evening max el	9692 Jun	10	23:15	15°♋07'51	18°05'34
retrograde	9692 Jun	17	09:44	18°♋28'26	
evening set	9692 Jun	20	02:55	17°♋51'43	
inferior conj	9692 Jun	26	11:01	12°♋42'41	2°30'05
minimum elong	9692 Jun	26	13:46	12°♋35'30	2°29'03
min. Earth dist.	9692 Jun	29	09:31	9°♋41'03	0.62154 AU
morning rise	9692 Jul	02	22:38	6°♋36'33	
desc. node	9692 Jul	06	01:30	4°♋53'02	
direct	9692 Jul	09	15:47	4°♋12'07	
morning max el	9692 Jul	23	19:10	12°♋13'55	27°56'07
	9692 Aug	06	21:15	0°♌	
	9692 Aug	24	06:23	0°♍	
morning set	9692 Aug	26	15:20	4°♍45'40	
asc. node	9692 Aug	28	20:51	9°♍22'26	
max. Earth dist.	9692 Sep	01	03:12	16°♍20'15	1.32028 AU
superior conj	9692 Sep	03	03:53	20°♍45'24	0°51'00
minimum elong	9692 Sep	03	01:51	20°♍34'17	0°50'32
	9692 Sep	07	08:51	0°♎	
evening rise	9692 Sep	09	23:11	5°♎38'11	
	9692 Sep	22	16:54	0°♏	
desc. node	9692 Oct	01	23:45	12°♏49'44	
evening max el	9692 Oct	04	22:31	15°♏54'57	24°19'44
retrograde	9692 Oct	18	15:49	22°♏47'41	
evening set	9692 Oct	23	17:56	21°♏50'33	
min. Earth dist.	9692 Oct	29	09:19	18°♏59'10	0.56277 AU
inferior conj	9692 Oct	31	19:35	17°♏28'39	-5°38'15
minimum elong	9692 Oct	31	22:22	17°♏24'18	5°37'49
morning rise	9692 Nov	09	04:55	13°♏28'07	
direct	9692 Nov	11	19:42	13°♏10'00	
morning max el	9692 Nov	21	16:37	17°♏50'43	19°42'25
asc. node	9692 Nov	24	20:54	21°♏20'00	
	9692 Nov	30	17:37	0°♐	
morning set	9692 Dec	09	06:38	16°♐10'54	
	9692 Dec	16	02:47	0°♑	
superior conj	9692 Dec	17	03:32	2°♑02'54	1°21'17
minimum elong	9692 Dec	17	06:19	2°♑16'35	1°21'21
max. Earth dist.	9692 Dec	23	07:01	13°♑50'27	1.37515 AU
evening rise	9692 Dec	27	00:20	20°♑36'21	
desc. node	9692 Dec	28	22:26	23°♑59'07	
	9693 Jan	01	11:09	0°♒	
	9693 Jan	21	16:26	0°♓	
evening max el	9693 Jan	31	13:56	11°♓24'45	25°21'32
retrograde	9693 Feb	12	17:10	18°♓25'26	
evening set	9693 Feb	18	13:16	16°♓00'28	
asc. node	9693 Feb	20	19:51	13°♓44'58	
min. Earth dist.	9693 Feb	22	22:46	11°♓10'10	0.67608 AU
inferior conj	9693 Feb	24	05:13	9°♓31'46	1°05'06
minimum elong	9693 Feb	24	03:43	9°♓36'37	1°04'42
morning rise	9693 Mar	01	18:33	3°♓38'04	
direct	9693 Mar	05	06:01	2°♓28'35	
morning max el	9693 Mar	12	06:33	6°♓20'24	19°16'06
greatest brilliancy	9693 Mar	25	05:22	23°♓28'11	-0.7m
desc. node	9693 Mar	26	22:37	26°♓03'02	
	9693 Mar	29	13:04	0°♈	
morning set	9693 Apr	05	08:01	10°♈25'46	
	9693 Apr	17	21:45	0°♉	
max. Earth dist.	9693 Apr	18	13:03	1°♉00'13	1.45054 AU
superior conj	9693 Apr	21	21:08	6°♉16'49	-2°10'33
minimum elong	9693 Apr	21	17:40	6°♉03'02	2°10'39
evening rise	9693 May	06	07:02	29°♉39'32	
	9693 May	06	11:59	0°♊	
asc. node	9693 May	19	18:16	21°♊19'59	
evening max el	9693 May	25	12:34	28°♊35'12	18°20'26
	9693 May	27	02:18	0°♋	

retrograde	9693 May 31 22:12	2°♋00'54	
evening set	9693 Jun 03 22:55	1°♋10'35	
	9693 Jun 05 16:09	30°℞♊	
inferior conj	9693 Jun 09 19:44	25°♊43'59	3°03'15
minimum elong	9693 Jun 09 21:35	25°♊38'36	3°02'37
min. Earth dist.	9693 Jun 12 04:30	23°♊00'24	0.64230 AU
morning rise	9693 Jun 15 19:05	19°♊27'38	
direct	9693 Jun 22 11:13	16°♊47'03	
desc. node	9693 Jun 22 22:33	16°♊47'47	
morning max el	9693 Jul 06 04:52	24°♊47'49	27°31'51
	9693 Jul 10 22:06	0°♋	
	9693 Jul 31 08:04	0°♌	
morning set	9693 Aug 10 07:46	18°♌25'20	
max. Earth dist.	9693 Aug 15 02:26	28°♌07'14	1.32976 AU
asc. node	9693 Aug 15 17:44	29°♌27'13	
	9693 Aug 15 23:59	0°♍	
superior conj	9693 Aug 18 09:20	5°♍04'17	0°26'14
minimum elong	9693 Aug 18 08:05	4°♍57'38	0°25'48
evening rise	9693 Aug 25 10:34	20°♍15'10	
	9693 Aug 30 03:57	0°♎	
evening max el	9693 Sep 16 09:37	26°♎03'51	22°39'38
desc. node	9693 Sep 18 20:57	28°♎15'58	
	9693 Sep 21 06:58	0°♏	
retrograde	9693 Sep 29 12:22	2°♏36'15	
evening set	9693 Oct 03 02:22	2°♏08'02	
	9693 Oct 08 09:12	30°℞♎	
min. Earth dist.	9693 Oct 10 17:18	28°♎43'11	0.55033 AU
inferior conj	9693 Oct 11 21:09	28°♎03'33	-5°31'01
minimum elong	9693 Oct 11 16:02	28°♎10'51	5°30'20
morning rise	9693 Oct 20 07:32	24°♎15'35	
direct	9693 Oct 23 11:49	23°♎52'27	
morning max el	9693 Nov 03 22:30	29°♎15'23	21°04'25
	9693 Nov 04 16:56	0°♏	
asc. node	9693 Nov 11 17:51	8°♏54'22	
	9693 Nov 23 04:31	0°♐	
morning set	9693 Nov 23 14:59	0°♐54'12	
superior conj	9693 Nov 30 23:01	16°♐13'17	1°34'15
minimum elong	9693 Dec 01 00:43	16°♐22'02	1°34'29
max. Earth dist.	9693 Dec 05 16:16	25°♐44'52	1.35499 AU
	9693 Dec 07 20:46	0°♑	
evening rise	9693 Dec 09 17:13	3°♑30'41	
desc. node	9693 Dec 15 19:25	14°♑28'24	
	9693 Dec 25 09:25	0°♒	
evening max el	9694 Jan 14 03:08	25°♒10'32	26°25'42
	9694 Jan 20 00:29	0°♓	
retrograde	9694 Jan 27 00:52	2°♓27'35	
evening set	9694 Feb 02 08:42	29°♒54'59	
	9694 Feb 02 06:13	30°℞♒	
min. Earth dist.	9694 Feb 06 11:55	25°♒39'05	0.66540 AU
asc. node	9694 Feb 07 16:59	24°♒11'20	
inferior conj	9694 Feb 08 06:05	23°♒31'31	0°10'48
minimum elong	9694 Feb 08 05:47	23°♒32'25	0°10'55
transit middle	9694 Feb 08 05:47	23°♒32'25	0°10'55
transit begin	9694 Feb 08 03:40	23°♒38'51	
transit end	9694 Feb 08 07:55	23°♒25'59	
morning rise	9694 Feb 14 03:46	17°♒47'52	
direct	9694 Feb 17 04:26	16°♒56'19	
morning max el	9694 Feb 23 17:51	20°♒27'47	18°29'38
	9694 Mar 03 06:29	0°♓	
desc. node	9694 Mar 13 19:24	16°♓17'13	
morning set	9694 Mar 16 04:37	20°♓03'38	
	9694 Mar 22 11:39	0°♈	
superior conj	9694 Apr 01 03:47	15°♈09'53	-1°50'49
minimum elong	9694 Mar 31 18:39	14°♈34'10	1°50'09
max. Earth dist.	9694 Apr 01 07:19	15°♈23'41	1.45588 AU
	9694 Apr 10 14:59	0°♉	
evening rise	9694 Apr 16 21:49	9°♉55'14	
greatest brilliancy	9694 Apr 26 02:02	24°♉24'38	-0.8m
	9694 Apr 29 17:20	0°♊	
asc. node	9694 May 06 15:23	9°♊35'38	
evening max el	9694 May 08 23:20	12°♊11'13	18°53'12
retrograde	9694 May 15 16:49	15°♊54'48	
evening set	9694 May 19 01:24	14°♊49'46	
inferior conj	9694 May 24 14:38	9°♊07'21	3°18'09
minimum elong	9694 May 24 15:15	9°♊05'23	3°17'47
min. Earth dist.	9694 May 26 08:19	6°♊56'31	0.65961 AU
morning rise	9694 May 30 04:29	2°♊47'32	
direct	9694 Jun 05 14:06	0°♊02'16	
desc. node	9694 Jun 09 19:33	1°♊02'21	
morning max el	9694 Jun 18 15:32	7°♊48'20	26°37'10
	9694 Jul 05 21:27	0°♋	
	9694 Jul 23 17:37	0°♌	
morning set	9694 Jul 24 13:00	1°♌31'09	
max. Earth dist.	9694 Jul 28 15:28	9°♌28'06	1.34417 AU
superior conj	9694 Aug 02 08:30	19°♌01'36	-0°02'34
minimum elong	9694 Aug 02 08:40	19°♌02'24	0°02'48
behind sun begin	9694 Aug 02 02:55	18°♌32'40	
behind sun end	9694 Aug 02 14:25	19°♌32'12	
asc. node	9694 Aug 02 14:39	19°♌33'29	
	9694 Aug 07 14:03	0°♍	
evening rise	9694 Aug 09 20:11	4°♍44'09	
	9694 Aug 23 18:35	0°♎	
evening max el	9694 Aug 29 04:19	6°♎28'30	21°06'18
desc. node	9694 Sep 05 18:09	11°♎35'42	
retrograde	9694 Sep 10 00:43	12°♎21'03	
evening set	9694 Sep 12 09:20	12°♎08'00	
inferior conj	9694 Sep 21 13:38	8°♎12'02	-4°27'14
minimum elong	9694 Sep 21 03:53	8°♎25'47	4°24'38
min. Earth dist.	9694 Sep 22 01:39	7°♎55'05	0.54637 AU
morning rise	9694 Sep 29 22:50	4°♎18'24	
direct	9694 Oct 03 20:05	3°♎45'56	
morning max el	9694 Oct 16 16:29	9°♎54'32	22°44'22
asc. node	9694 Oct 29 14:46	27°♎16'13	
	9694 Oct 31 03:48	0°♏	
morning set	9694 Nov 08 02:00	15°♏42'56	
	9694 Nov 14 17:52	0°♐	
superior conj	9694 Nov 15 02:14	0°♐44'41	1°40'00
minimum elong	9694 Nov 15 02:41	0°♐47'03	1°40'18
max. Earth dist.	9694 Nov 18 09:00	7°♐39'38	1.33835 AU
evening rise	9694 Nov 23 00:31	17°♐03'01	
	9694 Nov 29 23:01	0°♑	
desc. node	9694 Dec 02 16:29	4°♑43'59	
	9694 Dec 19 18:56	0°♒	
evening max el	9694 Dec 27 16:25	8°♒45'48	27°10'50
retrograde	9695 Jan 10 02:39	16°♒07'53	
evening set	9695 Jan 16 20:23	13°♒33'19	
min. Earth dist.	9695 Jan 20 18:18	9°♒50'47	0.65117 AU
inferior conj	9695 Jan 23 00:04	7°♒21'27	-0°51'40
minimum elong	9695 Jan 23 01:36	7°♒17'10	0°50'43
asc. node	9695 Jan 25 14:06	4°♒37'12	
morning rise	9695 Jan 29 08:17	1°♒50'11	
direct	9695 Jan 31 23:56	1°♒12'50	
morning max el	9695 Feb 07 09:42	4°♒35'11	17°59'54
	9695 Feb 24 13:47	0°♓	
morning set	9695 Feb 25 06:36	1°♓09'21	
desc. node	9695 Feb 28 16:14	6°♓44'55	
superior conj	9695 Mar 11 13:46	24°♓19'01	-1°14'28
minimum elong	9695 Mar 11 05:34	23°♓46'30	1°13'25

max. Earth dist.	9695 Mar 15 02:51	29°♓54'36	1.45382 AU
	9695 Mar 15 04:13	0°♈	
evening rise	9695 Mar 27 16:44	19°♈27'00	
	9695 Apr 03 13:44	0°♉	
greatest brilliancy	9695 Apr 10 13:33	10°♉32'00	-0.7m
evening max el	9695 Apr 22 05:38	25°♉51'16	19°42'29
asc. node	9695 Apr 23 12:31	27°♉04'52	
	9695 Apr 28 18:23	0°♊	
retrograde	9695 Apr 29 14:35	0°♊03'55	
	9695 Apr 30 10:30	30°℞♉	
evening set	9695 May 03 07:44	28°♉43'29	
inferior conj	9695 May 08 16:33	22°♉46'41	3°18'26
minimum elong	9695 May 08 16:00	22°♉48'30	3°18'07
min. Earth dist.	9695 May 09 19:22	21°♉17'18	0.67269 AU
morning rise	9695 May 13 23:56	16°♉27'35	
direct	9695 May 19 23:06	13°♉48'32	
desc. node	9695 May 27 16:31	17°♉07'34	
morning max el	9695 Jun 01 01:21	21°♉03'44	25°20'57
	9695 Jun 08 18:37	0°♊	
	9695 Jun 29 02:21	0°♋	
morning set	9695 Jul 07 02:50	13°♋51'12	
max. Earth dist.	9695 Jul 10 18:09	20°♋32'22	1.36313 AU
	9695 Jul 15 16:22	0°♌	
superior conj	9695 Jul 16 22:34	2°♌29'12	-0°34'16
minimum elong	9695 Jul 17 00:41	2°♌39'45	0°34'11
asc. node	9695 Jul 20 11:35	9°♌36'44	
evening rise	9695 Jul 25 01:48	18°♌58'12	
	9695 Jul 30 16:10	0°♍	
evening max el	9695 Aug 11 12:05	17°♍33'00	19°50'00
retrograde	9695 Aug 21 15:52	22°♍34'47	
evening set	9695 Aug 23 12:47	22°♍25'18	
desc. node	9695 Aug 23 15:21	22°♍24'12	
inferior conj	9695 Sep 01 11:09	18°♍24'04	-2°41'39
minimum elong	9695 Sep 01 03:53	18°♍35'13	2°39'06
min. Earth dist.	9695 Sep 03 12:05	17°♍09'10	0.55202 AU
morning rise	9695 Sep 09 17:12	14°♍05'14	
direct	9695 Sep 14 09:36	13°♍17'05	
morning max el	9695 Sep 28 04:19	20°♍06'17	24°31'12
	9695 Oct 06 14:22	0°♎	
asc. node	9695 Oct 16 11:41	16°♎13'07	
	9695 Oct 23 07:59	0°♏	
morning set	9695 Oct 23 13:48	0°♏30'59	
superior conj	9695 Oct 30 10:25	15°♏27'47	1°39'15
minimum elong	9695 Oct 30 09:42	15°♏23'55	1°39'29
max. Earth dist.	9695 Nov 01 09:55	19°♏46'07	1.32603 AU
	9695 Nov 06 06:15	0°♐	
evening rise	9695 Nov 06 18:33	1°♐02'55	
desc. node	9695 Nov 19 13:35	24°♐38'33	
	9695 Nov 22 21:56	0°♑	
evening max el	9695 Dec 10 04:15	21°♑58'02	27°30'02
retrograde	9695 Dec 23 21:34	29°♑17'14	
evening set	9695 Dec 30 21:44	26°♑48'14	
min. Earth dist.	9696 Jan 03 15:43	23°♑36'20	0.63371 AU
inferior conj	9696 Jan 06 08:26	20°♑54'34	-2°01'04
minimum elong	9696 Jan 06 12:20	20°♑44'48	1°59'09
asc. node	9696 Jan 12 11:11	15°♑57'55	
morning rise	9696 Jan 13 04:57	15°♑38'51	
direct	9696 Jan 15 13:47	15°♑11'51	
morning max el	9696 Jan 22 03:13	18°♑34'48	17°47'34
	9696 Jan 30 11:55	0°♒	
morning set	9696 Feb 07 11:00	13°♒31'55	
desc. node	9696 Feb 15 13:07	27°♒21'53	
	9696 Feb 17 02:53	0°♓	
superior conj	9696 Feb 19 19:17	4°♓26'35	-0°31'13
minimum elong	9696 Feb 19 15:58	4°♓12'58	0°30'32
max. Earth dist.	9696 Feb 25 21:22	14°♓17'53	1.44460 AU
evening rise	9696 Mar 06 04:05	28°♓49'00	
	9696 Mar 06 22:35	0°♈	
	9696 Mar 27 09:27	0°♉	
evening max el	9696 Apr 04 06:27	9°♉33'01	20°45'53
asc. node	9696 Apr 09 09:40	13°♉34'18	
retrograde	9696 Apr 12 13:13	14°♉23'27	
evening set	9696 Apr 16 15:52	12°♉47'23	
inferior conj	9696 Apr 21 22:53	6°♉37'56	3°06'41
minimum elong	9696 Apr 21 21:25	6°♉42'58	3°06'17
min. Earth dist.	9696 Apr 22 11:49	5°♉53'20	0.68124 AU
morning rise	9696 Apr 27 02:45	0°♉21'52	
	9696 Apr 27 12:51	30°℞♈	
direct	9696 May 02 13:09	27°♈57'28	
	9696 May 08 05:00	0°♉	
morning max el	9696 May 13 10:40	4°♉27'59	23°53'18
desc. node	9696 May 13 13:26	4°♉35'00	
	9696 Jun 02 01:18	0°♊	
morning set	9696 Jun 17 20:17	25°♊12'42	
	9696 Jun 20 14:35	0°♋	
max. Earth dist.	9696 Jun 21 15:16	1°♋48'49	1.38515 AU
superior conj	9696 Jun 28 23:58	15°♋18'27	-1°07'02
minimum elong	9696 Jun 29 04:19	15°♋39'06	1°06'41
asc. node	9696 Jul 06 08:35	29°♋33'21	
	9696 Jul 06 14:00	0°♌	
evening rise	9696 Jul 08 00:46	2°♌50'29	
evening max el	9696 Jul 24 08:40	29°♌23'01	18°54'32
	9696 Jul 25 00:10	0°♍	
retrograde	9696 Aug 01 22:10	3°♍38'35	
evening set	9696 Aug 03 20:26	3°♍26'28	
desc. node	9696 Aug 09 12:31	0°♍53'18	
	9696 Aug 10 20:33	30°℞♌	
inferior conj	9696 Aug 12 01:53	29°♌08'40	-0°47'20
minimum elong	9696 Aug 11 23:53	29°♌12'13	0°46'46
min. Earth dist.	9696 Aug 15 02:34	27°♌00'35	0.56617 AU
morning rise	9696 Aug 20 00:06	24°♌13'04	
direct	9696 Aug 25 11:49	23°♌01'20	
	9696 Sep 08 08:20	0°♍	
morning max el	9696 Sep 08 17:48	0°♍22'28	26°08'09
	9696 Sep 29 10:39	0°♎	
asc. node	9696 Oct 02 08:36	5°♎36'18	
morning set	9696 Oct 07 00:44	15°♎13'52	
superior conj	9696 Oct 13 21:22	0°♏16'13	1°32'37
minimum elong	9696 Oct 13 19:46	0°♏07'20	1°32'39
	9696 Oct 13 18:26	0°♏	
max. Earth dist.	9696 Oct 14 16:56	2°♏04'36	1.31831 AU
evening rise	9696 Oct 20 20:23	15°♏22'26	
	9696 Oct 28 05:46	0°♐	
desc. node	9696 Nov 05 10:43	14°♐03'30	
	9696 Nov 17 03:26	0°♑	
evening max el	9696 Nov 21 12:05	4°♑33'29	27°17'36
retrograde	9696 Dec 05 08:46	11°♑46'30	
evening set	9696 Dec 12 09:27	9°♑32'02	
min. Earth dist.	9696 Dec 16 02:34	6°♑44'32	0.61376 AU
inferior conj	9696 Dec 19 04:00	4°♑02'22	-3°14'21
minimum elong	9696 Dec 19 10:21	3°♑48'18	3°11'44
	9696 Dec 24 11:17	30°℞♐	
morning rise	9696 Dec 26 13:40	29°♐05'39	
direct	9696 Dec 28 18:20	28°♐45'26	
asc. node	9696 Dec 29 08:17	28°♐46'53	
	9697 Jan 01 21:39	0°♑	
morning max el	9697 Jan 04 19:12	2°♑18'10	17°53'25
morning set	9697 Jan 20 11:12	26°♑50'16	
	9697 Jan 22 04:59	0°♒	

superior conj	9697 Jan 31 02:05	15°♒46'43	0°10'01
minimum elong	9697 Jan 31 02:59	15°♒50'36	0°10'09
behind sun begin	9697 Jan 30 20:28	15°♒22'26	
behind sun end	9697 Jan 31 09:30	16°♒18'43	
desc. node	9697 Feb 01 10:00	18°♒03'55	
max. Earth dist.	9697 Feb 07 12:14	28°♒16'15	1.42921 AU
	9697 Feb 08 13:39	0°♓	
evening rise	9697 Feb 13 23:03	8°♓37'21	
	9697 Feb 28 02:56	0°♈	
evening max el	9697 Mar 18 01:53	23°♈15'30	21°59'55
retrograde	9697 Mar 27 10:52	28°♈48'17	
asc. node	9697 Mar 27 06:50	28°♈48'09	
evening set	9697 Apr 01 00:03	26°♈56'53	
inferior conj	9697 Apr 06 07:27	20°♈37'08	2°44'34
minimum elong	9697 Apr 06 05:25	20°♈44'15	2°44'01
min. Earth dist.	9697 Apr 06 07:30	20°♈36'56	0.68527 AU
morning rise	9697 Apr 11 10:37	14°♈25'30	
direct	9697 Apr 16 07:16	12°♈20'55	
morning max el	9697 Apr 25 21:52	18°♈00'01	22°23'51
desc. node	9697 Apr 30 10:21	23°♈01'49	
	9697 May 05 21:01	0°♉	
	9697 May 26 03:57	0°♊	
morning set	9697 May 29 12:14	5°♊22'52	
max. Earth dist.	9697 Jun 03 13:26	13°♊45'07	1.40780 AU
superior conj	9697 Jun 11 08:19	27°♊18'21	-1°37'47
minimum elong	9697 Jun 11 14:21	27°♊45'28	1°37'25
	9697 Jun 12 20:11	0°♋	
evening rise	9697 Jun 21 13:39	16°♋11'28	
asc. node	9697 Jun 23 05:34	19°♋18'26	
	9697 Jun 29 03:26	0°♌	
evening max el	9697 Jul 07 14:42	11°♌51'55	18°20'01
retrograde	9697 Jul 14 23:37	15°♌34'15	
evening set	9697 Jul 17 04:29	15°♌15'12	
inferior conj	9697 Jul 24 14:21	10°♌37'16	0°49'54
minimum elong	9697 Jul 24 16:01	10°♌33'48	0°49'01
desc. node	9697 Jul 27 09:40	8°♌17'27	
min. Earth dist.	9697 Jul 27 23:14	7°♌50'23	0.58608 AU
morning rise	9697 Aug 01 00:08	5°♌06'17	
direct	9697 Aug 07 04:17	3°♌24'48	
morning max el	9697 Aug 21 13:35	11°♌09'30	27°19'00
	9697 Sep 05 05:18	0°♍	
asc. node	9697 Sep 19 05:31	25°♍18'23	
morning set	9697 Sep 21 09:08	29°♍46'51	
	9697 Sep 21 11:38	0°♎	
superior conj	9697 Sep 28 09:11	15°♎04'10	1°20'30
minimum elong	9697 Sep 28 07:03	14°♎52'18	1°20'17
max. Earth dist.	9697 Sep 28 02:39	14°♎27'51	1.31524 AU
evening rise	9697 Oct 05 03:31	29°♎54'53	
	9697 Oct 05 04:28	0°♏	
	9697 Oct 21 10:56	0°♐	
desc. node	9697 Oct 23 07:52	2°♐47'18	
evening max el	9697 Nov 03 13:12	16°♐21'16	26°31'09
retrograde	9697 Nov 17 11:21	23°♐27'59	
evening set	9697 Nov 24 03:23	21°♐38'11	
min. Earth dist.	9697 Nov 28 02:48	19°♐03'00	0.59268 AU
inferior conj	9697 Dec 01 07:16	16°♐35'42	-4°24'55
minimum elong	9697 Dec 01 15:00	16°♐20'45	4°22'28
morning rise	9697 Dec 09 05:10	12°♐00'51	
direct	9697 Dec 11 09:21	11°♐44'08	
asc. node	9697 Dec 16 05:20	13°♐11'43	
morning max el	9697 Dec 19 06:06	15°♐35'58	18°18'43
	9697 Dec 29 06:04	0°♑	
morning set	9698 Jan 04 01:21	10°♑47'09	
superior conj	9698 Jan 13 08:01	28°♑12'28	0°44'20
minimum elong	9698 Jan 13 10:56	28°♑25'45	0°44'14
	9698 Jan 14 07:42	0°♒	
desc. node	9698 Jan 19 06:55	8°♒47'41	
max. Earth dist.	9698 Jan 20 21:55	11°♒35'14	1.40945 AU
evening rise	9698 Jan 25 12:22	19°♒16'48	
	9698 Feb 01 05:50	0°♓	
	9698 Feb 22 12:06	0°♈	
evening max el	9698 Feb 28 17:22	7°♈00'33	23°19'38
retrograde	9698 Mar 11 06:05	13°♈14'08	
asc. node	9698 Mar 14 03:59	12°♈33'00	
evening set	9698 Mar 16 06:44	11°♈08'21	
min. Earth dist.	9698 Mar 21 04:19	5°♈22'59	0.68497 AU
inferior conj	9698 Mar 21 16:20	4°♈41'37	2°13'01
minimum elong	9698 Mar 21 14:07	4°♈49'14	2°12'22
	9698 Mar 25 09:22	30°℞♓	
morning rise	9698 Mar 26 21:27	28°♓35'37	
direct	9698 Mar 31 04:30	26°♓52'54	
	9698 Apr 06 17:56	0°♈	
morning max el	9698 Apr 08 14:14	1°♈42'40	21°00'49
desc. node	9698 Apr 17 07:14	12°♈12'00	
	9698 Apr 29 16:41	0°♉	
morning set	9698 May 09 01:55	14°♉22'30	
max. Earth dist.	9698 May 16 17:11	26°♉33'33	1.42834 AU
	9698 May 18 19:36	0°♊	
superior conj	9698 May 23 19:07	8°♊19'42	-2°01'43
minimum elong	9698 May 24 00:35	8°♊42'57	2°01'42
evening rise	9698 Jun 04 12:18	28°♊51'12	
	9698 Jun 05 03:40	0°♋	
asc. node	9698 Jun 10 02:35	8°♋47'16	
evening max el	9698 Jun 21 02:20	24°♋50'38	18°05'24
retrograde	9698 Jun 27 17:57	28°♋14'47	
evening set	9698 Jun 30 06:36	27°♋45'20	
inferior conj	9698 Jul 06 23:02	22°♋47'30	2°00'53
minimum elong	9698 Jul 07 01:55	22°♋40'35	1°59'43
min. Earth dist.	9698 Jul 10 03:47	19°♋44'11	0.60861 AU
morning rise	9698 Jul 13 18:35	16°♋51'04	
desc. node	9698 Jul 14 06:48	16°♋31'45	
direct	9698 Jul 20 09:13	14°♋40'03	
morning max el	9698 Aug 03 16:05	22°♋38'58	27°53'40
	9698 Aug 10 04:11	0°♌	
	9698 Aug 29 09:20	0°♍	
morning set	9698 Sep 05 13:05	14°♍03'44	
asc. node	9698 Sep 06 02:23	15°♍12'50	
max. Earth dist.	9698 Sep 11 11:08	26°♍44'09	1.31696 AU
superior conj	9698 Sep 12 20:00	29°♍45'12	1°03'12
minimum elong	9698 Sep 12 17:47	29°♍32'58	1°02'47
	9698 Sep 12 22:41	0°♎	
evening rise	9698 Sep 19 13:45	14°♎33'20	
	9698 Sep 27 04:56	0°♏	
desc. node	9698 Oct 10 05:02	20°♏32'57	
evening max el	9698 Oct 16 06:11	27°♏17'42	25°14'02
	9698 Oct 19 09:36	0°♐	
retrograde	9698 Oct 30 03:21	4°♐17'08	
evening set	9698 Nov 04 22:38	3°♐00'23	
min. Earth dist.	9698 Nov 09 18:10	0°♐20'06	0.57263 AU
	9698 Nov 10 06:24	30°℞♏	
inferior conj	9698 Nov 12 15:02	28°♏24'40	-5°20'24
minimum elong	9698 Nov 12 21:00	28°♏14'37	5°19'14
morning rise	9698 Nov 20 21:41	24°♏12'14	
direct	9698 Nov 23 06:37	23°♏55'42	
morning max el	9698 Dec 02 08:02	28°♏16'21	19°05'18
asc. node	9698 Dec 03 02:21	29°♏02'05	
	9698 Dec 03 23:46	0°♐	
morning set	9698 Dec 19 00:59	25°♐08'52	
	9698 Dec 21 11:40	0°♑	

superior conj	9698 Dec 27 08:07	11°♑28'42	1°10'12
minimum elong	9698 Dec 27 11:15	11°♑43'48	1°10'10
max. Earth dist.	9699 Jan 03 03:53	24°♑10'45	1.38767 AU
desc. node	9699 Jan 06 03:51	29°♑28'51	
	9699 Jan 06 11:02	0°♒	
evening rise	9699 Jan 06 23:20	0°♒53'12	
	9699 Jan 25 12:57	0°♓	
evening max el	9699 Feb 11 06:58	20°♓48'38	24°38'57
retrograde	9699 Feb 22 21:31	27°♓35'14	
evening set	9699 Feb 28 10:22	25°♓16'47	
asc. node	9699 Mar 01 01:09	24°♓43'37	
min. Earth dist.	9699 Mar 04 23:58	20°♓06'09	0.68047 AU
inferior conj	9699 Mar 05 23:38	18°♓47'21	1°32'28
minimum elong	9699 Mar 05 21:43	18°♓53'43	1°31'53
morning rise	9699 Mar 11 09:14	12°♓48'26	
direct	9699 Mar 15 03:31	11°♓27'17	
morning max el	9699 Mar 22 14:01	15°♓36'46	19°49'56
	9699 Apr 02 20:45	0°♈	
desc. node	9699 Apr 04 04:04	1°♈53'27	
greatest brilliancy	9699 Apr 04 14:13	2°♈30'28	-0.6m
morning set	9699 Apr 18 00:33	22°♈46'10	
	9699 Apr 22 16:36	0°♉	
max. Earth dist.	9699 Apr 29 04:07	10°♉11'27	1.44423 AU
superior conj	9699 May 04 05:36	18°♉18'31	-2°12'36
minimum elong	9699 May 04 06:22	18°♉21'38	2°12'52
	9699 May 11 08:18	0°♊	
evening rise	9699 May 17 15:54	10°♊39'18	
asc. node	9699 May 27 23:38	27°♊54'14	
	9699 May 29 08:10	0°♋	
evening max el	9699 Jun 04 16:00	8°♋10'22	18°09'44
retrograde	9699 Jun 11 00:55	11°♋31'13	
evening set	9699 Jun 13 21:20	10°♋48'53	
inferior conj	9699 Jun 20 00:10	5°♋32'28	2°46'39
minimum elong	9699 Jun 20 02:38	5°♋25'46	2°45'47
min. Earth dist.	9699 Jun 22 17:19	2°♋36'06	0.63072 AU
	9699 Jun 25 10:52	30°℞♊	
morning rise	9699 Jun 26 06:17	29°♊21'11	
desc. node	9699 Jul 01 03:52	26°♊59'10	
direct	9699 Jul 02 23:59	26°♊48'11	
	9699 Jul 11 08:47	0°♋	
morning max el	9699 Jul 16 23:40	4°♋51'01	27°49'57
	9699 Aug 04 21:58	0°♌	
morning set	9699 Aug 20 10:27	27°♌58'55	
	9699 Aug 21 10:21	0°♍	
asc. node	9699 Aug 23 23:15	5°♍15'08	
max. Earth dist.	9699 Aug 25 14:43	8°♍44'02	1.32365 AU
superior conj	9699 Aug 28 04:00	14°♍14'04	0°41'03
minimum elong	9699 Aug 28 02:14	14°♍04'27	0°40'34
evening rise	9699 Sep 04 01:16	29°♍12'36	
	9699 Sep 04 10:09	0°♎	
	9699 Sep 21 04:57	0°♏	
desc. node	9699 Sep 27 02:13	6°♏58'05	
evening max el	9699 Sep 27 17:33	7°♏35'56	23°37'28
retrograde	9699 Oct 11 06:29	14°♏21'32	
evening set	9699 Oct 15 17:25	13°♏38'17	
min. Earth dist.	9699 Oct 22 03:44	10°♏34'32	0.55660 AU
inferior conj	9699 Oct 24 02:32	9°♏24'59	-5°41'53
minimum elong	9699 Oct 24 02:06	9°♏25'39	5°41'40
morning rise	9699 Nov 01 12:42	5°♏31'01	
direct	9699 Nov 04 08:45	5°♏11'07	
morning max el	9699 Nov 14 21:35	10°♏09'26	20°14'35
asc. node	9699 Nov 19 23:20	16°♏02'46	
	9699 Nov 28 08:52	0°♐	
morning set	9699 Dec 03 06:55	9°♐46'25	

superior conj	9699 Dec 10 21:40	25°♐22'22	1°27'42
minimum elong	9699 Dec 11 00:02	25°♐34'15	1°27'51
	9699 Dec 13 05:20	0°♑	
max. Earth dist.	9699 Dec 16 10:49	6°♑15'43	1.36632 AU
evening rise	9699 Dec 20 06:20	13°♑21'41	
desc. node	9699 Dec 24 00:49	20°♑03'42	
	9699 Dec 29 23:21	0°♒	
	9700 Jan 20 11:41	0°♓	
evening max el	9700 Jan 24 20:21	4°♓37'38	25°50'43
retrograde	9700 Feb 06 08:08	11°♓46'03	
evening set	9700 Feb 12 09:17	9°♓17'35	
asc. node	9700 Feb 15 22:19	5°♓36'24	
min. Earth dist.	9700 Feb 16 16:08	4°♓41'46	0.67205 AU
inferior conj	9700 Feb 18 03:27	2°♓50'31	0°43'08
minimum elong	9700 Feb 18 02:23	2°♓53'52	0°42'54
	9700 Feb 20 11:51	30°℞♒	
morning rise	9700 Feb 23 20:02	27°♒00'35	
direct	9700 Feb 27 02:47	25°♒58'58	
morning max el	9700 Mar 05 21:31	29°♒40'29	18°54'12
	9700 Mar 06 05:19	0°♓	
desc. node	9700 Mar 22 00:54	21°♓57'32	
	9700 Mar 27 05:23	0°♈	
morning set	9700 Mar 28 07:24	1°♈41'11	
max. Earth dist.	9700 Apr 11 20:59	24°♈25'03	1.45376 AU
superior conj	9700 Apr 13 18:52	27°♈25'11	-2°04'37
minimum elong	9700 Apr 13 12:23	26°♈59'42	2°04'26
	9700 Apr 15 10:11	0°♉	
evening rise	9700 Apr 28 20:24	21°♉28'06	
	9700 May 04 02:39	0°♊	
asc. node	9700 May 14 20:43	16°♊31'08	
evening max el	9700 May 19 04:35	21°♊42'15	18°32'18
retrograde	9700 May 25 16:22	25°♊13'42	
evening set	9700 May 28 20:29	24°♊17'02	
inferior conj	9700 Jun 03 13:38	18°♊43'31	3°11'35
minimum elong	9700 Jun 03 14:59	18°♊39'28	3°11'04
min. Earth dist.	9700 Jun 05 15:58	16°♊12'41	0.65018 AU
morning rise	9700 Jun 09 08:37	12°♊25'20	
direct	9700 Jun 15 22:39	9°♊41'29	
desc. node	9700 Jun 18 00:54	9°♊56'09	
morning max el	9700 Jun 29 09:55	17°♊36'54	27°11'49
	9700 Jul 09 18:13	0°♋	
	9700 Jul 28 19:38	0°♌	
morning set	9700 Aug 03 22:29	11°♌24'33	
max. Earth dist.	9700 Aug 08 09:54	20°♌19'36	1.33535 AU
asc. node	9700 Aug 10 20:08	25°♌20'37	
superior conj	9700 Aug 12 07:04	28°♌24'11	0°14'29
minimum elong	9700 Aug 12 06:20	28°♌20'20	0°14'06
behind sun begin	9700 Aug 12 03:39	28°♌06'12	
behind sun end	9700 Aug 12 09:01	28°♌34'29	
	9700 Aug 13 01:09	0°♍	
evening rise	9700 Aug 19 12:08	13°♍46'36	
	9700 Aug 27 16:27	0°♎	
evening max el	9700 Sep 09 06:48	17°♎46'29	21°58'15
desc. node	9700 Sep 13 23:24	21°♎33'46	
retrograde	9700 Sep 21 22:02	24°♎03'36	
evening set	9700 Sep 24 22:03	23°♎43'29	
inferior conj	9700 Oct 03 22:33	19°♎44'14	-5°10'39
minimum elong	9700 Oct 03 14:37	19°♎55'20	5°09'08
min. Earth dist.	9700 Oct 03 11:07	20°♎00'13	0.54754 AU
morning rise	9700 Oct 12 08:35	15°♎56'42	
direct	9700 Oct 15 20:07	15°♎30'02	
morning max el	9700 Oct 27 21:44	21°♎11'54	21°45'19
	9700 Nov 04 06:09	0°♏	
asc. node	9700 Nov 06 20:16	3°♏58'19	
morning set	9700 Nov 17 16:40	24°♏32'34	

	9700 Nov 20 06:43	0°♐	
superior conj	9700 Nov 24 20:48	9°♐42'19	1°37'31
minimum elong	9700 Nov 24 21:58	9°♐48'26	1°37'48
max. Earth dist.	9700 Nov 28 23:18	18°♐09'18	1.34744 AU
evening rise	9700 Dec 03 05:48	26°♐32'56	
	9700 Dec 05 01:38	0°♑	
desc. node	9700 Dec 10 21:50	10°♑27'46	
	9700 Dec 23 08:27	0°♒	
evening max el	9701 Jan 07 09:48	18°♒20'40	26°47'39
retrograde	9701 Jan 20 13:12	25°♒40'17	
evening set	9701 Jan 27 01:44	23°♒06'03	
min. Earth dist.	9701 Jan 31 02:36	19°♒04'44	0.65981 AU
inferior conj	9701 Feb 02 01:44	16°♒47'03	-0°14'42
minimum elong	9701 Feb 02 02:08	16°♒45'52	0°14'16
transit middle	9701 Feb 02 02:08	16°♒45'52	0°14'16
transit begin	9701 Feb 02 00:47	16°♒49'48	
transit end	9701 Feb 02 03:29	16°♒41'55	
asc. node	9701 Feb 02 19:28	15°♒55'30	
morning rise	9701 Feb 08 03:38	11°♒08'25	
direct	9701 Feb 11 00:21	10°♒23'15	
morning max el	9701 Feb 17 11:08	13°♒49'07	18°14'56
	9701 Mar 01 05:20	0°♓	
morning set	9701 Mar 08 16:29	11°♓57'15	
desc. node	9701 Mar 08 21:44	12°♓18'21	
	9701 Mar 20 00:12	0°♈	
superior conj	9701 Mar 24 00:36	6°♈18'54	-1°36'54
minimum elong	9701 Mar 23 15:02	5°♈41'25	1°35'59
max. Earth dist.	9701 Mar 25 16:47	8°♈56'19	1.45596 AU
	9701 Apr 08 04:38	0°♉	
evening rise	9701 Apr 09 01:54	1°♉23'00	
greatest brilliancy	9701 Apr 20 09:28	18°♉55'53	-0.7m
	9701 Apr 28 01:22	0°♊	
asc. node	9701 May 01 17:51	4°♊28'35	
evening max el	9701 May 02 13:39	5°♊20'26	19°12'11
retrograde	9701 May 09 12:46	9°♊15'08	
evening set	9701 May 13 00:56	8°♊03'25	
inferior conj	9701 May 18 11:55	2°♊14'25	3°19'52
minimum elong	9701 May 18 12:01	2°♊14'04	3°19'33
min. Earth dist.	9701 May 19 23:04	0°♊20'51	0.66575 AU
	9701 May 20 05:38	30°℞♉	
morning rise	9701 May 23 22:40	25°♉54'32	
direct	9701 May 30 04:05	23°♉11'04	
desc. node	9701 Jun 04 21:54	25°♉01'35	
	9701 Jun 11 02:17	0°♊	
morning max el	9701 Jun 11 20:33	0°♊45'31	26°06'47
	9701 Jul 03 18:01	0°♋	
morning set	9701 Jul 17 21:42	24°♋11'56	
	9701 Jul 20 23:30	0°♌	
max. Earth dist.	9701 Jul 21 18:40	1°♌32'22	1.35182 AU
superior conj	9701 Jul 27 02:43	12°♌09'13	-0°15'45
minimum elong	9701 Jul 27 03:39	12°♌13'58	0°15'51
behind sun begin	9701 Jul 27 02:35	12°♌08'33	
behind sun end	9701 Jul 27 04:42	12°♌19'22	
asc. node	9701 Jul 28 17:04	15°♌25'41	
evening rise	9701 Aug 03 20:21	28°♌09'50	
	9701 Aug 04 17:46	0°♍	
evening max el	9701 Aug 22 06:33	28°♍24'56	20°31'15
	9701 Aug 24 00:03	0°♎	
desc. node	9701 Aug 31 20:36	3°♎50'29	
retrograde	9701 Sep 02 10:15	3°♎56'50	
evening set	9701 Sep 04 11:44	3°♎46'17	
	9701 Sep 13 07:54	30°℞♍	
inferior conj	9701 Sep 13 15:17	29°♍49'18	-3°45'38
minimum elong	9701 Sep 13 05:51	0°♎02'57	3°42'42
min. Earth dist.	9701 Sep 14 19:55	29°♍07'49	0.54761 AU
morning rise	9701 Sep 21 23:35	25°♍47'15	
direct	9701 Sep 26 04:33	25°♍09'16	
	9701 Oct 07 16:44	0°♎	
morning max el	9701 Oct 09 12:14	1°♎35'41	23°30'07
asc. node	9701 Oct 24 17:12	22°♎35'52	
	9701 Oct 28 15:09	0°♏	
morning set	9701 Nov 02 04:12	9°♏21'16	
superior conj	9701 Nov 09 02:24	24°♏19'11	1°40'26
minimum elong	9701 Nov 09 02:20	24°♏18'49	1°40'44
	9701 Nov 11 18:07	0°♐	
max. Earth dist.	9701 Nov 11 19:34	0°♐07'43	1.33247 AU
evening rise	9701 Nov 16 17:59	10°♐17'13	
	9701 Nov 27 10:37	0°♑	
desc. node	9701 Nov 27 18:55	0°♑34'57	
	9701 Dec 19 03:31	0°♒	
evening max el	9701 Dec 20 22:29	1°♒46'43	27°22'33
retrograde	9702 Jan 03 12:12	9°♒08'42	
evening set	9702 Jan 10 09:23	6°♒35'06	
min. Earth dist.	9702 Jan 14 05:14	3°♒06'30	0.64406 AU
inferior conj	9702 Jan 16 15:58	0°♒30'17	-1°20'24
minimum elong	9702 Jan 16 18:27	0°♒23'40	1°19'02
	9702 Jan 17 03:22	30°℞♑	
asc. node	9702 Jan 20 16:35	26°♑38'25	
morning rise	9702 Jan 23 05:16	25°♑05'37	
direct	9702 Jan 25 17:44	24°♑33'11	
morning max el	9702 Feb 01 04:09	27°♑54'29	17°52'36
	9702 Feb 03 02:10	0°♒	
morning set	9702 Feb 18 06:27	23°♒37'51	
	9702 Feb 22 01:37	0°♓	
desc. node	9702 Feb 23 18:35	2°♓50'22	
superior conj	9702 Mar 03 17:33	15°♓49'42	-0°56'24
minimum elong	9702 Mar 03 11:17	15°♓24'28	0°55'25
max. Earth dist.	9702 Mar 08 12:13	23°♓25'58	1.45070 AU
	9702 Mar 12 16:43	0°♈	
evening rise	9702 Mar 19 15:47	10°♈45'48	
	9702 Apr 01 09:15	0°♉	
greatest brilliancy	9702 Apr 03 14:59	3°♉17'00	-0.6m
evening max el	9702 Apr 15 17:36	19°♉00'49	20°07'48
asc. node	9702 Apr 18 15:00	21°♉34'05	
retrograde	9702 Apr 23 11:18	23°♉29'08	
evening set	9702 Apr 27 08:18	22°♉02'06	
inferior conj	9702 May 02 16:02	15°♉59'26	3°14'47
minimum elong	9702 May 02 15:04	16°♉02'44	3°14'28
min. Earth dist.	9702 May 03 12:48	14°♉48'57	0.67688 AU
morning rise	9702 May 07 21:34	9°♉41'09	
direct	9702 May 13 15:22	7°♉07'37	
desc. node	9702 May 22 18:52	11°♉44'42	
morning max el	9702 May 25 06:14	14°♉05'51	24°44'24
	9702 Jun 07 04:41	0°♊	
	9702 Jun 26 14:21	0°♋	
morning set	9702 Jun 30 03:36	6°♋09'06	
max. Earth dist.	9702 Jul 03 18:10	12°♋37'43	1.37222 AU
superior conj	9702 Jul 10 11:52	25°♋21'26	-0°48'12
minimum elong	9702 Jul 10 14:56	25°♋36'24	0°47'59
	9702 Jul 12 20:34	0°♌	
asc. node	9702 Jul 15 14:02	5°♌26'30	
evening rise	9702 Jul 18 23:32	12°♌15'34	
	9702 Jul 28 11:19	0°♍	
evening max el	9702 Aug 04 20:06	9°♍49'18	19°23'49
retrograde	9702 Aug 14 07:01	14°♍30'29	
evening set	9702 Aug 16 03:11	14°♍20'36	
desc. node	9702 Aug 18 17:47	13°♍35'24	
inferior conj	9702 Aug 24 19:12	10°♍13'25	-1°52'19

minimum elong	9702 Aug 24 14:10	10°♍21'36	1°50'32
min. Earth dist.	9702 Aug 27 08:14	8°♍34'31	0.55706 AU
morning rise	9702 Sep 01 22:30	5°♍39'06	
direct	9702 Sep 06 23:02	4°♍41'53	
morning max el	9702 Sep 21 00:12	11°♍46'44	25°14'45
	9702 Oct 04 23:50	0°♎	
asc. node	9702 Oct 11 14:07	11°♎45'04	
morning set	9702 Oct 17 15:51	24°♎07'55	
	9702 Oct 20 08:53	0°♏	
superior conj	9702 Oct 24 12:02	9°♏05'48	1°37'09
minimum elong	9702 Oct 24 10:55	8°♏59'36	1°37'17
max. Earth dist.	9702 Oct 25 23:16	12°♏19'10	1.32209 AU
evening rise	9702 Oct 31 15:42	24°♏26'36	
	9702 Nov 03 09:36	0°♐	
desc. node	9702 Nov 14 16:02	20°♐18'08	
	9702 Nov 21 01:09	0°♑	
evening max el	9702 Dec 03 08:48	14°♑44'22	27°28'53
retrograde	9702 Dec 17 04:15	22°♑02'05	
evening set	9702 Dec 24 05:25	19°♑37'53	
min. Earth dist.	9702 Dec 27 22:22	16°♑37'26	0.62540 AU
inferior conj	9702 Dec 30 19:17	13°♑53'31	-2°32'00
minimum elong	9702 Dec 31 00:15	13°♑41'39	2°29'43
morning rise	9703 Jan 06 21:24	8°♑45'37	
asc. node	9703 Jan 07 13:40	8°♑33'46	
direct	9703 Jan 09 03:56	8°♑22'05	
morning max el	9703 Jan 15 21:27	11°♑48'23	17°47'47
	9703 Jan 28 04:17	0°♒	
morning set	9703 Jan 31 20:01	6°♒26'02	
desc. node	9703 Feb 10 15:28	23°♒29'43	
superior conj	9703 Feb 12 09:43	26°♒27'53	-0°13'08
minimum elong	9703 Feb 12 08:26	26°♒22'30	0°12'42
behind sun begin	9703 Feb 12 02:53	25°♒59'11	
behind sun end	9703 Feb 12 13:59	26°♒45'47	
	9703 Feb 14 12:37	0°♓	
max. Earth dist.	9703 Feb 19 04:48	7°♓37'58	1.43869 AU
evening rise	9703 Feb 27 04:34	20°♓14'22	
	9703 Mar 05 14:05	0°♈	
	9703 Mar 27 04:06	0°♉	
evening max el	9703 Mar 29 16:00	2°♉42'34	21°16'21
asc. node	9703 Apr 05 12:10	7°♉33'09	
retrograde	9703 Apr 07 09:44	7°♉51'06	
evening set	9703 Apr 11 16:39	6°♉08'41	
inferior conj	9703 Apr 16 23:35	29°♈54'33	2°58'29
minimum elong	9703 Apr 16 21:50	0°♉00'38	2°58'02
	9703 Apr 16 22:01	30°℞♈	
min. Earth dist.	9703 Apr 17 07:00	29°♈28'46	0.68351 AU
morning rise	9703 Apr 22 02:49	23°♈39'58	
direct	9703 Apr 27 07:25	21°♈23'19	
morning max el	9703 May 07 15:51	27°♈32'46	23°14'47
desc. node	9703 May 09 15:48	29°♈39'30	
	9703 May 09 23:11	0°♉	
	9703 May 31 20:04	0°♊	
morning set	9703 Jun 11 10:44	17°♊01'29	
max. Earth dist.	9703 Jun 15 14:20	24°♊05'41	1.39486 AU
	9703 Jun 18 22:55	0°♋	
superior conj	9703 Jun 23 06:36	7°♋50'59	-1°20'34
minimum elong	9703 Jun 23 11:49	8°♋15'09	1°20'11
asc. node	9703 Jul 02 11:01	25°♋18'29	
evening rise	9703 Jul 02 18:40	25°♋55'22	
	9703 Jul 04 21:42	0°♌	
evening max el	9703 Jul 18 21:17	21°♌57'20	18°37'24
retrograde	9703 Jul 26 21:07	25°♌56'30	
evening set	9703 Jul 28 21:56	25°♌41'54	
inferior conj	9703 Aug 05 19:03	21°♌16'04	-0°03'07
minimum elong	9703 Aug 05 18:55	21°♌16'19	0°03'19
transit middle	9703 Aug 05 18:55	21°♌16'19	0°03'19
transit begin	9703 Aug 05 15:21	21°♌23'03	
transit end	9703 Aug 05 22:28	21°♌09'34	
desc. node	9703 Aug 05 14:57	21°♌23'49	
min. Earth dist.	9703 Aug 09 01:14	18°♌48'55	0.57413 AU
morning rise	9703 Aug 13 12:24	16°♌04'41	
direct	9703 Aug 19 07:57	14°♌40'21	
morning max el	9703 Sep 02 15:51	22°♌12'52	26°42'11
	9703 Sep 09 13:06	0°♍	
	9703 Sep 27 19:40	0°♎	
asc. node	9703 Sep 28 11:01	1°♎16'46	
morning set	9703 Oct 02 01:53	8°♎46'42	
superior conj	9703 Oct 08 23:34	23°♎54'33	1°28'08
minimum elong	9703 Oct 08 21:42	23°♎44'08	1°28'03
max. Earth dist.	9703 Oct 09 07:44	24°♎39'52	1.31642 AU
	9703 Oct 11 17:34	0°♏	
evening rise	9703 Oct 15 20:03	8°♏52'20	
	9703 Oct 26 18:20	0°♐	
desc. node	9703 Nov 01 13:09	9°♐26'48	
evening max el	9703 Nov 15 14:12	27°♐00'41	27°02'03
	9703 Nov 19 02:30	0°♑	
retrograde	9703 Nov 29 12:02	4°♑10'50	
evening set	9703 Dec 06 10:05	2°♑06'03	
	9703 Dec 09 11:13	30°℞♐	
min. Earth dist.	9703 Dec 10 04:50	29°♐25'12	0.60479 AU
inferior conj	9703 Dec 13 08:19	26°♐47'31	-3°45'14
minimum elong	9703 Dec 13 15:29	26°♐32'30	3°42'33
morning rise	9703 Dec 20 23:25	21°♐59'31	
direct	9703 Dec 23 03:17	21°♐41'12	
asc. node	9703 Dec 25 10:44	22°♐03'02	
morning max el	9703 Dec 30 11:38	25°♐21'19	18°01'39
	9704 Jan 03 09:01	0°♑	
morning set	9704 Jan 15 02:45	20°♑02'14	
	9704 Jan 20 12:21	0°♒	
superior conj	9704 Jan 25 02:47	8°♒16'29	0°25'35
minimum elong	9704 Jan 25 04:48	8°♒25'24	0°25'33
desc. node	9704 Jan 28 12:22	14°♒12'31	
max. Earth dist.	9704 Feb 01 17:18	21°♒19'45	1.42122 AU
evening rise	9704 Feb 07 06:27	0°♓22'27	
	9704 Feb 07 00:50	0°♓	
	9704 Feb 27 02:46	0°♈	
evening max el	9704 Mar 11 09:40	16°♈26'31	22°33'35
retrograde	9704 Mar 21 06:24	22°♈16'47	
asc. node	9704 Mar 22 09:19	22°♈10'35	
evening set	9704 Mar 26 00:22	20°♈19'17	
inferior conj	9704 Mar 31 08:31	13°♈56'23	2°32'19
minimum elong	9704 Mar 31 06:21	14°♈03'55	2°31'43
min. Earth dist.	9704 Mar 31 03:26	14°♈14'02	0.68567 AU
morning rise	9704 Apr 05 12:11	7°♈47'01	
direct	9704 Apr 10 03:07	5°♈51'22	
morning max el	9704 Apr 19 04:41	11°♈08'22	21°47'21
desc. node	9704 Apr 25 12:42	18°♈26'26	
	9704 May 04 00:44	0°♉	
morning set	9704 May 21 15:09	26°♉40'21	
	9704 May 23 16:49	0°♊	
max. Earth dist.	9704 May 27 14:43	6°♊24'52	1.41700 AU
superior conj	9704 Jun 04 06:26	19°♊28'01	-1°49'06
minimum elong	9704 Jun 04 12:38	19°♊55'11	1°48'51
	9704 Jun 10 04:04	0°♋	
evening rise	9704 Jun 15 02:06	9°♋00'31	
asc. node	9704 Jun 18 08:01	14°♋57'32	
	9704 Jun 27 08:55	0°♌	
evening max el	9704 Jul 01 06:14	4°♌40'41	18°11'22

retrograde	9704 Jul	08	06:12	8°♌13'06	
evening set	9704 Jul	10	14:29	7°♌49'50	
inferior conj	9704 Jul	17	16:31	3°♌03'07	1°23'17
minimum elong	9704 Jul	17	18:57	2°♌57'42	1°22'09
min. Earth dist.	9704 Jul	21	00:49	0°♌06'34	0.59563 AU
	9704 Jul	21	03:58	30°℞♋	
desc. node	9704 Jul	22	12:05	28°♋55'51	
morning rise	9704 Jul	24	20:21	27°♋20'19	
direct	9704 Jul	31	05:58	25°♋25'52	
	9704 Aug	10	22:09	0°♌	
morning max el	9704 Aug	14	14:25	3°♌16'42	27°38'24
	9704 Sep	03	03:50	0°♍	
asc. node	9704 Sep	14	07:54	21°♍04'35	
morning set	9704 Sep	15	08:36	23°♍13'08	
	9704 Sep	18	12:45	0°♎	
max. Earth dist.	9704 Sep	21	17:30	7°♎01'50	1.31547 AU
superior conj	9704 Sep	22	11:10	8°♎39'55	1°13'46
minimum elong	9704 Sep	22	08:56	8°♎27'32	1°13'28
evening rise	9704 Sep	29	04:46	23°♎28'02	
	9704 Oct	02	07:33	0°♏	
desc. node	9704 Oct	18	10:17	27°♏47'43	
	9704 Oct	20	01:33	0°♐	
evening max el	9704 Oct	27	12:04	8°♐26'28	26°01'34
retrograde	9704 Nov	10	09:53	15°♐29'19	
evening set	9704 Nov	16	18:47	13°♐53'02	
min. Earth dist.	9704 Nov	21	00:51	11°♐18'01	0.58391 AU
inferior conj	9704 Nov	24	03:33	9°♐02'38	-4°51'17
minimum elong	9704 Nov	24	11:04	8°♐48'58	4°49'17
morning rise	9704 Dec	02	05:44	4°♐37'09	
direct	9704 Dec	04	11:23	4°♐20'47	
asc. node	9704 Dec	11	07:47	7°♐05'22	
morning max el	9704 Dec	12	19:04	8°♐23'34	18°35'50
	9704 Dec	26	17:16	0°♑	
morning set	9704 Dec	28	21:22	4°♑10'46	
superior conj	9705 Jan	06	16:59	21°♑04'50	0°56'23
minimum elong	9705 Jan	06	20:10	21°♑19'40	0°56'17
	9705 Jan	11	14:12	0°♒	
max. Earth dist.	9705 Jan	14	01:33	4°♒21'37	1.40029 AU
desc. node	9705 Jan	14	09:16	4°♒55'08	
evening rise	9705 Jan	18	04:52	11°♒25'34	
	9705 Jan	29	21:50	0°♓	
	9705 Feb	21	19:02	0°♈	
evening max el	9705 Feb	22	00:09	0°♈12'48	23°53'55
retrograde	9705 Mar	04	23:59	6°♈41'03	
asc. node	9705 Mar	09	06:29	5°♈14'41	
evening set	9705 Mar	10	05:54	4°♈29'28	
	9705 Mar	14	05:45	30°℞♓	
min. Earth dist.	9705 Mar	14	23:52	28°♓59'10	0.68354 AU
inferior conj	9705 Mar	15	16:54	28°♓01'15	1°56'54
minimum elong	9705 Mar	15	14:45	28°♓08'33	1°56'16
morning rise	9705 Mar	20	23:38	21°♓58'20	
direct	9705 Mar	25	01:11	20°♓24'54	
morning max el	9705 Apr	02	00:03	24°♓55'41	20°29'04
	9705 Apr	06	11:55	0°♈	
desc. node	9705 Apr	12	09:33	7°♈50'45	
	9705 Apr	27	09:33	0°♉	
morning set	9705 Apr	30	20:10	5°♉17'54	
max. Earth dist.	9705 May	09	22:14	19°♉38'04	1.43580 AU
superior conj	9705 May	16	06:58	0°♊02'27	-2°08'19
minimum elong	9705 May	16	11:00	0°♊19'14	2°08'28
	9705 May	16	06:23	0°♊	
evening rise	9705 May	28	17:14	21°♊19'40	
	9705 Jun	02	16:30	0°♋	
asc. node	9705 Jun	05	05:02	4°♋17'50	
evening max el	9705 Jun	14	19:06	17°♋49'08	18°04'53
retrograde	9705 Jun	21	06:38	21°♋10'17	
evening set	9705 Jun	23	22:36	20°♋35'33	
inferior conj	9705 Jun	30	08:45	15°♋29'16	2°23'08
minimum elong	9705 Jun	30	11:34	15°♋22'03	2°22'03
min. Earth dist.	9705 Jul	03	09:00	12°♋26'32	0.61824 AU
morning rise	9705 Jul	06	22:22	9°♋25'14	
desc. node	9705 Jul	09	09:11	8°♋00'26	
direct	9705 Jul	13	15:01	7°♋04'04	
morning max el	9705 Jul	27	19:35	15°♋05'30	27°56'42
	9705 Aug	08	22:25	0°♌	
	9705 Aug	26	17:33	0°♍	
morning set	9705 Aug	30	10:05	7°♍21'46	
asc. node	9705 Sep	01	04:47	11°♍02'56	
max. Earth dist.	9705 Sep	05	00:36	19°♍13'31	1.31925 AU
superior conj	9705 Sep	06	21:02	23°♍16'24	0°54'22
minimum elong	9705 Sep	06	18:56	23°♍04'53	0°53'55
	9705 Sep	09	22:20	0°♎	
evening rise	9705 Sep	13	15:48	8°♎07'39	
	9705 Sep	24	21:13	0°♏	
desc. node	9705 Oct	05	07:27	15°♏02'24	
evening max el	9705 Oct	09	01:56	19°♏03'36	24°34'16
retrograde	9705 Oct	22	20:29	25°♏58'36	
evening set	9705 Oct	28	03:29	24°♏56'20	
min. Earth dist.	9705 Nov	02	13:00	22°♏08'29	0.56515 AU
inferior conj	9705 Nov	05	02:35	20°♏31'01	-5°34'56
minimum elong	9705 Nov	05	06:22	20°♏25'01	5°34'21
morning rise	9705 Nov	13	11:25	16°♏27'45	
direct	9705 Nov	16	00:28	16°♏10'11	
morning max el	9705 Nov	25	16:08	20°♏45'18	19°32'04
asc. node	9705 Nov	28	04:47	23°♏27'57	
	9705 Dec	02	21:31	0°♐	
morning set	9705 Dec	13	00:04	18°♐40'43	
	9705 Dec	18	15:02	0°♑	
superior conj	9705 Dec	20	23:25	4°♑39'17	1°18'36
minimum elong	9705 Dec	21	02:19	4°♑53'28	1°18'39
max. Earth dist.	9705 Dec	27	07:29	16°♑43'05	1.37835 AU
evening rise	9705 Dec	31	00:45	23°♑25'18	
desc. node	9706 Jan	01	06:12	25°♑34'17	
	9706 Jan	03	20:12	0°♒	
	9706 Jan	23	16:26	0°♓	
evening max el	9706 Feb	04	13:21	14°♓01'17	25°10'46
retrograde	9706 Feb	16	13:31	20°♓58'55	
evening set	9706 Feb	22	07:45	18°♓35'28	
asc. node	9706 Feb	24	03:38	16°♓48'53	
min. Earth dist.	9706 Feb	26	18:14	13°♓39'53	0.67736 AU
inferior conj	9706 Feb	27	22:57	12°♓06'17	1°12'37
minimum elong	9706 Feb	27	21:20	12°♓11'34	1°12'08
morning rise	9706 Mar	05	11:15	6°♓11'11	
direct	9706 Mar	09	00:24	4°♓58'51	
morning max el	9706 Mar	16	03:20	8°♓54'53	19°24'20
greatest brilliancy	9706 Mar	28	21:46	25°♓41'06	-0.7m
desc. node	9706 Mar	30	06:23	27°♓42'35	
	9706 Mar	31	18:58	0°♈	
morning set	9706 Apr	09	19:14	13°♈46'12	
	9706 Apr	20	05:50	0°♉	
max. Earth dist.	9706 Apr	22	11:50	3°♉32'28	1.44910 AU
superior conj	9706 Apr	26	07:22	9°♉35'25	-2°11'44
minimum elong	9706 Apr	26	05:02	9°♉26'08	2°11'55
	9706 May	08	20:11	0°♊	
evening rise	9706 May	10	11:21	2°♊42'49	
asc. node	9706 May	23	02:05	23°♊12'53	
	9706 May	28	04:32	0°♋	
evening max el	9706 May	29	08:34	1°♋14'15	18°17'08

retrograde	9706 Jun 04 17:48	4°♋38'24	
evening set	9706 Jun 07 17:21	3°♋50'15	
	9706 Jun 12 06:04	30℞♊	
inferior conj	9706 Jun 13 15:37	28°♊26'17	2°59'30
minimum elong	9706 Jun 13 17:39	28°♊20'30	2°58'47
min. Earth dist.	9706 Jun 16 02:38	25°♊38'44	0.63936 AU
morning rise	9706 Jun 19 16:38	22°♊10'56	
direct	9706 Jun 26 09:20	19°♊31'51	
desc. node	9706 Jun 26 06:15	19°♊31'54	
morning max el	9706 Jul 10 04:50	27°♊33'55	27°37'35
	9706 Jul 12 12:10	0°♋	
	9706 Aug 02 15:52	0°♌	
morning set	9706 Aug 14 03:53	21°♌05'44	
	9706 Aug 18 12:50	0°♍	
max. Earth dist.	9706 Aug 19 01:02	1°♍03'50	1.32798 AU
asc. node	9706 Aug 19 01:39	1°♍07'04	
superior conj	9706 Aug 22 03:13	7°♍38'02	0°30'16
minimum elong	9706 Aug 22 01:49	7°♍30'29	0°29'50
evening rise	9706 Aug 29 03:17	22°♍45'18	
	9706 Sep 01 14:36	0°♎	
evening max el	9706 Sep 20 12:48	29°♎13'43	22°54'34
	9706 Sep 21 08:23	0°♏	
desc. node	9706 Sep 22 04:38	0°♏45'05	
retrograde	9706 Oct 03 18:51	5°♏50'18	
evening set	9706 Oct 07 14:07	5°♏18'41	
min. Earth dist.	9706 Oct 14 21:24	1°♏59'44	0.55167 AU
inferior conj	9706 Oct 16 06:31	1°♏12'08	-5°35'49
minimum elong	9706 Oct 16 02:35	1°♏17'48	5°35'19
	9706 Oct 18 09:35	30℞♎	
morning rise	9706 Oct 24 16:55	27°♎23'05	
direct	9706 Oct 27 18:53	27°♎00'56	
	9706 Nov 05 05:25	0°♏	
morning max el	9706 Nov 08 00:04	2°♏17'34	20°50'50
asc. node	9706 Nov 15 01:46	10°♏53'57	
	9706 Nov 25 16:24	0°♐	
morning set	9706 Nov 27 07:55	3°♐22'45	
superior conj	9706 Dec 04 17:32	18°♐45'50	1°32'44
minimum elong	9706 Dec 04 19:25	18°♐55'28	1°32'58
max. Earth dist.	9706 Dec 09 15:54	28°♐39'03	1.35785 AU
	9706 Dec 10 08:33	0°♑	
evening rise	9706 Dec 13 15:16	6°♑13'29	
desc. node	9706 Dec 19 03:12	16°♑05'10	
	9706 Dec 27 15:14	0°♒	
evening max el	9707 Jan 18 02:38	27°♒48'12	26°17'08
	9707 Jan 20 12:17	0°♓	
retrograde	9707 Jan 30 22:05	5°♓03'30	
evening set	9707 Feb 06 04:11	2°♓31'51	
	9707 Feb 08 18:40	30℞♒	
min. Earth dist.	9707 Feb 10 08:19	28°♒10'43	0.66726 AU
asc. node	9707 Feb 11 00:48	27°♒20'35	
inferior conj	9707 Feb 12 00:42	26°♒07'09	0°19'37
minimum elong	9707 Feb 12 00:11	26°♒08'44	0°19'38
morning rise	9707 Feb 17 20:59	20°♒21'42	
direct	9707 Feb 20 23:09	19°♒27'40	
morning max el	9707 Feb 27 13:44	23°♒01'29	18°35'24
	9707 Mar 05 07:44	0°♓	
desc. node	9707 Mar 17 03:14	17°♓54'18	
morning set	9707 Mar 20 11:53	23°♓11'46	
	9707 Mar 24 19:38	0°♈	
max. Earth dist.	9707 Apr 05 05:41	17°♈53'18	1.45555 AU
superior conj	9707 Apr 05 15:14	18°♈30'39	-1°55'02
minimum elong	9707 Apr 05 06:34	17°♈56'47	1°54'30
	9707 Apr 12 22:59	0°♉	
evening rise	9707 Apr 21 05:38	13°♉06'37	
greatest brilliancy	9707 Apr 29 14:02	26°♉23'09	-0.8m
	9707 May 01 21:33	0°♊	
asc. node	9707 May 09 23:11	11°♊34'31	
evening max el	9707 May 12 19:55	14°♊49'35	18°47'19
retrograde	9707 May 19 11:40	18°♊29'35	
evening set	9707 May 22 19:05	17°♊26'45	
inferior conj	9707 May 28 09:14	11°♊46'44	3°16'53
minimum elong	9707 May 28 10:03	11°♊44'12	3°16'29
min. Earth dist.	9707 May 30 05:12	9°♊30'18	0.65726 AU
morning rise	9707 Jun 03 00:19	5°♊27'13	
direct	9707 Jun 09 11:16	2°♊41'51	
desc. node	9707 Jun 13 03:17	3°♊27'06	
morning max el	9707 Jun 22 15:25	10°♊30'55	26°46'56
	9707 Jul 08 01:03	0°♋	
	9707 Jul 26 04:15	0°♌	
morning set	9707 Jul 28 11:02	4°♌17'10	
max. Earth dist.	9707 Aug 01 15:40	12°♌28'10	1.34172 AU
asc. node	9707 Aug 05 22:33	21°♌13'15	
superior conj	9707 Aug 06 03:33	21°♌39'12	0°02'05
minimum elong	9707 Aug 06 03:26	21°♌38'40	0°01'48
behind sun begin	9707 Aug 05 21:43	21°♌08'54	
behind sun end	9707 Aug 06 09:10	22°♌08'29	
	9707 Aug 10 02:44	0°♍	
evening rise	9707 Aug 13 13:20	7°♍15'54	
	9707 Aug 25 17:02	0°♎	
evening max el	9707 Sep 02 05:57	9°♎34'02	21°19'17
desc. node	9707 Sep 09 01:50	14°♎25'50	
retrograde	9707 Sep 14 07:36	15°♎33'08	
evening set	9707 Sep 16 19:40	15°♎18'41	
inferior conj	9707 Sep 25 23:29	11°♎22'24	-4°40'14
minimum elong	9707 Sep 25 13:57	11°♎35'46	4°37'53
min. Earth dist.	9707 Sep 26 05:28	11°♎13'59	0.54641 AU
morning rise	9707 Oct 04 08:55	7°♎30'57	
direct	9707 Oct 08 03:40	7°♎00'03	
morning max el	9707 Oct 20 19:26	13°♎01'50	22°28'40
asc. node	9707 Nov 01 22:43	29°♎09'10	
	9707 Nov 02 10:35	0°♏	
morning set	9707 Nov 11 18:40	18°♏10'43	
	9707 Nov 17 07:23	0°♐	
superior conj	9707 Nov 18 19:47	3°♐14'10	1°39'32
minimum elong	9707 Nov 18 20:25	3°♐17'32	1°39'51
max. Earth dist.	9707 Nov 22 07:31	10°♐32'48	1.34061 AU
evening rise	9707 Nov 26 20:40	19°♐40'29	
	9707 Dec 02 08:51	0°♑	
desc. node	9707 Dec 06 00:14	6°♑22'50	
	9707 Dec 21 16:23	0°♒	
evening max el	9707 Dec 31 16:05	11°♒25'56	27°05'35
retrograde	9708 Jan 14 00:44	18°♒47'26	
evening set	9708 Jan 20 17:11	16°♒12'53	
min. Earth dist.	9708 Jan 24 15:53	12°♒25'27	0.65353 AU
inferior conj	9708 Jan 26 19:54	9°♒58'58	-0°41'42
minimum elong	9708 Jan 26 21:07	9°♒55'32	0°40'53
asc. node	9708 Jan 28 21:58	7°♒42'33	
morning rise	9708 Feb 02 02:24	4°♒25'37	
direct	9708 Feb 04 19:20	3°♒46'19	
morning max el	9708 Feb 11 05:05	7°♒09'13	18°03'13
	9708 Feb 26 21:47	0°♓	
morning set	9708 Feb 29 09:36	4°♓05'00	
desc. node	9708 Mar 03 00:04	8°♓20'17	
superior conj	9708 Mar 14 23:33	27°♓34'08	-1°20'40
minimum elong	9708 Mar 14 14:49	26°♓59'38	1°19'36
	9708 Mar 16 12:33	0°♈	
max. Earth dist.	9708 Mar 18 01:30	2°♈25'08	1.45463 AU
evening rise	9708 Mar 31 02:58	22°♈43'21	

	9708 Apr	04	20:16	0°♉	
greatest brilliancy	9708 Apr	13	09:19	12°♉58'54	-0.7m
evening max el	9708 Apr	25	03:01	28°♉29'10	19°34'11
asc. node	9708 Apr	25	20:20	29°♉11'30	
	9708 Apr	26	17:55	0°♊	
retrograde	9708 May	02	09:08	2°♊36'42	
evening set	9708 May	06	01:00	1°♊18'28	
	9708 May	07	13:59	30°℞♉	
inferior conj	9708 May	11	10:17	25°♉23'40	3°19'10
minimum elong	9708 May	11	09:54	25°♉24'56	3°18'52
min. Earth dist.	9708 May	12	15:14	23°♉47'56	0.67104 AU
morning rise	9708 May	16	18:28	19°♉04'24	
direct	9708 May	22	19:22	16°♉23'57	
desc. node	9708 May	30	00:17	19°♉17'22	
morning max el	9708 Jun	04	01:24	23°♉44'19	25°33'18
	9708 Jun	09	15:11	0°♊	
	9708 Jun	30	10:17	0°♋	
morning set	9708 Jul	10	03:26	16°♋44'16	
max. Earth dist.	9708 Jul	13	19:49	23°♋33'40	1.36008 AU
	9708 Jul	17	04:11	0°♌	
superior conj	9708 Jul	19	19:08	5°♌11'17	-0°29'19
minimum elong	9708 Jul	19	20:56	5°♌20'16	0°29'17
asc. node	9708 Jul	22	19:29	11°♌16'54	
evening rise	9708 Jul	27	19:41	21°♌32'20	
	9708 Aug	01	01:18	0°♍	
evening max el	9708 Aug	14	11:36	20°♍31'13	20°00'03
retrograde	9708 Aug	24	21:29	25°♍40'44	
desc. node	9708 Aug	25	23:03	25°♍37'42	
evening set	9708 Aug	26	19:12	25°♍31'09	
inferior conj	9708 Sep	04	19:18	21°♍31'21	-2°58'59
minimum elong	9708 Sep	04	11:20	21°♍43'21	2°56'15
min. Earth dist.	9708 Sep	06	15:19	20°♍25'08	0.55061 AU
morning rise	9708 Sep	13	02:05	17°♍17'27	
direct	9708 Sep	17	15:32	16°♍32'12	
morning max el	9708 Oct	01	07:40	23°♍15'26	24°15'33
	9708 Oct	07	08:54	0°♎	
asc. node	9708 Oct	18	19:39	18°♎01'18	
	9708 Oct	24	20:35	0°♏	
morning set	9708 Oct	26	06:28	2°♏59'07	
superior conj	9708 Nov	02	03:22	17°♏55'48	1°39'46
minimum elong	9708 Nov	02	02:49	17°♏52'49	1°40'00
max. Earth dist.	9708 Nov	04	07:23	22°♏37'33	1.32756 AU
	9708 Nov	07	19:04	0°♐	
evening rise	9708 Nov	09	13:18	3°♐36'32	
desc. node	9708 Nov	21	21:19	26°♐21'00	
	9708 Nov	24	03:11	0°♑	
evening max el	9708 Dec	13	04:18	24°♑42'34	27°29'04
	9708 Dec	20	01:12	0°♒	
retrograde	9708 Dec	26	20:41	2°♒02'23	
	9709 Jan	02	03:52	30°℞♑	
evening set	9709 Jan	02	20:17	29°♑31'56	
min. Earth dist.	9709 Jan	06	14:42	26°♑15'58	0.63649 AU
inferior conj	9709 Jan	09	05:55	23°♑35'18	-1°50'12
minimum elong	9709 Jan	09	09:26	23°♑26'21	1°48'25
asc. node	9709 Jan	14	19:06	18°♑52'20	
morning rise	9709 Jan	16	00:32	18°♑17'10	
direct	9709 Jan	18	10:15	17°♑48'50	
morning max el	9709 Jan	24	22:36	21°♑10'56	17°48'19
	9709 Jan	31	16:24	0°♒	
morning set	9709 Feb	10	10:31	16°♒17'51	
desc. node	9709 Feb	17	20:56	28°♒56'17	
	9709 Feb	18	12:10	0°♓	
superior conj	9709 Feb	23	01:37	7°♓31'59	-0°37'50
minimum elong	9709 Feb	22	21:31	7°♓15'17	0°37'04
max. Earth dist.	9709 Feb	28	20:37	16°♓51'53	1.44642 AU
	9709 Mar	09	06:06	0°♈	
evening rise	9709 Mar	10	14:35	2°♈04'56	
	9709 Mar	29	10:34	0°♉	
evening max el	9709 Apr	08	04:39	12°♉10'39	20°35'34
asc. node	9709 Apr	12	17:29	15°♉51'06	
retrograde	9709 Apr	16	07:48	16°♉55'06	
evening set	9709 Apr	20	09:00	15°♉21'17	
inferior conj	9709 Apr	25	16:07	9°♉13'27	3°09'08
minimum elong	9709 Apr	25	14:47	9°♉18'03	3°08'46
min. Earth dist.	9709 Apr	26	07:01	8°♉22'15	0.68030 AU
morning rise	9709 Apr	30	20:21	2°♉56'46	
direct	9709 May	06	08:40	0°♉29'57	
desc. node	9709 May	16	21:14	6°♉33'58	
morning max el	9709 May	17	10:48	7°♉07'46	24°06'38
	9709 Jun	04	06:12	0°♊	
morning set	9709 Jun	22	00:13	28°♊14'54	
	9709 Jun	23	00:29	0°♋	
max. Earth dist.	9709 Jun	25	17:25	4°♋46'17	1.38178 AU
superior conj	9709 Jul	02	22:36	18°♋06'12	-1°02'07
minimum elong	9709 Jul	03	02:39	18°♋25'27	1°01'48
	9709 Jul	09	01:22	0°♌	
asc. node	9709 Jul	09	16:26	1°♌14'20	
evening rise	9709 Jul	11	19:48	5°♌27'55	
	9709 Jul	26	05:31	0°♍	
evening max el	9709 Jul	28	06:21	2°♍13'59	19°01'27
retrograde	9709 Aug	06	01:11	6°♍36'01	
evening set	9709 Aug	07	22:40	6°♍24'38	
desc. node	9709 Aug	12	20:14	4°♍24'27	
inferior conj	9709 Aug	16	06:58	2°♍09'40	-1°03'59
minimum elong	9709 Aug	16	04:13	2°♍14'27	1°03'05
min. Earth dist.	9709 Aug	19	05:05	0°♍08'47	0.56355 AU
	9709 Aug	19	10:23	30°℞♌	
morning rise	9709 Aug	24	06:39	27°♌19'34	
direct	9709 Aug	29	15:26	26°♌11'57	
	9709 Sep	08	17:15	0°♍	
morning max el	9709 Sep	12	20:36	3°♍29'12	25°55'09
	9709 Oct	01	19:10	0°♎	
asc. node	9709 Oct	05	16:32	7°♎20'55	
morning set	9709 Oct	10	17:37	17°♎43'07	
	9709 Oct	16	08:25	0°♏	
superior conj	9709 Oct	17	14:00	2°♏43'52	1°34'00
minimum elong	9709 Oct	17	12:31	2°♏35'38	1°34'03
max. Earth dist.	9709 Oct	18	13:39	4°♏54'34	1.31910 AU
evening rise	9709 Oct	24	14:05	17°♏53'29	
	9709 Oct	30	15:49	0°♐	
desc. node	9709 Nov	08	18:26	15°♐51'08	
	9709 Nov	18	18:38	0°♑	
evening max el	9709 Nov	25	12:46	7°♑23'56	27°21'38
retrograde	9709 Dec	09	09:11	14°♑38'21	
evening set	9709 Dec	16	10:18	12°♑20'54	
min. Earth dist.	9709 Dec	20	03:07	9°♑30'30	0.61683 AU
inferior conj	9709 Dec	23	03:35	6°♑47'19	-3°03'15
minimum elong	9709 Dec	23	09:36	6°♑33'44	3°00'41
morning rise	9709 Dec	30	11:20	1°♑47'44	
direct	9710 Jan	01	16:22	1°♑26'46	
asc. node	9710 Jan	01	16:12	1°♑26'46	
morning max el	9710 Jan	08	15:03	4°♑57'28	17°51'21
morning set	9710 Jan	24	08:07	29°♑28'52	
	9710 Jan	24	15:01	0°♒	
superior conj	9710 Feb	04	04:40	18°♒41'33	0°04'08
minimum elong	9710 Feb	04	05:03	18°♒43'15	0°04'20
behind sun begin	9710 Feb	03	20:49	18°♒07'51	
behind sun end	9710 Feb	04	13:18	19°♒18'33	

desc. node	9710 Feb 04 17:47	19°♒37'43	
	9710 Feb 10 22:41	0°♓	
max. Earth dist.	9710 Feb 11 11:57	0°♓54'14	1.43183 AU
evening rise	9710 Feb 18 07:31	11°♓47'13	
	9710 Mar 02 08:03	0°♈	
evening max el	9710 Mar 22 00:46	25°♈52'49	21°48'18
	9710 Mar 27 00:58	0°♉	
asc. node	9710 Mar 30 14:40	1°♉17'31	
retrograde	9710 Mar 31 05:46	1°♉19'30	
	9710 Apr 04 01:46	30°℞♈	
evening set	9710 Apr 04 17:16	29°♈30'23	
inferior conj	9710 Apr 10 00:29	23°♈11'53	2°48'32
minimum elong	9710 Apr 09 22:31	23°♈18'46	2°48'01
min. Earth dist.	9710 Apr 10 02:24	23°♈05'10	0.68499 AU
morning rise	9710 Apr 15 03:35	16°♈59'23	
direct	9710 Apr 20 02:16	14°♈51'38	
morning max el	9710 Apr 29 21:32	20°♈38'48	22°36'50
desc. node	9710 May 03 18:09	24°♈53'05	
	9710 May 07 20:58	0°♉	
	9710 May 28 11:41	0°♊	
morning set	9710 Jun 02 20:14	8°♊36'33	
max. Earth dist.	9710 Jun 07 14:47	16°♊34'29	1.40450 AU
superior conj	9710 Jun 15 09:48	0°♋14'12	-1°33'26
minimum elong	9710 Jun 15 15:41	0°♋40'49	1°33'04
	9710 Jun 15 06:39	0°♋	
evening rise	9710 Jun 25 10:27	18°♋54'18	
asc. node	9710 Jun 26 13:25	21°♋01'30	
	9710 Jul 01 10:06	0°♌	
evening max el	9710 Jul 11 11:14	14°♌37'52	18°23'53
retrograde	9710 Jul 18 23:45	18°♌24'09	
evening set	9710 Jul 21 03:25	18°♌06'25	
inferior conj	9710 Jul 28 16:10	13°♌31'44	0°36'47
minimum elong	9710 Jul 28 17:27	13°♌29'08	0°36'02
desc. node	9710 Jul 30 17:22	11°♌51'23	
min. Earth dist.	9710 Aug 01 00:49	10°♌49'09	0.58283 AU
morning rise	9710 Aug 05 03:58	8°♌05'28	
direct	9710 Aug 11 06:03	6°♌28'22	
morning max el	9710 Aug 25 15:16	14°♌10'34	27°10'39
	9710 Sep 07 07:18	0°♍	
asc. node	9710 Sep 22 13:24	27°♍00'28	
	9710 Sep 24 00:13	0°♎	
morning set	9710 Sep 25 02:29	2°♎17'54	
superior conj	9710 Oct 02 01:47	17°♎32'24	1°22'41
minimum elong	9710 Oct 01 23:43	17°♎20'50	1°22'31
max. Earth dist.	9710 Oct 01 23:03	17°♎17'12	1.31534 AU
	9710 Oct 07 17:34	0°♏	
evening rise	9710 Oct 08 20:32	2°♏24'27	
	9710 Oct 23 13:59	0°♐	
desc. node	9710 Oct 26 15:33	4°♐42'06	
evening max el	9710 Nov 07 14:58	19°♐19'11	26°40'15
retrograde	9710 Nov 21 13:14	26°♐27'06	
evening set	9710 Nov 28 07:09	24°♐33'04	
min. Earth dist.	9710 Dec 02 04:56	21°♐56'54	0.59581 AU
inferior conj	9710 Dec 05 09:28	19°♐26'16	-4°14'50
minimum elong	9710 Dec 05 17:08	19°♐11'07	4°12'18
morning rise	9710 Dec 13 05:43	14°♐47'59	
direct	9710 Dec 15 09:35	14°♐31'01	
asc. node	9710 Dec 19 13:13	15°♐37'09	
morning max el	9710 Dec 23 02:55	18°♐19'34	18°13'36
	9710 Dec 31 13:06	0°♑	
morning set	9711 Jan 07 20:27	13°♑20'32	
	9711 Jan 16 18:36	0°♒	
superior conj	9711 Jan 17 07:22	0°♒57'50	0°39'39
minimum elong	9711 Jan 17 10:06	1°♒10'13	0°39'34

desc. node	9711 Jan 22 14:41	10°♒21'09	
max. Earth dist.	9711 Jan 24 22:02	14°♒18'00	1.41261 AU
evening rise	9711 Jan 29 17:39	22°♒17'52	
	9711 Feb 03 13:30	0°♓	
	9711 Feb 24 10:01	0°♈	
evening max el	9711 Mar 04 16:42	9°♈37'16	23°07'40
retrograde	9711 Mar 15 01:24	15°♈45'09	
asc. node	9711 Mar 17 11:50	15°♈16'15	
evening set	9711 Mar 20 00:15	13°♈41'34	
inferior conj	9711 Mar 25 09:25	7°♈15'41	2°18'24
minimum elong	9711 Mar 25 07:12	7°♈23'20	2°17'45
min. Earth dist.	9711 Mar 24 23:13	7°♈50'56	0.68528 AU
morning rise	9711 Mar 30 14:04	1°♈08'39	
	9711 Apr 01 08:12	30°℞♓	
direct	9711 Apr 03 23:08	29°♓22'33	
	9711 Apr 06 17:59	0°♈	
morning max el	9711 Apr 12 12:49	4°♈19'14	21°12'28
desc. node	9711 Apr 20 15:01	13°♈57'31	
	9711 May 01 22:30	0°♉	
morning set	9711 May 13 13:29	17°♉45'40	
max. Earth dist.	9711 May 20 17:25	29°♉14'49	1.42553 AU
	9711 May 21 04:28	0°♊	
superior conj	9711 May 28 00:07	11°♊25'14	-1°58'47
minimum elong	9711 May 28 05:54	11°♊50'02	1°58'42
	9711 Jun 07 13:06	0°♋	
evening rise	9711 Jun 08 11:32	1°♋41'02	
asc. node	9711 Jun 13 10:25	10°♋33'19	
evening max el	9711 Jun 24 22:19	27°♋33'09	18°06'20
	9711 Jun 28 02:18	0°♌	
retrograde	9711 Jul 01 15:42	0°♌58'51	
evening set	9711 Jul 04 03:14	0°♌31'05	
	9711 Jul 05 07:12	30°℞♋	
inferior conj	9711 Jul 10 22:04	25°♋36'12	1°51'51
minimum elong	9711 Jul 11 00:53	25°♋29'33	1°50'38
min. Earth dist.	9711 Jul 14 04:04	22°♋33'48	0.60526 AU
morning rise	9711 Jul 17 19:45	19°♋43'00	
desc. node	9711 Jul 17 14:30	19°♋51'30	
direct	9711 Jul 24 09:24	17°♋35'59	
morning max el	9711 Aug 07 16:43	25°♋33'07	27°50'57
	9711 Aug 11 19:26	0°♌	
	9711 Aug 31 18:38	0°♍	
morning set	9711 Sep 09 07:11	16°♍37'14	
asc. node	9711 Sep 09 10:15	16°♍53'10	
max. Earth dist.	9711 Sep 15 07:55	29°♍34'48	1.31639 AU
	9711 Sep 15 12:29	0°♎	
superior conj	9711 Sep 16 12:52	2°♎14'39	1°06'09
minimum elong	9711 Sep 16 10:37	2°♎02'17	1°05'46
evening rise	9711 Sep 23 06:26	17°♎02'15	
	9711 Sep 29 14:25	0°♏	
desc. node	9711 Oct 13 12:42	22°♏37'32	
	9711 Oct 19 23:39	0°♐	
evening max el	9711 Oct 20 09:15	0°♐23'03	25°27'09
retrograde	9711 Nov 03 06:49	7°♐23'22	
evening set	9711 Nov 09 05:58	6°♐01'34	
min. Earth dist.	9711 Nov 13 21:28	3°♐23'10	0.57544 AU
inferior conj	9711 Nov 16 20:14	1°♐22'10	-5°13'43
minimum elong	9711 Nov 17 02:46	1°♐10'57	5°12'19
	9711 Nov 18 21:16	30°℞♏	
morning rise	9711 Nov 25 01:53	27°♏06'17	
direct	9711 Nov 27 09:45	26°♏49'54	
	9711 Dec 05 01:03	0°♐	
asc. node	9711 Dec 06 10:14	1°♐15'13	
morning max el	9711 Dec 06 06:22	1°♐05'49	18°56'57
morning set	9711 Dec 22 18:55	27°♐39'20	
	9711 Dec 23 23:28	0°♑	

superior conj	9711 Dec 31 05:03	14°♑07'19	1°06'49
minimum elong	9711 Dec 31 08:14	14°♑22'31	1°06'46
max. Earth dist.	9712 Jan 07 04:31	27°♑00'28	1.39096 AU
	9712 Jan 08 21:10	0°♒	
desc. node	9712 Jan 09 11:36	1°♒02'57	
evening rise	9712 Jan 11 01:26	3°♒46'04	
	9712 Jan 27 17:14	0°♓	
evening max el	9712 Feb 15 06:34	23°♓25'33	24°27'30
	9712 Feb 25 08:42	0°♈	
retrograde	9712 Feb 26 17:25	0°♈07'31	
	9712 Feb 28 01:07	30°℞♓	
evening set	9712 Mar 03 04:26	27°♓50'51	
asc. node	9712 Mar 03 09:00	27°♓40'58	
min. Earth dist.	9712 Mar 07 19:10	22°♓35'06	0.68141 AU
inferior conj	9712 Mar 08 17:05	21°♓21'39	1°39'14
minimum elong	9712 Mar 08 15:06	21°♓28'20	1°38'37
morning rise	9712 Mar 14 01:52	15°♓21'37	
direct	9712 Mar 17 22:02	13°♓57'14	
morning max el	9712 Mar 25 11:26	18°♓11'47	19°59'35
	9712 Apr 03 23:27	0°♈	
desc. node	9712 Apr 06 11:53	3°♈34'59	
morning set	9712 Apr 21 13:05	26°♈11'05	
	9712 Apr 24 00:18	0°♉	
max. Earth dist.	9712 May 02 03:40	12°♉47'34	1.44226 AU
superior conj	9712 May 07 14:14	21°♉33'32	-2°12'04
minimum elong	9712 May 07 16:00	21°♉40'42	2°12'19
	9712 May 12 17:09	0°♊	
evening rise	9712 May 20 18:17	13°♊37'44	
asc. node	9712 May 30 07:29	29°♊44'18	
	9712 May 30 11:24	0°♋	
evening max el	9712 Jun 07 11:56	10°♋50'41	18°07'53
retrograde	9712 Jun 13 21:09	14°♋11'03	
evening set	9712 Jun 16 16:28	13°♋30'41	
inferior conj	9712 Jun 22 21:04	8°♋16'47	2°41'08
minimum elong	9712 Jun 22 23:39	8°♋09'52	2°40'12
min. Earth dist.	9712 Jun 25 16:09	5°♋18'16	0.62760 AU
morning rise	9712 Jun 29 05:05	2°♋07'12	
desc. node	9712 Jul 03 11:36	29°♊56'37	
	9712 Jul 03 06:45	30°℞♊	
direct	9712 Jul 05 22:45	29°♊37'00	
	9712 Jul 08 17:15	0°♋	
morning max el	9712 Jul 19 23:45	7°♋39'27	27°52'48
	9712 Aug 06 02:46	0°♌	
	9712 Aug 22 22:34	0°♍	
morning set	9712 Aug 23 05:41	0°♍35'56	
asc. node	9712 Aug 26 07:08	6°♍54'31	
max. Earth dist.	9712 Aug 28 12:33	11°♍38'00	1.32240 AU
superior conj	9712 Aug 30 21:25	16°♍45'35	0°44'42
minimum elong	9712 Aug 30 19:32	16°♍35'22	0°44'14
	9712 Sep 05 22:58	0°♎	
evening rise	9712 Sep 06 17:54	1°♎41'47	
	9712 Sep 22 02:02	0°♏	
desc. node	9712 Sep 29 09:53	9°♏16'20	
evening max el	9712 Sep 30 21:04	10°♏45'06	23°52'21
retrograde	9712 Oct 14 11:42	17°♏33'17	
evening set	9712 Oct 19 04:06	16°♏45'21	
min. Earth dist.	9712 Oct 25 07:31	13°♏46'17	0.55861 AU
inferior conj	9712 Oct 27 10:35	12°♏29'21	-5°41'44
minimum elong	9712 Oct 27 11:21	12°♏28'11	5°41'29
morning rise	9712 Nov 04 20:33	8°♏33'17	
direct	9712 Nov 07 14:42	8°♏14'02	
morning max el	9712 Nov 17 21:51	13°♏06'03	20°02'55
asc. node	9712 Nov 22 07:13	18°♏06'10	
	9712 Nov 29 17:45	0°♐	
morning set	9712 Dec 06 00:07	12°♐15'12	
superior conj	9712 Dec 13 16:53	27°♐56'19	1°25'33
minimum elong	9712 Dec 13 19:24	28°♐08'54	1°25'40
	9712 Dec 14 17:42	0°♑	
max. Earth dist.	9712 Dec 19 11:12	9°♑09'50	1.36935 AU
evening rise	9712 Dec 23 05:39	16°♑07'22	
desc. node	9712 Dec 26 08:34	21°♑39'06	
	9712 Dec 31 07:22	0°♒	
	9713 Jan 21 05:51	0°♓	
evening max el	9713 Jan 27 19:54	7°♓14'54	25°40'49
retrograde	9713 Feb 09 04:45	14°♓20'41	
evening set	9713 Feb 15 04:12	11°♓53'23	
asc. node	9713 Feb 18 06:11	8°♓43'43	
min. Earth dist.	9713 Feb 19 11:57	7°♓12'33	0.67355 AU
inferior conj	9713 Feb 20 21:35	5°♓25'41	0°51'13
minimum elong	9713 Feb 20 20:21	5°♓29'36	0°50'54
	9713 Feb 25 22:14	30°℞♒	
morning rise	9713 Feb 26 12:58	29°♒34'25	
direct	9713 Mar 01 21:22	28°♒30'05	
	9713 Mar 06 01:42	0°♓	
morning max el	9713 Mar 08 17:55	2°♓14'47	19°01'31
greatest brilliancy	9713 Mar 22 08:12	20°♓31'21	-0.8m
desc. node	9713 Mar 24 08:42	23°♓36'13	
	9713 Mar 28 12:24	0°♈	
morning set	9713 Mar 31 17:16	4°♈57'38	
max. Earth dist.	9713 Apr 14 19:59	26°♈57'40	1.45281 AU
	9713 Apr 16 18:21	0°♉	
superior conj	9713 Apr 17 06:02	0°♉46'03	-2°07'09
minimum elong	9713 Apr 17 00:33	0°♉24'26	2°07'06
evening rise	9713 May 02 02:22	24°♉35'39	
	9713 May 05 09:48	0°♊	
asc. node	9713 May 17 04:35	18°♊26'26	
evening max el	9713 May 22 00:50	24°♊21'07	18°27'48
retrograde	9713 May 28 11:41	27°♊50'18	
evening set	9713 May 31 14:37	26°♊55'50	
inferior conj	9713 Jun 06 08:58	21°♊24'37	3°08'53
minimum elong	9713 Jun 06 10:30	21°♊20'04	3°08'21
min. Earth dist.	9713 Jun 08 13:32	18°♊49'09	0.64751 AU
morning rise	9713 Jun 12 05:26	15°♊06'58	
direct	9713 Jun 18 20:16	12°♊24'08	
desc. node	9713 Jun 20 08:40	12°♊31'49	
morning max el	9713 Jul 02 09:54	20°♊21'33	27°19'24
	9713 Jul 10 16:31	0°♋	
	9713 Jul 30 04:54	0°♌	
morning set	9713 Aug 06 19:21	14°♌06'55	
max. Earth dist.	9713 Aug 11 09:19	23°♌18'19	1.33330 AU
asc. node	9713 Aug 13 04:03	27°♌00'04	
	9713 Aug 14 14:14	0°♍	
superior conj	9713 Aug 15 01:24	0°♍59'11	0°18'46
minimum elong	9713 Aug 15 00:28	0°♍54'15	0°18'23
evening rise	9713 Aug 22 05:02	16°♍17'21	
	9713 Aug 29 00:11	0°♎	
evening max el	9713 Sep 12 09:24	20°♎54'38	22°12'31
desc. node	9713 Sep 16 07:05	24°♎11'06	
retrograde	9713 Sep 25 04:55	27°♎17'36	
evening set	9713 Sep 28 09:42	26°♎54'54	
min. Earth dist.	9713 Oct 06 15:01	23°♎18'25	0.54832 AU
inferior conj	9713 Oct 07 08:23	22°♎54'02	-5°19'09
minimum elong	9713 Oct 07 01:20	23°♎03'57	5°17'57
morning rise	9713 Oct 15 18:34	19°♎06'51	
direct	9713 Oct 19 03:31	18°♎41'32	
morning max el	9713 Oct 31 00:01	24°♎16'40	21°30'43
	9713 Nov 05 02:11	0°♏	
asc. node	9713 Nov 09 04:11	5°♏54'48	
morning set	9713 Nov 20 09:28	27°♏01'00	
	9713 Nov 21 19:35	0°♐	

superior conj	9713 Nov 27 14:51	12°♐13'39	1°36'29
minimum elong	9713 Nov 27 16:13	12°♐20'44	1°36'45
max. Earth dist.	9713 Dec 01 22:34	21°♐03'55	1.34999 AU
evening rise	9713 Dec 06 02:57	29°♐13'20	
	9713 Dec 06 12:49	0°♑	
desc. node	9713 Dec 13 05:35	12°♑05'20	
	9713 Dec 24 11:43	0°♒	
evening max el	9714 Jan 10 09:18	20°♒59'20	26°40'20
retrograde	9714 Jan 23 10:48	28°♒18'16	
evening set	9714 Jan 29 21:45	25°♒44'24	
min. Earth dist.	9714 Feb 02 23:23	21°♒38'06	0.66187 AU
inferior conj	9714 Feb 04 20:49	19°♒23'42	-0°05'23
minimum elong	9714 Feb 04 20:58	19°♒23'17	0°05'04
transit middle	9714 Feb 04 20:58	19°♒23'17	0°05'04
transit begin	9714 Feb 04 18:11	19°♒31'32	
transit end	9714 Feb 04 23:44	19°♒15'04	
asc. node	9714 Feb 05 03:20	19°♒04'27	
morning rise	9714 Feb 10 21:13	13°♒43'21	
direct	9714 Feb 13 19:17	12°♒56'01	
morning max el	9714 Feb 20 06:49	16°♒23'34	18°19'44
	9714 Mar 02 10:44	0°♓	
desc. node	9714 Mar 11 05:34	13°♓55'01	
morning set	9714 Mar 11 21:55	15°♓00'24	
	9714 Mar 21 08:22	0°♈	
superior conj	9714 Mar 27 11:43	9°♈38'40	-1°42'10
minimum elong	9714 Mar 27 02:10	9°♈01'15	1°41'19
max. Earth dist.	9714 Mar 28 15:22	11°♈26'49	1.45611 AU
	9714 Apr 09 12:11	0°♉	
evening rise	9714 Apr 12 11:02	4°♉37'37	
greatest brilliancy	9714 Apr 23 01:14	21°♉09'06	-0.8m
	9714 Apr 29 00:24	0°♊	
asc. node	9714 May 04 01:42	6°♊30'38	
evening max el	9714 May 05 10:32	7°♊58'29	19°05'11
retrograde	9714 May 12 07:33	11°♊49'10	
evening set	9714 May 15 18:26	10°♊39'48	
inferior conj	9714 May 21 06:08	4°♊53'01	3°19'29
minimum elong	9714 May 21 06:25	4°♊52'05	3°19'09
min. Earth dist.	9714 May 22 19:33	2°♊53'14	0.66369 AU
	9714 May 25 06:20	30°♉	
morning rise	9714 May 26 17:54	28°♉33'00	
direct	9714 Jun 02 00:49	25°♉48'44	
desc. node	9714 Jun 07 05:42	27°♉19'40	
	9714 Jun 11 02:33	0°♊	
morning max el	9714 Jun 14 20:39	3°♊27'45	26°17'47
	9714 Jul 04 23:52	0°♋	
morning set	9714 Jul 20 20:47	27°♋01'03	
	9714 Jul 22 10:46	0°♌	
max. Earth dist.	9714 Jul 24 19:36	4°♌33'48	1.34904 AU
superior conj	9714 Jul 29 22:20	14°♌48'39	-0°10'58
minimum elong	9714 Jul 29 22:59	14°♌51'57	0°11'07
behind sun begin	9714 Jul 29 18:39	14°♌29'44	
behind sun end	9714 Jul 30 03:19	15°♌14'11	
asc. node	9714 Jul 31 00:58	17°♌05'36	
	9714 Aug 06 05:34	0°♍	
evening rise	9714 Aug 06 13:48	0°♍42'44	
	9714 Aug 23 21:46	0°♎	
evening max el	9714 Aug 25 07:16	1°♎27'47	20°43'07
desc. node	9714 Sep 03 04:18	6°♎50'53	
retrograde	9714 Sep 05 17:03	7°♎07'12	
evening set	9714 Sep 07 20:35	6°♎56'00	
inferior conj	9714 Sep 17 00:43	2°♎59'39	-4°01'12
minimum elong	9714 Sep 16 15:02	3°♎13'31	3°58'20
min. Earth dist.	9714 Sep 17 23:38	2°♎26'47	0.54695 AU
	9714 Sep 22 16:29	30°♍	
morning rise	9714 Sep 25 09:21	29°♍00'55	
direct	9714 Sep 29 11:33	28°♍25'02	
	9714 Oct 05 23:50	0°♎	
morning max el	9714 Oct 12 15:38	4°♎45'29	23°14'04
asc. node	9714 Oct 27 01:07	24°♎26'59	
	9714 Oct 30 01:10	0°♏	
morning set	9714 Nov 04 20:51	11°♏49'47	
superior conj	9714 Nov 11 19:40	26°♏48'46	1°40'24
minimum elong	9714 Nov 11 19:47	26°♏49'23	1°40'42
	9714 Nov 13 07:25	0°♐	
max. Earth dist.	9714 Nov 14 17:32	3°♐00'30	1.33441 AU
evening rise	9714 Nov 19 13:29	12°♐53'33	
	9714 Nov 28 18:53	0°♑	
desc. node	9714 Nov 30 02:37	2°♑15'28	
	9714 Dec 19 15:15	0°♒	
evening max el	9714 Dec 23 22:10	4°♒28'36	27°19'00
retrograde	9715 Jan 06 10:49	11°♒51'01	
evening set	9715 Jan 13 06:52	9°♒16'54	
min. Earth dist.	9715 Jan 17 03:23	5°♒43'29	0.64661 AU
inferior conj	9715 Jan 19 12:25	3°♒09'23	-1°10'00
minimum elong	9715 Jan 19 14:33	3°♒03'36	1°08'46
	9715 Jan 22 15:17	30°♑	
asc. node	9715 Jan 23 00:28	29°♑39'57	
morning rise	9715 Jan 25 23:54	27°♑42'23	
direct	9715 Jan 28 13:24	27°♑08'21	
	9715 Feb 03 10:57	0°♒	
morning max el	9715 Feb 03 23:30	0°♒29'52	17°54'48
morning set	9715 Feb 21 07:48	26°♒29'13	
	9715 Feb 23 10:21	0°♓	
desc. node	9715 Feb 26 02:24	4°♓25'37	
superior conj	9715 Mar 07 02:00	19°♓01'33	-1°02'55
minimum elong	9715 Mar 06 18:59	18°♓33'30	1°01'55
max. Earth dist.	9715 Mar 11 10:44	25°♓56'55	1.45193 AU
	9715 Mar 14 00:42	0°♈	
evening rise	9715 Mar 23 02:25	14°♈03'03	
	9715 Apr 02 14:10	0°♉	
greatest brilliancy	9715 Apr 06 20:29	6°♉18'55	-0.6m
evening max el	9715 Apr 18 15:18	21°♉39'09	19°58'39
asc. node	9715 Apr 20 22:50	23°♉45'17	
retrograde	9715 Apr 26 05:52	26°♉01'53	
evening set	9715 Apr 30 01:28	24°♉37'13	
inferior conj	9715 May 05 09:32	18°♉36'36	3°16'18
minimum elong	9715 May 05 08:43	18°♉39'22	3°15'59
min. Earth dist.	9715 May 06 08:26	17°♉19'21	0.67551 AU
morning rise	9715 May 10 15:39	12°♉17'54	
direct	9715 May 16 11:23	9°♉42'14	
desc. node	9715 May 25 02:42	13°♉50'13	
morning max el	9715 May 28 06:22	16°♉46'52	24°57'22
	9715 Jun 08 05:48	0°♊	
	9715 Jun 27 23:06	0°♋	
morning set	9715 Jul 03 05:35	9°♋06'53	
max. Earth dist.	9715 Jul 06 19:59	15°♋37'53	1.36898 AU
superior conj	9715 Jul 13 09:17	28°♋06'41	-0°43'12
minimum elong	9715 Jul 13 12:01	28°♋20'05	0°43'02
	9715 Jul 14 08:18	0°♌	
asc. node	9715 Jul 17 21:53	7°♌07'28	
evening rise	9715 Jul 21 17:53	14°♌51'42	
	9715 Jul 29 15:51	0°♍	
evening max el	9715 Aug 07 18:50	12°♍45'24	19°32'33
retrograde	9715 Aug 17 11:34	17°♍33'33	
evening set	9715 Aug 19 07:44	17°♍23'56	
desc. node	9715 Aug 21 01:30	16°♍58'13	
inferior conj	9715 Aug 28 02:10	13°♍19'08	-2°09'56
minimum elong	9715 Aug 27 20:19	13°♍28'26	2°07'50
min. Earth dist.	9715 Aug 30 11:20	11°♍48'26	0.55514 AU

morning rise	9715 Sep 05 06:31	8°♍50'22	
direct	9715 Sep 10 04:14	7°♍56'25	
morning max el	9715 Sep 24 03:22	14°♍56'05	24°59'47
	9715 Oct 06 02:37	0°♎	
asc. node	9715 Oct 13 22:02	13°♎32'00	
morning set	9715 Oct 20 08:32	26°♎36'47	
	9715 Oct 21 22:17	0°♏	
superior conj	9715 Oct 27 04:48	11°♏34'08	1°38'00
minimum elong	9715 Oct 27 03:49	11°♏28'45	1°38'12
max. Earth dist.	9715 Oct 28 20:13	15°♏09'45	1.32337 AU
evening rise	9715 Nov 03 09:56	26°♏59'35	
	9715 Nov 04 21:25	0°♐	
desc. node	9715 Nov 16 23:41	22°♐02'38	
	9715 Nov 22 02:37	0°♑	
evening max el	9715 Dec 06 09:02	17°♑31'30	27°29'59
retrograde	9715 Dec 20 03:55	24°♑49'52	
evening set	9715 Dec 27 04:48	22°♑23'53	
min. Earth dist.	9715 Dec 30 22:03	19°♑19'31	0.62833 AU
inferior conj	9716 Jan 02 17:33	16°♑36'05	-2°20'56
minimum elong	9716 Jan 02 22:08	16°♑24'56	2°18'46
morning rise	9716 Jan 09 17:41	11°♑25'20	
asc. node	9716 Jan 09 21:35	11°♑22'01	
direct	9716 Jan 12 00:56	11°♑00'41	
morning max el	9716 Jan 18 16:54	14°♑25'43	17°47'19
	9716 Jan 29 12:07	0°♒	
morning set	9716 Feb 03 18:15	9°♒08'41	
desc. node	9716 Feb 12 23:13	25°♒03'55	
superior conj	9716 Feb 15 14:18	29°♒28'37	-0°19'30
minimum elong	9716 Feb 15 12:19	29°♒20'24	0°18'59
	9716 Feb 15 21:50	0°♓	
max. Earth dist.	9716 Feb 22 03:56	10°♓12'52	1.44086 AU
evening rise	9716 Mar 01 14:18	23°♓28'27	
	9716 Mar 05 20:42	0°♈	
	9716 Mar 26 22:01	0°♉	
evening max el	9716 Mar 31 14:33	5°♉21'02	21°05'30
asc. node	9716 Apr 06 19:59	9°♉55'41	
retrograde	9716 Apr 09 04:20	10°♉23'05	
evening set	9716 Apr 13 09:45	8°♉42'54	
inferior conj	9716 Apr 18 16:40	2°♉30'27	3°01'39
minimum elong	9716 Apr 18 15:01	2°♉36'11	3°01'12
min. Earth dist.	9716 Apr 19 02:02	1°♉58'01	0.68282 AU
	9716 Apr 20 12:43	30°℞♈	
morning rise	9716 Apr 23 20:04	26°♈15'19	
direct	9716 Apr 29 02:45	23°♈55'48	
	9716 May 09 10:42	0°♉	
morning max el	9716 May 09 15:44	0°♉12'37	23°28'14
desc. node	9716 May 10 23:37	1°♉35'43	
	9716 Jun 01 02:12	0°♊	
morning set	9716 Jun 13 16:22	20°♊09'37	
max. Earth dist.	9716 Jun 17 16:17	27°♊01'11	1.39149 AU
	9716 Jun 19 08:56	0°♋	
superior conj	9716 Jun 25 06:24	10°♋43'21	-1°15'48
minimum elong	9716 Jun 25 11:20	11°♋06'22	1°15'25
asc. node	9716 Jul 03 18:50	27°♋01'08	
evening rise	9716 Jul 04 14:23	28°♋35'55	
	9716 Jul 05 07:46	0°♌	
evening max el	9716 Jul 20 18:27	24°♌47'12	18°42'57
retrograde	9716 Jul 28 22:46	28°♌51'44	
evening set	9716 Jul 30 22:40	28°♌38'03	
desc. node	9716 Aug 06 22:42	24°♌59'05	
inferior conj	9716 Aug 07 22:43	24°♌15'05	-0°18'25
minimum elong	9716 Aug 07 21:58	24°♌16'28	0°18'22
min. Earth dist.	9716 Aug 11 03:19	21°♌54'16	0.57126 AU
morning rise	9716 Aug 15 17:52	19°♌09'13	
direct	9716 Aug 21 10:49	17°♌49'22	
morning max el	9716 Sep 04 18:06	25°♌17'55	26°30'54
	9716 Sep 09 03:15	0°♍	
	9716 Sep 28 06:17	0°♎	
asc. node	9716 Sep 29 18:54	3°♎00'40	
morning set	9716 Oct 03 18:54	11°♎17'04	
superior conj	9716 Oct 10 16:09	26°♎22'51	1°29'50
minimum elong	9716 Oct 10 14:22	26°♎12'56	1°29'49
max. Earth dist.	9716 Oct 11 04:15	27°♎30'04	1.31698 AU
	9716 Oct 12 07:19	0°♏	
evening rise	9716 Oct 17 13:25	11°♏23'22	
	9716 Oct 27 02:07	0°♐	
desc. node	9716 Nov 02 20:49	11°♐17'34	
evening max el	9716 Nov 17 15:26	29°♐55'15	27°08'17
	9716 Nov 17 17:27	0°♑	
retrograde	9716 Dec 01 12:52	7°♑06'12	
evening set	9716 Dec 08 12:02	4°♑57'54	
min. Earth dist.	9716 Dec 12 06:04	2°♑15'00	0.60793 AU
	9716 Dec 14 21:33	30°℞♐	
inferior conj	9716 Dec 15 08:57	29°♐35'29	-3°34'20
minimum elong	9716 Dec 15 15:52	29°♐20'43	3°31'40
morning rise	9716 Dec 22 22:11	24°♐44'17	
direct	9716 Dec 25 02:15	24°♐25'22	
asc. node	9716 Dec 26 18:39	24°♐37'12	
morning max el	9717 Jan 01 07:46	28°♐02'42	17°58'20
	9717 Jan 03 03:00	0°♑	
morning set	9717 Jan 16 22:48	22°♑39'19	
	9717 Jan 20 22:49	0°♒	
superior conj	9717 Jan 27 03:50	11°♒07'42	0°20'09
minimum elong	9717 Jan 27 05:30	11°♒15'00	0°20'12
desc. node	9717 Jan 29 20:04	15°♒46'34	
max. Earth dist.	9717 Feb 03 17:27	24°♒01'36	1.42410 AU
	9717 Feb 07 09:13	0°♓	
evening rise	9717 Feb 09 13:37	3°♓29'35	
	9717 Feb 27 05:42	0°♈	
evening max el	9717 Mar 14 08:50	19°♈04'48	22°21'41
retrograde	9717 Mar 24 01:22	24°♈48'50	
asc. node	9717 Mar 24 17:10	24°♈46'41	
evening set	9717 Mar 28 17:39	22°♈53'24	
inferior conj	9717 Apr 03 01:30	16°♈31'36	2°36'55
minimum elong	9717 Apr 02 23:23	16°♈39'00	2°36'19
min. Earth dist.	9717 Apr 02 22:12	16°♈43'05	0.68565 AU
morning rise	9717 Apr 08 04:57	10°♈21'28	
direct	9717 Apr 12 21:54	8°♈22'39	
morning max el	9717 Apr 22 03:55	13°♈47'08	21°59'57
desc. node	9717 Apr 27 20:29	20°♈15'50	
	9717 May 05 03:46	0°♉	
morning set	9717 May 25 00:48	29°♉59'28	
	9717 May 25 00:56	0°♊	
max. Earth dist.	9717 May 30 15:57	9°♊12'59	1.41389 AU
superior conj	9717 Jun 07 09:18	22°♊28'45	-1°45'14
minimum elong	9717 Jun 07 15:31	22°♊56'10	1°44'56
	9717 Jun 11 14:07	0°♋	
evening rise	9717 Jun 17 23:49	11°♋47'02	
asc. node	9717 Jun 20 15:49	16°♋42'34	
	9717 Jun 28 08:22	0°♌	
evening max el	9717 Jul 04 02:27	7°♌25'42	18°13'56
retrograde	9717 Jul 11 05:17	11°♌01'15	
evening set	9717 Jul 13 12:22	10°♌39'32	
inferior conj	9717 Jul 20 17:04	5°♌55'45	1°11'58
minimum elong	9717 Jul 20 19:17	5°♌50'57	1°10'52
min. Earth dist.	9717 Jul 24 01:46	3°♌02'10	0.59228 AU
desc. node	9717 Jul 24 19:51	2°♌25'48	
morning rise	9717 Jul 27 23:00	0°♌16'51	

	9717 Jul	28	11:16	30°℞♋	
direct	9717 Aug	03	06:51	28°♋26'58	
	9717 Aug	09	08:15	0°♌	
morning max el	9717 Aug	17	15:41	6°♌15'40	27°32'26
	9717 Sep	04	09:36	0°♍	
asc. node	9717 Sep	16	15:45	22°♍46'22	
morning set	9717 Sep	18	02:14	25°♍45'51	
	9717 Sep	20	02:00	0°♎	
max. Earth dist.	9717 Sep	24	14:06	9°♎52'49	1.31528 AU
superior conj	9717 Sep	25	03:51	11°♎09'10	1°16'16
minimum elong	9717 Sep	25	01:39	10°♎56'55	1°16'01
evening rise	9717 Oct	01	21:37	25°♎58'01	
	9717 Oct	03	19:26	0°♏	
desc. node	9717 Oct	20	17:59	29°♏47'06	
	9717 Oct	20	21:39	0°♐	
evening max el	9717 Oct	30	14:25	11°♐28'35	26°12'33
retrograde	9717 Nov	13	12:19	18°♐32'46	
evening set	9717 Nov	20	00:03	16°♐51'33	
min. Earth dist.	9717 Nov	24	03:27	14°♐16'56	0.58693 AU
inferior conj	9717 Nov	27	07:02	11°♐57'03	-4°42'20
minimum elong	9717 Nov	27	14:43	11°♐42'47	4°40'09
morning rise	9717 Dec	05	07:49	7°♐28'21	
direct	9717 Dec	07	12:52	7°♐11'55	
asc. node	9717 Dec	13	15:41	9°♐26'22	
morning max el	9717 Dec	15	16:30	11°♐10'34	18°29'25
	9717 Dec	28	03:03	0°♑	
morning set	9717 Dec	31	15:57	6°♑44'01	
superior conj	9718 Jan	09	15:16	23°♑48'28	0°52'13
minimum elong	9718 Jan	09	18:23	24°♑02'53	0°52'08
	9718 Jan	13	00:43	0°♒	
desc. node	9718 Jan	16	16:58	6°♒29'32	
max. Earth dist.	9718 Jan	17	02:12	7°♒09'34	1.40353 AU
evening rise	9718 Jan	21	08:48	14°♒24'13	
	9718 Jan	31	04:08	0°♓	
	9718 Feb	22	07:07	0°♈	
evening max el	9718 Feb	24	23:34	2°♈50'22	23°41'56
retrograde	9718 Mar	07	19:32	9°♈13'43	
asc. node	9718 Mar	11	14:22	8°♈05'17	
evening set	9718 Mar	12	23:39	7°♈04'02	
inferior conj	9718 Mar	18	10:07	0°♈36'14	2°02'52
minimum elong	9718 Mar	18	07:56	0°♈43'42	2°02'13
min. Earth dist.	9718 Mar	17	18:49	1°♈28'32	0.68414 AU
	9718 Mar	18	20:44	30°℞♓	
morning rise	9718 Mar	23	16:14	24°♓32'15	
direct	9718 Mar	27	19:40	22°♓55'39	
morning max el	9718 Apr	04	22:14	27°♓32'50	20°39'54
	9718 Apr	07	05:22	0°♈	
desc. node	9718 Apr	14	17:19	9°♈35'09	
	9718 Apr	28	16:08	0°♉	
morning set	9718 May	04	08:35	8°♉44'01	
max. Earth dist.	9718 May	12	22:09	22°♉17'45	1.43328 AU
	9718 May	17	15:12	0°♊	
superior conj	9718 May	19	13:30	3°♊12'44	-2°06'16
minimum elong	9718 May	19	18:09	3°♊32'12	2°06'22
evening rise	9718 May	31	17:43	24°♊13'55	
	9718 Jun	04	00:16	0°♋	
asc. node	9718 Jun	07	12:52	6°♋06'27	
evening max el	9718 Jun	17	14:58	20°♋31'12	18°04'40
retrograde	9718 Jun	24	03:46	23°♋53'15	
evening set	9718 Jun	26	18:32	23°♋20'27	
inferior conj	9718 Jul	03	06:48	18°♋17'04	2°15'39
minimum elong	9718 Jul	03	09:40	18°♋09'53	2°14'31
min. Earth dist.	9718 Jul	06	08:45	15°♋13'38	0.61487 AU
morning rise	9718 Jul	09	22:28	12°♋15'24	
desc. node	9718 Jul	11	16:57	11°♋11'48	
direct	9718 Jul	16	14:29	9°♋57'37	
morning max el	9718 Jul	30	20:04	17°♋58'32	27°56'28
	9718 Aug	09	21:27	0°♌	
	9718 Aug	28	04:06	0°♍	
morning set	9718 Sep	02	04:41	9°♍58'04	
asc. node	9718 Sep	03	12:38	12°♍43'43	
max. Earth dist.	9718 Sep	07	21:50	22°♍06'54	1.31834 AU
superior conj	9718 Sep	09	14:08	25°♍47'48	0°57'39
minimum elong	9718 Sep	09	11:59	25°♍35'58	0°57'12
	9718 Sep	11	11:52	0°♎	
evening rise	9718 Sep	16	08:28	10°♎37'45	
	9718 Sep	26	03:12	0°♏	
desc. node	9718 Oct	07	15:11	17°♏13'35	
evening max el	9718 Oct	12	05:17	22°♏12'07	24°48'29
retrograde	9718 Oct	26	00:56	29°♏08'59	
evening set	9718 Oct	31	12:29	28°♏01'38	
min. Earth dist.	9718 Nov	05	16:39	25°♏16'48	0.56767 AU
inferior conj	9718 Nov	08	09:07	23°♏32'44	-5°30'39
minimum elong	9718 Nov	08	13:47	23°♏25'10	5°29'52
morning rise	9718 Nov	16	17:21	19°♏26'26	
direct	9718 Nov	19	04:46	19°♏09'20	
morning max el	9718 Nov	28	15:23	23°♏39'13	19°22'15
asc. node	9718 Nov	30	12:41	25°♏37'47	
	9718 Dec	03	21:57	0°♐	
morning set	9718 Dec	15	17:41	21°♐11'15	
	9718 Dec	20	03:10	0°♑	
superior conj	9718 Dec	23	19:37	7°♑16'53	1°15'45
minimum elong	9718 Dec	23	22:36	7°♑31'28	1°15'46
max. Earth dist.	9718 Dec	30	07:58	19°♑35'12	1.38160 AU
evening rise	9719 Jan	03	01:39	26°♑15'53	
desc. node	9719 Jan	03	13:55	27°♑09'27	
	9719 Jan	05	05:29	0°♒	
	9719 Jan	24	17:45	0°♓	
evening max el	9719 Feb	07	12:51	16°♓38'29	24°59'50
retrograde	9719 Feb	19	09:50	23°♓32'40	
evening set	9719 Feb	25	02:10	21°♓10'53	
asc. node	9719 Feb	26	11:33	19°♓51'49	
min. Earth dist.	9719 Mar	01	13:41	16°♓10'01	0.67852 AU
inferior conj	9719 Mar	02	16:40	14°♓41'24	1°19'54
minimum elong	9719 Mar	02	14:55	14°♓47'07	1°19'23
morning rise	9719 Mar	08	03:58	8°♓44'56	
direct	9719 Mar	11	18:52	7°♓29'36	
morning max el	9719 Mar	19	00:19	11°♓30'11	19°32'56
greatest brilliancy	9719 Mar	31	16:52	28°♓04'30	-0.7m
desc. node	9719 Apr	01	14:10	29°♓23'10	
	9719 Apr	02	00:05	0°♈	
morning set	9719 Apr	13	06:56	17°♈08'48	
	9719 Apr	21	13:40	0°♉	
max. Earth dist.	9719 Apr	25	10:45	6°♉06'04	1.44750 AU
superior conj	9719 Apr	29	17:17	12°♉54'05	-2°12'29
minimum elong	9719 Apr	29	16:05	12°♉49'18	2°12'42
	9719 May	10	04:30	0°♊	
evening rise	9719 May	13	15:13	5°♊45'38	
asc. node	9719 May	25	09:58	25°♊06'00	
	9719 May	28	20:14	0°♋	
evening max el	9719 Jun	01	04:35	3°♋54'36	18°14'13
retrograde	9719 Jun	07	13:34	7°♋17'20	
evening set	9719 Jun	10	12:00	6°♋31'17	
inferior conj	9719 Jun	16	11:47	1°♋10'03	2°55'14
minimum elong	9719 Jun	16	13:59	1°♋03'53	2°54'29
	9719 Jun	17	12:37	30°℞♊	
min. Earth dist.	9719 Jun	19	01:02	28°♊18'58	0.63637 AU
morning rise	9719 Jun	22	14:32	24°♊55'55	

desc. node	9719 Jun 28 14:03	22°♊20'27	
direct	9719 Jun 29 07:43	22°♊18'40	
	9719 Jul 12 20:13	0°♋	
morning max el	9719 Jul 13 04:49	0°♋21'30	27°42'37
	9719 Aug 03 22:48	0°♌	
morning set	9719 Aug 16 23:48	23°♌46'12	
	9719 Aug 20 01:23	0°♍	
asc. node	9719 Aug 21 09:31	2°♍47'21	
max. Earth dist.	9719 Aug 21 23:26	4°♍00'35	1.32636 AU
superior conj	9719 Aug 24 21:01	10°♍12'12	0°34'15
minimum elong	9719 Aug 24 19:28	10°♍03'51	0°33'46
evening rise	9719 Aug 31 20:01	25°♍16'04	
	9719 Sep 03 01:53	0°♎	
	9719 Sep 21 08:52	0°♏	
evening max el	9719 Sep 23 16:10	2°♏24'28	23°09'32
desc. node	9719 Sep 24 12:24	3°♏12'09	
retrograde	9719 Oct 07 01:01	9°♏04'31	
evening set	9719 Oct 11 01:42	8°♏29'08	
min. Earth dist.	9719 Oct 18 01:29	5°♏15'44	0.55325 AU
inferior conj	9719 Oct 19 15:36	4°♏20'22	-5°39'11
minimum elong	9719 Oct 19 12:53	4°♏24'19	5°38'51
morning rise	9719 Oct 28 01:58	0°♏29'48	
direct	9719 Oct 31 01:46	0°♏08'31	
morning max el	9719 Nov 11 01:18	5°♏18'47	20°37'44
asc. node	9719 Nov 17 09:39	12°♏54'57	
	9719 Nov 27 03:36	0°♐	
morning set	9719 Nov 30 00:55	5°♐51'46	
superior conj	9719 Dec 07 12:13	21°♐19'07	1°31'05
minimum elong	9719 Dec 07 14:17	21°♐29'36	1°31'16
	9719 Dec 11 20:28	0°♑	
max. Earth dist.	9719 Dec 12 15:43	1°♑33'35	1.36075 AU
evening rise	9719 Dec 16 13:38	8°♑57'30	
desc. node	9719 Dec 21 10:56	17°♑41'56	
	9719 Dec 28 21:38	0°♒	
	9720 Jan 20 15:23	0°♓	
evening max el	9720 Jan 21 02:13	0°♓26'35	26°08'17
retrograde	9720 Feb 02 19:11	7°♓39'47	
evening set	9720 Feb 08 23:32	5°♓09'14	
min. Earth dist.	9720 Feb 13 04:37	0°♓42'55	0.66899 AU
asc. node	9720 Feb 13 08:43	0°♓30'24	
	9720 Feb 13 18:35	30°℞♒	
inferior conj	9720 Feb 14 19:13	28°♒43'32	0°28'13
minimum elong	9720 Feb 14 18:29	28°♒45'48	0°28'09
morning rise	9720 Feb 20 14:08	22°♒56'24	
direct	9720 Feb 23 17:52	21°♒59'47	
morning max el	9720 Mar 01 09:46	25°♒36'06	18°41'37
	9720 Mar 05 05:48	0°♓	
desc. node	9720 Mar 18 11:00	19°♓32'26	
morning set	9720 Mar 22 19:54	26°♓23'09	
	9720 Mar 25 03:14	0°♈	
max. Earth dist.	9720 Apr 07 04:17	20°♈24'44	1.45508 AU
superior conj	9720 Apr 08 02:45	21°♈52'42	-1°58'51
minimum elong	9720 Apr 07 18:44	21°♈21'18	1°58'26
	9720 Apr 13 06:51	0°♉	
evening rise	9720 Apr 23 13:03	16°♉18'03	
greatest brilliancy	9720 Apr 30 22:59	28°♉10'10	-0.9m
	9720 May 02 02:42	0°♊	
asc. node	9720 May 11 07:05	13°♊33'24	
evening max el	9720 May 14 16:27	17°♊28'53	18°41'45
retrograde	9720 May 21 06:37	21°♊05'34	
evening set	9720 May 24 12:53	20°♊04'54	
inferior conj	9720 May 30 04:02	14°♊27'10	3°15'13
minimum elong	9720 May 30 05:02	14°♊24'04	3°14'48
min. Earth dist.	9720 Jun 01 02:14	12°♊05'29	0.65488 AU

morning rise	9720 Jun 04 20:26	8°♊08'05	
direct	9720 Jun 11 08:34	5°♊22'59	
desc. node	9720 Jun 14 11:04	5°♊55'22	
morning max el	9720 Jun 24 15:16	13°♊14'29	26°56'07
	9720 Jul 08 03:21	0°♋	
	9720 Jul 26 14:27	0°♌	
morning set	9720 Jul 30 08:43	7°♌02'32	
max. Earth dist.	9720 Aug 03 15:36	15°♌28'15	1.33939 AU
asc. node	9720 Aug 07 06:26	22°♌53'23	
superior conj	9720 Aug 07 22:20	24°♌16'28	0°06'36
minimum elong	9720 Aug 07 22:00	24°♌14'43	0°06'17
behind sun begin	9720 Aug 07 16:44	23°♌47'10	
behind sun end	9720 Aug 08 03:16	24°♌42'19	
	9720 Aug 10 15:28	0°♍	
evening rise	9720 Aug 15 06:22	9°♍47'48	
	9720 Aug 25 19:03	0°♎	
evening max el	9720 Sep 04 07:49	12°♎40'44	21°32'37
desc. node	9720 Sep 10 09:36	17°♎13'05	
retrograde	9720 Sep 16 14:25	18°♎46'17	
evening set	9720 Sep 19 06:24	18°♎30'06	
inferior conj	9720 Sep 28 09:21	14°♎33'07	-4°52'08
minimum elong	9720 Sep 28 00:14	14°♎45'52	4°50'04
min. Earth dist.	9720 Sep 28 09:16	14°♎33'14	0.54664 AU
morning rise	9720 Oct 06 19:00	10°♎43'27	
direct	9720 Oct 10 11:17	10°♎14'04	
morning max el	9720 Oct 22 22:11	16°♎08'52	22°13'14
	9720 Nov 02 15:16	0°♏	
asc. node	9720 Nov 03 06:35	1°♏03'17	
morning set	9720 Nov 13 11:20	20°♏39'06	
	9720 Nov 17 20:41	0°♐	
superior conj	9720 Nov 20 13:25	5°♐44'29	1°38'57
minimum elong	9720 Nov 20 14:14	5°♐48'51	1°39'14
max. Earth dist.	9720 Nov 24 06:13	13°♐27'00	1.34293 AU
evening rise	9720 Nov 28 17:01	22°♐19'06	
	9720 Dec 02 18:58	0°♑	
desc. node	9720 Dec 07 07:58	8°♑01'59	
	9720 Dec 21 15:45	0°♒	
evening max el	9721 Jan 02 15:44	14°♒06'29	26°59'50
retrograde	9721 Jan 15 22:39	21°♒27'20	
evening set	9721 Jan 22 13:46	18°♒52'52	
min. Earth dist.	9721 Jan 26 13:14	15°♒00'35	0.65579 AU
inferior conj	9721 Jan 28 15:32	12°♒37'03	-0°31'53
minimum elong	9721 Jan 28 16:26	12°♒34'26	0°31'12
asc. node	9721 Jan 30 05:51	10°♒49'56	
morning rise	9721 Feb 03 20:22	7°♒01'46	
direct	9721 Feb 06 14:37	6°♒20'26	
morning max el	9721 Feb 13 00:31	9°♒44'06	18°06'58
	9721 Feb 27 05:02	0°♓	
morning set	9721 Mar 03 13:14	7°♓03'30	
desc. node	9721 Mar 05 07:50	9°♓56'35	
	9721 Mar 17 20:40	0°♈	
superior conj	9721 Mar 18 09:46	0°♈51'35	-1°26'40
minimum elong	9721 Mar 18 00:37	0°♈15'33	1°25'38
max. Earth dist.	9721 Mar 21 00:17	4°♈57'06	1.45527 AU
evening rise	9721 Apr 03 13:03	26°♈00'31	
	9721 Apr 06 02:55	0°♉	
greatest brilliancy	9721 Apr 16 03:41	15°♉21'49	-0.7m
	9721 Apr 26 22:34	0°♊	
evening max el	9721 Apr 28 00:15	1°♊07'50	19°26'08
asc. node	9721 Apr 28 04:13	1°♊17'48	
retrograde	9721 May 05 03:43	5°♊10'33	
evening set	9721 May 08 18:19	3°♊54'33	
	9721 May 12 15:23	30°℞♉	
inferior conj	9721 May 14 04:07	28°♉01'44	3°19'38

minimum elong	9721 May 14	03:55	28°♉02'25	3°19'20
min. Earth dist.	9721 May 15	11:13	26°♉19'42	0.66932 AU
morning rise	9721 May 19	13:09	21°♉42'13	
direct	9721 May 25	15:41	19°♉00'36	
desc. node	9721 Jun 01	08:04	21°♉29'58	
morning max el	9721 Jun 07	01:27	26°♉25'59	25°45'18
	9721 Jun 10	08:33	0°♊	
	9721 Jul 01	17:33	0°♋	
morning set	9721 Jul 13	03:34	19°♋36'34	
max. Earth dist.	9721 Jul 16	21:19	26°♋35'42	1.35710 AU
	9721 Jul 18	15:48	0°♌	
superior conj	9721 Jul 22	15:24	7°♌53'00	-0°24'26
minimum elong	9721 Jul 22	16:52	8°♌00'26	0°24'26
asc. node	9721 Jul 25	03:22	12°♌57'32	
evening rise	9721 Jul 30	13:24	24°♌06'31	
	9721 Aug 02	11:17	0°♍	
evening max el	9721 Aug 17	11:21	23°♍30'58	20°10'35
retrograde	9721 Aug 28	03:28	28°♍48'27	
desc. node	9721 Aug 28	06:46	28°♍48'24	
evening set	9721 Aug 30	02:13	28°♍38'39	
inferior conj	9721 Sep 08	03:48	24°♍40'04	-3°16'05
minimum elong	9721 Sep 07	19:12	24°♍52'49	3°13'12
min. Earth dist.	9721 Sep 09	18:35	23°♍42'35	0.54933 AU
morning rise	9721 Sep 16	11:10	20°♍30'47	
direct	9721 Sep 20	21:37	19°♍48'17	
morning max el	9721 Oct 04	11:03	26°♍25'40	23°59'46
	9721 Oct 07	21:22	0°♎	
asc. node	9721 Oct 21	03:29	19°♎50'43	
	9721 Oct 26	08:24	0°♏	
morning set	9721 Oct 28	23:05	5°♏28'11	
superior conj	9721 Nov 04	20:21	20°♏24'59	1°40'07
minimum elong	9721 Nov 04	19:58	20°♏22'56	1°40'23
max. Earth dist.	9721 Nov 07	05:00	25°♏30'32	1.32919 AU
	9721 Nov 09	07:54	0°♐	
evening rise	9721 Nov 12	08:10	6°♐11'35	
desc. node	9721 Nov 24	05:02	28°♐03'45	
	9721 Nov 25	09:11	0°♑	
evening max el	9721 Dec 16	04:10	27°♑26'54	27°27'21
	9721 Dec 19	01:38	0°♒	
retrograde	9721 Dec 29	19:35	4°♒47'24	
evening set	9722 Jan 05	18:30	2°♒15'37	
	9722 Jan 08	10:52	30°℞♑	
min. Earth dist.	9722 Jan 09	13:22	28°♑55'23	0.63924 AU
inferior conj	9722 Jan 12	03:04	26°♑16'03	-1°39'24
minimum elong	9722 Jan 12	06:13	26°♑07'55	1°37'46
asc. node	9722 Jan 17	02:57	21°♑49'19	
morning rise	9722 Jan 18	19:48	20°♑55'35	
direct	9722 Jan 21	06:27	20°♑25'52	
morning max el	9722 Jan 27	17:56	23°♑47'22	17°49'27
	9722 Feb 01	18:16	0°♒	
morning set	9722 Feb 13	10:25	19°♒05'27	
	9722 Feb 19	21:12	0°♓	
desc. node	9722 Feb 20	04:41	0°♓31'15	
superior conj	9722 Feb 26	08:28	10°♓39'31	-0°44'27
minimum elong	9722 Feb 26	03:35	10°♓19'44	0°43'36
max. Earth dist.	9722 Mar 03	19:39	19°♓25'30	1.44808 AU
	9722 Mar 10	13:39	0°♈	
evening rise	9722 Mar 14	01:08	5°♈21'45	
	9722 Mar 30	12:56	0°♉	
evening max el	9722 Apr 11	02:40	14°♉48'46	20°25'32
asc. node	9722 Apr 15	01:21	18°♉06'49	
retrograde	9722 Apr 19	02:23	19°♉27'28	
evening set	9722 Apr 23	02:06	17°♉55'57	
inferior conj	9722 Apr 28	09:23	11°♉49'48	3°11'23
minimum elong	9722 Apr 28	08:10	11°♉53'58	3°11'00
min. Earth dist.	9722 Apr 29	02:17	10°♉51'55	0.67923 AU
morning rise	9722 May 03	14:01	5°♉32'31	
direct	9722 May 09	04:14	3°♉03'17	
desc. node	9722 May 19	05:01	8°♉35'04	
morning max el	9722 May 20	10:57	9°♉48'29	24°19'55
	9722 Jun 05	10:08	0°♊	
	9722 Jun 24	09:57	0°♋	
morning set	9722 Jun 25	03:37	1°♋16'31	
max. Earth dist.	9722 Jun 28	19:29	7°♋45'03	1.37840 AU
superior conj	9722 Jul 05	20:54	20°♋53'48	-0°57'11
minimum elong	9722 Jul 06	00:36	21°♋11'34	0°56'53
	9722 Jul 10	12:47	0°♌	
asc. node	9722 Jul 12	00:18	2°♌56'01	
evening rise	9722 Jul 14	14:38	8°♌05'35	
	9722 Jul 26	22:19	0°♍	
evening max el	9722 Jul 31	04:16	5°♍06'47	19°08'50
retrograde	9722 Aug 09	04:37	9°♍35'26	
evening set	9722 Aug 11	01:26	9°♍24'42	
desc. node	9722 Aug 15	03:58	7°♍54'24	
inferior conj	9722 Aug 19	12:32	5°♍12'35	-1°20'57
minimum elong	9722 Aug 19	08:59	5°♍18'36	1°19'45
min. Earth dist.	9722 Aug 22	07:47	3°♍19'10	0.56108 AU
morning rise	9722 Aug 27	13:33	0°♍28'02	
	9722 Aug 28	21:38	30°℞♌	
direct	9722 Sep 01	19:26	29°♌24'14	
	9722 Sep 05	17:24	0°♍	
morning max el	9722 Sep 15	23:31	6°♍37'32	25°41'34
	9722 Oct 03	02:19	0°♎	
asc. node	9722 Oct 08	00:23	9°♎06'31	
morning set	9722 Oct 13	10:25	20°♎13'00	
	9722 Oct 17	22:09	0°♏	
superior conj	9722 Oct 20	06:39	5°♏12'26	1°35'13
minimum elong	9722 Oct 20	05:17	5°♏04'54	1°35'20
max. Earth dist.	9722 Oct 21	10:22	7°♏45'16	1.32000 AU
evening rise	9722 Oct 27	07:53	20°♏25'40	
	9722 Nov 01	02:18	0°♐	
desc. node	9722 Nov 11	02:07	17°♐38'39	
	9722 Nov 19	13:30	0°♑	
evening max el	9722 Nov 28	13:14	10°♑13'51	27°24'51
retrograde	9722 Dec 12	09:23	17°♑29'39	
evening set	9722 Dec 19	10:42	15°♑09'33	
min. Earth dist.	9722 Dec 23	03:24	12°♑15'52	0.61989 AU
inferior conj	9722 Dec 26	02:46	9°♑32'01	-2°52'04
minimum elong	9722 Dec 26	08:26	9°♑19'00	2°49'36
morning rise	9723 Jan 02	08:34	4°♑29'33	
asc. node	9723 Jan 04	00:01	4°♑09'18	
direct	9723 Jan 04	14:03	4°♑07'47	
morning max el	9723 Jan 11	10:45	7°♑36'41	17°49'41
	9723 Jan 26	00:33	0°♒	
morning set	9723 Jan 27	05:18	2°♒08'37	
superior conj	9723 Feb 07	07:41	21°♒38'01	-0°01'57
minimum elong	9723 Feb 07	07:32	21°♒37'22	0°01'40
behind sun begin	9723 Feb 06	22:53	21°♒00'32	
behind sun end	9723 Feb 07	16:11	22°♒14'07	
desc. node	9723 Feb 07	01:31	21°♒11'45	
	9723 Feb 12	07:41	0°♓	
max. Earth dist.	9723 Feb 14	11:16	3°♓30'43	1.43434 AU
evening rise	9723 Feb 21	16:17	14°♓58'15	
	9723 Mar 03	13:37	0°♈	
evening max el	9723 Mar 24	23:31	28°♈30'41	21°36'58
	9723 Mar 26	12:42	0°♉	
asc. node	9723 Apr 01	22:31	3°♉45'17	
retrograde	9723 Apr 03	00:36	3°♉51'11	

evening set	9723 Apr 07 10:27	2°♉04'24	
	9723 Apr 09 12:29	30°℞♈	
inferior conj	9723 Apr 12 17:31	25°♈47'20	2°52'20
minimum elong	9723 Apr 12 15:37	25°♈53'58	2°51'49
min. Earth dist.	9723 Apr 12 21:21	25°♈33'57	0.68454 AU
morning rise	9723 Apr 17 20:36	19°♈34'00	
direct	9723 Apr 22 21:20	17°♈23'06	
morning max el	9723 May 02 21:16	23°♈18'16	22°50'02
desc. node	9723 May 06 01:55	26°♈45'59	
	9723 May 08 18:39	0°♉	
	9723 May 29 18:54	0°♊	
morning set	9723 Jun 06 03:39	11°♊49'32	
max. Earth dist.	9723 Jun 10 16:17	19°♊25'55	1.40115 AU
	9723 Jun 16 16:54	0°♋	
superior conj	9723 Jun 18 10:51	3°♋09'47	-1°28'57
minimum elong	9723 Jun 18 16:33	3°♋35'42	1°28'34
evening rise	9723 Jun 28 06:59	21°♋37'06	
asc. node	9723 Jun 28 21:17	22°♋45'06	
	9723 Jul 02 17:58	0°♌	
evening max el	9723 Jul 14 07:57	17°♌25'26	18°28'10
retrograde	9723 Jul 22 00:13	21°♌15'54	
evening set	9723 Jul 24 02:49	20°♌59'22	
inferior conj	9723 Jul 31 18:29	16°♌27'51	0°23'06
minimum elong	9723 Jul 31 19:19	16°♌26'13	0°22'30
desc. node	9723 Aug 02 01:08	15°♌26'44	
min. Earth dist.	9723 Aug 04 02:37	13°♌50'09	0.57972 AU
morning rise	9723 Aug 08 08:16	11°♌06'35	
direct	9723 Aug 14 08:12	9°♌33'53	
morning max el	9723 Aug 28 17:06	17°♌13'03	27°01'24
	9723 Sep 08 06:58	0°♍	
asc. node	9723 Sep 24 21:16	28°♍43'03	
	9723 Sep 25 12:21	0°♎	
morning set	9723 Sep 27 19:43	4°♎48'50	
superior conj	9723 Oct 04 18:23	20°♎00'48	1°24'44
minimum elong	9723 Oct 04 16:22	19°♎49'36	1°24'37
max. Earth dist.	9723 Oct 04 19:25	20°♎06'31	1.31558 AU
	9723 Oct 09 06:54	0°♏	
evening rise	9723 Oct 11 13:38	4°♏54'29	
	9723 Oct 24 18:42	0°♐	
desc. node	9723 Oct 28 23:16	6°♐35'54	
evening max el	9723 Nov 10 16:36	22°♐16'19	26°48'37
retrograde	9723 Nov 24 14:53	29°♐25'10	
evening set	9723 Dec 01 10:23	27°♐27'12	
min. Earth dist.	9723 Dec 05 06:53	24°♐49'41	0.59892 AU
inferior conj	9723 Dec 08 11:13	22°♐16'11	-4°04'33
minimum elong	9723 Dec 08 18:46	22°♐00'58	4°01'55
morning rise	9723 Dec 16 05:44	17°♐34'27	
direct	9723 Dec 18 09:26	17°♐17'07	
asc. node	9723 Dec 21 21:05	18°♐04'48	
morning max el	9723 Dec 25 23:31	21°♐02'39	18°08'57
	9724 Jan 01 18:06	0°♑	
morning set	9724 Jan 10 15:47	15°♑55'02	
	9724 Jan 18 05:26	0°♒	
superior conj	9724 Jan 20 07:06	3°♒44'47	0°34'46
minimum elong	9724 Jan 20 09:38	3°♒56'06	0°34'43
desc. node	9724 Jan 24 22:23	11°♒54'49	
max. Earth dist.	9724 Jan 27 22:08	17°♒00'42	1.41569 AU
evening rise	9724 Feb 01 23:25	25°♒20'45	
	9724 Feb 04 21:20	0°♓	
	9724 Feb 25 09:43	0°♈	
evening max el	9724 Mar 06 16:03	12°♈14'53	22°55'44
retrograde	9724 Mar 16 20:37	18°♈16'43	
asc. node	9724 Mar 18 19:42	17°♈57'53	
evening set	9724 Mar 21 17:44	16°♈15'18	
inferior conj	9724 Mar 27 02:30	9°♈50'24	2°23'35
minimum elong	9724 Mar 27 00:18	9°♈58'03	2°22'57
min. Earth dist.	9724 Mar 26 18:06	10°♈19'30	0.68551 AU
morning rise	9724 Apr 01 06:45	3°♈42'27	
direct	9724 Apr 05 17:52	1°♈52'56	
morning max el	9724 Apr 14 11:36	6°♈56'38	21°24'24
desc. node	9724 Apr 21 22:47	15°♈44'08	
	9724 May 02 03:37	0°♉	
morning set	9724 May 16 00:40	21°♉08'21	
	9724 May 21 13:05	0°♊	
max. Earth dist.	9724 May 22 18:01	1°♊58'28	1.42263 AU
superior conj	9724 May 30 04:35	14°♊29'57	-1°55'33
minimum elong	9724 May 30 10:36	14°♊55'56	1°55'26
	9724 Jun 07 22:44	0°♋	
evening rise	9724 Jun 10 10:22	4°♋30'18	
asc. node	9724 Jun 14 18:18	12°♋19'33	
	9724 Jun 26 11:42	0°♌	
evening max el	9724 Jun 26 18:25	0°♌16'51	18°07'42
retrograde	9724 Jul 03 13:49	3°♌44'28	
evening set	9724 Jul 06 00:15	3°♌18'18	
	9724 Jul 11 03:46	30°℞♋	
inferior conj	9724 Jul 12 21:32	28°♋26'17	1°42'09
minimum elong	9724 Jul 13 00:15	28°♋20'00	1°40'57
min. Earth dist.	9724 Jul 16 04:32	25°♋25'28	0.60191 AU
desc. node	9724 Jul 18 22:17	23°♋14'45	
morning rise	9724 Jul 19 21:22	22°♋36'33	
direct	9724 Jul 26 09:49	20°♋33'46	
morning max el	9724 Aug 09 17:32	28°♋28'45	27°47'19
	9724 Aug 11 05:12	0°♌	
	9724 Sep 01 03:07	0°♍	
asc. node	9724 Sep 10 18:09	18°♍33'54	
morning set	9724 Sep 11 01:11	19°♍10'31	
	9724 Sep 16 02:14	0°♎	
max. Earth dist.	9724 Sep 17 04:39	2°♎25'31	1.31597 AU
superior conj	9724 Sep 18 05:43	4°♎44'08	1°08'59
minimum elong	9724 Sep 18 03:28	4°♎31'42	1°08'38
evening rise	9724 Sep 24 23:12	19°♎31'34	
	9724 Sep 30 00:45	0°♏	
desc. node	9724 Oct 14 20:28	24°♏40'43	
	9724 Oct 19 04:10	0°♐	
evening max el	9724 Oct 22 12:13	3°♐27'50	25°39'46
retrograde	9724 Nov 05 09:58	10°♐28'57	
evening set	9724 Nov 11 12:46	9°♐02'05	
min. Earth dist.	9724 Nov 16 00:40	6°♐25'15	0.57830 AU
inferior conj	9724 Nov 19 01:01	4°♐19'01	-5°06'24
minimum elong	9724 Nov 19 08:00	4°♐06'47	5°04'45
morning rise	9724 Nov 27 05:33	29°♏59'44	
	9724 Nov 27 05:05	30°℞♏	
direct	9724 Nov 29 12:31	29°♏43'25	
	9724 Dec 01 18:30	0°♐	
asc. node	9724 Dec 07 18:06	3°♐30'17	
morning max el	9724 Dec 08 04:27	3°♐54'39	18°49'08
	9724 Dec 24 10:51	0°♑	
morning set	9724 Dec 24 13:04	0°♑10'50	
superior conj	9725 Jan 02 02:21	16°♑47'28	1°03'14
minimum elong	9725 Jan 02 05:33	17°♑02'40	1°03'10
max. Earth dist.	9725 Jan 09 05:21	29°♑50'41	1.39424 AU
	9725 Jan 09 07:28	0°♒	
desc. node	9725 Jan 10 19:20	2°♒37'10	
evening rise	9725 Jan 13 04:03	6°♒40'49	
	9725 Jan 27 22:08	0°♓	
evening max el	9725 Feb 17 06:11	26°♓03'00	24°15'49
	9725 Feb 21 19:43	0°♈	
retrograde	9725 Feb 28 13:12	2°♈40'09	

evening set	9725 Mar 05 22:27	0°♈25'15	
asc. node	9725 Mar 05 16:53	0°♈36'51	
	9725 Mar 06 09:49	30℞♓	
min. Earth dist.	9725 Mar 10 14:18	25°♓04'25	0.68229 AU
inferior conj	9725 Mar 11 10:30	23°♓56'22	1°45'45
minimum elong	9725 Mar 11 08:27	24°♓03'18	1°45'08
morning rise	9725 Mar 16 18:30	17°♓55'17	
direct	9725 Mar 20 16:35	16°♓27'42	
morning max el	9725 Mar 28 09:05	20°♓47'31	20°09'34
	9725 Apr 05 00:36	0°♈	
desc. node	9725 Apr 08 19:38	5°♈17'04	
morning set	9725 Apr 25 01:44	29°♈36'41	
	9725 Apr 25 07:46	0°♉	
max. Earth dist.	9725 May 05 03:24	15°♉24'47	1.44017 AU
superior conj	9725 May 10 22:22	24°♉47'15	-2°11'06
minimum elong	9725 May 11 01:01	24°♉58'09	2°11'19
	9725 May 14 02:04	0°♊	
evening rise	9725 May 23 20:09	16°♊34'54	
	9725 May 31 16:32	0°♋	
asc. node	9725 Jun 01 15:23	1°♋33'54	
evening max el	9725 Jun 10 07:52	13°♋31'12	18°06'27
retrograde	9725 Jun 16 17:39	16°♋51'30	
evening set	9725 Jun 19 11:49	16°♋13'07	
inferior conj	9725 Jun 25 18:16	11°♋01'45	2°35'06
minimum elong	9725 Jun 25 20:57	10°♋54'40	2°34'07
min. Earth dist.	9725 Jun 28 15:12	8°♋01'26	0.62439 AU
morning rise	9725 Jul 02 04:13	4°♋53'57	
desc. node	9725 Jul 05 19:23	2°♋57'24	
direct	9725 Jul 08 21:41	2°♋26'47	
morning max el	9725 Jul 22 23:56	10°♋28'50	27°54'55
	9725 Aug 07 06:23	0°♌	
	9725 Aug 24 10:26	0°♍	
morning set	9725 Aug 26 00:47	3°♍12'40	
asc. node	9725 Aug 28 15:03	8°♍34'10	
max. Earth dist.	9725 Aug 31 10:18	14°♍31'59	1.32120 AU
superior conj	9725 Sep 02 14:47	19°♍16'59	0°48'17
minimum elong	9725 Sep 02 12:49	19°♍06'14	0°47'48
	9725 Sep 07 12:08	0°♎	
evening rise	9725 Sep 09 10:34	4°♎11'13	
	9725 Sep 23 02:33	0°♏	
desc. node	9725 Oct 01 17:40	11°♏32'42	
evening max el	9725 Oct 04 00:37	13°♏54'19	24°07'10
retrograde	9725 Oct 17 16:44	20°♏45'01	
evening set	9725 Oct 22 14:30	19°♏52'12	
min. Earth dist.	9725 Oct 28 11:17	16°♏57'27	0.56075 AU
inferior conj	9725 Oct 30 18:20	15°♏33'11	-5°40'22
minimum elong	9725 Oct 30 20:14	15°♏30'15	5°40'03
morning rise	9725 Nov 08 04:01	11°♏34'51	
direct	9725 Nov 10 20:19	11°♏16'14	
morning max el	9725 Nov 20 21:55	16°♏02'08	19°51'44
asc. node	9725 Nov 24 15:06	20°♏11'04	
	9725 Dec 01 01:09	0°♐	
morning set	9725 Dec 08 17:27	14°♐44'37	
	9725 Dec 16 06:04	0°♑	
superior conj	9725 Dec 16 12:23	0°♑31'22	1°23'13
minimum elong	9725 Dec 16 15:02	0°♑44'36	1°23'18
max. Earth dist.	9725 Dec 22 11:44	12°♑03'53	1.37244 AU
evening rise	9725 Dec 26 05:24	18°♑54'24	
desc. node	9725 Dec 28 16:18	23°♑14'18	
	9726 Jan 01 15:50	0°♒	
	9726 Jan 22 02:46	0°♓	
evening max el	9726 Jan 30 19:27	9°♓52'01	25°30'31
retrograde	9726 Feb 12 01:18	16°♓55'07	
evening set	9726 Feb 17 22:58	14°♓29'01	
asc. node	9726 Feb 20 14:03	11°♓50'04	
min. Earth dist.	9726 Feb 22 07:39	9°♓43'08	0.67500 AU
inferior conj	9726 Feb 23 15:35	8°♓00'43	0°59'04
minimum elong	9726 Feb 23 14:12	8°♓05'10	0°58'42
morning rise	9726 Mar 01 05:51	2°♓08'09	
direct	9726 Mar 04 15:54	1°♓01'04	
morning max el	9726 Mar 11 14:29	4°♓49'22	19°09'10
greatest brilliancy	9726 Mar 24 19:07	22°♓23'36	-0.7m
desc. node	9726 Mar 26 16:27	25°♓14'57	
	9726 Mar 29 19:05	0°♈	
morning set	9726 Apr 04 03:42	8°♈15'45	
max. Earth dist.	9726 Apr 17 18:58	29°♈30'12	1.45169 AU
	9726 Apr 18 02:32	0°♉	
superior conj	9726 Apr 20 16:58	4°♉06'18	-2°09'14
minimum elong	9726 Apr 20 12:34	3°♉48'54	2°09'16
evening rise	9726 May 05 07:49	27°♉41'46	
	9726 May 06 17:27	0°♊	
asc. node	9726 May 19 12:28	20°♊20'51	
evening max el	9726 May 24 21:00	26°♊59'49	18°23'41
	9726 May 29 01:32	0°♋	
retrograde	9726 May 31 07:06	0°♋27'03	
	9726 Jun 02 12:02	30℞♊	
evening set	9726 Jun 03 08:51	29°♊34'48	
inferior conj	9726 Jun 09 04:29	24°♊06'03	3°05'51
minimum elong	9726 Jun 09 06:12	24°♊01'01	3°05'15
min. Earth dist.	9726 Jun 11 11:19	21°♊26'04	0.64471 AU
morning rise	9726 Jun 15 02:29	17°♊49'00	
direct	9726 Jun 21 18:00	15°♊07'20	
desc. node	9726 Jun 22 16:26	15°♊10'14	
morning max el	9726 Jul 05 09:55	23°♊06'44	27°26'26
	9726 Jul 11 12:27	0°♋	
	9726 Jul 31 13:39	0°♌	
morning set	9726 Aug 09 16:00	16°♌48'42	
max. Earth dist.	9726 Aug 14 08:32	26°♌16'39	1.33132 AU
asc. node	9726 Aug 15 11:57	28°♌39'32	
	9726 Aug 16 03:16	0°♍	
superior conj	9726 Aug 17 19:35	3°♍33'45	0°22'59
minimum elong	9726 Aug 17 18:28	3°♍27'49	0°22'34
evening rise	9726 Aug 24 21:53	18°♍47'53	
	9726 Aug 30 09:14	0°♎	
evening max el	9726 Sep 15 12:13	24°♎03'25	22°27'03
desc. node	9726 Sep 18 14:52	26°♎45'28	
	9726 Sep 24 19:07	0°♏	
retrograde	9726 Sep 28 11:47	0°♏31'41	
evening set	9726 Oct 01 21:29	0°♏06'07	
	9726 Oct 02 07:00	30℞♎	
min. Earth dist.	9726 Oct 09 19:00	26°♎36'02	0.54931 AU
inferior conj	9726 Oct 10 18:06	26°♎03'22	-5°26'20
minimum elong	9726 Oct 10 12:04	26°♎11'54	5°25'26
morning rise	9726 Oct 19 04:25	22°♎15'59	
direct	9726 Oct 22 10:50	21°♎51'53	
morning max el	9726 Nov 03 02:07	27°♎20'24	21°16'24
	9726 Nov 05 15:46	0°♏	
asc. node	9726 Nov 11 12:03	7°♏51'51	
morning set	9726 Nov 23 02:17	29°♏29'01	
	9726 Nov 23 08:13	0°♐	
superior conj	9726 Nov 30 09:03	14°♐44'57	1°35'16
minimum elong	9726 Nov 30 10:36	14°♐52'58	1°35'32
max. Earth dist.	9726 Dec 04 21:55	23°♐57'48	1.35265 AU
	9726 Dec 08 00:20	0°♑	
evening rise	9726 Dec 09 00:22	1°♑54'00	
desc. node	9726 Dec 15 13:20	13°♑42'10	
	9726 Dec 25 16:12	0°♒	
evening max el	9727 Jan 13 08:44	23°♒36'58	26°32'37

	9727 Jan	22	04:11	0°♓	
retrograde	9727 Jan	26	08:16	0°♓55'02	
	9727 Jan	30	05:06	30°℞♒	
evening set	9727 Feb	01	17:33	28°♒21'45	
min. Earth dist.	9727 Feb	05	20:01	24°♒10'20	0.66383 AU
asc. node	9727 Feb	07	11:11	22°♒13'07	
inferior conj	9727 Feb	07	15:43	21°♒59'28	0°03'45
minimum elong	9727 Feb	07	15:36	21°♒59'48	0°03'57
transit middle	9727 Feb	07	15:36	21°♒59'48	0°03'57
transit begin	9727 Feb	07	12:47	22°♒08'16	
transit end	9727 Feb	07	18:26	21°♒51'21	
morning rise	9727 Feb	13	14:37	16°♒17'21	
direct	9727 Feb	16	14:04	15°♒27'47	
morning max el	9727 Feb	23	02:33	18°♒57'19	18°24'51
	9727 Mar	03	15:01	0°♓	
desc. node	9727 Mar	13	13:17	15°♓31'04	
morning set	9727 Mar	15	03:57	18°♓04'50	
	9727 Mar	22	16:32	0°♈	
superior conj	9727 Mar	30	23:00	12°♈58'41	-1°47'05
minimum elong	9727 Mar	30	13:36	12°♈21'56	1°46'20
max. Earth dist.	9727 Mar	31	13:47	13°♈56'30	1.45607 AU
	9727 Apr	10	19:59	0°♉	
evening rise	9727 Apr	15	19:43	7°♉50'55	
greatest brilliancy	9727 Apr	25	16:00	23°♉18'24	-0.8m
	9727 Apr	30	01:58	0°♊	
asc. node	9727 May	06	09:34	8°♊31'27	
evening max el	9727 May	08	07:15	10°♊36'23	18°58'35
retrograde	9727 May	15	02:20	14°♊23'10	
evening set	9727 May	18	11:57	13°♊16'09	
inferior conj	9727 May	24	00:27	7°♊31'42	3°18'49
minimum elong	9727 May	24	00:55	7°♊30'11	3°18'28
min. Earth dist.	9727 May	25	16:09	5°♊25'51	0.66153 AU
morning rise	9727 May	29	13:19	1°♊11'41	
	9727 May	31	02:29	30°℞♉	
direct	9727 Jun	04	21:42	28°♉26'48	
desc. node	9727 Jun	09	13:26	29°♉39'42	
	9727 Jun	10	05:01	0°♊	
morning max el	9727 Jun	17	20:39	6°♊09'54	26°28'24
	9727 Jul	06	05:02	0°♋	
morning set	9727 Jul	23	19:27	29°♋48'49	
	9727 Jul	23	21:50	0°♌	
max. Earth dist.	9727 Jul	27	20:11	7°♌34'17	1.34636 AU
superior conj	9727 Aug	01	17:42	17°♌27'04	-0°06'16
minimum elong	9727 Aug	01	18:04	17°♌28'56	0°06'27
behind sun begin	9727 Aug	01	12:39	17°♌01'01	
behind sun end	9727 Aug	01	23:30	17°♌56'55	
asc. node	9727 Aug	02	08:51	18°♌45'15	
	9727 Aug	07	17:48	0°♍	
evening rise	9727 Aug	09	07:05	3°♍14'49	
	9727 Aug	24	09:38	0°♎	
evening max el	9727 Aug	28	08:16	4°♎31'18	20°55'26
desc. node	9727 Sep	05	12:04	9°♎47'14	
retrograde	9727 Sep	08	23:54	10°♎17'53	
evening set	9727 Sep	11	05:59	10°♎05'47	
inferior conj	9727 Sep	20	10:20	6°♎09'46	-4°15'59
minimum elong	9727 Sep	20	00:32	6°♎23'40	4°13'13
min. Earth dist.	9727 Sep	21	03:26	5°♎45'27	0.54655 AU
morning rise	9727 Sep	28	19:15	2°♎13'56	
direct	9727 Oct	02	18:46	1°♎39'55	
morning max el	9727 Oct	15	18:53	7°♎54'05	22°58'02
asc. node	9727 Oct	29	08:59	26°♎18'01	
	9727 Oct	31	10:15	0°♏	
morning set	9727 Nov	07	13:26	14°♏17'20	
superior conj	9727 Nov	14	12:59	29°♏17'39	1°40'13
minimum elong	9727 Nov	14	13:17	29°♏19'15	1°40'31
	9727 Nov	14	20:54	0°♐	
max. Earth dist.	9727 Nov	17	15:34	5°♐52'29	1.33649 AU
evening rise	9727 Nov	22	09:08	15°♐29'35	
	9727 Nov	30	03:54	0°♑	
desc. node	9727 Dec	02	10:23	3°♑55'05	
	9727 Dec	20	07:50	0°♒	
evening max el	9727 Dec	26	21:48	7°♒09'16	27°14'54
retrograde	9728 Jan	09	09:16	14°♒31'46	
evening set	9728 Jan	16	04:04	11°♒57'22	
min. Earth dist.	9728 Jan	20	01:19	8°♒19'04	0.64905 AU
inferior conj	9728 Jan	22	08:37	5°♒47'23	-0°59'42
minimum elong	9728 Jan	22	10:24	5°♒42'26	0°58'39
asc. node	9728 Jan	25	08:17	2°♒42'29	
morning rise	9728 Jan	28	18:19	0°♒18'06	
	9728 Jan	29	13:02	30°℞♑	
direct	9728 Jan	31	08:56	29°♑42'20	
	9728 Feb	02	04:59	0°♒	
morning max el	9728 Feb	06	18:48	3°♒04'14	17°57'23
morning set	9728 Feb	24	09:40	29°♒21'35	
	9728 Feb	24	18:56	0°♓	
desc. node	9728 Feb	28	10:07	6°♓00'13	
superior conj	9728 Mar	09	10:54	22°♓14'15	-1°09'23
minimum elong	9728 Mar	09	03:12	21°♓43'36	1°08'20
max. Earth dist.	9728 Mar	13	09:14	28°♓27'10	1.45301 AU
	9728 Mar	14	08:52	0°♈	
evening rise	9728 Mar	25	12:56	17°♈19'52	
	9728 Apr	02	19:51	0°♉	
greatest brilliancy	9728 Apr	08	20:46	9°♉01'54	-0.6m
evening max el	9728 Apr	20	12:53	24°♉17'03	19°49'45
asc. node	9728 Apr	22	06:41	25°♉54'38	
retrograde	9728 Apr	28	00:21	28°♉34'15	
evening set	9728 May	01	18:38	27°♉11'52	
inferior conj	9728 May	07	03:04	21°♉13'20	3°17'33
minimum elong	9728 May	07	02:24	21°♉15'35	3°17'14
min. Earth dist.	9728 May	08	04:06	19°♉49'28	0.67407 AU
morning rise	9728 May	12	09:51	14°♉54'22	
direct	9728 May	18	07:27	12°♉16'46	
desc. node	9728 May	26	10:23	15°♉56'35	
morning max el	9728 May	30	06:24	19°♉27'11	25°10'06
	9728 Jun	08	05:34	0°♊	
	9728 Jun	28	07:39	0°♋	
morning set	9728 Jul	05	06:59	12°♋02'18	
max. Earth dist.	9728 Jul	08	21:41	18°♋37'49	1.36583 AU
	9728 Jul	14	20:09	0°♌	
superior conj	9728 Jul	15	06:20	0°♌50'10	-0°38'14
minimum elong	9728 Jul	15	08:43	1°♌01'59	0°38'06
asc. node	9728 Jul	19	05:46	8°♌47'53	
evening rise	9728 Jul	23	11:59	17°♌26'21	
	9728 Jul	29	22:40	0°♍	
evening max el	9728 Aug	09	17:46	15°♍41'30	19°41'43
retrograde	9728 Aug	19	16:23	20°♍36'53	
evening set	9728 Aug	21	12:52	20°♍27'23	
desc. node	9728 Aug	22	09:14	20°♍16'58	
inferior conj	9728 Aug	30	09:30	16°♍24'38	-2°27'28
minimum elong	9728 Aug	30	02:51	16°♍35'00	2°25'06
min. Earth dist.	9728 Sep	01	14:25	15°♍02'20	0.55339 AU
morning rise	9728 Sep	07	14:46	12°♍01'19	
direct	9728 Sep	12	09:42	11°♍10'29	
morning max el	9728 Sep	26	06:32	18°♍04'37	24°44'34
	9728 Oct	06	03:04	0°♎	
asc. node	9728 Oct	15	05:53	15°♎18'31	
morning set	9728 Oct	22	01:11	29°♎04'45	
	9728 Oct	22	11:30	0°♏	

superior conj	9728 Oct 28	21:36	14°♏01'44	1°38'45
minimum elong	9728 Oct 28	20:46	13°♏57'11	1°38'58
max. Earth dist.	9728 Oct 30	17:18	18°♏00'08	1.32473 AU
evening rise	9728 Nov 05	04:18	29°♏32'17	
	9728 Nov 05	09:44	0°♐	
desc. node	9728 Nov 18	07:28	23°♐46'23	
	9728 Nov 22	05:51	0°♑	
evening max el	9728 Dec 08	09:15	20°♑17'25	27°30'24
retrograde	9728 Dec 22	03:22	27°♑36'16	
evening set	9728 Dec 29	03:52	25°♑08'38	
min. Earth dist.	9729 Jan 01	21:30	22°♑00'15	0.63121 AU
inferior conj	9729 Jan 04	15:31	19°♑17'36	-2°09'53
minimum elong	9729 Jan 04	19:43	19°♑07'12	2°07'51
asc. node	9729 Jan 11	05:24	14°♑12'11	
morning rise	9729 Jan 11	13:41	14°♑04'07	
direct	9729 Jan 13	21:45	13°♑38'14	
morning max el	9729 Jan 20	12:17	17°♑02'07	17°47'17
	9729 Jan 29	19:05	0°♒	
morning set	9729 Feb 05	16:55	11°♒52'05	
desc. node	9729 Feb 14	06:58	26°♒37'41	
	9729 Feb 16	07:13	0°♓	
superior conj	9729 Feb 17	19:29	2°♓30'35	-0°25'59
minimum elong	9729 Feb 17	16:47	2°♓19'25	0°25'22
max. Earth dist.	9729 Feb 24	03:11	12°♓47'19	1.44292 AU
evening rise	9729 Mar 05	00:23	26°♓42'58	
	9729 Mar 07	03:47	0°♈	
	9729 Mar 27	19:38	0°♉	
evening max el	9729 Apr 03	13:00	7°♉58'57	20°54'48
asc. node	9729 Apr 09	03:51	12°♉15'49	
retrograde	9729 Apr 11	22:56	12°♉54'36	
evening set	9729 Apr 16	02:51	11°♉16'37	
inferior conj	9729 Apr 21	09:48	5°♉05'47	3°04'31
minimum elong	9729 Apr 21	08:15	5°♉11'08	3°04'06
min. Earth dist.	9729 Apr 21	21:05	4°♉26'48	0.68206 AU
	9729 Apr 25	09:15	30°℞♈	
morning rise	9729 Apr 26	13:27	28°♈50'09	
direct	9729 May 01	22:09	26°♈27'57	
	9729 May 09	13:04	0°♉	
morning max el	9729 May 12	15:42	2°♉52'08	23°41'41
desc. node	9729 May 13	07:19	3°♉32'10	
	9729 Jun 02	08:00	0°♊	
morning set	9729 Jun 16	21:24	23°♊15'13	
	9729 Jun 20	19:00	0°♋	
max. Earth dist.	9729 Jun 20	18:23	29°♊57'17	1.38813 AU
superior conj	9729 Jun 28	05:48	13°♋33'44	-1°10'58
minimum elong	9729 Jun 28	10:26	13°♋55'29	1°10'36
asc. node	9729 Jul 06	02:44	28°♋43'12	
	9729 Jul 06	18:29	0°♌	
evening rise	9729 Jul 07	09:51	1°♌15'00	
evening max el	9729 Jul 23	15:47	27°♌36'59	18°48'57
	9729 Jul 26	13:09	0°♍	
retrograde	9729 Aug 01	00:54	1°♍47'19	
evening set	9729 Aug 02	23:54	1°♍34'30	
	9729 Aug 06	22:37	30°℞♌	
desc. node	9729 Aug 09	06:23	28°♌32'50	
inferior conj	9729 Aug 11	02:52	27°♌14'20	-0°34'14
minimum elong	9729 Aug 11	01:27	27°♌16'54	0°33'54
min. Earth dist.	9729 Aug 14	05:31	25°♌00'13	0.56845 AU
morning rise	9729 Aug 18	23:41	22°♌14'01	
direct	9729 Aug 24	13:54	20°♌58'36	
morning max el	9729 Sep 07	20:32	28°♌23'12	26°19'03
	9729 Sep 09	11:06	0°♍	
	9729 Sep 29	16:14	0°♎	
asc. node	9729 Oct 02	02:47	4°♎44'29	
morning set	9729 Oct 06	11:54	13°♎46'51	

superior conj	9729 Oct 13	08:46	28°♎50'42	1°31'26
minimum elong	9729 Oct 13	07:05	28°♎41'21	1°31'27
	9729 Oct 13	21:16	0°♏	
max. Earth dist.	9729 Oct 14	00:54	0°♏20'12	1.31760 AU
evening rise	9729 Oct 20	06:57	13°♏54'15	
	9729 Oct 28	10:55	0°♐	
desc. node	9729 Nov 05	04:35	13°♐07'15	
	9729 Nov 17	21:55	0°♑	
evening max el	9729 Nov 20	16:29	2°♑48'07	27°13'42
retrograde	9729 Dec 04	13:30	10°♑00'06	
evening set	9729 Dec 11	13:35	7°♑48'24	
min. Earth dist.	9729 Dec 15	07:05	5°♑03'09	0.61108 AU
inferior conj	9729 Dec 18	09:14	2°♑22'05	-3°23'20
minimum elong	9729 Dec 18	15:51	2°♑07'39	3°20'40
	9729 Dec 21	05:51	30°℞♐	
morning rise	9729 Dec 25	20:34	27°♐27'51	
direct	9729 Dec 28	00:55	27°♐08'16	
asc. node	9729 Dec 29	02:29	27°♐13'05	
	9730 Jan 03	09:25	0°♑	
morning max el	9730 Jan 04	03:49	0°♑42'58	17°55'29
morning set	9730 Jan 19	19:11	25°♑16'29	
	9730 Jan 22	09:18	0°♒	
superior conj	9730 Jan 30	05:27	13°♒59'42	0°14'35
minimum elong	9730 Jan 30	06:43	14°♒05'10	0°14'40
behind sun begin	9730 Jan 30	03:24	13°♒50'47	
behind sun end	9730 Jan 30	10:01	14°♒19'33	
desc. node	9730 Feb 01	03:52	17°♒20'10	
max. Earth dist.	9730 Feb 06	17:30	26°♒41'36	1.42692 AU
	9730 Feb 08	18:03	0°♓	
evening rise	9730 Feb 12	21:16	6°♓37'07	
	9730 Feb 28	09:45	0°♈	
evening max el	9730 Mar 17	07:53	21°♈42'00	22°09'53
retrograde	9730 Mar 26	20:19	27°♈19'57	
asc. node	9730 Mar 27	01:01	27°♈19'45	
evening set	9730 Mar 31	10:57	25°♈26'37	
inferior conj	9730 Apr 05	18:32	19°♈05'54	2°41'15
minimum elong	9730 Apr 05	16:27	19°♈13'10	2°40'41
min. Earth dist.	9730 Apr 05	17:02	19°♈11'09	0.68553 AU
morning rise	9730 Apr 10	21:49	12°♈54'58	
direct	9730 Apr 15	16:45	10°♈53'03	
morning max el	9730 Apr 25	03:21	16°♈25'19	22°12'43
desc. node	9730 Apr 30	04:13	22°♈05'01	
	9730 May 06	06:04	0°♉	
	9730 May 26	09:05	0°♊	
morning set	9730 May 28	09:56	3°♊16'14	
max. Earth dist.	9730 Jun 02	17:17	12°♊01'02	1.41066 AU
superior conj	9730 Jun 10	11:43	25°♊27'16	-1°41'10
minimum elong	9730 Jun 10	17:52	25°♊54'39	1°40'51
	9730 Jun 13	00:28	0°♋	
evening rise	9730 Jun 20	21:14	14°♋31'52	
asc. node	9730 Jun 22	23:44	18°♋26'53	
	9730 Jun 29	11:33	0°♌	
evening max el	9730 Jul 06	22:48	10°♌10'41	18°16'59
retrograde	9730 Jul 14	04:49	13°♌49'47	
evening set	9730 Jul 16	10:39	13°♌29'33	
inferior conj	9730 Jul 23	18:07	8°♌48'51	0°59'55
minimum elong	9730 Jul 23	20:03	8°♌44'46	0°58'56
min. Earth dist.	9730 Jul 27	03:00	5°♌58'41	0.58892 AU
desc. node	9730 Jul 27	03:33	5°♌57'34	
morning rise	9730 Jul 31	02:08	3°♌14'08	
direct	9730 Aug 06	08:02	1°♌28'46	
morning max el	9730 Aug 20	17:11	9°♌15'20	27°25'37
	9730 Sep 05	14:14	0°♍	
asc. node	9730 Sep 18	23:41	24°♍28'14	
morning set	9730 Sep 20	19:49	28°♍17'54	

	9730 Sep	21	15:06	0°♎	
superior conj	9730 Sep	27	20:33	13°♎37'52	1°18'41
minimum elong	9730 Sep	27	18:23	13°♎25'48	1°18'27
max. Earth dist.	9730 Sep	27	10:42	12°♎43'08	1.31518 AU
evening rise	9730 Oct	04	14:34	28°♎27'38	
	9730 Oct	05	07:57	0°♏	
	9730 Oct	21	21:02	0°♐	
desc. node	9730 Oct	23	01:45	1°♐44'44	
evening max el	9730 Nov	02	16:36	14°♐28'56	26°22'53
retrograde	9730 Nov	16	14:39	21°♐34'32	
evening set	9730 Nov	23	04:49	19°♐48'37	
min. Earth dist.	9730 Nov	27	05:54	17°♐13'54	0.59000 AU
inferior conj	9730 Nov	30	10:06	14°♐49'50	-4°32'55
minimum elong	9730 Nov	30	17:52	14°♐35'07	4°30'35
morning rise	9730 Dec	08	09:25	10°♐17'52	
direct	9730 Dec	10	13:56	10°♐01'19	
asc. node	9730 Dec	15	23:33	11°♐48'35	
morning max el	9730 Dec	18	13:46	13°♐56'11	18°23'26
	9730 Dec	29	12:08	0°♑	
morning set	9731 Jan	03	10:46	9°♑16'57	
superior conj	9731 Jan	12	13:58	26°♑32'23	0°47'54
minimum elong	9731 Jan	12	16:58	26°♑46'13	0°47'47
	9731 Jan	14	11:32	0°♒	
desc. node	9731 Jan	19	00:47	8°♒03'29	
max. Earth dist.	9731 Jan	20	02:41	9°♒55'10	1.40675 AU
evening rise	9731 Jan	24	13:15	17°♒23'17	
	9731 Feb	01	11:09	0°♓	
	9731 Feb	23	00:20	0°♈	
evening max el	9731 Feb	27	22:59	5°♈27'08	23°29'58
retrograde	9731 Mar	10	15:06	11°♈45'23	
asc. node	9731 Mar	13	22:12	10°♈53'03	
evening set	9731 Mar	15	17:21	9°♈37'45	
min. Earth dist.	9731 Mar	20	13:47	3°♈56'57	0.68461 AU
inferior conj	9731 Mar	21	03:19	3°♈10'26	2°08'38
minimum elong	9731 Mar	21	01:07	3°♈18'00	2°07'58
	9731 Mar	23	12:57	30°℞♓	
morning rise	9731 Mar	26	08:52	27°♓05'23	
direct	9731 Mar	30	14:14	25°♓25'32	
	9731 Apr	07	16:48	0°♈	
morning max el	9731 Apr	07	20:37	0°♈09'25	20°51'02
desc. node	9731 Apr	17	01:06	11°♈19'21	
	9731 Apr	29	22:38	0°♉	
morning set	9731 May	07	20:49	12°♉08'57	
max. Earth dist.	9731 May	15	22:14	24°♉57'37	1.43064 AU
	9731 May	19	00:10	0°♊	
superior conj	9731 May	22	19:32	6°♊21'00	-2°03'54
minimum elong	9731 May	23	00:41	6°♊42'45	2°03'56
evening rise	9731 Jun	03	17:47	27°♊06'17	
	9731 Jun	05	08:52	0°♋	
asc. node	9731 Jun	09	20:47	7°♋53'58	
evening max el	9731 Jun	20	10:55	23°♋13'12	18°04'52
retrograde	9731 Jun	27	01:11	26°♋36'18	
evening set	9731 Jun	29	14:46	26°♋05'21	
inferior conj	9731 Jul	06	05:16	21°♋04'57	2°07'34
minimum elong	9731 Jul	06	08:09	20°♋57'53	2°06'24
min. Earth dist.	9731 Jul	09	08:46	18°♋01'22	0.61150 AU
morning rise	9731 Jul	12	23:00	15°♋05'58	
desc. node	9731 Jul	14	00:40	14°♋26'14	
direct	9731 Jul	19	14:19	12°♋51'46	
morning max el	9731 Aug	02	20:40	20°♋51'45	27°55'17
	9731 Aug	10	18:16	0°♌	
	9731 Aug	29	14:20	0°♍	
morning set	9731 Sep	04	23:07	12°♍32'56	
asc. node	9731 Sep	05	20:34	14°♍24'19	
max. Earth dist.	9731 Sep	10	18:54	24°♍58'46	1.31758 AU
superior conj	9731 Sep	12	07:10	28°♍18'03	1°00'48
minimum elong	9731 Sep	12	04:58	28°♍05'58	1°00'23
	9731 Sep	13	01:38	0°♎	
evening rise	9731 Sep	19	01:09	13°♎06'53	
	9731 Sep	27	10:53	0°♏	
desc. node	9731 Oct	09	22:55	19°♏21'53	
evening max el	9731 Oct	15	08:33	25°♏19'02	25°02'21
	9731 Oct	21	10:31	0°♐	
retrograde	9731 Oct	29	05:07	2°♐17'20	
evening set	9731 Nov	03	20:54	1°♐04'55	
	9731 Nov	06	02:58	30°℞♏	
min. Earth dist.	9731 Nov	08	20:14	28°♏22'40	0.57030 AU
inferior conj	9731 Nov	11	15:12	26°♏32'24	-5°25'26
minimum elong	9731 Nov	11	20:38	26°♏23'25	5°24'26
morning rise	9731 Nov	19	22:39	22°♏22'50	
direct	9731 Nov	22	08:37	22°♏06'06	
morning max el	9731 Dec	01	14:18	26°♏31'01	19°12'57
asc. node	9731 Dec	02	20:33	27°♏48'13	
	9731 Dec	04	17:31	0°♐	
morning set	9731 Dec	18	11:23	23°♐41'11	
	9731 Dec	21	15:21	0°♑	
superior conj	9731 Dec	26	16:03	9°♑54'21	1°12'42
minimum elong	9731 Dec	26	19:08	10°♑09'15	1°12'42
max. Earth dist.	9732 Jan	02	08:29	22°♑25'57	1.38484 AU
desc. node	9732 Jan	05	21:44	28°♑44'09	
evening rise	9732 Jan	06	02:57	29°♑06'53	
	9732 Jan	06	15:14	0°♒	
	9732 Jan	25	20:28	0°♓	
evening max el	9732 Feb	10	12:25	19°♓15'21	24°48'43
retrograde	9732 Feb	22	06:02	26°♓05'40	
evening set	9732 Feb	27	20:28	23°♓45'38	
asc. node	9732 Feb	28	19:23	22°♓52'58	
min. Earth dist.	9732 Mar	03	09:06	18°♓39'31	0.67961 AU
inferior conj	9732 Mar	04	10:18	17°♓16'06	1°27'01
minimum elong	9732 Mar	04	08:27	17°♓22'12	1°26'28
morning rise	9732 Mar	09	20:39	11°♓18'16	
direct	9732 Mar	13	13:21	9°♓59'49	
morning max el	9732 Mar	20	21:28	14°♓05'08	19°41'54
	9732 Apr	02	04:31	0°♈	
greatest brilliancy	9732 Apr	02	15:20	0°♈39'34	-0.6m
desc. node	9732 Apr	02	21:57	1°♈03'50	
morning set	9732 Apr	15	19:01	20°♈32'11	
	9732 Apr	21	21:34	0°♉	
max. Earth dist.	9732 Apr	27	09:51	8°♉40'03	1.44580 AU
superior conj	9732 May	02	02:49	16°♉11'20	-2°12'45
minimum elong	9732 May	02	02:44	16°♉10'59	2°13'00
	9732 May	10	13:08	0°♊	
evening rise	9732 May	15	18:34	8°♊46'34	
asc. node	9732 May	26	17:50	26°♊57'36	
	9732 May	28	18:20	0°♋	
evening max el	9732 Jun	03	00:35	6°♋34'30	18°11'39
retrograde	9732 Jun	09	09:27	9°♋56'04	
evening set	9732 Jun	12	06:47	9°♋12'03	
inferior conj	9732 Jun	18	08:11	3°♋53'26	2°50'34
minimum elong	9732 Jun	18	10:32	3°♋46'57	2°49'45
min. Earth dist.	9732 Jun	20	23:33	0°♋59'21	0.63335 AU
	9732 Jun	21	22:29	30°℞♊	
morning rise	9732 Jun	24	12:44	27°♊40'45	
desc. node	9732 Jun	29	21:45	25°♊11'41	
direct	9732 Jul	01	06:15	25°♊05'41	
	9732 Jul	11	19:07	0°♋	
morning max el	9732 Jul	15	04:47	3°♋08'42	27°46'52
	9732 Aug	04	05:08	0°♌	

morning set	9732 Aug 18 19:27	26°♌24'52	
	9732 Aug 20 13:55	0°♍	
asc. node	9732 Aug 22 17:27	4°♍27'16	
max. Earth dist.	9732 Aug 23 21:32	6°♍55'31	1.32486 AU
superior conj	9732 Aug 26 14:40	12°♍44'56	0°38'05
minimum elong	9732 Aug 26 12:59	12°♍35'51	0°37'37
evening rise	9732 Sep 02 12:41	27°♍45'43	
	9732 Sep 03 13:56	0°♎	
	9732 Sep 20 20:30	0°♏	
desc. node	9732 Sep 25 20:06	5°♏35'31	
evening max el	9732 Sep 25 19:37	5°♏34'21	23°24'31
retrograde	9732 Oct 09 06:47	12°♏17'28	
evening set	9732 Oct 13 13:00	11°♏37'58	
min. Earth dist.	9732 Oct 20 05:29	8°♏29'52	0.55498 AU
inferior conj	9732 Oct 22 00:19	7°♏26'55	-5°41'18
minimum elong	9732 Oct 21 22:52	7°♏29'04	5°41'03
morning rise	9732 Oct 30 10:37	3°♏34'37	
direct	9732 Nov 02 08:20	3°♏14'06	
morning max el	9732 Nov 13 02:10	8°♏18'00	20°25'06
asc. node	9732 Nov 18 17:31	14°♏56'33	
	9732 Nov 27 14:07	0°♐	
morning set	9732 Dec 01 17:56	8°♐20'27	
superior conj	9732 Dec 09 07:03	23°♐52'18	1°29'14
minimum elong	9732 Dec 09 09:17	24°♐03'36	1°29'25
	9732 Dec 12 08:38	0°♑	
max. Earth dist.	9732 Dec 14 15:44	4°♑27'55	1.36369 AU
evening rise	9732 Dec 18 12:19	11°♑41'55	
desc. node	9732 Dec 22 18:42	19°♑18'16	
	9732 Dec 29 04:44	0°♒	
	9733 Jan 20 02:25	0°♓	
evening max el	9733 Jan 23 01:48	3°♓04'32	25°59'00
retrograde	9733 Feb 04 16:04	10°♓15'19	
evening set	9733 Feb 10 18:42	7°♓45'54	
asc. node	9733 Feb 14 16:31	3°♓39'36	
min. Earth dist.	9733 Feb 15 00:43	3°♓14'28	0.67067 AU
inferior conj	9733 Feb 16 13:33	1°♓19'23	0°36'41
minimum elong	9733 Feb 16 12:38	1°♓22'16	0°36'30
	9733 Feb 17 15:14	30°♑℞	
morning rise	9733 Feb 22 07:11	25°♒30'42	
direct	9733 Feb 25 12:33	24°♒31'23	
morning max el	9733 Mar 04 05:52	28°♒10'22	18°48'14
	9733 Mar 05 23:09	0°♓	
desc. node	9733 Mar 20 18:47	21°♓10'41	
morning set	9733 Mar 26 04:37	29°♓36'16	
	9733 Mar 26 10:41	0°♈	
max. Earth dist.	9733 Apr 10 03:03	22°♈56'22	1.45449 AU
superior conj	9733 Apr 11 14:14	25°♈14'21	-2°02'13
minimum elong	9733 Apr 11 07:01	24°♈46'00	2°01'57
	9733 Apr 14 14:53	0°♉	
evening rise	9733 Apr 26 19:59	19°♉27'56	
greatest brilliancy	9733 May 02 23:16	29°♉21'34	-0.9m
	9733 May 03 08:51	0°♊	
asc. node	9733 May 13 14:55	15°♊30'25	
evening max el	9733 May 17 12:50	20°♊07'30	18°36'29
retrograde	9733 May 24 01:37	23°♊41'11	
evening set	9733 May 27 06:44	22°♊42'39	
inferior conj	9733 Jun 01 22:56	17°♊07'10	3°13'17
minimum elong	9733 Jun 02 00:08	17°♊03'32	3°12'48
min. Earth dist.	9733 Jun 03 23:22	14°♊40'27	0.65242 AU
morning rise	9733 Jun 07 16:42	10°♊48'33	
direct	9733 Jun 14 05:55	8°♊04'01	
desc. node	9733 Jun 16 18:48	8°♊25'37	
morning max el	9733 Jun 27 15:05	15°♊57'39	27°04'47
	9733 Jul 09 04:29	0°♋	
	9733 Jul 28 00:25	0°♌	
morning set	9733 Aug 02 06:03	9°♌46'11	
max. Earth dist.	9733 Aug 06 15:19	18°♌27'19	1.33715 AU
asc. node	9733 Aug 09 14:20	24°♌33'02	
superior conj	9733 Aug 10 16:56	26°♌52'24	0°11'02
minimum elong	9733 Aug 10 16:22	26°♌49'26	0°10'41
behind sun begin	9733 Aug 10 12:08	26°♌27'11	
behind sun end	9733 Aug 10 20:36	27°♌11'43	
	9733 Aug 12 04:25	0°♍	
evening rise	9733 Aug 17 23:18	12°♍18'45	
	9733 Aug 26 23:50	0°♎	
evening max el	9733 Sep 07 09:54	15°♎47'33	21°46'19
desc. node	9733 Sep 12 17:17	19°♎56'24	
retrograde	9733 Sep 19 21:15	21°♎59'28	
evening set	9733 Sep 22 17:29	21°♎41'17	
inferior conj	9733 Oct 01 19:13	17°♎43'15	-5°02'57
minimum elong	9733 Oct 01 10:40	17°♎55'12	5°01'10
min. Earth dist.	9733 Oct 01 12:59	17°♎51'57	0.54702 AU
morning rise	9733 Oct 10 05:04	13°♎55'00	
direct	9733 Oct 13 18:50	13°♎27'06	
morning max el	9733 Oct 26 00:46	19°♎14'57	21°58'04
	9733 Nov 03 17:27	0°♏	
asc. node	9733 Nov 05 14:28	2°♏58'18	
morning set	9733 Nov 16 04:00	23°♏07'25	
	9733 Nov 19 09:52	0°♐	
superior conj	9733 Nov 23 07:08	8°♐14'58	1°38'11
minimum elong	9733 Nov 23 08:09	8°♐20'19	1°38'29
max. Earth dist.	9733 Nov 27 05:10	16°♐21'40	1.34532 AU
evening rise	9733 Dec 01 13:36	24°♐58'08	
	9733 Dec 04 05:31	0°♑	
desc. node	9733 Dec 09 15:42	9°♑40'37	
	9733 Dec 22 16:52	0°♒	
evening max el	9734 Jan 05 15:18	16°♒46'12	26°53'29
retrograde	9734 Jan 18 20:21	24°♒06'23	
evening set	9734 Jan 25 10:05	21°♒32'01	
min. Earth dist.	9734 Jan 29 10:19	17°♒34'55	0.65801 AU
inferior conj	9734 Jan 31 10:55	15°♒14'26	-0°22'13
minimum elong	9734 Jan 31 11:32	15°♒12'38	0°21'40
asc. node	9734 Feb 01 13:39	13°♒58'00	
morning rise	9734 Feb 06 14:09	9°♒37'20	
direct	9734 Feb 09 09:43	8°♒53'57	
morning max el	9734 Feb 15 20:00	12°♒18'39	18°11'05
	9734 Feb 28 11:45	0°♓	
morning set	9734 Mar 06 17:27	10°♓03'30	
desc. node	9734 Mar 07 15:36	11°♓33'01	
	9734 Mar 19 04:50	0°♈	
superior conj	9734 Mar 21 20:21	4°♈09'56	-1°32'26
minimum elong	9734 Mar 21 10:54	3°♈32'52	1°31'27
max. Earth dist.	9734 Mar 23 23:03	7°♈28'43	1.45574 AU
evening rise	9734 Apr 06 22:50	29°♈16'54	
	9734 Apr 07 09:55	0°♉	
greatest brilliancy	9734 Apr 18 20:56	17°♉40'39	-0.7m
	9734 Apr 27 14:04	0°♊	
asc. node	9734 Apr 30 12:02	3°♊22'21	
evening max el	9734 Apr 30 21:20	3°♊46'14	19°18'27
retrograde	9734 May 07 22:21	7°♊44'28	
evening set	9734 May 11 11:39	6°♊30'45	
inferior conj	9734 May 16 22:03	0°♊39'57	3°19'50
minimum elong	9734 May 16 22:01	0°♊40'03	3°19'31
	9734 May 17 10:17	30°♉℞	
min. Earth dist.	9734 May 18 07:19	28°♉51'40	0.66745 AU
morning rise	9734 May 22 07:59	24°♉20'11	
direct	9734 May 28 12:06	21°♉37'34	
desc. node	9734 Jun 03 15:47	23°♉44'25	

morning max el	9734 Jun 10 01:32	29°♉07'57	25°57'02
	9734 Jun 10 21:42	0°♊	
	9734 Jul 03 00:18	0°♋	
morning set	9734 Jul 16 03:19	22°♋27'46	
max. Earth dist.	9734 Jul 19 22:43	29°♋37'58	1.35419 AU
	9734 Jul 20 03:17	0°♌	
superior conj	9734 Jul 25 11:25	10°♌33'52	-0°19'34
minimum elong	9734 Jul 25 12:35	10°♌39'48	0°19'38
asc. node	9734 Jul 27 11:15	14°♌37'58	
evening rise	9734 Aug 02 07:00	26°♌40'17	
	9734 Aug 03 22:04	0°♍	
evening max el	9734 Aug 20 11:24	26°♍31'40	20°21'34
	9734 Aug 24 19:57	0°♎	
desc. node	9734 Aug 30 14:29	1°♎55'20	
retrograde	9734 Aug 31 09:49	1°♎57'02	
evening set	9734 Sep 02 09:53	1°♎46'54	
	9734 Sep 07 13:56	30°℞♍	
inferior conj	9734 Sep 11 12:38	27°♍49'17	-3°32'40
minimum elong	9734 Sep 11 03:32	28°♍02'36	3°29'44
min. Earth dist.	9734 Sep 12 21:59	27°♍00'30	0.54828 AU
morning rise	9734 Sep 19 20:30	23°♍44'09	
direct	9734 Sep 24 04:00	23°♍04'10	
morning max el	9734 Oct 07 14:27	29°♍35'40	23°43'49
	9734 Oct 08 00:41	0°♎	
asc. node	9734 Oct 23 11:24	21°♎40'39	
	9734 Oct 27 19:40	0°♏	
morning set	9734 Oct 31 15:41	7°♏56'46	
superior conj	9734 Nov 07 13:23	22°♏53'57	1°40'20
minimum elong	9734 Nov 07 13:11	22°♏52'51	1°40'37
max. Earth dist.	9734 Nov 10 02:40	28°♏23'00	1.33093 AU
	9734 Nov 10 20:59	0°♐	
evening rise	9734 Nov 15 03:12	8°♐46'37	
desc. node	9734 Nov 26 12:46	29°♐45'39	
	9734 Nov 26 16:12	0°♑	
	9734 Dec 18 23:47	0°♒	
evening max el	9734 Dec 19 03:52	0°♒09'45	27°24'58
retrograde	9735 Jan 01 18:22	7°♒31'05	
evening set	9735 Jan 08 16:24	4°♒58'14	
min. Earth dist.	9735 Jan 12 11:47	1°♒33'32	0.64191 AU
	9735 Jan 13 23:38	30°℞♑	
inferior conj	9735 Jan 14 23:55	28°♑55'45	-1°28'48
minimum elong	9735 Jan 15 02:42	28°♑48'27	1°27'18
asc. node	9735 Jan 19 10:47	24°♑47'36	
morning rise	9735 Jan 21 14:48	23°♑33'01	
direct	9735 Jan 24 02:24	23°♑01'53	
morning max el	9735 Jan 30 13:13	26°♑23'06	17°50'55
	9735 Feb 02 16:28	0°♒	
morning set	9735 Feb 16 10:44	21°♒53'48	
	9735 Feb 21 06:11	0°♓	
desc. node	9735 Feb 22 12:27	2°♓06'11	
superior conj	9735 Mar 01 15:47	13°♓48'08	-0°51'04
minimum elong	9735 Mar 01 10:08	13°♓25'20	0°50'08
max. Earth dist.	9735 Mar 06 18:22	21°♓57'32	1.44956 AU
	9735 Mar 11 21:25	0°♈	
evening rise	9735 Mar 17 11:40	8°♈38'22	
	9735 Mar 31 16:25	0°♉	
evening max el	9735 Apr 14 00:32	17°♉26'55	20°15'53
asc. node	9735 Apr 17 09:11	20°♉20'53	
retrograde	9735 Apr 21 20:59	22°♉00'04	
evening set	9735 Apr 25 19:14	20°♉30'56	
inferior conj	9735 May 01 02:44	14°♉26'37	3°13'20
minimum elong	9735 May 01 01:39	14°♉30'18	3°13'00
min. Earth dist.	9735 May 01 21:42	13°♉21'57	0.67800 AU
morning rise	9735 May 06 07:49	8°♉08'44	
direct	9735 May 11 23:57	5°♉37'10	
desc. node	9735 May 21 12:45	10°♉37'45	
morning max el	9735 May 23 11:08	12°♉29'34	24°33'09
	9735 Jun 06 13:05	0°♊	
	9735 Jun 25 19:05	0°♋	
morning set	9735 Jun 28 06:32	4°♋17'09	
max. Earth dist.	9735 Jul 01 21:31	10°♋44'52	1.37507 AU
superior conj	9735 Jul 08 18:54	23°♋40'50	-0°52'11
minimum elong	9735 Jul 08 22:16	23°♋57'04	0°51'57
	9735 Jul 12 00:21	0°♌	
asc. node	9735 Jul 14 08:11	4°♌37'44	
evening rise	9735 Jul 17 09:19	10°♌43'01	
	9735 Jul 27 21:13	0°♍	
evening max el	9735 Aug 03 02:28	8°♍00'56	19°16'41
retrograde	9735 Aug 12 08:29	12°♍36'18	
evening set	9735 Aug 14 04:49	12°♍26'05	
desc. node	9735 Aug 17 11:41	11°♍22'16	
inferior conj	9735 Aug 22 18:37	8°♍16'41	-1°38'13
minimum elong	9735 Aug 22 14:16	8°♍23'55	1°36'41
min. Earth dist.	9735 Aug 25 10:41	6°♍30'57	0.55884 AU
morning rise	9735 Aug 30 20:52	3°♍37'39	
direct	9735 Sep 04 23:53	2°♍37'26	
morning max el	9735 Sep 19 02:33	9°♍46'21	25°27'23
	9735 Oct 04 08:07	0°♎	
asc. node	9735 Oct 10 08:18	10°♎52'34	
morning set	9735 Oct 16 03:12	22°♎42'21	
	9735 Oct 19 11:50	0°♏	
superior conj	9735 Oct 22 23:21	7°♏40'47	1°36'21
minimum elong	9735 Oct 22 22:08	7°♏34'00	1°36'28
max. Earth dist.	9735 Oct 24 07:06	10°♏35'22	1.32106 AU
evening rise	9735 Oct 30 01:51	22°♏57'57	
	9735 Nov 02 13:26	0°♐	
desc. node	9735 Nov 13 09:53	19°♐25'07	
	9735 Nov 20 11:27	0°♑	
evening max el	9735 Dec 01 13:36	13°♑02'32	27°27'21
retrograde	9735 Dec 15 09:27	20°♑19'31	
evening set	9735 Dec 22 10:44	17°♑57'09	
min. Earth dist.	9735 Dec 26 03:30	14°♑59'56	0.62286 AU
inferior conj	9735 Dec 29 01:37	12°♑15'50	-2°40'58
minimum elong	9735 Dec 29 06:54	12°♑03'25	2°38'35
morning rise	9736 Jan 05 05:27	7°♑10'28	
asc. node	9736 Jan 06 07:53	6°♑53'47	
direct	9736 Jan 07 11:26	6°♑47'48	
morning max el	9736 Jan 14 06:22	10°♑15'13	17°48'27
	9736 Jan 27 09:35	0°♒	
morning set	9736 Jan 30 02:51	4°♒49'25	
desc. node	9736 Feb 09 09:20	22°♒46'16	
superior conj	9736 Feb 10 11:15	24°♒36'07	-0°08'06
minimum elong	9736 Feb 10 10:30	24°♒32'54	0°07'45
behind sun begin	9736 Feb 10 02:40	23°♒59'50	
behind sun end	9736 Feb 10 18:19	25°♒05'54	
	9736 Feb 13 16:47	0°♓	
max. Earth dist.	9736 Feb 17 10:30	6°♓06'44	1.43672 AU
evening rise	9736 Feb 25 01:26	18°♓10'37	
	9736 Mar 03 19:37	0°♈	
	9736 Mar 25 19:50	0°♉	
evening max el	9736 Mar 26 22:14	1°♉09'02	21°25'48
asc. node	9736 Apr 03 06:21	6°♉11'17	
retrograde	9736 Apr 04 19:22	6°♉23'07	
evening set	9736 Apr 09 03:37	4°♉38'42	
	9736 Apr 13 06:32	30°℞♈	
inferior conj	9736 Apr 14 10:35	28°♈23'12	2°55'50
minimum elong	9736 Apr 14 08:46	28°♈29'32	2°55'22
min. Earth dist.	9736 Apr 14 16:21	28°♈03'07	0.68402 AU

morning rise	9736 Apr 19 13:43	22°♈09'08	
direct	9736 Apr 24 16:32	19°♈55'07	
morning max el	9736 May 04 21:04	25°♈58'04	23°03'19
desc. node	9736 May 07 09:40	28°♈40'07	
	9736 May 08 13:31	0°♉	
	9736 May 30 01:44	0°♊	
morning set	9736 Jun 08 10:27	15°♊01'01	
max. Earth dist.	9736 Jun 12 17:57	22°♊18'56	1.39780 AU
	9736 Jun 17 03:02	0°♋	
superior conj	9736 Jun 20 11:29	6°♋04'31	-1°24'21
minimum elong	9736 Jun 20 16:56	6°♋29'33	1°23'58
evening rise	9736 Jun 30 03:14	24°♋19'21	
asc. node	9736 Jun 30 05:11	24°♋28'41	
	9736 Jul 03 02:51	0°♌	
evening max el	9736 Jul 16 04:52	20°♌14'11	18°32'54
retrograde	9736 Jul 24 01:04	24°♌09'08	
evening set	9736 Jul 26 02:42	23°♌53'41	
inferior conj	9736 Aug 02 21:18	19°♌25'15	0°08'45
minimum elong	9736 Aug 02 21:37	19°♌24'38	0°08'22
transit middle	9736 Aug 02 21:37	19°♌24'38	0°08'22
transit begin	9736 Aug 02 18:33	19°♌30'36	
transit end	9736 Aug 03 00:42	19°♌18'40	
desc. node	9736 Aug 03 08:50	19°♌02'51	
min. Earth dist.	9736 Aug 06 04:33	16°♌52'59	0.57670 AU
morning rise	9736 Aug 10 13:00	14°♌09'13	
direct	9736 Aug 16 10:42	12°♌40'58	
morning max el	9736 Aug 30 19:05	20°♌16'40	26°51'25
	9736 Sep 08 03:46	0°♍	
	9736 Sep 25 23:58	0°♎	
asc. node	9736 Sep 26 05:13	0°♎26'28	
morning set	9736 Sep 29 12:55	7°♎19'46	
superior conj	9736 Oct 06 11:01	22°♎29'26	1°26'41
minimum elong	9736 Oct 06 09:05	22°♎18'39	1°26'35
max. Earth dist.	9736 Oct 06 15:50	22°♎56'15	1.31596 AU
	9736 Oct 09 20:26	0°♏	
evening rise	9736 Oct 13 06:53	7°♏25'10	
	9736 Oct 25 00:46	0°♐	
desc. node	9736 Oct 30 07:01	8°♐28'50	
evening max el	9736 Nov 12 18:08	25°♐12'48	26°56'14
	9736 Nov 18 22:45	0°♑	
retrograde	9736 Nov 26 16:15	2°♑22'24	
evening set	9736 Dec 03 13:10	0°♑20'44	
	9736 Dec 04 03:02	30°℞♐	
min. Earth dist.	9736 Dec 07 08:39	27°♐41'32	0.60203 AU
inferior conj	9736 Dec 10 12:35	25°♐05'39	-3°54'00
minimum elong	9736 Dec 10 19:57	24°♐50'29	3°51'19
morning rise	9736 Dec 18 05:18	20°♐20'30	
direct	9736 Dec 20 09:00	20°♐02'42	
asc. node	9736 Dec 23 04:58	20°♐34'54	
morning max el	9736 Dec 27 19:58	23°♐45'19	18°04'51
	9737 Jan 01 20:14	0°♑	
morning set	9737 Jan 12 11:25	18°♑30'53	
	9737 Jan 18 16:09	0°♒	
superior conj	9737 Jan 22 07:21	6°♒33'37	0°29'42
minimum elong	9737 Jan 22 09:36	6°♒43'40	0°29'40
desc. node	9737 Jan 26 06:13	13°♒29'22	
max. Earth dist.	9737 Jan 29 22:20	19°♒43'40	1.41870 AU
evening rise	9737 Feb 04 05:45	28°♒25'41	
	9737 Feb 05 05:20	0°♓	
	9737 Feb 25 10:48	0°♈	
evening max el	9737 Mar 09 15:23	14°♈53'17	22°43'47
retrograde	9737 Mar 19 15:45	20°♈48'54	
asc. node	9737 Mar 21 03:32	20°♈37'58	
evening set	9737 Mar 24 11:09	18°♈49'34	
inferior conj	9737 Mar 29 19:35	12°♈25'44	2°28'32
minimum elong	9737 Mar 29 17:23	12°♈33'20	2°27'55
min. Earth dist.	9737 Mar 29 12:58	12°♈48'41	0.68568 AU
morning rise	9737 Apr 03 23:29	6°♈17'00	
direct	9737 Apr 08 12:40	4°♈24'08	
morning max el	9737 Apr 17 10:33	9°♈34'55	21°36'35
desc. node	9737 Apr 24 06:34	17°♈32'06	
	9737 May 03 07:57	0°♉	
morning set	9737 May 19 11:21	24°♉30'13	
	9737 May 22 21:29	0°♊	
max. Earth dist.	9737 May 25 18:51	4°♊43'56	1.41967 AU
superior conj	9737 Jun 02 08:30	17°♊33'39	-1°52'06
minimum elong	9737 Jun 02 14:39	18°♊00'26	1°51'53
	9737 Jun 09 08:29	0°♋	
evening rise	9737 Jun 13 08:48	7°♋18'54	
asc. node	9737 Jun 17 02:11	14°♋05'41	
	9737 Jun 26 22:53	0°♌	
evening max el	9737 Jun 29 14:34	3°♌01'24	18°09'30
retrograde	9737 Jul 06 12:18	6°♌31'25	
evening set	9737 Jul 08 21:35	6°♌06'50	
inferior conj	9737 Jul 15 21:23	1°♌17'38	1°31'52
minimum elong	9737 Jul 15 23:58	1°♌11'47	1°30'42
	9737 Jul 17 07:33	30°℞♋	
min. Earth dist.	9737 Jul 19 05:10	28°♋18'56	0.59852 AU
desc. node	9737 Jul 21 05:58	26°♋41'13	
morning rise	9737 Jul 22 23:22	25°♋31'35	
direct	9737 Jul 29 10:24	23°♋33'13	
	9737 Aug 11 06:18	0°♌	
morning max el	9737 Aug 12 18:30	1°♌25'58	27°42'58
	9737 Sep 02 10:32	0°♍	
asc. node	9737 Sep 13 02:06	20°♍15'55	
morning set	9737 Sep 13 19:06	21°♍44'22	
	9737 Sep 17 15:44	0°♎	
max. Earth dist.	9737 Sep 20 01:25	5°♎17'16	1.31561 AU
superior conj	9737 Sep 20 22:32	7°♎14'16	1°11'43
minimum elong	9737 Sep 20 20:17	7°♎01'51	1°11'23
evening rise	9737 Sep 27 16:01	22°♎01'57	
	9737 Oct 01 11:38	0°♏	
desc. node	9737 Oct 17 04:10	26°♏43'01	
	9737 Oct 19 16:30	0°♐	
evening max el	9737 Oct 25 15:02	6°♐32'32	25°51'51
retrograde	9737 Nov 08 12:49	13°♐34'33	
evening set	9737 Nov 14 19:04	12°♐02'36	
min. Earth dist.	9737 Nov 19 03:41	9°♐26'56	0.58126 AU
inferior conj	9737 Nov 22 05:24	7°♐15'40	-4°58'20
minimum elong	9737 Nov 22 12:43	7°♐02'34	4°56'30
morning rise	9737 Nov 30 08:43	2°♐53'02	
direct	9737 Dec 02 14:54	2°♐36'44	
asc. node	9737 Dec 10 02:01	5°♐47'58	
morning max el	9737 Dec 11 02:19	6°♐43'21	18°41'46
	9737 Dec 25 21:39	0°♑	
morning set	9737 Dec 27 07:21	2°♑43'22	
superior conj	9738 Jan 04 23:58	19°♑29'09	0°59'27
minimum elong	9738 Jan 05 03:11	19°♑44'11	0°59'22
	9738 Jan 10 17:49	0°♒	
max. Earth dist.	9738 Jan 12 06:09	2°♒40'33	1.39753 AU
desc. node	9738 Jan 13 03:08	4°♒12'08	
evening rise	9738 Jan 16 07:07	9°♒37'10	
	9738 Jan 29 03:33	0°♓	
evening max el	9738 Feb 20 05:43	28°♓40'42	24°04'00
	9738 Feb 21 14:48	0°♈	
retrograde	9738 Mar 03 08:52	5°♈13'01	
asc. node	9738 Mar 08 00:42	3°♈31'08	
evening set	9738 Mar 08 16:20	2°♈59'52	

	9738 Mar 11 12:27	30°℞♓	
min. Earth dist.	9738 Mar 13 09:19	27°♓33'58	0.68308 AU
inferior conj	9738 Mar 14 03:49	26°♓31'18	1°52'06
minimum elong	9738 Mar 14 01:42	26°♓38'28	1°51'27
morning rise	9738 Mar 19 11:07	20°♓29'14	
direct	9738 Mar 23 11:05	18°♓58'31	
morning max el	9738 Mar 31 06:53	23°♓23'57	20°19'50
	9738 Apr 05 23:31	0°♈	
desc. node	9738 Apr 11 03:26	7°♈00'24	
	9738 Apr 26 14:51	0°♉	
morning set	9738 Apr 28 14:19	3°♉02'50	
max. Earth dist.	9738 May 08 03:13	18°♉03'14	1.43792 AU
superior conj	9738 May 14 05:53	27°♉59'55	-2°09'44
minimum elong	9738 May 14 09:21	28°♉14'13	2°09'55
	9738 May 15 10:52	0°♊	
evening rise	9738 May 26 21:28	19°♊31'13	
	9738 Jun 01 22:49	0°♋	
asc. node	9738 Jun 03 23:12	3°♋23'17	
evening max el	9738 Jun 13 03:42	16°♋12'27	18°05'26
retrograde	9738 Jun 19 14:21	19°♋33'07	
evening set	9738 Jun 22 07:19	18°♋56'42	
inferior conj	9738 Jun 28 15:43	13°♋48'01	2°28'37
minimum elong	9738 Jun 28 18:29	13°♋40'50	2°27'34
min. Earth dist.	9738 Jul 01 14:28	10°♋46'14	0.62108 AU
morning rise	9738 Jul 05 03:37	7°♋42'10	
desc. node	9738 Jul 08 03:05	6°♋02'16	
direct	9738 Jul 11 20:40	5°♋18'11	
morning max el	9738 Jul 26 00:14	13°♋19'57	27°56'17
	9738 Aug 08 08:22	0°♌	
	9738 Aug 25 21:42	0°♍	
morning set	9738 Aug 28 19:41	5°♍49'54	
asc. node	9738 Aug 30 22:57	10°♍15'04	
max. Earth dist.	9738 Sep 03 07:54	17°♍26'47	1.32008 AU
superior conj	9738 Sep 05 08:00	21°♍48'58	0°51'43
minimum elong	9738 Sep 05 05:58	21°♍37'45	0°51'16
	9738 Sep 09 01:21	0°♎	
evening rise	9738 Sep 12 03:12	6°♎41'31	
	9738 Sep 24 05:23	0°♏	
desc. node	9738 Oct 04 01:21	13°♏47'41	
evening max el	9738 Oct 07 04:08	17°♏04'13	24°21'54
retrograde	9738 Oct 20 21:37	23°♏57'18	
evening set	9738 Oct 26 00:29	22°♏59'24	
min. Earth dist.	9738 Oct 31 14:58	20°♏08'34	0.56305 AU
inferior conj	9738 Nov 03 01:42	18°♏37'05	-5°37'55
minimum elong	9738 Nov 03 04:41	18°♏32'25	5°37'28
morning rise	9738 Nov 11 11:01	14°♏36'12	
direct	9738 Nov 14 01:30	14°♏18'12	
morning max el	9738 Nov 23 21:42	18°♏58'12	19°40'57
asc. node	9738 Nov 26 23:00	22°♏18'26	
	9738 Dec 02 06:24	0°♐	
morning set	9738 Dec 11 10:49	17°♐14'50	
	9738 Dec 17 18:17	0°♑	
superior conj	9738 Dec 19 08:04	3°♑07'44	1°20'41
minimum elong	9738 Dec 19 10:52	3°♑21'32	1°20'46
max. Earth dist.	9738 Dec 25 12:14	14°♑57'48	1.37561 AU
evening rise	9738 Dec 29 05:31	21°♑42'59	
desc. node	9738 Dec 31 00:05	24°♑50'07	
	9739 Jan 03 00:33	0°♒	
	9739 Jan 23 01:35	0°♓	
evening max el	9739 Feb 02 18:56	12°♓29'21	25°19'58
retrograde	9739 Feb 14 21:45	19°♓29'36	
evening set	9739 Feb 20 17:35	17°♓04'50	
asc. node	9739 Feb 22 21:52	14°♓55'40	
min. Earth dist.	9739 Feb 25 03:12	12°♓13'48	0.67633 AU
inferior conj	9739 Feb 26 09:26	10°♓36'00	1°06'45
minimum elong	9739 Feb 26 07:54	10°♓40'57	1°06'19
morning rise	9739 Mar 03 22:37	4°♓42'07	
direct	9739 Mar 07 10:20	3°♓32'13	
morning max el	9739 Mar 14 11:10	7°♓24'32	19°17'09
greatest brilliancy	9739 Mar 27 09:13	24°♓28'36	-0.7m
desc. node	9739 Mar 29 00:17	26°♓55'04	
	9739 Mar 31 01:08	0°♈	
morning set	9739 Apr 07 14:36	11°♈36'00	
	9739 Apr 19 10:28	0°♉	
max. Earth dist.	9739 Apr 20 17:54	2°♉03'39	1.45037 AU
superior conj	9739 Apr 24 03:35	7°♉26'41	-2°10'49
minimum elong	9739 Apr 24 00:19	7°♉13'43	2°10'57
	9739 May 08 01:14	0°♊	
evening rise	9739 May 08 12:42	0°♊47'24	
asc. node	9739 May 21 20:16	22°♊15'05	
evening max el	9739 May 27 17:03	29°♊39'33	18°19'58
	9739 May 28 01:26	0°♋	
retrograde	9739 Jun 03 02:37	3°♋05'01	
evening set	9739 Jun 06 03:10	2°♋15'01	
	9739 Jun 09 01:28	30°℞♊	
inferior conj	9739 Jun 12 00:11	26°♊48'50	3°02'25
minimum elong	9739 Jun 12 02:04	26°♊43'21	3°01'45
min. Earth dist.	9739 Jun 14 09:17	24°♊04'36	0.64186 AU
morning rise	9739 Jun 17 23:47	20°♊32'34	
direct	9739 Jun 24 15:58	17°♊52'13	
desc. node	9739 Jun 25 00:09	17°♊52'36	
morning max el	9739 Jul 08 09:55	25°♊53'18	27°32'44
	9739 Jul 12 04:49	0°♋	
	9739 Aug 01 21:38	0°♌	
morning set	9739 Aug 12 12:18	19°♌30'17	
max. Earth dist.	9739 Aug 17 07:20	29°♌14'32	1.32947 AU
asc. node	9739 Aug 17 19:49	0°♍19'47	
	9739 Aug 17 16:02	0°♍	
superior conj	9739 Aug 20 13:33	6°♍08'22	0°27'06
minimum elong	9739 Aug 20 12:17	6°♍01'31	0°26'40
evening rise	9739 Aug 27 14:37	21°♍18'41	
	9739 Aug 31 19:13	0°♎	
evening max el	9739 Sep 18 15:11	27°♎13'12	22°41'47
desc. node	9739 Sep 20 22:31	29°♎17'11	
	9739 Sep 21 20:22	0°♏	
retrograde	9739 Oct 01 18:24	3°♏46'08	
evening set	9739 Oct 05 09:13	3°♏17'25	
	9739 Oct 12 18:20	30°℞♎	
min. Earth dist.	9739 Oct 12 23:00	29°♎53'25	0.55052 AU
inferior conj	9739 Oct 14 03:35	29°♎12'40	-5°32'13
minimum elong	9739 Oct 13 22:40	29°♎19'41	5°31'32
morning rise	9739 Oct 22 13:58	25°♎24'31	
direct	9739 Oct 25 17:56	25°♎01'31	
	9739 Nov 05 17:36	0°♏	
morning max el	9739 Nov 06 03:51	0°♏23'37	21°02'29
asc. node	9739 Nov 13 19:58	9°♏50'53	
	9739 Nov 24 20:19	0°♐	
morning set	9739 Nov 25 19:06	1°♐57'38	
superior conj	9739 Dec 03 03:21	17°♐17'15	1°33'54
minimum elong	9739 Dec 03 05:05	17°♐26'11	1°34'09
max. Earth dist.	9739 Dec 07 21:20	26°♐51'56	1.35540 AU
	9739 Dec 09 11:56	0°♑	
evening rise	9739 Dec 11 22:04	4°♑36'09	
desc. node	9739 Dec 17 21:03	15°♑19'20	
	9739 Dec 26 21:25	0°♒	
evening max el	9740 Jan 16 08:09	26°♒15'07	26°24'30
	9740 Jan 20 16:22	0°♓	
retrograde	9740 Jan 29 05:35	3°♓31'59	

evening set	9740 Feb 04	13:10	0°♓59'31		
	9740 Feb 05	16:05	30℞♒		
min. Earth dist.	9740 Feb 08	16:31	26°♒42'53	0.66569 AU	
asc. node	9740 Feb 09	19:02	25°♒22'45		
inferior conj	9740 Feb 10	10:26	24°♒35'49	0°12'41	
minimum elong	9740 Feb 10	10:06	24°♒36'52	0°12'47	
transit middle	9740 Feb 10	10:06	24°♒36'52	0°12'47	
transit begin	9740 Feb 10	08:21	24°♒42'11		
transit end	9740 Feb 10	11:51	24°♒31'33		
morning rise	9740 Feb 16	07:54	18°♒51'55		
direct	9740 Feb 19	08:47	18°♒00'00		
morning max el	9740 Feb 25	22:21	21°♒31'45	18°30'24	
	9740 Mar 03	17:23	0°♓		
desc. node	9740 Mar 14	21:06	17°♓08'41		
morning set	9740 Mar 17	10:41	21°♓12'15		
	9740 Mar 23	00:24	0°♈		
superior conj	9740 Apr 02	10:28	16°♈20'15	-1°51'39	
minimum elong	9740 Apr 02	01:24	15°♈44'50	1°51'01	
max. Earth dist.	9740 Apr 02	12:10	16°♈26'54	1.45586 AU	
	9740 Apr 11	03:42	0°♉		
evening rise	9740 Apr 18	04:01	11°♉04'19		
greatest brilliancy	9740 Apr 27	05:31	25°♉23'44	-0.8m	
	9740 Apr 30	05:05	0°♊		
asc. node	9740 May 07	17:22	10°♊31'56		
evening max el	9740 May 10	03:55	13°♊15'23	18°52'19	
retrograde	9740 May 16	21:08	16°♊58'24		
evening set	9740 May 20	05:33	15°♊53'40		
inferior conj	9740 May 25	18:54	10°♊11'36	3°17'48	
minimum elong	9740 May 25	19:34	10°♊09'31	3°17'25	
min. Earth dist.	9740 May 27	12:55	7°♊59'56	0.65931 AU	
morning rise	9740 May 31	08:57	3°♊51'46		
direct	9740 Jun 06	18:44	1°♊06'31		
desc. node	9740 Jun 10	21:11	2°♊03'10		
morning max el	9740 Jun 19	20:33	8°♊53'01	26°38'31	
	9740 Jul 06	09:04	0°♋		
	9740 Jul 24	08:28	0°♌		
morning set	9740 Jul 25	17:45	2°♌36'08		
max. Earth dist.	9740 Jul 29	20:29	10°♌34'50	1.34383 AU	
superior conj	9740 Aug 03	12:52	20°♌05'30	-0°01'36	
minimum elong	9740 Aug 03	12:57	20°♌06'01	0°01'51	
behind sun begin	9740 Aug 03	07:11	19°♌36'05		
behind sun end	9740 Aug 03	18:44	20°♌35'59		
asc. node	9740 Aug 03	16:44	20°♌25'34		
	9740 Aug 08	06:12	0°♍		
evening rise	9740 Aug 11	00:15	5°♍47'08		
	9740 Aug 24	04:48	0°♎		
evening max el	9740 Aug 30	09:33	7°♎36'13	21°08'05	
desc. node	9740 Sep 06	19:43	12°♎40'25		
retrograde	9740 Sep 11	06:41	13°♎29'40		
evening set	9740 Sep 13	15:49	13°♎16'24		
inferior conj	9740 Sep 22	20:01	9°♎20'26	-4°29'47	
minimum elong	9740 Sep 22	10:17	9°♎34'09	4°27'14	
min. Earth dist.	9740 Sep 23	07:14	9°♎04'37	0.54637 AU	
morning rise	9740 Oct 01	05:12	5°♎27'08		
direct	9740 Oct 05	02:09	4°♎54'50		
morning max el	9740 Oct 17	21:56	11°♎02'31	22°42'14	
asc. node	9740 Oct 30	16:54	28°♎10'54		
	9740 Oct 31	17:49	0°♏		
morning set	9740 Nov 09	06:03	16°♏45'43		
	9740 Nov 15	10:15	0°♐		
superior conj	9740 Nov 16	06:24	1°♐47'38	1°39'53	
minimum elong	9740 Nov 16	06:53	1°♐50'14	1°40'11	
max. Earth dist.	9740 Nov 19	13:50	8°♐45'53	1.33863 AU	
evening rise	9740 Nov 24	05:03	18°♐07'11		

	9740 Nov 30	13:16	0°♑		
desc. node	9740 Dec 03	18:05	5°♑34'55		
	9740 Dec 20	03:23	0°♒		
evening max el	9740 Dec 28	21:29	9°♒50'43	27°10'13	
retrograde	9741 Jan 11	07:33	17°♒12'50		
evening set	9741 Jan 18	01:04	14°♒38'20		
min. Earth dist.	9741 Jan 21	23:05	10°♒55'08	0.65146 AU	
inferior conj	9741 Jan 24	04:37	8°♒26'07	-0°49'37	
minimum elong	9741 Jan 24	06:05	8°♒22'01	0°48'40	
asc. node	9741 Jan 26	16:11	5°♒47'36		
morning rise	9741 Jan 30	12:34	2°♒54'35		
direct	9741 Feb 02	04:25	2°♒16'57		
morning max el	9741 Feb 08	14:10	5°♒39'21	18°00'23	
	9741 Feb 25	03:00	0°♓		
morning set	9741 Feb 26	12:10	2°♓16'40		
desc. node	9741 Mar 01	17:56	7°♓36'06		
superior conj	9741 Mar 12	20:20	25°♓29'12	-1°15'43	
minimum elong	9741 Mar 12	12:01	24°♓56'16	1°14'38	
	9741 Mar 15	16:57	0°♈		
max. Earth dist.	9741 Mar 16	07:51	0°♈58'31	1.45395 AU	
evening rise	9741 Mar 28	23:22	20°♈37'20		
	9741 Apr 04	01:54	0°♉		
greatest brilliancy	9741 Apr 11	18:10	11°♉35'19	-0.7m	
evening max el	9741 Apr 23	10:23	26°♉55'46	19°41'11	
asc. node	9741 Apr 24	14:31	28°♉03'09		
	9741 Apr 27	04:19	0°♊		
retrograde	9741 Apr 30	18:53	1°♊07'34		
evening set	9741 May 04	11:52	29°♉47'25		
	9741 May 04	04:35	30℞♉		
inferior conj	9741 May 09	20:44	23°♉50'55	3°18'30	
minimum elong	9741 May 09	20:14	23°♉52'36	3°18'12	
min. Earth dist.	9741 May 10	23:53	22°♉20'34	0.67253 AU	
morning rise	9741 May 15	04:15	17°♉31'43		
direct	9741 May 21	03:41	14°♉52'30		
desc. node	9741 May 28	18:11	18°♉05'37		
morning max el	9741 Jun 02	06:26	22°♉08'19	25°22'37	
	9741 Jun 09	03:18	0°♊		
	9741 Jun 29	15:41	0°♋		
morning set	9741 Jul 08	07:58	14°♋57'02		
max. Earth dist.	9741 Jul 11	23:23	21°♋39'06	1.36274 AU	
	9741 Jul 16	07:52	0°♌		
superior conj	9741 Jul 18	03:08	3°♌33'33	-0°33'15	
minimum elong	9741 Jul 18	05:12	3°♌43'47	0°33'12	
asc. node	9741 Jul 21	13:38	10°♌28'32		
evening rise	9741 Jul 26	05:59	20°♌01'20		
	9741 Jul 31	06:56	0°♍		
evening max el	9741 Aug 12	17:01	18°♍39'22	19°51'21	
retrograde	9741 Aug 22	21:38	23°♍42'15		
evening set	9741 Aug 24	18:40	23°♍32'45		
desc. node	9741 Aug 24	16:56	23°♍33'28		
inferior conj	9741 Sep 02	17:17	19°♍31'45	-2°44'57	
minimum elong	9741 Sep 02	09:52	19°♍43'04	2°42'21	
min. Earth dist.	9741 Sep 04	17:34	18°♍18'02	0.55180 AU	
morning rise	9741 Sep 10	23:22	15°♍13'41		
direct	9741 Sep 15	15:26	14°♍25'53		
morning max el	9741 Sep 29	09:48	21°♍14'16	24°29'08	
	9741 Oct 07	00:02	0°♎		
asc. node	9741 Oct 17	13:48	17°♎06'47		
	9741 Oct 24	00:13	0°♏		
morning set	9741 Oct 24	17:51	1°♏33'42		
superior conj	9741 Oct 31	14:29	16°♏30'24	1°39'22	
minimum elong	9741 Oct 31	13:48	16°♏26'44	1°39'35	
max. Earth dist.	9741 Nov 02	14:39	20°♏52'14	1.32618 AU	
	9741 Nov 06	22:13	0°♐		

evening rise	9741 Nov 07	22:52	2°♐06'23	
desc. node	9741 Nov 20	15:10	25°♐29'59	
	9741 Nov 23	10:11	0°♑	
evening max el	9741 Dec 11	09:23	23°♑03'29	27°30'02
	9741 Dec 22	05:55	0°♒	
retrograde	9741 Dec 25	02:36	0°♒22'48	
	9741 Dec 27	20:55	30°℞♑	
evening set	9742 Jan 01	02:40	27°♑53'38	
min. Earth dist.	9742 Jan 04	20:43	24°♑41'11	0.63407 AU
inferior conj	9742 Jan 07	13:15	21°♑59'31	-1°58'56
minimum elong	9742 Jan 07	17:04	21°♑49'54	1°57'01
asc. node	9742 Jan 13	13:19	17°♑05'33	
morning rise	9742 Jan 14	09:29	16°♑43'27	
direct	9742 Jan 16	18:26	16°♑16'17	
morning max el	9742 Jan 23	07:41	19°♑39'04	17°47'39
	9742 Jan 31	00:30	0°♒	
morning set	9742 Feb 08	16:02	14°♒37'25	
desc. node	9742 Feb 16	14:46	28°♒12'22	
	9742 Feb 17	16:27	0°♓	
superior conj	9742 Feb 21	01:17	5°♓34'53	-0°32'32
minimum elong	9742 Feb 20	21:50	5°♓20'41	0°31'50
max. Earth dist.	9742 Feb 27	02:27	15°♓22'02	1.44488 AU
evening rise	9742 Mar 08	10:41	29°♓58'43	
	9742 Mar 08	11:01	0°♈	
	9742 Mar 28	19:31	0°♉	
evening max el	9742 Apr 06	11:20	10°♉37'14	20°44'21
asc. node	9742 Apr 11	11:43	14°♉34'37	
retrograde	9742 Apr 14	17:33	15°♉26'44	
evening set	9742 Apr 18	20:01	13°♉50'56	
inferior conj	9742 Apr 24	03:02	7°♉41'43	3°07'09
minimum elong	9742 Apr 24	01:36	7°♉46'39	3°06'46
min. Earth dist.	9742 Apr 24	16:14	6°♉56'10	0.68117 AU
morning rise	9742 Apr 29	06:58	1°♉25'32	
	9742 May 01	05:12	30°℞♈	
direct	9742 May 04	17:38	29°♈00'48	
	9742 May 08	13:42	0°♉	
morning max el	9742 May 15	15:48	5°♉32'21	23°55'08
desc. node	9742 May 15	15:08	5°♉30'39	
	9742 Jun 03	13:05	0°♊	
morning set	9742 Jun 20	01:55	26°♊19'55	
	9742 Jun 22	04:48	0°♋	
max. Earth dist.	9742 Jun 23	20:37	2°♋55'12	1.38470 AU
superior conj	9742 Jul 01	04:53	16°♋23'43	-1°06'03
minimum elong	9742 Jul 01	09:11	16°♋44'07	1°05'43
asc. node	9742 Jul 08	10:36	0°♌25'19	
	9742 Jul 08	05:27	0°♌	
evening rise	9742 Jul 10	05:10	3°♌54'16	
	9742 Jul 26	02:09	0°♍	
evening max el	9742 Jul 26	13:23	0°♍28'33	18°55'28
retrograde	9742 Aug 04	03:38	4°♍45'04	
evening set	9742 Aug 06	01:45	4°♍33'04	
desc. node	9742 Aug 11	14:07	2°♍06'33	
inferior conj	9742 Aug 14	07:38	0°♍15'40	-0°50'35
minimum elong	9742 Aug 14	05:29	0°♍19'27	0°49'57
	9742 Aug 14	16:28	30°℞♌	
min. Earth dist.	9742 Aug 17	07:57	28°♌08'37	0.56576 AU
morning rise	9742 Aug 22	06:00	25°♌20'55	
direct	9742 Aug 27	17:21	24°♌09'43	
	9742 Sep 09	07:47	0°♍	
morning max el	9742 Sep 10	23:14	1°♍30'20	26°06'28
	9742 Oct 01	01:12	0°♎	
asc. node	9742 Oct 04	10:42	6°♎29'18	
morning set	9742 Oct 09	04:51	16°♎17'00	
	9742 Oct 15	11:10	0°♏	
superior conj	9742 Oct 16	01:25	1°♏19'03	1°32'55
minimum elong	9742 Oct 15	23:51	1°♏10'19	1°32'57
max. Earth dist.	9742 Oct 16	21:37	3°♏10'49	1.31836 AU
evening rise	9742 Oct 23	00:35	16°♏25'47	
	9742 Oct 29	20:27	0°♐	
desc. node	9742 Nov 07	12:18	14°♐56'02	
	9742 Nov 18	09:48	0°♑	
evening max el	9742 Nov 23	17:19	5°♑39'48	27°18'16
retrograde	9742 Dec 07	13:58	12°♑53'04	
evening set	9742 Dec 14	14:43	10°♑38'12	
min. Earth dist.	9742 Dec 18	07:47	7°♑50'16	0.61421 AU
inferior conj	9742 Dec 21	09:07	5°♑07'54	-3°12'13
minimum elong	9742 Dec 21	15:24	4°♑53'55	3°09'36
morning rise	9742 Dec 28	18:32	0°♑10'46	
	9742 Dec 29	11:18	30°℞♐	
direct	9742 Dec 30	23:14	29°♐50'29	
asc. node	9742 Dec 31	10:24	29°♐51'25	
	9743 Jan 01	10:44	0°♑	
morning max el	9743 Jan 06	23:45	3°♑22'51	17°53'02
morning set	9743 Jan 22	15:50	27°♑54'27	
	9743 Jan 23	19:30	0°♒	
superior conj	9743 Feb 02	07:32	16°♒53'13	0°08'50
minimum elong	9743 Feb 02	08:20	16°♒56'40	0°08'59
behind sun begin	9743 Feb 02	01:21	16°♒26'28	
behind sun end	9743 Feb 02	15:20	17°♒26'49	
desc. node	9743 Feb 03	11:38	18°♒53'59	
max. Earth dist.	9743 Feb 09	17:17	29°♒20'17	1.42963 AU
	9743 Feb 10	03:00	0°♓	
evening rise	9743 Feb 16	05:18	9°♓45'47	
	9743 Mar 01	14:27	0°♈	
evening max el	9743 Mar 20	06:50	24°♈19'21	21°58'15
asc. node	9743 Mar 29	08:54	29°♈50'57	
retrograde	9743 Mar 29	15:15	29°♈51'17	
evening set	9743 Apr 03	04:13	28°♈00'09	
inferior conj	9743 Apr 08	11:34	21°♈40'36	2°45'25
minimum elong	9743 Apr 08	09:33	21°♈47'39	2°44'51
min. Earth dist.	9743 Apr 08	11:54	21°♈39'27	0.68527 AU
morning rise	9743 Apr 13	14:44	15°♈28'49	
direct	9743 Apr 18	11:39	13°♈23'46	
morning max el	9743 Apr 28	02:55	19°♈04'02	22°25'38
desc. node	9743 May 02	12:02	23°♈55'41	
	9743 May 07	06:56	0°♉	
	9743 May 27	16:53	0°♊	
morning set	9743 May 31	18:29	6°♊31'52	
max. Earth dist.	9743 Jun 05	18:42	14°♊50'30	1.40734 AU
superior conj	9743 Jun 13	13:39	28°♊24'51	-1°36'57
minimum elong	9743 Jun 13	19:41	28°♊51'56	1°36'36
	9743 Jun 14	10:48	0°♋	
evening rise	9743 Jun 23	18:21	17°♋16'12	
asc. node	9743 Jun 25	07:36	20°♋10'52	
	9743 Jun 30	17:00	0°♌	
evening max el	9743 Jul 09	19:17	12°♌56'49	18°20'30
retrograde	9743 Jul 17	04:42	16°♌39'44	
evening set	9743 Jul 19	09:21	16°♌20'54	
inferior conj	9743 Jul 26	19:39	11°♌43'23	0°47'17
minimum elong	9743 Jul 26	21:14	11°♌40'06	0°46'24
desc. node	9743 Jul 29	11:18	9°♌31'27	
min. Earth dist.	9743 Jul 30	04:30	8°♌57'07	0.58562 AU
morning rise	9743 Aug 03	05:41	6°♌13'06	
direct	9743 Aug 09	09:34	4°♌32'10	
morning max el	9743 Aug 23	18:51	12°♌16'28	27°17'55
	9743 Sep 06	17:15	0°♍	
asc. node	9743 Sep 21	07:34	26°♍10'26	
	9743 Sep 23	03:51	0°♎	
morning set	9743 Sep 23	13:18	0°♎49'46	

superior conj	9743 Sep 30 13:13	16°♎06'37	1°20'58
minimum elong	9743 Sep 30 11:06	15°♎54'49	1°20'46
max. Earth dist.	9743 Sep 30 07:13	15°♎33'15	1.31523 AU
	9743 Oct 06 20:50	0°♏	
evening rise	9743 Oct 07 07:36	0°♏57'30	
	9743 Oct 22 22:49	0°♐	
desc. node	9743 Oct 25 09:26	3°♐40'43	
evening max el	9743 Nov 05 18:32	17°♐27'54	26°32'28
retrograde	9743 Nov 19 16:43	24°♐34'47	
evening set	9743 Nov 26 09:00	22°♐44'24	
min. Earth dist.	9743 Nov 30 08:11	20°♐09'04	0.59310 AU
inferior conj	9743 Dec 03 12:39	17°♐41'19	-4°23'07
minimum elong	9743 Dec 03 20:24	17°♐26'18	4°20'39
morning rise	9743 Dec 11 10:23	13°♐05'59	
direct	9743 Dec 13 14:28	12°♐49'16	
asc. node	9743 Dec 18 07:26	14°♐12'37	
morning max el	9743 Dec 21 10:45	16°♐40'41	18°17'58
	9743 Dec 30 20:02	0°♑	
morning set	9744 Jan 06 05:42	11°♑50'13	
superior conj	9744 Jan 15 12:59	29°♑17'15	0°43'21
minimum elong	9744 Jan 15 15:52	29°♑30'20	0°43'16
	9744 Jan 15 22:23	0°♒	
desc. node	9744 Jan 21 08:32	9°♒37'20	
max. Earth dist.	9744 Jan 23 02:59	12°♒39'37	1.40990 AU
evening rise	9744 Jan 27 18:09	20°♒23'41	
	9744 Feb 02 18:32	0°♓	
	9744 Feb 23 20:38	0°♈	
evening max el	9744 Mar 01 22:21	8°♈04'10	23°17'58
retrograde	9744 Mar 12 10:32	14°♈16'59	
asc. node	9744 Mar 15 06:03	13°♈38'35	
evening set	9744 Mar 17 10:56	12°♈11'29	
inferior conj	9744 Mar 22 20:27	5°♈44'51	2°14'12
minimum elong	9744 Mar 22 18:14	5°♈52'29	2°13'32
min. Earth dist.	9744 Mar 22 08:42	6°♈25'23	0.68501 AU
	9744 Mar 27 15:24	30°℞♓	
morning rise	9744 Mar 28 01:29	29°♓38'43	
direct	9744 Apr 01 08:50	27°♓55'30	
	9744 Apr 06 14:44	0°♈	
morning max el	9744 Apr 09 19:07	2°♈46'16	21°02'27
desc. node	9744 Apr 18 08:54	13°♈04'34	
	9744 Apr 30 04:43	0°♉	
morning set	9744 May 10 08:42	15°♉33'00	
max. Earth dist.	9744 May 17 22:21	27°♉38'05	1.42793 AU
	9744 May 19 09:03	0°♊	
superior conj	9744 May 25 00:58	9°♊27'42	-2°01'12
minimum elong	9744 May 25 06:31	9°♊51'19	2°01'10
evening rise	9744 Jun 05 17:21	29°♊57'07	
	9744 Jun 05 18:00	0°♋	
asc. node	9744 Jun 11 04:37	9°♋40'33	
evening max el	9744 Jun 22 06:52	25°♋55'19	18°05'30
retrograde	9744 Jun 28 22:44	29°♋19'41	
evening set	9744 Jul 01 11:12	28°♋50'30	
inferior conj	9744 Jul 08 04:00	23°♋53'05	1°58'59
minimum elong	9744 Jul 08 06:51	23°♋46'14	1°57'47
min. Earth dist.	9744 Jul 11 08:55	20°♋49'55	0.60814 AU
morning rise	9744 Jul 14 23:51	17°♋57'05	
desc. node	9744 Jul 15 08:25	17°♋43'27	
direct	9744 Jul 21 14:21	15°♋46'39	
morning max el	9744 Aug 04 21:16	23°♋45'17	27°53'18
	9744 Aug 10 12:00	0°♌	
	9744 Aug 29 24:00	0°♍	
morning set	9744 Sep 06 17:21	15°♍07'00	
asc. node	9744 Sep 07 04:26	16°♍04'35	
max. Earth dist.	9744 Sep 12 15:46	27°♍49'43	1.31689 AU
	9744 Sep 13 15:25	0°♎	

superior conj	9744 Sep 14 00:05	0°♎47'51	1°03'50
minimum elong	9744 Sep 13 21:52	0°♎35'35	1°03'27
evening rise	9744 Sep 20 17:48	15°♎35'49	
	9744 Sep 27 19:45	0°♏	
desc. node	9744 Oct 11 06:36	21°♏28'07	
evening max el	9744 Oct 17 11:42	28°♏25'13	25°15'53
	9744 Oct 19 05:45	0°♐	
retrograde	9744 Oct 31 08:54	5°♐24'39	
evening set	9744 Nov 06 04:45	4°♐07'11	
min. Earth dist.	9744 Nov 10 23:43	1°♐27'07	0.57301 AU
	9744 Nov 13 03:43	30°℞♏	
inferior conj	9744 Nov 13 20:49	29°♏31'00	-5°19'24
minimum elong	9744 Nov 14 02:54	29°♏20'44	5°18'10
morning rise	9744 Nov 22 03:22	25°♏18'03	
direct	9744 Nov 24 12:06	25°♏01'34	
morning max el	9744 Dec 03 12:53	29°♏21'39	19°04'08
asc. node	9744 Dec 04 04:26	0°♐00'16	
	9744 Dec 04 04:20	0°♐	
morning set	9744 Dec 20 05:11	26°♐11'29	
	9744 Dec 22 03:17	0°♑	
superior conj	9744 Dec 28 12:44	12°♑32'29	1°09'28
minimum elong	9744 Dec 28 15:53	12°♑47'35	1°09'27
max. Earth dist.	9745 Jan 04 09:02	25°♑16'14	1.38811 AU
desc. node	9745 Jan 07 05:26	0°♒18'27	
	9745 Jan 07 01:12	0°♒	
evening rise	9745 Jan 08 04:40	1°♒59'01	
	9745 Jan 26 00:10	0°♓	
evening max el	9745 Feb 12 11:58	21°♓52'19	24°37'21
retrograde	9745 Feb 24 02:01	28°♓38'18	
evening set	9745 Mar 01 14:37	26°♓20'05	
asc. node	9745 Mar 02 03:13	25°♓52'03	
min. Earth dist.	9745 Mar 06 04:22	21°♓08'46	0.68064 AU
inferior conj	9745 Mar 07 03:48	19°♓50'41	1°33'57
minimum elong	9745 Mar 07 01:52	19°♓57'07	1°33'21
morning rise	9745 Mar 12 13:16	13°♓51'36	
direct	9745 Mar 16 07:50	12°♓29'58	
morning max el	9745 Mar 23 18:44	16°♓40'07	19°51'15
	9745 Apr 03 07:55	0°♈	
desc. node	9745 Apr 05 05:44	2°♈45'04	
greatest brilliancy	9745 Apr 05 22:30	3°♈46'12	-0.6m
morning set	9745 Apr 19 07:22	23°♈56'22	
	9745 Apr 23 05:22	0°♉	
max. Earth dist.	9745 Apr 30 09:06	11°♉14'44	1.44400 AU
superior conj	9745 May 05 11:51	19°♉27'11	-2°12'33
minimum elong	9745 May 05 12:49	19°♉31'05	2°12'49
	9745 May 11 21:56	0°♊	
evening rise	9745 May 18 21:19	11°♊45'45	
asc. node	9745 May 29 01:39	28°♊47'57	
	9745 May 29 20:04	0°♋	
evening max el	9745 Jun 05 20:30	9°♋14'07	18°09'28
retrograde	9745 Jun 12 05:27	12°♋34'52	
evening set	9745 Jun 15 01:42	11°♋52'49	
inferior conj	9745 Jun 21 04:47	6°♋36'44	2°45'26
minimum elong	9745 Jun 21 07:16	6°♋29'59	2°44'33
min. Earth dist.	9745 Jun 23 22:12	3°♋40'04	0.63028 AU
morning rise	9745 Jun 27 11:11	0°♋25'41	
	9745 Jun 28 01:22	30°℞♊	
desc. node	9745 Jul 02 05:31	28°♊05'46	
direct	9745 Jul 04 04:52	27°♊53'06	
	9745 Jul 10 21:47	0°♋	
morning max el	9745 Jul 18 04:44	5°♋55'54	27°50'26
	9745 Aug 05 10:36	0°♌	
morning set	9745 Aug 21 14:52	29°♌02'30	
	9745 Aug 22 02:16	0°♍	
asc. node	9745 Aug 25 01:19	6°♍06'36	

max. Earth dist.	9745 Aug 26	19:29	9°♍49'50	1.32342 AU
superior conj	9745 Aug 29	08:10	15°♍16'55	0°41'50
minimum elong	9745 Aug 29	06:22	15°♍07'10	0°41'22
evening rise	9745 Sep 05	05:18	0°♎15'04	
	9745 Sep 05	02:29	0°♎	
	9745 Sep 21	14:35	0°♏	
desc. node	9745 Sep 28	03:46	7°♏56'21	
evening max el	9745 Sep 28	23:11	8°♏44'28	23°39'40
retrograde	9745 Oct 12	12:20	15°♏30'26	
evening set	9745 Oct 17	00:09	14°♏46'28	
min. Earth dist.	9745 Oct 23	09:25	11°♏43'28	0.55684 AU
inferior conj	9745 Oct 25	08:49	10°♏32'53	-5°42'11
minimum elong	9745 Oct 25	08:36	10°♏33'13	5°41'56
morning rise	9745 Nov 02	18:58	6°♏38'38	
direct	9745 Nov 05	14:44	6°♏18'50	
morning max el	9745 Nov 16	02:46	11°♏16'20	20°12'54
asc. node	9745 Nov 21	01:25	16°♏59'28	
	9745 Nov 28	23:38	0°♐	
morning set	9745 Dec 04	11:03	10°♐49'21	
superior conj	9745 Dec 12	02:05	26°♐26'01	1°27'13
minimum elong	9745 Dec 12	04:29	26°♐38'03	1°27'22
	9745 Dec 13	20:55	0°♑	
max. Earth dist.	9745 Dec 17	16:01	7°♑22'27	1.36675 AU
evening rise	9745 Dec 21	11:21	14°♑27'07	
desc. node	9745 Dec 25	02:24	20°♑53'48	
	9745 Dec 30	12:26	0°♒	
	9746 Jan 20	18:29	0°♓	
evening max el	9746 Jan 26	01:23	5°♓41'49	25°49'17
retrograde	9746 Feb 07	12:46	12°♓49'53	
evening set	9746 Feb 13	13:40	10°♓21'36	
asc. node	9746 Feb 17	00:22	6°♓47'13	
min. Earth dist.	9746 Feb 17	20:38	5°♓45'07	0.67231 AU
inferior conj	9746 Feb 19	07:44	3°♓54'23	0°44'53
minimum elong	9746 Feb 19	06:38	3°♓57'52	0°44'38
	9746 Feb 22	16:01	30°℞♒	
morning rise	9746 Feb 25	00:08	28°♒04'18	
direct	9746 Feb 28	07:09	27°♒02'16	
	9746 Mar 06	07:24	0°♓	
morning max el	9746 Mar 07	02:05	0°♓44'08	18°55'11
desc. node	9746 Mar 23	02:34	22°♓48'48	
	9746 Mar 27	17:59	0°♈	
morning set	9746 Mar 29	13:52	2°♈50'33	
max. Earth dist.	9746 Apr 13	01:56	25°♈28'08	1.45371 AU
superior conj	9746 Apr 15	01:30	28°♈34'58	-2°05'08
minimum elong	9746 Apr 14	19:12	28°♈10'09	2°04'59
	9746 Apr 15	23:06	0°♉	
evening rise	9746 Apr 30	02:21	22°♉35'59	
	9746 May 04	15:44	0°♊	
asc. node	9746 May 15	22:44	17°♊25'57	
evening max el	9746 May 20	09:07	22°♊45'43	18°31'37
retrograde	9746 May 26	20:44	26°♊16'47	
evening set	9746 May 30	00:42	25°♊20'26	
inferior conj	9746 Jun 04	18:01	19°♊47'13	3°10'54
minimum elong	9746 Jun 04	19:24	19°♊43'03	3°10'24
min. Earth dist.	9746 Jun 06	20:41	17°♊15'40	0.64983 AU
morning rise	9746 Jun 10	13:14	13°♊29'02	
direct	9746 Jun 17	03:20	10°♊45'23	
desc. node	9746 Jun 19	02:35	10°♊58'21	
morning max el	9746 Jun 30	14:58	18°♊41'07	27°12'55
	9746 Jul 10	04:07	0°♋	
	9746 Jul 29	10:02	0°♌	
morning set	9746 Aug 05	03:08	12°♌28'44	
max. Earth dist.	9746 Aug 09	14:53	21°♌25'57	1.33499 AU
asc. node	9746 Aug 11	22:12	26°♌12'00	
superior conj	9746 Aug 13	11:22	29°♌27'26	0°15'23
minimum elong	9746 Aug 13	10:35	29°♌23'21	0°15'01
behind sun begin	9746 Aug 13	08:37	29°♌12'54	
behind sun end	9746 Aug 13	12:34	29°♌33'49	
	9746 Aug 13	17:31	0°♍	
evening rise	9746 Aug 20	16:12	14°♍49'14	
	9746 Aug 28	06:39	0°♎	
evening max el	9746 Sep 10	12:18	18°♎54'56	22°00'23
desc. node	9746 Sep 15	00:59	22°♎36'08	
retrograde	9746 Sep 23	04:11	25°♎12'59	
evening set	9746 Sep 26	04:57	24°♎52'28	
min. Earth dist.	9746 Oct 04	16:48	21°♎10'16	0.54760 AU
inferior conj	9746 Oct 05	05:06	20°♎53'03	-5°12'29
minimum elong	9746 Oct 04	21:19	21°♎03'57	5°11'02
morning rise	9746 Oct 13	15:08	17°♎05'39	
direct	9746 Oct 17	02:19	16°♎39'10	
morning max el	9746 Oct 29	03:13	22°♎20'07	21°43'12
	9746 Nov 04	16:21	0°♏	
asc. node	9746 Nov 07	22:22	4°♏53'46	
morning set	9746 Nov 18	20:46	25°♏35'35	
	9746 Nov 20	22:57	0°♐	
superior conj	9746 Nov 26	01:04	10°♐45'41	1°37'16
minimum elong	9746 Nov 26	02:16	10°♐52'01	1°37'33
max. Earth dist.	9746 Nov 30	04:22	19°♐16'20	1.34782 AU
evening rise	9746 Dec 04	10:31	27°♐37'39	
	9746 Dec 05	16:35	0°♑	
desc. node	9746 Dec 11	23:25	11°♑18'08	
	9746 Dec 23	19:31	0°♒	
evening max el	9747 Jan 08	14:50	19°♒24'49	26°46'34
retrograde	9747 Jan 21	17:58	26°♒44'20	
evening set	9747 Jan 28	06:15	24°♒10'09	
min. Earth dist.	9747 Feb 01	07:15	20°♒08'08	0.66016 AU
inferior conj	9747 Feb 03	06:09	17°♒50'51	-0°12'46
minimum elong	9747 Feb 03	06:30	17°♒49'50	0°12'20
transit middle	9747 Feb 03	06:30	17°♒49'50	0°12'20
transit begin	9747 Feb 03	04:37	17°♒55'21	
transit end	9747 Feb 03	08:23	17°♒44'19	
asc. node	9747 Feb 03	21:32	17°♒05'58	
morning rise	9747 Feb 09	07:50	12°♒11'59	
direct	9747 Feb 12	04:44	11°♒26'30	
morning max el	9747 Feb 18	15:36	14°♒52'33	18°15'32
	9747 Mar 01	17:53	0°♓	
morning set	9747 Mar 09	22:17	13°♓04'27	
desc. node	9747 Mar 09	23:24	13°♓08'56	
	9747 Mar 20	13:09	0°♈	
superior conj	9747 Mar 25	07:13	7°♈28'28	-1°37'56
minimum elong	9747 Mar 24	21:39	6°♈50'58	1°37'01
max. Earth dist.	9747 Mar 26	21:41	9°♈59'04	1.45601 AU
	9747 Apr 08	17:22	0°♉	
evening rise	9747 Apr 10	08:17	2°♉31'55	
greatest brilliancy	9747 Apr 21	13:28	19°♉56'24	-0.8m
	9747 Apr 28	11:03	0°♊	
asc. node	9747 May 02	19:52	5°♊25'09	
evening max el	9747 May 03	18:18	6°♊24'05	19°11'09
retrograde	9747 May 10	17:05	10°♊18'11	
evening set	9747 May 14	05:05	9°♊06'47	
inferior conj	9747 May 19	16:09	3°♊18'06	3°19'42
minimum elong	9747 May 19	16:18	3°♊17'38	3°19'23
min. Earth dist.	9747 May 21	03:38	1°♊23'37	0.66547 AU
	9747 May 22	06:31	30°℞♉	
morning rise	9747 May 25	03:03	26°♉58'09	
direct	9747 May 31	08:40	24°♉14'37	
desc. node	9747 Jun 05	23:36	26°♉00'42	
	9747 Jun 11	04:22	0°♊	
morning max el	9747 Jun 13	01:39	1°♊49'49	26°08'23

	9747 Jul 04	06:36	0°♋		
morning set	9747 Jul 19	02:41	25°♋17'20		
	9747 Jul 21	14:45	0°♌		
max. Earth dist.	9747 Jul 22	23:52	2°♌39'18	1.35140 AU	
superior conj	9747 Jul 28	07:13	13°♌13'23	-0°14'44	
minimum elong	9747 Jul 28	08:06	13°♌17'49	0°14'52	
behind sun begin	9747 Jul 28	05:46	13°♌05'58		
behind sun end	9747 Jul 28	10:25	13°♌29'41		
asc. node	9747 Jul 29	19:07	16°♌17'21		
evening rise	9747 Aug 05	00:32	29°♌13'01		
	9747 Aug 05	09:39	0°♍		
evening max el	9747 Aug 23	11:45	29°♍32'33	20°32'57	
	9747 Aug 23	23:04	0°♎		
desc. node	9747 Sep 01	22:13	4°♎57'38		
retrograde	9747 Sep 03	16:22	5°♎05'35		
evening set	9747 Sep 05	18:08	4°♎54'57		
inferior conj	9747 Sep 14	21:44	0°♎58'06	-3°48'44	
minimum elong	9747 Sep 14	12:15	1°♎11'48	3°45'47	
min. Earth dist.	9747 Sep 16	01:34	0°♎17'51	0.54748 AU	
	9747 Sep 16	14:02	30°℞♍		
morning rise	9747 Sep 23	06:01	26°♍56'36		
direct	9747 Sep 27	10:38	26°♍18'53		
	9747 Oct 07	10:42	0°♎		
morning max el	9747 Oct 10	17:51	2°♎44'30	23°27'52	
asc. node	9747 Oct 25	19:19	23°♎30'13		
	9747 Oct 29	06:24	0°♏		
morning set	9747 Nov 03	08:19	10°♏24'24		
superior conj	9747 Nov 10	06:34	25°♏22'22	1°40'25	
minimum elong	9747 Nov 10	06:33	25°♏22'14	1°40'42	
	9747 Nov 12	10:24	0°♐		
max. Earth dist.	9747 Nov 13	00:27	1°♐14'25	1.33274 AU	
evening rise	9747 Nov 17	22:29	11°♐21'25		
	9747 Nov 28	00:13	0°♑		
desc. node	9747 Nov 28	20:28	1°♑25'51		
	9747 Dec 19	07:57	0°♒		
evening max el	9747 Dec 22	03:33	2°♒51'25	27°22'02	
retrograde	9748 Jan 04	17:08	10°♒13'30		
evening set	9748 Jan 11	14:08	7°♒39'53		
min. Earth dist.	9748 Jan 15	10:05	4°♒10'34	0.64446 AU	
inferior conj	9748 Jan 17	20:36	1°♒34'34	-1°18'17	
minimum elong	9748 Jan 17	23:01	1°♒28'07	1°16'56	
	9748 Jan 19	08:44	30°℞♑		
asc. node	9748 Jan 21	18:42	27°♑47'12		
morning rise	9748 Jan 24	09:38	26°♑09'36		
direct	9748 Jan 26	22:15	25°♑36'56		
morning max el	9748 Feb 02	08:35	28°♑58'11	17°52'49	
	9748 Feb 03	08:20	0°♒		
morning set	9748 Feb 19	11:39	24°♒43'23		
	9748 Feb 22	15:12	0°♓		
desc. node	9748 Feb 24	20:13	3°♓40'36		
superior conj	9748 Mar 03	23:46	16°♓58'10	-0°57'38	
minimum elong	9748 Mar 03	17:21	16°♓32'24	0°56'40	
max. Earth dist.	9748 Mar 08	17:01	24°♓28'35	1.45090 AU	
	9748 Mar 12	05:29	0°♈		
evening rise	9748 Mar 19	22:19	11°♈54'59		
	9748 Mar 31	20:59	0°♉		
greatest brilliancy	9748 Apr 03	21:46	4°♉27'33	-0.6m	
evening max el	9748 Apr 15	22:21	20°♉04'38	20°06'29	
asc. node	9748 Apr 18	17:03	22°♉32'47		
retrograde	9748 Apr 23	15:36	24°♉32'10		
evening set	9748 Apr 27	12:24	23°♉05'26		
inferior conj	9748 May 02	20:11	17°♉03'05	3°15'04	
minimum elong	9748 May 02	19:14	17°♉06'16	3°14'44	
min. Earth dist.	9748 May 03	17:16	15°♉51'35	0.67671 AU	
morning rise	9748 May 08	01:48	10°♉44'42		
direct	9748 May 13	19:51	8°♉10'53		
desc. node	9748 May 22	20:34	12°♉41'28		
morning max el	9748 May 25	11:18	15°♉10'04	24°46'13	
	9748 Jun 06	15:09	0°♊		
	9748 Jun 26	04:07	0°♋		
morning set	9748 Jun 30	08:56	7°♋15'31		
max. Earth dist.	9748 Jul 03	23:28	13°♋44'20	1.37180 AU	
superior conj	9748 Jul 10	16:35	26°♋26'10	-0°47'12	
minimum elong	9748 Jul 10	19:36	26°♋40'50	0°47'00	
	9748 Jul 12	12:09	0°♌		
asc. node	9748 Jul 15	16:03	6°♌18'14		
evening rise	9748 Jul 19	03:49	13°♌18'58		
	9748 Jul 28	00:12	0°♍		
evening max el	9748 Aug 05	00:56	10°♍55'16	19°24'57	
retrograde	9748 Aug 14	12:39	15°♍37'26		
evening set	9748 Aug 16	08:48	15°♍27'35		
desc. node	9748 Aug 18	19:26	14°♍46'23		
inferior conj	9748 Aug 25	01:10	11°♍20'45	-1°55'41	
minimum elong	9748 Aug 24	19:59	11°♍29'09	1°53'50	
min. Earth dist.	9748 Aug 27	13:43	9°♍42'57	0.55679 AU	
morning rise	9748 Sep 02	04:33	6°♍47'15		
direct	9748 Sep 07	04:46	5°♍50'25		
morning max el	9748 Sep 21	05:40	12°♍54'34	25°12'48	
	9748 Oct 04	12:25	0°♎		
asc. node	9748 Oct 11	16:13	12°♎38'07		
morning set	9748 Oct 17	19:57	25°♎10'40		
	9748 Oct 20	01:30	0°♏		
superior conj	9748 Oct 24	16:07	10°♏08'25	1°37'19	
minimum elong	9748 Oct 24	15:01	10°♏02'24	1°37'29	
max. Earth dist.	9748 Oct 26	03:55	13°♏24'53	1.32219 AU	
evening rise	9748 Oct 31	19:58	25°♏29'53		
	9748 Nov 03	01:11	0°♐		
desc. node	9748 Nov 14	17:35	21°♐09'47		
	9748 Nov 20	11:52	0°♑		
evening max el	9748 Dec 03	13:58	15°♑50'08	27°29'12	
retrograde	9748 Dec 17	09:24	23°♑08'04		
evening set	9748 Dec 24	10:29	20°♑43'40		
min. Earth dist.	9748 Dec 28	03:28	17°♑42'42	0.62577 AU	
inferior conj	9748 Dec 31	00:13	14°♑58'46	-2°29'49	
minimum elong	9748 Dec 31	05:07	14°♑47'02	2°27'33	
morning rise	9749 Jan 07	02:03	9°♑50'28		
asc. node	9749 Jan 07	15:48	9°♑40'09		
direct	9749 Jan 09	08:39	9°♑26'48		
morning max el	9749 Jan 16	01:57	12°♑52'55	17°47'40	
	9749 Jan 27	18:03	0°♒		
morning set	9749 Feb 01	00:51	7°♒31'06		
desc. node	9749 Feb 10	17:04	24°♒19'59		
superior conj	9749 Feb 12	15:28	27°♒35'34	-0°14'25	
minimum elong	9749 Feb 12	14:03	27°♒29'37	0°13'58	
behind sun begin	9749 Feb 12	09:33	27°♒10'48		
behind sun end	9749 Feb 12	18:32	27°♒48'25		
	9749 Feb 14	02:05	0°♓		
max. Earth dist.	9749 Feb 19	09:49	8°♓42'11	1.43902 AU	
evening rise	9749 Feb 27	11:01	21°♓23'50		
	9749 Mar 05	02:09	0°♈		
	9749 Mar 26	11:01	0°♉		
evening max el	9749 Mar 29	20:54	3°♉46'59	21°14'45	
asc. node	9749 Apr 05	14:14	8°♉34'46		
retrograde	9749 Apr 07	14:04	8°♉54'31		
evening set	9749 Apr 11	20:46	7°♉12'23		
inferior conj	9749 Apr 17	03:42	0°♉58'30	2°59'09	
minimum elong	9749 Apr 17	01:58	1°♉04'31	2°58'41	
min. Earth dist.	9749 Apr 17	11:24	0°♉31'45	0.68347 AU	

	9749 Apr 17 20:34	30°℞♈	
morning rise	9749 Apr 22 06:57	24°♈43'49	
direct	9749 Apr 27 11:51	22°♈26'46	
morning max el	9749 May 07 20:55	28°♈37'14	23°16'37
	9749 May 09 04:42	0°♉	
desc. node	9749 May 09 17:28	0°♉34'40	
	9749 May 31 08:21	0°♊	
morning set	9749 Jun 11 16:34	18°♊09'36	
max. Earth dist.	9749 Jun 15 19:40	25°♊12'02	1.39445 AU
	9749 Jun 18 13:16	0°♋	
superior conj	9749 Jun 23 11:38	8°♋56'56	-1°19'39
minimum elong	9749 Jun 23 16:49	9°♋20'54	1°19'16
evening rise	9749 Jul 02 23:09	26°♋59'37	
asc. node	9749 Jul 02 13:01	26°♋10'48	
	9749 Jul 04 12:42	0°♌	
evening max el	9749 Jul 19 01:54	23°♌02'36	18°38'05
retrograde	9749 Jul 27 02:20	27°♌02'30	
evening set	9749 Jul 29 03:00	26°♌48'02	
desc. node	9749 Aug 05 16:36	22°♌37'33	
inferior conj	9749 Aug 06 00:33	22°♌22'35	-0°06'04
minimum elong	9749 Aug 06 00:18	22°♌23'03	0°06'14
transit middle	9749 Aug 06 00:18	22°♌23'03	0°06'14
transit begin	9749 Aug 05 20:57	22°♌29'23	
transit end	9749 Aug 06 03:39	22°♌16'42	
min. Earth dist.	9749 Aug 09 06:31	19°♌56'18	0.57374 AU
morning rise	9749 Aug 13 18:07	17°♌11'59	
direct	9749 Aug 19 13:23	15°♌48'14	
morning max el	9749 Sep 02 21:10	23°♌20'09	26°40'44
	9749 Sep 08 21:08	0°♍	
	9749 Sep 27 11:06	0°♎	
asc. node	9749 Sep 28 13:04	2°♎09'13	
morning set	9749 Oct 02 06:00	9°♎49'39	
superior conj	9749 Oct 09 03:36	24°♎57'11	1°28'29
minimum elong	9749 Oct 09 01:45	24°♎46'52	1°28'26
max. Earth dist.	9749 Oct 09 12:18	25°♎45'31	1.31643 AU
	9749 Oct 11 10:14	0°♏	
evening rise	9749 Oct 16 00:11	9°♏55'23	
	9749 Oct 26 08:07	0°♐	
desc. node	9749 Nov 01 14:44	10°♐19'53	
evening max el	9749 Nov 15 19:31	28°♐07'41	27°03'07
	9749 Nov 17 22:03	0°♑	
retrograde	9749 Nov 29 17:19	5°♑18'02	
evening set	9749 Dec 06 15:31	3°♑12'47	
min. Earth dist.	9749 Dec 10 10:10	0°♑31'41	0.60517 AU
	9749 Dec 11 01:40	30°℞♐	
inferior conj	9749 Dec 13 13:34	27°♐53'44	-3°43'13
minimum elong	9749 Dec 13 20:43	27°♐38'44	3°40'32
morning rise	9749 Dec 21 04:26	23°♐05'17	
direct	9749 Dec 23 08:17	22°♐46'55	
asc. node	9749 Dec 25 12:52	23°♐06'36	
morning max el	9749 Dec 30 16:14	26°♐26'39	18°01'10
	9750 Jan 02 18:15	0°♑	
morning set	9750 Jan 15 07:18	21°♑06'50	
	9750 Jan 20 02:53	0°♒	
superior conj	9750 Jan 25 08:03	9°♒23'07	0°24'26
minimum elong	9750 Jan 25 09:59	9°♒31'43	0°24'27
desc. node	9750 Jan 28 13:55	15°♒02'46	
max. Earth dist.	9750 Feb 01 22:31	22°♒25'21	1.42166 AU
	9750 Feb 06 13:46	0°♓	
evening rise	9750 Feb 07 12:34	1°♓31'15	
	9750 Feb 26 13:18	0°♈	
evening max el	9750 Mar 12 14:38	17°♈30'58	22°31'49
retrograde	9750 Mar 22 10:46	23°♈20'16	
asc. node	9750 Mar 23 11:24	23°♈15'04	
evening set	9750 Mar 27 04:30	21°♈23'01	
inferior conj	9750 Apr 01 12:36	15°♈00'17	2°33'18
minimum elong	9750 Apr 01 10:27	15°♈07'47	2°32'41
min. Earth dist.	9750 Apr 01 07:47	15°♈17'03	0.68576 AU
morning rise	9750 Apr 06 16:15	8°♈50'47	
direct	9750 Apr 11 07:28	6°♈54'40	
morning max el	9750 Apr 20 09:38	12°♈12'39	21°49'00
desc. node	9750 Apr 26 14:20	19°♈20'03	
	9750 May 04 11:44	0°♉	
morning set	9750 May 22 21:30	27°♉49'53	
	9750 May 24 05:55	0°♊	
max. Earth dist.	9750 May 28 19:51	7°♊29'52	1.41660 AU
superior conj	9750 Jun 05 11:51	20°♊35'02	-1°48'24
minimum elong	9750 Jun 05 18:05	21°♊02'19	1°48'09
	9750 Jun 10 18:34	0°♋	
evening rise	9750 Jun 16 06:50	10°♋05'39	
asc. node	9750 Jun 19 10:02	15°♋50'36	
	9750 Jun 27 19:17	0°♌	
evening max el	9750 Jul 02 10:44	5°♌45'32	18°11'43
retrograde	9750 Jul 09 11:06	9°♌18'25	
evening set	9750 Jul 11 19:11	8°♌55'24	
inferior conj	9750 Jul 18 21:36	4°♌09'04	1°21'01
minimum elong	9750 Jul 18 23:59	4°♌03'46	1°19'53
min. Earth dist.	9750 Jul 22 05:57	1°♌12'58	0.59513 AU
desc. node	9750 Jul 23 13:44	0°♌09'05	
	9750 Jul 23 18:30	30°℞♋	
morning rise	9750 Jul 26 01:42	28°♋26'51	
direct	9750 Aug 01 11:05	26°♋33'02	
	9750 Aug 10 15:32	0°♌	
morning max el	9750 Aug 15 19:36	4°♌23'34	27°37'43
	9750 Sep 03 17:04	0°♍	
asc. node	9750 Sep 15 09:55	21°♍56'57	
morning set	9750 Sep 16 12:48	24°♍16'54	
	9750 Sep 19 05:10	0°♎	
max. Earth dist.	9750 Sep 22 22:06	8°♎08'09	1.31539 AU
superior conj	9750 Sep 23 15:13	9°♎43'11	1°14'19
minimum elong	9750 Sep 23 13:00	9°♎30'50	1°14'02
evening rise	9750 Sep 30 08:50	24°♎31'25	
	9750 Oct 02 23:17	0°♏	
desc. node	9750 Oct 19 11:53	28°♏42'56	
	9750 Oct 20 10:24	0°♐	
evening max el	9750 Oct 28 17:33	9°♐34'48	26°03'14
retrograde	9750 Nov 11 15:22	16°♐37'53	
evening set	9750 Nov 18 00:42	15°♐00'53	
min. Earth dist.	9750 Nov 22 06:21	12°♐25'58	0.58431 AU
inferior conj	9750 Nov 25 09:12	10°♐09'57	-4°49'47
minimum elong	9750 Nov 25 16:46	9°♐56'08	4°47'44
morning rise	9750 Dec 03 11:13	5°♐44'01	
direct	9750 Dec 05 16:44	5°♐27'40	
asc. node	9750 Dec 12 09:52	8°♐06'19	
morning max el	9750 Dec 13 23:52	9°♐29'54	18°34'54
	9750 Dec 27 08:03	0°♑	
morning set	9750 Dec 30 01:44	5°♑15'03	
superior conj	9751 Jan 07 21:53	22°♑10'38	0°55'29
minimum elong	9751 Jan 08 01:03	22°♑25'23	0°55'24
	9751 Jan 12 04:31	0°♒	
desc. node	9751 Jan 15 10:50	5°♒45'38	
max. Earth dist.	9751 Jan 15 06:49	5°♒28'07	1.40078 AU
evening rise	9751 Jan 19 10:34	12°♒33'28	
	9751 Jan 30 09:47	0°♓	
	9751 Feb 21 22:58	0°♈	
evening max el	9751 Feb 23 05:10	1°♈17'23	23°52'09
retrograde	9751 Mar 06 04:26	7°♈44'53	
asc. node	9751 Mar 10 08:34	6°♈22'23	

evening set	9751 Mar 11 10:07	5°♈33'33	
min. Earth dist.	9751 Mar 16 04:15	0°♈02'32	0.68371 AU
	9751 Mar 16 04:59	30℞♓	
inferior conj	9751 Mar 16 21:02	29°♓05'21	1°58'11
minimum elong	9751 Mar 16 18:53	29°♓12'42	1°57'33
morning rise	9751 Mar 22 03:41	23°♓02'17	
direct	9751 Mar 26 05:31	21°♓28'25	
morning max el	9751 Apr 03 04:52	25°♓59'59	20°30'29
	9751 Apr 06 19:42	0°♈	
desc. node	9751 Apr 13 11:11	8°♈43'29	
	9751 Apr 27 21:47	0°♉	
morning set	9751 May 02 02:55	6°♉28'44	
max. Earth dist.	9751 May 11 03:13	20°♉42'16	1.43548 AU
	9751 May 16 19:49	0°♊	
superior conj	9751 May 17 12:55	1°♊10'59	-2°07'59
minimum elong	9751 May 17 17:05	1°♊28'18	2°08'08
evening rise	9751 May 29 22:22	22°♊26'06	
	9751 Jun 03 06:11	0°♋	
asc. node	9751 Jun 06 07:04	5°♋11'54	
evening max el	9751 Jun 15 23:33	18°♋53'41	18°04'50
retrograde	9751 Jun 22 11:16	22°♋15'00	
evening set	9751 Jun 25 03:02	21°♋40'33	
inferior conj	9751 Jul 01 13:29	16°♋34'41	2°21'33
minimum elong	9751 Jul 01 16:19	16°♋27'28	2°20'27
min. Earth dist.	9751 Jul 04 13:59	13°♋31'49	0.61773 AU
morning rise	9751 Jul 08 03:23	10°♋30'56	
desc. node	9751 Jul 10 10:51	9°♋10'13	
direct	9751 Jul 14 19:55	8°♋10'17	
morning max el	9751 Jul 29 00:39	16°♋11'43	27°56'46
	9751 Aug 09 08:49	0°♌	
	9751 Aug 27 08:38	0°♍	
morning set	9751 Aug 31 14:23	8°♍25'57	
asc. node	9751 Sep 02 06:47	11°♍55'08	
max. Earth dist.	9751 Sep 06 05:17	20°♍20'10	1.31910 AU
superior conj	9751 Sep 08 01:07	24°♍19'53	0°55'05
minimum elong	9751 Sep 07 23:01	24°♍08'18	0°54'38
	9751 Sep 10 14:52	0°♎	
evening rise	9751 Sep 14 19:49	9°♎10'55	
	9751 Sep 25 10:27	0°♏	
desc. node	9751 Oct 06 09:04	15°♏59'49	
evening max el	9751 Oct 10 07:29	20°♏12'22	24°36'17
retrograde	9751 Oct 24 02:11	27°♏07'34	
evening set	9751 Oct 29 09:51	26°♏04'33	
min. Earth dist.	9751 Nov 03 18:35	23°♏17'07	0.56550 AU
inferior conj	9751 Nov 06 08:33	21°♏38'47	-5°34'24
minimum elong	9751 Nov 06 12:30	21°♏32'29	5°33'46
morning rise	9751 Nov 14 17:21	17°♏35'04	
direct	9751 Nov 17 06:07	17°♏17'36	
morning max el	9751 Nov 26 21:07	21°♏52'04	19°30'42
asc. node	9751 Nov 29 06:50	24°♏26'08	
	9751 Dec 03 09:11	0°♐	
morning set	9751 Dec 14 04:15	19°♐44'13	
	9751 Dec 19 06:36	0°♑	
superior conj	9751 Dec 22 03:58	5°♑43'48	1°18'00
minimum elong	9751 Dec 22 06:53	5°♑58'04	1°18'02
max. Earth dist.	9751 Dec 28 12:38	17°♑49'41	1.37879 AU
evening rise	9752 Jan 01 05:58	24°♑31'41	
desc. node	9752 Jan 02 07:48	26°♑24'48	
	9752 Jan 04 09:49	0°♒	
	9752 Jan 24 02:13	0°♓	
evening max el	9752 Feb 05 18:22	15°♓05'58	25°09'16
retrograde	9752 Feb 17 18:08	22°♓03'14	
evening set	9752 Feb 23 12:05	19°♓40'00	
asc. node	9752 Feb 25 05:44	17°♓59'24	
min. Earth dist.	9752 Feb 27 22:42	14°♓43'43	0.67752 AU
inferior conj	9752 Feb 29 03:11	13°♓10'45	1°14'11
minimum elong	9752 Feb 29 01:32	13°♓16'09	1°13'43
morning rise	9752 Mar 05 15:20	7°♓15'30	
direct	9752 Mar 09 04:44	6°♓02'42	
morning max el	9752 Mar 16 08:01	9°♓59'24	19°25'32
greatest brilliancy	9752 Mar 29 02:01	26°♓43'18	-0.7m
desc. node	9752 Mar 30 08:01	28°♓34'52	
	9752 Mar 31 06:45	0°♈	
morning set	9752 Apr 10 02:01	14°♈57'29	
	9752 Apr 19 18:25	0°♉	
max. Earth dist.	9752 Apr 22 16:50	4°♉36'52	1.44890 AU
superior conj	9752 Apr 26 13:53	10°♉46'03	-2°11'57
minimum elong	9752 Apr 26 11:46	10°♉37'36	2°12'08
	9752 May 08 09:26	0°♊	
evening rise	9752 May 10 17:04	3°♊51'20	
asc. node	9752 May 23 04:09	24°♊08'31	
	9752 May 27 10:49	0°♋	
evening max el	9752 May 29 13:05	2°♋19'13	18°16'39
retrograde	9752 Jun 04 22:17	5°♋43'06	
evening set	9752 Jun 07 21:39	4°♋55'17	
	9752 Jun 13 10:09	30℞♊	
inferior conj	9752 Jun 13 20:08	29°♊31'43	2°58'29
minimum elong	9752 Jun 13 22:12	29°♊25'51	2°57'47
min. Earth dist.	9752 Jun 16 07:29	26°♊43'38	0.63896 AU
morning rise	9752 Jun 19 21:25	23°♊16'29	
desc. node	9752 Jun 26 07:55	20°♊37'55	
direct	9752 Jun 26 14:11	20°♊37'41	
morning max el	9752 Jul 10 09:54	28°♊39'53	27°38'18
	9752 Jul 11 16:52	0°♋	
	9752 Aug 02 05:08	0°♌	
morning set	9752 Aug 14 08:23	22°♌10'35	
	9752 Aug 18 04:48	0°♍	
max. Earth dist.	9752 Aug 19 05:51	2°♍10'49	1.32774 AU
asc. node	9752 Aug 19 03:41	1°♍59'27	
superior conj	9752 Aug 22 07:25	8°♍42'02	0°31'08
minimum elong	9752 Aug 22 05:59	8°♍34'18	0°30'40
evening rise	9752 Aug 29 07:19	23°♍48'44	
	9752 Sep 01 06:11	0°♎	
	9752 Sep 20 09:04	0°♏	
evening max el	9752 Sep 20 18:20	0°♏22'49	22°56'40
desc. node	9752 Sep 22 06:17	1°♏45'44	
retrograde	9752 Oct 04 00:46	6°♏59'50	
evening set	9752 Oct 07 20:52	6°♏27'39	
min. Earth dist.	9752 Oct 15 03:03	3°♏09'28	0.55189 AU
inferior conj	9752 Oct 16 12:50	2°♏20'51	-5°36'41
minimum elong	9752 Oct 16 09:07	2°♏26'13	5°36'13
	9752 Oct 20 21:24	30℞♎	
morning rise	9752 Oct 24 23:15	28°♎31'33	
direct	9752 Oct 28 00:54	28°♎09'32	
	9752 Nov 03 15:59	0°♏	
morning max el	9752 Nov 08 05:19	3°♏25'20	20°48'59
asc. node	9752 Nov 15 03:49	11°♏50'24	
	9752 Nov 25 07:58	0°♐	
morning set	9752 Nov 27 11:59	4°♐26'01	
superior conj	9752 Dec 04 21:50	19°♐49'40	1°32'22
minimum elong	9752 Dec 04 23:45	19°♐59'29	1°32'35
	9752 Dec 09 23:49	0°♑	
max. Earth dist.	9752 Dec 09 20:55	29°♐45'51	1.35823 AU
evening rise	9752 Dec 13 20:06	7°♑18'55	
desc. node	9752 Dec 19 04:47	16°♑56'02	
	9752 Dec 27 03:29	0°♒	
evening max el	9753 Jan 18 07:40	28°♒53'08	26°15'59
	9753 Jan 19 12:00	0°♓	

retrograde	9753 Jan 31 02:49	6°♓08'17	
evening set	9753 Feb 06 08:39	3°♓36'50	
	9753 Feb 09 21:49	30°℞♒	
min. Earth dist.	9753 Feb 10 12:54	29°♒15'00	0.66748 AU
asc. node	9753 Feb 11 02:55	28°♒32'23	
inferior conj	9753 Feb 12 05:03	27°♒11'56	0°21'26
minimum elong	9753 Feb 12 04:29	27°♒13'40	0°21'27
morning rise	9753 Feb 18 01:07	21°♒26'17	
direct	9753 Feb 21 03:31	20°♒31'53	
morning max el	9753 Feb 27 18:16	24°♒06'00	18°36'16
	9753 Mar 04 17:27	0°♓	
desc. node	9753 Mar 17 04:50	18°♓46'05	
morning set	9753 Mar 20 18:07	24°♓21'31	
	9753 Mar 24 08:11	0°♈	
superior conj	9753 Apr 05 21:59	19°♈41'54	-1°55'48
minimum elong	9753 Apr 05 13:26	19°♈08'27	1°55'17
max. Earth dist.	9753 Apr 05 10:38	18°♈57'29	1.45552 AU
	9753 Apr 12 11:35	0°♉	
evening rise	9753 Apr 21 11:51	14°♉16'25	
greatest brilliancy	9753 Apr 29 17:10	27°♉21'24	-0.8m
	9753 May 01 09:37	0°♊	
asc. node	9753 May 10 01:17	12°♊31'29	
evening max el	9753 May 13 00:32	15°♊54'24	18°46'26
retrograde	9753 May 19 16:01	19°♊33'51	
evening set	9753 May 22 23:17	18°♊31'18	
inferior conj	9753 May 28 13:34	12°♊51'37	3°16'26
minimum elong	9753 May 28 14:25	12°♊48'57	3°16'01
min. Earth dist.	9753 May 30 09:51	10°♊34'24	0.65700 AU
morning rise	9753 Jun 03 04:52	6°♊32'06	
direct	9753 Jun 09 15:57	3°♊46'48	
desc. node	9753 Jun 13 04:57	4°♊29'02	
morning max el	9753 Jun 22 20:27	11°♊36'08	26°48'09
	9753 Jul 07 12:09	0°♋	
	9753 Jul 25 18:53	0°♌	
morning set	9753 Jul 28 15:45	5°♌22'23	
max. Earth dist.	9753 Aug 01 20:38	13°♌35'05	1.34138 AU
superior conj	9753 Aug 06 07:52	22°♌43'22	0°03'01
minimum elong	9753 Aug 06 07:43	22°♌42'35	0°02'44
behind sun begin	9753 Aug 06 02:03	22°♌13'03	
behind sun end	9753 Aug 06 13:24	23°♌12'11	
asc. node	9753 Aug 06 00:37	22°♌05'37	
	9753 Aug 09 18:52	0°♍	
evening rise	9753 Aug 13 17:23	8°♍19'15	
	9753 Aug 25 04:41	0°♎	
evening max el	9753 Sep 02 11:15	10°♎42'30	21°21'11
desc. node	9753 Sep 09 03:29	15°♎30'37	
retrograde	9753 Sep 14 13:37	16°♎42'35	
evening set	9753 Sep 17 02:16	16°♎27'53	
inferior conj	9753 Sep 26 05:55	12°♎31'36	-4°42'40
minimum elong	9753 Sep 25 20:27	12°♎44'53	4°40'21
min. Earth dist.	9753 Sep 26 11:05	12°♎24'22	0.54637 AU
morning rise	9753 Oct 04 15:20	8°♎40'30	
direct	9753 Oct 08 09:47	8°♎09'48	
morning max el	9753 Oct 21 00:54	14°♎10'43	22°26'34
	9753 Nov 01 23:40	0°♏	
asc. node	9753 Nov 02 00:46	0°♏04'38	
morning set	9753 Nov 11 22:44	19°♏14'30	
	9753 Nov 16 23:35	0°♐	
superior conj	9753 Nov 18 23:58	4°♐18'10	1°39'23
minimum elong	9753 Nov 19 00:39	4°♐21'46	1°39'42
max. Earth dist.	9753 Nov 22 12:27	11°♐40'29	1.34090 AU
evening rise	9753 Nov 27 01:15	20°♐45'45	
	9753 Dec 01 23:06	0°♑	
desc. node	9753 Dec 06 01:50	7°♑14'38	
	9753 Dec 21 01:29	0°♒	
evening max el	9753 Dec 31 21:11	12°♒31'45	27°04'50
retrograde	9754 Jan 14 05:36	19°♒53'11	
evening set	9754 Jan 20 21:50	17°♒18'41	
min. Earth dist.	9754 Jan 24 20:38	13°♒30'34	0.65386 AU
inferior conj	9754 Jan 27 00:26	11°♒04'26	-0°39'37
minimum elong	9754 Jan 27 01:35	11°♒01'10	0°38'50
asc. node	9754 Jan 29 00:03	8°♒54'07	
morning rise	9754 Feb 02 06:41	5°♒30'48	
direct	9754 Feb 04 23:48	4°♒51'12	
morning max el	9754 Feb 11 09:33	8°♒14'10	18°03'42
	9754 Feb 26 10:39	0°♓	
morning set	9754 Mar 01 15:13	5°♓13'09	
desc. node	9754 Mar 04 01:41	9°♓11'52	
superior conj	9754 Mar 16 06:08	28°♓45'00	-1°21'50
minimum elong	9754 Mar 15 21:19	28°♓10'11	1°20'47
	9754 Mar 17 01:09	0°♈	
max. Earth dist.	9754 Mar 19 06:31	3°♈29'44	1.45477 AU
evening rise	9754 Apr 01 09:34	23°♈54'11	
	9754 Apr 05 08:24	0°♉	
greatest brilliancy	9754 Apr 14 13:45	14°♉02'13	-0.7m
evening max el	9754 Apr 26 07:46	29°♉34'17	19°32'57
asc. node	9754 Apr 26 22:26	0°♊10'20	
	9754 Apr 26 18:08	0°♊	
retrograde	9754 May 03 13:28	3°♊41'01	
evening set	9754 May 07 05:10	2°♊23'05	
	9754 May 09 18:46	30°℞♉	
inferior conj	9754 May 12 14:30	26°♉28'34	3°19'12
minimum elong	9754 May 12 14:10	26°♉29'41	3°18'53
min. Earth dist.	9754 May 13 19:46	24°♉51'53	0.67086 AU
morning rise	9754 May 17 22:49	20°♉09'12	
direct	9754 May 23 23:57	17°♉28'37	
desc. node	9754 May 31 01:57	20°♉16'28	
morning max el	9754 Jun 05 06:30	24°♉49'41	25°34'57
	9754 Jun 09 22:35	0°♊	
	9754 Jun 30 23:14	0°♋	
morning set	9754 Jul 11 08:32	17°♋50'51	
max. Earth dist.	9754 Jul 15 01:03	24°♋41'19	1.35968 AU
	9754 Jul 17 19:28	0°♌	
superior conj	9754 Jul 20 23:43	6°♌16'30	-0°28'19
minimum elong	9754 Jul 21 01:27	6°♌25'11	0°28'18
asc. node	9754 Jul 23 21:34	12°♌09'40	
evening rise	9754 Jul 28 23:53	22°♌36'23	
	9754 Aug 01 16:18	0°♍	
evening max el	9754 Aug 15 16:36	21°♍38'49	20°01'29
retrograde	9754 Aug 26 03:22	26°♍49'30	
desc. node	9754 Aug 27 00:42	26°♍47'23	
evening set	9754 Aug 28 01:13	26°♍39'53	
inferior conj	9754 Sep 06 01:31	22°♍40'17	-3°02'18
minimum elong	9754 Sep 05 17:25	22°♍52'27	2°59'31
min. Earth dist.	9754 Sep 07 20:49	21°♍35'18	0.55038 AU
morning rise	9754 Sep 14 08:19	18°♍27'10	
direct	9754 Sep 18 21:25	17°♍42'15	
morning max el	9754 Oct 02 13:11	24°♍24'42	24°13'27
	9754 Oct 07 16:20	0°♎	
asc. node	9754 Oct 19 21:41	18°♎55'52	
	9754 Oct 25 12:23	0°♏	
morning set	9754 Oct 27 10:32	4°♏03'06	
superior conj	9754 Nov 03 07:27	18°♏59'42	1°39'49
minimum elong	9754 Nov 03 06:57	18°♏56'56	1°40'05
max. Earth dist.	9754 Nov 05 12:12	23°♏45'11	1.32775 AU
	9754 Nov 08 10:56	0°♐	
evening rise	9754 Nov 10 17:39	4°♐41'21	
desc. node	9754 Nov 22 22:55	27°♐13'29	

	9754 Nov 24	15:36	0°♑		
evening max el	9754 Dec 14	09:22	25°♑48'41	27°28'52	
	9754 Dec 19	11:46	0°♒		
retrograde	9754 Dec 28	01:37	3°♒08'36		
evening set	9755 Jan 04	01:08	0°♒38'00		
	9755 Jan 04	21:14	30°℞♑		
min. Earth dist.	9755 Jan 07	19:37	27°♑21'24	0.63691 AU	
inferior conj	9755 Jan 10	10:39	24°♑40'53	-1°48'00	
minimum elong	9755 Jan 10	14:05	24°♑32'05	1°46'15	
asc. node	9755 Jan 15	21:09	20°♑01'10		
morning rise	9755 Jan 17	04:59	19°♑22'24		
direct	9755 Jan 19	14:51	18°♑53'53		
morning max el	9755 Jan 26	03:02	22°♑15'48	17°48'24	
	9755 Feb 01	03:55	0°♒		
morning set	9755 Feb 11	15:32	17°♒23'55		
desc. node	9755 Feb 18	22:31	29°♒47'16		
	9755 Feb 19	01:34	0°♓		
superior conj	9755 Feb 24	07:37	8°♓40'52	-0°39'07	
minimum elong	9755 Feb 24	03:23	8°♓23'35	0°38'20	
max. Earth dist.	9755 Mar 02	01:31	17°♓55'58	1.44668 AU	
	9755 Mar 09	18:26	0°♈		
evening rise	9755 Mar 11	21:06	3°♈15'01		
	9755 Mar 29	21:01	0°♉		
evening max el	9755 Apr 09	09:28	13°♉15'32	20°34'09	
asc. node	9755 Apr 13	19:34	16°♉51'54		
retrograde	9755 Apr 17	12:08	17°♉59'12		
evening set	9755 Apr 21	13:08	16°♉25'39		
inferior conj	9755 Apr 26	20:15	10°♉18'05	3°09'36	
minimum elong	9755 Apr 26	18:57	10°♉22'36	3°09'12	
min. Earth dist.	9755 Apr 27	11:27	9°♉25'54	0.68015 AU	
morning rise	9755 May 02	00:33	4°♉01'18		
direct	9755 May 07	13:07	1°♉34'09		
desc. node	9755 May 17	22:53	7°♉30'46		
morning max el	9755 May 18	15:55	8°♉13'07	24°08'32	
	9755 Jun 04	17:23	0°♊		
morning set	9755 Jun 23	05:51	29°♊23'24		
	9755 Jun 23	14:18	0°♋		
max. Earth dist.	9755 Jun 26	22:50	5°♋54'18	1.38130 AU	
superior conj	9755 Jul 04	03:32	19°♋12'49	-1°01'08	
minimum elong	9755 Jul 04	07:30	19°♋31'47	1°00'49	
	9755 Jul 09	16:38	0°♌		
asc. node	9755 Jul 10	18:31	2°♌07'46		
evening rise	9755 Jul 13	00:13	6°♌33'05		
	9755 Jul 26	12:44	0°♍		
evening max el	9755 Jul 29	11:08	3°♍21'05	19°02'26	
retrograde	9755 Aug 07	06:45	7°♍44'05		
evening set	9755 Aug 09	04:06	7°♍32'49		
desc. node	9755 Aug 13	21:52	5°♍38'41		
inferior conj	9755 Aug 17	12:50	3°♍18'14	-1°07'17	
minimum elong	9755 Aug 17	09:55	3°♍23'15	1°06'20	
min. Earth dist.	9755 Aug 20	10:33	1°♍18'25	0.56321 AU	
	9755 Aug 22	12:19	30°℞♌		
morning rise	9755 Aug 25	12:38	28°♌28'57		
direct	9755 Aug 30	21:05	27°♌21'49		
	9755 Sep 08	05:05	0°♍		
morning max el	9755 Sep 14	02:05	4°♍38'27	25°53'17	
	9755 Oct 02	09:03	0°♎		
asc. node	9755 Oct 06	18:35	8°♎14'45		
morning set	9755 Oct 11	21:43	18°♎47'06		
	9755 Oct 17	00:58	0°♏		
superior conj	9755 Oct 18	18:04	3°♏47'34	1°34'15	
minimum elong	9755 Oct 18	16:36	3°♏39'30	1°34'20	
max. Earth dist.	9755 Oct 19	18:17	6°♏01'25	1.31920 AU	
evening rise	9755 Oct 25	18:18	18°♏57'41		
	9755 Oct 31	06:36	0°♐		
desc. node	9755 Nov 09	20:01	16°♐44'21		
	9755 Nov 19	02:25	0°♑		
evening max el	9755 Nov 26	17:55	8°♑30'37	27°22'08	
retrograde	9755 Dec 10	14:19	15°♑45'16		
evening set	9755 Dec 17	15:26	13°♑27'29		
min. Earth dist.	9755 Dec 21	08:14	10°♑36'37	0.61726 AU	
inferior conj	9755 Dec 24	08:35	7°♑53'16	-3°01'06	
minimum elong	9755 Dec 24	14:32	7°♑39'48	2°58'33	
morning rise	9755 Dec 31	16:04	2°♑53'17		
direct	9756 Jan 02	21:09	2°♑32'14		
asc. node	9756 Jan 02	18:14	2°♑32'18		
morning max el	9756 Jan 09	19:32	6°♑02'39	17°51'04	
	9756 Jan 25	05:14	0°♒		
morning set	9756 Jan 25	12:44	0°♒33'47		
superior conj	9756 Feb 05	10:06	19°♒48'47	0°02'55	
minimum elong	9756 Feb 05	10:24	19°♒50'03	0°03'09	
behind sun begin	9756 Feb 05	02:00	19°♒14'01		
behind sun end	9756 Feb 05	18:48	20°♒26'00		
desc. node	9756 Feb 05	19:23	20°♒28'30		
	9756 Feb 11	11:53	0°♓		
max. Earth dist.	9756 Feb 12	16:52	1°♓58'37	1.43220 AU	
evening rise	9756 Feb 19	13:44	12°♓56'18		
	9756 Mar 01	19:33	0°♈		
evening max el	9756 Mar 22	05:38	26°♈57'26	21°46'44	
	9756 Mar 25	15:35	0°♉		
asc. node	9756 Mar 30	16:43	2°♉20'38		
retrograde	9756 Mar 31	10:06	2°♉23'14		
evening set	9756 Apr 04	21:24	0°♉34'25		
	9756 Apr 05	13:02	30°℞♈		
inferior conj	9756 Apr 10	04:34	24°♈16'08	2°49'21	
minimum elong	9756 Apr 10	02:37	24°♈22'57	2°48'49	
min. Earth dist.	9756 Apr 10	06:46	24°♈08'27	0.68493 AU	
morning rise	9756 Apr 15	07:40	18°♈03'30		
direct	9756 Apr 20	06:37	15°♈55'18		
morning max el	9756 Apr 30	02:34	21°♈43'39	22°38'41	
desc. node	9756 May 03	19:46	25°♈47'55		
	9756 May 07	05:52	0°♉		
	9756 May 28	00:12	0°♊		
morning set	9756 Jun 03	02:21	9°♊46'15		
max. Earth dist.	9756 Jun 07	20:06	17°♊41'16	1.40403 AU	
	9756 Jun 14	20:58	0°♋		
superior conj	9756 Jun 15	15:02	1°♋21'29	-1°32'35	
minimum elong	9756 Jun 15	20:54	1°♋48'02	1°32'13	
evening rise	9756 Jun 25	15:04	19°♋59'51		
asc. node	9756 Jun 26	15:28	21°♋55'07		
	9756 Jun 30	24:00	0°♌		
evening max el	9756 Jul 11	15:51	15°♌43'57	18°24'27	
retrograde	9756 Jul 19	04:52	19°♌30'51		
evening set	9756 Jul 21	08:23	19°♌13'18		
inferior conj	9756 Jul 28	21:34	14°♌39'02	0°34'03	
minimum elong	9756 Jul 28	22:45	14°♌36'38	0°33'19	
desc. node	9756 Jul 30	19:02	13°♌06'34		
min. Earth dist.	9756 Aug 01	06:08	11°♌57'11	0.58241 AU	
morning rise	9756 Aug 05	09:37	9°♌13'29		
direct	9756 Aug 11	11:26	7°♌36'58		
morning max el	9756 Aug 25	20:36	15°♌18'41	27°09'22	
	9756 Sep 06	18:14	0°♍		
asc. node	9756 Sep 22	15:27	27°♍53'25		
	9756 Sep 23	16:06	0°♎		
morning set	9756 Sep 25	06:37	3°♎21'35		
superior conj	9756 Oct 02	05:50	18°♎35'39	1°23'08	
minimum elong	9756 Oct 02	03:46	18°♎24'10	1°22'58	
max. Earth dist.	9756 Oct 02	03:36	18°♎23'19	1.31536 AU	

	9756 Oct 07 09:55	0°♏	
evening rise	9756 Oct 09 00:38	3°♏27'55	
	9756 Oct 23 02:21	0°♐	
desc. node	9756 Oct 26 17:10	5°♐36'19	
evening max el	9756 Nov 07 20:19	20°♐26'40	26°41'31
retrograde	9756 Nov 21 18:35	27°♐34'44	
evening set	9756 Nov 28 12:42	25°♐40'11	
min. Earth dist.	9756 Dec 02 10:20	23°♐03'49	0.59618 AU
inferior conj	9756 Dec 05 14:49	20°♐32'49	-4°13'03
minimum elong	9756 Dec 05 22:29	20°♐17'38	4°10'28
morning rise	9756 Dec 13 10:51	15°♐54'03	
direct	9756 Dec 15 14:38	15°♐37'04	
asc. node	9756 Dec 19 15:16	16°♐39'28	
morning max el	9756 Dec 23 07:33	19°♐25'16	18°12'57
	9756 Dec 31 02:06	0°♑	
morning set	9757 Jan 08 00:52	14°♑25'02	
	9757 Jan 16 09:04	0°♒	
superior conj	9757 Jan 17 12:25	2°♒04'11	0°38'38
minimum elong	9757 Jan 17 15:06	2°♒16'21	0°38'33
desc. node	9757 Jan 22 16:16	11°♒11'54	
max. Earth dist.	9757 Jan 25 03:12	15°♒24'02	1.41303 AU
evening rise	9757 Jan 29 23:33	23°♒26'28	
	9757 Feb 03 02:01	0°♓	
	9757 Feb 23 18:58	0°♈	
evening max el	9757 Mar 04 21:41	10°♈42'17	23°05'56
retrograde	9757 Mar 15 05:49	16°♈49'18	
asc. node	9757 Mar 17 13:52	16°♈22'42	
evening set	9757 Mar 20 04:26	14°♈45'59	
min. Earth dist.	9757 Mar 25 03:35	8°♈54'37	0.68537 AU
inferior conj	9757 Mar 25 13:32	8°♈20'14	2°19'31
minimum elong	9757 Mar 25 11:19	8°♈27'53	2°18'53
morning rise	9757 Mar 30 18:07	2°♈13'03	
direct	9757 Apr 04 03:29	0°♈26'26	
morning max el	9757 Apr 12 17:45	5°♈24'05	21°14'05
desc. node	9757 Apr 20 16:38	14°♈51'09	
	9757 May 01 10:03	0°♉	
morning set	9757 May 13 20:08	18°♉56'37	
	9757 May 20 17:37	0°♊	
max. Earth dist.	9757 May 20 22:33	0°♊20'09	1.42517 AU
superior conj	9757 May 28 05:48	12°♊33'33	-1°58'12
minimum elong	9757 May 28 11:39	12°♊58'38	1°58'07
	9757 Jun 07 03:21	0°♋	
evening rise	9757 Jun 08 16:27	2°♋47'14	
asc. node	9757 Jun 13 12:29	11°♋27'18	
evening max el	9757 Jun 25 02:50	28°♋38'24	18°06'31
	9757 Jun 26 15:41	0°♌	
retrograde	9757 Jul 01 20:30	2°♌04'21	
evening set	9757 Jul 04 07:51	1°♌36'51	
	9757 Jul 07 06:21	30°℞♋	
inferior conj	9757 Jul 11 03:03	26°♋42'20	1°49'48
minimum elong	9757 Jul 11 05:50	26°♋35'46	1°48'37
min. Earth dist.	9757 Jul 14 09:11	23°♋40'11	0.60478 AU
desc. node	9757 Jul 17 16:09	21°♋04'06	
morning rise	9757 Jul 18 01:02	20°♋49'38	
direct	9757 Jul 24 14:32	18°♋43'12	
morning max el	9757 Aug 07 21:53	26°♋40'00	27°50'30
	9757 Aug 11 01:18	0°♌	
	9757 Aug 31 08:49	0°♍	
morning set	9757 Sep 09 11:27	17°♍41'11	
asc. node	9757 Sep 09 12:19	17°♍45'46	
	9757 Sep 15 05:03	0°♎	
max. Earth dist.	9757 Sep 15 12:31	0°♎41'05	1.31630 AU
superior conj	9757 Sep 16 16:57	3°♎18'06	1°06'46
minimum elong	9757 Sep 16 14:43	3°♎05'43	1°06'24
evening rise	9757 Sep 23 10:29	18°♎05'37	
	9757 Sep 29 05:25	0°♏	
desc. node	9757 Oct 13 14:21	23°♏33'40	
	9757 Oct 19 01:51	0°♐	
evening max el	9757 Oct 20 14:48	1°♐31'43	25°29'02
retrograde	9757 Nov 03 12:23	8°♐32'06	
evening set	9757 Nov 09 12:05	7°♐09'34	
min. Earth dist.	9757 Nov 14 03:05	4°♐31'24	0.57581 AU
inferior conj	9757 Nov 17 02:02	2°♐29'43	-5°12'36
minimum elong	9757 Nov 17 08:40	2°♐18'17	5°11'08
	9757 Nov 20 23:26	30°℞♏	
morning rise	9757 Nov 25 07:34	28°♏13'20	
direct	9757 Nov 27 15:16	27°♏56'59	
	9757 Dec 03 18:38	0°♐	
morning max el	9757 Dec 06 11:13	2°♐12'18	18°55'49
asc. node	9757 Dec 06 12:17	2°♐14'53	
morning set	9757 Dec 22 23:11	28°♐43'18	
	9757 Dec 23 14:46	0°♑	
superior conj	9757 Dec 31 09:46	15°♑12'31	1°06'03
minimum elong	9757 Dec 31 12:57	15°♑27'43	1°06'00
max. Earth dist.	9758 Jan 07 09:45	28°♑07'14	1.39142 AU
	9758 Jan 08 11:14	0°♒	
desc. node	9758 Jan 09 13:12	1°♒53'33	
evening rise	9758 Jan 11 06:54	4°♒53'24	
	9758 Jan 27 04:30	0°♓	
evening max el	9758 Feb 15 11:36	24°♓30'19	24°25'47
	9758 Feb 22 12:49	0°♈	
retrograde	9758 Feb 26 21:54	1°♈11'35	
	9758 Mar 02 21:23	30°℞♓	
evening set	9758 Mar 04 08:41	28°♓55'10	
asc. node	9758 Mar 04 11:03	28°♓50'05	
min. Earth dist.	9758 Mar 08 23:34	23°♓38'42	0.68160 AU
inferior conj	9758 Mar 09 21:15	22°♓25'59	1°40'38
minimum elong	9758 Mar 09 19:15	22°♓32'43	1°40'01
morning rise	9758 Mar 15 05:54	16°♓25'48	
direct	9758 Mar 19 02:22	15°♓00'56	
morning max el	9758 Mar 26 16:10	19°♓16'07	20°00'55
	9758 Apr 04 09:51	0°♈	
desc. node	9758 Apr 07 13:29	4°♈27'22	
morning set	9758 Apr 22 19:55	27°♈22'08	
	9758 Apr 24 12:48	0°♉	
max. Earth dist.	9758 May 03 08:38	13°♉51'33	1.44203 AU
superior conj	9758 May 08 20:26	22°♉42'44	-2°11'56
minimum elong	9758 May 08 22:22	22°♉50'37	2°12'11
	9758 May 13 06:37	0°♊	
evening rise	9758 May 21 23:37	14°♊44'39	
	9758 May 30 23:57	0°♋	
asc. node	9758 May 31 09:32	0°♋38'43	
evening max el	9758 Jun 08 16:24	11°♋55'02	18°07'39
retrograde	9758 Jun 15 01:42	15°♋15'22	
evening set	9758 Jun 17 20:49	14°♋35'18	
inferior conj	9758 Jun 24 01:41	9°♋21'45	2°39'49
minimum elong	9758 Jun 24 04:18	9°♋14'47	2°38'53
min. Earth dist.	9758 Jun 26 21:03	6°♋22'56	0.62712 AU
morning rise	9758 Jun 30 09:59	3°♋12'24	
desc. node	9758 Jul 04 13:15	1°♋04'26	
direct	9758 Jul 07 03:37	0°♋42'39	
morning max el	9758 Jul 21 04:49	8°♋45'07	27°53'15
	9758 Aug 06 14:46	0°♌	
	9758 Aug 23 14:10	0°♍	
morning set	9758 Aug 24 10:07	1°♍40'27	
asc. node	9758 Aug 27 09:13	7°♍46'57	
max. Earth dist.	9758 Aug 29 17:21	12°♍44'57	1.32214 AU
superior conj	9758 Sep 01 01:36	17°♍49'24	0°45'29

minimum elong	9758 Aug 31	23:42	17°♍39'04	0°45'01
	9758 Sep 06	15:18	0°♎	
evening rise	9758 Sep 07	21:58	2°♎45'18	
	9758 Sep 22	12:52	0°♏	
desc. node	9758 Sep 30	11:33	10°♏15'25	
evening max el	9758 Oct 02	02:46	11°♏54'49	23°54'36
retrograde	9758 Oct 15	17:36	18°♏43'22	
evening set	9758 Oct 20	10:52	17°♏54'40	
min. Earth dist.	9758 Oct 26	13:13	14°♏56'19	0.55889 AU
inferior conj	9758 Oct 28	16:54	13°♏38'18	-5°41'44
minimum elong	9758 Oct 28	17:53	13°♏36'48	5°41'29
morning rise	9758 Nov 06	02:51	9°♏41'55	
direct	9758 Nov 08	20:42	9°♏22'47	
morning max el	9758 Nov 19	03:04	14°♏13'57	20°01'15
asc. node	9758 Nov 23	09:18	19°♏03'59	
	9758 Nov 30	07:48	0°♐	
morning set	9758 Dec 07	04:18	13°♐19'04	
superior conj	9758 Dec 14	21:22	29°♐00'55	1°25'01
minimum elong	9758 Dec 14	23:55	29°♐13'39	1°25'09
	9758 Dec 15	09:13	0°♑	
max. Earth dist.	9758 Dec 20	16:27	10°♑17'20	1.36983 AU
evening rise	9758 Dec 24	10:46	17°♑13'42	
desc. node	9758 Dec 27	10:11	22°♑29'51	
	9758 Dec 31	20:32	0°♒	
	9759 Jan 21	13:44	0°♓	
evening max el	9759 Jan 29	00:58	8°♓19'26	25°39'18
retrograde	9759 Feb 10	09:22	15°♓24'48	
evening set	9759 Feb 16	08:34	12°♓57'39	
asc. node	9759 Feb 19	08:15	9°♓54'35	
min. Earth dist.	9759 Feb 20	16:27	8°♓16'08	0.67382 AU
inferior conj	9759 Feb 22	01:50	6°♓29'50	0°52'54
minimum elong	9759 Feb 22	00:34	6°♓33'52	0°52'35
morning rise	9759 Feb 27	17:04	0°♓38'24	
	9759 Feb 28	22:12	30°♓℞	
direct	9759 Mar 03	01:43	29°♒33'38	
	9759 Mar 05	06:49	0°♓	
morning max el	9759 Mar 09	22:31	3°♓18'46	19°02'31
greatest brilliancy	9759 Mar 23	11:01	21°♓27'39	-0.7m
desc. node	9759 Mar 25	10:19	24°♓27'40	
	9759 Mar 29	00:47	0°♈	
morning set	9759 Apr 01	23:47	6°♈07'32	
max. Earth dist.	9759 Apr 16	00:57	28°♈01'14	1.45269 AU
	9759 Apr 17	07:09	0°♉	
superior conj	9759 Apr 18	12:38	1°♉56'10	-2°07'36
minimum elong	9759 Apr 18	07:21	1°♉35'19	2°07'33
evening rise	9759 May 03	08:15	25°♉43'54	
	9759 May 05	22:55	0°♊	
asc. node	9759 May 18	06:38	19°♊21'49	
evening max el	9759 May 23	05:22	25°♊25'12	18°27'10
retrograde	9759 May 29	16:04	28°♊54'02	
evening set	9759 Jun 01	18:50	27°♊59'54	
inferior conj	9759 Jun 07	13:22	22°♊29'02	3°08'12
minimum elong	9759 Jun 07	14:56	22°♊24'22	3°07'37
min. Earth dist.	9759 Jun 09	18:16	19°♊52'51	0.64712 AU
morning rise	9759 Jun 13	10:04	16°♊11'22	
direct	9759 Jun 20	00:58	13°♊28'45	
desc. node	9759 Jun 21	10:19	13°♊35'12	
morning max el	9759 Jul 03	14:57	21°♊26'32	27°20'28
	9759 Jul 11	01:23	0°♋	
	9759 Jul 30	18:56	0°♌	
morning set	9759 Aug 07	23:58	15°♌11'36	
max. Earth dist.	9759 Aug 12	14:17	24°♌25'14	1.33298 AU
asc. node	9759 Aug 14	06:07	27°♌52'04	
	9759 Aug 15	06:27	0°♍	
superior conj	9759 Aug 16	05:40	2°♍02'55	0°19'40
minimum elong	9759 Aug 16	04:42	1°♍57'46	0°19'16
evening rise	9759 Aug 23	09:06	17°♍20'26	
	9759 Aug 29	14:51	0°♎	
evening max el	9759 Sep 13	14:53	22°♎03'22	22°14'37
desc. node	9759 Sep 17	08:46	25°♎13'12	
retrograde	9759 Sep 26	11:01	28°♎27'07	
evening set	9759 Sep 29	16:33	28°♎03'59	
min. Earth dist.	9759 Oct 07	20:41	24°♎28'26	0.54844 AU
inferior conj	9759 Oct 08	14:52	24°♎02'53	-5°20'45
minimum elong	9759 Oct 08	07:59	24°♎12'34	5°19'36
morning rise	9759 Oct 17	01:04	20°♎15'43	
direct	9759 Oct 20	09:39	19°♎50'35	
morning max el	9759 Nov 01	05:28	25°♎24'48	21°28'40
	9759 Nov 05	10:13	0°♏	
asc. node	9759 Nov 10	06:16	6°♏50'25	
morning set	9759 Nov 21	13:34	28°♏04'04	
	9759 Nov 22	11:43	0°♐	
superior conj	9759 Nov 28	19:08	13°♐17'05	1°36'11
minimum elong	9759 Nov 28	20:32	13°♐24'22	1°36'28
max. Earth dist.	9759 Dec 03	03:36	22°♐10'41	1.35037 AU
evening rise	9759 Dec 07	07:41	0°♑18'07	
	9759 Dec 07	03:52	0°♑	
desc. node	9759 Dec 14	07:13	12°♑56'02	
	9759 Dec 24	23:13	0°♒	
evening max el	9760 Jan 11	14:18	22°♒03'33	26°39'17
retrograde	9760 Jan 24	15:33	29°♒22'28	
evening set	9760 Jan 31	02:16	26°♒48'41	
min. Earth dist.	9760 Feb 04	04:02	22°♒41'41	0.66216 AU
inferior conj	9760 Feb 06	01:14	20°♒27'42	-0°03'26
minimum elong	9760 Feb 06	01:19	20°♒27'27	0°03'09
transit middle	9760 Feb 06	01:19	20°♒27'27	0°03'09
transit begin	9760 Feb 05	22:27	20°♒35'58	
transit end	9760 Feb 06	04:11	20°♒18'56	
asc. node	9760 Feb 06	05:24	20°♒15'21	
morning rise	9760 Feb 12	01:24	14°♒47'08	
direct	9760 Feb 14	23:40	13°♒59'29	
morning max el	9760 Feb 21	11:18	17°♒27'14	18°20'23
	9760 Mar 01	22:48	0°♓	
desc. node	9760 Mar 11	07:09	14°♓45'40	
morning set	9760 Mar 12	03:48	16°♓08'11	
	9760 Mar 20	21:12	0°♈	
superior conj	9760 Mar 27	18:22	10°♈48'44	-1°43'08
minimum elong	9760 Mar 27	08:50	10°♈11'23	1°42'18
max. Earth dist.	9760 Mar 28	20:13	12°♈29'52	1.45611 AU
	9760 Apr 09	00:53	0°♉	
evening rise	9760 Apr 12	17:22	5°♉46'53	
greatest brilliancy	9760 Apr 23	05:13	22°♉10'02	-0.8m
	9760 Apr 28	11:03	0°♊	
asc. node	9760 May 04	03:46	7°♊27'33	
evening max el	9760 May 05	15:10	9°♊02'40	19°04'12
retrograde	9760 May 12	11:53	12°♊52'46	
evening set	9760 May 15	22:36	11°♊43'44	
inferior conj	9760 May 21	10:24	5°♊57'17	3°19'16
minimum elong	9760 May 21	10:44	5°♊56'13	3°18'55
min. Earth dist.	9760 May 23	00:09	3°♊56'36	0.66340 AU
morning rise	9760 May 26	22:20	29°♉37'12	
	9760 May 26	12:19	30°℞♉	
direct	9760 Jun 02	05:26	26°♉52'52	
desc. node	9760 Jun 07	07:18	28°♉19'36	
	9760 Jun 09	22:20	0°♊	
morning max el	9760 Jun 15	01:43	4°♊32'29	26°19'17
	9760 Jul 04	12:04	0°♋	
morning set	9760 Jul 21	01:40	28°♋06'23	
	9760 Jul 22	01:50	0°♌	

max. Earth dist.	9760 Jul	25	00:43	5°♌40'45	1.34868 AU
superior conj	9760 Jul	30	02:47	15°♌52'43	-0°10'00
minimum elong	9760 Jul	30	03:22	15°♌55'42	0°10'09
behind sun begin	9760 Jul	29	22:43	15°♌31'53	
behind sun end	9760 Jul	30	08:00	16°♌19'33	
asc. node	9760 Jul	31	03:02	17°♌57'34	
	9760 Aug	05	21:34	0°♍	
evening rise	9760 Aug	06	17:55	1°♍45'49	
	9760 Aug	23	03:23	0°♎	
evening max el	9760 Aug	25	12:26	2°♎35'08	20°44'48
desc. node	9760 Sep	03	05:57	7°♎56'52	
retrograde	9760 Sep	05	23:02	8°♎15'34	
evening set	9760 Sep	08	02:57	8°♎04'14	
inferior conj	9760 Sep	17	07:05	4°♎07'57	-4°04'05
minimum elong	9760 Sep	16	21:22	4°♎21'52	4°01'13
min. Earth dist.	9760 Sep	18	05:14	3°♎36'13	0.54689 AU
morning rise	9760 Sep	25	15:42	0°♎09'39	
	9760 Sep	26	06:17	30°℞♍	
direct	9760 Sep	29	17:35	29°♍33'59	
	9760 Oct	03	03:20	0°♎	
morning max el	9760 Oct	12	21:09	5°♎53'36	23°11'53
asc. node	9760 Oct	27	03:11	25°♎20'58	
	9760 Oct	29	16:05	0°♏	
morning set	9760 Nov	05	00:54	12°♏52'24	
superior conj	9760 Nov	11	23:48	27°♏51'31	1°40'20
minimum elong	9760 Nov	11	23:58	27°♏52'21	1°40'39
	9760 Nov	12	23:48	0°♐	
max. Earth dist.	9760 Nov	14	22:20	4°♐06'32	1.33467 AU
evening rise	9760 Nov	19	17:57	13°♐57'21	
	9760 Nov	28	08:48	0°♑	
desc. node	9760 Nov	30	04:16	3°♑06'32	
	9760 Dec	18	21:43	0°♒	
evening max el	9760 Dec	24	03:13	5°♒33'15	27°18'31
retrograde	9761 Jan	06	15:46	12°♒55'46	
evening set	9761 Jan	13	11:35	10°♒21'39	
min. Earth dist.	9761 Jan	17	08:12	6°♒47'35	0.64694 AU
inferior conj	9761 Jan	19	17:02	4°♒13'43	-1°07'51
minimum elong	9761 Jan	19	19:06	4°♒08'06	1°06'40
asc. node	9761 Jan	23	02:32	0°♒49'20	
	9761 Jan	24	02:58	30°℞♑	
morning rise	9761 Jan	26	04:15	28°♑46'25	
direct	9761 Jan	28	17:55	28°♑12'08	
	9761 Feb	02	08:54	0°♒	
morning max el	9761 Feb	04	03:56	1°♒33'40	17°55'06
morning set	9761 Feb	21	13:06	27°♒35'14	
	9761 Feb	22	23:50	0°♓	
desc. node	9761 Feb	26	03:59	5°♓15'50	
superior conj	9761 Mar	07	08:18	20°♓10'26	-1°04'11
minimum elong	9761 Mar	07	01:10	19°♓41'54	1°03'09
max. Earth dist.	9761 Mar	11	15:38	26°♓59'58	1.45212 AU
	9761 Mar	13	13:29	0°♈	
evening rise	9761 Mar	23	08:57	15°♈12'27	
	9761 Apr	02	02:08	0°♉	
greatest brilliancy	9761 Apr	07	01:59	7°♉24'55	-0.6m
evening max el	9761 Apr	18	20:03	22°♉42'59	19°57'19
asc. node	9761 Apr	21	00:54	24°♉43'42	
retrograde	9761 Apr	26	10:09	27°♉04'50	
evening set	9761 Apr	30	05:35	25°♉40'28	
inferior conj	9761 May	05	13:41	19°♉40'10	3°16'30
minimum elong	9761 May	05	12:54	19°♉42'49	3°16'10
min. Earth dist.	9761 May	06	12:53	18°♉21'56	0.67537 AU
morning rise	9761 May	10	19:54	13°♉21'22	
direct	9761 May	16	15:53	10°♉45'27	
desc. node	9761 May	25	04:16	14°♉46'53	
morning max el	9761 May	28	11:25	17°♉50'53	24°59'05
	9761 Jun	07	15:46	0°♊	
	9761 Jun	27	12:45	0°♋	
morning set	9761 Jul	03	10:48	10°♋12'41	
max. Earth dist.	9761 Jul	07	01:12	16°♋44'06	1.36856 AU
superior conj	9761 Jul	13	13:55	29°♋10'56	-0°42'13
minimum elong	9761 Jul	13	16:35	29°♋24'02	0°42'03
	9761 Jul	13	23:54	0°♌	
asc. node	9761 Jul	17	23:58	7°♌59'20	
evening rise	9761 Jul	21	22:05	15°♌54'39	
	9761 Jul	29	05:40	0°♍	
evening max el	9761 Aug	07	23:40	13°♍51'15	19°33'47
retrograde	9761 Aug	17	17:13	18°♍40'26	
evening set	9761 Aug	19	13:25	18°♍30'50	
desc. node	9761 Aug	21	03:06	18°♍08'22	
inferior conj	9761 Aug	28	08:10	14°♍26'21	-2°13'15
minimum elong	9761 Aug	28	02:10	14°♍35'52	2°11'06
min. Earth dist.	9761 Aug	30	16:46	12°♍56'48	0.55485 AU
morning rise	9761 Sep	05	12:34	9°♍58'25	
direct	9761 Sep	10	10:01	9°♍04'49	
morning max el	9761 Sep	24	08:49	16°♍03'47	24°57'50
	9761 Oct	05	14:18	0°♎	
asc. node	9761 Oct	14	00:05	14°♎25'00	
morning set	9761 Oct	20	12:37	27°♎39'31	
	9761 Oct	21	14:46	0°♏	
superior conj	9761 Oct	27	08:53	12°♏36'46	1°38'10
minimum elong	9761 Oct	27	07:56	12°♏31'34	1°38'22
max. Earth dist.	9761 Oct	29	00:55	16°♏15'46	1.32348 AU
evening rise	9761 Nov	03	14:13	28°♏03'01	
	9761 Nov	04	13:09	0°♐	
desc. node	9761 Nov	17	01:21	22°♐54'38	
	9761 Nov	21	14:00	0°♑	
evening max el	9761 Dec	06	14:13	18°♑37'17	27°30'11
retrograde	9761 Dec	20	09:01	25°♑55'49	
evening set	9761 Dec	27	09:49	23°♑29'38	
min. Earth dist.	9761 Dec	31	03:08	20°♑24'41	0.62872 AU
inferior conj	9762 Jan	02	22:26	17°♑41'19	-2°18'43
minimum elong	9762 Jan	03	02:57	17°♑30'19	2°16'34
morning rise	9762 Jan	09	22:18	12°♑30'10	
asc. node	9762 Jan	09	23:36	12°♑29'02	
direct	9762 Jan	12	05:39	12°♑05'22	
morning max el	9762 Jan	18	21:23	15°♑30'12	17°47'17
	9762 Jan	29	01:34	0°♒	
morning set	9762 Feb	03	23:10	10°♒13'55	
desc. node	9762 Feb	13	00:52	25°♒54'14	
	9762 Feb	15	11:24	0°♓	
superior conj	9762 Feb	15	20:10	0°♓36'31	-0°20'48
minimum elong	9762 Feb	15	18:04	0°♓27'43	0°20'16
max. Earth dist.	9762 Feb	22	09:01	11°♓16'56	1.44123 AU
evening rise	9762 Mar	02	20:52	24°♓37'55	
	9762 Mar	06	08:59	0°♈	
	9762 Mar	27	06:39	0°♉	
evening max el	9762 Apr	01	19:26	6°♉24'56	21°03'53
asc. node	9762 Apr	07	22:02	10°♉56'20	
retrograde	9762 Apr	10	08:39	11°♉25'57	
evening set	9762 Apr	14	13:52	9°♉46'02	
inferior conj	9762 Apr	19	20:47	3°♉33'48	3°02'12
minimum elong	9762 Apr	19	19:09	3°♉39'28	3°01'45
min. Earth dist.	9762 Apr	20	06:25	3°♉00'26	0.68281 AU
	9762 Apr	22	12:34	30°℞♈	
morning rise	9762 Apr	25	00:14	27°♈18'35	
direct	9762 Apr	30	07:12	24°♈58'41	
	9762 May	09	13:24	0°♉	
morning max el	9762 May	10	20:48	1°♉16'30	23°30'01

desc. node	9762 May 12 01:12	2°♉30'16	
	9762 Jun 01 14:26	0°♊	
morning set	9762 Jun 14 22:06	21°♊16'44	
max. Earth dist.	9762 Jun 18 21:32	28°♊06'41	1.39105 AU
	9762 Jun 19 23:20	0°♋	
superior conj	9762 Jun 26 11:22	11°♋48'28	-1°14'52
minimum elong	9762 Jun 26 16:16	12°♋11'16	1°14'30
asc. node	9762 Jul 04 20:55	27°♋53'16	
evening rise	9762 Jul 05 18:48	29°♋39'27	
	9762 Jul 05 23:03	0°♌	
evening max el	9762 Jul 21 23:05	25°♌52'10	18°43'46
retrograde	9762 Jul 30 04:05	29°♌57'32	
evening set	9762 Aug 01 03:49	29°♌43'59	
desc. node	9762 Aug 08 00:16	26°♌12'26	
inferior conj	9762 Aug 09 04:18	25°♌21'23	-0°21'30
minimum elong	9762 Aug 09 03:25	25°♌23'00	0°21'24
min. Earth dist.	9762 Aug 12 08:37	23°♌01'32	0.57083 AU
morning rise	9762 Aug 16 23:37	20°♌16'22	
direct	9762 Aug 22 16:15	18°♌57'05	
morning max el	9762 Sep 05 23:25	26°♌25'03	26°29'25
	9762 Sep 09 09:19	0°♍	
	9762 Sep 28 21:27	0°♎	
asc. node	9762 Sep 30 20:58	3°♎53'08	
morning set	9762 Oct 04 23:00	12°♎19'50	
superior conj	9762 Oct 11 20:11	27°♎25'19	1°30'12
minimum elong	9762 Oct 11 18:25	27°♎15'31	1°30'10
max. Earth dist.	9762 Oct 12 08:52	28°♎35'44	1.31700 AU
	9762 Oct 13 00:04	0°♏	
evening rise	9762 Oct 18 17:34	12°♏26'17	
	9762 Oct 27 16:20	0°♐	
desc. node	9762 Nov 03 22:27	12°♐10'23	
	9762 Nov 17 19:18	0°♑	
evening max el	9762 Nov 18 20:42	1°♑01'34	27°09'09
retrograde	9762 Dec 02 18:04	8°♑12'42	
evening set	9762 Dec 09 17:22	6°♑03'57	
min. Earth dist.	9762 Dec 13 11:20	3°♑20'42	0.60836 AU
inferior conj	9762 Dec 16 14:07	0°♑40'57	-3°32'18
minimum elong	9762 Dec 16 20:59	0°♑26'14	3°29'36
	9762 Dec 17 09:21	30°℞♐	
morning rise	9762 Dec 24 03:06	25°♐49'19	
direct	9762 Dec 26 07:11	25°♐30'20	
asc. node	9762 Dec 27 20:40	25°♐40'32	
morning max el	9763 Jan 02 12:20	29°♐07'16	17°57'55
	9763 Jan 03 08:47	0°♑	
morning set	9763 Jan 18 03:23	23°♑43'16	
	9763 Jan 21 13:29	0°♒	
superior conj	9763 Jan 28 09:11	12°♒13'47	0°19'01
minimum elong	9763 Jan 28 10:46	12°♒20'43	0°19'04
desc. node	9763 Jan 30 21:44	16°♒36'33	
max. Earth dist.	9763 Feb 04 22:34	25°♒05'57	1.42454 AU
	9763 Feb 07 22:28	0°♓	
evening rise	9763 Feb 10 19:47	4°♓37'43	
	9763 Feb 27 16:48	0°♈	
evening max el	9763 Mar 15 13:47	20°♈08'29	22°19'58
retrograde	9763 Mar 25 05:44	25°♈51'37	
asc. node	9763 Mar 25 19:11	25°♈50'04	
evening set	9763 Mar 29 21:49	23°♈56'27	
inferior conj	9763 Apr 04 05:37	17°♈34'47	2°37'50
minimum elong	9763 Apr 04 03:30	17°♈42'10	2°37'14
min. Earth dist.	9763 Apr 04 02:34	17°♈45'23	0.68569 AU
morning rise	9763 Apr 09 09:02	11°♈24'32	
direct	9763 Apr 14 02:16	9°♈25'18	
morning max el	9763 Apr 23 08:55	14°♈50'50	22°01'41
desc. node	9763 Apr 28 22:06	21°♈08'56	
	9763 May 05 14:35	0°♉	
	9763 May 25 14:06	0°♊	
morning set	9763 May 26 07:09	1°♊08'27	
max. Earth dist.	9763 May 31 21:10	10°♊17'47	1.41345 AU
superior conj	9763 Jun 08 14:44	23°♊35'11	-1°44'28
minimum elong	9763 Jun 08 20:56	24°♊02'40	1°44'11
	9763 Jun 12 04:45	0°♋	
evening rise	9763 Jun 19 04:33	12°♋51'38	
asc. node	9763 Jun 21 17:54	17°♋35'16	
	9763 Jun 28 20:28	0°♌	
evening max el	9763 Jul 05 07:00	8°♌30'14	18°14'21
retrograde	9763 Jul 12 10:17	12°♌06'21	
evening set	9763 Jul 14 17:10	11°♌44'52	
inferior conj	9763 Jul 21 22:16	7°♌01'31	1°09'29
minimum elong	9763 Jul 22 00:26	6°♌56'51	1°08'26
min. Earth dist.	9763 Jul 25 06:59	4°♌08'25	0.59177 AU
desc. node	9763 Jul 25 21:26	3°♌39'21	
morning rise	9763 Jul 29 04:29	1°♌23'14	
	9763 Aug 01 10:07	30°℞♋	
direct	9763 Aug 04 12:03	29°♋33'59	
	9763 Aug 07 15:43	0°♌	
morning max el	9763 Aug 18 20:57	7°♌22'22	27°31'35
	9763 Sep 04 22:31	0°♍	
asc. node	9763 Sep 17 17:51	23°♍38'37	
morning set	9763 Sep 19 06:26	26°♍48'57	
	9763 Sep 20 18:26	0°♎	
superior conj	9763 Sep 26 07:54	12°♎11'42	1°16'48
minimum elong	9763 Sep 26 05:42	11°♎59'30	1°16'33
max. Earth dist.	9763 Sep 25 18:44	10°♎58'33	1.31524 AU
evening rise	9763 Oct 03 01:42	27°♎00'40	
	9763 Oct 04 11:32	0°♏	
	9763 Oct 21 08:02	0°♐	
desc. node	9763 Oct 21 19:36	0°♐41'12	
evening max el	9763 Oct 31 19:51	12°♐35'43	26°14'04
retrograde	9763 Nov 14 17:45	19°♐40'02	
evening set	9763 Nov 21 05:50	17°♐58'08	
min. Earth dist.	9763 Nov 25 08:53	15°♐23'30	0.58735 AU
inferior conj	9763 Nov 28 12:34	13°♐03'02	-4°40'44
minimum elong	9763 Nov 28 20:17	12°♐48'40	4°38'30
morning rise	9763 Dec 06 13:12	8°♐33'51	
direct	9763 Dec 08 18:07	8°♐17'26	
asc. node	9763 Dec 14 17:44	10°♐26'30	
morning max el	9763 Dec 16 21:13	12°♐15'34	18°28'33
	9763 Dec 28 17:45	0°♑	
morning set	9764 Jan 01 20:17	7°♑47'06	
superior conj	9764 Jan 10 20:10	24°♑53'09	0°51'19
minimum elong	9764 Jan 10 23:15	25°♑07'26	0°51'13
	9764 Jan 13 15:20	0°♒	
desc. node	9764 Jan 17 18:38	7°♒19'25	
max. Earth dist.	9764 Jan 18 07:23	8°♒14'34	1.40398 AU
evening rise	9764 Jan 22 14:30	15°♒30'59	
	9764 Jan 31 16:33	0°♓	
	9764 Feb 22 13:34	0°♈	
evening max el	9764 Feb 26 04:35	3°♈54'04	23°40'15
retrograde	9764 Mar 08 00:01	10°♈16'45	
asc. node	9764 Mar 11 16:23	9°♈11'55	
evening set	9764 Mar 13 03:52	8°♈07'19	
min. Earth dist.	9764 Mar 17 23:12	2°♈31'05	0.68424 AU
inferior conj	9764 Mar 18 14:16	1°♈39'34	2°04'08
minimum elong	9764 Mar 18 12:05	1°♈47'02	2°03'28
	9764 Mar 19 19:42	30°℞♓	
morning rise	9764 Mar 23 20:17	25°♓35'26	
direct	9764 Mar 28 00:01	23°♓58'21	
morning max el	9764 Apr 05 03:06	28°♓36'29	20°41'26

	9764 Apr 06 11:17	0°♈	
desc. node	9764 Apr 14 18:59	10°♈27'20	
	9764 Apr 28 04:27	0°♉	
morning set	9764 May 04 15:24	9°♉54'22	
max. Earth dist.	9764 May 13 03:18	23°♉21'54	1.43296 AU
	9764 May 17 04:47	0°♊	
superior conj	9764 May 19 19:26	4°♊20'37	-2°05'52
minimum elong	9764 May 20 00:12	4°♊40'33	2°05'58
evening rise	9764 May 31 22:51	25°♊19'39	
	9764 Jun 03 14:23	0°♋	
asc. node	9764 Jun 07 14:56	6°♋59'40	
evening max el	9764 Jun 17 19:28	21°♋35'07	18°04'38
retrograde	9764 Jun 24 08:28	24°♋57'17	
evening set	9764 Jun 26 23:02	24°♋24'47	
inferior conj	9764 Jul 03 11:38	19°♋21'48	2°13'57
minimum elong	9764 Jul 03 14:30	19°♋14'38	2°12'48
min. Earth dist.	9764 Jul 06 13:47	16°♋18'21	0.61442 AU
morning rise	9764 Jul 10 03:36	13°♋20'28	
desc. node	9764 Jul 11 18:34	12°♋21'36	
direct	9764 Jul 16 19:31	11°♋03'12	
morning max el	9764 Jul 31 01:12	19°♋04'00	27°56'19
	9764 Aug 09 07:20	0°♌	
	9764 Aug 27 19:14	0°♍	
morning set	9764 Sep 02 08:58	11°♍00'58	
asc. node	9764 Sep 03 14:45	13°♍35'22	
max. Earth dist.	9764 Sep 08 02:27	23°♍12'00	1.31821 AU
superior conj	9764 Sep 09 18:13	26°♍50'02	0°58'19
minimum elong	9764 Sep 09 16:03	26°♍38'08	0°57'53
	9764 Sep 11 04:39	0°♎	
evening rise	9764 Sep 16 12:29	11°♎39'45	
	9764 Sep 25 17:20	0°♏	
desc. node	9764 Oct 07 16:47	18°♏09'26	
evening max el	9764 Oct 12 10:49	23°♏19'43	24°50'31
	9764 Oct 23 13:59	0°♐	
retrograde	9764 Oct 26 06:37	0°♐16'47	
	9764 Oct 28 23:30	30°℞♏	
evening set	9764 Oct 31 18:48	29°♏08'41	
min. Earth dist.	9764 Nov 05 22:16	26°♏24'14	0.56798 AU
inferior conj	9764 Nov 08 15:03	24°♏39'22	-5°29'57
minimum elong	9764 Nov 08 19:52	24°♏31'32	5°29'07
morning rise	9764 Nov 16 23:12	20°♏32'37	
direct	9764 Nov 19 10:22	20°♏15'37	
morning max el	9764 Nov 28 20:20	24°♏44'54	19°20'57
asc. node	9764 Nov 30 14:46	26°♏35'26	
	9764 Dec 03 08:07	0°♐	
morning set	9764 Dec 15 21:52	22°♐13'57	
	9764 Dec 19 18:53	0°♑	
superior conj	9764 Dec 24 00:11	8°♑20'41	1°15'05
minimum elong	9764 Dec 24 03:12	8°♑35'20	1°15'07
max. Earth dist.	9764 Dec 30 13:08	20°♑41'03	1.38201 AU
evening rise	9765 Jan 03 06:54	27°♑21'41	
desc. node	9765 Jan 03 15:35	27°♑59'30	
	9765 Jan 04 19:26	0°♒	
	9765 Jan 24 04:15	0°♓	
evening max el	9765 Feb 07 17:54	17°♓42'37	24°58'17
retrograde	9765 Feb 19 14:26	24°♓36'24	
evening set	9765 Feb 25 06:30	22°♓14'51	
asc. node	9765 Feb 26 13:34	21°♓01'45	
min. Earth dist.	9765 Mar 01 18:10	17°♓13'16	0.67868 AU
inferior conj	9765 Mar 02 20:54	15°♓45'20	1°21'29
minimum elong	9765 Mar 02 19:08	15°♓51'08	1°20'58
morning rise	9765 Mar 08 08:03	9°♓48'41	
direct	9765 Mar 11 23:13	8°♓32'53	
morning max el	9765 Mar 19 05:03	12°♓34'06	19°34'12
greatest brilliancy	9765 Mar 31 21:28	29°♓07'15	-0.7m
	9765 Apr 01 11:46	0°♈	
desc. node	9765 Apr 01 15:50	0°♈15'00	
morning set	9765 Apr 13 13:50	18°♈19'42	
	9765 Apr 21 02:25	0°♉	
max. Earth dist.	9765 Apr 25 15:48	7°♉09'52	1.44733 AU
superior conj	9765 Apr 29 23:49	14°♉03'58	-2°12'35
minimum elong	9765 Apr 29 22:50	14°♉00'02	2°12'49
	9765 May 09 18:01	0°♊	
evening rise	9765 May 13 20:54	6°♊53'14	
asc. node	9765 May 25 12:01	26°♊00'20	
	9765 May 28 05:48	0°♋	
evening max el	9765 Jun 01 09:07	4°♋58'33	18°13'44
retrograde	9765 Jun 07 18:03	8°♋21'02	
evening set	9765 Jun 10 16:18	7°♋35'18	
inferior conj	9765 Jun 16 16:20	2°♋14'23	2°54'12
minimum elong	9765 Jun 16 18:34	2°♋08'10	2°53'24
	9765 Jun 18 16:17	30°℞♊	
min. Earth dist.	9765 Jun 19 05:53	29°♊22'51	0.63602 AU
morning rise	9765 Jun 22 19:22	26°♊00'24	
desc. node	9765 Jun 28 15:40	23°♊25'59	
direct	9765 Jun 29 12:35	23°♊23'29	
	9765 Jul 11 22:24	0°♋	
morning max el	9765 Jul 13 09:53	1°♋26'16	27°43'10
	9765 Aug 03 12:04	0°♌	
morning set	9765 Aug 17 04:16	24°♌49'36	
	9765 Aug 19 17:31	0°♍	
asc. node	9765 Aug 21 11:38	3°♍38'53	
max. Earth dist.	9765 Aug 22 04:10	5°♍05'54	1.32613 AU
superior conj	9765 Aug 25 01:12	11°♍14'49	0°35'03
minimum elong	9765 Aug 24 23:38	11°♍06'19	0°34'35
evening rise	9765 Sep 01 00:02	26°♍18'10	
	9765 Sep 02 17:59	0°♎	
	9765 Sep 20 14:43	0°♏	
evening max el	9765 Sep 23 21:43	3°♏32'26	23°11'40
desc. node	9765 Sep 24 13:59	4°♏11'00	
retrograde	9765 Oct 07 06:54	10°♏12'56	
evening set	9765 Oct 11 08:25	9°♏36'58	
min. Earth dist.	9765 Oct 18 07:08	6°♏24'22	0.55343 AU
inferior conj	9765 Oct 19 21:53	5°♏28'00	-5°39'55
minimum elong	9765 Oct 19 19:24	5°♏31'38	5°39'35
morning rise	9765 Oct 28 08:15	1°♏37'14	
direct	9765 Oct 31 07:44	1°♏16'04	
morning max el	9765 Nov 11 06:32	6°♏25'36	20°35'58
asc. node	9765 Nov 17 11:45	13°♏51'02	
	9765 Nov 26 19:02	0°♐	
morning set	9765 Nov 30 05:00	6°♐54'25	
superior conj	9765 Dec 07 16:33	22°♐22'21	1°30'39
minimum elong	9765 Dec 07 18:39	22°♐33'00	1°30'52
	9765 Dec 11 11:58	0°♑	
max. Earth dist.	9765 Dec 12 20:49	2°♑40'02	1.36113 AU
evening rise	9765 Dec 16 18:31	10°♑02'24	
desc. node	9765 Dec 21 12:33	18°♑32'11	
	9765 Dec 28 10:21	0°♒	
	9766 Jan 19 19:05	0°♓	
evening max el	9766 Jan 21 07:15	1°♓30'45	26°07'01
retrograde	9766 Feb 02 23:52	8°♓43'39	
evening set	9766 Feb 09 03:57	6°♓13'16	
asc. node	9766 Feb 13 10:45	1°♓41'24	
min. Earth dist.	9766 Feb 13 09:10	1°♓46'16	0.66925 AU
inferior conj	9766 Feb 14 23:32	29°♒47'25	0°30'03
minimum elong	9766 Feb 14 22:46	29°♒49'48	0°29'57
	9766 Feb 14 19:29	30°℞♒	
morning rise	9766 Feb 20 18:15	24°♒00'04	

direct	9766 Feb 23 22:14	23°♒03'02	
morning max el	9766 Mar 02 14:17	26°♒39'40	18°42'30
	9766 Mar 05 14:08	0°♓	
desc. node	9766 Mar 19 12:39	20°♓23'31	
morning set	9766 Mar 24 02:13	27°♓32'07	
	9766 Mar 25 15:58	0°♈	
max. Earth dist.	9766 Apr 08 09:13	21°♈27'53	1.45504 AU
superior conj	9766 Apr 09 09:28	23°♈02'52	-1°59'32
minimum elong	9766 Apr 09 01:35	22°♈31'59	1°59'09
	9766 Apr 13 19:42	0°♉	
evening rise	9766 Apr 24 19:10	17°♉26'39	
greatest brilliancy	9766 May 02 01:38	29°♉05'32	-0.9m
	9766 May 02 15:21	0°♊	
asc. node	9766 May 12 09:07	14°♊29'00	
evening max el	9766 May 15 21:03	18°♊32'49	18°40'56
retrograde	9766 May 22 10:59	22°♊08'59	
evening set	9766 May 25 17:05	21°♊08'37	
inferior conj	9766 May 31 08:22	15°♊31'13	3°14'44
minimum elong	9766 May 31 09:25	15°♊28'01	3°14'17
min. Earth dist.	9766 Jun 02 06:54	13°♊08'47	0.65456 AU
morning rise	9766 Jun 06 00:59	9°♊12'09	
direct	9766 Jun 12 13:16	6°♊27'11	
desc. node	9766 Jun 15 12:42	6°♊56'59	
morning max el	9766 Jun 25 20:20	14°♊19'00	26°57'22
	9766 Jul 08 14:09	0°♋	
	9766 Jul 27 05:05	0°♌	
morning set	9766 Jul 31 13:27	8°♌07'12	
max. Earth dist.	9766 Aug 04 20:38	16°♌34'51	1.33906 AU
asc. node	9766 Aug 08 08:32	23°♌45'11	
superior conj	9766 Aug 09 02:42	25°♌20'10	0°07'32
minimum elong	9766 Aug 09 02:19	25°♌18'07	0°07'13
behind sun begin	9766 Aug 08 21:12	24°♌51'23	
behind sun end	9766 Aug 09 07:25	25°♌44'55	
	9766 Aug 11 07:47	0°♍	
evening rise	9766 Aug 16 10:28	10°♍50'39	
	9766 Aug 26 08:00	0°♎	
evening max el	9766 Sep 05 13:12	13°♎48'48	21°34'33
desc. node	9766 Sep 11 11:11	18°♎16'33	
retrograde	9766 Sep 17 20:30	19°♎55'17	
evening set	9766 Sep 20 13:05	19°♎38'49	
inferior conj	9766 Sep 29 15:50	15°♎41'46	-4°54'23
minimum elong	9766 Sep 29 06:47	15°♎54'25	4°52'21
min. Earth dist.	9766 Sep 29 14:53	15°♎43'06	0.54665 AU
morning rise	9766 Oct 08 01:29	11°♎52'25	
direct	9766 Oct 11 17:26	11°♎23'14	
morning max el	9766 Oct 24 03:41	17°♎17'08	22°11'06
	9766 Nov 03 03:37	0°♏	
asc. node	9766 Nov 04 08:42	1°♏58'30	
morning set	9766 Nov 14 15:25	21°♏42'11	
	9766 Nov 18 13:00	0°♐	
superior conj	9766 Nov 21 17:37	6°♐47'46	1°38'45
minimum elong	9766 Nov 21 18:29	6°♐52'21	1°39'04
max. Earth dist.	9766 Nov 25 11:14	14°♐34'05	1.34326 AU
evening rise	9766 Nov 29 21:38	23°♐23'40	
	9766 Dec 03 09:36	0°♑	
desc. node	9766 Dec 08 09:35	8°♑52'52	
	9766 Dec 22 01:52	0°♒	
evening max el	9767 Jan 03 20:46	15°♒11'01	26°58'56
retrograde	9767 Jan 17 03:24	22°♒31'46	
evening set	9767 Jan 23 18:20	19°♒57'20	
min. Earth dist.	9767 Jan 27 17:55	16°♒04'22	0.65615 AU
inferior conj	9767 Jan 29 20:00	13°♒41'12	-0°29'51
minimum elong	9767 Jan 29 20:51	13°♒38'45	0°29'12
asc. node	9767 Jan 31 07:54	12°♒00'27	

morning rise	9767 Feb 05 00:36	8°♒05'39	
direct	9767 Feb 07 19:02	7°♒24'02	
morning max el	9767 Feb 14 04:57	10°♒47'44	18°07'27
	9767 Feb 27 18:00	0°♓	
morning set	9767 Mar 04 18:49	8°♓10'23	
desc. node	9767 Mar 06 09:27	10°♓47'14	
	9767 Mar 18 09:33	0°♈	
superior conj	9767 Mar 19 16:16	2°♈01'03	-1°27'48
minimum elong	9767 Mar 19 07:03	1°♈24'47	1°26'45
max. Earth dist.	9767 Mar 22 05:09	6°♈00'04	1.45536 AU
evening rise	9767 Apr 04 19:28	27°♈09'46	
	9767 Apr 06 15:24	0°♉	
greatest brilliancy	9767 Apr 17 07:56	16°♉23'34	-0.7m
	9767 Apr 27 04:41	0°♊	
evening max el	9767 Apr 29 04:56	2°♊11'55	19°25'04
asc. node	9767 Apr 29 06:14	2°♊15'11	
retrograde	9767 May 06 08:02	6°♊13'58	
evening set	9767 May 09 22:27	4°♊58'16	
	9767 May 14 15:42	30°℞♉	
inferior conj	9767 May 15 08:20	29°♉05'44	3°19'36
minimum elong	9767 May 15 08:10	29°♉06'18	3°19'18
min. Earth dist.	9767 May 16 15:44	27°♉22'48	0.66904 AU
morning rise	9767 May 20 17:30	22°♉46'10	
direct	9767 May 26 20:14	20°♉04'27	
desc. node	9767 Jun 02 09:41	22°♉28'37	
morning max el	9767 Jun 08 06:32	27°♉30'37	25°47'00
	9767 Jun 10 14:43	0°♊	
	9767 Jul 02 06:24	0°♋	
morning set	9767 Jul 14 08:38	20°♋42'37	
max. Earth dist.	9767 Jul 18 02:38	27°♋43'20	1.35670 AU
	9767 Jul 19 07:06	0°♌	
superior conj	9767 Jul 23 19:57	8°♌57'41	-0°23'24
minimum elong	9767 Jul 23 21:22	9°♌04'49	0°23'27
asc. node	9767 Jul 26 05:25	13°♌49'39	
evening rise	9767 Jul 31 17:36	25°♌10'10	
	9767 Aug 03 02:43	0°♍	
evening max el	9767 Aug 18 16:25	24°♍38'14	20°12'03
retrograde	9767 Aug 29 09:25	29°♍56'49	
desc. node	9767 Aug 29 08:23	29°♍56'49	
evening set	9767 Aug 31 08:21	29°♍46'58	
inferior conj	9767 Sep 09 10:05	25°♍48'30	-3°19'14
minimum elong	9767 Sep 09 01:24	26°♍01'22	3°16'21
min. Earth dist.	9767 Sep 11 00:08	24°♍52'14	0.54921 AU
morning rise	9767 Sep 17 17:29	21°♍39'51	
direct	9767 Sep 22 03:35	20°♍57'39	
morning max el	9767 Oct 05 16:35	27°♍34'08	23°57'31
	9767 Oct 08 02:16	0°♎	
asc. node	9767 Oct 22 05:35	20°♎44'38	
	9767 Oct 27 00:11	0°♏	
morning set	9767 Oct 30 03:08	6°♏30'56	
superior conj	9767 Nov 06 00:26	21°♏27'41	1°40'10
minimum elong	9767 Nov 06 00:06	21°♏25'51	1°40'25
max. Earth dist.	9767 Nov 08 09:44	26°♏36'31	1.32943 AU
	9767 Nov 10 00:06	0°♐	
evening rise	9767 Nov 13 12:32	7°♐15'10	
desc. node	9767 Nov 25 06:39	28°♐55'03	
	9767 Nov 25 22:17	0°♑	
evening max el	9767 Dec 17 09:11	28°♑31'36	27°27'04
	9767 Dec 18 23:53	0°♒	
retrograde	9767 Dec 31 00:30	5°♒52'19	
evening set	9768 Jan 06 23:16	3°♒20'27	
	9768 Jan 10 18:03	30°℞♑	
min. Earth dist.	9768 Jan 10 18:13	29°♑59'36	0.63960 AU
inferior conj	9768 Jan 13 07:44	27°♑20'25	-1°37'17

minimum elong	9768 Jan	13	10:48	27°♑12'27	1°35'40
asc. node	9768 Jan	18	05:00	22°♑57'26	
morning rise	9768 Jan	20	00:11	21°♑59'40	
direct	9768 Jan	22	10:58	21°♑29'45	
morning max el	9768 Jan	28	22:20	24°♑51'10	17°49'36
	9768 Feb	02	04:43	0°♒	
morning set	9768 Feb	14	15:28	20°♒10'48	
	9768 Feb	20	10:46	0°♓	
desc. node	9768 Feb	21	06:19	1°♓21'42	
superior conj	9768 Feb	27	14:30	11°♓47'44	-0°45'44
minimum elong	9768 Feb	27	09:29	11°♓27'23	0°44'52
max. Earth dist.	9768 Mar	04	00:30	20°♓28'39	1.44829 AU
	9768 Mar	10	02:15	0°♈	
evening rise	9768 Mar	14	07:36	6°♈31'00	
	9768 Mar	30	00:01	0°♉	
evening max el	9768 Apr	11	07:26	15°♉52'58	20°24'12
asc. node	9768 Apr	15	03:22	19°♉06'30	
retrograde	9768 Apr	19	06:41	20°♉30'54	
evening set	9768 Apr	23	06:13	18°♉59'41	
inferior conj	9768 Apr	28	13:30	12°♉53'50	3°11'44
minimum elong	9768 Apr	28	12:19	12°♉57'52	3°11'23
min. Earth dist.	9768 Apr	29	06:43	11°♉54'55	0.67904 AU
morning rise	9768 May	03	18:12	6°♉36'24	
direct	9768 May	09	08:40	4°♉06'52	
desc. node	9768 May	19	06:37	9°♉31'29	
morning max el	9768 May	20	16:03	10°♉53'11	24°21'50
	9768 Jun	04	21:08	0°♊	
	9768 Jun	23	23:45	0°♋	
morning set	9768 Jun	25	09:08	2°♋24'10	
max. Earth dist.	9768 Jun	29	00:54	8°♋52'45	1.37793 AU
superior conj	9768 Jul	06	01:44	21°♋59'36	-0°56'10
minimum elong	9768 Jul	06	05:22	22°♋17'05	0°55'54
	9768 Jul	10	04:12	0°♌	
asc. node	9768 Jul	12	02:21	3°♌48'43	
evening rise	9768 Jul	14	19:00	9°♌10'01	
	9768 Jul	26	08:32	0°♍	
evening max el	9768 Jul	31	09:05	6°♍13'28	19°09'54
retrograde	9768 Aug	09	10:14	10°♍43'06	
evening set	9768 Aug	11	06:58	10°♍32'27	
desc. node	9768 Aug	15	05:33	9°♍07'39	
inferior conj	9768 Aug	19	18:28	6°♍20'41	-1°24'20
minimum elong	9768 Aug	19	14:46	6°♍26'56	1°23'03
min. Earth dist.	9768 Aug	22	13:16	4°♍28'22	0.56080 AU
morning rise	9768 Aug	27	19:36	1°♍36'56	
direct	9768 Sep	02	01:10	0°♍33'35	
morning max el	9768 Sep	16	05:01	7°♍46'10	25°39'34
	9768 Oct	02	15:50	0°♎	
asc. node	9768 Oct	08	02:29	9°♎59'51	
morning set	9768 Oct	13	14:30	21°♎16'04	
	9768 Oct	17	14:48	0°♏	
superior conj	9768 Oct	20	10:43	6°♏15'16	1°35'28
minimum elong	9768 Oct	20	09:23	6°♏07'54	1°35'35
max. Earth dist.	9768 Oct	21	14:59	8°♏51'08	1.32016 AU
evening rise	9768 Oct	27	12:08	21°♏29'05	
	9768 Oct	31	17:32	0°♐	
desc. node	9768 Nov	11	03:45	18°♐30'54	
	9768 Nov	18	22:48	0°♑	
evening max el	9768 Nov	28	18:23	11°♑19'35	27°25'15
retrograde	9768 Dec	12	14:31	18°♑35'36	
evening set	9768 Dec	19	15:46	16°♑15'15	
min. Earth dist.	9768 Dec	23	08:31	13°♑21'03	0.62027 AU
inferior conj	9768 Dec	26	07:43	10°♑37'09	-2°49'58
minimum elong	9768 Dec	26	13:18	10°♑24'15	2°47'30
morning rise	9769 Jan	02	13:14	5°♑34'18	
asc. node	9769 Jan	04	02:06	5°♑14'36	
direct	9769 Jan	04	18:45	5°♑12'26	
morning max el	9769 Jan	11	15:14	8°♑41'09	17°49'31
	9769 Jan	25	14:44	0°♒	
morning set	9769 Jan	27	10:01	3°♒13'20	
desc. node	9769 Feb	07	03:10	22°♒02'20	
superior conj	9769 Feb	07	13:16	22°♒45'20	-0°03'11
minimum elong	9769 Feb	07	12:59	22°♒44'07	0°02'53
behind sun begin	9769 Feb	07	04:23	22°♒07'33	
behind sun end	9769 Feb	07	21:35	23°♒20'37	
	9769 Feb	11	21:04	0°♓	
max. Earth dist.	9769 Feb	14	16:17	4°♓35'06	1.43468 AU
evening rise	9769 Feb	21	22:37	16°♓07'25	
	9769 Mar	03	01:24	0°♈	
evening max el	9769 Mar	25	04:24	29°♈35'03	21°35'21
	9769 Mar	25	14:24	0°♉	
asc. node	9769 Apr	02	00:32	4°♉47'38	
retrograde	9769 Apr	03	04:55	4°♉54'36	
evening set	9769 Apr	07	14:33	3°♉08'08	
	9769 Apr	10	13:39	30°℞♈	
inferior conj	9769 Apr	12	21:36	26°♈51'16	2°53'02
minimum elong	9769 Apr	12	19:43	26°♈57'50	2°52'32
min. Earth dist.	9769 Apr	13	01:43	26°♈36'56	0.68452 AU
morning rise	9769 Apr	18	00:41	20°♈37'49	
direct	9769 Apr	23	01:43	18°♈26'27	
morning max el	9769 May	03	02:18	24°♈22'44	22°51'51
desc. node	9769 May	06	03:33	27°♈40'40	
	9769 May	08	02:42	0°♉	
	9769 May	29	07:25	0°♊	
morning set	9769 Jun	06	09:38	12°♊58'14	
max. Earth dist.	9769 Jun	10	21:30	20°♊31'49	1.40069 AU
	9769 Jun	16	07:17	0°♋	
superior conj	9769 Jun	18	16:00	4°♋16'11	-1°28'05
minimum elong	9769 Jun	18	21:39	4°♋41'58	1°27'42
evening rise	9769 Jun	28	11:30	22°♋41'48	
asc. node	9769 Jun	28	23:19	23°♋38'02	
	9769 Jul	02	08:25	0°♌	
evening max el	9769 Jul	14	12:34	18°♌31'06	18°28'52
retrograde	9769 Jul	22	05:24	22°♌22'15	
evening set	9769 Jul	24	07:50	22°♌05'54	
inferior conj	9769 Jul	31	23:56	17°♌34'50	0°20'13
minimum elong	9769 Aug	01	00:40	17°♌33'23	0°19'41
desc. node	9769 Aug	02	02:42	16°♌41'37	
min. Earth dist.	9769 Aug	04	07:56	14°♌57'55	0.57924 AU
morning rise	9769 Aug	08	13:56	12°♌14'22	
direct	9769 Aug	14	13:37	10°♌42'15	
morning max el	9769 Aug	28	22:26	18°♌20'59	27°00'09
	9769 Sep	07	16:58	0°♍	
asc. node	9769 Sep	24	23:22	29°♍36'20	
	9769 Sep	25	04:02	0°♎	
morning set	9769 Sep	27	23:54	5°♎52'44	
superior conj	9769 Oct	04	22:28	21°♎04'21	1°25'10
minimum elong	9769 Oct	04	20:28	20°♎53'14	1°25'03
max. Earth dist.	9769 Oct	05	00:03	21°♎13'07	1.31559 AU
	9769 Oct	08	23:20	0°♏	
evening rise	9769 Oct	11	17:48	5°♏58'20	
	9769 Oct	24	07:37	0°♐	
desc. node	9769 Oct	29	00:52	7°♐30'00	
evening max el	9769 Nov	10	21:59	23°♐24'07	26°49'48
	9769 Nov	21	04:28	0°♑	
retrograde	9769 Nov	24	20:15	0°♑33'05	
	9769 Nov	28	10:20	30°℞♐	
evening set	9769 Dec	01	15:57	28°♐34'38	
min. Earth dist.	9769 Dec	05	12:19	25°♐56'50	0.59935 AU

inferior conj	9769 Dec 08 16:35	23°♐23'01	-4°02'36
minimum elong	9769 Dec 09 00:07	23°♐07'48	3°59'57
morning rise	9769 Dec 16 10:53	18°♐40'47	
direct	9769 Dec 18 14:32	18°♐23'25	
asc. node	9769 Dec 21 23:10	19°♐07'52	
morning max el	9769 Dec 26 04:11	22°♐08'33	18°08'20
	9770 Jan 01 06:05	0°♑	
morning set	9770 Jan 10 20:17	16°♑59'48	
	9770 Jan 17 19:57	0°♒	
superior conj	9770 Jan 20 12:17	4°♒51'28	0°33'43
minimum elong	9770 Jan 20 14:45	5°♒02'31	0°33'39
desc. node	9770 Jan 25 00:04	12°♒45'52	
max. Earth dist.	9770 Jan 28 03:19	18°♒06'31	1.41616 AU
evening rise	9770 Feb 02 05:28	26°♒29'41	
	9770 Feb 04 10:02	0°♓	
	9770 Feb 24 19:22	0°♈	
evening max el	9770 Mar 07 21:03	13°♈19'45	22°53'56
retrograde	9770 Mar 18 01:01	19°♈20'40	
asc. node	9770 Mar 19 21:43	19°♈03'40	
evening set	9770 Mar 22 21:54	17°♈19'30	
inferior conj	9770 Mar 28 06:37	10°♈54'46	2°24'40
minimum elong	9770 Mar 28 04:25	11°♈02'24	2°24'01
min. Earth dist.	9770 Mar 27 22:29	11°♈22'59	0.68562 AU
morning rise	9770 Apr 02 10:49	4°♈46'41	
direct	9770 Apr 06 22:14	2°♈56'41	
morning max el	9770 Apr 15 16:32	8°♈01'17	21°26'02
desc. node	9770 Apr 23 00:27	16°♈37'57	
	9770 May 02 15:01	0°♉	
morning set	9770 May 17 07:12	22°♉18'43	
	9770 May 22 02:15	0°♊	
max. Earth dist.	9770 May 23 23:06	3°♊03'23	1.42227 AU
superior conj	9770 May 31 10:10	15°♊37'42	-1°54'57
minimum elong	9770 May 31 16:14	16°♊03'53	1°54'47
	9770 Jun 08 13:07	0°♋	
evening rise	9770 Jun 11 15:13	5°♋35'58	
asc. node	9770 Jun 15 20:20	13°♋13'01	
	9770 Jun 26 16:07	0°♌	
evening max el	9770 Jun 27 22:54	1°♌21'48	18°07'57
retrograde	9770 Jul 04 18:38	4°♌49'46	
evening set	9770 Jul 07 04:53	4°♌23'51	
	9770 Jul 13 14:22	30°℞♋	
inferior conj	9770 Jul 14 02:31	29°♋32'13	1°40'04
minimum elong	9770 Jul 14 05:13	29°♋26'01	1°38'52
min. Earth dist.	9770 Jul 17 09:39	26°♋31'40	0.60139 AU
desc. node	9770 Jul 19 23:52	24°♋27'34	
morning rise	9770 Jul 21 02:39	23°♋43'02	
direct	9770 Jul 27 14:54	21°♋40'52	
morning max el	9770 Aug 10 22:41	29°♋35'34	27°46'54
	9770 Aug 11 08:28	0°♌	
	9770 Sep 01 16:56	0°♍	
asc. node	9770 Sep 11 20:15	19°♍26'57	
morning set	9770 Sep 12 05:27	20°♍14'51	
	9770 Sep 16 18:42	0°♎	
max. Earth dist.	9770 Sep 18 09:19	3°♎32'27	1.31583 AU
superior conj	9770 Sep 19 09:48	5°♎47'56	1°09'35
minimum elong	9770 Sep 19 07:33	5°♎35'29	1°09'15
evening rise	9770 Sep 26 03:15	20°♎35'24	
	9770 Sep 30 15:59	0°♏	
desc. node	9770 Oct 15 22:03	25°♏36'52	
	9770 Oct 19 09:39	0°♐	
evening max el	9770 Oct 23 17:48	4°♐37'04	25°41'38
retrograde	9770 Nov 06 15:33	11°♐38'16	
evening set	9770 Nov 12 18:54	10°♐10'39	
min. Earth dist.	9770 Nov 17 06:16	7°♐34'02	0.57872 AU
inferior conj	9770 Nov 20 06:51	5°♐27'03	-5°05'02
minimum elong	9770 Nov 20 13:54	5°♐14'38	5°03'21
morning rise	9770 Nov 28 11:15	1°♐07'16	
direct	9770 Nov 30 18:03	0°♐50'59	
asc. node	9770 Dec 08 20:14	4°♐30'55	
morning max el	9770 Dec 09 09:20	5°♐01'34	18°47'58
	9770 Dec 25 01:58	0°♑	
morning set	9770 Dec 25 17:21	1°♑15'04	
superior conj	9771 Jan 03 07:07	17°♑52'58	1°02'25
minimum elong	9771 Jan 03 10:19	18°♑08'07	1°02'21
	9771 Jan 09 21:37	0°♒	
max. Earth dist.	9771 Jan 10 10:35	0°♒57'20	1.39476 AU
desc. node	9771 Jan 11 20:59	3°♒28'05	
evening rise	9771 Jan 14 09:35	7°♒48'19	
	9771 Jan 28 09:42	0°♓	
evening max el	9771 Feb 18 11:13	27°♓07'41	24°14'07
	9771 Feb 21 15:05	0°♈	
retrograde	9771 Mar 01 17:41	3°♈44'07	
asc. node	9771 Mar 06 18:56	1°♈45'29	
evening set	9771 Mar 07 02:41	1°♈29'27	
	9771 Mar 08 15:40	30°℞♓	
min. Earth dist.	9771 Mar 11 18:41	26°♓07'55	0.68245 AU
inferior conj	9771 Mar 12 14:40	25°♓00'35	1°47'09
minimum elong	9771 Mar 12 12:35	25°♓07'35	1°46'30
morning rise	9771 Mar 17 22:33	18°♓59'24	
direct	9771 Mar 21 20:55	17°♓31'22	
morning max el	9771 Mar 29 13:51	21°♓51'55	20°10'56
	9771 Apr 05 10:14	0°♈	
desc. node	9771 Apr 09 21:19	6°♈10'01	
	9771 Apr 25 20:06	0°♉	
morning set	9771 Apr 26 08:35	0°♉48'04	
max. Earth dist.	9771 May 06 08:28	16°♉29'28	1.43988 AU
superior conj	9771 May 12 04:30	25°♉56'43	-2°10'53
minimum elong	9771 May 12 07:20	26°♉08'19	2°11'07
	9771 May 14 15:25	0°♊	
evening rise	9771 May 25 01:27	17°♊42'13	
	9771 Jun 01 05:31	0°♋	
asc. node	9771 Jun 02 17:23	2°♋28'26	
evening max el	9771 Jun 11 12:20	14°♋36'11	18°06'16
retrograde	9771 Jun 17 22:14	17°♋56'31	
evening set	9771 Jun 20 16:12	17°♋18'26	
inferior conj	9771 Jun 26 22:56	12°♋07'26	2°33'43
minimum elong	9771 Jun 27 01:38	12°♋00'19	2°32'42
min. Earth dist.	9771 Jun 29 20:08	9°♋06'53	0.62390 AU
morning rise	9771 Jul 03 09:10	5°♋59'53	
desc. node	9771 Jul 06 21:00	4°♋06'33	
direct	9771 Jul 10 02:34	3°♋33'12	
morning max el	9771 Jul 24 05:02	11°♋35'16	27°55'14
	9771 Aug 07 17:44	0°♌	
	9771 Aug 25 01:46	0°♍	
morning set	9771 Aug 27 05:11	4°♍17'33	
asc. node	9771 Aug 29 17:07	9°♍27'06	
max. Earth dist.	9771 Sep 01 15:04	15°♍39'21	1.32099 AU
superior conj	9771 Sep 03 18:55	20°♍21'08	0°49'01
minimum elong	9771 Sep 03 16:56	20°♍10'17	0°48'34
	9771 Sep 08 04:28	0°♎	
evening rise	9771 Sep 10 14:36	5°♎15'05	
	9771 Sep 23 14:22	0°♏	
desc. node	9771 Oct 02 19:13	12°♏31'23	
evening max el	9771 Oct 05 06:17	15°♏04'14	24°09'22
retrograde	9771 Oct 18 22:35	21°♏55'14	
evening set	9771 Oct 23 21:09	21°♏01'37	
min. Earth dist.	9771 Oct 29 16:57	18°♏07'30	0.56107 AU
inferior conj	9771 Nov 01 00:32	16°♏42'12	-5°40'13

minimum elong	9771 Nov 01 02:40	16°♏38'56	5°39'51
morning rise	9771 Nov 09 10:13	12°♏43'30	
direct	9771 Nov 12 02:13	12°♏25'00	
morning max el	9771 Nov 22 03:03	17°♏10'04	19°50'08
asc. node	9771 Nov 25 17:13	21°♏09'37	
	9771 Dec 01 14:25	0°♐	
morning set	9771 Dec 09 21:36	15°♐48'38	
	9771 Dec 16 21:33	0°♑	
superior conj	9771 Dec 17 16:52	1°♑36'14	1°22'38
minimum elong	9771 Dec 17 19:33	1°♑49'34	1°22'45
max. Earth dist.	9771 Dec 23 16:56	13°♑11'25	1.37293 AU
evening rise	9771 Dec 27 10:32	20°♑01'00	
desc. node	9771 Dec 29 17:56	24°♑05'23	
	9772 Jan 02 05:07	0°♒	
	9772 Jan 22 11:27	0°♓	
evening max el	9772 Feb 01 00:28	10°♓56'46	25°29'01
retrograde	9772 Feb 13 05:54	17°♓59'29	
evening set	9772 Feb 19 03:19	15°♓33'34	
asc. node	9772 Feb 21 16:07	13°♓01'01	
min. Earth dist.	9772 Feb 23 12:07	10°♓46'59	0.67523 AU
inferior conj	9772 Feb 24 19:50	9°♓05'09	1°00'44
minimum elong	9772 Feb 24 18:25	9°♓09'43	1°00'21
morning rise	9772 Mar 01 09:56	3°♓12'25	
direct	9772 Mar 04 20:13	2°♓04'56	
morning max el	9772 Mar 11 19:06	5°♓53'42	19°10'12
greatest brilliancy	9772 Mar 24 22:26	23°♓22'17	-0.7m
desc. node	9772 Mar 26 18:08	26°♓07'16	
	9772 Mar 29 07:12	0°♈	
morning set	9772 Apr 04 10:16	9°♈26'16	
	9772 Apr 17 15:10	0°♉	
max. Earth dist.	9772 Apr 17 23:54	0°♉34'18	1.45153 AU
superior conj	9772 Apr 20 23:31	5°♉16'52	-2°09'34
minimum elong	9772 Apr 20 19:19	5°♉00'16	2°09'39
evening rise	9772 May 05 13:38	28°♉50'30	
	9772 May 06 06:32	0°♊	
asc. node	9772 May 19 14:29	21°♊16'32	
evening max el	9772 May 25 01:31	28°♊04'37	18°23'05
	9772 May 27 07:26	0°♋	
retrograde	9772 May 31 11:31	1°♋31'33	
evening set	9772 Jun 03 13:05	0°♋39'39	
	9772 Jun 04 13:45	30°℞♊	
inferior conj	9772 Jun 09 08:55	25°♊11'14	3°05'02
minimum elong	9772 Jun 09 10:40	25°♊06'07	3°04'25
min. Earth dist.	9772 Jun 11 16:04	22°♊30'38	0.64434 AU
morning rise	9772 Jun 15 07:09	18°♊54'14	
direct	9772 Jun 21 22:45	16°♊12'47	
desc. node	9772 Jun 22 18:04	16°♊14'57	
morning max el	9772 Jul 05 14:57	24°♊12'27	27°27'19
	9772 Jul 10 19:57	0°♋	
	9772 Jul 31 03:19	0°♌	
morning set	9772 Aug 09 20:31	17°♌53'34	
max. Earth dist.	9772 Aug 14 13:21	27°♌23'31	1.33106 AU
asc. node	9772 Aug 15 13:59	29°♌31'55	
	9772 Aug 15 19:21	0°♍	
superior conj	9772 Aug 17 23:47	4°♍37'41	0°23'51
minimum elong	9772 Aug 17 22:39	4°♍31'33	0°23'26
evening rise	9772 Aug 25 01:54	19°♍51'12	
	9772 Aug 30 00:16	0°♎	
evening max el	9772 Sep 15 17:39	25°♎12'15	22°29'07
desc. node	9772 Sep 18 16:25	27°♎46'53	
	9772 Sep 22 03:27	0°♏	
retrograde	9772 Sep 28 17:44	1°♏41'14	
evening set	9772 Oct 02 04:13	1°♏15'12	
	9772 Oct 05 17:23	30°℞♎	
min. Earth dist.	9772 Oct 10 00:37	27°♎45'59	0.54942 AU
inferior conj	9772 Oct 11 00:27	27°♎12'16	-5°27'42
minimum elong	9772 Oct 10 18:36	27°♎20'33	5°26'50
morning rise	9772 Oct 19 10:45	23°♎24'50	
direct	9772 Oct 22 16:49	23°♎00'54	
morning max el	9772 Nov 03 07:26	28°♎28'40	21°14'31
	9772 Nov 04 20:06	0°♏	
asc. node	9772 Nov 11 14:09	8°♏48'22	
morning set	9772 Nov 23 06:22	0°♐32'47	
	9772 Nov 23 00:03	0°♐	
superior conj	9772 Nov 30 13:19	15°♐49'12	1°34'58
minimum elong	9772 Nov 30 14:54	15°♐57'25	1°35'13
max. Earth dist.	9772 Dec 05 02:56	25°♐05'17	1.35299 AU
	9772 Dec 07 15:20	0°♑	
evening rise	9772 Dec 09 05:08	2°♑59'44	
desc. node	9772 Dec 15 14:55	14°♑33'31	
	9772 Dec 25 03:49	0°♒	
evening max el	9773 Jan 13 13:45	24°♒42'20	26°31'31
	9773 Jan 20 05:34	0°♓	
retrograde	9773 Jan 26 13:02	2°♓00'22	
	9773 Feb 01 04:58	30°℞♒	
evening set	9773 Feb 01 22:04	29°♒27'12	
min. Earth dist.	9773 Feb 06 00:38	25°♒15'05	0.66411 AU
inferior conj	9773 Feb 07 20:07	23°♒04'39	0°05'40
minimum elong	9773 Feb 07 19:57	23°♒05'08	0°05'51
transit middle	9773 Feb 07 19:57	23°♒05'08	0°05'51
transit begin	9773 Feb 07 17:15	23°♒13'17	
transit end	9773 Feb 07 22:40	22°♒57'00	
asc. node	9773 Feb 07 13:15	23°♒25'19	
morning rise	9773 Feb 13 18:48	17°♒22'19	
direct	9773 Feb 16 18:28	16°♒32'24	
morning max el	9773 Feb 23 07:04	20°♒02'11	18°25'35
	9773 Mar 03 02:12	0°♓	
desc. node	9773 Mar 13 14:58	16°♓23'10	
morning set	9773 Mar 15 10:00	19°♓14'09	
	9773 Mar 22 05:06	0°♈	
superior conj	9773 Mar 31 05:44	14°♈09'57	-1°48'00
minimum elong	9773 Mar 30 20:23	13°♈33'25	1°47'16
max. Earth dist.	9773 Mar 31 18:41	15°♈00'36	1.45610 AU
	9773 Apr 10 08:30	0°♉	
evening rise	9773 Apr 16 02:02	9°♉01'03	
greatest brilliancy	9773 Apr 25 19:46	24°♉19'18	-0.8m
	9773 Apr 29 13:10	0°♊	
asc. node	9773 May 06 11:35	9°♊28'42	
evening max el	9773 May 08 11:53	11°♊41'18	18°57'36
retrograde	9773 May 15 06:39	15°♊27'27	
evening set	9773 May 18 16:07	14°♊20'46	
inferior conj	9773 May 24 04:44	8°♊36'40	3°18'29
minimum elong	9773 May 24 05:15	8°♊35'01	3°18'08
min. Earth dist.	9773 May 25 20:47	6°♊29'56	0.66127 AU
morning rise	9773 May 29 17:47	2°♊16'36	
	9773 Jun 02 09:53	30°℞♉	
direct	9773 Jun 05 02:20	29°♉31'42	
	9773 Jun 07 22:32	0°♊	
desc. node	9773 Jun 09 15:06	0°♊40'52	
morning max el	9773 Jun 18 01:41	7°♊15'16	26°29'45
	9773 Jul 05 16:43	0°♋	
	9773 Jul 23 12:38	0°♌	
morning set	9773 Jul 24 00:15	0°♌54'29	
max. Earth dist.	9773 Jul 28 01:14	8°♌41'33	1.34602 AU
superior conj	9773 Aug 01 22:05	18°♌31'33	-0°05'17
minimum elong	9773 Aug 01 22:24	18°♌33'10	0°05'31
behind sun begin	9773 Aug 01 16:51	18°♌04'34	
behind sun end	9773 Aug 02 03:57	19°♌01'49	

asc. node	9773 Aug 02 10:53	19°♌37'38	
	9773 Aug 07 09:48	0°♍	
evening rise	9773 Aug 09 11:10	4°♍18'22	
	9773 Aug 23 18:20	0°♎	
evening max el	9773 Aug 28 13:27	5°♎39'20	20°57'09
desc. node	9773 Sep 05 13:37	10°♎53'00	
retrograde	9773 Sep 09 05:50	11°♎26'53	
evening set	9773 Sep 11 12:22	11°♎14'38	
inferior conj	9773 Sep 20 16:40	7°♎18'41	-4°18'40
minimum elong	9773 Sep 20 06:51	7°♎32'35	4°15'57
min. Earth dist.	9773 Sep 21 08:59	6°♎55'30	0.54648 AU
morning rise	9773 Sep 29 01:33	3°♎23'15	
direct	9773 Oct 03 00:48	2°♎49'26	
morning max el	9773 Oct 16 00:20	9°♎02'50	22°55'57
asc. node	9773 Oct 29 11:04	27°♎13'16	
	9773 Oct 31 00:26	0°♏	
morning set	9773 Nov 07 17:29	15°♏21'01	
superior conj	9773 Nov 14 17:07	0°♐21'31	1°40'08
minimum elong	9773 Nov 14 17:27	0°♐23'21	1°40'26
	9773 Nov 14 13:06	0°♐	
max. Earth dist.	9773 Nov 17 20:25	6°♐59'52	1.33671 AU
evening rise	9773 Nov 22 13:38	16°♐34'37	
	9773 Nov 29 17:48	0°♑	
desc. node	9773 Dec 02 11:56	4°♑46'49	
	9773 Dec 19 15:17	0°♒	
evening max el	9773 Dec 27 02:51	8°♒15'11	27°14'19
retrograde	9774 Jan 09 14:10	15°♒37'42	
evening set	9774 Jan 16 08:45	13°♒03'19	
min. Earth dist.	9774 Jan 20 06:07	9°♒24'21	0.64940 AU
inferior conj	9774 Jan 22 13:11	6°♒52'57	-0°57'38
minimum elong	9774 Jan 22 14:55	6°♒48'11	0°56'34
asc. node	9774 Jan 25 10:23	3°♒53'25	
morning rise	9774 Jan 28 22:38	1°♒23'20	
direct	9774 Jan 31 13:26	0°♒47'18	
morning max el	9774 Feb 06 23:15	4°♒09'14	17°57'46
	9774 Feb 24 08:05	0°♓	
morning set	9774 Feb 24 15:06	0°♓29'06	
desc. node	9774 Feb 28 11:46	6°♓51'45	
superior conj	9774 Mar 10 17:19	23°♓24'29	-1°10'37
minimum elong	9774 Mar 10 09:30	22°♓53'25	1°09'34
max. Earth dist.	9774 Mar 14 14:09	29°♓31'20	1.45321 AU
	9774 Mar 14 21:27	0°♈	
evening rise	9774 Mar 26 19:29	18°♈30'14	
	9774 Apr 03 07:47	0°♉	
greatest brilliancy	9774 Apr 10 01:27	10°♉05'51	-0.6m
evening max el	9774 Apr 21 17:37	25°♉21'45	19°48'30
asc. node	9774 Apr 23 08:43	26°♉53'29	
retrograde	9774 Apr 29 04:39	29°♉38'05	
evening set	9774 May 02 22:45	28°♉16'00	
inferior conj	9774 May 08 07:15	22°♉17'46	3°17'40
minimum elong	9774 May 08 06:37	22°♉19'53	3°17'21
min. Earth dist.	9774 May 09 08:35	20°♉52'56	0.67391 AU
morning rise	9774 May 13 14:09	15°♉58'43	
direct	9774 May 19 12:00	13°♉20'55	
desc. node	9774 May 27 12:04	16°♉54'43	
morning max el	9774 May 31 11:28	20°♉32'08	25°11'48
	9774 Jun 08 14:35	0°♊	
	9774 Jun 28 20:55	0°♋	
morning set	9774 Jul 06 12:11	13°♋09'06	
max. Earth dist.	9774 Jul 10 02:55	19°♋45'14	1.36538 AU
	9774 Jul 15 11:30	0°♌	
superior conj	9774 Jul 16 10:58	1°♌55'33	-0°37'13
minimum elong	9774 Jul 16 13:18	2°♌07'03	0°37'07
asc. node	9774 Jul 20 07:48	9°♌40'29	

evening rise	9774 Jul 24 16:13	18°♌30'31	
	9774 Jul 30 12:54	0°♍	
evening max el	9774 Aug 10 22:43	16°♍49'02	19°43'05
retrograde	9774 Aug 20 22:12	21°♍45'31	
evening set	9774 Aug 22 18:44	21°♍36'02	
desc. node	9774 Aug 23 10:50	21°♍28'07	
inferior conj	9774 Aug 31 15:39	17°♍33'32	-2°30'52
minimum elong	9774 Aug 31 08:51	17°♍44'06	2°28'27
min. Earth dist.	9774 Sep 02 19:55	16°♍12'29	0.55312 AU
morning rise	9774 Sep 08 20:58	13°♍11'04	
direct	9774 Sep 13 15:34	12°♍20'37	
morning max el	9774 Sep 27 12:03	19°♍13'55	24°42'29
	9774 Oct 06 13:16	0°♎	
asc. node	9774 Oct 16 07:58	16°♎13'02	
morning set	9774 Oct 23 05:16	0°♏08'44	
	9774 Oct 23 03:38	0°♏	
superior conj	9774 Oct 30 01:41	15°♏05'36	1°38'52
minimum elong	9774 Oct 30 00:53	15°♏01'15	1°39'06
max. Earth dist.	9774 Oct 31 22:03	19°♏07'31	1.32490 AU
evening rise	9774 Nov 06 08:38	0°♐36'59	
	9774 Nov 06 01:24	0°♐	
desc. node	9774 Nov 19 09:01	24°♐38'52	
	9774 Nov 22 17:32	0°♑	
evening max el	9774 Dec 09 14:23	21°♑23'56	27°30'24
retrograde	9774 Dec 23 08:23	28°♑42'52	
evening set	9774 Dec 30 08:48	26°♑15'05	
min. Earth dist.	9775 Jan 03 02:31	23°♑06'07	0.63162 AU
inferior conj	9775 Jan 05 20:20	20°♑23'32	-2°07'42
minimum elong	9775 Jan 06 00:28	20°♑13'18	2°05'41
asc. node	9775 Jan 12 07:30	15°♑20'23	
morning rise	9775 Jan 12 18:14	15°♑09'41	
direct	9775 Jan 15 02:25	14°♑43'37	
morning max el	9775 Jan 21 16:44	18°♑07'16	17°47'18
	9775 Jan 30 07:50	0°♒	
morning set	9775 Feb 06 21:52	12°♒58'10	
desc. node	9775 Feb 15 08:36	27°♒28'50	
	9775 Feb 16 20:37	0°♓	
superior conj	9775 Feb 19 01:24	3°♓39'21	-0°27'16
minimum elong	9775 Feb 18 22:33	3°♓27'36	0°26'39
max. Earth dist.	9775 Feb 25 08:10	13°♓51'48	1.44326 AU
evening rise	9775 Mar 06 06:54	27°♓53'10	
	9775 Mar 07 15:58	0°♈	
	9775 Mar 28 05:02	0°♉	
evening max el	9775 Apr 04 17:51	9°♉03'40	20°53'17
asc. node	9775 Apr 10 05:53	13°♉16'59	
retrograde	9775 Apr 13 03:14	13°♉58'22	
evening set	9775 Apr 17 06:59	12°♉20'38	
inferior conj	9775 Apr 22 13:56	6°♉10'03	3°05'03
minimum elong	9775 Apr 22 12:25	6°♉15'18	3°04'37
min. Earth dist.	9775 Apr 23 01:29	5°♉30'06	0.68199 AU
morning rise	9775 Apr 27 17:37	29°♈54'18	
	9775 Apr 27 15:06	30°℞♈	
direct	9775 May 03 02:36	27°♈31'46	
	9775 May 09 08:38	0°♉	
morning max el	9775 May 13 20:47	3°♉56'55	23°43'30
desc. node	9775 May 14 09:01	4°♉28'12	
	9775 Jun 02 19:45	0°♊	
morning set	9775 Jun 18 03:05	24°♊23'16	
	9775 Jun 21 09:05	0°♋	
max. Earth dist.	9775 Jun 21 23:43	1°♋04'15	1.38765 AU
superior conj	9775 Jun 29 10:45	14°♋39'51	-1°10'01
minimum elong	9775 Jun 29 15:20	15°♋01'23	1°09'39
asc. node	9775 Jul 07 04:45	29°♋35'58	
	9775 Jul 07 09:41	0°♌	

evening rise	9775 Jul 08	14:17	2°♌19'39	
evening max el	9775 Jul 24	20:30	28°♌43'21	18°49'51
	9775 Jul 26	06:09	0°♍	
retrograde	9775 Aug 02	06:21	2°♍54'38	
evening set	9775 Aug 04	05:12	2°♍41'56	
desc. node	9775 Aug 10	08:03	29°♌47'16	
	9775 Aug 10	00:23	30°℞♌	
inferior conj	9775 Aug 12	08:36	28°♌22'08	-0°37'25
minimum elong	9775 Aug 12	07:02	28°♌24'57	0°37'02
min. Earth dist.	9775 Aug 15	10:54	26°♌09'04	0.56806 AU
morning rise	9775 Aug 20	05:35	23°♌22'40	
direct	9775 Aug 25	19:25	22°♌07'48	
morning max el	9775 Sep 09	01:57	29°♌31'46	26°17'21
	9775 Sep 09	13:32	0°♍	
	9775 Sep 30	06:52	0°♎	
asc. node	9775 Oct 03	04:51	5°♎37'53	
morning set	9775 Oct 07	16:00	14°♎50'27	
superior conj	9775 Oct 14	12:48	29°♎53'57	1°31'45
minimum elong	9775 Oct 14	11:09	29°♎44'44	1°31'46
	9775 Oct 14	13:54	0°♏	
max. Earth dist.	9775 Oct 15	05:32	1°♏26'40	1.31770 AU
evening rise	9775 Oct 21	11:07	14°♏57'57	
	9775 Oct 29	01:20	0°♐	
desc. node	9775 Nov 06	06:10	14°♐00'16	
	9775 Nov 18	02:50	0°♑	
evening max el	9775 Nov 21	21:42	3°♑54'43	27°14'24
retrograde	9775 Dec 05	18:40	11°♑06'52	
evening set	9775 Dec 12	18:49	8°♑54'46	
min. Earth dist.	9775 Dec 16	12:16	6°♑09'07	0.61149 AU
inferior conj	9775 Dec 19	14:19	3°♑27'52	-3°21'14
minimum elong	9775 Dec 19	20:53	3°♑13'31	3°18'35
	9775 Dec 24	00:17	30°℞♐	
morning rise	9775 Dec 27	01:23	28°♐33'14	
direct	9775 Dec 29	05:46	28°♐13'34	
asc. node	9775 Dec 30	04:35	28°♐17'25	
	9776 Jan 03	05:20	0°♑	
morning max el	9776 Jan 05	08:20	1°♑47'58	17°55'08
morning set	9776 Jan 20	23:46	26°♑21'10	
	9776 Jan 22	23:44	0°♒	
superior conj	9776 Jan 31	10:50	15°♒06'41	0°13'24
minimum elong	9776 Jan 31	12:00	15°♒11'45	0°13'31
behind sun begin	9776 Jan 31	07:33	14°♒52'26	
behind sun end	9776 Jan 31	16:26	15°♒31'03	
desc. node	9776 Feb 02	05:29	18°♒10'49	
max. Earth dist.	9776 Feb 07	22:36	27°♒46'39	1.42729 AU
	9776 Feb 09	07:10	0°♓	
evening rise	9776 Feb 14	03:28	7°♓46'11	
	9776 Feb 28	20:51	0°♈	
evening max el	9776 Mar 17	12:51	22°♈46'51	22°08'12
retrograde	9776 Mar 27	00:41	28°♈23'56	
asc. node	9776 Mar 27	03:05	28°♈23'53	
evening set	9776 Mar 31	15:07	26°♈30'52	
inferior conj	9776 Apr 05	22:39	20°♈10'19	2°42'10
minimum elong	9776 Apr 05	20:35	20°♈17'31	2°41'35
min. Earth dist.	9776 Apr 05	21:24	20°♈14'40	0.68551 AU
morning rise	9776 Apr 11	01:54	13°♈59'15	
direct	9776 Apr 15	21:08	11°♈56'53	
morning max el	9776 Apr 25	08:24	17°♈30'17	22°14'32
desc. node	9776 Apr 30	05:55	22°♈59'41	
	9776 May 05	16:04	0°♉	
	9776 May 25	21:51	0°♊	
morning set	9776 May 28	16:15	4°♊26'18	
max. Earth dist.	9776 Jun 02	22:37	13°♊07'31	1.41024 AU
superior conj	9776 Jun 10	17:07	26°♊34'44	-1°40'23
minimum elong	9776 Jun 10	23:15	27°♊02'06	1°40'03
	9776 Jun 12	14:53	0°♋	
evening rise	9776 Jun 21	01:58	15°♋37'28	
asc. node	9776 Jun 23	01:47	19°♋20'12	
	9776 Jun 29	00:28	0°♌	
evening max el	9776 Jul 07	03:22	11°♌16'12	18°17'24
retrograde	9776 Jul 14	09:51	14°♌55'50	
evening set	9776 Jul 16	15:30	14°♌35'49	
inferior conj	9776 Jul 23	23:23	9°♌55'34	0°57'24
minimum elong	9776 Jul 24	01:15	9°♌51'37	0°56'25
desc. node	9776 Jul 27	05:13	7°♌12'03	
min. Earth dist.	9776 Jul 27	08:15	7°♌05'56	0.58847 AU
morning rise	9776 Jul 31	07:40	4°♌21'27	
direct	9776 Aug 06	13:19	2°♌36'41	
morning max el	9776 Aug 20	22:29	10°♌22'55	27°24'37
	9776 Sep 05	02:26	0°♍	
asc. node	9776 Sep 19	01:45	25°♍20'55	
morning set	9776 Sep 21	00:00	29°♍21'29	
	9776 Sep 21	07:18	0°♎	
max. Earth dist.	9776 Sep 27	15:18	13°♎49'13	1.31517 AU
superior conj	9776 Sep 28	00:36	14°♎40'57	1°19'10
minimum elong	9776 Sep 27	22:26	14°♎28'57	1°18'57
evening rise	9776 Oct 04	18:40	29°♎30'50	
	9776 Oct 05	00:08	0°♏	
	9776 Oct 21	08:15	0°♐	
desc. node	9776 Oct 23	03:19	2°♐38'56	
evening max el	9776 Nov 02	21:58	15°♐36'20	26°24'18
retrograde	9776 Nov 16	20:01	22°♐42'06	
evening set	9776 Nov 23	10:30	20°♐55'33	
min. Earth dist.	9776 Nov 27	11:20	18°♐20'43	0.59040 AU
inferior conj	9776 Nov 30	15:33	15°♐56'10	-4°31'14
minimum elong	9776 Nov 30	23:20	15°♐41'23	4°28'51
morning rise	9776 Dec 08	14:41	11°♐23'44	
direct	9776 Dec 10	19:05	11°♐07'12	
asc. node	9776 Dec 16	01:39	12°♐49'47	
morning max el	9776 Dec 18	18:26	15°♐01'36	18°22'40
	9776 Dec 29	02:16	0°♑	
morning set	9777 Jan 03	15:06	10°♑20'43	
superior conj	9777 Jan 12	18:53	27°♑37'52	0°46'56
minimum elong	9777 Jan 12	21:52	27°♑51'32	0°46'51
	9777 Jan 14	02:02	0°♒	
desc. node	9777 Jan 19	02:22	8°♒53'48	
max. Earth dist.	9777 Jan 20	07:49	11°♒00'47	1.40716 AU
evening rise	9777 Jan 24	18:59	18°♒30'57	
	9777 Jan 31	23:32	0°♓	
	9777 Feb 22	07:53	0°♈	
evening max el	9777 Feb 28	03:58	6°♈31'43	23°28'16
retrograde	9777 Mar 10	19:33	12°♈49'17	
asc. node	9777 Mar 14	00:17	12°♈00'00	
evening set	9777 Mar 15	21:33	10°♈41'55	
inferior conj	9777 Mar 21	07:27	4°♈14'42	2°09'51
minimum elong	9777 Mar 21	05:14	4°♈22'16	2°09'11
min. Earth dist.	9777 Mar 20	18:09	5°♈00'22	0.68470 AU
	9777 Mar 24	14:56	30°℞♓	
morning rise	9777 Mar 26	12:54	28°♓09'28	
direct	9777 Mar 30	18:34	26°♓29'07	
	9777 Apr 06	18:14	0°♈	
morning max el	9777 Apr 08	01:30	1°♈13'58	20°52'37
desc. node	9777 Apr 17	02:46	12°♈12'39	
	9777 Apr 29	10:35	0°♉	
morning set	9777 May 08	03:36	13°♉20'02	
max. Earth dist.	9777 May 16	03:20	26°♉02'25	1.43032 AU
	9777 May 18	13:30	0°♊	
superior conj	9777 May 23	01:23	7°♊29'27	-2°03'25

minimum elong	9777 May 23 06:38	7°♊51'36	2°03'27
evening rise	9777 Jun 03 22:51	28°♊12'31	
	9777 Jun 04 23:00	0°♋	
asc. node	9777 Jun 09 22:48	8°♋47'36	
evening max el	9777 Jun 20 15:24	24°♋17'41	18°04'53
retrograde	9777 Jun 27 05:52	27°♋40'56	
evening set	9777 Jun 29 19:16	27°♋10'16	
inferior conj	9777 Jul 06 10:06	22°♋10'15	2°05'47
minimum elong	9777 Jul 06 12:58	22°♋03'14	2°04'36
min. Earth dist.	9777 Jul 09 13:49	19°♋06'41	0.61106 AU
morning rise	9777 Jul 13 04:08	16°♋11'39	
desc. node	9777 Jul 14 02:20	15°♋37'02	
direct	9777 Jul 19 19:21	13°♋57'57	
morning max el	9777 Aug 03 01:47	21°♋57'46	27°55'06
	9777 Aug 10 02:54	0°♌	
	9777 Aug 29 05:05	0°♍	
morning set	9777 Sep 05 03:25	13°♍36'37	
asc. node	9777 Sep 05 22:38	15°♍16'23	
max. Earth dist.	9777 Sep 10 23:31	26°♍04'34	1.31740 AU
superior conj	9777 Sep 12 11:15	29°♍21'07	1°01'27
minimum elong	9777 Sep 12 09:03	29°♍09'00	1°01'03
	9777 Sep 12 18:18	0°♎	
evening rise	9777 Sep 19 05:10	14°♎09'47	
	9777 Sep 27 01:19	0°♏	
desc. node	9777 Oct 10 00:30	20°♏18'19	
evening max el	9777 Oct 15 14:08	26°♏27'47	25°04'26
	9777 Oct 19 20:49	0°♐	
retrograde	9777 Oct 29 10:50	3°♐26'18	
evening set	9777 Nov 04 03:14	2°♐13'10	
	9777 Nov 08 07:43	30°℞♏	
min. Earth dist.	9777 Nov 09 01:53	29°♏31'18	0.57062 AU
inferior conj	9777 Nov 11 21:09	27°♏40'12	-5°24'35
minimum elong	9777 Nov 12 02:44	27°♏30'57	5°23'31
morning rise	9777 Nov 20 04:32	23°♏30'10	
direct	9777 Nov 22 14:16	23°♏13'30	
morning max el	9777 Dec 01 19:16	27°♏37'50	19°11'39
asc. node	9777 Dec 02 22:39	28°♏47'22	
	9777 Dec 04 00:30	0°♐	
morning set	9777 Dec 18 15:36	24°♐44'56	
	9777 Dec 21 06:50	0°♑	
superior conj	9777 Dec 26 20:40	10°♑59'11	1°12'00
minimum elong	9777 Dec 26 23:46	11°♑14'07	1°12'00
max. Earth dist.	9778 Jan 02 13:41	23°♑32'41	1.38531 AU
desc. node	9778 Jan 05 23:17	29°♑34'36	
evening rise	9778 Jan 06 08:18	0°♒13'44	
	9778 Jan 06 05:08	0°♒	
	9778 Jan 25 07:13	0°♓	
evening max el	9778 Feb 10 17:27	20°♓19'58	24°47'04
retrograde	9778 Feb 22 10:34	27°♓09'40	
evening set	9778 Feb 28 00:45	24°♓49'54	
asc. node	9778 Feb 28 21:27	24°♓02'38	
min. Earth dist.	9778 Mar 04 13:32	19°♓43'03	0.67981 AU
inferior conj	9778 Mar 05 14:29	18°♓20'20	1°28'32
minimum elong	9778 Mar 05 12:38	18°♓26'30	1°27'58
morning rise	9778 Mar 11 00:42	12°♓22'20	
direct	9778 Mar 14 17:41	11°♓03'24	
morning max el	9778 Mar 22 02:10	15°♓09'19	19°43'09
	9778 Apr 02 15:44	0°♈	
desc. node	9778 Apr 03 23:35	1°♈56'05	
greatest brilliancy	9778 Apr 03 20:24	1°♈44'25	-0.6m
morning set	9778 Apr 17 01:51	21°♈43'10	
	9778 Apr 22 10:10	0°♉	
max. Earth dist.	9778 Apr 28 14:49	9°♉43'56	1.44560 AU
superior conj	9778 May 03 09:11	17°♉21'03	-2°12'46
minimum elong	9778 May 03 09:18	17°♉21'30	2°13'02
	9778 May 11 02:35	0°♊	
evening rise	9778 May 17 00:05	9°♊53'59	
asc. node	9778 May 27 19:52	27°♊52'06	
	9778 May 29 05:23	0°♋	
evening max el	9778 Jun 04 05:04	7°♋38'45	18°11'17
retrograde	9778 Jun 10 13:55	11°♋00'08	
evening set	9778 Jun 13 11:05	10°♋16'25	
inferior conj	9778 Jun 19 12:44	4°♋58'09	2°49'24
minimum elong	9778 Jun 19 15:06	4°♋51'37	2°48'34
min. Earth dist.	9778 Jun 22 04:24	2°♋03'38	0.63294 AU
	9778 Jun 24 06:14	30°℞♊	
morning rise	9778 Jun 25 17:33	28°♊45'38	
desc. node	9778 Jun 30 23:25	26°♊18'10	
direct	9778 Jul 02 11:05	26°♊10'56	
	9778 Jul 11 15:28	0°♋	
morning max el	9778 Jul 16 09:49	4°♋13'54	27°47'25
	9778 Aug 04 17:53	0°♌	
morning set	9778 Aug 19 23:54	27°♌28'53	
	9778 Aug 21 05:48	0°♍	
asc. node	9778 Aug 23 19:29	5°♍18'59	
max. Earth dist.	9778 Aug 25 02:18	8°♍01'41	1.32461 AU
superior conj	9778 Aug 27 18:50	13°♍48'13	0°38'54
minimum elong	9778 Aug 27 17:08	13°♍38'59	0°38'25
evening rise	9778 Sep 03 16:42	28°♍48'33	
	9778 Sep 04 06:06	0°♎	
	9778 Sep 21 04:49	0°♏	
desc. node	9778 Sep 26 21:42	6°♏34'45	
evening max el	9778 Sep 27 01:15	6°♏43'22	23°26'45
retrograde	9778 Oct 10 12:43	13°♏26'52	
evening set	9778 Oct 14 19:47	12°♏46'42	
min. Earth dist.	9778 Oct 21 11:10	9°♏39'25	0.55519 AU
inferior conj	9778 Oct 23 06:39	8°♏35'24	-5°41'46
minimum elong	9778 Oct 23 05:26	8°♏37'13	5°41'31
morning rise	9778 Oct 31 16:57	4°♏42'51	
direct	9778 Nov 03 14:22	4°♏22'27	
morning max el	9778 Nov 14 07:24	9°♏25'32	20°23'20
asc. node	9778 Nov 19 19:37	15°♏53'29	
	9778 Nov 28 05:04	0°♐	
morning set	9778 Dec 02 22:04	9°♐23'43	
superior conj	9778 Dec 10 11:26	24°♐56'11	1°28'47
minimum elong	9778 Dec 10 13:42	25°♐07'38	1°28'57
	9778 Dec 13 00:08	0°♑	
max. Earth dist.	9778 Dec 15 20:56	5°♑35'03	1.36415 AU
evening rise	9778 Dec 19 17:16	12°♑47'27	
desc. node	9778 Dec 23 20:16	20°♑08'32	
	9778 Dec 29 17:38	0°♒	
	9779 Jan 20 08:17	0°♓	
evening max el	9779 Jan 24 06:50	4°♓08'41	25°57'37
retrograde	9779 Feb 05 20:41	11°♓19'02	
evening set	9779 Feb 11 23:04	8°♓49'47	
asc. node	9779 Feb 15 18:37	4°♓50'11	
min. Earth dist.	9779 Feb 16 05:14	4°♓17'38	0.67096 AU
inferior conj	9779 Feb 17 17:50	2°♓23'08	0°38'25
minimum elong	9779 Feb 17 16:53	2°♓26'09	0°38'14
	9779 Feb 19 16:59	30°℞♒	
morning rise	9779 Feb 23 11:17	26°♒34'15	
direct	9779 Feb 26 16:53	25°♒34'32	
morning max el	9779 Mar 05 10:24	29°♒13'50	18°49'07
	9779 Mar 06 04:31	0°♓	
desc. node	9779 Mar 21 20:24	22°♓01'46	
	9779 Mar 26 23:19	0°♈	
morning set	9779 Mar 27 10:55	0°♈45'13	
max. Earth dist.	9779 Apr 11 07:56	23°♈59'28	1.45438 AU

superior conj	9779 Apr 12 20:51	26°♈24'14	-2°02'49
minimum elong	9779 Apr 12 13:47	25°♈56'29	2°02'34
	9779 Apr 15 03:44	0°♉	
evening rise	9779 Apr 28 01:58	20°♉36'17	
	9779 May 03 21:41	0°♊	
greatest brilliancy	9779 May 03 11:16	29°♉18'05	-0.9m
asc. node	9779 May 14 16:57	16°♊26'05	
evening max el	9779 May 18 17:24	21°♊11'43	18°35'47
retrograde	9779 May 25 06:00	24°♊44'59	
evening set	9779 May 28 10:57	23°♊46'45	
inferior conj	9779 Jun 03 03:17	18°♊11'36	3°12'40
minimum elong	9779 Jun 03 04:32	18°♊07'51	3°12'11
min. Earth dist.	9779 Jun 05 04:03	15°♊44'11	0.65203 AU
morning rise	9779 Jun 08 21:17	11°♊53'00	
direct	9779 Jun 15 10:36	9°♊08'39	
desc. node	9779 Jun 17 20:27	9°♊28'10	
morning max el	9779 Jun 28 20:08	17°♊02'38	27°06'01
	9779 Jul 09 14:34	0°♋	
	9779 Jul 28 14:46	0°♌	
morning set	9779 Aug 03 10:45	10°♌51'10	
max. Earth dist.	9779 Aug 07 20:22	19°♌34'32	1.33684 AU
asc. node	9779 Aug 10 16:21	25°♌24'51	
superior conj	9779 Aug 11 21:16	27°♌56'23	0°11'58
minimum elong	9779 Aug 11 20:39	27°♌53'12	0°11'37
behind sun begin	9779 Aug 11 16:45	27°♌32'37	
behind sun end	9779 Aug 12 00:34	28°♌13'48	
	9779 Aug 12 20:40	0°♍	
evening rise	9779 Aug 19 03:24	13°♍22'01	
	9779 Aug 27 13:33	0°♎	
evening max el	9779 Sep 08 15:21	16°♎56'00	21°48'16
desc. node	9779 Sep 13 18:54	20°♎59'24	
retrograde	9779 Sep 21 03:18	23°♎08'43	
evening set	9779 Sep 24 00:14	22°♎50'10	
inferior conj	9779 Oct 03 01:41	18°♎51'58	-5°04'55
minimum elong	9779 Oct 02 17:16	19°♎03'45	5°03'12
min. Earth dist.	9779 Oct 02 18:38	19°♎01'50	0.54712 AU
morning rise	9779 Oct 11 11:33	15°♎03'51	
direct	9779 Oct 15 00:59	14°♎36'08	
morning max el	9779 Oct 27 06:13	20°♎22'59	21°55'58
	9779 Nov 04 04:39	0°♏	
asc. node	9779 Nov 06 16:33	3°♏53'19	
morning set	9779 Nov 17 08:06	24°♏10'18	
	9779 Nov 20 02:11	0°♐	
superior conj	9779 Nov 24 11:23	9°♐18'08	1°37'58
minimum elong	9779 Nov 24 12:26	9°♐23'42	1°38'16
max. Earth dist.	9779 Nov 28 10:10	17°♐28'18	1.34568 AU
evening rise	9779 Dec 02 18:17	26°♐02'37	
	9779 Dec 04 20:24	0°♑	
desc. node	9779 Dec 10 17:17	10°♑31'00	
	9779 Dec 23 03:39	0°♒	
evening max el	9780 Jan 06 20:19	17°♒50'24	26°52'31
retrograde	9780 Jan 20 01:07	25°♒10'31	
evening set	9780 Jan 26 14:38	22°♒36'12	
min. Earth dist.	9780 Jan 30 14:58	18°♒38'25	0.65834 AU
inferior conj	9780 Feb 01 15:21	16°♒18'18	-0°20'14
minimum elong	9780 Feb 01 15:55	16°♒16'40	0°19'43
asc. node	9780 Feb 02 15:45	15°♒08'21	
morning rise	9780 Feb 07 18:22	10°♒40'59	
direct	9780 Feb 10 14:08	9°♒57'17	
morning max el	9780 Feb 17 00:27	13°♒22'04	18°11'38
	9780 Feb 29 00:31	0°♓	
morning set	9780 Mar 06 23:08	11°♓10'25	
desc. node	9780 Mar 07 17:13	12°♓23'25	
	9780 Mar 18 17:47	0°♈	

superior conj	9780 Mar 22 02:53	5°♈19'16	-1°33'30
minimum elong	9780 Mar 21 17:25	4°♈42'06	1°32'32
max. Earth dist.	9780 Mar 24 03:53	8°♈31'21	1.45580 AU
	9780 Apr 06 22:34	0°♉	
evening rise	9780 Apr 07 05:12	0°♉25'49	
greatest brilliancy	9780 Apr 19 01:06	18°♉41'54	-0.7m
	9780 Apr 26 22:47	0°♊	
asc. node	9780 Apr 30 14:05	4°♊19'16	
evening max el	9780 May 01 01:58	4°♊49'58	19°17'25
retrograde	9780 May 08 02:40	8°♊47'37	
evening set	9780 May 11 15:48	7°♊34'11	
inferior conj	9780 May 17 02:16	1°♊43'42	3°19'44
minimum elong	9780 May 17 02:17	1°♊43'41	3°19'25
	9780 May 18 10:09	30°℞♉	
min. Earth dist.	9780 May 18 11:52	29°♉54'29	0.66717 AU
morning rise	9780 May 22 12:21	25°♉23'52	
direct	9780 May 28 16:38	22°♉41'09	
desc. node	9780 Jun 03 17:28	24°♉43'18	
	9780 Jun 10 01:44	0°♊	
morning max el	9780 Jun 10 06:36	0°♊12'16	25°58'39
	9780 Jul 02 12:59	0°♋	
morning set	9780 Jul 16 08:17	23°♋33'09	
	9780 Jul 19 18:34	0°♌	
max. Earth dist.	9780 Jul 20 03:57	0°♌45'05	1.35381 AU
superior conj	9780 Jul 25 15:54	11°♌37'56	-0°18'34
minimum elong	9780 Jul 25 17:01	11°♌43'33	0°18'39
asc. node	9780 Jul 27 13:16	15°♌29'30	
evening rise	9780 Aug 02 11:10	27°♌43'19	
	9780 Aug 03 13:49	0°♍	
evening max el	9780 Aug 20 16:28	27°♍38'31	20°23'07
	9780 Aug 23 09:22	0°♎	
desc. node	9780 Aug 30 16:06	3°♎02'26	
retrograde	9780 Aug 31 15:45	3°♎04'58	
evening set	9780 Sep 02 16:04	2°♎54'45	
	9780 Sep 09 23:21	30°℞♍	
inferior conj	9780 Sep 11 18:56	28°♍57'14	-3°35'48
minimum elong	9780 Sep 11 09:45	29°♍10'39	3°32'50
min. Earth dist.	9780 Sep 13 03:32	28°♍09'37	0.54818 AU
morning rise	9780 Sep 20 02:48	24°♍52'38	
direct	9780 Sep 24 09:58	24°♍12'55	
	9780 Oct 07 00:54	0°♎	
morning max el	9780 Oct 07 19:59	0°♎43'35	23°41'39
asc. node	9780 Oct 23 13:27	22°♎34'05	
	9780 Oct 27 11:14	0°♏	
morning set	9780 Oct 31 19:45	8°♏59'12	
superior conj	9780 Nov 07 17:31	23°♏56'27	1°40'20
minimum elong	9780 Nov 07 17:21	23°♏55'33	1°40'38
max. Earth dist.	9780 Nov 10 07:26	29°♏28'42	1.33114 AU
	9780 Nov 10 13:20	0°♐	
evening rise	9780 Nov 15 07:38	9°♐50'04	
	9780 Nov 26 05:43	0°♑	
desc. node	9780 Nov 26 14:21	0°♑36'22	
	9780 Dec 18 02:34	0°♒	
evening max el	9780 Dec 19 08:57	1°♒14'30	27°24'40
retrograde	9781 Jan 01 23:21	8°♒36'04	
evening set	9781 Jan 08 21:13	6°♒03'09	
min. Earth dist.	9781 Jan 12 16:40	2°♒37'51	0.64223 AU
inferior conj	9781 Jan 15 04:36	0°♒00'14	-1°26'38
minimum elong	9781 Jan 15 07:19	29°♑53'06	1°25'10
	9781 Jan 15 04:42	30°℞♑	
asc. node	9781 Jan 19 12:53	25°♑56'19	
morning rise	9781 Jan 21 19:13	24°♑37'13	
direct	9781 Jan 24 06:57	24°♑05'52	
morning max el	9781 Jan 30 17:42	27°♑27'05	17°51'12
	9781 Feb 02 00:44	0°♒	

morning set	9781 Feb 16 15:59	22°♒59'48	
	9781 Feb 20 19:47	0°♓	
desc. node	9781 Feb 22 14:04	2°♓56'25	
superior conj	9781 Mar 01 22:04	14°♓57'06	-0°52'22
minimum elong	9781 Mar 01 16:16	14°♓33'43	0°51'26
max. Earth dist.	9781 Mar 06 23:23	23°♓01'10	1.44978 AU
	9781 Mar 11 10:08	0°♈	
evening rise	9781 Mar 17 18:19	9°♈48'07	
	9781 Mar 31 03:57	0°♉	
evening max el	9781 Apr 14 05:20	18°♉30'50	20°14'27
asc. node	9781 Apr 17 11:14	21°♉19'52	
retrograde	9781 Apr 22 01:19	23°♉03'05	
evening set	9781 Apr 25 23:21	21°♉34'17	
inferior conj	9781 May 01 06:53	15°♉30'14	3°13'40
minimum elong	9781 May 01 05:50	15°♉33'48	3°13'18
min. Earth dist.	9781 May 02 02:10	14°♉24'32	0.67788 AU
morning rise	9781 May 06 12:04	9°♉12'14	
direct	9781 May 12 04:28	6°♉40'21	
desc. node	9781 May 21 14:26	11°♉34'05	
morning max el	9781 May 23 16:15	13°♉33'44	24°34'55
	9781 Jun 05 23:54	0°♊	
	9781 Jun 25 08:58	0°♋	
morning set	9781 Jun 28 11:55	5°♋23'26	
max. Earth dist.	9781 Jul 02 02:48	11°♋51'09	1.37462 AU
superior conj	9781 Jul 08 23:39	24°♋45'22	-0°51'12
minimum elong	9781 Jul 09 02:56	25°♋01'19	0°50'58
	9781 Jul 11 15:57	0°♌	
asc. node	9781 Jul 14 10:13	5°♌29'21	
evening rise	9781 Jul 17 13:36	11°♌46'12	
	9781 Jul 27 09:23	0°♍	
evening max el	9781 Aug 03 07:17	9°♍06'43	19°17'50
retrograde	9781 Aug 12 14:07	13°♍43'05	
evening set	9781 Aug 14 10:24	13°♍32'56	
desc. node	9781 Aug 17 13:20	12°♍33'46	
inferior conj	9781 Aug 23 00:35	9°♍23'54	-1°41'35
minimum elong	9781 Aug 22 20:04	9°♍31'22	1°40'00
min. Earth dist.	9781 Aug 25 16:09	7°♍39'18	0.55852 AU
morning rise	9781 Aug 31 02:55	4°♍45'43	
direct	9781 Sep 05 05:38	3°♍45'54	
morning max el	9781 Sep 19 08:02	10°♍54'10	25°25'26
	9781 Oct 03 21:09	0°♎	
asc. node	9781 Oct 10 10:21	11°♎45'17	
morning set	9781 Oct 16 07:17	23°♎44'57	
	9781 Oct 19 04:30	0°♏	
superior conj	9781 Oct 23 03:25	8°♏43'14	1°36'32
minimum elong	9781 Oct 23 02:13	8°♏36'37	1°36'42
max. Earth dist.	9781 Oct 24 11:45	11°♏41'02	1.32117 AU
evening rise	9781 Oct 30 06:06	24°♏01'03	
	9781 Nov 02 04:57	0°♐	
desc. node	9781 Nov 13 11:28	20°♐16'45	
	9781 Nov 19 21:45	0°♑	
evening max el	9781 Dec 01 18:47	14°♑08'07	27°27'43
retrograde	9781 Dec 15 14:36	21°♑25'19	
evening set	9781 Dec 22 15:50	19°♑02'42	
min. Earth dist.	9781 Dec 26 08:39	16°♑04'55	0.62325 AU
inferior conj	9781 Dec 29 06:35	13°♑20'49	-2°38'47
minimum elong	9781 Dec 29 11:48	13°♑08'32	2°36'25
morning rise	9782 Jan 05 10:08	8°♑15'02	
asc. node	9782 Jan 06 10:00	7°♑59'27	
direct	9782 Jan 07 16:11	7°♑52'15	
morning max el	9782 Jan 14 10:53	11°♑19'28	17°48'19
	9782 Jan 26 23:39	0°♒	
morning set	9782 Jan 30 07:40	5°♒54'03	
desc. node	9782 Feb 09 10:54	23°♒36'02	
superior conj	9782 Feb 10 16:59	25°♒43'21	-0°09'23
minimum elong	9782 Feb 10 16:05	25°♒39'35	0°08'59
behind sun begin	9782 Feb 10 08:40	25°♒08'15	
behind sun end	9782 Feb 10 23:31	26°♒10'52	
	9782 Feb 13 06:21	0°♓	
max. Earth dist.	9782 Feb 17 15:33	7°♓10'37	1.43709 AU
evening rise	9782 Feb 25 07:54	19°♓19'38	
	9782 Mar 04 07:44	0°♈	
	9782 Mar 26 01:36	0°♉	
evening max el	9782 Mar 28 03:09	2°♉12'51	21°24'09
asc. node	9782 Apr 04 08:26	7°♉12'39	
retrograde	9782 Apr 05 23:42	7°♉25'57	
evening set	9782 Apr 10 07:45	5°♉41'49	
	9782 Apr 15 05:05	30°℞♈	
inferior conj	9782 Apr 15 14:43	29°♈26'34	2°56'32
minimum elong	9782 Apr 15 12:55	29°♈32'49	2°56'02
min. Earth dist.	9782 Apr 15 20:46	29°♈05'29	0.68403 AU
morning rise	9782 Apr 20 17:52	23°♈12'22	
direct	9782 Apr 25 20:58	20°♈57'54	
morning max el	9782 May 06 02:07	27°♈01'53	23°05'05
desc. node	9782 May 08 11:20	29°♈34'23	
	9782 May 08 20:26	0°♉	
	9782 May 30 14:17	0°♊	
morning set	9782 Jun 09 16:21	16°♊08'38	
max. Earth dist.	9782 Jun 13 23:07	23°♊23'54	1.39735 AU
	9782 Jun 17 17:33	0°♋	
superior conj	9782 Jun 21 16:35	7°♋09'55	-1°23'27
minimum elong	9782 Jun 21 21:59	7°♋34'47	1°23'04
evening rise	9782 Jul 01 07:43	25°♋23'04	
asc. node	9782 Jul 01 07:13	25°♋20'39	
	9782 Jul 03 17:48	0°♌	
evening max el	9782 Jul 17 09:29	21°♌19'03	18°33'38
retrograde	9782 Jul 25 06:18	25°♌14'46	
evening set	9782 Jul 27 07:45	24°♌59'29	
inferior conj	9782 Aug 04 02:47	20°♌31'29	0°05'52
minimum elong	9782 Aug 04 03:00	20°♌31'05	0°05'30
transit middle	9782 Aug 04 03:00	20°♌31'05	0°05'30
transit begin	9782 Aug 03 23:37	20°♌37'37	
transit end	9782 Aug 04 06:24	20°♌24'32	
desc. node	9782 Aug 04 10:30	20°♌16'34	
min. Earth dist.	9782 Aug 07 09:52	18°♌00'04	0.57622 AU
morning rise	9782 Aug 11 18:43	15°♌16'18	
direct	9782 Aug 17 16:06	13°♌48'39	
morning max el	9782 Sep 01 00:25	21°♌23'51	26°50'05
	9782 Sep 08 12:46	0°♍	
	9782 Sep 26 15:33	0°♎	
asc. node	9782 Sep 27 07:15	1°♎18'45	
morning set	9782 Sep 30 17:04	8°♎22'52	
superior conj	9782 Oct 07 15:04	23°♎32'11	1°27'05
minimum elong	9782 Oct 07 13:09	23°♎21'30	1°27'00
max. Earth dist.	9782 Oct 07 20:28	24°♎02'13	1.31597 AU
	9782 Oct 10 13:04	0°♏	
evening rise	9782 Oct 14 11:01	8°♏28'17	
	9782 Oct 25 14:20	0°♐	
desc. node	9782 Oct 31 08:37	9°♐22'00	
evening max el	9782 Nov 13 23:30	26°♐19'42	26°57'18
	9782 Nov 18 10:28	0°♑	
retrograde	9782 Nov 27 21:35	3°♑29'21	
evening set	9782 Dec 04 18:40	1°♑27'12	
	9782 Dec 06 23:59	30°℞♐	
min. Earth dist.	9782 Dec 08 14:02	28°♐47'43	0.60250 AU
inferior conj	9782 Dec 11 17:54	26°♐11'30	-3°52'00
minimum elong	9782 Dec 12 01:14	25°♐56'21	3°49'18
morning rise	9782 Dec 19 10:23	21°♐25'51	
direct	9782 Dec 21 14:04	21°♐07'59	

asc. node	9782 Dec 24 07:03	21°♐37'30	
morning max el	9782 Dec 29 00:35	24°♐50'10	18°04'14
	9783 Jan 02 06:57	0°♑	
morning set	9783 Jan 13 15:55	19°♑34'34	
	9783 Jan 19 06:53	0°♒	
superior conj	9783 Jan 23 12:32	7°♒39'13	0°28'37
minimum elong	9783 Jan 23 14:44	7°♒48'58	0°28'36
desc. node	9783 Jan 27 07:47	14°♒18'55	
max. Earth dist.	9783 Jan 31 03:26	20°♒48'03	1.41918 AU
evening rise	9783 Feb 05 11:48	29°♒33'26	
	9783 Feb 05 18:26	0°♓	
	9783 Feb 25 21:18	0°♈	
evening max el	9783 Mar 10 20:22	15°♈56'58	22°42'03
retrograde	9783 Mar 20 20:08	21°♈51'38	
asc. node	9783 Mar 22 05:38	21°♈42'03	
evening set	9783 Mar 25 15:19	19°♈52'34	
inferior conj	9783 Mar 30 23:41	13°♈28'55	2°29'33
minimum elong	9783 Mar 30 21:30	13°♈36'28	2°28'56
min. Earth dist.	9783 Mar 30 17:20	13°♈50'58	0.68574 AU
morning rise	9783 Apr 05 03:33	7°♈20'03	
direct	9783 Apr 09 17:02	5°♈26'43	
morning max el	9783 Apr 18 15:29	10°♈38'27	21°38'16
desc. node	9783 Apr 25 08:12	18°♈24'55	
	9783 May 03 19:20	0°♉	
morning set	9783 May 20 17:51	25°♉39'34	
	9783 May 23 10:48	0°♊	
max. Earth dist.	9783 May 27 00:02	5°♊48'26	1.41927 AU
superior conj	9783 Jun 03 14:03	18°♊40'27	-1°51'24
minimum elong	9783 Jun 03 20:15	19°♊07'24	1°51'13
	9783 Jun 09 23:06	0°♋	
evening rise	9783 Jun 14 13:38	8°♋23'42	
asc. node	9783 Jun 18 04:15	14°♋58'19	
	9783 Jun 27 07:57	0°♌	
evening max el	9783 Jun 30 19:04	4°♌05'34	18°09'45
retrograde	9783 Jul 07 17:09	7°♌35'59	
evening set	9783 Jul 10 02:14	7°♌11'39	
inferior conj	9783 Jul 17 02:25	2°♌22'50	1°29'40
minimum elong	9783 Jul 17 04:57	2°♌17'06	1°28'30
	9783 Jul 19 17:52	30°℞♋	
min. Earth dist.	9783 Jul 20 10:17	29°♋24'29	0.59804 AU
desc. node	9783 Jul 22 07:39	27°♋53'26	
morning rise	9783 Jul 24 04:41	26°♋37'19	
direct	9783 Jul 30 15:29	24°♋39'36	
	9783 Aug 11 05:24	0°♌	
morning max el	9783 Aug 13 23:40	2°♌32'02	27°42'21
	9783 Sep 03 00:12	0°♍	
asc. node	9783 Sep 14 04:07	21°♍07'28	
morning set	9783 Sep 14 23:18	22°♍47'18	
	9783 Sep 18 08:20	0°♎	
max. Earth dist.	9783 Sep 21 06:02	6°♎22'48	1.31554 AU
superior conj	9783 Sep 22 02:34	8°♎16'39	1°12'17
minimum elong	9783 Sep 22 00:20	8°♎04'14	1°11'58
evening rise	9783 Sep 28 20:03	23°♎04'24	
	9783 Oct 02 03:24	0°♏	
desc. node	9783 Oct 18 05:47	27°♏37'34	
	9783 Oct 20 00:40	0°♐	
evening max el	9783 Oct 26 20:29	7°♐39'50	25°53'31
retrograde	9783 Nov 09 18:16	14°♐41'56	
evening set	9783 Nov 16 00:58	13°♐09'15	
min. Earth dist.	9783 Nov 20 09:09	10°♐33'43	0.58168 AU
inferior conj	9783 Nov 23 11:01	8°♐21'49	-4°56'57
minimum elong	9783 Nov 23 18:25	8°♐08'34	4°55'02
morning rise	9783 Dec 01 14:13	3°♐58'42	
direct	9783 Dec 03 20:15	3°♐42'25	
asc. node	9783 Dec 11 04:03	6°♐47'18	
morning max el	9783 Dec 12 07:04	7°♐48'26	18°40'45
	9783 Dec 26 12:49	0°♑	
morning set	9783 Dec 28 11:36	3°♑46'12	
superior conj	9784 Jan 06 04:44	20°♑33'23	0°58'37
minimum elong	9784 Jan 06 07:55	20°♑48'20	0°58'32
	9784 Jan 11 08:19	0°♒	
max. Earth dist.	9784 Jan 13 11:20	3°♒45'46	1.39800 AU
desc. node	9784 Jan 14 04:42	5°♒01'35	
evening rise	9784 Jan 17 12:39	10°♒43'27	
	9784 Jan 29 15:38	0°♓	
evening max el	9784 Feb 21 10:43	29°♓44'22	24°02'21
	9784 Feb 21 17:03	0°♈	
retrograde	9784 Mar 03 13:19	6°♈16'03	
asc. node	9784 Mar 08 02:47	4°♈38'20	
evening set	9784 Mar 08 20:34	4°♈03'07	
	9784 Mar 12 12:35	30°℞♓	
min. Earth dist.	9784 Mar 13 13:41	28°♓36'31	0.68318 AU
inferior conj	9784 Mar 14 07:58	27°♓34'36	1°53'24
minimum elong	9784 Mar 14 05:50	27°♓41'48	1°52'46
morning rise	9784 Mar 19 15:09	21°♓32'25	
direct	9784 Mar 23 15:23	20°♓01'13	
morning max el	9784 Mar 31 11:41	24°♓27'31	20°21'19
	9784 Apr 05 08:24	0°♈	
desc. node	9784 Apr 11 05:02	7°♈52'18	
	9784 Apr 26 03:18	0°♉	
morning set	9784 Apr 28 21:14	4°♉13'40	
max. Earth dist.	9784 May 08 08:22	19°♉07'32	1.43759 AU
superior conj	9784 May 14 12:00	29°♉08'37	-2°09'27
minimum elong	9784 May 14 15:37	29°♉23'33	2°09'38
	9784 May 15 00:25	0°♊	
evening rise	9784 May 27 02:46	20°♊37'47	
	9784 Jun 01 12:24	0°♋	
asc. node	9784 Jun 04 01:17	4°♋17'11	
evening max el	9784 Jun 13 08:12	17°♋16'43	18°05'16
retrograde	9784 Jun 19 18:58	20°♋37'26	
evening set	9784 Jun 22 11:45	20°♋01'20	
inferior conj	9784 Jun 28 20:27	14°♋53'01	2°27'03
minimum elong	9784 Jun 28 23:14	14°♋45'49	2°26'00
min. Earth dist.	9784 Jul 01 19:26	11°♋51'05	0.62063 AU
morning rise	9784 Jul 05 08:39	8°♋47'25	
desc. node	9784 Jul 08 04:44	7°♋11'15	
direct	9784 Jul 12 01:38	6°♋23'56	
morning max el	9784 Jul 26 05:21	14°♋25'36	27°56'23
	9784 Aug 07 19:25	0°♌	
	9784 Aug 25 13:06	0°♍	
morning set	9784 Aug 29 00:01	6°♍53'16	
asc. node	9784 Aug 31 00:59	11°♍06'32	
max. Earth dist.	9784 Sep 03 12:34	18°♍32'22	1.31993 AU
superior conj	9784 Sep 05 12:07	22°♍51'36	0°52'27
minimum elong	9784 Sep 05 10:03	22°♍40'19	0°51'59
	9784 Sep 08 18:01	0°♎	
evening rise	9784 Sep 12 07:13	7°♎43'52	
	9784 Sep 23 18:25	0°♏	
desc. node	9784 Oct 04 02:58	14°♏44'31	
evening max el	9784 Oct 07 09:39	18°♏12'04	24°23'56
retrograde	9784 Oct 21 03:18	25°♏05'27	
evening set	9784 Oct 26 06:54	24°♏06'48	
min. Earth dist.	9784 Oct 31 20:33	21°♏16'29	0.56336 AU
inferior conj	9784 Nov 03 07:43	19°♏44'06	-5°37'32
minimum elong	9784 Nov 03 10:53	19°♏39'08	5°37'03
morning rise	9784 Nov 11 17:00	15°♏42'51	
direct	9784 Nov 14 07:12	15°♏24'57	
morning max el	9784 Nov 24 02:42	20°♏04'16	19°39'31

asc. node	9784 Nov 27 01:02	23°♏15'32	
	9784 Dec 01 19:01	0°♐	
morning set	9784 Dec 11 14:57	18°♐17'30	
	9784 Dec 17 10:00	0°♑	
superior conj	9784 Dec 19 12:32	4°♑11'20	1°20'06
minimum elong	9784 Dec 19 15:21	4°♑25'13	1°20'10
max. Earth dist.	9784 Dec 25 17:22	16°♑03'46	1.37603 AU
evening rise	9784 Dec 29 10:37	22°♑48'23	
desc. node	9784 Dec 31 01:39	25°♑39'56	
	9785 Jan 02 14:16	0°♒	
	9785 Jan 22 11:14	0°♓	
evening max el	9785 Feb 02 23:54	13°♓33'09	25°18'29
retrograde	9785 Feb 15 02:20	20°♓33'05	
evening set	9785 Feb 20 21:54	18°♓08'31	
asc. node	9785 Feb 22 23:56	16°♓05'30	
min. Earth dist.	9785 Feb 25 07:39	13°♓16'47	0.67652 AU
inferior conj	9785 Feb 26 13:39	11°♓39'35	1°08'20
minimum elong	9785 Feb 26 12:06	11°♓44'37	1°07'55
morning rise	9785 Mar 04 02:40	5°♓45'31	
direct	9785 Mar 07 14:38	4°♓35'12	
morning max el	9785 Mar 14 15:48	8°♓28'04	19°18'16
greatest brilliancy	9785 Mar 27 13:08	25°♓28'42	-0.7m
desc. node	9785 Mar 29 01:51	27°♓46'11	
	9785 Mar 30 13:18	0°♈	
morning set	9785 Apr 07 21:14	12°♈45'52	
	9785 Apr 18 23:18	0°♉	
max. Earth dist.	9785 Apr 20 22:48	3°♉06'45	1.45021 AU
superior conj	9785 Apr 24 10:03	8°♉36'06	-2°11'05
minimum elong	9785 Apr 24 07:00	8°♉23'58	2°11'13
	9785 May 07 14:39	0°♊	
evening rise	9785 May 08 18:24	1°♊54'48	
asc. node	9785 May 21 22:21	23°♊09'51	
	9785 May 27 04:49	0°♋	
evening max el	9785 May 27 21:33	0°♋43'17	18°19'27
retrograde	9785 Jun 03 07:03	4°♋08'30	
evening set	9785 Jun 06 07:26	3°♋18'49	
	9785 Jun 10 07:08	30°℞♊	
inferior conj	9785 Jun 12 04:39	27°♊52'58	3°01'29
minimum elong	9785 Jun 12 06:35	27°♊47'25	3°00'49
min. Earth dist.	9785 Jun 14 14:05	25°♊08'10	0.64148 AU
morning rise	9785 Jun 18 04:30	21°♊36'48	
direct	9785 Jun 24 20:44	18°♊56'42	
desc. node	9785 Jun 25 01:47	18°♊56'51	
morning max el	9785 Jul 08 14:57	26°♊57'58	27°33'31
	9785 Jul 11 11:11	0°♋	
	9785 Aug 01 11:18	0°♌	
morning set	9785 Aug 12 16:49	20°♌34'11	
	9785 Aug 17 08:14	0°♍	
max. Earth dist.	9785 Aug 17 12:09	0°♍20'25	1.32919 AU
asc. node	9785 Aug 17 21:53	1°♍11'18	
superior conj	9785 Aug 20 17:46	7°♍11'23	0°27'57
minimum elong	9785 Aug 20 16:27	7°♍04'20	0°27'31
evening rise	9785 Aug 27 18:38	22°♍21'09	
	9785 Aug 31 10:48	0°♎	
evening max el	9785 Sep 18 20:42	28°♎21'32	22°43'56
	9785 Sep 20 15:48	0°♏	
desc. node	9785 Sep 21 00:10	0°♏17'33	
retrograde	9785 Oct 02 00:25	4°♏55'07	
evening set	9785 Oct 05 16:01	4°♏25'54	
min. Earth dist.	9785 Oct 13 04:40	1°♏02'47	0.55064 AU
inferior conj	9785 Oct 14 09:58	0°♏20'58	-5°33'19
minimum elong	9785 Oct 14 05:15	0°♏27'41	5°32'42
	9785 Oct 15 00:40	30°℞♎	
morning rise	9785 Oct 22 20:20	26°♎32'44	
direct	9785 Oct 25 23:58	26°♎09'52	
	9785 Nov 04 15:09	0°♏	
morning max el	9785 Nov 06 09:11	1°♏31'16	21°00'37
asc. node	9785 Nov 13 21:59	10°♏46'42	
	9785 Nov 24 12:05	0°♐	
morning set	9785 Nov 25 23:12	3°♐00'49	
superior conj	9785 Dec 03 07:40	18°♐21'01	1°33'33
minimum elong	9785 Dec 03 09:27	18°♐30'08	1°33'48
max. Earth dist.	9785 Dec 08 02:26	27°♐59'04	1.35577 AU
	9785 Dec 09 03:12	0°♑	
evening rise	9785 Dec 12 02:54	5°♑41'28	
desc. node	9785 Dec 17 22:40	16°♑10'06	
	9785 Dec 26 09:34	0°♒	
evening max el	9786 Jan 16 13:12	27°♒19'47	26°23'17
	9786 Jan 19 12:27	0°♓	
retrograde	9786 Jan 29 10:20	4°♓36'27	
evening set	9786 Feb 04 17:38	2°♓04'09	
	9786 Feb 06 22:12	30°℞♒	
min. Earth dist.	9786 Feb 08 21:07	27°♒46'48	0.66599 AU
asc. node	9786 Feb 09 21:04	26°♒34'21	
inferior conj	9786 Feb 10 14:49	25°♒40'13	0°14'35
minimum elong	9786 Feb 10 14:25	25°♒41'25	0°14'40
transit middle	9786 Feb 10 14:25	25°♒41'25	0°14'40
transit begin	9786 Feb 10 13:14	25°♒45'00	
transit end	9786 Feb 10 15:36	25°♒37'49	
morning rise	9786 Feb 16 12:04	19°♒56'04	
direct	9786 Feb 19 13:10	19°♒03'47	
morning max el	9786 Feb 26 02:53	22°♒35'47	18°31'08
	9786 Mar 04 03:57	0°♓	
desc. node	9786 Mar 15 22:42	17°♓59'40	
morning set	9786 Mar 18 16:47	22°♓20'48	
	9786 Mar 23 13:10	0°♈	
superior conj	9786 Apr 03 17:08	17°♈30'25	-1°52'27
minimum elong	9786 Apr 03 08:09	16°♈55'19	1°51'52
max. Earth dist.	9786 Apr 03 17:01	17°♈29'58	1.45590 AU
	9786 Apr 11 16:29	0°♉	
evening rise	9786 Apr 19 10:12	12°♉13'04	
greatest brilliancy	9786 Apr 28 08:55	26°♉22'14	-0.8m
	9786 Apr 30 17:05	0°♊	
asc. node	9786 May 08 19:27	11°♊28'09	
evening max el	9786 May 11 08:31	14°♊19'16	18°51'28
retrograde	9786 May 18 01:28	18°♊01'41	
evening set	9786 May 21 09:43	16°♊57'16	
inferior conj	9786 May 26 23:12	11°♊15'33	3°17'26
minimum elong	9786 May 26 23:55	11°♊13'20	3°17'02
min. Earth dist.	9786 May 28 17:33	9°♊03'02	0.65901 AU
morning rise	9786 Jun 01 13:27	4°♊55'42	
direct	9786 Jun 07 23:24	2°♊10'28	
desc. node	9786 Jun 11 22:49	3°♊03'45	
morning max el	9786 Jun 21 01:36	9°♊57'26	26°39'51
	9786 Jul 06 20:36	0°♋	
	9786 Jul 24 23:18	0°♌	
morning set	9786 Jul 26 22:32	3°♌41'05	
max. Earth dist.	9786 Jul 31 01:32	11°♌41'30	1.34345 AU
superior conj	9786 Aug 04 17:15	21°♌09'25	-0°00'39
minimum elong	9786 Aug 04 17:18	21°♌09'40	0°00'53
behind sun begin	9786 Aug 04 11:31	20°♌39'40	
behind sun end	9786 Aug 04 23:05	21°♌39'43	
asc. node	9786 Aug 04 18:47	21°♌17'25	
	9786 Aug 08 22:25	0°♍	
evening rise	9786 Aug 12 04:21	6°♍50'12	
	9786 Aug 24 15:39	0°♎	
evening max el	9786 Aug 31 14:53	8°♎44'25	21°09'58
desc. node	9786 Sep 07 21:23	13°♎45'29	

retrograde	9786 Sep	12	12:46	14°♎38'49	
evening set	9786 Sep	14	22:25	14°♎25'20	
inferior conj	9786 Sep	24	02:30	10°♎29'23	-4°32'25
minimum elong	9786 Sep	23	16:48	10°♎43'03	4°29'53
min. Earth dist.	9786 Sep	24	12:52	10°♎14'46	0.54633 AU
morning rise	9786 Oct	02	11:39	6°♎36'27	
direct	9786 Oct	06	08:18	6°♎04'21	
morning max el	9786 Oct	19	03:27	12°♎11'07	22°40'03
asc. node	9786 Oct	31	18:56	29°♎05'40	
	9786 Nov	01	07:30	0°♏	
morning set	9786 Nov	10	10:08	17°♏49'00	
	9786 Nov	16	02:35	0°♐	
superior conj	9786 Nov	17	10:35	2°♐51'07	1°39'45
minimum elong	9786 Nov	17	11:07	2°♐53'56	1°40'05
max. Earth dist.	9786 Nov	20	18:47	9°♐53'02	1.33894 AU
evening rise	9786 Nov	25	09:38	19°♐11'55	
	9786 Dec	01	03:33	0°♑	
desc. node	9786 Dec	04	19:43	6°♑26'13	
	9786 Dec	20	12:11	0°♒	
evening max el	9786 Dec	30	02:32	10°♒55'41	27°09'27
retrograde	9787 Jan	12	12:23	18°♒17'45	
evening set	9787 Jan	19	05:42	15°♒43'18	
min. Earth dist.	9787 Jan	23	03:51	11°♒59'24	0.65183 AU
inferior conj	9787 Jan	25	09:09	9°♒30'44	-0°47'30
minimum elong	9787 Jan	25	10:33	9°♒26'49	0°46'36
asc. node	9787 Jan	27	18:13	6°♒58'05	
morning rise	9787 Jan	31	16:51	3°♒58'55	
direct	9787 Feb	03	08:53	3°♒20'59	
morning max el	9787 Feb	09	18:36	6°♒43'23	18°00'48
	9787 Feb	25	16:12	0°♓	
morning set	9787 Feb	27	17:39	3°♓23'32	
desc. node	9787 Mar	02	19:33	8°♓26'49	
superior conj	9787 Mar	14	02:47	26°♓38'47	-1°16'53
minimum elong	9787 Mar	13	18:22	26°♓05'29	1°15'50
	9787 Mar	16	05:45	0°♈	
max. Earth dist.	9787 Mar	17	12:43	2°♈01'44	1.45411 AU
evening rise	9787 Mar	30	05:52	21°♈47'00	
	9787 Apr	04	14:08	0°♉	
greatest brilliancy	9787 Apr	12	22:40	12°♉38'06	-0.7m
evening max el	9787 Apr	24	15:06	27°♉59'57	19°39'59
asc. node	9787 Apr	25	16:35	29°♉01'18	
	9787 Apr	26	20:08	0°♊	
retrograde	9787 May	01	23:10	2°♊10'58	
evening set	9787 May	05	15:59	0°♊51'06	
	9787 May	06	17:06	30°♈℞	
inferior conj	9787 May	11	00:55	24°♉54'55	3°18'37
minimum elong	9787 May	11	00:27	24°♉56'29	3°18'17
min. Earth dist.	9787 May	12	04:23	23°♉23'37	0.67232 AU
morning rise	9787 May	16	08:34	18°♉35'40	
direct	9787 May	22	08:12	15°♉56'17	
desc. node	9787 May	29	19:49	19°♉03'36	
morning max el	9787 Jun	03	11:31	23°♉12'52	25°24'22
	9787 Jun	09	11:34	0°♊	
	9787 Jun	30	04:51	0°♋	
morning set	9787 Jul	09	13:08	16°♋03'28	
max. Earth dist.	9787 Jul	13	04:40	22°♋46'33	1.36229 AU
	9787 Jul	16	23:14	0°♌	
superior conj	9787 Jul	19	07:46	4°♌38'35	-0°32'16
minimum elong	9787 Jul	19	09:46	4°♌48'31	0°32'11
asc. node	9787 Jul	22	15:44	11°♌21'08	
evening rise	9787 Jul	27	10:13	21°♌05'13	
	9787 Jul	31	21:45	0°♍	
evening max el	9787 Aug	13	22:03	19°♍46'48	19°52'46
retrograde	9787 Aug	24	03:32	24°♍50'51	

desc. node	9787 Aug	25	18:35	24°♍43'42	
evening set	9787 Aug	26	00:41	24°♍41'20	
inferior conj	9787 Sep	03	23:32	20°♍40'31	-2°48'20
minimum elong	9787 Sep	03	15:59	20°♍52'01	2°45'41
min. Earth dist.	9787 Sep	05	23:07	19°♍28'05	0.55159 AU
morning rise	9787 Sep	12	05:39	16°♍23'14	
direct	9787 Sep	16	21:22	15°♍35'48	
morning max el	9787 Sep	30	15:22	22°♍23'16	24°26'57
	9787 Oct	07	08:51	0°♎	
asc. node	9787 Oct	18	15:53	18°♎00'51	
	9787 Oct	24	16:16	0°♏	
morning set	9787 Oct	25	21:56	2°♏37'05	
superior conj	9787 Nov	01	18:35	17°♏33'42	1°39'26
minimum elong	9787 Nov	01	17:57	17°♏30'14	1°39'41
max. Earth dist.	9787 Nov	03	19:25	21°♏58'57	1.32640 AU
	9787 Nov	07	14:10	0°♐	
evening rise	9787 Nov	09	03:15	3°♐10'31	
desc. node	9787 Nov	21	16:48	26°♐21'58	
	9787 Nov	23	22:33	0°♑	
evening max el	9787 Dec	12	14:30	24°♑09'02	27°29'54
	9787 Dec	20	13:18	0°♒	
retrograde	9787 Dec	26	07:35	1°♒28'27	
	9787 Dec	31	16:58	30°♑℞	
evening set	9788 Jan	02	07:32	28°♑59'08	
min. Earth dist.	9788 Jan	06	01:39	25°♑46'07	0.63447 AU
inferior conj	9788 Jan	08	18:00	23°♑04'33	-1°56'44
minimum elong	9788 Jan	08	21:45	22°♑55'06	1°54'51
asc. node	9788 Jan	14	15:21	18°♑13'28	
morning rise	9788 Jan	15	13:58	17°♑48'10	
direct	9788 Jan	17	23:02	17°♑20'48	
morning max el	9788 Jan	24	12:07	20°♑43'26	17°47'44
	9788 Jan	31	12:42	0°♒	
morning set	9788 Feb	09	21:01	15°♒43'02	
desc. node	9788 Feb	17	16:23	29°♒03'01	
	9788 Feb	18	05:58	0°♓	
superior conj	9788 Feb	22	07:15	6°♓43'20	-0°33'50
minimum elong	9788 Feb	22	03:39	6°♓28'32	0°33'07
max. Earth dist.	9788 Feb	28	07:26	16°♓26'04	1.44515 AU
	9788 Mar	07	23:23	0°♈	
evening rise	9788 Mar	08	17:13	1°♈08'34	
	9788 Mar	28	05:42	0°♉	
evening max el	9788 Apr	06	16:09	11°♉41'44	20°42'51
asc. node	9788 Apr	11	13:45	15°♉35'15	
retrograde	9788 Apr	14	21:50	16°♉30'21	
evening set	9788 Apr	19	00:07	14°♉54'51	
inferior conj	9788 Apr	24	07:08	8°♉45'52	3°07'39
minimum elong	9788 Apr	24	05:43	8°♉50'42	3°07'15
min. Earth dist.	9788 Apr	24	20:38	7°♉59'21	0.68107 AU
morning rise	9788 Apr	29	11:08	2°♉29'34	
direct	9788 May	04	22:03	0°♉04'31	
desc. node	9788 May	15	16:46	6°♉26'44	
morning max el	9788 May	15	20:53	6°♉37'06	23°56'58
	9788 Jun	03	00:36	0°♊	
morning set	9788 Jun	20	07:30	27°♊27'33	
	9788 Jun	21	18:49	0°♋	
max. Earth dist.	9788 Jun	24	01:59	4°♋02'16	1.38427 AU
superior conj	9788 Jul	01	09:45	17°♋29'23	-1°05'06
minimum elong	9788 Jul	01	14:00	17°♋49'32	1°04'46
	9788 Jul	07	20:48	0°♌	
asc. node	9788 Jul	08	12:41	1°♌18'04	
evening rise	9788 Jul	10	09:32	4°♌58'28	
	9788 Jul	25	06:45	0°♍	
evening max el	9788 Jul	26	18:05	1°♍34'28	18°56'22
retrograde	9788 Aug	04	09:05	5°♍51'56	

evening set	9788 Aug 06	07:04	5°♍40'03	
desc. node	9788 Aug 11	15:47	3°♍19'57	
inferior conj	9788 Aug 14	13:21	1°♍23'02	-0°53'46
minimum elong	9788 Aug 14	11:04	1°♍27'03	0°53'05
	9788 Aug 16	12:21	30°℞♌	
min. Earth dist.	9788 Aug 17	13:19	29°♌16'59	0.56540 AU
morning rise	9788 Aug 22	11:53	26°♌29'04	
direct	9788 Aug 27	22:53	25°♌18'25	
	9788 Sep 08	04:25	0°♍	
morning max el	9788 Sep 11	04:40	2°♍38'28	26°04'45
	9788 Sep 30	15:30	0°♎	
asc. node	9788 Oct 04	12:47	7°♎22'35	
morning set	9788 Oct 09	08:57	17°♎20'17	
	9788 Oct 15	03:50	0°♏	
superior conj	9788 Oct 16	05:27	2°♏22'01	1°33'12
minimum elong	9788 Oct 16	03:54	2°♏13'26	1°33'15
max. Earth dist.	9788 Oct 17	02:14	4°♏17'00	1.31842 AU
evening rise	9788 Oct 23	04:45	17°♏29'15	
	9788 Oct 29	11:12	0°♐	
desc. node	9788 Nov 07	13:55	15°♐49'03	
	9788 Nov 17	16:46	0°♑	
evening max el	9788 Nov 23	22:32	6°♑46'25	27°18'58
retrograde	9788 Dec 07	19:10	13°♑59'58	
evening set	9788 Dec 14	19:57	11°♑44'43	
min. Earth dist.	9788 Dec 18	12:59	8°♑56'24	0.61458 AU
inferior conj	9788 Dec 21	14:11	6°♑13'52	-3°10'08
minimum elong	9788 Dec 21	20:25	5°♑59'58	3°07'31
morning rise	9788 Dec 28	23:21	1°♑16'22	
direct	9788 Dec 31	04:03	0°♑55'59	
asc. node	9788 Dec 31	12:27	0°♑56'31	
morning max el	9789 Jan 07	04:16	4°♑28'05	17°52'45
morning set	9789 Jan 22	20:28	28°♑59'35	
	9789 Jan 23	09:48	0°♒	
superior conj	9789 Feb 02	13:00	18°♒00'48	0°07'37
minimum elong	9789 Feb 02	13:42	18°♒03'48	0°07'48
behind sun begin	9789 Feb 02	06:18	17°♒31'53	
behind sun end	9789 Feb 02	21:06	18°♒35'39	
desc. node	9789 Feb 03	13:14	19°♒44'52	
	9789 Feb 09	16:08	0°♓	
max. Earth dist.	9789 Feb 09	22:25	0°♓25'44	1.42998 AU
evening rise	9789 Feb 16	11:36	10°♓55'28	
	9789 Mar 01	01:44	0°♈	
evening max el	9789 Mar 20	11:46	25°♈24'29	21°56'32
	9789 Mar 26	07:52	0°♉	
asc. node	9789 Mar 29	10:55	0°♉54'54	
retrograde	9789 Mar 29	19:37	0°♉55'33	
	9789 Apr 02	01:05	30°℞♈	
evening set	9789 Apr 03	08:22	29°♈04'42	
inferior conj	9789 Apr 08	15:40	22°♈45'20	2°46'14
minimum elong	9789 Apr 08	13:40	22°♈52'20	2°45'41
min. Earth dist.	9789 Apr 08	16:16	22°♈43'15	0.68528 AU
morning rise	9789 Apr 13	18:49	16°♈33'24	
direct	9789 Apr 18	16:02	14°♈27'54	
morning max el	9789 Apr 28	07:59	20°♈09'20	22°27'26
desc. node	9789 May 02	13:38	24°♈50'36	
	9789 May 06	16:15	0°♉	
	9789 May 27	05:29	0°♊	
morning set	9789 Jun 01	00:40	7°♊41'37	
max. Earth dist.	9789 Jun 05	23:57	15°♊56'50	1.40696 AU
superior conj	9789 Jun 13	18:56	29°♊32'01	-1°36'06
minimum elong	9789 Jun 14	00:56	29°♊59'02	1°35'46
	9789 Jun 14	01:09	0°♋	
evening rise	9789 Jun 23	22:59	18°♋21'30	
asc. node	9789 Jun 25	09:39	21°♋04'16	
	9789 Jun 30	06:38	0°♌	
evening max el	9789 Jul 09	23:48	14°♌02'09	18°20'57
retrograde	9789 Jul 17	09:44	17°♌45'36	
evening set	9789 Jul 19	14:10	17°♌26'58	
inferior conj	9789 Jul 27	00:54	12°♌49'54	0°44'40
minimum elong	9789 Jul 27	02:25	12°♌46'47	0°43'49
desc. node	9789 Jul 29	12:56	10°♌45'43	
min. Earth dist.	9789 Jul 30	09:44	10°♌04'13	0.58519 AU
morning rise	9789 Aug 03	11:12	7°♌20'16	
direct	9789 Aug 09	14:50	5°♌39'54	
morning max el	9789 Aug 24	00:06	13°♌23'50	27°16'51
	9789 Sep 06	04:47	0°♍	
asc. node	9789 Sep 21	09:39	27°♍03'22	
	9789 Sep 22	19:51	0°♎	
morning set	9789 Sep 23	17:26	1°♎53'21	
superior conj	9789 Sep 30	17:14	17°♎09'47	1°21'26
minimum elong	9789 Sep 30	15:08	16°♎58'02	1°21'15
max. Earth dist.	9789 Sep 30	11:45	16°♎39'15	1.31517 AU
	9789 Oct 06	13:06	0°♏	
evening rise	9789 Oct 07	11:39	2°♏00'50	
	9789 Oct 22	10:43	0°♐	
desc. node	9789 Oct 25	11:04	4°♐35'22	
evening max el	9789 Nov 05	23:54	18°♐35'49	26°33'57
retrograde	9789 Nov 19	22:08	25°♐42'58	
evening set	9789 Nov 26	14:41	23°♐52'01	
min. Earth dist.	9789 Nov 30	13:37	21°♐16'35	0.59348 AU
inferior conj	9789 Dec 03	18:07	18°♐48'19	-4°21'23
minimum elong	9789 Dec 04	01:52	18°♐33'15	4°18'52
morning rise	9789 Dec 11	15:39	14°♐12'32	
direct	9789 Dec 13	19:38	13°♐55'49	
asc. node	9789 Dec 18	09:30	15°♐14'55	
morning max el	9789 Dec 21	15:26	17°♐46'48	18°17'13
	9789 Dec 30	09:27	0°♑	
morning set	9790 Jan 06	10:06	12°♑54'44	
superior conj	9790 Jan 15	17:59	0°♒23'31	0°42'22
minimum elong	9790 Jan 15	20:49	0°♒36'25	0°42'17
	9790 Jan 15	12:49	0°♒	
desc. node	9790 Jan 21	10:08	10°♒28'11	
max. Earth dist.	9790 Jan 23	08:07	13°♒45'39	1.41036 AU
evening rise	9790 Jan 27	23:59	21°♒32'08	
	9790 Feb 02	06:57	0°♓	
	9790 Feb 23	05:06	0°♈	
evening max el	9790 Mar 03	03:20	9°♈09'08	23°16'13
retrograde	9790 Mar 13	14:57	15°♈21'08	
asc. node	9790 Mar 16	08:06	14°♈45'23	
evening set	9790 Mar 18	15:07	13°♈15'56	
min. Earth dist.	9790 Mar 23	13:04	7°♈29'05	0.68512 AU
inferior conj	9790 Mar 24	00:34	6°♈49'25	2°15'19
minimum elong	9790 Mar 23	22:21	6°♈57'03	2°14'41
morning rise	9790 Mar 29	05:32	0°♈43'07	
	9790 Mar 30	05:40	30°℞♓	
direct	9790 Apr 02	13:10	28°♓59'24	
	9790 Apr 06	02:52	0°♈	
morning max el	9790 Apr 10	24:00	3°♈51'06	21°04'00
desc. node	9790 Apr 19	10:29	13°♈58'07	
	9790 Apr 30	16:22	0°♉	
morning set	9790 May 11	15:23	16°♉44'14	
max. Earth dist.	9790 May 19	03:24	28°♉43'13	1.42757 AU
	9790 May 19	22:12	0°♊	
superior conj	9790 May 26	06:44	10°♊36'24	-2°00'40
minimum elong	9790 May 26	12:22	11°♊00'21	2°00'38
	9790 Jun 06	08:08	0°♋	
evening rise	9790 Jun 06	22:21	1°♋03'41	
asc. node	9790 Jun 12	06:41	10°♋34'48	

evening max el	9790 Jun	23	11:20	27°♋00'34	18°05'34
	9790 Jun	27	20:03	0°♌	
retrograde	9790 Jun	30	03:26	0°♌25'09	
	9790 Jul	02	11:35	30°℞♋	
evening set	9790 Jul	02	15:43	29°♋56'14	
inferior conj	9790 Jul	09	08:52	24°♋59'13	1°57'03
minimum elong	9790 Jul	09	11:43	24°♋52'25	1°55'51
min. Earth dist.	9790 Jul	12	13:59	21°♋56'09	0.60766 AU
morning rise	9790 Jul	16	05:02	19°♋03'41	
desc. node	9790 Jul	16	10:01	18°♋55'40	
direct	9790 Jul	22	19:23	16°♋53'48	
morning max el	9790 Aug	06	02:23	24°♋52'11	27°53'01
	9790 Aug	10	18:56	0°♌	
	9790 Aug	30	14:17	0°♍	
morning set	9790 Sep	07	21:38	16°♍11'24	
asc. node	9790 Sep	08	06:30	16°♍57'31	
max. Earth dist.	9790 Sep	13	20:23	28°♍56'27	1.31676 AU
	9790 Sep	14	07:56	0°♎	
superior conj	9790 Sep	15	04:10	1°♎51'42	1°04'29
minimum elong	9790 Sep	15	01:57	1°♎39'24	1°04'05
evening rise	9790 Sep	21	21:50	16°♎39'34	
	9790 Sep	28	10:27	0°♏	
desc. node	9790 Oct	12	08:14	22°♏25'05	
evening max el	9790 Oct	18	17:18	29°♏34'37	25°17'52
	9790 Oct	19	04:07	0°♐	
retrograde	9790 Nov	01	14:34	6°♐34'09	
evening set	9790 Nov	07	10:59	5°♐15'57	
min. Earth dist.	9790 Nov	12	05:21	2°♐36'13	0.57337 AU
inferior conj	9790 Nov	15	02:42	0°♐39'19	-5°18'21
minimum elong	9790 Nov	15	08:55	0°♐28'49	5°17'04
	9790 Nov	16	02:07	30°℞♏	
morning rise	9790 Nov	23	09:10	26°♏25'52	
direct	9790 Nov	25	17:41	26°♏09'26	
	9790 Dec	04	05:26	0°♐	
morning max el	9790 Dec	04	17:49	0°♐28'55	19°02'54
asc. node	9790 Dec	05	06:30	1°♐00'14	
morning set	9790 Dec	21	09:27	27°♐15'51	
	9790 Dec	22	18:36	0°♑	
superior conj	9790 Dec	29	17:25	13°♑38'01	1°08'44
minimum elong	9790 Dec	29	20:34	13°♑53'08	1°08'42
max. Earth dist.	9791 Jan	05	14:17	26°♑23'26	1.38862 AU
	9791 Jan	07	15:09	0°♒	
desc. node	9791 Jan	08	07:04	1°♒09'34	
evening rise	9791 Jan	09	10:06	3°♒06'32	
	9791 Jan	26	11:11	0°♓	
evening max el	9791 Feb	13	17:01	22°♓57'16	24°35'42
retrograde	9791 Feb	25	06:32	29°♓42'33	
evening set	9791 Mar	02	18:53	27°♓24'34	
asc. node	9791 Mar	03	05:16	27°♓01'38	
min. Earth dist.	9791 Mar	07	08:47	22°♓12'31	0.68082 AU
inferior conj	9791 Mar	08	07:59	20°♓55'10	1°35'23
minimum elong	9791 Mar	08	06:02	21°♓01'40	1°34'48
morning rise	9791 Mar	13	17:19	14°♓55'56	
direct	9791 Mar	17	12:10	13°♓33'48	
morning max el	9791 Mar	24	23:26	17°♓44'36	19°52'31
	9791 Apr	03	18:35	0°♈	
desc. node	9791 Apr	06	07:20	3°♈37'39	
morning set	9791 Apr	20	14:11	25°♈07'49	
	9791 Apr	23	17:47	0°♉	
max. Earth dist.	9791 May	01	14:06	12°♉19'18	1.44373 AU
superior conj	9791 May	06	18:08	20°♉37'14	-2°12'30
minimum elong	9791 May	06	19:17	20°♉41'54	2°12'46
	9791 May	12	11:14	0°♊	
evening rise	9791 May	20	02:46	12°♊53'39	
asc. node	9791 May	30	03:43	29°♊43'12	
	9791 May	30	07:58	0°♋	
evening max el	9791 Jun	07	01:00	10°♋19'22	18°09'11
retrograde	9791 Jun	13	09:59	13°♋40'02	
evening set	9791 Jun	16	06:03	12°♋58'18	
inferior conj	9791 Jun	22	09:24	7°♋42'35	2°44'12
minimum elong	9791 Jun	22	11:54	7°♋35'47	2°43'17
min. Earth dist.	9791 Jun	25	03:05	4°♋45'36	0.62982 AU
morning rise	9791 Jun	28	16:05	1°♋31'43	
	9791 Jul	01	03:22	30°℞♊	
desc. node	9791 Jul	03	07:07	29°♊14'04	
direct	9791 Jul	05	09:44	28°♊59'36	
	9791 Jul	09	22:40	0°♋	
morning max el	9791 Jul	19	09:48	7°♋02'21	27°50'53
	9791 Aug	05	22:41	0°♌	
morning set	9791 Aug	22	19:17	0°♍07'24	
	9791 Aug	22	17:49	0°♍	
asc. node	9791 Aug	26	03:22	6°♍59'24	
max. Earth dist.	9791 Aug	28	00:15	10°♍57'05	1.32325 AU
superior conj	9791 Aug	30	12:20	16°♍21'05	0°42'38
minimum elong	9791 Aug	30	10:31	16°♍11'12	0°42'09
	9791 Sep	05	18:39	0°♎	
evening rise	9791 Sep	06	09:20	1°♎18'50	
	9791 Sep	22	00:32	0°♏	
desc. node	9791 Sep	29	05:26	8°♏55'41	
evening max el	9791 Sep	30	04:46	9°♏53'47	23°41'43
retrograde	9791 Oct	13	18:06	16°♏39'58	
evening set	9791 Oct	18	06:45	15°♏55'18	
min. Earth dist.	9791 Oct	24	15:03	12°♏52'56	0.55714 AU
inferior conj	9791 Oct	26	14:59	11°♏41'25	-5°42'20
minimum elong	9791 Oct	26	15:00	11°♏41'25	5°42'06
morning rise	9791 Nov	04	01:09	7°♏46'51	
direct	9791 Nov	06	20:37	7°♏27'10	
morning max el	9791 Nov	17	07:54	12°♏23'49	20°11'17
asc. node	9791 Nov	22	03:28	17°♏56'49	
	9791 Nov	29	14:03	0°♐	
morning set	9791 Dec	05	15:12	11°♐53'02	
superior conj	9791 Dec	13	06:30	27°♐30'23	1°26'43
minimum elong	9791 Dec	13	08:55	27°♐42'34	1°26'53
	9791 Dec	14	12:24	0°♑	
max. Earth dist.	9791 Dec	18	21:09	8°♑29'40	1.36716 AU
evening rise	9791 Dec	22	16:21	15°♑33'11	
desc. node	9791 Dec	26	04:04	21°♑44'59	
	9791 Dec	31	01:26	0°♒	
	9792 Jan	21	01:34	0°♓	
evening max el	9792 Jan	27	06:25	6°♓46'45	25°47'56
retrograde	9792 Feb	08	17:24	13°♓54'31	
evening set	9792 Feb	14	18:04	11°♓26'24	
asc. node	9792 Feb	18	02:25	7°♓58'50	
min. Earth dist.	9792 Feb	19	01:09	6°♓49'14	0.67252 AU
inferior conj	9792 Feb	20	12:02	4°♓59'05	0°46'38
minimum elong	9792 Feb	20	10:54	5°♓02'40	0°46'22
	9792 Feb	25	00:15	30°℞♒	
morning rise	9792 Feb	26	04:15	29°♒08'49	
direct	9792 Feb	29	11:30	28°♒06'23	
	9792 Mar	05	04:54	0°♓	
morning max el	9792 Mar	07	06:41	1°♓48'38	18°56'11
greatest brilliancy	9792 Mar	21	08:39	20°♓53'58	-0.8m
desc. node	9792 Mar	23	04:11	23°♓40'49	
	9792 Mar	27	06:17	0°♈	
morning set	9792 Mar	29	20:21	4°♈01'01	
max. Earth dist.	9792 Apr	13	06:54	26°♈32'27	1.45356 AU
superior conj	9792 Apr	15	08:10	29°♈46'00	-2°05'39
minimum elong	9792 Apr	15	02:02	29°♈21'54	2°05'32

	9792 Apr 15 11:43	0°♉	
evening rise	9792 Apr 30 08:19	23°♉45'19	
	9792 May 04 04:31	0°♊	
asc. node	9792 May 16 00:49	18°♊22'29	
evening max el	9792 May 20 13:42	23°♊50'58	18°30'58
retrograde	9792 May 27 01:11	27°♊21'42	
evening set	9792 May 30 04:58	26°♊25'40	
inferior conj	9792 Jun 04 22:27	20°♊52'47	3°10'16
minimum elong	9792 Jun 04 23:52	20°♊48'31	3°09'43
min. Earth dist.	9792 Jun 07 01:26	18°♊20'33	0.64944 AU
morning rise	9792 Jun 10 17:53	14°♊34'39	
direct	9792 Jun 17 08:05	11°♊51'11	
desc. node	9792 Jun 19 04:10	12°♊02'30	
morning max el	9792 Jun 30 20:03	19°♊47'13	27°14'01
	9792 Jul 09 13:11	0°♋	
	9792 Jul 28 23:58	0°♌	
morning set	9792 Aug 05 07:47	13°♌34'26	
max. Earth dist.	9792 Aug 09 19:55	22°♌34'01	1.33472 AU
asc. node	9792 Aug 12 00:16	27°♌04'57	
	9792 Aug 13 09:35	0°♍	
superior conj	9792 Aug 13 15:40	0°♍32'08	0°16'18
minimum elong	9792 Aug 13 14:51	0°♍27'49	0°15'55
behind sun begin	9792 Aug 13 14:11	0°♍24'19	
behind sun end	9792 Aug 13 15:30	0°♍31'19	
evening rise	9792 Aug 20 20:17	15°♍53'15	
	9792 Aug 27 20:51	0°♎	
evening max el	9792 Sep 10 17:44	20°♎04'02	22°02'20
desc. node	9792 Sep 15 02:38	23°♎39'09	
retrograde	9792 Sep 23 10:10	26°♎22'50	
evening set	9792 Sep 26 11:41	26°♎01'55	
inferior conj	9792 Oct 05 11:32	22°♎02'16	-5°14'15
minimum elong	9792 Oct 05 03:53	22°♎12'59	5°12'50
min. Earth dist.	9792 Oct 04 22:26	22°♎20'38	0.54774 AU
morning rise	9792 Oct 13 21:34	18°♎14'55	
direct	9792 Oct 17 08:26	17°♎48'37	
morning max el	9792 Oct 29 08:37	23°♎28'37	21°41'09
	9792 Nov 04 01:40	0°♏	
asc. node	9792 Nov 08 00:26	5°♏49'35	
morning set	9792 Nov 19 00:50	26°♏39'01	
	9792 Nov 20 15:02	0°♐	
superior conj	9792 Nov 26 05:17	11°♐49'28	1°37'01
minimum elong	9792 Nov 26 06:32	11°♐56'00	1°37'19
max. Earth dist.	9792 Nov 30 09:19	20°♐23'18	1.34815 AU
evening rise	9792 Dec 04 15:11	28°♐42'46	
	9792 Dec 05 07:27	0°♑	
desc. node	9792 Dec 12 01:05	12°♑09'37	
	9792 Dec 23 06:34	0°♒	
evening max el	9793 Jan 08 19:52	20°♒29'59	26°45'37
retrograde	9793 Jan 21 22:46	27°♒49'31	
evening set	9793 Jan 28 10:48	25°♒15'24	
min. Earth dist.	9793 Feb 01 11:53	21°♒12'45	0.66042 AU
inferior conj	9793 Feb 03 10:35	18°♒55'49	-0°10'46
minimum elong	9793 Feb 03 10:53	18°♒54'58	0°10'23
transit middle	9793 Feb 03 10:53	18°♒54'58	0°10'23
transit begin	9793 Feb 03 08:38	19°♒01'34	
transit end	9793 Feb 03 13:07	18°♒48'23	
asc. node	9793 Feb 03 23:35	18°♒17'48	
morning rise	9793 Feb 09 12:02	13°♒16'45	
direct	9793 Feb 12 09:09	12°♒30'57	
morning max el	9793 Feb 18 20:06	15°♒57'12	18°16'12
	9793 Mar 01 06:00	0°♓	
morning set	9793 Mar 10 04:09	14°♓13'06	
desc. node	9793 Mar 10 01:01	14°♓00'33	
	9793 Mar 20 01:47	0°♈	

superior conj	9793 Mar 25 13:53	8°♈39'22	-1°38'57
minimum elong	9793 Mar 25 04:18	8°♈01'51	1°38'03
max. Earth dist.	9793 Mar 27 02:38	11°♈03'17	1.45606 AU
	9793 Apr 08 05:49	0°♉	
evening rise	9793 Apr 10 14:40	3°♉42'03	
greatest brilliancy	9793 Apr 21 17:25	20°♉57'52	-0.8m
	9793 Apr 27 20:55	0°♊	
asc. node	9793 May 02 21:57	6°♊22'48	
evening max el	9793 May 03 22:57	7°♊28'48	19°10'06
retrograde	9793 May 10 21:25	11°♊22'15	
evening set	9793 May 14 09:15	10°♊11'11	
inferior conj	9793 May 19 20:24	4°♊22'48	3°19'32
minimum elong	9793 May 19 20:36	4°♊22'12	3°19'12
min. Earth dist.	9793 May 21 08:13	2°♊27'22	0.66522 AU
	9793 May 23 09:02	30°℞♉	
morning rise	9793 May 25 07:28	28°♉02'45	
direct	9793 May 31 13:16	25°♉19'09	
desc. node	9793 Jun 06 01:12	27°♉00'42	
	9793 Jun 10 04:12	0°♊	
morning max el	9793 Jun 13 06:44	2°♊55'01	26°09'53
	9793 Jul 03 18:50	0°♋	
morning set	9793 Jul 19 07:36	26°♋23'21	
	9793 Jul 21 05:44	0°♌	
max. Earth dist.	9793 Jul 23 05:00	3°♌46'52	1.35098 AU
superior conj	9793 Jul 28 11:40	14°♌18'09	-0°13'47
minimum elong	9793 Jul 28 12:29	14°♌22'18	0°13'54
behind sun begin	9793 Jul 28 09:26	14°♌06'41	
behind sun end	9793 Jul 28 15:33	14°♌37'55	
asc. node	9793 Jul 29 21:13	17°♌10'09	
evening rise	9793 Aug 05 04:39	0°♍16'49	
	9793 Aug 05 01:24	0°♍	
	9793 Aug 23 00:54	0°♎	
evening max el	9793 Aug 23 16:55	0°♎40'50	20°34'40
desc. node	9793 Sep 01 23:49	6°♎05'18	
retrograde	9793 Sep 03 22:25	6°♎15'01	
evening set	9793 Sep 06 00:29	6°♎04'17	
inferior conj	9793 Sep 15 04:09	2°♎07'34	-3°51'46
minimum elong	9793 Sep 14 18:36	2°♎21'21	3°48'50
min. Earth dist.	9793 Sep 16 07:09	1°♎28'34	0.54734 AU
	9793 Sep 18 23:20	30°℞♍	
morning rise	9793 Sep 23 12:24	28°♍06'37	
direct	9793 Sep 27 16:42	27°♍29'09	
	9793 Oct 05 22:19	0°♎	
morning max el	9793 Oct 10 23:25	3°♎54'00	23°25'38
asc. node	9793 Oct 25 21:23	24°♎25'19	
	9793 Oct 28 21:19	0°♏	
morning set	9793 Nov 03 12:23	11°♏28'19	
superior conj	9793 Nov 10 10:43	26°♏26'23	1°40'23
minimum elong	9793 Nov 10 10:44	26°♏26'28	1°40'41
	9793 Nov 12 02:33	0°♐	
max. Earth dist.	9793 Nov 13 05:18	2°♐22'00	1.33299 AU
evening rise	9793 Nov 18 02:58	12°♐26'29	
	9793 Nov 27 13:44	0°♑	
desc. node	9793 Nov 28 22:08	2°♑18'10	
	9793 Dec 18 12:53	0°♒	
evening max el	9793 Dec 22 08:38	3°♒57'20	27°21'34
retrograde	9794 Jan 04 22:05	11°♒19'33	
evening set	9794 Jan 11 18:54	8°♒45'53	
min. Earth dist.	9794 Jan 15 14:57	5°♒15'53	0.64483 AU
inferior conj	9794 Jan 18 01:14	2°♒40'08	-1°16'07
minimum elong	9794 Jan 18 03:35	2°♒33'51	1°14'48
	9794 Jan 20 16:09	30°℞♑	
asc. node	9794 Jan 21 20:44	28°♑57'31	
morning rise	9794 Jan 24 14:01	27°♑14'49	
direct	9794 Jan 27 02:46	26°♑41'56	

	9794 Feb 02	11:45	0°♒		
morning max el	9794 Feb 02	13:03	0°♒03'10	17°53'06	
morning set	9794 Feb 19	16:57	25°♒50'27		
	9794 Feb 22	04:31	0°♓		
desc. node	9794 Feb 24	21:53	4°♓32'03		
superior conj	9794 Mar 05	06:07	18°♓08'11	-0°58'56	
minimum elong	9794 Mar 04	23:33	17°♓41'54	0°57'57	
max. Earth dist.	9794 Mar 09	21:58	25°♓32'49	1.45113 AU	
	9794 Mar 12	18:01	0°♈		
evening rise	9794 Mar 21	04:57	13°♈05'36		
	9794 Apr 01	08:34	0°♉		
greatest brilliancy	9794 Apr 05	03:51	5°♉36'32	-0.6m	
evening max el	9794 Apr 17	03:08	21°♉09'23	20°05'05	
asc. node	9794 Apr 19	19:06	23°♉32'15		
retrograde	9794 Apr 24	19:54	25°♉36'01		
evening set	9794 Apr 28	16:32	24°♉09'36		
inferior conj	9794 May 04	00:20	18°♉07'33	3°15'18	
minimum elong	9794 May 03	23:26	18°♉10'36	3°14'57	
min. Earth dist.	9794 May 04	21:44	16°♉55'02	0.67659 AU	
morning rise	9794 May 09	06:03	11°♉49'01		
direct	9794 May 15	00:23	9°♉14'54		
desc. node	9794 May 23	22:10	13°♉38'45		
morning max el	9794 May 26	16:24	16°♉14'58	24°47'57	
	9794 Jun 07	01:14	0°♊		
	9794 Jun 26	17:40	0°♋		
morning set	9794 Jul 01	14:15	8°♋22'29		
max. Earth dist.	9794 Jul 05	04:39	14°♋51'08	1.37134 AU	
superior conj	9794 Jul 11	21:18	27°♋31'29	-0°46'12	
minimum elong	9794 Jul 12	00:14	27°♋45'52	0°46'01	
	9794 Jul 13	03:35	0°♌		
asc. node	9794 Jul 16	18:09	7°♌11'01		
evening rise	9794 Jul 20	08:05	14°♌22'59		
	9794 Jul 28	13:16	0°♍		
evening max el	9794 Aug 06	05:48	12°♍02'14	19°26'12	
retrograde	9794 Aug 15	18:22	16°♍45'28		
evening set	9794 Aug 17	14:29	16°♍35'40		
desc. node	9794 Aug 19	21:01	15°♍58'28		
inferior conj	9794 Aug 26	07:12	12°♍29'13	-1°59'04	
minimum elong	9794 Aug 26	01:51	12°♍37'51	1°57'10	
min. Earth dist.	9794 Aug 28	19:12	10°♍52'35	0.55645 AU	
morning rise	9794 Sep 03	10:39	7°♍56'37		
direct	9794 Sep 08	10:32	7°♍00'12		
morning max el	9794 Sep 22	11:09	14°♍03'39	25°10'49	
	9794 Oct 05	00:22	0°♎		
asc. node	9794 Oct 12	18:18	13°♎32'22		
morning set	9794 Oct 19	00:01	26°♎14'32		
	9794 Oct 20	17:51	0°♏		
superior conj	9794 Oct 25	20:11	11°♏12'09	1°37'30	
minimum elong	9794 Oct 25	19:07	11°♏06'19	1°37'40	
max. Earth dist.	9794 Oct 27	08:37	14°♏32'02	1.32235 AU	
evening rise	9794 Nov 02	00:14	26°♏34'20		
	9794 Nov 03	16:37	0°♐		
desc. node	9794 Nov 15	19:12	22°♐02'37		
	9794 Nov 20	22:39	0°♑		
evening max el	9794 Dec 04	19:06	16°♑56'29	27°29'21	
retrograde	9794 Dec 18	14:28	24°♑14'28		
evening set	9794 Dec 25	15:28	21°♑49'53		
min. Earth dist.	9794 Dec 29	08:31	18°♑48'18	0.62623 AU	
inferior conj	9795 Jan 01	05:05	16°♑04'24	-2°27'39	
minimum elong	9795 Jan 01	09:55	15°♑52'48	2°25'23	
morning rise	9795 Jan 08	06:40	10°♑55'41		
asc. node	9795 Jan 08	17:50	10°♑47'01		
direct	9795 Jan 10	13:21	10°♑31'51		
morning max el	9795 Jan 17	06:24	13°♑57'43	17°47'31	
	9795 Jan 28	07:38	0°♒		
morning set	9795 Feb 02	05:38	8°♒36'16		
desc. node	9795 Feb 11	18:43	25°♒10'48		
superior conj	9795 Feb 13	21:10	28°♒43'17	-0°15'40	
minimum elong	9795 Feb 13	19:37	28°♒36'48	0°15'13	
behind sun begin	9795 Feb 13	16:43	28°♒24'40		
behind sun end	9795 Feb 13	22:31	28°♒48'56		
	9795 Feb 14	15:32	0°♓		
max. Earth dist.	9795 Feb 20	14:42	9°♓46'00	1.43937 AU	
evening rise	9795 Feb 28	17:25	22°♓33'16		
	9795 Mar 05	14:14	0°♈		
	9795 Mar 26	18:35	0°♉		
evening max el	9795 Mar 31	01:47	4°♉51'28	21°13'12	
asc. node	9795 Apr 06	16:14	9°♉36'22		
retrograde	9795 Apr 08	18:22	9°♉58'03		
evening set	9795 Apr 13	00:53	8°♉16'12		
inferior conj	9795 Apr 18	07:48	2°♉02'35	2°59'46	
minimum elong	9795 Apr 18	06:05	2°♉08'31	2°59'18	
min. Earth dist.	9795 Apr 18	15:47	1°♉34'50	0.68340 AU	
	9795 Apr 19	19:25	30°℞♈		
morning rise	9795 Apr 23	11:04	25°♈47'47		
direct	9795 Apr 28	16:16	23°♈30'20		
morning max el	9795 May 09	01:58	29°♈41'51	23°18'30	
	9795 May 09	09:07	0°♉		
desc. node	9795 May 10	19:06	1°♉29'57		
	9795 May 31	20:28	0°♊		
morning set	9795 Jun 12	22:27	19°♊18'16		
max. Earth dist.	9795 Jun 17	00:59	26°♊18'45	1.39397 AU	
	9795 Jun 19	03:29	0°♋		
superior conj	9795 Jun 24	16:44	10°♋03'28	-1°18'43	
minimum elong	9795 Jun 24	21:51	10°♋27'15	1°18'21	
asc. node	9795 Jul 03	15:06	27°♋03'54		
evening rise	9795 Jul 04	03:39	28°♋04'28		
	9795 Jul 05	03:39	0°♌		
evening max el	9795 Jul 20	06:33	24°♌08'40	18°38'50	
retrograde	9795 Jul 28	07:37	28°♌09'22		
evening set	9795 Jul 30	08:08	27°♌55'02		
desc. node	9795 Aug 06	18:11	23°♌52'22		
inferior conj	9795 Aug 07	06:07	23°♌29'59	-0°09'08	
minimum elong	9795 Aug 07	05:45	23°♌30'40	0°09'14	
transit middle	9795 Aug 07	05:45	23°♌30'40	0°09'14	
transit begin	9795 Aug 07	02:46	23°♌36'18		
transit end	9795 Aug 07	08:44	23°♌25'03		
min. Earth dist.	9795 Aug 10	11:52	21°♌04'36	0.57331 AU	
morning rise	9795 Aug 14	23:53	18°♌20'14		
direct	9795 Aug 20	18:50	16°♌57'04		
morning max el	9795 Sep 04	02:32	24°♌28'23	26°39'16	
	9795 Sep 09	04:15	0°♍		
	9795 Sep 28	02:17	0°♎		
asc. node	9795 Sep 29	15:11	3°♎02'42		
morning set	9795 Oct 03	10:08	10°♎53'23		
superior conj	9795 Oct 10	07:39	26°♎00'33	1°28'52	
minimum elong	9795 Oct 10	05:48	25°♎50'20	1°28'49	
max. Earth dist.	9795 Oct 10	16:56	26°♎52'09	1.31647 AU	
	9795 Oct 12	02:49	0°♏		
evening rise	9795 Oct 17	04:20	10°♏59'08		
	9795 Oct 26	21:57	0°♐		
desc. node	9795 Nov 02	16:19	11°♐13'24		
evening max el	9795 Nov 17	00:48	29°♐14'47	27°04'03	
	9795 Nov 17	20:24	0°♑		
retrograde	9795 Nov 30	22:31	6°♑25'10		
evening set	9795 Dec 07	20:52	4°♑19'27		
min. Earth dist.	9795 Dec 11	15:26	1°♑38'02	0.60564 AU	
	9795 Dec 13	14:26	30°℞♐		

inferior conj	9795 Dec 14	18:47	28°♐59'49	-3°41'12
minimum elong	9795 Dec 15	01:52	28°♐44'51	3°38'29
morning rise	9795 Dec 22	09:24	24°♐10'53	
direct	9795 Dec 24	13:14	23°♐52'27	
asc. node	9795 Dec 26	14:55	24°♐10'04	
morning max el	9795 Dec 31	20:47	27°♐31'45	18°00'37
	9796 Jan 03	02:19	0°♑	
morning set	9796 Jan 16	11:46	22°♑10'57	
	9796 Jan 20	17:28	0°♒	
superior conj	9796 Jan 26	13:14	10°♒29'14	0°23'21
minimum elong	9796 Jan 26	15:06	10°♒37'29	0°23'21
desc. node	9796 Jan 29	15:34	15°♒53'16	
max. Earth dist.	9796 Feb 03	03:35	23°♒30'08	1.42210 AU
	9796 Feb 07	02:49	0°♓	
evening rise	9796 Feb 08	18:35	2°♓39'26	
	9796 Feb 27	00:02	0°♈	
evening max el	9796 Mar 12	19:34	18°♈35'10	22°30'09
retrograde	9796 Mar 22	15:07	24°♈23'35	
asc. node	9796 Mar 23	13:24	24°♈19'20	
evening set	9796 Mar 27	08:39	22°♈26'35	
inferior conj	9796 Apr 01	16:41	16°♈04'00	2°34'15
minimum elong	9796 Apr 01	14:32	16°♈11'28	2°33'39
min. Earth dist.	9796 Apr 01	12:07	16°♈19'55	0.68578 AU
morning rise	9796 Apr 06	20:17	9°♈54'24	
direct	9796 Apr 11	11:48	7°♈57'50	
morning max el	9796 Apr 20	14:36	13°♈16'53	21°50'44
desc. node	9796 Apr 26	15:59	20°♈13'45	
	9796 May 03	22:35	0°♉	
morning set	9796 May 23	03:55	28°♉59'47	
	9796 May 23	18:56	0°♊	
max. Earth dist.	9796 May 29	01:08	8°♊35'38	1.41619 AU
superior conj	9796 Jun 05	17:20	21°♊42'21	-1°47'40
minimum elong	9796 Jun 05	23:34	22°♊09'44	1°47'25
	9796 Jun 10	09:02	0°♋	
evening rise	9796 Jun 16	11:37	11°♋11'02	
asc. node	9796 Jun 19	12:04	16°♋43'46	
	9796 Jun 27	06:23	0°♌	
evening max el	9796 Jul 02	15:15	6°♌50'26	18°12'01
retrograde	9796 Jul 09	16:00	10°♌23'45	
evening set	9796 Jul 11	23:54	10°♌00'59	
inferior conj	9796 Jul 19	02:43	5°♌15'00	1°18'40
minimum elong	9796 Jul 19	05:03	5°♌09'50	1°17'33
min. Earth dist.	9796 Jul 22	11:05	2°♌19'20	0.59468 AU
desc. node	9796 Jul 23	15:20	1°♌22'27	
	9796 Jul 25	13:41	30°℞♋	
morning rise	9796 Jul 26	07:06	29°♋33'19	
direct	9796 Aug 01	16:16	27°♋40'07	
	9796 Aug 09	03:33	0°♌	
morning max el	9796 Aug 16	00:49	5°♌30'16	27°36'56
	9796 Sep 03	06:14	0°♍	
asc. node	9796 Sep 15	12:02	22°♍49'22	
morning set	9796 Sep 16	17:00	25°♍20'05	
	9796 Sep 18	21:38	0°♎	
max. Earth dist.	9796 Sep 23	02:40	9°♎13'42	1.31531 AU
superior conj	9796 Sep 23	19:16	10°♎45'51	1°14'51
minimum elong	9796 Sep 23	17:03	10°♎33'31	1°14'35
evening rise	9796 Sep 30	12:52	25°♎34'09	
	9796 Oct 02	15:14	0°♏	
desc. node	9796 Oct 19	13:28	29°♏37'29	
	9796 Oct 19	19:57	0°♐	
evening max el	9796 Oct 28	22:59	10°♐42'28	26°04'55
retrograde	9796 Nov 11	20:50	17°♐45'46	
evening set	9796 Nov 18	06:34	16°♐08'05	
min. Earth dist.	9796 Nov 22	11:50	13°♐33'15	0.58466 AU
inferior conj	9796 Nov 25	14:48	11°♐16'38	-4°48'16
minimum elong	9796 Nov 25	22:24	11°♐02'42	4°46'10
morning rise	9796 Dec 03	16:40	6°♐50'17	
direct	9796 Dec 05	22:03	6°♐33'57	
asc. node	9796 Dec 12	11:56	9°♐06'49	
morning max el	9796 Dec 14	04:37	10°♐35'40	18°34'01
	9796 Dec 26	22:49	0°♑	
morning set	9796 Dec 30	06:03	6°♑18'54	
superior conj	9797 Jan 08	02:44	23°♑15'59	0°54'35
minimum elong	9797 Jan 08	05:52	23°♑30'38	0°54'31
	9797 Jan 11	18:55	0°♒	
max. Earth dist.	9797 Jan 15	12:03	6°♒34'20	1.40123 AU
desc. node	9797 Jan 15	12:29	6°♒36'10	
evening rise	9797 Jan 19	16:13	13°♒40'56	
	9797 Jan 29	21:52	0°♓	
	9797 Feb 21	03:58	0°♈	
evening max el	9797 Feb 23	10:10	2°♈21'50	23°50'25
retrograde	9797 Mar 06	08:54	8°♈48'41	
asc. node	9797 Mar 10	10:34	7°♈30'07	
evening set	9797 Mar 11	14:21	6°♈37'34	
min. Earth dist.	9797 Mar 16	08:38	1°♈05'49	0.68385 AU
inferior conj	9797 Mar 17	01:11	0°♈09'25	1°59'30
minimum elong	9797 Mar 16	23:02	0°♈16'47	1°58'50
	9797 Mar 17	03:57	30°℞♓	
morning rise	9797 Mar 22	07:44	24°♓06'11	
direct	9797 Mar 26	09:50	22°♓31'51	
morning max el	9797 Apr 03	09:42	27°♓04'17	20°31'57
	9797 Apr 06	02:47	0°♈	
desc. node	9797 Apr 13	12:50	9°♈36'14	
	9797 Apr 27	10:00	0°♉	
morning set	9797 May 02	09:44	7°♉39'38	
max. Earth dist.	9797 May 11	08:18	21°♉46'39	1.43520 AU
	9797 May 16	09:16	0°♊	
superior conj	9797 May 17	18:53	2°♊19'28	-2°07'38
minimum elong	9797 May 17	23:11	2°♊37'20	2°07'46
evening rise	9797 May 30	03:33	23°♊32'26	
	9797 Jun 02	20:02	0°♋	
asc. node	9797 Jun 06	09:05	6°♋05'31	
evening max el	9797 Jun 16	04:02	19°♋57'57	18°04'45
retrograde	9797 Jun 22	15:55	23°♋19'22	
evening set	9797 Jun 25	07:30	22°♋45'14	
inferior conj	9797 Jul 01	18:16	17°♋39'43	2°19'56
minimum elong	9797 Jul 01	21:06	17°♋32'31	2°18'49
min. Earth dist.	9797 Jul 04	19:00	14°♋36'45	0.61730 AU
morning rise	9797 Jul 08	08:28	11°♋36'16	
desc. node	9797 Jul 10	12:27	10°♋19'51	
direct	9797 Jul 15	00:54	9°♋16'04	
morning max el	9797 Jul 29	05:46	17°♋17'23	27°56'44
	9797 Aug 08	19:08	0°♌	
	9797 Aug 26	23:50	0°♍	
morning set	9797 Aug 31	18:43	9°♍29'18	
asc. node	9797 Sep 02	08:54	12°♍47'04	
max. Earth dist.	9797 Sep 06	09:56	21°♍25'38	1.31893 AU
superior conj	9797 Sep 08	05:14	25°♍22'34	0°55'46
minimum elong	9797 Sep 08	03:07	25°♍10'54	0°55'20
	9797 Sep 10	07:36	0°♎	
evening rise	9797 Sep 14	23:51	10°♎13'23	
	9797 Sep 25	00:09	0°♏	
desc. node	9797 Oct 06	10:39	16°♏56'20	
evening max el	9797 Oct 10	13:03	21°♏20'36	24°38'23
retrograde	9797 Oct 24	07:56	28°♏16'06	
evening set	9797 Oct 29	16:17	27°♏12'21	
min. Earth dist.	9797 Nov 04	00:13	24°♏25'23	0.56577 AU
inferior conj	9797 Nov 06	14:34	22°♏46'10	-5°33'52

minimum elong	9797 Nov 06	18:42	22°♏39'34	5°33'12
morning rise	9797 Nov 14	23:19	18°♏42'04	
direct	9797 Nov 17	11:48	18°♏24'42	
morning max el	9797 Nov 27	02:09	22°♏58'34	19°29'22
asc. node	9797 Nov 29	08:57	25°♏24'12	
	9797 Dec 02	20:19	0°♐	
morning set	9797 Dec 14	08:28	20°♐47'35	
	9797 Dec 18	22:15	0°♑	
superior conj	9797 Dec 22	08:33	6°♑48'12	1°17'20
minimum elong	9797 Dec 22	11:28	7°♑02'32	1°17'24
max. Earth dist.	9797 Dec 28	17:53	18°♑56'27	1.37923 AU
evening rise	9798 Jan 01	11:13	25°♑37'58	
desc. node	9798 Jan 02	09:26	27°♑15'12	
	9798 Jan 03	23:37	0°♒	
	9798 Jan 23	12:21	0°♓	
evening max el	9798 Feb 05	23:24	16°♓10'12	25°07'40
retrograde	9798 Feb 17	22:43	23°♓06'58	
evening set	9798 Feb 23	16:24	20°♓43'58	
asc. node	9798 Feb 25	07:46	19°♓09'24	
min. Earth dist.	9798 Feb 28	03:09	15°♓46'57	0.67776 AU
inferior conj	9798 Mar 01	07:25	14°♓14'37	1°15'48
minimum elong	9798 Mar 01	05:44	14°♓20'06	1°15'18
morning rise	9798 Mar 06	19:24	8°♓19'09	
direct	9798 Mar 10	09:05	7°♓05'55	
morning max el	9798 Mar 17	12:41	11°♓03'10	19°26'39
greatest brilliancy	9798 Mar 30	06:29	27°♓45'27	-0.7m
desc. node	9798 Mar 31	09:41	29°♓26'31	
	9798 Mar 31	18:39	0°♈	
morning set	9798 Apr 11	08:42	16°♈07'26	
	9798 Apr 20	07:13	0°♉	
max. Earth dist.	9798 Apr 23	21:43	5°♉39'50	1.44874 AU
superior conj	9798 Apr 27	20:18	11°♉55'15	-2°12'06
minimum elong	9798 Apr 27	18:24	11°♉47'38	2°12'19
	9798 May 08	22:55	0°♊	
evening rise	9798 May 11	22:40	4°♊58'23	
asc. node	9798 May 24	06:10	25°♊02'45	
	9798 May 27	18:54	0°♋	
evening max el	9798 May 30	17:35	3°♋22'56	18°16'14
retrograde	9798 Jun 06	02:43	6°♋46'35	
evening set	9798 Jun 09	01:56	5°♋59'05	
inferior conj	9798 Jun 15	00:38	0°♋35'54	2°57'33
minimum elong	9798 Jun 15	02:44	0°♋29'57	2°56'48
	9798 Jun 15	13:14	30°℞♊	
min. Earth dist.	9798 Jun 17	12:19	27°♊47'16	0.63853 AU
morning rise	9798 Jun 21	02:10	24°♊20'48	
desc. node	9798 Jun 27	09:33	21°♊42'48	
direct	9798 Jun 27	18:59	21°♊42'18	
morning max el	9798 Jul 11	14:57	29°♊44'42	27°39'04
	9798 Jul 11	21:00	0°♋	
	9798 Aug 02	18:29	0°♌	
morning set	9798 Aug 15	12:55	23°♌14'43	
	9798 Aug 18	20:53	0°♍	
asc. node	9798 Aug 20	05:47	2°♍51'16	
max. Earth dist.	9798 Aug 20	10:42	3°♍17'06	1.32747 AU
superior conj	9798 Aug 23	11:40	9°♍45'21	0°31'58
minimum elong	9798 Aug 23	10:12	9°♍37'27	0°31'31
evening rise	9798 Aug 30	11:23	24°♍51'30	
	9798 Sep 01	22:03	0°♎	
	9798 Sep 20	12:05	0°♏	
evening max el	9798 Sep 21	23:57	1°♏31'37	22°58'51
desc. node	9798 Sep 23	07:52	2°♏45'39	
retrograde	9798 Oct 05	06:47	8°♏09'06	
evening set	9798 Oct 09	03:43	7°♏36'20	
min. Earth dist.	9798 Oct 16	08:47	4°♏18'59	0.55207 AU
inferior conj	9798 Oct 17	19:15	3°♏29'18	-5°37'36
minimum elong	9798 Oct 17	15:45	3°♏34'21	5°37'09
	9798 Oct 25	00:18	30°℞♎	
morning rise	9798 Oct 26	05:39	29°♎39'47	
direct	9798 Oct 29	06:59	29°♎17'53	
	9798 Nov 02	09:27	0°♏	
morning max el	9798 Nov 09	10:39	4°♏32'54	20°47'09
asc. node	9798 Nov 16	05:56	12°♏46'44	
	9798 Nov 25	23:33	0°♐	
morning set	9798 Nov 28	16:08	5°♐29'07	
superior conj	9798 Dec 06	02:13	20°♐53'21	1°31'58
minimum elong	9798 Dec 06	04:10	21°♐03'21	1°32'12
	9798 Dec 10	15:15	0°♑	
max. Earth dist.	9798 Dec 11	02:04	0°♑52'46	1.35863 AU
evening rise	9798 Dec 15	01:01	8°♑24'11	
desc. node	9798 Dec 20	06:25	17°♑46'28	
	9798 Dec 27	16:03	0°♒	
evening max el	9799 Jan 19	12:42	29°♒57'21	26°14'42
	9799 Jan 19	13:48	0°♓	
retrograde	9799 Feb 01	07:31	7°♓12'13	
evening set	9799 Feb 07	13:05	4°♓40'56	
min. Earth dist.	9799 Feb 11	17:29	0°♓18'22	0.66778 AU
	9799 Feb 11	23:32	30°℞♒	
asc. node	9799 Feb 12	04:57	29°♒43'27	
inferior conj	9799 Feb 13	09:24	28°♒15'51	0°23'18
minimum elong	9799 Feb 13	08:47	28°♒17'43	0°23'17
morning rise	9799 Feb 19	05:15	22°♒29'56	
direct	9799 Feb 22	07:53	21°♒35'08	
morning max el	9799 Feb 28	22:48	25°♒09'32	18°37'05
	9799 Mar 05	02:53	0°♓	
desc. node	9799 Mar 18	06:31	19°♓37'05	
morning set	9799 Mar 22	00:19	25°♓29'58	
	9799 Mar 24	21:01	0°♈	
max. Earth dist.	9799 Apr 06	15:29	20°♈00'09	1.45551 AU
superior conj	9799 Apr 07	04:39	20°♈51'43	-1°56'33
minimum elong	9799 Apr 06	20:13	20°♈18'41	1°56'04
	9799 Apr 13	00:28	0°♉	
evening rise	9799 Apr 22	17:58	15°♉24'43	
greatest brilliancy	9799 Apr 30	20:13	28°♉18'11	-0.9m
	9799 May 01	22:06	0°♊	
asc. node	9799 May 11	03:17	13°♊26'55	
evening max el	9799 May 14	05:06	16°♊58'00	18°45'38
retrograde	9799 May 20	20:21	20°♊36'55	
evening set	9799 May 24	03:27	19°♊34'41	
inferior conj	9799 May 29	17:52	13°♊55'19	3°16'00
minimum elong	9799 May 29	18:46	13°♊52'32	3°15'34
min. Earth dist.	9799 May 31	14:29	11°♊37'19	0.65667 AU
morning rise	9799 Jun 04	09:23	7°♊35'50	
direct	9799 Jun 10	20:37	4°♊50'37	
desc. node	9799 Jun 14	06:36	5°♊29'57	
morning max el	9799 Jun 24	01:29	12°♊40'19	26°49'28
	9799 Jul 07	23:17	0°♋	
	9799 Jul 26	09:37	0°♌	
morning set	9799 Jul 29	20:29	6°♌26'56	
max. Earth dist.	9799 Aug 03	01:40	14°♌41'36	1.34104 AU
asc. node	9799 Aug 07	02:39	22°♌57'05	
superior conj	9799 Aug 07	12:13	23°♌46'53	0°03'58
minimum elong	9799 Aug 07	12:01	23°♌45'51	0°03'40
behind sun begin	9799 Aug 07	06:25	23°♌16'38	
behind sun end	9799 Aug 07	17:38	24°♌15'06	
	9799 Aug 10	11:10	0°♍	
evening rise	9799 Aug 14	21:29	9°♍21'56	
	9799 Aug 25	17:02	0°♎	
evening max el	9799 Sep 03	16:35	11°♎50'11	21°23'03

desc. node	9799 Sep 10	05:05	16°♎34'19	
retrograde	9799 Sep 15	19:37	17°♎51'08	
evening set	9799 Sep 18	08:53	17°♎36'09	
inferior conj	9799 Sep 27	12:23	13°♎39'48	-4°45'00
minimum elong	9799 Sep 27	02:57	13°♎53'00	4°42'44
min. Earth dist.	9799 Sep 27	16:42	13°♎33'44	0.54642 AU
morning rise	9799 Oct 05	21:47	9°♎48'58	
direct	9799 Oct 09	15:57	9°♎18'26	
morning max el	9799 Oct 22	06:23	15°♎18'21	22°24'23
	9799 Nov 02	12:46	0°♏	
asc. node	9799 Nov 03	02:53	0°♏59'03	
morning set	9799 Nov 13	02:47	20°♏16'44	
	9799 Nov 17	16:04	0°♐	
superior conj	9799 Nov 20	04:08	5°♐20'36	1°39'14
minimum elong	9799 Nov 20	04:51	5°♐24'24	1°39'33
max. Earth dist.	9799 Nov 23	17:20	12°♐46'13	1.34121 AU
evening rise	9799 Nov 28	05:48	21°♐49'24	
	9799 Dec 02	13:47	0°♑	
desc. node	9799 Dec 07	03:27	8°♑04'54	
	9799 Dec 21	11:23	0°♒	
evening max el	9800 Jan 02	02:13	13°♒35'47	27°04'06
retrograde	9800 Jan 15	10:26	20°♒57'13	
evening set	9800 Jan 22	02:26	18°♒22'46	
min. Earth dist.	9800 Jan 26	01:21	14°♒34'00	0.65415 AU
inferior conj	9800 Jan 28	04:56	12°♒08'12	-0°37'36
minimum elong	9800 Jan 28	06:01	12°♒05'07	0°36'50
asc. node	9800 Jan 30	02:07	10°♒03'57	
morning rise	9800 Feb 03	10:56	6°♒34'20	
direct	9800 Feb 06	04:15	5°♒54'26	
morning max el	9800 Feb 12	13:59	9°♒17'27	18°04'14
	9800 Feb 26	23:49	0°♓	
morning set	9800 Mar 02	20:48	6°♓19'49	
desc. node	9800 Mar 05	03:21	10°♓02'21	
superior conj	9800 Mar 17	12:39	29°♓54'25	-1°23'01
minimum elong	9800 Mar 17	03:46	29°♓19'18	1°21'57
	9800 Mar 17	14:04	0°♈	
max. Earth dist.	9800 Mar 20	11:27	4°♈32'49	1.45485 AU
evening rise	9800 Apr 02	16:04	25°♈03'35	
	9800 Apr 05	20:51	0°♉	
greatest brilliancy	9800 Apr 15	18:05	15°♉04'06	-0.7m
	9800 Apr 26	21:45	0°♊	
evening max el	9800 Apr 27	12:27	0°♊38'10	19°31'45
asc. node	9800 Apr 28	00:26	1°♊07'44	
retrograde	9800 May 04	17:45	4°♊44'08	
evening set	9800 May 08	09:17	3°♊26'30	
	9800 May 11	20:38	30°℞♉	
inferior conj	9800 May 13	18:41	27°♉32'17	3°19'12
minimum elong	9800 May 13	18:23	27°♉33'16	3°18'53
min. Earth dist.	9800 May 15	00:16	25°♉54'40	0.67064 AU
morning rise	9800 May 19	03:08	21°♉12'49	
direct	9800 May 25	04:29	18°♉32'08	
desc. node	9800 Jun 01	03:35	21°♉14'30	
morning max el	9800 Jun 06	11:34	25°♉53'53	25°36'37
	9800 Jun 10	05:48	0°♊	
	9800 Jul 01	12:19	0°♋	
morning set	9800 Jul 12	13:35	18°♋56'14	
max. Earth dist.	9800 Jul 16	06:19	25°♋48'08	1.35929 AU
	9800 Jul 18	10:54	0°♌	
superior conj	9800 Jul 22	04:15	7°♌20'29	-0°27'19
minimum elong	9800 Jul 22	05:55	7°♌28'51	0°27'19
asc. node	9800 Jul 24	23:35	13°♌01'08	
evening rise	9800 Jul 30	04:03	23°♌39'14	
	9800 Aug 02	07:39	0°♍	
evening max el	9800 Aug 16	21:35	22°♍45'09	20°02'54
retrograde	9800 Aug 27	09:13	27°♍56'58	
desc. node	9800 Aug 28	02:17	27°♍55'37	
evening set	9800 Aug 29	07:13	27°♍47'19	
inferior conj	9800 Sep 07	07:44	23°♍47'52	-3°05'31
minimum elong	9800 Sep 06	23:31	24°♍00'11	3°02'43
min. Earth dist.	9800 Sep 09	02:18	22°♍44'06	0.55022 AU
morning rise	9800 Sep 15	14:33	19°♍35'25	
direct	9800 Sep 20	03:18	18°♍50'51	
morning max el	9800 Oct 03	18:42	25°♍32'26	24°11'16
	9800 Oct 07	23:23	0°♎	
asc. node	9800 Oct 20	23:47	19°♎49'09	
	9800 Oct 26	04:24	0°♏	
morning set	9800 Oct 28	14:34	5°♏05'12	
superior conj	9800 Nov 04	11:31	20°♏01'44	1°39'53
minimum elong	9800 Nov 04	11:03	19°♏59'11	1°40'09
max. Earth dist.	9800 Nov 06	16:54	24°♏50'37	1.32796 AU
	9800 Nov 09	03:11	0°♐	
evening rise	9800 Nov 11	21:59	5°♐44'15	
desc. node	9800 Nov 24	00:31	28°♐04'14	
	9800 Nov 25	04:37	0°♑	
evening max el	9800 Dec 15	14:27	26°♑53'09	27°28'44
	9800 Dec 19	05:10	0°♒	
retrograde	9800 Dec 29	06:35	4°♒13'16	
evening set	9801 Jan 05	05:58	1°♒42'30	
	9801 Jan 07	08:31	30°℞♑	
min. Earth dist.	9801 Jan 09	00:31	28°♑25'20	0.63724 AU
inferior conj	9801 Jan 11	15:21	25°♑44'56	-1°45'54
minimum elong	9801 Jan 11	18:44	25°♑36'18	1°44'09
asc. node	9801 Jan 16	23:15	21°♑08'32	
morning rise	9801 Jan 18	09:25	20°♑26'10	
direct	9801 Jan 20	19:24	19°♑57'28	
morning max el	9801 Jan 27	07:27	23°♑19'17	17°48'34
	9801 Feb 01	15:20	0°♒	
morning set	9801 Feb 12	20:35	18°♒28'58	
	9801 Feb 19	15:15	0°♓	
desc. node	9801 Feb 20	00:10	0°♓37'20	
superior conj	9801 Feb 25	13:40	9°♓48'51	-0°40'25
minimum elong	9801 Feb 25	09:17	9°♓30'59	0°39'38
max. Earth dist.	9801 Mar 03	06:33	18°♓59'31	1.44690 AU
	9801 Mar 10	07:04	0°♈	
evening rise	9801 Mar 13	03:40	4°♈24'18	
	9801 Mar 30	07:57	0°♉	
evening max el	9801 Apr 10	14:17	14°♉19'22	20°32'40
asc. node	9801 Apr 14	21:36	17°♉51'26	
retrograde	9801 Apr 18	16:26	19°♉02'09	
evening set	9801 Apr 22	17:14	17°♉28'54	
inferior conj	9801 Apr 28	00:22	11°♉21'34	3°09'58
minimum elong	9801 Apr 27	23:05	11°♉25'58	3°09'36
min. Earth dist.	9801 Apr 28	15:51	10°♉28'24	0.68005 AU
morning rise	9801 May 03	04:43	5°♉04'39	
direct	9801 May 08	17:33	2°♉37'10	
desc. node	9801 May 19	00:31	8°♉26'26	
morning max el	9801 May 19	21:01	9°♉17'11	24°10'21
	9801 Jun 05	04:49	0°♊	
morning set	9801 Jun 24	11:20	0°♋29'56	
	9801 Jun 24	04:24	0°♋	
max. Earth dist.	9801 Jun 28	04:06	7°♋00'17	1.38087 AU
superior conj	9801 Jul 05	08:20	20°♋17'26	-1°00'09
minimum elong	9801 Jul 05	12:15	20°♋36'08	0°59'51
	9801 Jul 10	08:12	0°♌	
asc. node	9801 Jul 11	20:32	2°♌59'21	
evening rise	9801 Jul 14	04:32	7°♌36'17	
	9801 Jul 26	21:46	0°♍	
evening max el	9801 Jul 30	15:50	4°♍26'15	19°03'25

retrograde	9801 Aug 08 12:15	8°♍50'13	
evening set	9801 Aug 10 09:28	8°♍39'03	
desc. node	9801 Aug 14 23:26	6°♍50'53	
inferior conj	9801 Aug 18 18:36	4°♍24'53	-1°10'34
minimum elong	9801 Aug 18 15:32	4°♍30'09	1°09'33
min. Earth dist.	9801 Aug 21 15:55	2°♍26'07	0.56284 AU
	9801 Aug 25 21:00	30℞♌	
morning rise	9801 Aug 26 18:32	29°♌36'28	
direct	9801 Sep 01 02:38	28°♌29'48	
	9801 Sep 07 08:32	0°♍	
morning max el	9801 Sep 15 07:30	5°♍45'55	25°51'32
	9801 Oct 02 23:01	0°♎	
asc. node	9801 Oct 07 20:40	9°♎07'30	
morning set	9801 Oct 13 01:48	19°♎49'49	
	9801 Oct 17 17:42	0°♏	
superior conj	9801 Oct 19 22:06	4°♏50'02	1°34'31
minimum elong	9801 Oct 19 20:40	4°♏42'08	1°34'36
max. Earth dist.	9801 Oct 20 22:55	7°♏07'10	1.31927 AU
evening rise	9801 Oct 26 22:30	20°♏00'44	
	9801 Oct 31 21:44	0°♐	
desc. node	9801 Nov 10 21:36	17°♐36'27	
	9801 Nov 19 11:02	0°♑	
evening max el	9801 Nov 27 23:07	9°♑36'31	27°22'42
retrograde	9801 Dec 11 19:30	16°♑51'27	
evening set	9801 Dec 18 20:37	14°♑33'20	
min. Earth dist.	9801 Dec 22 13:25	11°♑42'00	0.61767 AU
inferior conj	9801 Dec 25 13:37	8°♑58'31	-2°58'56
minimum elong	9801 Dec 25 19:31	8°♑45'08	2°56'24
morning rise	9802 Jan 01 20:51	3°♑58'08	
asc. node	9802 Jan 03 20:19	3°♑37'14	
direct	9802 Jan 04 01:58	3°♑36'59	
morning max el	9802 Jan 11 00:03	7°♑07'07	17°50'47
	9802 Jan 25 19:37	0°♒	
morning set	9802 Jan 26 17:26	1°♒38'08	
superior conj	9802 Feb 06 15:40	20°♒55'39	0°01'42
minimum elong	9802 Feb 06 15:51	20°♒56'23	0°01'56
behind sun begin	9802 Feb 06 07:20	20°♒19'55	
behind sun end	9802 Feb 07 00:22	21°♒32'45	
desc. node	9802 Feb 06 21:02	21°♒18'33	
	9802 Feb 12 01:20	0°♓	
max. Earth dist.	9802 Feb 13 21:54	3°♓02'32	1.43259 AU
evening rise	9802 Feb 20 20:05	14°♓05'02	
	9802 Mar 03 07:22	0°♈	
evening max el	9802 Mar 24 10:34	28°♈01'21	21°45'03
	9802 Mar 26 12:59	0°♉	
asc. node	9802 Apr 01 18:45	3°♉22'54	
retrograde	9802 Apr 02 14:28	3°♉26'16	
evening set	9802 Apr 07 01:32	1°♉37'44	
	9802 Apr 08 17:59	30℞♈	
inferior conj	9802 Apr 12 08:41	25°♈19'39	2°50'07
minimum elong	9802 Apr 12 06:44	25°♈26'25	2°49'35
min. Earth dist.	9802 Apr 12 11:10	25°♈10'59	0.68493 AU
morning rise	9802 Apr 17 11:46	19°♈06'52	
direct	9802 Apr 22 11:01	16°♈58'13	
morning max el	9802 May 02 07:37	22°♈47'41	22°40'29
desc. node	9802 May 05 21:26	26°♈42'02	
	9802 May 08 14:42	0°♉	
	9802 May 29 12:57	0°♊	
morning set	9802 Jun 05 08:28	10°♊54'47	
max. Earth dist.	9802 Jun 10 01:20	18°♊46'30	1.40359 AU
	9802 Jun 16 11:31	0°♋	
superior conj	9802 Jun 17 20:17	2°♋27'35	-1°31'43
minimum elong	9802 Jun 18 02:07	2°♋54'02	1°31'21
evening rise	9802 Jun 27 19:41	21°♋04'09	
asc. node	9802 Jun 28 17:30	22°♋47'19	
	9802 Jul 02 14:20	0°♌	
evening max el	9802 Jul 13 20:25	16°♌48'41	18°25'00
retrograde	9802 Jul 21 09:58	20°♌36'12	
evening set	9802 Jul 23 13:17	20°♌18'51	
inferior conj	9802 Jul 31 02:54	15°♌45'01	0°31'19
minimum elong	9802 Jul 31 04:00	15°♌42'48	0°30'37
desc. node	9802 Aug 01 20:37	14°♌20'25	
min. Earth dist.	9802 Aug 03 11:25	13°♌03'50	0.58195 AU
morning rise	9802 Aug 07 15:12	10°♌20'13	
direct	9802 Aug 13 16:45	8°♌44'16	
morning max el	9802 Aug 28 01:52	16°♌25'34	27°08'13
	9802 Sep 08 05:06	0°♍	
asc. node	9802 Sep 24 17:31	28°♍45'40	
	9802 Sep 25 08:03	0°♎	
morning set	9802 Sep 27 10:46	4°♎24'35	
superior conj	9802 Oct 04 09:52	19°♎38'15	1°23'34
minimum elong	9802 Oct 04 07:49	19°♎26'51	1°23'26
max. Earth dist.	9802 Oct 04 08:11	19°♎28'55	1.31533 AU
	9802 Oct 09 02:26	0°♏	
evening rise	9802 Oct 11 04:44	4°♏30'45	
	9802 Oct 24 15:07	0°♐	
desc. node	9802 Oct 28 18:44	6°♐29'41	
evening max el	9802 Nov 10 01:39	21°♐33'37	26°42'47
retrograde	9802 Nov 23 23:59	28°♐41'49	
evening set	9802 Nov 30 18:17	26°♐46'44	
min. Earth dist.	9802 Dec 04 15:43	24°♐10'11	0.59663 AU
inferior conj	9802 Dec 07 20:12	21°♐38'45	-4°11'08
minimum elong	9802 Dec 08 03:51	21°♐23'32	4°08'33
morning rise	9802 Dec 15 16:02	16°♐59'29	
direct	9802 Dec 17 19:44	16°♐42'29	
asc. node	9802 Dec 21 17:22	17°♐41'14	
morning max el	9802 Dec 25 12:12	20°♐30'16	18°12'14
	9803 Jan 01 14:57	0°♑	
morning set	9803 Jan 10 05:17	15°♑28'29	
	9803 Jan 17 23:48	0°♒	
superior conj	9803 Jan 19 17:28	3°♒09'24	0°37'36
minimum elong	9803 Jan 19 20:07	3°♒21'20	0°37'32
desc. node	9803 Jan 24 17:54	12°♒01'44	
max. Earth dist.	9803 Jan 27 08:16	16°♒28'26	1.41351 AU
evening rise	9803 Feb 01 05:26	24°♒33'45	
	9803 Feb 04 14:54	0°♓	
	9803 Feb 25 04:35	0°♈	
evening max el	9803 Mar 07 02:41	11°♈45'59	23°04'16
retrograde	9803 Mar 17 10:14	17°♈52'08	
asc. node	9803 Mar 19 15:55	17°♈27'44	
evening set	9803 Mar 22 08:37	15°♈49'06	
inferior conj	9803 Mar 27 17:39	9°♈23'29	2°20'40
minimum elong	9803 Mar 27 15:27	9°♈31'08	2°20'00
min. Earth dist.	9803 Mar 27 07:58	9°♈57'01	0.68542 AU
morning rise	9803 Apr 01 22:10	3°♈16'11	
direct	9803 Apr 06 07:50	1°♈29'04	
morning max el	9803 Apr 14 22:40	6°♈27'43	21°15'45
desc. node	9803 Apr 22 18:19	15°♈44'00	
	9803 May 02 21:48	0°♉	
morning set	9803 May 16 02:49	20°♉06'55	
	9803 May 22 06:57	0°♊	
max. Earth dist.	9803 May 23 03:44	1°♊24'54	1.42473 AU
superior conj	9803 May 30 11:33	13°♊41'21	-1°57'37
minimum elong	9803 May 30 17:28	14°♊06'43	1°57'31
	9803 Jun 08 17:46	0°♋	
evening rise	9803 Jun 10 21:26	3°♋53'00	
asc. node	9803 Jun 15 14:30	12°♋20'32	
evening max el	9803 Jun 27 07:23	29°♋43'21	18°06'43

	9803 Jun 27 14:16	0°♌	
retrograde	9803 Jul 04 01:20	3°♌09'36	
evening set	9803 Jul 06 12:31	2°♌42'20	
	9803 Jul 10 21:07	30°℞♋	
inferior conj	9803 Jul 13 08:04	27°♋48'15	1°47'46
minimum elong	9803 Jul 13 10:50	27°♋41'45	1°46'33
min. Earth dist.	9803 Jul 16 14:20	24°♋46'22	0.60428 AU
desc. node	9803 Jul 19 17:46	22°♋16'42	
morning rise	9803 Jul 20 06:21	21°♋56'03	
direct	9803 Jul 26 19:41	19°♋50'15	
morning max el	9803 Aug 10 03:05	27°♋46'44	27°50'03
	9803 Aug 12 06:24	0°♌	
	9803 Sep 01 22:58	0°♍	
morning set	9803 Sep 11 15:43	18°♍44'53	
asc. node	9803 Sep 11 14:24	18°♍37'59	
	9803 Sep 16 21:41	0°♎	
max. Earth dist.	9803 Sep 17 17:11	1°♎47'15	1.31624 AU
superior conj	9803 Sep 18 21:03	4°♎21'13	1°07'23
minimum elong	9803 Sep 18 18:48	4°♎08'48	1°07'02
evening rise	9803 Sep 25 14:34	19°♎08'40	
	9803 Sep 30 20:40	0°♏	
desc. node	9803 Oct 15 15:54	24°♏28'55	
	9803 Oct 20 05:45	0°♐	
evening max el	9803 Oct 22 20:21	2°♐39'48	25°30'50
retrograde	9803 Nov 05 17:55	9°♐40'10	
evening set	9803 Nov 11 18:11	8°♐16'55	
min. Earth dist.	9803 Nov 16 08:41	5°♐38'57	0.57622 AU
inferior conj	9803 Nov 19 07:49	3°♐36'35	-5°11'23
minimum elong	9803 Nov 19 14:33	3°♐24'58	5°09'52
	9803 Nov 25 11:22	30°℞♏	
morning rise	9803 Nov 27 13:15	29°♏19'42	
direct	9803 Nov 29 20:46	29°♏03'24	
	9803 Dec 04 00:55	0°♐	
morning max el	9803 Dec 08 16:04	3°♐18'05	18°54'40
asc. node	9803 Dec 08 14:23	3°♐14'02	
morning set	9803 Dec 25 03:26	29°♐46'27	
	9803 Dec 25 06:12	0°♑	
superior conj	9804 Jan 02 14:28	16°♑16'54	1°05'16
minimum elong	9804 Jan 02 17:39	16°♑32'05	1°05'13
max. Earth dist.	9804 Jan 09 14:58	29°♑13'03	1.39192 AU
	9804 Jan 10 01:33	0°♒	
desc. node	9804 Jan 11 14:49	2°♒43'31	
evening rise	9804 Jan 13 12:22	5°♒59'49	
	9804 Jan 28 16:07	0°♓	
evening max el	9804 Feb 17 16:38	25°♓34'13	24°24'09
	9804 Feb 22 22:44	0°♈	
retrograde	9804 Feb 29 02:24	2°♈14'49	
evening set	9804 Mar 05 12:57	29°♓58'37	
asc. node	9804 Mar 05 13:07	29°♓58'15	
	9804 Mar 05 12:18	30°℞♓	
min. Earth dist.	9804 Mar 10 03:59	24°♓41'27	0.68175 AU
inferior conj	9804 Mar 11 01:26	23°♓29'29	1°42'04
minimum elong	9804 Mar 10 23:25	23°♓36'16	1°41'27
morning rise	9804 Mar 16 09:58	17°♓29'09	
direct	9804 Mar 20 06:43	16°♓03'49	
morning max el	9804 Mar 27 20:56	20°♓19'41	20°02'16
	9804 Apr 04 20:12	0°♈	
desc. node	9804 Apr 08 15:11	5°♈19'27	
morning set	9804 Apr 24 02:45	28°♈32'43	
	9804 Apr 25 01:23	0°♉	
max. Earth dist.	9804 May 04 13:40	14°♉55'22	1.44174 AU
superior conj	9804 May 10 02:37	23°♉51'36	-2°11'47
minimum elong	9804 May 10 04:44	24°♉00'13	2°12'03
	9804 May 13 20:08	0°♊	
evening rise	9804 May 23 05:00	15°♊51'25	
	9804 May 31 12:47	0°♋	
asc. node	9804 Jun 01 11:34	1°♋32'41	
evening max el	9804 Jun 09 20:56	12°♋59'25	18°07'27
retrograde	9804 Jun 16 06:18	16°♋19'45	
evening set	9804 Jun 19 01:15	15°♋39'59	
inferior conj	9804 Jun 25 06:23	10°♋26'46	2°38'29
minimum elong	9804 Jun 25 09:00	10°♋19'46	2°37'31
min. Earth dist.	9804 Jun 28 01:59	7°♋27'43	0.62666 AU
morning rise	9804 Jul 01 14:58	4°♋17'39	
desc. node	9804 Jul 05 14:54	2°♋12'28	
direct	9804 Jul 08 08:32	1°♋48'23	
morning max el	9804 Jul 22 09:54	9°♋50'44	27°53'34
	9804 Aug 07 02:39	0°♌	
	9804 Aug 24 05:46	0°♍	
morning set	9804 Aug 25 14:31	2°♍44'20	
asc. node	9804 Aug 28 11:16	8°♍38'49	
max. Earth dist.	9804 Aug 30 22:06	13°♍51'10	1.32197 AU
superior conj	9804 Sep 02 05:45	18°♍52'33	0°46'15
minimum elong	9804 Sep 02 03:50	18°♍42'05	0°45'47
	9804 Sep 07 07:46	0°♎	
evening rise	9804 Sep 09 02:00	3°♎48'07	
	9804 Sep 23 00:21	0°♏	
desc. node	9804 Oct 01 13:07	11°♏13'13	
evening max el	9804 Oct 03 08:22	13°♏03'21	23°56'42
retrograde	9804 Oct 16 23:23	19°♏52'12	
evening set	9804 Oct 21 17:28	19°♏02'46	
min. Earth dist.	9804 Oct 27 18:51	16°♏05'03	0.55918 AU
inferior conj	9804 Oct 29 23:03	14°♏46'03	-5°41'46
minimum elong	9804 Oct 30 00:15	14°♏44'14	5°41'29
morning rise	9804 Nov 07 09:01	10°♏49'22	
direct	9804 Nov 10 02:35	10°♏30'21	
morning max el	9804 Nov 20 08:10	15°♏20'45	19°59'41
asc. node	9804 Nov 24 11:23	20°♏01'08	
	9804 Nov 30 21:44	0°♐	
morning set	9804 Dec 08 08:27	14°♐22'12	
superior conj	9804 Dec 16 01:49	0°♑04'53	1°24'30
minimum elong	9804 Dec 16 04:24	0°♑17'44	1°24'37
	9804 Dec 16 00:51	0°♑	
max. Earth dist.	9804 Dec 21 21:38	11°♑24'05	1.37024 AU
evening rise	9804 Dec 25 15:50	18°♑19'28	
desc. node	9804 Dec 28 11:46	23°♑20'10	
	9805 Jan 01 09:52	0°♒	
	9805 Jan 21 22:02	0°♓	
evening max el	9805 Jan 30 06:00	9°♓24'00	25°37'50
retrograde	9805 Feb 11 14:01	16°♓29'04	
evening set	9805 Feb 17 12:57	14°♓02'06	
asc. node	9805 Feb 20 10:18	11°♓05'40	
min. Earth dist.	9805 Feb 21 20:56	9°♓19'54	0.67405 AU
inferior conj	9805 Feb 23 06:07	7°♓34'09	0°54'37
minimum elong	9805 Feb 23 04:49	7°♓38'18	0°54'17
morning rise	9805 Feb 28 21:10	1°♓42'34	
direct	9805 Mar 04 06:04	0°♓37'24	
morning max el	9805 Mar 11 03:09	4°♓22'58	19°03'34
greatest brilliancy	9805 Mar 24 14:03	22°♓24'53	-0.7m
desc. node	9805 Mar 26 12:01	25°♓19'36	
	9805 Mar 29 13:06	0°♈	
morning set	9805 Apr 03 06:24	7°♈17'50	
max. Earth dist.	9805 Apr 17 05:56	29°♈05'03	1.45260 AU
	9805 Apr 17 19:55	0°♉	
superior conj	9805 Apr 19 19:17	3°♉06'34	-2°08'01
minimum elong	9805 Apr 19 14:12	2°♉46'28	2°08'01
evening rise	9805 May 04 14:10	26°♉52'20	
	9805 May 06 12:04	0°♊	

asc. node	9805 May 19 08:40	20°♊17'00	
evening max el	9805 May 24 09:55	26°♊29'20	18°26'31
retrograde	9805 May 30 20:29	29°♊57'51	
evening set	9805 Jun 02 23:05	29°♊04'02	
inferior conj	9805 Jun 08 17:48	23°♊33'30	3°07'26
minimum elong	9805 Jun 08 19:24	23°♊28'44	3°06'51
min. Earth dist.	9805 Jun 10 23:02	20°♊56'38	0.64676 AU
morning rise	9805 Jun 14 14:43	17°♊15'51	
direct	9805 Jun 21 05:42	14°♊33'27	
desc. node	9805 Jun 22 11:59	14°♊38'47	
morning max el	9805 Jul 04 20:02	22°♊31'32	27°21'27
	9805 Jul 11 09:52	0°♋	
	9805 Jul 31 08:54	0°♌	
morning set	9805 Aug 09 04:34	16°♌16'08	
max. Earth dist.	9805 Aug 13 19:13	25°♌31'56	1.33266 AU
asc. node	9805 Aug 15 08:10	28°♌43'55	
	9805 Aug 15 22:40	0°♍	
superior conj	9805 Aug 17 09:56	3°♍06'31	0°20'34
minimum elong	9805 Aug 17 08:55	3°♍01'10	0°20'09
evening rise	9805 Aug 24 13:08	18°♍23'25	
	9805 Aug 30 05:43	0°♎	
evening max el	9805 Sep 14 20:22	23°♎12'04	22°16'43
desc. node	9805 Sep 18 10:20	26°♎14'56	
retrograde	9805 Sep 27 17:06	29°♎36'37	
evening set	9805 Sep 30 23:22	29°♎13'03	
min. Earth dist.	9805 Oct 09 02:20	25°♎38'29	0.54852 AU
inferior conj	9805 Oct 09 21:19	25°♎11'46	-5°22'19
minimum elong	9805 Oct 09 14:36	25°♎21'12	5°21'13
morning rise	9805 Oct 18 07:30	21°♎24'37	
direct	9805 Oct 21 15:44	20°♎59'39	
morning max el	9805 Nov 02 10:51	26°♎33'03	21°26'40
	9805 Nov 05 17:02	0°♏	
asc. node	9805 Nov 11 08:21	7°♏46'26	
morning set	9805 Nov 22 17:38	29°♏07'26	
	9805 Nov 23 03:42	0°♐	
superior conj	9805 Nov 29 23:23	14°♐20'54	1°35'54
minimum elong	9805 Nov 30 00:50	14°♐28'23	1°36'11
max. Earth dist.	9805 Dec 04 08:39	23°♐18'02	1.35073 AU
	9805 Dec 07 18:55	0°♑	
evening rise	9805 Dec 08 12:25	1°♑23'21	
desc. node	9805 Dec 15 08:45	13°♑46'46	
	9805 Dec 25 10:45	0°♒	
evening max el	9806 Jan 12 19:19	23°♒08'20	26°38'10
	9806 Jan 22 22:36	0°♓	
retrograde	9806 Jan 25 20:19	0°♓27'11	
	9806 Jan 28 14:26	30°♑♒	
evening set	9806 Feb 01 06:46	27°♒53'30	
min. Earth dist.	9806 Feb 05 08:38	23°♒45'47	0.66248 AU
inferior conj	9806 Feb 07 05:37	21°♒32'14	-0°01'32
minimum elong	9806 Feb 07 05:39	21°♒32'09	0°01'15
transit middle	9806 Feb 07 05:39	21°♒32'09	0°01'15
transit begin	9806 Feb 07 02:45	21°♒40'49	
transit end	9806 Feb 07 08:34	21°♒23'29	
asc. node	9806 Feb 07 07:29	21°♒26'42	
morning rise	9806 Feb 13 05:34	15°♒51'25	
direct	9806 Feb 16 04:02	15°♒03'27	
morning max el	9806 Feb 22 15:47	18°♒31'26	18°21'03
	9806 Mar 03 10:32	0°♓	
desc. node	9806 Mar 13 08:48	15°♓37'00	
morning set	9806 Mar 14 09:44	17°♓16'30	
	9806 Mar 22 09:57	0°♈	
superior conj	9806 Mar 30 01:03	11°♈59'11	-1°44'05
minimum elong	9806 Mar 29 15:32	11°♈21'57	1°43'16
max. Earth dist.	9806 Mar 31 01:06	13°♈33'16	1.45617 AU
	9806 Apr 10 13:31	0°♉	
evening rise	9806 Apr 14 23:42	6°♉56'19	
greatest brilliancy	9806 Apr 25 08:59	23°♉10'16	-0.8m
	9806 Apr 29 21:59	0°♊	
asc. node	9806 May 06 05:47	8°♊24'19	
evening max el	9806 May 07 19:46	10°♊06'47	19°03'13
retrograde	9806 May 14 16:12	13°♊56'16	
evening set	9806 May 18 02:44	12°♊47'34	
inferior conj	9806 May 23 14:38	7°♊01'27	3°19'01
minimum elong	9806 May 23 15:00	7°♊00'16	3°18'40
min. Earth dist.	9806 May 25 04:44	4°♊59'51	0.66313 AU
morning rise	9806 May 29 02:45	0°♊41'19	
	9806 May 29 22:48	30°♑♉	
direct	9806 Jun 04 10:03	27°♉56'56	
desc. node	9806 Jun 09 09:00	29°♉19'41	
	9806 Jun 10 13:13	0°♊	
morning max el	9806 Jun 17 06:47	5°♊37'13	26°20'47
	9806 Jul 06 00:06	0°♋	
morning set	9806 Jul 23 06:34	29°♋12'02	
	9806 Jul 23 16:47	0°♌	
max. Earth dist.	9806 Jul 27 05:48	6°♌47'48	1.34824 AU
superior conj	9806 Aug 01 07:13	16°♌57'10	-0°09'00
minimum elong	9806 Aug 01 07:45	16°♌59'52	0°09'12
behind sun begin	9806 Aug 01 02:51	16°♌34'42	
behind sun end	9806 Aug 01 12:39	17°♌25'05	
asc. node	9806 Aug 02 05:04	18°♌49'38	
	9806 Aug 07 13:32	0°♍	
evening rise	9806 Aug 08 22:02	2°♍49'20	
	9806 Aug 24 10:13	0°♎	
evening max el	9806 Aug 27 17:40	3°♎43'30	20°46'37
desc. node	9806 Sep 05 07:33	9°♎03'42	
retrograde	9806 Sep 08 05:09	9°♎25'04	
evening set	9806 Sep 10 09:26	9°♎13'36	
inferior conj	9806 Sep 19 13:34	5°♎17'27	-4°07'01
minimum elong	9806 Sep 19 03:48	5°♎31'23	4°04'10
min. Earth dist.	9806 Sep 20 10:53	4°♎46'57	0.54676 AU
morning rise	9806 Sep 27 22:09	1°♎19'40	
direct	9806 Oct 01 23:41	0°♎44'14	
morning max el	9806 Oct 15 02:44	7°♎03'03	23°09'38
asc. node	9806 Oct 29 05:16	26°♎16'12	
	9806 Oct 31 06:33	0°♏	
morning set	9806 Nov 07 04:59	13°♏56'16	
superior conj	9806 Nov 14 03:58	28°♏55'29	1°40'17
minimum elong	9806 Nov 14 04:09	28°♏56'32	1°40'35
	9806 Nov 14 15:59	0°♐	
max. Earth dist.	9806 Nov 17 03:13	5°♐14'08	1.33495 AU
evening rise	9806 Nov 21 22:27	15°♐02'24	
	9806 Nov 29 22:36	0°♑	
desc. node	9806 Dec 02 05:48	3°♑58'04	
	9806 Dec 20 04:29	0°♒	
evening max el	9806 Dec 26 08:15	6°♒38'42	27°17'53
retrograde	9807 Jan 08 20:39	14°♒01'14	
evening set	9807 Jan 15 16:17	11°♒27'08	
min. Earth dist.	9807 Jan 19 13:00	7°♒52'21	0.64735 AU
inferior conj	9807 Jan 21 21:36	5°♒18'44	-1°05'46
minimum elong	9807 Jan 21 23:36	5°♒13'18	1°04'35
asc. node	9807 Jan 25 04:37	1°♒59'22	
morning rise	9807 Jan 28 08:34	29°♑51'07	
	9807 Jan 28 00:58	30°♑♑	
direct	9807 Jan 30 22:23	29°♑16'36	
	9807 Feb 02 19:59	0°♒	
morning max el	9807 Feb 06 08:21	2°♒38'05	17°55'22
morning set	9807 Feb 23 18:23	28°♒41'47	
	9807 Feb 24 13:10	0°♓	
desc. node	9807 Feb 28 05:36	6°♓06'45	

superior conj	9807 Mar 09 14:36	21°♓19'50	-1°05'25
minimum elong	9807 Mar 09 07:19	20°♓50'49	1°04'24
max. Earth dist.	9807 Mar 13 20:24	28°♓03'11	1.45232 AU
	9807 Mar 15 02:08	0°♈	
evening rise	9807 Mar 25 15:27	16°♈22'19	
	9807 Apr 03 14:01	0°♉	
greatest brilliancy	9807 Apr 09 07:19	8°♉30'56	-0.6m
evening max el	9807 Apr 21 00:46	23°♉47'22	19°56'03
asc. node	9807 Apr 23 02:56	25°♉42'34	
retrograde	9807 Apr 28 14:24	28°♉08'24	
evening set	9807 May 02 09:40	26°♉44'19	
inferior conj	9807 May 07 17:49	20°♉44'21	3°16'42
minimum elong	9807 May 07 17:04	20°♉46'53	3°16'22
min. Earth dist.	9807 May 08 17:21	19°♉25'07	0.67519 AU
morning rise	9807 May 13 00:08	14°♉25'29	
direct	9807 May 18 20:22	11°♉49'19	
desc. node	9807 May 27 05:57	15°♉44'34	
morning max el	9807 May 30 16:28	18°♉55'35	25°00'51
	9807 Jun 09 01:15	0°♊	
	9807 Jun 29 02:08	0°♋	
morning set	9807 Jul 05 16:03	11°♋19'32	
max. Earth dist.	9807 Jul 09 06:27	17°♋51'25	1.36812 AU
superior conj	9807 Jul 15 18:35	0°♌16'14	-0°41'12
minimum elong	9807 Jul 15 21:11	0°♌29'01	0°41'04
	9807 Jul 15 15:17	0°♌	
asc. node	9807 Jul 20 01:58	8°♌51'38	
evening rise	9807 Jul 24 02:20	16°♌58'39	
	9807 Jul 30 19:34	0°♍	
evening max el	9807 Aug 10 04:34	14°♍58'19	19°35'03
retrograde	9807 Aug 19 22:57	19°♍48'33	
evening set	9807 Aug 21 19:11	19°♍38'58	
desc. node	9807 Aug 23 04:46	19°♍19'36	
inferior conj	9807 Aug 30 14:15	15°♍34'47	-2°16'38
minimum elong	9807 Aug 30 08:05	15°♍44'31	2°14'26
min. Earth dist.	9807 Sep 01 22:16	14°♍06'25	0.55459 AU
morning rise	9807 Sep 07 18:42	11°♍07'42	
direct	9807 Sep 12 15:50	10°♍14'30	
morning max el	9807 Sep 26 14:19	17°♍12'40	24°55'46
	9807 Oct 07 01:21	0°♎	
asc. node	9807 Oct 16 02:09	15°♎18'55	
morning set	9807 Oct 22 16:41	28°♎43'00	
	9807 Oct 23 07:03	0°♏	
superior conj	9807 Oct 29 12:56	13°♏40'07	1°38'18
minimum elong	9807 Oct 29 12:01	13°♏35'07	1°38'31
max. Earth dist.	9807 Oct 31 05:36	17°♏22'26	1.32365 AU
evening rise	9807 Nov 05 18:30	29°♏07'07	
	9807 Nov 06 04:50	0°♐	
desc. node	9807 Nov 19 02:54	23°♐46'48	
	9807 Nov 23 01:29	0°♑	
evening max el	9807 Dec 08 19:21	19°♑43'22	27°30'18
retrograde	9807 Dec 22 14:04	27°♑01'58	
evening set	9807 Dec 29 14:46	24°♑35'37	
min. Earth dist.	9808 Jan 02 08:09	21°♑30'07	0.62912 AU
inferior conj	9808 Jan 05 03:16	18°♑46'48	-2°16'32
minimum elong	9808 Jan 05 07:43	18°♑35'56	2°14'25
morning rise	9808 Jan 12 02:51	13°♑35'16	
asc. node	9808 Jan 12 01:42	13°♑36'17	
direct	9808 Jan 14 10:18	13°♑10'17	
morning max el	9808 Jan 21 01:49	16°♑34'56	17°47'13
	9808 Jan 30 14:43	0°♒	
morning set	9808 Feb 06 04:01	11°♒19'23	
desc. node	9808 Feb 15 02:26	26°♒44'56	
	9808 Feb 17 00:50	0°♓	
superior conj	9808 Feb 18 01:57	1°♓44'39	-0°22'05
minimum elong	9808 Feb 17 23:41	1°♓35'17	0°21'32
max. Earth dist.	9808 Feb 24 13:58	12°♓21'16	1.44153 AU
evening rise	9808 Mar 04 03:18	25°♓47'44	
	9808 Mar 06 21:06	0°♈	
	9808 Mar 27 15:25	0°♉	
evening max el	9808 Apr 03 00:17	7°♉29'49	21°02'21
asc. node	9808 Apr 09 00:06	11°♉58'00	
retrograde	9808 Apr 11 12:57	12°♉29'53	
evening set	9808 Apr 15 17:58	10°♉50'15	
inferior conj	9808 Apr 21 00:53	4°♉38'17	3°02'47
minimum elong	9808 Apr 20 23:17	4°♉43'50	3°02'20
min. Earth dist.	9808 Apr 21 10:47	4°♉03'56	0.68272 AU
	9808 Apr 24 14:19	30°℞♈	
morning rise	9808 Apr 26 04:22	28°♈22'58	
direct	9808 May 01 11:37	26°♈02'42	
	9808 May 09 13:35	0°♉	
morning max el	9808 May 12 01:52	2°♉21'35	23°31'54
desc. node	9808 May 13 02:51	3°♉26'18	
	9808 Jun 02 02:14	0°♊	
morning set	9808 Jun 16 03:52	22°♊25'24	
max. Earth dist.	9808 Jun 20 02:56	29°♊14'14	1.39061 AU
	9808 Jun 20 13:23	0°♋	
superior conj	9808 Jun 27 16:23	12°♋55'05	-1°13'55
minimum elong	9808 Jun 27 21:13	13°♋17'40	1°13'33
asc. node	9808 Jul 05 22:56	28°♋46'17	
evening rise	9808 Jul 06 23:16	0°♌44'28	
	9808 Jul 06 14:07	0°♌	
evening max el	9808 Jul 23 03:46	26°♌58'27	18°44'32
	9808 Jul 27 03:57	0°♍	
retrograde	9808 Jul 31 09:25	1°♍04'38	
evening set	9808 Aug 02 09:00	0°♍51'13	
	9808 Aug 04 20:23	30°℞♌	
desc. node	9808 Aug 09 01:56	27°♌26'53	
inferior conj	9808 Aug 10 09:55	26°♌28'58	-0°24'34
minimum elong	9808 Aug 10 08:55	26°♌30'48	0°24'26
min. Earth dist.	9808 Aug 13 13:57	24°♌10'04	0.57047 AU
morning rise	9808 Aug 18 05:26	21°♌24'44	
direct	9808 Aug 23 21:45	20°♌06'01	
morning max el	9808 Sep 07 04:48	27°♌33'21	26°27'50
	9808 Sep 09 14:03	0°♍	
	9808 Sep 29 12:19	0°♎	
asc. node	9808 Oct 01 23:01	4°♎46'16	
morning set	9808 Oct 06 03:08	13°♎23'26	
superior conj	9808 Oct 13 00:14	28°♎28'34	1°30'31
minimum elong	9808 Oct 12 22:29	28°♎18'54	1°30'31
max. Earth dist.	9808 Oct 13 13:28	29°♎42'04	1.31706 AU
	9808 Oct 13 16:42	0°♏	
evening rise	9808 Oct 19 21:45	13°♏30'00	
	9808 Oct 28 06:33	0°♐	
desc. node	9808 Nov 05 00:03	13°♐03'44	
	9808 Nov 17 22:17	0°♑	
evening max el	9808 Nov 20 01:58	2°♑08'39	27°10'01
retrograde	9808 Dec 03 23:16	9°♑19'58	
evening set	9808 Dec 10 22:41	7°♑10'48	
min. Earth dist.	9808 Dec 14 16:36	4°♑27'13	0.60874 AU
inferior conj	9808 Dec 17 19:17	1°♑47'15	-3°30'13
minimum elong	9808 Dec 18 02:06	1°♑32'35	3°27'32
	9808 Dec 19 22:47	30°℞♐	
morning rise	9808 Dec 25 08:01	26°♐55'13	
direct	9808 Dec 27 12:06	26°♐36'09	
asc. node	9808 Dec 28 22:47	26°♐44'54	
	9809 Jan 03 11:37	0°♑	
morning max el	9809 Jan 03 16:53	0°♑12'44	17°57'31
morning set	9809 Jan 19 07:57	24°♑48'15	
	9809 Jan 22 03:55	0°♒	

superior conj	9809 Jan 29	14:30	13°♒20'56	0°17'51
minimum elong	9809 Jan 29	16:00	13°♒27'29	0°17'56
desc. node	9809 Jan 31	23:18	17°♒27'16	
max. Earth dist.	9809 Feb 06	03:44	26°♒11'38	1.42494 AU
	9809 Feb 08	11:28	0°♓	
evening rise	9809 Feb 12	01:56	5°♓46'57	
	9809 Feb 28	03:40	0°♈	
evening max el	9809 Mar 16	18:44	21°♈13'25	22°18'15
retrograde	9809 Mar 26	10:05	26°♈55'40	
asc. node	9809 Mar 26	21:17	26°♈54'35	
evening set	9809 Mar 31	01:58	25°♈00'44	
inferior conj	9809 Apr 05	09:43	18°♈39'14	2°38'45
minimum elong	9809 Apr 05	07:36	18°♈46'34	2°38'09
min. Earth dist.	9809 Apr 05	06:55	18°♈48'57	0.68574 AU
morning rise	9809 Apr 10	13:07	12°♈28'51	
direct	9809 Apr 15	06:37	10°♈29'10	
morning max el	9809 Apr 24	13:55	15°♈55'45	22°03'23
desc. node	9809 Apr 29	23:45	22°♈03'23	
	9809 May 06	00:53	0°♉	
	9809 May 26	02:54	0°♊	
morning set	9809 May 27	13:27	2°♊18'23	
max. Earth dist.	9809 Jun 02	02:23	11°♊23'42	1.41305 AU
superior conj	9809 Jun 09	20:06	24°♊42'34	-1°43'43
minimum elong	9809 Jun 10	02:19	25°♊10'05	1°43'25
	9809 Jun 12	19:08	0°♋	
evening rise	9809 Jun 20	09:15	13°♋57'10	
asc. node	9809 Jun 22	19:56	18°♋28'46	
	9809 Jun 29	08:47	0°♌	
evening max el	9809 Jul 06	11:30	9°♌35'35	18°14'44
retrograde	9809 Jul 13	15:15	13°♌12'14	
evening set	9809 Jul 15	21:55	12°♌50'59	
inferior conj	9809 Jul 23	03:26	8°♌08'01	1°07'05
minimum elong	9809 Jul 23	05:32	8°♌03'30	1°06'02
min. Earth dist.	9809 Jul 26	12:10	5°♌15'25	0.59130 AU
desc. node	9809 Jul 26	23:05	4°♌53'24	
morning rise	9809 Jul 30	09:54	2°♌30'20	
direct	9809 Aug 05	17:13	0°♌41'41	
morning max el	9809 Aug 20	02:11	8°♌29'47	27°30'46
	9809 Sep 05	11:00	0°♍	
asc. node	9809 Sep 18	19:54	24°♍31'27	
morning set	9809 Sep 20	10:40	27°♍53'03	
	9809 Sep 21	10:38	0°♎	
superior conj	9809 Sep 27	11:59	13°♎15'20	1°17'19
minimum elong	9809 Sep 27	09:48	13°♎03'10	1°17'05
max. Earth dist.	9809 Sep 26	23:20	12°♎05'05	1.31515 AU
evening rise	9809 Oct 04	05:48	28°♎04'26	
	9809 Oct 05	03:32	0°♏	
	9809 Oct 21	18:29	0°♐	
desc. node	9809 Oct 22	21:13	1°♐36'30	
evening max el	9809 Nov 02	01:19	13°♐44'21	26°15'41
retrograde	9809 Nov 15	23:16	20°♐48'58	
evening set	9809 Nov 22	11:42	19°♐06'24	
min. Earth dist.	9809 Nov 26	14:24	16°♐31'48	0.58772 AU
inferior conj	9809 Nov 29	18:11	14°♐10'44	-4°39'06
minimum elong	9809 Nov 30	01:55	13°♐56'16	4°36'49
morning rise	9809 Dec 07	18:37	9°♐41'08	
direct	9809 Dec 09	23:25	9°♐24'43	
asc. node	9809 Dec 15	19:49	11°♐28'29	
morning max el	9809 Dec 18	02:00	13°♐22'24	18°27'43
	9809 Dec 29	07:59	0°♑	
morning set	9810 Jan 03	00:42	8°♑52'07	
superior conj	9810 Jan 12	01:09	25°♑59'48	0°50'23
minimum elong	9810 Jan 12	04:13	26°♑13'56	0°50'17
	9810 Jan 14	05:39	0°♒	

desc. node	9810 Jan 18	20:14	8°♒10'32	
max. Earth dist.	9810 Jan 19	12:40	9°♒21'39	1.40446 AU
evening rise	9810 Jan 23	20:18	16°♒39'45	
	9810 Feb 01	04:38	0°♓	
	9810 Feb 22	20:09	0°♈	
evening max el	9810 Feb 27	09:36	4°♈59'18	23°38'27
retrograde	9810 Mar 10	04:30	11°♈21'12	
asc. node	9810 Mar 13	18:28	10°♈19'46	
evening set	9810 Mar 15	08:05	9°♈12'02	
min. Earth dist.	9810 Mar 20	03:35	3°♈35'02	0.68440 AU
inferior conj	9810 Mar 20	18:25	2°♈44'18	2°05'22
minimum elong	9810 Mar 20	16:13	2°♈51'48	2°04'43
	9810 Mar 22	19:50	30°℞♓	
morning rise	9810 Mar 26	00:21	26°♓40'01	
direct	9810 Mar 30	04:22	25°♓02'27	
morning max el	9810 Apr 07	07:58	29°♓41'26	20°42'53
	9810 Apr 07	15:22	0°♈	
desc. node	9810 Apr 16	20:37	11°♈20'47	
	9810 Apr 29	16:24	0°♉	
morning set	9810 May 06	22:09	11°♉05'35	
max. Earth dist.	9810 May 15	08:19	24°♉26'38	1.43265 AU
	9810 May 18	18:02	0°♊	
superior conj	9810 May 22	01:18	5°♊29'20	-2°05'27
minimum elong	9810 May 22	06:10	5°♊49'45	2°05'32
evening rise	9810 Jun 03	03:55	26°♊26'15	
	9810 Jun 05	04:18	0°♋	
asc. node	9810 Jun 09	16:59	7°♋53'56	
evening max el	9810 Jun 19	23:56	22°♋40'04	18°04'39
retrograde	9810 Jun 26	13:08	26°♋02'23	
evening set	9810 Jun 29	03:31	25°♋30'10	
inferior conj	9810 Jul 05	16:26	20°♋27'36	2°12'13
minimum elong	9810 Jul 05	19:18	20°♋20'28	2°11'04
min. Earth dist.	9810 Jul 08	18:50	17°♋24'05	0.61393 AU
morning rise	9810 Jul 12	08:41	14°♋26'38	
desc. node	9810 Jul 13	20:14	13°♋32'29	
direct	9810 Jul 19	00:30	12°♋09'52	
morning max el	9810 Aug 02	06:19	20°♋10'37	27°56'16
	9810 Aug 10	16:27	0°♌	
	9810 Aug 29	09:57	0°♍	
morning set	9810 Sep 04	13:17	12°♍05'29	
asc. node	9810 Sep 05	16:46	14°♍28'03	
max. Earth dist.	9810 Sep 10	07:08	24°♍18'55	1.31804 AU
superior conj	9810 Sep 11	22:19	27°♍53'56	0°59'00
minimum elong	9810 Sep 11	20:09	27°♍41'59	0°58'35
	9810 Sep 12	21:11	0°♎	
evening rise	9810 Sep 18	16:31	12°♎43'29	
	9810 Sep 27	07:19	0°♏	
desc. node	9810 Oct 09	18:25	19°♏06'57	
evening max el	9810 Oct 14	16:26	24°♏29'12	24°52'35
	9810 Oct 22	08:53	0°♐	
retrograde	9810 Oct 28	12:22	1°♐26'28	
evening set	9810 Nov 03	01:11	0°♐17'36	
	9810 Nov 03	17:49	30°℞♏	
min. Earth dist.	9810 Nov 08	03:55	27°♏33'33	0.56833 AU
inferior conj	9810 Nov 10	21:03	25°♏47'50	-5°29'13
minimum elong	9810 Nov 11	02:02	25°♏39'43	5°28'20
morning rise	9810 Nov 19	05:09	21°♏40'35	
direct	9810 Nov 21	16:02	21°♏23'41	
morning max el	9810 Dec 01	01:20	25°♏52'21	19°19'37
asc. node	9810 Dec 02	16:50	27°♏34'44	
	9810 Dec 04	16:52	0°♐	
morning set	9810 Dec 18	02:05	23°♐18'09	
	9810 Dec 21	10:21	0°♑	
superior conj	9810 Dec 26	04:48	9°♑25'58	1°14'25

minimum elong	9810 Dec 26	07:50	9°♑40'40	1°14'26
max. Earth dist.	9811 Jan 01	18:21	21°♑48'18	1.38249 AU
evening rise	9811 Jan 05	12:13	28°♑28'53	
desc. node	9811 Jan 05	17:10	28°♑50'28	
	9811 Jan 06	09:12	0°♒	
	9811 Jan 25	14:39	0°♓	
evening max el	9811 Feb 09	22:56	18°♓47'36	24°56'41
retrograde	9811 Feb 21	19:01	25°♓40'51	
evening set	9811 Feb 27	10:48	23°♓19'32	
asc. node	9811 Feb 28	15:39	22°♓12'06	
min. Earth dist.	9811 Mar 03	22:37	18°♓17'13	0.67888 AU
inferior conj	9811 Mar 05	01:06	16°♓49'59	1°23'01
minimum elong	9811 Mar 04	23:19	16°♓55'52	1°22'29
morning rise	9811 Mar 10	12:07	10°♓53'08	
direct	9811 Mar 14	03:33	9°♓36'52	
morning max el	9811 Mar 21	09:44	13°♓38'43	19°35'23
	9811 Apr 02	23:07	0°♈	
greatest brilliancy	9811 Apr 03	02:14	0°♈11'26	-0.7m
desc. node	9811 Apr 03	17:27	1°♈07'34	
morning set	9811 Apr 15	20:35	19°♈30'56	
	9811 Apr 22	14:55	0°♉	
max. Earth dist.	9811 Apr 27	20:43	8°♉14'03	1.44712 AU
superior conj	9811 May 02	06:12	15°♉14'13	-2°12'40
minimum elong	9811 May 02	05:25	15°♉11'06	2°12'55
	9811 May 11	07:17	0°♊	
evening rise	9811 May 16	02:27	8°♊01'18	
asc. node	9811 May 27	14:04	26°♊55'44	
	9811 May 29	15:47	0°♋	
evening max el	9811 Jun 03	13:37	6°♋03'30	18°13'21
retrograde	9811 Jun 09	22:31	9°♋25'48	
evening set	9811 Jun 12	20:36	8°♋40'22	
inferior conj	9811 Jun 18	20:52	3°♋19'51	2°53'05
minimum elong	9811 Jun 18	23:07	3°♋13'33	2°52'18
min. Earth dist.	9811 Jun 21	10:44	0°♋27'51	0.63557 AU
	9811 Jun 21	21:12	30°℞♊	
morning rise	9811 Jun 25	00:10	27°♊06'02	
desc. node	9811 Jun 30	17:19	24°♊32'47	
direct	9811 Jul 01	17:25	24°♊29'27	
	9811 Jul 12	22:19	0°♋	
morning max el	9811 Jul 15	14:55	2°♋32'18	27°43'50
	9811 Aug 05	00:48	0°♌	
morning set	9811 Aug 19	08:44	25°♌54'40	
	9811 Aug 21	09:16	0°♍	
asc. node	9811 Aug 23	13:40	4°♍31'35	
max. Earth dist.	9811 Aug 24	08:58	6°♍13'12	1.32589 AU
superior conj	9811 Aug 27	05:23	12°♍19'05	0°35'53
minimum elong	9811 Aug 27	03:47	12°♍10'25	0°35'25
evening rise	9811 Sep 03	04:04	27°♍21'56	
	9811 Sep 04	09:51	0°♎	
	9811 Sep 21	21:11	0°♏	
evening max el	9811 Sep 26	03:19	4°♏42'07	23°13'50
desc. node	9811 Sep 26	15:36	5°♏11'24	
retrograde	9811 Oct 09	12:48	11°♏22'59	
evening set	9811 Oct 13	15:12	10°♏46'22	
min. Earth dist.	9811 Oct 20	12:50	7°♏34'32	0.55368 AU
inferior conj	9811 Oct 22	04:13	6°♏37'08	-5°40'31
minimum elong	9811 Oct 22	01:58	6°♏40'26	5°40'12
morning rise	9811 Oct 30	14:36	2°♏46'05	
direct	9811 Nov 02	13:47	2°♏25'02	
morning max el	9811 Nov 13	11:46	7°♏33'40	20°34'08
asc. node	9811 Nov 19	13:48	14°♏48'09	
	9811 Nov 28	10:08	0°♐	
morning set	9811 Dec 02	09:06	7°♐58'04	
superior conj	9811 Dec 09	20:54	23°♐26'37	1°30'14
minimum elong	9811 Dec 09	23:02	23°♐37'26	1°30'26
	9811 Dec 13	03:21	0°♑	
max. Earth dist.	9811 Dec 15	01:54	3°♑47'14	1.36156 AU
evening rise	9811 Dec 18	23:26	11°♑08'19	
desc. node	9811 Dec 23	14:08	19°♑23'10	
	9811 Dec 29	22:59	0°♒	
	9812 Jan 20	23:29	0°♓	
evening max el	9812 Jan 23	12:17	2°♓35'43	26°05'44
retrograde	9812 Feb 05	04:32	9°♓48'20	
evening set	9812 Feb 11	08:23	7°♓18'08	
min. Earth dist.	9812 Feb 15	13:43	2°♓50'25	0.66949 AU
asc. node	9812 Feb 15	12:50	2°♓53'07	
inferior conj	9812 Feb 17	03:51	0°♓52'07	0°31'50
minimum elong	9812 Feb 17	03:02	0°♓54'39	0°31'44
	9812 Feb 17	20:43	30°℞♒	
morning rise	9812 Feb 22	22:22	25°♒04'34	
direct	9812 Feb 26	02:35	24°♒07'08	
morning max el	9812 Mar 03	18:49	27°♒44'04	18°43'24
	9812 Mar 05	21:11	0°♓	
desc. node	9812 Mar 20	14:16	21°♓15'25	
morning set	9812 Mar 25	08:31	28°♓42'01	
	9812 Mar 26	04:27	0°♈	
max. Earth dist.	9812 Apr 09	14:09	22°♈32'00	1.45497 AU
superior conj	9812 Apr 10	16:11	24°♈13'57	-2°00'12
minimum elong	9812 Apr 10	08:26	23°♈43'36	1°59'51
	9812 Apr 14	08:19	0°♉	
evening rise	9812 Apr 26	01:16	18°♉36'09	
greatest brilliancy	9812 May 03	04:05	0°♊01'02	-0.9m
	9812 May 03	03:50	0°♊	
asc. node	9812 May 13	11:10	15°♊25'33	
evening max el	9812 May 17	01:36	19°♊37'34	18°40'07
retrograde	9812 May 23	15:18	23°♊13'13	
evening set	9812 May 26	21:15	22°♊13'09	
inferior conj	9812 Jun 01	12:41	16°♊36'04	3°14'12
minimum elong	9812 Jun 01	13:46	16°♊32'44	3°13'44
min. Earth dist.	9812 Jun 03	11:33	14°♊12'52	0.65426 AU
morning rise	9812 Jun 07	05:31	10°♊17'00	
direct	9812 Jun 13	17:55	7°♊32'09	
desc. node	9812 Jun 16	14:21	7°♊59'32	
morning max el	9812 Jun 27	01:19	15°♊24'12	26°58'32
	9812 Jul 09	00:29	0°♋	
	9812 Jul 27	19:27	0°♌	
morning set	9812 Aug 01	18:05	9°♌12'10	
max. Earth dist.	9812 Aug 06	01:34	17°♌41'48	1.33876 AU
asc. node	9812 Aug 09	10:33	24°♌37'23	
superior conj	9812 Aug 10	06:58	26°♌24'07	0°08'28
minimum elong	9812 Aug 10	06:32	26°♌21'50	0°08'08
behind sun begin	9812 Aug 10	01:36	25°♌56'02	
behind sun end	9812 Aug 10	11:28	26°♌47'41	
	9812 Aug 11	23:56	0°♍	
evening rise	9812 Aug 17	14:29	11°♍53'51	
	9812 Aug 26	21:10	0°♎	
evening max el	9812 Sep 06	18:30	14°♎57'03	21°36'27
desc. node	9812 Sep 12	12:48	19°♎20'11	
retrograde	9812 Sep 19	02:27	21°♎04'25	
evening set	9812 Sep 21	19:41	20°♎47'40	
inferior conj	9812 Sep 30	22:12	16°♎50'31	-4°56'33
minimum elong	9812 Sep 30	13:15	17°♎03'02	4°54'33
min. Earth dist.	9812 Sep 30	20:25	16°♎53'00	0.54667 AU
morning rise	9812 Oct 09	07:51	13°♎01'25	
direct	9812 Oct 12	23:30	12°♎32'25	
morning max el	9812 Oct 25	09:04	18°♎25'24	22°09'02
	9812 Nov 03	15:26	0°♏	
asc. node	9812 Nov 05	10:44	2°♏53'48	
morning set	9812 Nov 15	19:27	22°♏45'31	

	9812 Nov 19 05:14	0°♐	
superior conj	9812 Nov 22 21:47	7°♐51'22	1°38'34
minimum elong	9812 Nov 22 22:42	7°♐56'10	1°38'53
max. Earth dist.	9812 Nov 26 16:09	15°♐41'15	1.34355 AU
evening rise	9812 Dec 01 02:13	24°♐28'34	
	9812 Dec 04 00:12	0°♑	
desc. node	9812 Dec 09 11:09	9°♑44'09	
	9812 Dec 22 12:03	0°♒	
evening max el	9813 Jan 05 01:50	16°♒16'24	26°58'08
retrograde	9813 Jan 18 08:14	23°♒37'09	
evening set	9813 Jan 24 22:56	21°♒02'44	
min. Earth dist.	9813 Jan 28 22:37	17°♒09'08	0.65643 AU
inferior conj	9813 Jan 31 00:28	14°♒46'20	-0°27'49
minimum elong	9813 Jan 31 01:16	14°♒44'03	0°27'11
asc. node	9813 Feb 01 09:58	13°♒11'59	
morning rise	9813 Feb 06 04:50	9°♒10'33	
direct	9813 Feb 08 23:28	8°♒28'37	
morning max el	9813 Feb 15 09:26	11°♒52'26	18°08'03
	9813 Feb 28 06:38	0°♓	
morning set	9813 Mar 06 00:34	9°♓18'47	
desc. node	9813 Mar 07 11:04	11°♓38'46	
	9813 Mar 18 22:12	0°♈	
superior conj	9813 Mar 20 22:56	3°♈12'06	-1°28'55
minimum elong	9813 Mar 20 13:40	2°♈35'38	1°27'54
max. Earth dist.	9813 Mar 23 10:12	7°♈04'43	1.45545 AU
evening rise	9813 Apr 06 02:02	28°♈20'33	
	9813 Apr 07 03:41	0°♉	
greatest brilliancy	9813 Apr 18 12:07	17°♉25'58	-0.7m
	9813 Apr 27 11:43	0°♊	
asc. node	9813 Apr 30 08:18	3°♊13'29	
evening max el	9813 Apr 30 09:38	3°♊16'52	19°23'51
retrograde	9813 May 07 12:21	7°♊18'10	
evening set	9813 May 11 02:35	6°♊02'47	
inferior conj	9813 May 16 12:32	0°♊10'32	3°19'34
minimum elong	9813 May 16 12:25	0°♊10'57	3°19'14
	9813 May 16 15:45	30°℞♉	
min. Earth dist.	9813 May 17 20:16	28°♉26'40	0.66885 AU
morning rise	9813 May 21 21:52	23°♉50'50	
direct	9813 May 28 00:49	21°♉09'01	
desc. node	9813 Jun 03 11:20	23°♉28'05	
morning max el	9813 Jun 09 11:38	28°♉35'51	25°48'34
	9813 Jun 10 19:53	0°♊	
	9813 Jul 02 19:04	0°♋	
morning set	9813 Jul 15 13:37	21°♋48'32	
max. Earth dist.	9813 Jul 19 07:48	28°♋50'33	1.35633 AU
	9813 Jul 19 22:18	0°♌	
superior conj	9813 Jul 25 00:27	10°♌02'14	-0°22'25
minimum elong	9813 Jul 25 01:48	10°♌09'04	0°22'28
asc. node	9813 Jul 27 07:27	14°♌41'53	
evening rise	9813 Aug 01 21:45	26°♌13'36	
	9813 Aug 03 18:12	0°♍	
evening max el	9813 Aug 19 21:24	25°♍45'18	20°13'32
	9813 Aug 25 18:16	0°♎	
desc. node	9813 Aug 30 10:01	1°♎04'52	
retrograde	9813 Aug 30 15:18	1°♎05'00	
evening set	9813 Sep 01 14:24	0°♎55'07	
	9813 Sep 04 19:38	30°℞♍	
inferior conj	9813 Sep 10 16:17	26°♍56'48	-3°22'26
minimum elong	9813 Sep 10 07:29	27°♍09'47	3°19'30
min. Earth dist.	9813 Sep 12 05:36	26°♍01'43	0.54903 AU
morning rise	9813 Sep 18 23:40	22°♍48'48	
direct	9813 Sep 23 09:26	22°♍06'54	
morning max el	9813 Oct 06 22:04	28°♍42'38	23°55'27
	9813 Oct 08 05:40	0°♎	
asc. node	9813 Oct 23 07:38	21°♎38'48	
	9813 Oct 27 15:43	0°♏	
morning set	9813 Oct 31 07:10	7°♏34'15	
superior conj	9813 Nov 07 04:30	22°♏30'59	1°40'10
minimum elong	9813 Nov 07 04:13	22°♏29'21	1°40'28
max. Earth dist.	9813 Nov 09 14:30	27°♏43'24	1.32960 AU
	9813 Nov 10 16:12	0°♐	
evening rise	9813 Nov 14 16:53	8°♐19'24	
desc. node	9813 Nov 26 08:13	29°♐46'52	
	9813 Nov 26 11:21	0°♑	
evening max el	9813 Dec 18 14:14	29°♑37'13	27°26'50
	9813 Dec 18 23:54	0°♒	
retrograde	9814 Jan 01 05:27	6°♒58'11	
evening set	9814 Jan 08 04:05	4°♒26'11	
min. Earth dist.	9814 Jan 11 23:06	1°♒04'43	0.63997 AU
	9814 Jan 13 00:20	30°℞♑	
inferior conj	9814 Jan 14 12:25	28°♑25'40	-1°35'07
minimum elong	9814 Jan 14 15:25	28°♑17'52	1°33'32
asc. node	9814 Jan 19 07:05	24°♑06'31	
morning rise	9814 Jan 21 04:37	23°♑04'37	
direct	9814 Jan 23 15:32	22°♑34'31	
morning max el	9814 Jan 30 02:46	25°♑55'49	17°49'47
	9814 Feb 02 14:14	0°♒	
morning set	9814 Feb 15 20:36	21°♒17'02	
	9814 Feb 21 00:14	0°♓	
desc. node	9814 Feb 22 07:53	2°♓12'24	
superior conj	9814 Feb 28 20:38	12°♓56'53	-0°47'02
minimum elong	9814 Feb 28 15:29	12°♓35'57	0°46'09
max. Earth dist.	9814 Mar 06 05:26	21°♓32'37	1.44853 AU
	9814 Mar 11 14:45	0°♈	
evening rise	9814 Mar 16 14:11	7°♈41'08	
	9814 Mar 31 11:08	0°♉	
evening max el	9814 Apr 13 12:15	16°♉57'34	20°22'47
asc. node	9814 Apr 17 05:27	20°♉06'33	
retrograde	9814 Apr 21 11:01	21°♉34'41	
evening set	9814 Apr 25 10:21	20°♉03'46	
inferior conj	9814 Apr 30 17:40	13°♉58'11	3°12'07
minimum elong	9814 Apr 30 16:31	14°♉02'07	3°11'45
min. Earth dist.	9814 May 01 11:11	12°♉58'16	0.67890 AU
morning rise	9814 May 05 22:26	7°♉40'38	
direct	9814 May 11 13:10	5°♉10'47	
desc. node	9814 May 21 08:16	10°♉28'17	
morning max el	9814 May 22 21:11	11°♉58'09	24°23'40
	9814 Jun 06 07:58	0°♊	
	9814 Jun 25 13:31	0°♋	
morning set	9814 Jun 27 14:38	3°♋31'43	
max. Earth dist.	9814 Jul 01 06:14	9°♋59'57	1.37747 AU
superior conj	9814 Jul 08 06:34	23°♋05'18	-0°55'10
minimum elong	9814 Jul 08 10:08	23°♋22'30	0°54'54
	9814 Jul 11 19:37	0°♌	
asc. node	9814 Jul 14 04:24	4°♌41'21	
evening rise	9814 Jul 16 23:21	10°♌14'20	
	9814 Jul 27 19:31	0°♍	
evening max el	9814 Aug 02 13:52	7°♍20'00	19°10'58
retrograde	9814 Aug 11 15:51	11°♍50'38	
evening set	9814 Aug 13 12:29	11°♍40'04	
desc. node	9814 Aug 17 07:13	10°♍20'29	
inferior conj	9814 Aug 22 00:23	7°♍28'42	-1°27'39
minimum elong	9814 Aug 21 20:32	7°♍35'11	1°26'20
min. Earth dist.	9814 Aug 24 18:44	5°♍37'27	0.56046 AU
morning rise	9814 Aug 30 01:37	2°♍45'46	
direct	9814 Sep 04 06:50	1°♍42'52	
morning max el	9814 Sep 18 10:30	8°♍54'49	25°37'40
	9814 Oct 04 05:04	0°♎	

asc. node	9814 Oct 10	04:31	10°♎53'15		
morning set	9814 Oct 15	18:36	22°♎19'34		
	9814 Oct 19	07:22	0°♏		
superior conj	9814 Oct 22	14:46	7°♏18'34	1°35'41	
minimum elong	9814 Oct 22	13:28	7°♏11'22	1°35'49	
max. Earth dist.	9814 Oct 23	19:38	9°♏57'37	1.32026 AU	
evening rise	9814 Oct 29	16:22	22°♏32'57		
	9814 Nov 02	08:46	0°♐		
desc. node	9814 Nov 13	05:21	19°♐23'35		
	9814 Nov 20	08:20	0°♑		
evening max el	9814 Nov 30	23:33	12°♑25'54	27°25'40	
retrograde	9814 Dec 14	19:40	19°♑42'08		
evening set	9814 Dec 21	20:53	17°♑21'29		
min. Earth dist.	9814 Dec 25	13:38	14°♑26'47	0.62070 AU	
inferior conj	9814 Dec 28	12:41	11°♑42'47	-2°47'47	
minimum elong	9814 Dec 28	18:13	11°♑30'00	2°45'19	
morning rise	9815 Jan 04	17:58	6°♑39'30		
asc. node	9815 Jan 06	04:09	6°♑20'27		
direct	9815 Jan 06	23:31	6°♑17'32		
morning max el	9815 Jan 13	19:43	9°♑46'00	17°49'16	
	9815 Jan 27	04:50	0°♒		
morning set	9815 Jan 29	14:44	4°♒18'05		
desc. node	9815 Feb 09	04:45	22°♒52'33		
superior conj	9815 Feb 09	18:50	23°♒52'29	-0°04'26	
minimum elong	9815 Feb 09	18:27	23°♒50'48	0°04'06	
behind sun begin	9815 Feb 09	09:57	23°♒14'44		
behind sun end	9815 Feb 10	02:56	24°♒26'49		
	9815 Feb 13	10:29	0°♓		
max. Earth dist.	9815 Feb 16	21:13	5°♓38'59	1.43507 AU	
evening rise	9815 Feb 24	04:56	17°♓16'21		
	9815 Mar 04	13:18	0°♈		
	9815 Mar 26	18:05	0°♉		
evening max el	9815 Mar 27	09:19	0°♉39'14	21°33'47	
asc. node	9815 Apr 04	02:37	5°♉49'44		
retrograde	9815 Apr 05	09:16	5°♉57'51		
evening set	9815 Apr 09	18:43	4°♉11'41		
	9815 Apr 13	13:21	30°℞♈		
inferior conj	9815 Apr 15	01:43	27°♈55'04	2°53'47	
minimum elong	9815 Apr 14	23:52	28°♈01'34	2°53'16	
min. Earth dist.	9815 Apr 15	06:07	27°♈39'44	0.68447 AU	
morning rise	9815 Apr 20	04:49	21°♈41'28		
direct	9815 Apr 25	06:08	19°♈29'40		
morning max el	9815 May 05	07:22	25°♈27'05	22°53'41	
desc. node	9815 May 08	05:11	28°♈35'14		
	9815 May 09	10:19	0°♉		
	9815 May 30	19:54	0°♊		
morning set	9815 Jun 08	15:41	14°♊07'08		
max. Earth dist.	9815 Jun 13	02:50	21°♊38'08	1.40021 AU	
	9815 Jun 17	21:39	0°♋		
superior conj	9815 Jun 20	21:12	5°♋22'50	-1°27'11	
minimum elong	9815 Jun 21	02:49	5°♋48'29	1°26'49	
evening rise	9815 Jun 30	16:06	23°♋46'44		
asc. node	9815 Jul 01	01:24	24°♋30'59		
	9815 Jul 03	23:00	0°♌		
evening max el	9815 Jul 16	17:13	19°♌36'53	18°29'30	
retrograde	9815 Jul 24	10:36	23°♌28'40		
evening set	9815 Jul 26	12:52	23°♌12'29		
inferior conj	9815 Aug 03	05:25	18°♌41'51	0°17'23	
minimum elong	9815 Aug 03	06:03	18°♌40'36	0°16'51	
desc. node	9815 Aug 04	04:24	17°♌56'20		
min. Earth dist.	9815 Aug 06	13:16	16°♌05'45	0.57883 AU	
morning rise	9815 Aug 10	19:40	13°♌22'08		
direct	9815 Aug 16	19:04	11°♌50'37		
morning max el	9815 Aug 31	03:47	19°♌28'46	26°58'45	
	9815 Sep 09	02:39	0°♍		
	9815 Sep 26	19:44	0°♎		
asc. node	9815 Sep 27	01:24	0°♎28'43		
morning set	9815 Sep 30	04:02	6°♎55'52		
superior conj	9815 Oct 07	02:30	22°♎07'04	1°25'35	
minimum elong	9815 Oct 07	00:31	21°♎56'03	1°25'28	
max. Earth dist.	9815 Oct 07	04:37	22°♎18'48	1.31565 AU	
	9815 Oct 10	15:56	0°♏		
evening rise	9815 Oct 13	21:55	7°♏01'20		
	9815 Oct 25	20:56	0°♐		
desc. node	9815 Oct 31	02:31	8°♐23'22		
evening max el	9815 Nov 13	03:17	24°♐30'40	26°50'53	
	9815 Nov 20	15:07	0°♑		
retrograde	9815 Nov 27	01:32	1°♑39'41		
	9815 Dec 03	07:18	30°℞♐		
evening set	9815 Dec 03	21:24	29°♐40'46		
min. Earth dist.	9815 Dec 07	17:40	27°♐02'42	0.59976 AU	
inferior conj	9815 Dec 10	21:51	24°♐28'36	-4°00'43	
minimum elong	9815 Dec 11	05:21	24°♐13'22	3°58'03	
morning rise	9815 Dec 18	15:55	19°♐45'52		
direct	9815 Dec 20	19:32	19°♐28'28		
asc. node	9815 Dec 24	01:12	20°♐09'50		
morning max el	9815 Dec 28	08:46	23°♐13'14	18°07'46	
	9816 Jan 02	17:45	0°♑		
morning set	9816 Jan 13	00:44	18°♑03'28		
	9816 Jan 19	10:39	0°♒		
superior conj	9816 Jan 22	17:23	5°♒57'02	0°32'40	
minimum elong	9816 Jan 22	19:48	6°♒07'49	0°32'37	
desc. node	9816 Jan 27	01:40	13°♒35'47		
max. Earth dist.	9816 Jan 30	08:25	19°♒11'20	1.41657 AU	
evening rise	9816 Feb 04	11:24	27°♒37'26		
	9816 Feb 05	22:58	0°♓		
	9816 Feb 26	05:27	0°♈		
evening max el	9816 Mar 09	02:02	14°♈23'56	22°52'16	
retrograde	9816 Mar 19	05:25	20°♈23'58		
asc. node	9816 Mar 20	23:47	20°♈08'42		
evening set	9816 Mar 24	02:05	18°♈23'04		
inferior conj	9816 Mar 29	10:44	11°♈58'30	2°25'42	
minimum elong	9816 Mar 29	08:33	12°♈06'07	2°25'05	
min. Earth dist.	9816 Mar 29	02:51	12°♈25'50	0.68565 AU	
morning rise	9816 Apr 03	14:53	5°♈50'18		
direct	9816 Apr 08	02:36	3°♈59'47		
morning max el	9816 Apr 16	21:29	9°♈05'24	21°27'44	
desc. node	9816 Apr 24	02:04	17°♈31'03		
	9816 May 03	02:25	0°♉		
morning set	9816 May 18	13:50	23°♉29'07		
	9816 May 22	15:27	0°♊		
max. Earth dist.	9816 May 25	04:20	4°♊08'38	1.42186 AU	
superior conj	9816 Jun 01	15:51	16°♊45'32	-1°54'17	
minimum elong	9816 Jun 01	21:57	17°♊11'56	1°54'09	
	9816 Jun 09	03:33	0°♋		
evening rise	9816 Jun 12	20:08	6°♋41'46		
asc. node	9816 Jun 16	22:26	14°♋06'32		
	9816 Jun 26	22:45	0°♌		
evening max el	9816 Jun 29	03:28	2°♌26'54	18°08'11	
retrograde	9816 Jul 05	23:32	5°♌55'13		
evening set	9816 Jul 08	09:35	5°♌29'33		
inferior conj	9816 Jul 15	07:36	0°♌38'16	1°37'52	
minimum elong	9816 Jul 15	10:16	0°♌32'10	1°36'41	
	9816 Jul 16	00:13	30°℞♋		
min. Earth dist.	9816 Jul 18	14:49	27°♋38'06	0.60091 AU	
desc. node	9816 Jul 21	01:32	25°♋40'38		
morning rise	9816 Jul 22	08:02	24°♋49'38		
direct	9816 Jul 28	20:06	22°♋48'05		

	9816 Aug 11	10:27	0°♌	
morning max el	9816 Aug 12	03:54	0°♌42'22	27°46'18
	9816 Sep 02	06:44	0°♍	
asc. node	9816 Sep 12	22:18	20°♍19'01	
morning set	9816 Sep 13	09:42	21°♍18'16	
	9816 Sep 17	11:18	0°♎	
max. Earth dist.	9816 Sep 19	13:57	4°♎38'16	1.31580 AU
superior conj	9816 Sep 20	13:53	6°♎50'47	1°10'11
minimum elong	9816 Sep 20	11:38	6°♎38'21	1°09'50
evening rise	9816 Sep 27	07:20	21°♎38'15	
	9816 Oct 01	07:34	0°♏	
desc. node	9816 Oct 16	23:41	26°♏31'49	
	9816 Oct 19	16:31	0°♐	
evening max el	9816 Oct 24	23:17	5°♐44'34	25°43'19
retrograde	9816 Nov 07	20:59	12°♐45'47	
evening set	9816 Nov 14	00:50	11°♐17'28	
min. Earth dist.	9816 Nov 18	11:47	8°♐40'58	0.57912 AU
inferior conj	9816 Nov 21	12:30	6°♐33'22	-5°03'45
minimum elong	9816 Nov 21	19:39	6°♐20'46	5°02'01
morning rise	9816 Nov 29	16:47	2°♐13'05	
direct	9816 Dec 01	23:27	1°♐56'49	
asc. node	9816 Dec 09	22:15	5°♐29'59	
morning max el	9816 Dec 10	14:06	6°♐06'49	18°46'57
	9816 Dec 25	17:15	0°♑	
morning set	9816 Dec 26	21:36	2°♑18'06	
superior conj	9817 Jan 04	11:50	18°♑57'19	1°01'37
minimum elong	9817 Jan 04	15:02	19°♑12'25	1°01'33
	9817 Jan 10	12:03	0°♒	
max. Earth dist.	9817 Jan 11	15:45	2°♒02'55	1.39519 AU
desc. node	9817 Jan 12	22:35	4°♒17'54	
evening rise	9817 Jan 15	15:04	8°♒54'47	
	9817 Jan 28	21:33	0°♓	
evening max el	9817 Feb 19	16:13	28°♓11'40	24°12'26
	9817 Feb 21	14:07	0°♈	
retrograde	9817 Mar 02	22:09	4°♈47'28	
asc. node	9817 Mar 07	20:58	2°♈53'22	
evening set	9817 Mar 08	06:55	2°♈33'01	
	9817 Mar 10	18:16	30°℞♓	
min. Earth dist.	9817 Mar 12	23:03	27°♓10'48	0.68260 AU
inferior conj	9817 Mar 13	18:48	26°♓04'11	1°48'29
minimum elong	9817 Mar 13	16:43	26°♓11'13	1°47'52
morning rise	9817 Mar 19	02:35	20°♓02'52	
direct	9817 Mar 23	01:13	18°♓34'22	
morning max el	9817 Mar 30	18:36	22°♓55'38	20°12'21
	9817 Apr 05	19:43	0°♈	
desc. node	9817 Apr 10	22:54	7°♈01'53	
	9817 Apr 26	08:37	0°♉	
morning set	9817 Apr 27	15:25	1°♉58'36	
max. Earth dist.	9817 May 07	13:30	17°♉33'13	1.43962 AU
superior conj	9817 May 13	10:36	27°♉05'06	-2°10'40
minimum elong	9817 May 13	13:35	27°♉17'21	2°10'54
	9817 May 15	04:59	0°♊	
evening rise	9817 May 26	06:43	18°♊48'22	
	9817 Jun 01	18:55	0°♋	
asc. node	9817 Jun 03	19:28	3°♋22'08	
evening max el	9817 Jun 12	16:48	15°♋39'55	18°06'05
retrograde	9817 Jun 19	02:48	19°♋00'18	
evening set	9817 Jun 21	20:36	18°♋22'31	
inferior conj	9817 Jun 28	03:36	13°♋11'53	2°32'16
minimum elong	9817 Jun 28	06:20	13°♋04'45	2°31'15
min. Earth dist.	9817 Jul 01	01:04	10°♋11'05	0.62343 AU
morning rise	9817 Jul 04	14:07	7°♋04'34	
desc. node	9817 Jul 07	22:38	5°♋14'31	
direct	9817 Jul 11	07:26	4°♋38'22	
morning max el	9817 Jul 25	10:07	12°♋40'26	27°55'32
	9817 Aug 08	05:11	0°♌	
	9817 Aug 25	17:15	0°♍	
morning set	9817 Aug 28	09:34	5°♍21'11	
asc. node	9817 Aug 30	19:12	10°♍18'53	
max. Earth dist.	9817 Sep 02	19:48	16°♍45'23	1.32076 AU
superior conj	9817 Sep 04	23:03	21°♍24'03	0°49'46
minimum elong	9817 Sep 04	21:03	21°♍13'05	0°49'18
	9817 Sep 08	21:04	0°♎	
evening rise	9817 Sep 11	18:38	6°♎17'43	
	9817 Sep 24	02:50	0°♏	
desc. node	9817 Oct 03	20:52	13°♏29'05	
evening max el	9817 Oct 06	11:55	16°♏12'59	24°11'35
retrograde	9817 Oct 20	04:25	23°♏04'21	
evening set	9817 Oct 25	03:48	22°♏09'57	
min. Earth dist.	9817 Oct 30	22:36	19°♏16'29	0.56135 AU
inferior conj	9817 Nov 02	06:44	17°♏50'09	-5°39'59
minimum elong	9817 Nov 02	09:03	17°♏46'33	5°39'36
morning rise	9817 Nov 10	16:23	13°♏51'06	
direct	9817 Nov 13	08:05	13°♏32'43	
morning max el	9817 Nov 23	08:10	18°♏17'01	19°48'33
asc. node	9817 Nov 26	19:15	22°♏06'59	
	9817 Dec 02	03:32	0°♐	
morning set	9817 Dec 11	01:46	16°♐51'48	
	9817 Dec 17	13:13	0°♑	
superior conj	9817 Dec 18	21:21	2°♑40'15	1°22'04
minimum elong	9817 Dec 19	00:03	2°♑53'42	1°22'11
max. Earth dist.	9817 Dec 24	22:10	14°♑18'11	1.37338 AU
evening rise	9817 Dec 28	15:39	21°♑06'47	
desc. node	9817 Dec 30	19:32	24°♑55'35	
	9818 Jan 02	18:41	0°♒	
	9818 Jan 22	20:41	0°♓	
evening max el	9818 Feb 02	05:29	12°♓00'47	25°27'28
retrograde	9818 Feb 14	10:29	19°♓03'07	
evening set	9818 Feb 20	07:39	16°♓37'22	
asc. node	9818 Feb 22	18:08	14°♓11'15	
min. Earth dist.	9818 Feb 24	16:34	11°♓50'04	0.67548 AU
inferior conj	9818 Feb 26	00:03	10°♓08'50	1°02'23
minimum elong	9818 Feb 25	22:36	10°♓13'30	1°01'59
morning rise	9818 Mar 03	13:59	4°♓15'55	
direct	9818 Mar 07	00:31	3°♓08'00	
morning max el	9818 Mar 13	23:42	6°♓57'18	19°11'16
greatest brilliancy	9818 Mar 27	01:59	24°♓21'01	-0.7m
desc. node	9818 Mar 28	19:44	26°♓58'23	
	9818 Mar 30	19:29	0°♈	
morning set	9818 Apr 06	16:51	10°♈35'58	
	9818 Apr 19	04:02	0°♉	
max. Earth dist.	9818 Apr 20	04:50	1°♉37'24	1.45141 AU
superior conj	9818 Apr 23	06:03	6°♉26'23	-2°09'55
minimum elong	9818 Apr 23	02:04	6°♉10'35	2°10'00
evening rise	9818 May 07	19:24	29°♉57'58	
	9818 May 07	19:53	0°♊	
asc. node	9818 May 21	16:32	22°♊11'09	
evening max el	9818 May 27	06:00	29°♊08'04	18°22'31
	9818 May 28	04:04	0°♋	
retrograde	9818 Jun 02	15:55	2°♋34'42	
evening set	9818 Jun 05	17:18	1°♋43'08	
	9818 Jun 08	01:06	30°℞♊	
inferior conj	9818 Jun 11	13:19	26°♊15'04	3°04'14
minimum elong	9818 Jun 11	15:07	26°♊09'51	3°03'35
min. Earth dist.	9818 Jun 13	20:48	23°♊33'49	0.64395 AU
morning rise	9818 Jun 17	11:48	19°♊58'06	
direct	9818 Jun 24	03:29	17°♊16'52	
desc. node	9818 Jun 24	19:41	17°♊18'23	

morning max el	9818 Jul 07 20:00	25°♊16'52	27°28'15
	9818 Jul 12 03:22	0°♋	
	9818 Aug 01 17:09	0°♌	
morning set	9818 Aug 12 01:05	18°♌57'35	
max. Earth dist.	9818 Aug 16 18:14	28°♌29'38	1.33072 AU
	9818 Aug 17 11:34	0°♍	
asc. node	9818 Aug 17 16:04	0°♍23'31	
superior conj	9818 Aug 20 04:02	5°♍40'49	0°24'44
minimum elong	9818 Aug 20 02:50	5°♍34'28	0°24'18
evening rise	9818 Aug 27 05:55	20°♍53'45	
	9818 Aug 31 15:38	0°♎	
evening max el	9818 Sep 17 23:12	26°♎20'55	22°31'20
desc. node	9818 Sep 20 18:04	28°♎47'59	
	9818 Sep 22 10:03	0°♏	
retrograde	9818 Sep 30 23:52	2°♏50'37	
evening set	9818 Oct 04 11:08	2°♏24'07	
	9818 Oct 10 07:45	30°℞♎	
min. Earth dist.	9818 Oct 12 06:20	28°♎55'51	0.54955 AU
inferior conj	9818 Oct 13 06:57	28°♎20'58	-5°29'03
minimum elong	9818 Oct 13 01:18	28°♎28'58	5°28'13
morning rise	9818 Oct 21 17:16	24°♎33'27	
direct	9818 Oct 24 22:57	24°♎09'41	
morning max el	9818 Nov 05 12:50	29°♎36'36	21°12'29
	9818 Nov 05 22:39	0°♏	
asc. node	9818 Nov 13 16:13	9°♏44'03	
	9818 Nov 24 15:59	0°♐	
morning set	9818 Nov 25 10:27	1°♐35'39	
superior conj	9818 Dec 02 17:37	16°♐52'32	1°34'37
minimum elong	9818 Dec 02 19:14	17°♐00'57	1°34'54
max. Earth dist.	9818 Dec 07 08:01	26°♐12'00	1.35341 AU
	9818 Dec 09 06:38	0°♑	
evening rise	9818 Dec 11 09:56	4°♑04'31	
desc. node	9818 Dec 17 16:32	15°♑23'52	
	9818 Dec 26 15:56	0°♒	
evening max el	9819 Jan 15 18:44	25°♒46'06	26°30'19
	9819 Jan 20 19:07	0°♓	
retrograde	9819 Jan 28 17:44	3°♓03'58	
evening set	9819 Feb 04 02:31	0°♓30'58	
	9819 Feb 04 17:06	30°℞♒	
min. Earth dist.	9819 Feb 08 05:13	26°♒18'05	0.66443 AU
asc. node	9819 Feb 09 15:17	24°♒35'52	
inferior conj	9819 Feb 10 00:28	24°♒08'08	0°07'34
minimum elong	9819 Feb 10 00:15	24°♒08'46	0°07'43
transit middle	9819 Feb 10 00:15	24°♒08'46	0°07'43
transit begin	9819 Feb 09 21:43	24°♒16'26	
transit end	9819 Feb 10 02:48	24°♒01'06	
morning rise	9819 Feb 15 22:56	18°♒25'32	
direct	9819 Feb 18 22:48	17°♒35'18	
morning max el	9819 Feb 25 11:32	21°♒05'18	18°26'16
	9819 Mar 04 13:29	0°♓	
desc. node	9819 Mar 15 16:33	17°♓13'30	
morning set	9819 Mar 17 15:57	20°♓21'38	
	9819 Mar 23 18:03	0°♈	
superior conj	9819 Apr 02 12:21	15°♈19'27	-1°48'51
minimum elong	9819 Apr 02 03:04	14°♈43'07	1°48'10
max. Earth dist.	9819 Apr 02 23:26	16°♈02'49	1.45608 AU
	9819 Apr 11 21:22	0°♉	
evening rise	9819 Apr 18 08:15	10°♉09'31	
greatest brilliancy	9819 Apr 27 23:32	25°♉18'56	-0.8m
	9819 May 01 00:55	0°♊	
asc. node	9819 May 08 13:38	10°♊24'46	
evening max el	9819 May 10 16:28	12°♊44'55	18°56'42
retrograde	9819 May 17 10:58	16°♊30'31	
evening set	9819 May 20 20:15	15°♊24'09	

inferior conj	9819 May 26 08:59	9°♊40'24	3°18'13
minimum elong	9819 May 26 09:32	9°♊38'38	3°17'49
min. Earth dist.	9819 May 28 01:22	7°♊32'47	0.66095 AU
morning rise	9819 May 31 22:13	3°♊20'19	
direct	9819 Jun 07 06:57	0°♊35'23	
desc. node	9819 Jun 11 16:41	1°♊40'51	
morning max el	9819 Jun 20 06:43	8°♊19'30	26°31'13
	9819 Jul 07 04:31	0°♋	
	9819 Jul 25 03:34	0°♌	
morning set	9819 Jul 26 05:06	1°♌59'26	
max. Earth dist.	9819 Jul 30 06:20	9°♌48'14	1.34565 AU
superior conj	9819 Aug 04 02:31	19°♌35'22	-0°04'20
minimum elong	9819 Aug 04 02:46	19°♌36'40	0°04'32
behind sun begin	9819 Aug 03 21:07	19°♌07'31	
behind sun end	9819 Aug 04 08:25	20°♌05'52	
asc. node	9819 Aug 04 12:58	20°♌29'24	
	9819 Aug 09 01:59	0°♍	
evening rise	9819 Aug 11 15:17	5°♍21'14	
	9819 Aug 25 04:07	0°♎	
evening max el	9819 Aug 30 18:43	6°♎46'58	20°58'57
desc. node	9819 Sep 07 15:15	11°♎58'12	
retrograde	9819 Sep 11 11:53	12°♎35'30	
evening set	9819 Sep 13 18:53	12°♎23'04	
inferior conj	9819 Sep 22 23:08	8°♎27'11	-4°21'26
minimum elong	9819 Sep 22 13:19	8°♎41'04	4°18'43
min. Earth dist.	9819 Sep 23 14:38	8°♎05'11	0.54644 AU
morning rise	9819 Oct 01 08:00	4°♎32'09	
direct	9819 Oct 05 06:56	3°♎58'32	
morning max el	9819 Oct 18 05:53	10°♎11'03	22°53'43
asc. node	9819 Oct 31 13:09	28°♎07'28	
	9819 Nov 01 14:37	0°♏	
morning set	9819 Nov 09 21:34	16°♏23'40	
	9819 Nov 16 05:33	0°♐	
superior conj	9819 Nov 16 21:18	1°♐24'21	1°40'01
minimum elong	9819 Nov 16 21:41	1°♐26'23	1°40'21
max. Earth dist.	9819 Nov 20 01:18	8°♐06'06	1.33702 AU
evening rise	9819 Nov 24 18:11	17°♐38'34	
	9819 Dec 01 08:07	0°♑	
desc. node	9819 Dec 04 13:35	5°♑37'35	
	9819 Dec 20 23:42	0°♒	
evening max el	9819 Dec 29 07:55	9°♒19'28	27°13'39
retrograde	9820 Jan 11 19:02	16°♒41'55	
evening set	9820 Jan 18 13:25	14°♒07'35	
min. Earth dist.	9820 Jan 22 10:54	10°♒27'55	0.64977 AU
inferior conj	9820 Jan 24 17:45	7°♒56'49	-0°55'31
minimum elong	9820 Jan 24 19:24	7°♒52'14	0°54'30
asc. node	9820 Jan 27 12:25	5°♒02'51	
morning rise	9820 Jan 31 02:56	2°♒26'53	
direct	9820 Feb 02 17:54	1°♒50'35	
morning max el	9820 Feb 09 03:41	5°♒12'31	17°58'07
	9820 Feb 25 21:33	0°♓	
morning set	9820 Feb 26 20:28	1°♓34'53	
desc. node	9820 Mar 01 13:23	7°♓41'45	
superior conj	9820 Mar 11 23:40	24°♓33'04	-1°11'50
minimum elong	9820 Mar 11 15:44	24°♓01'34	1°10'46
	9820 Mar 15 10:23	0°♈	
max. Earth dist.	9820 Mar 15 19:00	0°♈33'51	1.45336 AU
evening rise	9820 Mar 28 01:58	19°♈39'09	
	9820 Apr 03 20:05	0°♉	
greatest brilliancy	9820 Apr 11 06:24	11°♉09'40	-0.6m
evening max el	9820 Apr 22 22:20	26°♉25'21	19°47'16
asc. node	9820 Apr 24 10:46	27°♉51'15	
	9820 Apr 27 14:09	0°♊	
retrograde	9820 Apr 30 08:55	0°♊40'52	

	9820 May 03	00:37	30°℞♉		
evening set	9820 May 04	02:52	29°♉19'04		
inferior conj	9820 May 09	11:24	23°♉21'09	3°17'49	
minimum elong	9820 May 09	10:48	23°♉23'08	3°17'29	
min. Earth dist.	9820 May 10	13:03	21°♉55'21	0.67371 AU	
morning rise	9820 May 14	18:25	17°♉02'01		
direct	9820 May 20	16:30	14°♉24'02		
desc. node	9820 May 28	13:40	17°♉51'44		
morning max el	9820 Jun 01	16:31	21°♉36'01	25°13'32	
	9820 Jun 08	23:36	0°♊		
	9820 Jun 29	10:20	0°♋		
morning set	9820 Jul 07	17:21	14°♋14'42		
max. Earth dist.	9820 Jul 11	08:11	20°♋51'45	1.36499 AU	
	9820 Jul 16	03:02	0°♌		
superior conj	9820 Jul 17	15:35	2°♌59'40	-0°36'13	
minimum elong	9820 Jul 17	17:51	3°♌10'52	0°36'07	
asc. node	9820 Jul 21	09:53	10°♌32'10		
evening rise	9820 Jul 25	20:26	19°♌33'23		
	9820 Jul 31	03:38	0°♍		
evening max el	9820 Aug 12	03:38	17°♍54'55	19°44'21	
retrograde	9820 Aug 22	03:55	22°♍52'26		
evening set	9820 Aug 24	00:32	22°♍42'57		
desc. node	9820 Aug 24	12:27	22°♍37'19		
inferior conj	9820 Sep 01	21:43	18°♍40'42	-2°34'09	
minimum elong	9820 Sep 01	14:47	18°♍51'27	2°31'42	
min. Earth dist.	9820 Sep 04	01:22	17°♍20'49	0.55290 AU	
morning rise	9820 Sep 10	03:05	14°♍19'01		
direct	9820 Sep 14	21:24	13°♍28'54		
morning max el	9820 Sep 28	17:31	20°♍21'26	24°40'29	
	9820 Oct 06	23:25	0°♎		
asc. node	9820 Oct 17	10:03	17°♎06'01		
	9820 Oct 23	19:58	0°♏		
morning set	9820 Oct 24	09:21	1°♏11'12		
superior conj	9820 Oct 31	05:47	16°♏07'58	1°38'59	
minimum elong	9820 Oct 31	05:01	16°♏03'48	1°39'13	
max. Earth dist.	9820 Nov 02	02:47	20°♏13'15	1.32503 AU	
	9820 Nov 06	17:27	0°♐		
evening rise	9820 Nov 07	12:58	1°♐40'12		
desc. node	9820 Nov 20	10:40	25°♐30'21		
	9820 Nov 23	05:47	0°♑		
evening max el	9820 Dec 10	19:33	22°♑29'18	27°30'29	
retrograde	9820 Dec 24	13:27	29°♑48'24		
evening set	9820 Dec 31	13:47	27°♑20'28		
min. Earth dist.	9821 Jan 04	07:33	24°♑10'56	0.63198 AU	
inferior conj	9821 Jan 07	01:11	21°♑28'27	-2°05'30	
minimum elong	9821 Jan 07	05:15	21°♑18'22	2°03'30	
asc. node	9821 Jan 13	09:33	16°♑27'46		
morning rise	9821 Jan 13	22:48	16°♑14'15		
direct	9821 Jan 16	07:07	15°♑48'01		
morning max el	9821 Jan 22	21:14	19°♑11'29	17°47'20	
	9821 Jan 30	20:36	0°♒		
morning set	9821 Feb 08	02:52	14°♒03'28		
desc. node	9821 Feb 16	10:15	28°♒19'05		
	9821 Feb 17	10:16	0°♓		
superior conj	9821 Feb 20	07:22	4°♓47'24	-0°28'36	
minimum elong	9821 Feb 20	04:23	4°♓35'03	0°27'57	
max. Earth dist.	9821 Feb 26	13:15	14°♓55'49	1.44357 AU	
evening rise	9821 Mar 07	13:29	29°♓02'41		
	9821 Mar 08	04:24	0°♈		
	9821 Mar 28	14:58	0°♉		
evening max el	9821 Apr 05	22:43	10°♉07'40	20°51'42	
asc. node	9821 Apr 11	07:56	14°♉17'18		
retrograde	9821 Apr 14	07:33	15°♉01'25		
evening set	9821 Apr 18	11:07	13°♉23'58		
inferior conj	9821 Apr 23	18:04	7°♉13'36	3°05'33	
minimum elong	9821 Apr 23	16:34	7°♉18'45	3°05'08	
min. Earth dist.	9821 Apr 24	05:54	6°♉32'41	0.68194 AU	
morning rise	9821 Apr 28	21:48	0°♉57'44		
	9821 Apr 30	02:44	30°℞♈		
direct	9821 May 04	07:03	28°♈34'51		
	9821 May 08	22:13	0°♉		
morning max el	9821 May 15	01:53	5°♉01'01	23°45'18	
desc. node	9821 May 15	10:37	5°♉23'18		
	9821 Jun 03	07:36	0°♊		
morning set	9821 Jun 19	08:44	25°♊30'18		
	9821 Jun 21	23:19	0°♋		
max. Earth dist.	9821 Jun 23	05:01	2°♋10'16	1.38723 AU	
superior conj	9821 Jun 30	15:40	15°♋44'55	-1°09'03	
minimum elong	9821 Jun 30	20:12	16°♋06'12	1°08'42	
asc. node	9821 Jul 08	06:50	0°♌28'02		
	9821 Jul 08	01:06	0°♌		
evening rise	9821 Jul 09	18:41	3°♌23'11		
evening max el	9821 Jul 26	01:11	29°♌48'26	18°50'42	
	9821 Jul 26	05:54	0°♍		
retrograde	9821 Aug 03	11:45	4°♍00'35		
evening set	9821 Aug 05	10:26	3°♍48'02		
desc. node	9821 Aug 11	09:39	1°♍00'12		
	9821 Aug 12	20:39	30°℞♌		
inferior conj	9821 Aug 13	14:15	29°♌28'34	-0°40'34	
minimum elong	9821 Aug 13	12:34	29°♌31'37	0°40'07	
min. Earth dist.	9821 Aug 16	16:14	27°♌16'28	0.56768 AU	
morning rise	9821 Aug 21	11:24	24°♌29'55		
direct	9821 Aug 27	00:55	23°♌15'34		
	9821 Sep 09	14:49	0°♍		
morning max el	9821 Sep 10	07:19	0°♍38'57	26°15'45	
	9821 Sep 30	21:34	0°♎		
asc. node	9821 Oct 04	06:57	6°♎30'23		
morning set	9821 Oct 08	20:06	15°♎53'05		
	9821 Oct 15	06:42	0°♏		
superior conj	9821 Oct 15	16:51	0°♏56'18	1°32'04	
minimum elong	9821 Oct 15	15:13	0°♏47'14	1°32'06	
max. Earth dist.	9821 Oct 16	10:08	2°♏32'09	1.31772 AU	
evening rise	9821 Oct 22	15:17	16°♏00'48		
	9821 Oct 29	16:04	0°♐		
desc. node	9821 Nov 07	07:48	14°♐52'52		
	9821 Nov 18	08:48	0°♑		
evening max el	9821 Nov 23	02:58	5°♑01'00	27°15'12	
retrograde	9821 Dec 06	23:55	12°♑13'29		
evening set	9821 Dec 14	00:08	10°♑00'58		
min. Earth dist.	9821 Dec 17	17:30	7°♑14'59	0.61188 AU	
inferior conj	9821 Dec 20	19:28	4°♑33'29	-3°19'10	
minimum elong	9821 Dec 21	01:59	4°♑19'13	3°16'29	
	9821 Dec 27	06:20	30°℞♐		
morning rise	9821 Dec 28	06:18	29°♐38'29		
direct	9821 Dec 30	10:41	29°♐18'44		
asc. node	9821 Dec 31	06:39	29°♐21'42		
	9822 Jan 02	12:58	0°♑		
morning max el	9822 Jan 06	12:54	2°♑52'48	17°54'47	
morning set	9822 Jan 22	04:26	27°♑25'36		
	9822 Jan 23	14:17	0°♒		
superior conj	9822 Feb 01	16:16	16°♒13'23	0°12'13	
minimum elong	9822 Feb 01	17:20	16°♒18'02	0°12'20	
behind sun begin	9822 Feb 01	12:02	15°♒55'00		
behind sun end	9822 Feb 01	22:39	16°♒41'02		
desc. node	9822 Feb 03	07:07	19°♒00'59		
max. Earth dist.	9822 Feb 09	03:45	28°♒51'21	1.42772 AU	
	9822 Feb 09	20:29	0°♓		
evening rise	9822 Feb 15	09:44	8°♓54'52		

	9822 Mar 01 08:16	0°♈	
evening max el	9822 Mar 19 17:47	23°♈50'45	22°06'28
retrograde	9822 Mar 29 05:03	29°♈26'55	
asc. node	9822 Mar 29 05:07	29°♈26'55	
evening set	9822 Apr 02 19:16	27°♈34'08	
inferior conj	9822 Apr 08 02:46	21°♈13'44	2°43'00
minimum elong	9822 Apr 08 00:42	21°♈20'53	2°42'26
min. Earth dist.	9822 Apr 08 01:47	21°♈17'10	0.68557 AU
morning rise	9822 Apr 13 06:00	15°♈02'31	
direct	9822 Apr 18 01:30	12°♈59'44	
morning max el	9822 Apr 27 13:25	18°♈34'12	22°16'13
desc. node	9822 May 02 07:31	23°♈53'10	
	9822 May 07 02:09	0°♉	
	9822 May 27 10:48	0°♊	
morning set	9822 May 30 22:27	5°♊34'58	
max. Earth dist.	9822 Jun 05 03:47	14°♊12'21	1.40980 AU
superior conj	9822 Jun 12 22:25	27°♊40'55	-1°39'34
minimum elong	9822 Jun 13 04:33	28°♊08'17	1°39'16
	9822 Jun 14 05:27	0°♋	
evening rise	9822 Jun 23 06:37	16°♋41'54	
asc. node	9822 Jun 25 03:50	20°♋12'48	
	9822 Jun 30 13:52	0°♌	
evening max el	9822 Jul 09 07:54	12°♌20'52	18°17'54
retrograde	9822 Jul 16 14:53	16°♌01'07	
evening set	9822 Jul 18 20:19	15°♌41'19	
inferior conj	9822 Jul 26 04:38	11°♌01'30	0°54'49
minimum elong	9822 Jul 26 06:25	10°♌57'44	0°53'53
desc. node	9822 Jul 29 06:48	8°♌25'53	
min. Earth dist.	9822 Jul 29 13:30	8°♌12'26	0.58796 AU
morning rise	9822 Aug 02 13:09	5°♌28'03	
direct	9822 Aug 08 18:31	3°♌43'54	
morning max el	9822 Aug 23 03:45	11°♌29'52	27°23'40
	9822 Sep 06 14:29	0°♍	
asc. node	9822 Sep 21 03:50	26°♍13'25	
	9822 Sep 22 23:28	0°♎	
morning set	9822 Sep 23 04:11	0°♎24'50	
superior conj	9822 Sep 30 04:39	15°♎43'49	1°19'41
minimum elong	9822 Sep 30 02:30	15°♎31'52	1°19'28
max. Earth dist.	9822 Sep 29 19:54	14°♎55'14	1.31512 AU
evening rise	9822 Oct 06 22:45	0°♏33'53	
	9822 Oct 06 16:25	0°♏	
	9822 Oct 22 19:50	0°♐	
desc. node	9822 Oct 25 04:57	3°♐33'15	
evening max el	9822 Nov 05 03:23	16°♐43'52	26°25'46
retrograde	9822 Nov 19 01:28	23°♐49'51	
evening set	9822 Nov 25 16:15	22°♐02'39	
min. Earth dist.	9822 Nov 29 16:48	19°♐27'45	0.59082 AU
inferior conj	9822 Dec 02 21:04	17°♐02'40	-4°29'31
minimum elong	9822 Dec 03 04:51	16°♐47'49	4°27'05
morning rise	9822 Dec 10 20:00	12°♐29'45	
direct	9822 Dec 13 00:17	12°♐13'13	
asc. node	9822 Dec 18 03:42	13°♐51'04	
morning max el	9822 Dec 20 23:09	16°♐07'10	18°21'52
	9822 Dec 30 16:14	0°♑	
morning set	9823 Jan 05 19:29	11°♑24'32	
superior conj	9823 Jan 14 23:52	28°♑43'24	0°45'59
minimum elong	9823 Jan 15 02:49	28°♑56'54	0°45'53
	9823 Jan 15 16:38	0°♒	
desc. node	9823 Jan 21 04:01	9°♒44'07	
max. Earth dist.	9823 Jan 22 13:01	12°♒06'18	1.40765 AU
evening rise	9823 Jan 27 00:49	19°♒38'37	
	9823 Feb 02 12:05	0°♓	
	9823 Feb 23 16:04	0°♈	
evening max el	9823 Mar 02 08:59	7°♈35'49	23°26'30
retrograde	9823 Mar 13 00:00	13°♈52'35	
asc. node	9823 Mar 16 02:18	13°♈06'21	
evening set	9823 Mar 18 01:45	11°♈45'29	
inferior conj	9823 Mar 23 11:34	5°♈18'21	2°11'02
minimum elong	9823 Mar 23 09:22	5°♈25'56	2°10'22
min. Earth dist.	9823 Mar 22 22:32	6°♈03'12	0.68483 AU
	9823 Mar 27 19:32	30°℞♓	
morning rise	9823 Mar 28 16:57	29°♓12'58	
direct	9823 Apr 01 22:54	27°♓32'06	
	9823 Apr 07 16:41	0°♈	
morning max el	9823 Apr 10 06:22	2°♈17'55	20°54'08
desc. node	9823 Apr 19 04:23	13°♈05'16	
	9823 Apr 30 22:36	0°♉	
morning set	9823 May 10 10:19	14°♉30'21	
max. Earth dist.	9823 May 18 08:22	27°♉06'30	1.42997 AU
	9823 May 20 02:54	0°♊	
superior conj	9823 May 25 07:12	8°♊37'16	-2°02'57
minimum elong	9823 May 25 12:32	8°♊59'49	2°02'58
evening rise	9823 Jun 06 03:52	29°♊18'14	
	9823 Jun 06 13:15	0°♋	
asc. node	9823 Jun 12 00:51	9°♋40'59	
evening max el	9823 Jun 22 19:52	25°♋22'00	18°04'56
retrograde	9823 Jun 29 10:33	28°♋45'25	
evening set	9823 Jul 01 23:45	28°♋15'02	
inferior conj	9823 Jul 08 14:56	23°♋15'27	2°03'58
minimum elong	9823 Jul 08 17:48	23°♋08'28	2°02'47
min. Earth dist.	9823 Jul 11 18:51	20°♋11'56	0.61057 AU
morning rise	9823 Jul 15 09:16	17°♋17'16	
desc. node	9823 Jul 16 03:56	16°♋47'56	
direct	9823 Jul 22 00:23	15°♋04'06	
morning max el	9823 Aug 05 06:53	23°♋03'45	27°54'54
	9823 Aug 11 11:02	0°♌	
	9823 Aug 30 19:42	0°♍	
morning set	9823 Sep 07 07:39	14°♍40'04	
asc. node	9823 Sep 08 00:41	16°♍08'31	
max. Earth dist.	9823 Sep 13 04:06	27°♍10'21	1.31729 AU
	9823 Sep 14 10:57	0°♎	
superior conj	9823 Sep 14 15:18	0°♎23'59	1°02'07
minimum elong	9823 Sep 14 13:06	0°♎11'48	1°01'42
evening rise	9823 Sep 21 09:10	15°♎12'27	
	9823 Sep 28 15:58	0°♏	
desc. node	9823 Oct 12 02:06	21°♏14'20	
evening max el	9823 Oct 17 19:38	27°♏35'45	25°06'21
	9823 Oct 20 13:44	0°♐	
retrograde	9823 Oct 31 16:24	4°♐34'22	
evening set	9823 Nov 06 09:24	3°♐20'29	
min. Earth dist.	9823 Nov 11 07:28	0°♐38'54	0.57098 AU
	9823 Nov 12 07:15	30°℞♏	
inferior conj	9823 Nov 14 02:59	28°♏47'04	-5°23'39
minimum elong	9823 Nov 14 08:41	28°♏37'34	5°22'33
morning rise	9823 Nov 22 10:16	24°♏36'32	
direct	9823 Nov 24 19:47	24°♏19'57	
morning max el	9823 Dec 04 00:08	28°♏43'40	19°10'25
asc. node	9823 Dec 05 00:42	29°♏45'43	
	9823 Dec 05 06:02	0°♐	
morning set	9823 Dec 20 19:47	25°♐47'57	
	9823 Dec 22 22:25	0°♑	
superior conj	9823 Dec 29 01:16	12°♑03'21	1°11'18
minimum elong	9823 Dec 29 04:22	12°♑18'20	1°11'18
max. Earth dist.	9824 Jan 04 18:48	24°♑38'30	1.38575 AU
	9824 Jan 07 19:13	0°♒	
desc. node	9824 Jan 08 00:56	0°♒24'57	
evening rise	9824 Jan 08 13:36	1°♒19'56	
	9824 Jan 26 18:14	0°♓	

evening max el	9824 Feb 12 22:28	21°♓24'18	24°45'31
retrograde	9824 Feb 24 15:07	28°♓13'31	
evening set	9824 Mar 01 05:02	25°♓54'00	
asc. node	9824 Mar 01 23:28	25°♓12'13	
min. Earth dist.	9824 Mar 05 17:57	20°♓46'26	0.67994 AU
inferior conj	9824 Mar 06 18:41	19°♓24'27	1°30'03
minimum elong	9824 Mar 06 16:48	19°♓30'42	1°29'29
morning rise	9824 Mar 12 04:45	13°♓26'17	
direct	9824 Mar 15 22:01	12°♓06'52	
morning max el	9824 Mar 23 06:52	16°♓13'28	19°44'29
	9824 Apr 03 02:49	0°♈	
greatest brilliancy	9824 Apr 05 01:42	2°♈50'07	-0.6m
desc. node	9824 Apr 05 01:13	2°♈48'21	
morning set	9824 Apr 18 08:45	22°♈54'32	
	9824 Apr 22 22:44	0°♉	
max. Earth dist.	9824 Apr 29 19:51	10°♉48'12	1.44537 AU
superior conj	9824 May 04 15:36	18°♉31'07	-2°12'46
minimum elong	9824 May 04 15:56	18°♉32'25	2°13'02
	9824 May 11 15:58	0°♊	
evening rise	9824 May 18 05:39	11°♊01'46	
asc. node	9824 May 28 21:54	28°♊46'50	
	9824 May 29 16:51	0°♋	
evening max el	9824 Jun 05 09:35	8°♋43'20	18°10'52
retrograde	9824 Jun 11 18:24	12°♋04'32	
evening set	9824 Jun 14 15:25	11°♋21'07	
inferior conj	9824 Jun 20 17:18	6°♋03'12	2°48'15
minimum elong	9824 Jun 20 19:42	5°♋56'36	2°47'23
min. Earth dist.	9824 Jun 23 09:16	3°♋08'19	0.63255 AU
morning rise	9824 Jun 26 22:25	29°♊50'53	
	9824 Jun 26 17:43	30°℞♊	
desc. node	9824 Jul 02 01:01	27°♊25'11	
direct	9824 Jul 03 15:57	27°♊16'34	
	9824 Jul 11 07:32	0°♋	
morning max el	9824 Jul 17 14:51	5°♋19'24	27°47'53
	9824 Aug 05 06:26	0°♌	
morning set	9824 Aug 21 04:18	28°♌32'53	
	9824 Aug 21 21:35	0°♍	
asc. node	9824 Aug 24 21:34	6°♍11'09	
max. Earth dist.	9824 Aug 26 07:01	9°♍07'51	1.32441 AU
superior conj	9824 Aug 28 22:59	14°♍51'27	0°39'41
minimum elong	9824 Aug 28 21:15	14°♍42'04	0°39'13
evening rise	9824 Sep 04 20:42	29°♍51'19	
	9824 Sep 04 22:19	0°♎	
	9824 Sep 21 13:55	0°♏	
desc. node	9824 Sep 27 23:17	7°♏33'36	
evening max el	9824 Sep 28 06:47	7°♏51'53	23°28'52
retrograde	9824 Oct 11 18:30	14°♏35'43	
evening set	9824 Oct 16 02:26	13°♏54'54	
min. Earth dist.	9824 Oct 22 16:46	10°♏48'21	0.55543 AU
inferior conj	9824 Oct 24 12:51	9°♏43'20	-5°42'10
minimum elong	9824 Oct 24 11:51	9°♏44'50	5°41'55
morning rise	9824 Nov 01 23:09	5°♏50'31	
direct	9824 Nov 04 20:17	5°♏30'14	
morning max el	9824 Nov 15 12:32	10°♏32'30	20°21'39
asc. node	9824 Nov 20 21:41	16°♏50'10	
	9824 Nov 28 19:52	0°♐	
morning set	9824 Dec 04 02:08	10°♐26'40	
superior conj	9824 Dec 11 15:46	25°♐59'47	1°28'19
minimum elong	9824 Dec 11 18:03	26°♐11'23	1°28'30
	9824 Dec 13 15:40	0°♑	
max. Earth dist.	9824 Dec 17 02:00	6°♑41'39	1.36453 AU
evening rise	9824 Dec 20 22:10	13°♑52'44	
desc. node	9824 Dec 24 21:53	20°♑59'13	
	9824 Dec 30 06:36	0°♒	

	9825 Jan 20 14:39	0°♓	
evening max el	9825 Jan 25 11:51	5°♓13'18	25°56'20
retrograde	9825 Feb 07 01:20	12°♓23'22	
evening set	9825 Feb 13 03:28	9°♓54'17	
asc. node	9825 Feb 16 20:38	6°♓01'35	
min. Earth dist.	9825 Feb 17 09:45	5°♓21'29	0.67117 AU
inferior conj	9825 Feb 18 22:07	3°♓27'31	0°40'12
minimum elong	9825 Feb 18 21:07	3°♓30'39	0°40'00
	9825 Feb 21 20:31	30°℞♒	
morning rise	9825 Feb 24 15:22	27°♒38'28	
direct	9825 Feb 27 21:14	26°♒38'20	
	9825 Mar 06 07:30	0°♓	
morning max el	9825 Mar 06 14:57	0°♓18'01	18°50'06
desc. node	9825 Mar 22 22:02	22°♓53'32	
	9825 Mar 27 11:47	0°♈	
morning set	9825 Mar 28 17:21	1°♈55'17	
max. Earth dist.	9825 Apr 12 12:58	25°♈03'44	1.45431 AU
superior conj	9825 Apr 14 03:33	27°♈35'07	-2°03'24
minimum elong	9825 Apr 13 20:39	27°♈08'00	2°03'11
	9825 Apr 15 16:25	0°♉	
evening rise	9825 Apr 29 08:01	21°♉45'28	
	9825 May 04 10:27	0°♊	
asc. node	9825 May 15 18:59	17°♊22'06	
evening max el	9825 May 19 21:59	22°♊16'16	18°35'01
retrograde	9825 May 26 10:22	25°♊49'04	
evening set	9825 May 29 15:10	24°♊51'10	
inferior conj	9825 Jun 04 07:40	19°♊16'19	3°12'05
minimum elong	9825 Jun 04 08:56	19°♊12'27	3°11'34
min. Earth dist.	9825 Jun 06 08:45	16°♊48'10	0.65172 AU
morning rise	9825 Jun 10 01:53	12°♊57'43	
direct	9825 Jun 16 15:19	10°♊13'33	
desc. node	9825 Jun 18 22:03	10°♊31'02	
morning max el	9825 Jun 30 01:12	18°♊07'48	27°07'06
	9825 Jul 10 00:21	0°♋	
	9825 Jul 29 05:00	0°♌	
morning set	9825 Aug 04 15:24	11°♌56'00	
max. Earth dist.	9825 Aug 09 01:18	20°♌41'20	1.33653 AU
asc. node	9825 Aug 11 18:27	26°♌17'10	
superior conj	9825 Aug 13 01:33	29°♌00'16	0°12'52
minimum elong	9825 Aug 13 00:54	28°♌56'49	0°12'31
behind sun begin	9825 Aug 12 21:22	28°♌38'11	
behind sun end	9825 Aug 13 04:26	29°♌15'28	
	9825 Aug 13 12:52	0°♍	
evening rise	9825 Aug 20 07:27	14°♍25'10	
	9825 Aug 28 03:30	0°♎	
evening max el	9825 Sep 09 20:45	18°♎04'35	21°50'17
desc. node	9825 Sep 14 20:29	22°♎02'28	
retrograde	9825 Sep 22 09:22	24°♎18'14	
evening set	9825 Sep 25 06:59	23°♎59'21	
inferior conj	9825 Oct 04 08:09	20°♎01'02	-5°06'55
minimum elong	9825 Oct 03 23:50	20°♎12'38	5°05'14
min. Earth dist.	9825 Oct 04 00:14	20°♎12'05	0.54713 AU
morning rise	9825 Oct 12 18:00	16°♎13'08	
direct	9825 Oct 16 07:05	15°♎45'36	
morning max el	9825 Oct 28 11:40	21°♎31'36	21°53'55
	9825 Nov 04 15:03	0°♏	
asc. node	9825 Nov 07 18:38	4°♏49'12	
morning set	9825 Nov 18 12:10	25°♏13'59	
	9825 Nov 20 18:18	0°♐	
superior conj	9825 Nov 25 15:36	10°♐22'08	1°37'44
minimum elong	9825 Nov 25 16:42	10°♐27'54	1°38'03
max. Earth dist.	9825 Nov 29 15:13	18°♐36'07	1.34599 AU
evening rise	9825 Dec 03 22:56	27°♐07'57	
	9825 Dec 05 11:09	0°♑	

desc. node	9825 Dec 11 18:55	11°♑22'37	
	9825 Dec 23 14:22	0°♒	
evening max el	9826 Jan 08 01:22	18°♒55'41	26°51'34
retrograde	9826 Jan 21 05:53	26°♒15'47	
evening set	9826 Jan 27 19:12	23°♒41'30	
min. Earth dist.	9826 Jan 31 19:39	19°♒43'03	0.65867 AU
inferior conj	9826 Feb 02 19:49	17°♒23'18	-0°18'13
minimum elong	9826 Feb 02 20:19	17°♒21'50	0°17'44
asc. node	9826 Feb 03 17:47	16°♒20'05	
morning rise	9826 Feb 08 22:35	11°♒45'44	
direct	9826 Feb 11 18:33	11°♒01'44	
morning max el	9826 Feb 18 04:56	14°♒26'38	18°12'13
	9826 Mar 01 12:54	0°♓	
morning set	9826 Mar 09 04:54	12°♓18'37	
desc. node	9826 Mar 09 18:52	13°♓14'59	
	9826 Mar 20 06:28	0°♈	
superior conj	9826 Mar 24 09:30	6°♈29'56	-1°34'34
minimum elong	9826 Mar 24 00:01	5°♈52'39	1°33'36
max. Earth dist.	9826 Mar 26 08:49	9°♈35'18	1.45588 AU
	9826 Apr 08 10:59	0°♉	
evening rise	9826 Apr 09 11:38	1°♉35'59	
greatest brilliancy	9826 Apr 21 05:12	19°♉43'52	-0.7m
	9826 Apr 28 07:50	0°♊	
asc. node	9826 May 02 16:07	5°♊17'04	
evening max el	9826 May 03 06:39	5°♊54'46	19°16'20
retrograde	9826 May 10 07:01	9°♊51'47	
evening set	9826 May 13 19:58	8°♊38'41	
inferior conj	9826 May 19 06:32	2°♊48'29	3°19'36
minimum elong	9826 May 19 06:35	2°♊48'20	3°19'16
min. Earth dist.	9826 May 20 16:27	0°♊58'22	0.66692 AU
	9826 May 21 10:54	30°℞♉	
morning rise	9826 May 24 16:46	26°♉28'34	
direct	9826 May 30 21:15	23°♉45'46	
desc. node	9826 Jun 05 19:04	25°♉43'07	
	9826 Jun 11 04:10	0°♊	
morning max el	9826 Jun 12 11:43	1°♊17'36	26°00'13
	9826 Jul 04 01:22	0°♋	
morning set	9826 Jul 18 13:17	24°♋39'28	
	9826 Jul 21 09:37	0°♌	
max. Earth dist.	9826 Jul 22 09:10	1°♌52'49	1.35341 AU
superior conj	9826 Jul 27 20:26	12°♌42'57	-0°17'34
minimum elong	9826 Jul 27 21:29	12°♌48'16	0°17'40
asc. node	9826 Jul 29 15:22	16°♌22'13	
evening rise	9826 Aug 04 15:21	28°♌47'21	
	9826 Aug 05 05:29	0°♍	
evening max el	9826 Aug 22 21:36	28°♍46'33	20°24'41
	9826 Aug 24 05:03	0°♎	
desc. node	9826 Sep 01 17:42	4°♎10'35	
retrograde	9826 Sep 02 21:46	4°♎14'09	
evening set	9826 Sep 04 22:20	4°♎03'52	
inferior conj	9826 Sep 14 01:17	0°♎06'29	-3°38'52
minimum elong	9826 Sep 13 16:02	0°♎19'59	3°35'56
	9826 Sep 14 05:43	30°℞♍	
min. Earth dist.	9826 Sep 15 09:08	29°♍20'03	0.54804 AU
morning rise	9826 Sep 22 09:09	26°♍02'27	
direct	9826 Sep 26 15:57	25°♍23'01	
	9826 Oct 07 21:40	0°♎	
morning max el	9826 Oct 10 01:33	1°♎52'54	23°39'27
asc. node	9826 Oct 25 15:33	23°♎29'00	
	9826 Oct 29 02:24	0°♏	
morning set	9826 Nov 02 23:50	10°♏02'58	
superior conj	9826 Nov 09 21:39	25°♏00'15	1°40'20
minimum elong	9826 Nov 09 21:32	24°♏59'35	1°40'38
	9826 Nov 12 05:29	0°♐	
max. Earth dist.	9826 Nov 12 12:15	0°♐35'57	1.33138 AU
evening rise	9826 Nov 17 12:04	10°♐54'50	
	9826 Nov 27 19:05	0°♑	
desc. node	9826 Nov 28 15:59	1°♑28'31	
	9826 Dec 19 06:10	0°♒	
evening max el	9826 Dec 21 13:59	2°♒20'05	27°24'15
retrograde	9827 Jan 04 04:17	9°♒41'48	
evening set	9827 Jan 11 01:58	7°♒08'49	
min. Earth dist.	9827 Jan 14 21:31	3°♒42'51	0.64262 AU
inferior conj	9827 Jan 17 09:15	1°♒05'24	-1°24'30
minimum elong	9827 Jan 17 11:53	0°♒58'27	1°23'03
	9827 Jan 18 10:18	30°℞♑	
asc. node	9827 Jan 21 14:55	27°♑05'51	
morning rise	9827 Jan 23 23:36	25°♑42'05	
direct	9827 Jan 26 11:29	25°♑10'31	
morning max el	9827 Feb 01 22:07	28°♑31'40	17°51'23
	9827 Feb 03 07:22	0°♒	
morning set	9827 Feb 18 21:08	24°♒06'04	
	9827 Feb 22 09:13	0°♓	
desc. node	9827 Feb 24 15:44	3°♓47'38	
superior conj	9827 Mar 04 04:13	16°♓06'15	-0°53'38
minimum elong	9827 Mar 03 22:17	15°♓42'19	0°52'42
max. Earth dist.	9827 Mar 09 04:12	24°♓04'41	1.44999 AU
	9827 Mar 12 22:41	0°♈	
evening rise	9827 Mar 20 00:49	10°♈58'03	
	9827 Apr 01 15:21	0°♉	
greatest brilliancy	9827 Apr 03 18:40	3°♉08'09	-0.6m
evening max el	9827 Apr 16 10:07	19°♉35'38	20°13'10
asc. node	9827 Apr 19 13:15	22°♉19'40	
retrograde	9827 Apr 24 05:38	24°♉07'05	
evening set	9827 Apr 28 03:30	22°♉38'35	
inferior conj	9827 May 03 11:02	16°♉34'52	3°13'57
minimum elong	9827 May 03 10:02	16°♉38'19	3°13'37
min. Earth dist.	9827 May 04 06:38	15°♉28'08	0.67768 AU
morning rise	9827 May 08 16:18	10°♉16'45	
direct	9827 May 14 08:57	7°♉44'34	
desc. node	9827 May 23 16:04	12°♉31'28	
morning max el	9827 May 25 21:22	14°♉39'02	24°36'49
	9827 Jun 07 10:10	0°♊	
	9827 Jun 26 22:27	0°♋	
morning set	9827 Jun 30 17:24	6°♋31'36	
max. Earth dist.	9827 Jul 04 08:14	12°♋59'32	1.37414 AU
superior conj	9827 Jul 11 04:29	25°♋51'48	-0°50'10
minimum elong	9827 Jul 11 07:42	26°♋07'27	0°49'57
	9827 Jul 13 07:15	0°♌	
asc. node	9827 Jul 16 12:18	6°♌22'42	
evening rise	9827 Jul 19 17:59	12°♌51'18	
	9827 Jul 28 21:39	0°♍	
evening max el	9827 Aug 05 12:11	10°♍14'21	19°18'58
retrograde	9827 Aug 14 19:49	14°♍51'43	
evening set	9827 Aug 16 16:04	14°♍41'37	
desc. node	9827 Aug 19 14:54	13°♍47'08	
inferior conj	9827 Aug 25 06:38	10°♍32'58	-1°45'02
minimum elong	9827 Aug 25 01:57	10°♍40'40	1°43'22
min. Earth dist.	9827 Aug 27 21:41	8°♍49'31	0.55825 AU
morning rise	9827 Sep 02 09:04	5°♍55'36	
direct	9827 Sep 07 11:28	4°♍56'13	
morning max el	9827 Sep 21 13:35	12°♍03'43	25°23'22
	9827 Oct 05 09:35	0°♎	
asc. node	9827 Oct 12 12:29	12°♎39'33	
morning set	9827 Oct 18 11:23	24°♎48'51	
	9827 Oct 20 20:55	0°♏	
superior conj	9827 Oct 25 07:30	9°♏46'56	1°36'45
minimum elong	9827 Oct 25 06:20	9°♏40'30	1°36'54

max. Earth dist.	9827 Oct 26	16:25	12°♏47'51	1.32135 AU
evening rise	9827 Nov 01	10:23	25°♏05'23	
	9827 Nov 03	20:20	0°♐	
desc. node	9827 Nov 15	13:05	21°♐09'30	
	9827 Nov 21	08:08	0°♑	
evening max el	9827 Dec 03	23:56	15°♑14'27	27°27'59
retrograde	9827 Dec 17	19:41	22°♑31'46	
evening set	9827 Dec 24	20:51	20°♑08'56	
min. Earth dist.	9827 Dec 28	13:44	17°♑10'35	0.62365 AU
inferior conj	9827 Dec 31	11:28	14°♑26'30	-2°36'38
minimum elong	9827 Dec 31	16:37	14°♑14'21	2°34'17
morning rise	9828 Jan 07	14:46	9°♑20'18	
asc. node	9828 Jan 08	12:03	9°♑05'55	
direct	9828 Jan 09	20:52	8°♑57'24	
morning max el	9828 Jan 16	15:20	12°♑24'25	17°48'11
	9828 Jan 28	13:25	0°♒	
morning set	9828 Feb 01	12:26	6°♒59'20	
desc. node	9828 Feb 11	12:35	24°♒27'11	
superior conj	9828 Feb 12	22:37	26°♒51'11	-0°10'37
minimum elong	9828 Feb 12	21:36	26°♒46'54	0°10'14
behind sun begin	9828 Feb 12	14:41	26°♒17'42	
behind sun end	9828 Feb 13	04:31	27°♒16'03	
	9828 Feb 14	19:43	0°♓	
max. Earth dist.	9828 Feb 19	20:30	8°♓15'04	1.43742 AU
evening rise	9828 Feb 27	14:15	20°♓29'14	
	9828 Mar 04	19:38	0°♈	
	9828 Mar 26	07:56	0°♉	
evening max el	9828 Mar 29	08:01	3°♉17'38	21°22'36
asc. node	9828 Apr 05	10:26	8°♉14'52	
retrograde	9828 Apr 07	04:00	8°♉29'47	
evening set	9828 Apr 11	11:51	6°♉45'57	
inferior conj	9828 Apr 16	18:48	0°♉30'56	2°57'12
minimum elong	9828 Apr 16	17:01	0°♉37'07	2°56'43
min. Earth dist.	9828 Apr 17	01:08	0°♉08'53	0.68396 AU
	9828 Apr 17	03:41	30°℞♈	
morning rise	9828 Apr 21	21:58	24°♈16'38	
direct	9828 Apr 27	01:22	22°♈01'44	
morning max el	9828 May 07	07:10	28°♈06'49	23°06'57
	9828 May 09	02:10	0°♉	
desc. node	9828 May 09	12:59	0°♉29'52	
	9828 May 31	02:25	0°♊	
morning set	9828 Jun 10	22:16	17°♊17'42	
max. Earth dist.	9828 Jun 15	04:25	24°♊30'51	1.39688 AU
	9828 Jun 18	07:41	0°♋	
superior conj	9828 Jun 22	21:40	8°♋16'48	-1°22'32
minimum elong	9828 Jun 23	03:02	8°♋41'30	1°22'10
asc. node	9828 Jul 02	09:15	26°♋13'59	
evening rise	9828 Jul 02	12:14	26°♋28'16	
	9828 Jul 04	08:31	0°♌	
evening max el	9828 Jul 18	14:08	22°♌25'24	18°34'21
retrograde	9828 Jul 26	11:33	26°♌21'49	
evening set	9828 Jul 28	12:50	26°♌06'41	
inferior conj	9828 Aug 05	08:19	21°♌39'05	0°02'52
minimum elong	9828 Aug 05	08:25	21°♌38'54	0°02'35
transit middle	9828 Aug 05	08:25	21°♌38'54	0°02'35
transit begin	9828 Aug 05	04:51	21°♌45'45	
transit end	9828 Aug 05	11:59	21°♌32'02	
desc. node	9828 Aug 05	12:05	21°♌31'50	
min. Earth dist.	9828 Aug 08	15:11	19°♌08'34	0.57581 AU
morning rise	9828 Aug 13	00:28	16°♌24'44	
direct	9828 Aug 18	21:35	14°♌57'39	
morning max el	9828 Sep 02	05:45	22°♌32'14	26°48'38
	9828 Sep 08	20:54	0°♍	
	9828 Sep 27	06:51	0°♎	
asc. node	9828 Sep 28	09:22	2°♎12'22	
morning set	9828 Oct 01	21:12	9°♎26'45	
superior conj	9828 Oct 08	19:07	24°♎35'44	1°27'28
minimum elong	9828 Oct 08	17:13	24°♎25'09	1°27'24
max. Earth dist.	9828 Oct 09	01:03	25°♎08'45	1.31601 AU
	9828 Oct 11	05:35	0°♏	
evening rise	9828 Oct 15	15:10	9°♏32'10	
	9828 Oct 26	03:53	0°♐	
desc. node	9828 Nov 01	10:12	10°♐15'49	
evening max el	9828 Nov 15	04:48	27°♐27'15	26°58'22
	9828 Nov 18	03:20	0°♑	
retrograde	9828 Nov 29	02:51	4°♑37'02	
evening set	9828 Dec 06	00:06	2°♑34'26	
	9828 Dec 09	16:41	30°℞♐	
min. Earth dist.	9828 Dec 09	19:22	29°♐54'40	0.60290 AU
inferior conj	9828 Dec 12	23:10	27°♐18'11	-3°50'01
minimum elong	9828 Dec 13	06:28	27°♐03'04	3°47'19
morning rise	9828 Dec 20	15:24	22°♐32'04	
direct	9828 Dec 22	19:04	22°♐14'09	
asc. node	9828 Dec 25	09:08	22°♐41'09	
morning max el	9828 Dec 30	05:10	25°♐55'58	18°03'43
	9829 Jan 02	16:29	0°♑	
morning set	9829 Jan 14	20:25	20°♑39'35	
	9829 Jan 19	21:20	0°♒	
superior conj	9829 Jan 24	17:44	8°♒46'15	0°27'31
minimum elong	9829 Jan 24	19:52	8°♒55'42	0°27'31
desc. node	9829 Jan 28	09:26	15°♒10'13	
max. Earth dist.	9829 Feb 01	08:36	21°♒54'06	1.41959 AU
	9829 Feb 06	07:12	0°♓	
evening rise	9829 Feb 06	17:51	0°♓42'44	
	9829 Feb 26	07:31	0°♈	
evening max el	9829 Mar 12	01:21	17°♈02'17	22°40'17
retrograde	9829 Mar 22	00:29	22°♈56'00	
asc. node	9829 Mar 23	07:37	22°♈47'44	
evening set	9829 Mar 26	19:28	20°♈57'12	
inferior conj	9829 Apr 01	03:47	14°♈33'42	2°30'35
minimum elong	9829 Apr 01	01:36	14°♈41'14	2°29'57
min. Earth dist.	9829 Mar 31	21:41	14°♈54'53	0.68582 AU
morning rise	9829 Apr 06	07:36	8°♈24'43	
direct	9829 Apr 10	21:23	6°♈30'54	
morning max el	9829 Apr 19	20:26	11°♈43'34	21°39'57
desc. node	9829 Apr 26	09:52	19°♈19'23	
	9829 May 04	06:11	0°♉	
morning set	9829 May 22	00:18	26°♉50'10	
	9829 May 23	23:43	0°♊	
max. Earth dist.	9829 May 28	05:11	6°♊54'11	1.41890 AU
superior conj	9829 Jun 04	19:33	19°♊48'22	-1°50'44
minimum elong	9829 Jun 05	01:46	20°♊15'27	1°50'32
	9829 Jun 10	13:25	0°♋	
evening rise	9829 Jun 15	18:25	9°♋29'35	
asc. node	9829 Jun 19	06:14	15°♋51'55	
	9829 Jun 27	17:42	0°♌	
evening max el	9829 Jul 01	23:33	5°♌10'53	18°10'02
retrograde	9829 Jul 08	22:00	8°♌41'44	
evening set	9829 Jul 11	06:54	8°♌17'38	
inferior conj	9829 Jul 18	07:28	3°♌29'11	1°27'27
minimum elong	9829 Jul 18	09:58	3°♌23'34	1°26'17
min. Earth dist.	9829 Jul 21	15:25	0°♌31'12	0.59755 AU
	9829 Jul 22	06:21	30°℞♋	
desc. node	9829 Jul 23	09:15	29°♋07'02	
morning rise	9829 Jul 25	10:01	27°♋44'13	
direct	9829 Jul 31	20:36	25°♋47'08	
	9829 Aug 11	01:14	0°♌	
morning max el	9829 Aug 15	04:50	3°♌39'14	27°41'44
	9829 Sep 03	13:25	0°♍	

asc. node	9829 Sep 15	06:12	22°♍00'39	
morning set	9829 Sep 16	03:30	23°♍51'27	
	9829 Sep 19	00:41	0°♎	
max. Earth dist.	9829 Sep 22	10:38	7°♎29'31	1.31544 AU
superior conj	9829 Sep 23	06:36	9°♎20'17	1°12'50
minimum elong	9829 Sep 23	04:22	9°♎07'53	1°12'33
evening rise	9829 Sep 30	00:06	24°♎08'07	
	9829 Oct 02	19:01	0°♏	
desc. node	9829 Oct 19	07:21	28°♏33'12	
	9829 Oct 20	09:02	0°♐	
evening max el	9829 Oct 28	02:00	8°♐48'44	25°55'17
retrograde	9829 Nov 10	23:47	15°♐50'59	
evening set	9829 Nov 17	06:57	14°♐17'34	
min. Earth dist.	9829 Nov 21	14:40	11°♐42'11	0.58208 AU
inferior conj	9829 Nov 24	16:43	9°♐29'35	-4°55'29
minimum elong	9829 Nov 25	00:10	9°♐16'12	4°53'32
morning rise	9829 Dec 02	19:46	5°♐06'01	
direct	9829 Dec 05	01:39	4°♐49'45	
asc. node	9829 Dec 12	06:10	7°♐48'26	
morning max el	9829 Dec 13	11:52	8°♐55'11	18°39'44
	9829 Dec 27	03:36	0°♑	
morning set	9829 Dec 29	15:54	4°♑50'38	
superior conj	9830 Jan 07	09:32	21°♑39'13	0°57'44
minimum elong	9830 Jan 07	12:43	21°♑54'06	0°57'41
	9830 Jan 11	22:34	0°♒	
max. Earth dist.	9830 Jan 14	16:34	4°♒52'39	1.39849 AU
desc. node	9830 Jan 15	06:19	5°♒52'36	
evening rise	9830 Jan 18	18:14	11°♒51'22	
	9830 Jan 30	03:27	0°♓	
	9830 Feb 21	20:17	0°♈	
evening max el	9830 Feb 22	15:43	0°♈49'14	24°00'36
retrograde	9830 Mar 05	17:46	7°♈20'12	
asc. node	9830 Mar 10	04:48	5°♈46'40	
evening set	9830 Mar 11	00:46	5°♈07'30	
	9830 Mar 15	12:10	30°℞♓	
min. Earth dist.	9830 Mar 15	18:02	29°♓40'12	0.68335 AU
inferior conj	9830 Mar 16	12:04	28°♓39'01	1°54'44
minimum elong	9830 Mar 16	09:57	28°♓46'15	1°54'05
morning rise	9830 Mar 21	19:10	22°♓36'41	
direct	9830 Mar 25	19:41	21°♓05'02	
morning max el	9830 Apr 02	16:27	25°♓32'08	20°22'43
	9830 Apr 06	16:22	0°♈	
desc. node	9830 Apr 13	06:42	8°♈45'30	
	9830 Apr 27	15:27	0°♉	
morning set	9830 May 01	04:02	5°♉25'00	
max. Earth dist.	9830 May 10	13:24	20°♉12'16	1.43730 AU
superior conj	9830 May 16	18:00	0°♊17'43	-2°09'09
minimum elong	9830 May 16	21:46	0°♊33'16	2°09'21
	9830 May 16	13:43	0°♊	
evening rise	9830 May 29	07:57	21°♊44'43	
	9830 Jun 03	01:54	0°♋	
asc. node	9830 Jun 06	03:16	5°♋11'24	
evening max el	9830 Jun 15	12:38	18°♋21'30	18°05'10
retrograde	9830 Jun 21	23:33	21°♋42'19	
evening set	9830 Jun 24	16:09	21°♋06'31	
inferior conj	9830 Jul 01	01:08	15°♋58'36	2°25'34
minimum elong	9830 Jul 01	03:56	15°♋51'23	2°24'29
min. Earth dist.	9830 Jul 04	00:23	12°♋56'27	0.62013 AU
morning rise	9830 Jul 07	13:37	9°♋53'14	
desc. node	9830 Jul 10	06:21	8°♋20'54	
direct	9830 Jul 14	06:31	7°♋30'15	
morning max el	9830 Jul 28	10:26	15°♋32'00	27°56'36
	9830 Aug 09	05:55	0°♌	
	9830 Aug 27	04:09	0°♍	
morning set	9830 Aug 31	04:23	7°♍58'00	
asc. node	9830 Sep 02	03:03	11°♍59'25	
max. Earth dist.	9830 Sep 05	17:18	19°♍39'32	1.31972 AU
superior conj	9830 Sep 07	16:14	23°♍55'39	0°53'10
minimum elong	9830 Sep 07	14:09	23°♍44'16	0°52'44
	9830 Sep 10	10:28	0°♎	
evening rise	9830 Sep 14	11:15	8°♎47'40	
	9830 Sep 25	07:23	0°♏	
desc. node	9830 Oct 06	04:32	15°♏42'44	
evening max el	9830 Oct 09	15:18	19°♏21'58	24°26'08
retrograde	9830 Oct 23	09:07	26°♏15'39	
evening set	9830 Oct 28	13:29	25°♏16'12	
min. Earth dist.	9830 Nov 03	02:14	22°♏26'26	0.56368 AU
inferior conj	9830 Nov 05	13:52	20°♏53'04	-5°37'08
minimum elong	9830 Nov 05	17:14	20°♏47'47	5°36'36
morning rise	9830 Nov 13	23:07	16°♏51'24	
direct	9830 Nov 16	13:00	16°♏33'37	
morning max el	9830 Nov 26	07:48	21°♏12'10	19°37'59
asc. node	9830 Nov 29	03:10	24°♏14'33	
	9830 Dec 03	06:46	0°♐	
morning set	9830 Dec 13	19:08	19°♐21'41	
	9830 Dec 19	01:30	0°♑	
superior conj	9830 Dec 21	17:05	5°♑16'28	1°19'28
minimum elong	9830 Dec 21	19:55	5°♑30'26	1°19'34
max. Earth dist.	9830 Dec 27	22:35	17°♑11'17	1.37654 AU
evening rise	9830 Dec 31	15:50	23°♑55'18	
desc. node	9831 Jan 02	03:15	26°♑30'57	
	9831 Jan 04	03:49	0°♒	
	9831 Jan 23	20:52	0°♓	
evening max el	9831 Feb 05	04:55	14°♓37'50	25°16'54
retrograde	9831 Feb 17	06:54	21°♓37'20	
evening set	9831 Feb 23	02:13	19°♓12'58	
asc. node	9831 Feb 25	02:00	17°♓16'05	
min. Earth dist.	9831 Feb 27	12:06	14°♓20'29	0.67676 AU
inferior conj	9831 Feb 28	17:52	12°♓43'55	1°09'57
minimum elong	9831 Feb 28	16:17	12°♓49'04	1°09'30
morning rise	9831 Mar 06	06:44	6°♓49'40	
direct	9831 Mar 09	18:56	5°♓38'56	
morning max el	9831 Mar 16	20:25	9°♓32'20	19°19'21
greatest brilliancy	9831 Mar 29	17:02	26°♓29'30	-0.7m
desc. node	9831 Mar 31	03:32	28°♓38'29	
	9831 Apr 01	01:11	0°♈	
morning set	9831 Apr 10	03:52	13°♈56'28	
	9831 Apr 20	11:55	0°♉	
max. Earth dist.	9831 Apr 23	03:40	4°♉10'29	1.45003 AU
superior conj	9831 Apr 26	16:33	9°♉46'23	-2°11'19
minimum elong	9831 Apr 26	13:42	9°♉35'03	2°11'30
	9831 May 09	03:52	0°♊	
evening rise	9831 May 11	00:06	3°♊03'05	
asc. node	9831 May 24	00:20	24°♊05'09	
	9831 May 28	10:16	0°♋	
evening max el	9831 May 30	02:03	1°♋47'57	18°18'58
retrograde	9831 Jun 05	11:29	5°♋12'55	
evening set	9831 Jun 08	11:41	4°♋23'34	
	9831 Jun 13	11:21	30°℞♊	
inferior conj	9831 Jun 14	09:06	28°♊58'06	3°00'36
minimum elong	9831 Jun 14	11:04	28°♊52'27	2°59'54
min. Earth dist.	9831 Jun 16	18:51	26°♊12'43	0.64106 AU
morning rise	9831 Jun 20	09:12	22°♊42'01	
direct	9831 Jun 27	01:31	20°♊02'09	
desc. node	9831 Jun 27	03:27	20°♊02'11	
morning max el	9831 Jul 10	19:59	28°♊03'38	27°34'22
	9831 Jul 12	16:26	0°♋	
	9831 Aug 03	00:36	0°♌	

morning set	9831 Aug 14 21:21	21°♌39'04	
	9831 Aug 19 00:12	0°♍	
max. Earth dist.	9831 Aug 19 16:59	1°♍27'24	1.32893 AU
asc. node	9831 Aug 19 23:54	2°♍03'37	
superior conj	9831 Aug 22 21:59	8°♍15'23	0°28'49
minimum elong	9831 Aug 22 20:38	8°♍08'08	0°28'22
evening rise	9831 Aug 29 22:40	23°♍24'33	
	9831 Sep 02 02:20	0°♎	
evening max el	9831 Sep 21 02:12	29°♎30'35	22°46'02
	9831 Sep 21 14:30	0°♏	
desc. node	9831 Sep 23 01:45	1°♏18'24	
retrograde	9831 Oct 04 06:22	6°♏04'42	
evening set	9831 Oct 07 22:47	5°♏34'58	
min. Earth dist.	9831 Oct 15 10:20	2°♏12'39	0.55082 AU
inferior conj	9831 Oct 16 16:19	1°♏29'48	-5°34'23
minimum elong	9831 Oct 16 11:49	1°♏36'15	5°33'47
	9831 Oct 19 08:50	30°℞♎	
morning rise	9831 Oct 25 02:42	27°♎41'24	
direct	9831 Oct 28 06:00	27°♎18'41	
	9831 Nov 05 07:24	0°♏	
morning max el	9831 Nov 08 14:30	2°♏39'17	20°58'44
asc. node	9831 Nov 16 00:07	11°♏43'17	
	9831 Nov 26 03:43	0°♐	
morning set	9831 Nov 28 03:18	4°♐04'13	
superior conj	9831 Dec 05 11:59	19°♐24'56	1°33'12
minimum elong	9831 Dec 05 13:48	19°♐34'14	1°33'26
max. Earth dist.	9831 Dec 10 07:27	29°♐05'58	1.35615 AU
	9831 Dec 10 18:29	0°♑	
evening rise	9831 Dec 14 07:43	6°♑46'54	
desc. node	9831 Dec 20 00:16	17°♑00'57	
	9831 Dec 27 21:49	0°♒	
evening max el	9832 Jan 18 18:13	28°♒24'32	26°22'07
	9832 Jan 20 11:15	0°♓	
retrograde	9832 Jan 31 15:04	5°♓41'01	
evening set	9832 Feb 06 22:07	3°♓08'53	
	9832 Feb 10 02:05	30°℞♒	
min. Earth dist.	9832 Feb 11 01:42	28°♒50'51	0.66625 AU
asc. node	9832 Feb 11 23:10	27°♒45'53	
inferior conj	9832 Feb 12 19:11	26°♒44'43	0°16'27
minimum elong	9832 Feb 12 18:44	26°♒46'04	0°16'30
morning rise	9832 Feb 18 16:13	21°♒00'21	
direct	9832 Feb 21 17:33	20°♒07'42	
morning max el	9832 Feb 28 07:24	23°♒39'59	18°31'55
	9832 Mar 04 14:00	0°♓	
desc. node	9832 Mar 17 00:22	18°♓51'18	
morning set	9832 Mar 19 22:54	23°♓29'49	
	9832 Mar 24 01:50	0°♈	
superior conj	9832 Apr 04 23:50	18°♈41'09	-1°53'17
minimum elong	9832 Apr 04 14:56	18°♈06'23	1°52'42
max. Earth dist.	9832 Apr 04 21:53	18°♈33'33	1.45586 AU
	9832 Apr 12 05:08	0°♉	
evening rise	9832 Apr 20 16:24	13°♉22'33	
greatest brilliancy	9832 Apr 29 12:29	27°♉22'01	-0.8m
	9832 May 01 05:04	0°♊	
asc. node	9832 May 09 21:28	12°♊24'53	
evening max el	9832 May 12 13:08	15°♊23'59	18°50'35
retrograde	9832 May 19 05:49	19°♊05'50	
evening set	9832 May 22 13:55	18°♊01'43	
inferior conj	9832 May 28 03:31	12°♊20'21	3°17'01
minimum elong	9832 May 28 04:16	12°♊18'00	3°16'37
min. Earth dist.	9832 May 29 22:12	10°♊07'01	0.65870 AU
morning rise	9832 Jun 02 17:58	6°♊00'29	
direct	9832 Jun 09 04:04	3°♊15'18	
desc. node	9832 Jun 13 00:29	4°♊05'19	
morning max el	9832 Jun 22 06:39	11°♊02'39	26°41'11
	9832 Jul 07 07:46	0°♋	
	9832 Jul 25 13:56	0°♌	
morning set	9832 Jul 28 03:18	4°♌46'29	
max. Earth dist.	9832 Aug 01 06:35	12°♌48'46	1.34313 AU
superior conj	9832 Aug 05 21:37	22°♌13'40	0°00'20
minimum elong	9832 Aug 05 21:37	22°♌13'40	0°00'04
behind sun begin	9832 Aug 05 15:58	21°♌44'20	
behind sun end	9832 Aug 06 03:16	22°♌43'03	
asc. node	9832 Aug 05 20:49	22°♌09'28	
	9832 Aug 09 14:33	0°♍	
evening rise	9832 Aug 13 08:27	7°♍53'33	
	9832 Aug 25 03:03	0°♎	
evening max el	9832 Sep 01 20:09	9°♎52'25	21°11'44
desc. node	9832 Sep 08 22:58	14°♎50'11	
retrograde	9832 Sep 13 18:44	15°♎47'40	
evening set	9832 Sep 16 04:55	15°♎33'59	
inferior conj	9832 Sep 25 08:53	11°♎38'00	-4°34'52
minimum elong	9832 Sep 24 23:13	11°♎51'37	4°32'23
min. Earth dist.	9832 Sep 25 18:27	11°♎24'33	0.54632 AU
morning rise	9832 Oct 03 18:01	7°♎45'25	
direct	9832 Oct 07 14:25	7°♎13'28	
morning max el	9832 Oct 20 08:55	13°♎19'22	22°37'56
asc. node	9832 Nov 01 21:02	0°♏00'36	
	9832 Nov 01 20:54	0°♏	
morning set	9832 Nov 11 14:12	18°♏52'03	
	9832 Nov 16 18:57	0°♐	
superior conj	9832 Nov 18 14:45	3°♐54'22	1°39'38
minimum elong	9832 Nov 18 15:19	3°♐57'24	1°39'57
max. Earth dist.	9832 Nov 21 23:40	10°♐59'44	1.33920 AU
evening rise	9832 Nov 26 14:10	20°♐16'22	
	9832 Dec 01 17:56	0°♑	
desc. node	9832 Dec 05 21:18	7°♑17'20	
	9832 Dec 20 21:20	0°♒	
evening max el	9832 Dec 31 07:36	12°♒00'50	27°08'48
retrograde	9833 Jan 13 17:15	19°♒22'53	
evening set	9833 Jan 20 10:22	16°♒48'29	
min. Earth dist.	9833 Jan 24 08:37	13°♒03'55	0.65215 AU
inferior conj	9833 Jan 26 13:43	10°♒35'35	-0°45'27
minimum elong	9833 Jan 26 15:03	10°♒31'50	0°44'34
asc. node	9833 Jan 28 20:20	8°♒08'43	
morning rise	9833 Feb 01 21:09	5°♒03'28	
direct	9833 Feb 04 13:22	4°♒25'16	
morning max el	9833 Feb 10 23:04	7°♒47'41	18°01'14
	9833 Feb 26 05:18	0°♓	
morning set	9833 Feb 28 23:10	4°♓30'41	
desc. node	9833 Mar 03 21:11	9°♓17'52	
superior conj	9833 Mar 15 09:14	27°♓48'36	-1°18'05
minimum elong	9833 Mar 15 00:44	27°♓14'57	1°17'02
	9833 Mar 16 18:30	0°♈	
max. Earth dist.	9833 Mar 18 17:41	3°♈05'34	1.45427 AU
evening rise	9833 Mar 31 12:23	22°♈56'51	
	9833 Apr 05 02:23	0°♉	
greatest brilliancy	9833 Apr 14 03:07	13°♉40'49	-0.7m
evening max el	9833 Apr 25 19:49	29°♉04'14	19°38'46
asc. node	9833 Apr 26 18:38	29°♉59'26	
	9833 Apr 26 18:53	0°♊	
retrograde	9833 May 03 03:29	3°♊14'26	
evening set	9833 May 06 20:08	1°♊54'51	
	9833 May 08 23:02	30°℞♉	
inferior conj	9833 May 12 05:07	25°♉58'56	3°18'38
minimum elong	9833 May 12 04:41	26°♉00'22	3°18'19
min. Earth dist.	9833 May 13 08:53	24°♉26'43	0.67214 AU
morning rise	9833 May 17 12:53	19°♉39'37	

direct	9833 May 23	12:45	17°♉00'05	
desc. node	9833 May 30	21:29	20°♉01'42	
morning max el	9833 Jun 04	16:35	24°♉17'22	25°26'00
	9833 Jun 09	19:26	0°♊	
	9833 Jun 30	17:57	0°♋	
morning set	9833 Jul 10	18:14	17°♋09'23	
max. Earth dist.	9833 Jul 14	09:52	23°♋53'24	1.36187 AU
	9833 Jul 17	14:36	0°♌	
superior conj	9833 Jul 20	12:21	5°♌43'09	-0°31'15
minimum elong	9833 Jul 20	14:16	5°♌52'47	0°31'13
asc. node	9833 Jul 23	17:45	12°♌13'08	
evening rise	9833 Jul 28	14:24	22°♌08'39	
	9833 Aug 01	12:46	0°♍	
evening max el	9833 Aug 15	03:01	20°♍53'44	19°54'11
retrograde	9833 Aug 25	09:22	25°♍58'55	
desc. node	9833 Aug 26	20:10	25°♍53'15	
evening set	9833 Aug 27	06:38	25°♍49'23	
inferior conj	9833 Sep 05	05:42	21°♍48'46	-2°51'39
minimum elong	9833 Sep 04	22:02	22°♍00'26	2°48'58
min. Earth dist.	9833 Sep 07	04:36	20°♍37'33	0.55135 AU
morning rise	9833 Sep 13	11:51	17°♍32'15	
direct	9833 Sep 18	03:13	16°♍45'10	
morning max el	9833 Oct 01	20:52	23°♍31'48	24°24'53
	9833 Oct 07	17:02	0°♎	
asc. node	9833 Oct 19	17:57	18°♎54'49	
	9833 Oct 25	08:14	0°♏	
morning set	9833 Oct 27	02:01	3°♏40'28	
superior conj	9833 Nov 02	22:41	18°♏37'00	1°39'32
minimum elong	9833 Nov 02	22:05	18°♏33'45	1°39'47
max. Earth dist.	9833 Nov 05	00:12	23°♏05'49	1.32656 AU
	9833 Nov 08	06:10	0°♐	
evening rise	9833 Nov 10	07:36	4°♐14'44	
desc. node	9833 Nov 22	18:23	27°♐13'55	
	9833 Nov 24	11:03	0°♑	
evening max el	9833 Dec 13	19:38	25°♑15'01	27°29'49
	9833 Dec 19	18:56	0°♒	
retrograde	9833 Dec 27	12:36	2°♒34'36	
evening set	9834 Jan 03	12:27	0°♒05'07	
	9834 Jan 03	15:19	30°℞♑	
min. Earth dist.	9834 Jan 07	06:38	26°♑51'31	0.63486 AU
inferior conj	9834 Jan 09	22:47	24°♑10'03	-1°54'32
minimum elong	9834 Jan 10	02:28	24°♑00'45	1°52'40
asc. node	9834 Jan 15	17:26	19°♑21'56	
morning rise	9834 Jan 16	18:29	18°♑53'19	
direct	9834 Jan 19	03:41	18°♑25'46	
morning max el	9834 Jan 25	16:35	21°♑48'13	17°47'49
	9834 Feb 01	00:30	0°♒	
morning set	9834 Feb 11	02:04	16°♒49'00	
desc. node	9834 Feb 18	18:03	29°♒53'52	
	9834 Feb 18	19:30	0°♓	
superior conj	9834 Feb 23	13:18	7°♓52'05	-0°35'08
minimum elong	9834 Feb 23	09:33	7°♓36'41	0°34'25
max. Earth dist.	9834 Mar 01	12:27	17°♓30'16	1.44547 AU
	9834 Mar 09	11:50	0°♈	
evening rise	9834 Mar 10	23:49	2°♈18'33	
	9834 Mar 29	16:11	0°♉	
evening max el	9834 Apr 08	20:59	12°♉45'54	20°41'18
asc. node	9834 Apr 13	15:48	16°♉35'25	
retrograde	9834 Apr 17	02:08	17°♉33'35	
evening set	9834 Apr 21	04:14	15°♉58'22	
inferior conj	9834 Apr 26	11:15	9°♉49'37	3°08'05
minimum elong	9834 Apr 26	09:53	9°♉54'21	3°07'41
min. Earth dist.	9834 Apr 27	01:03	9°♉02'06	0.68101 AU
morning rise	9834 May 01	15:19	3°♉33'10	
direct	9834 May 07	02:29	1°♉07'48	
desc. node	9834 May 17	18:26	7°♉22'29	
morning max el	9834 May 18	01:58	7°♉41'22	23°58'45
	9834 Jun 04	12:07	0°♊	
morning set	9834 Jun 22	13:04	28°♊34'37	
	9834 Jun 23	08:53	0°♋	
max. Earth dist.	9834 Jun 26	07:15	5°♋08'27	1.38380 AU
superior conj	9834 Jul 03	14:37	18°♋34'35	-1°04'08
minimum elong	9834 Jul 03	18:48	18°♋54'29	1°03'48
	9834 Jul 09	12:14	0°♌	
asc. node	9834 Jul 10	14:42	2°♌10'10	
evening rise	9834 Jul 12	13:53	6°♌02'14	
	9834 Jul 26	13:25	0°♍	
evening max el	9834 Jul 28	22:47	2°♍40'11	18°57'21
retrograde	9834 Aug 06	14:34	6°♍58'39	
evening set	9834 Aug 08	12:24	6°♍46'53	
desc. node	9834 Aug 13	17:22	4°♍33'13	
inferior conj	9834 Aug 16	19:06	2°♍30'17	-0°57'02
minimum elong	9834 Aug 16	16:41	2°♍34'33	0°56'17
min. Earth dist.	9834 Aug 19	18:42	0°♍25'15	0.56499 AU
	9834 Aug 20	09:53	30°℞♌	
morning rise	9834 Aug 24	17:46	27°♌37'09	
direct	9834 Aug 30	04:24	26°♌27'01	
	9834 Sep 08	21:18	0°♍	
morning max el	9834 Sep 13	10:04	3°♍46'32	26°03'02
	9834 Oct 02	05:38	0°♎	
asc. node	9834 Oct 06	14:50	8°♎15'35	
morning set	9834 Oct 11	13:02	18°♎23'27	
	9834 Oct 16	20:31	0°♏	
superior conj	9834 Oct 18	09:29	3°♏24'54	1°33'28
minimum elong	9834 Oct 18	07:58	3°♏16'28	1°33'33
max. Earth dist.	9834 Oct 19	06:52	5°♏23'12	1.31850 AU
evening rise	9834 Oct 25	08:56	18°♏32'39	
	9834 Oct 31	02:07	0°♐	
desc. node	9834 Nov 09	15:28	16°♐41'30	
	9834 Nov 19	00:28	0°♑	
evening max el	9834 Nov 26	03:42	7°♑52'33	27°19'33
retrograde	9834 Dec 10	00:19	15°♑06'17	
evening set	9834 Dec 17	01:07	12°♑50'39	
min. Earth dist.	9834 Dec 20	18:08	10°♑01'54	0.61502 AU
inferior conj	9834 Dec 23	19:12	7°♑19'12	-3°07'59
minimum elong	9834 Dec 24	01:23	7°♑05'24	3°05'22
morning rise	9834 Dec 31	04:06	2°♑21'17	
direct	9835 Jan 02	08:51	2°♑00'49	
asc. node	9835 Jan 02	14:31	2°♑01'03	
morning max el	9835 Jan 09	08:45	5°♑32'37	17°52'27
morning set	9835 Jan 25	01:06	0°♒03'51	
	9835 Jan 25	00:15	0°♒	
superior conj	9835 Feb 04	18:28	19°♒07'26	0°06'26
minimum elong	9835 Feb 04	19:04	19°♒10'00	0°06'37
behind sun begin	9835 Feb 04	11:20	18°♒36'41	
behind sun end	9835 Feb 05	02:47	19°♒43'15	
desc. node	9835 Feb 05	14:53	20°♒35'04	
	9835 Feb 11	05:32	0°♓	
max. Earth dist.	9835 Feb 12	03:26	1°♓29'52	1.43037 AU
evening rise	9835 Feb 18	17:51	12°♓04'03	
	9835 Mar 02	13:22	0°♈	
evening max el	9835 Mar 22	16:41	26°♈28'27	21°54'52
	9835 Mar 26	18:25	0°♉	
retrograde	9835 Mar 31	23:58	1°♉58'37	
asc. node	9835 Mar 31	12:57	1°♉57'34	
evening set	9835 Apr 05	12:29	0°♉08'04	
	9835 Apr 05	16:19	30°℞♈	
inferior conj	9835 Apr 10	19:46	23°♈48'52	2°47'05

minimum elong	9835 Apr 10 17:46	23°♈55'49	2°46'31
min. Earth dist.	9835 Apr 10 20:38	23°♈45'51	0.68527 AU
morning rise	9835 Apr 15 22:54	17°♈36'48	
direct	9835 Apr 20 20:25	15°♈30'51	
morning max el	9835 Apr 30 13:01	21°♈13'27	22°29'14
desc. node	9835 May 04 15:20	25°♈44'44	
	9835 May 08 01:34	0°♉	
	9835 May 28 18:14	0°♊	
morning set	9835 Jun 03 06:51	8°♊50'34	
max. Earth dist.	9835 Jun 08 05:13	17°♊02'23	1.40650 AU
	9835 Jun 15 15:39	0°♋	
superior conj	9835 Jun 16 00:13	0°♋38'28	-1°35'17
minimum elong	9835 Jun 16 06:12	1°♋05'26	1°34'56
evening rise	9835 Jun 26 03:37	19°♋26'10	
asc. node	9835 Jun 27 11:41	21°♋56'49	
	9835 Jul 01 20:36	0°♌	
evening max el	9835 Jul 12 04:23	15°♌07'13	18°21'30
retrograde	9835 Jul 19 14:49	18°♌51'16	
evening set	9835 Jul 21 19:04	18°♌32'51	
inferior conj	9835 Jul 29 06:14	13°♌56'15	0°42'00
minimum elong	9835 Jul 29 07:39	13°♌53'18	0°41'10
desc. node	9835 Jul 31 14:32	12°♌00'00	
min. Earth dist.	9835 Aug 01 15:00	11°♌11'12	0.58471 AU
morning rise	9835 Aug 05 16:47	8°♌27'19	
direct	9835 Aug 11 20:10	6°♌47'33	
morning max el	9835 Aug 26 05:24	14°♌31'08	27°15'43
	9835 Sep 07 16:05	0°♍	
asc. node	9835 Sep 23 11:42	27°♍55'46	
	9835 Sep 24 11:52	0°♎	
morning set	9835 Sep 25 21:35	2°♎56'33	
superior conj	9835 Oct 02 21:16	18°♎12'30	1°21'53
minimum elong	9835 Oct 02 19:10	18°♎00'51	1°21'44
max. Earth dist.	9835 Oct 02 16:20	17°♎45'03	1.31517 AU
	9835 Oct 08 05:32	0°♏	
evening rise	9835 Oct 09 15:44	3°♏03'44	
	9835 Oct 23 23:05	0°♐	
desc. node	9835 Oct 27 12:36	5°♐28'50	
evening max el	9835 Nov 08 05:13	19°♐42'40	26°35'15
retrograde	9835 Nov 22 03:28	26°♐49'57	
evening set	9835 Nov 28 20:16	24°♐58'25	
min. Earth dist.	9835 Dec 02 19:01	22°♐22'46	0.59391 AU
inferior conj	9835 Dec 05 23:29	19°♐54'05	-4°19'34
minimum elong	9835 Dec 06 07:15	19°♐38'58	4°17'02
morning rise	9835 Dec 13 20:49	15°♐17'48	
direct	9835 Dec 16 00:43	15°♐01'04	
asc. node	9835 Dec 20 11:34	16°♐16'07	
morning max el	9835 Dec 23 20:03	18°♐51'36	18°16'29
	9835 Dec 31 22:49	0°♑	
morning set	9836 Jan 08 14:26	13°♑57'58	
	9836 Jan 17 03:32	0°♒	
superior conj	9836 Jan 17 22:57	1°♒28'32	0°41'22
minimum elong	9836 Jan 18 01:44	1°♒41'14	0°41'19
desc. node	9836 Jan 23 11:43	11°♒17'57	
max. Earth dist.	9836 Jan 25 13:10	14°♒50'12	1.41080 AU
evening rise	9836 Jan 30 05:46	22°♒39'19	
	9836 Feb 03 19:44	0°♓	
	9836 Feb 24 14:12	0°♈	
evening max el	9836 Mar 04 08:18	10°♈13'00	23°14'33
retrograde	9836 Mar 14 19:22	16°♈24'15	
asc. node	9836 Mar 17 10:08	15°♈51'03	
evening set	9836 Mar 19 19:18	14°♈19'19	
min. Earth dist.	9836 Mar 24 17:26	8°♈31'44	0.68518 AU
inferior conj	9836 Mar 25 04:40	7°♈52'56	2°16'31
minimum elong	9836 Mar 25 02:27	8°♈00'34	2°15'51
morning rise	9836 Mar 30 09:33	1°♈46'29	
direct	9836 Apr 03 17:29	0°♈02'15	
morning max el	9836 Apr 12 04:53	4°♈54'56	21°05'39
desc. node	9836 Apr 20 12:10	14°♈51'03	
	9836 May 01 04:13	0°♉	
morning set	9836 May 12 22:05	17°♉54'31	
	9836 May 20 11:33	0°♊	
max. Earth dist.	9836 May 20 08:31	29°♉47'38	1.42723 AU
superior conj	9836 May 27 12:30	11°♊44'02	-2°00'07
minimum elong	9836 May 27 18:12	12°♊08'20	2°00'05
	9836 Jun 06 22:32	0°♋	
evening rise	9836 Jun 08 03:20	2°♋09'09	
asc. node	9836 Jun 13 08:41	11°♋27'42	
evening max el	9836 Jun 24 15:49	28°♋04'41	18°05'39
	9836 Jun 26 23:12	0°♌	
retrograde	9836 Jul 01 08:10	1°♌29'28	
evening set	9836 Jul 03 20:16	1°♌00'48	
	9836 Jul 05 20:13	30°℞♋	
inferior conj	9836 Jul 10 13:47	26°♋04'10	1°55'08
minimum elong	9836 Jul 10 16:36	25°♋57'25	1°53'56
min. Earth dist.	9836 Jul 13 19:03	23°♋01'15	0.60723 AU
morning rise	9836 Jul 17 10:14	20°♋09'05	
desc. node	9836 Jul 17 11:41	20°♋06'44	
direct	9836 Jul 24 00:28	17°♋59'45	
morning max el	9836 Aug 07 07:30	25°♋57'47	27°52'39
	9836 Aug 11 01:39	0°♌	
	9836 Aug 31 04:46	0°♍	
morning set	9836 Sep 09 01:52	17°♍14'14	
asc. node	9836 Sep 09 08:34	17°♍49'02	
max. Earth dist.	9836 Sep 15 00:57	0°♎01'28	1.31663 AU
	9836 Sep 15 00:41	0°♎	
superior conj	9836 Sep 16 08:13	2°♎53'59	1°05'06
minimum elong	9836 Sep 16 05:59	2°♎41'39	1°04'44
evening rise	9836 Sep 23 01:51	17°♎41'44	
	9836 Sep 29 01:36	0°♏	
desc. node	9836 Oct 13 09:47	23°♏20'12	
	9836 Oct 19 05:24	0°♐	
evening max el	9836 Oct 19 22:50	0°♐42'20	25°19'50
retrograde	9836 Nov 02 20:10	7°♐42'01	
evening set	9836 Nov 08 17:09	6°♐23'06	
min. Earth dist.	9836 Nov 13 10:56	3°♐43'40	0.57371 AU
inferior conj	9836 Nov 16 08:32	1°♐46'01	-5°17'20
minimum elong	9836 Nov 16 14:52	1°♐35'17	5°15'59
	9836 Nov 19 01:28	30°℞♏	
morning rise	9836 Nov 24 14:54	27°♏32'05	
direct	9836 Nov 26 23:13	27°♏15'42	
	9836 Dec 04 03:00	0°♐	
morning max el	9836 Dec 05 22:41	1°♐34'37	19°01'43
asc. node	9836 Dec 06 08:36	1°♐58'58	
morning set	9836 Dec 22 13:40	28°♐18'52	
	9836 Dec 23 10:07	0°♑	
superior conj	9836 Dec 30 22:04	14°♑42'13	1°07'59
minimum elong	9836 Dec 31 01:13	14°♑57'21	1°07'57
max. Earth dist.	9837 Jan 06 19:29	27°♑29'23	1.38906 AU
	9837 Jan 08 05:23	0°♒	
desc. node	9837 Jan 09 08:38	1°♒59'21	
evening rise	9837 Jan 10 15:29	4°♒12'51	
	9837 Jan 26 22:35	0°♓	
evening max el	9837 Feb 14 22:04	24°♓01'30	24°34'04
	9837 Feb 22 23:18	0°♈	
retrograde	9837 Feb 26 11:04	0°♈46'09	
	9837 Mar 01 16:35	30°℞♓	
evening set	9837 Mar 03 23:10	28°♓28'24	
asc. node	9837 Mar 04 07:20	28°♓10'30	

min. Earth dist.	9837 Mar 08	13:12	23°♓15'40	0.68098 AU
inferior conj	9837 Mar 09	12:10	21°♓59'02	1°36'51
minimum elong	9837 Mar 09	10:12	22°♓05'35	1°36'15
morning rise	9837 Mar 14	21:22	15°♓59'38	
direct	9837 Mar 18	16:31	14°♓37'01	
morning max el	9837 Mar 26	04:10	18°♓48'29	19°53'52
	9837 Apr 04	05:16	0°♈	
desc. node	9837 Apr 07	09:00	4°♈29'46	
morning set	9837 Apr 21	21:06	26°♈18'45	
	9837 Apr 24	06:23	0°♉	
max. Earth dist.	9837 May 02	19:11	13°♉23'19	1.44351 AU
superior conj	9837 May 08	00:28	21°♉46'33	-2°12'24
minimum elong	9837 May 08	01:48	21°♉51'59	2°12'42
	9837 May 13	00:45	0°♊	
evening rise	9837 May 21	08:15	14°♊00'38	
	9837 May 30	20:27	0°♋	
asc. node	9837 May 31	05:45	0°♋37'04	
evening max el	9837 Jun 08	05:31	11°♋23'19	18°08'50
retrograde	9837 Jun 14	14:30	14°♋43'51	
evening set	9837 Jun 17	10:25	14°♋02'24	
inferior conj	9837 Jun 23	14:01	8°♋47'00	2°42'55
minimum elong	9837 Jun 23	16:33	8°♋40'10	2°41'59
min. Earth dist.	9837 Jun 26	07:58	5°♋49'43	0.62943 AU
morning rise	9837 Jun 29	20:59	2°♋36'20	
desc. node	9837 Jul 04	08:48	0°♋20'58	
direct	9837 Jul 06	14:38	0°♋04'38	
morning max el	9837 Jul 20	14:52	8°♋07'16	27°51'15
	9837 Aug 06	11:01	0°♌	
	9837 Aug 23	09:38	0°♍	
morning set	9837 Aug 23	23:42	1°♍10'39	
asc. node	9837 Aug 27	05:26	7°♍50'36	
max. Earth dist.	9837 Aug 29	04:59	12°♍02'28	1.32304 AU
superior conj	9837 Aug 31	16:29	17°♍23'38	0°43'25
minimum elong	9837 Aug 31	14:39	17°♍13'37	0°42'56
	9837 Sep 06	11:10	0°♎	
evening rise	9837 Sep 07	13:22	2°♎21'00	
	9837 Sep 22	11:24	0°♏	
desc. node	9837 Sep 30	07:01	9°♏53'33	
evening max el	9837 Oct 01	10:23	11°♏02'02	23°43'55
retrograde	9837 Oct 14	23:59	17°♏48'37	
evening set	9837 Oct 19	13:27	17°♏03'15	
min. Earth dist.	9837 Oct 25	20:41	14°♏01'38	0.55735 AU
inferior conj	9837 Oct 27	21:14	12°♏49'06	-5°42'34
minimum elong	9837 Oct 27	21:28	12°♏48'46	5°42'19
morning rise	9837 Nov 05	07:24	8°♏54'17	
direct	9837 Nov 08	02:33	8°♏34'43	
morning max el	9837 Nov 18	13:04	13°♏30'36	20°09'38
asc. node	9837 Nov 23	05:35	18°♏53'37	
	9837 Nov 30	04:24	0°♐	
morning set	9837 Dec 06	19:21	12°♐55'57	
superior conj	9837 Dec 14	10:56	28°♐34'01	1°26'14
minimum elong	9837 Dec 14	13:23	28°♐46'20	1°26'23
	9837 Dec 15	04:05	0°♑	
max. Earth dist.	9837 Dec 20	02:24	9°♑36'34	1.36759 AU
evening rise	9837 Dec 23	21:22	16°♑38'33	
desc. node	9837 Dec 27	05:36	22°♑34'47	
	9837 Dec 31	14:44	0°♒	
	9838 Jan 21	09:26	0°♓	
evening max el	9838 Jan 28	11:27	7°♓50'43	25°46'29
retrograde	9838 Feb 09	22:01	14°♓58'06	
evening set	9838 Feb 15	22:27	12°♓30'08	
asc. node	9838 Feb 19	04:31	9°♓09'08	
min. Earth dist.	9838 Feb 20	05:39	7°♓52'16	0.67279 AU
inferior conj	9838 Feb 21	16:19	6°♓02'40	0°48'20
minimum elong	9838 Feb 21	15:08	6°♓06'24	0°48'04
morning rise	9838 Feb 27	08:21	0°♓12'14	
	9838 Feb 27	16:30	30°♑℞	
direct	9838 Mar 02	15:51	29°♒09'23	
	9838 Mar 05	18:04	0°♓	
morning max el	9838 Mar 09	11:15	2°♓52'01	18°57'09
greatest brilliancy	9838 Mar 23	09:53	21°♓43'38	-0.8m
desc. node	9838 Mar 25	05:49	24°♓31'47	
	9838 Mar 28	18:52	0°♈	
morning set	9838 Apr 01	02:49	5°♈10'12	
max. Earth dist.	9838 Apr 15	11:50	27°♈35'27	1.45345 AU
	9838 Apr 17	00:38	0°♉	
superior conj	9838 Apr 17	14:47	0°♉55'42	-2°06'09
minimum elong	9838 Apr 17	08:51	0°♉32'17	2°06'03
evening rise	9838 May 02	14:15	24°♉53'17	
	9838 May 05	17:41	0°♊	
asc. node	9838 May 18	02:51	19°♊17'31	
evening max el	9838 May 22	18:16	24°♊54'46	18°30'19
retrograde	9838 May 29	05:36	28°♊25'09	
evening set	9838 Jun 01	09:12	27°♊29'26	
inferior conj	9838 Jun 07	02:51	21°♊56'53	3°09'34
minimum elong	9838 Jun 07	04:19	21°♊52'30	3°09'01
min. Earth dist.	9838 Jun 09	06:10	19°♊23'59	0.64905 AU
morning rise	9838 Jun 12	22:31	15°♊38'46	
direct	9838 Jun 19	12:48	12°♊55'31	
desc. node	9838 Jun 21	05:52	13°♊05'20	
morning max el	9838 Jul 03	01:08	20°♊51'54	27°15'09
	9838 Jul 10	22:21	0°♋	
	9838 Jul 30	14:07	0°♌	
morning set	9838 Aug 07	12:28	14°♌38'57	
max. Earth dist.	9838 Aug 12	00:55	23°♌40'40	1.33441 AU
asc. node	9838 Aug 14	02:19	27°♌56'23	
	9838 Aug 15	01:53	0°♍	
superior conj	9838 Aug 15	20:00	1°♍35'41	0°17'14
minimum elong	9838 Aug 15	19:08	1°♍31'09	0°16'50
evening rise	9838 Aug 23	00:24	16°♍56'08	
	9838 Aug 29	11:31	0°♎	
evening max el	9838 Sep 12	23:13	21°♎12'21	22°04'21
desc. node	9838 Sep 17	04:15	24°♎41'06	
retrograde	9838 Sep 25	16:15	27°♎31'59	
evening set	9838 Sep 28	18:31	27°♎10'39	
min. Earth dist.	9838 Oct 07	04:07	23°♎30'20	0.54783 AU
inferior conj	9838 Oct 07	18:02	23°♎10'51	-5°15'58
minimum elong	9838 Oct 07	10:32	23°♎21'21	5°14'38
morning rise	9838 Oct 16	04:04	19°♎23'34	
direct	9838 Oct 19	14:33	18°♎57'27	
morning max el	9838 Oct 31	14:05	24°♎36'35	21°39'06
	9838 Nov 05	10:23	0°♏	
asc. node	9838 Nov 10	02:32	6°♏44'51	
morning set	9838 Nov 21	04:57	27°♏42'00	
	9838 Nov 22	07:15	0°♐	
superior conj	9838 Nov 28	09:35	12°♐52'47	1°36'45
minimum elong	9838 Nov 28	10:52	12°♐59'32	1°37'03
max. Earth dist.	9838 Dec 02	14:23	21°♐30'07	1.34852 AU
evening rise	9838 Dec 06	19:56	29°♐47'26	
	9838 Dec 06	22:34	0°♑	
desc. node	9838 Dec 14	02:38	12°♑59'47	
	9838 Dec 24	18:02	0°♒	
evening max el	9839 Jan 11	00:52	21°♒34'03	26°44'33
retrograde	9839 Jan 24	03:31	28°♒53'31	
evening set	9839 Jan 30	15:20	26°♒19'29	
min. Earth dist.	9839 Feb 03	16:31	22°♒16'08	0.66077 AU
inferior conj	9839 Feb 05	15:00	19°♒59'35	-0°08'50
minimum elong	9839 Feb 05	15:15	19°♒58'53	0°08'27

transit middle	9839 Feb 05 15:15	19°♒58'53	0°08'27
transit begin	9839 Feb 05 12:45	20°♒06'14	
transit end	9839 Feb 05 17:44	19°♒51'32	
asc. node	9839 Feb 06 01:41	19°♒28'16	
morning rise	9839 Feb 11 16:14	14°♒20'17	
direct	9839 Feb 14 13:33	13°♒34'10	
morning max el	9839 Feb 21 00:34	17°♒00'33	18°16'47
	9839 Mar 02 18:18	0°♓	
morning set	9839 Mar 12 09:56	15°♓20'08	
desc. node	9839 Mar 12 02:38	14°♓50'51	
	9839 Mar 21 14:46	0°♈	
superior conj	9839 Mar 27 20:27	9°♈48'39	-1°39'57
minimum elong	9839 Mar 27 10:53	9°♈11'09	1°39'04
max. Earth dist.	9839 Mar 29 07:25	12°♈05'32	1.45610 AU
	9839 Apr 09 18:37	0°♉	
evening rise	9839 Apr 12 20:58	4°♉50'36	
greatest brilliancy	9839 Apr 23 21:30	21°♉58'38	-0.8m
	9839 Apr 29 07:30	0°♊	
asc. node	9839 May 04 23:59	7°♊19'14	
evening max el	9839 May 06 03:34	8°♊32'23	19°09'09
retrograde	9839 May 13 01:45	12°♊25'16	
evening set	9839 May 16 13:24	11°♊14'31	
inferior conj	9839 May 22 00:39	5°♊26'30	3°19'22
minimum elong	9839 May 22 00:53	5°♊25'45	3°19'01
min. Earth dist.	9839 May 23 12:48	3°♊30'07	0.66489 AU
	9839 May 26 13:16	30°℞♉	
morning rise	9839 May 27 11:52	29°♉06'23	
direct	9839 Jun 02 17:51	26°♉22'42	
desc. node	9839 Jun 08 02:53	28°♉00'00	
	9839 Jun 11 01:55	0°♊	
morning max el	9839 Jun 15 11:48	3°♊59'18	26°11'29
	9839 Jul 05 07:08	0°♋	
morning set	9839 Jul 21 12:33	27°♋28'45	
	9839 Jul 22 20:50	0°♌	
max. Earth dist.	9839 Jul 25 10:15	4°♌54'08	1.35059 AU
superior conj	9839 Jul 30 16:10	15°♌22'17	-0°12'46
minimum elong	9839 Jul 30 16:55	15°♌26'07	0°12'55
behind sun begin	9839 Jul 30 13:18	15°♌07'41	
behind sun end	9839 Jul 30 20:31	15°♌44'34	
asc. node	9839 Jul 31 23:13	18°♌01'37	
	9839 Aug 06 17:23	0°♍	
evening rise	9839 Aug 07 08:49	1°♍19'58	
	9839 Aug 24 05:22	0°♎	
evening max el	9839 Aug 25 22:05	1°♎48'08	20°36'18
desc. node	9839 Sep 04 01:29	7°♎11'46	
retrograde	9839 Sep 06 04:25	7°♎23'21	
evening set	9839 Sep 08 06:50	7°♎12'30	
inferior conj	9839 Sep 17 10:33	3°♎15'52	-3°54'45
minimum elong	9839 Sep 17 00:57	3°♎29'42	3°51'48
min. Earth dist.	9839 Sep 18 12:46	2°♎38'03	0.54729 AU
	9839 Sep 23 16:14	30°℞♍	
morning rise	9839 Sep 25 18:47	29°♍15'22	
direct	9839 Sep 29 22:47	28°♍38'08	
	9839 Oct 05 23:58	0°♎	
morning max el	9839 Oct 13 04:59	5°♎02'08	23°23'23
asc. node	9839 Oct 27 23:26	25°♎18'56	
	9839 Oct 30 12:21	0°♏	
morning set	9839 Nov 05 16:26	12°♏30'41	
superior conj	9839 Nov 12 14:51	27°♏28'50	1°40'20
minimum elong	9839 Nov 12 14:54	27°♏29'08	1°40'39
	9839 Nov 13 19:00	0°♐	
max. Earth dist.	9839 Nov 15 10:05	3°♐27'38	1.33325 AU
evening rise	9839 Nov 20 07:24	13°♐29'56	
	9839 Nov 29 03:42	0°♑	
desc. node	9839 Nov 30 23:42	3°♑08'39	
	9839 Dec 19 19:05	0°♒	
evening max el	9839 Dec 24 13:40	5°♒01'43	27°21'08
retrograde	9840 Jan 07 03:01	12°♒24'06	
evening set	9840 Jan 13 23:37	9°♒50'25	
min. Earth dist.	9840 Jan 17 19:46	6°♒19'47	0.64516 AU
inferior conj	9840 Jan 20 05:51	3°♒44'15	-1°13'59
minimum elong	9840 Jan 20 08:08	3°♒38'08	1°12'42
asc. node	9840 Jan 23 22:49	0°♒06'21	
	9840 Jan 24 01:55	30°℞♑	
morning rise	9840 Jan 26 18:22	28°♑18'38	
direct	9840 Jan 29 07:15	27°♑45'32	
	9840 Feb 03 12:01	0°♒	
morning max el	9840 Feb 04 17:29	1°♒06'48	17°53'24
morning set	9840 Feb 21 22:12	26°♒56'15	
	9840 Feb 23 18:05	0°♓	
desc. node	9840 Feb 26 23:28	5°♓22'06	
superior conj	9840 Mar 06 12:23	19°♓16'55	-1°00'12
minimum elong	9840 Mar 06 05:41	18°♓50'06	0°59'13
max. Earth dist.	9840 Mar 11 02:51	26°♓35'52	1.45131 AU
	9840 Mar 13 06:48	0°♈	
evening rise	9840 Mar 22 11:29	14°♈14'57	
	9840 Apr 01 20:27	0°♉	
greatest brilliancy	9840 Apr 06 09:48	6°♉44'11	-0.6m
evening max el	9840 Apr 18 07:53	22°♉13'17	20°03'46
asc. node	9840 Apr 20 21:08	24°♉30'53	
retrograde	9840 Apr 26 00:12	26°♉39'03	
evening set	9840 Apr 29 20:38	25°♉12'57	
inferior conj	9840 May 05 04:28	19°♉11'12	3°15'33
minimum elong	9840 May 05 03:36	19°♉14'09	3°15'12
min. Earth dist.	9840 May 06 02:11	17°♉57'41	0.67641 AU
morning rise	9840 May 10 10:17	12°♉52'36	
direct	9840 May 16 04:52	10°♉18'12	
desc. node	9840 May 24 23:50	14°♉35'32	
morning max el	9840 May 27 21:29	17°♉19'14	24°49'46
	9840 Jun 07 11:16	0°♊	
	9840 Jun 27 07:15	0°♋	
morning set	9840 Jul 02 19:34	9°♋28'57	
max. Earth dist.	9840 Jul 06 09:57	15°♋58'00	1.37089 AU
superior conj	9840 Jul 13 01:59	28°♋36'19	-0°45'12
minimum elong	9840 Jul 13 04:52	28°♋50'23	0°45'01
	9840 Jul 13 19:05	0°♌	
asc. node	9840 Jul 17 20:09	8°♌02'51	
evening rise	9840 Jul 21 12:20	15°♌26'29	
	9840 Jul 29 02:49	0°♍	
evening max el	9840 Aug 07 10:40	13°♍08'39	19°27'27
retrograde	9840 Aug 17 00:05	17°♍52'52	
evening set	9840 Aug 18 20:12	17°♍43'07	
desc. node	9840 Aug 20 22:40	17°♍09'40	
inferior conj	9840 Aug 27 13:15	13°♍36'58	-2°02'28
minimum elong	9840 Aug 27 07:45	13°♍45'49	2°00'30
min. Earth dist.	9840 Aug 30 00:41	12°♍01'33	0.55619 AU
morning rise	9840 Sep 04 16:47	9°♍05'12	
direct	9840 Sep 09 16:22	8°♍09'09	
morning max el	9840 Sep 23 16:39	15°♍11'48	25°08'43
	9840 Oct 05 12:14	0°♎	
asc. node	9840 Oct 13 20:19	14°♎25'13	
morning set	9840 Oct 20 04:04	27°♎17'07	
	9840 Oct 21 10:21	0°♏	
superior conj	9840 Oct 27 00:14	12°♏14'36	1°37'39
minimum elong	9840 Oct 26 23:12	12°♏08'57	1°37'51
max. Earth dist.	9840 Oct 28 13:16	15°♏37'40	1.32252 AU
evening rise	9840 Nov 03 04:31	27°♏37'31	
	9840 Nov 04 08:24	0°♐	

desc. node	9840 Nov 16	20:48	22°♐54'07	
	9840 Nov 21	10:01	0°♑	
evening max el	9840 Dec 06	00:14	18°♑01'46	27°29'34
retrograde	9840 Dec 19	19:32	25°♑19'55	
evening set	9840 Dec 26	20:28	22°♑55'09	
min. Earth dist.	9840 Dec 30	13:35	19°♑52'59	0.62660 AU
inferior conj	9841 Jan 02	09:57	17°♑09'09	-2°25'28
minimum elong	9841 Jan 02	14:43	16°♑57'42	2°23'14
morning rise	9841 Jan 09	11:14	12°♑00'03	
asc. node	9841 Jan 09	19:55	11°♑53'08	
direct	9841 Jan 11	18:01	11°♑36'05	
morning max el	9841 Jan 18	10:50	15°♑01'46	17°47'28
	9841 Jan 28	21:14	0°♒	
morning set	9841 Feb 03	10:29	9°♒41'05	
desc. node	9841 Feb 12	20:17	26°♒00'44	
superior conj	9841 Feb 15	02:56	29°♒50'47	-0°16'58
minimum elong	9841 Feb 15	01:15	29°♒43'45	0°16'28
	9841 Feb 15	05:08	0°♓	
max. Earth dist.	9841 Feb 21	19:43	10°♓49'56	1.43969 AU
evening rise	9841 Mar 01	23:54	23°♓42'33	
	9841 Mar 06	02:28	0°♈	
	9841 Mar 27	02:51	0°♉	
evening max el	9841 Apr 01	06:38	5°♉55'30	21°11'34
asc. node	9841 Apr 07	18:19	10°♉37'29	
retrograde	9841 Apr 09	22:39	11°♉01'05	
evening set	9841 Apr 14	04:58	9°♉19'30	
inferior conj	9841 Apr 19	11:52	3°♉06'09	3°00'23
minimum elong	9841 Apr 19	10:11	3°♉11'59	2°59'55
min. Earth dist.	9841 Apr 19	20:08	2°♉37'26	0.68339 AU
	9841 Apr 21	18:50	30°℞♈	
morning rise	9841 Apr 24	15:11	26°♈51'14	
direct	9841 Apr 29	20:40	24°♈33'23	
	9841 May 09	12:26	0°♉	
morning max el	9841 May 10	07:00	0°♉45'52	23°20'17
desc. node	9841 May 11	20:44	2°♉24'42	
	9841 Jun 01	08:40	0°♊	
morning set	9841 Jun 14	04:12	20°♊25'43	
max. Earth dist.	9841 Jun 18	06:10	27°♊24'09	1.39353 AU
	9841 Jun 19	17:47	0°♋	
superior conj	9841 Jun 25	21:42	11°♋08'49	-1°17'48
minimum elong	9841 Jun 26	02:47	11°♋32'25	1°17'25
asc. node	9841 Jul 04	17:08	27°♋56'04	
evening rise	9841 Jul 05	08:04	29°♋08'11	
	9841 Jul 05	18:48	0°♌	
evening max el	9841 Jul 21	11:10	25°♌13'48	18°39'38
retrograde	9841 Jul 29	12:53	29°♌15'21	
evening set	9841 Jul 31	13:14	29°♌01'11	
desc. node	9841 Aug 07	19:49	25°♌06'02	
inferior conj	9841 Aug 08	11:39	24°♌36'31	-0°12'07
minimum elong	9841 Aug 08	11:09	24°♌37'26	0°12'11
transit middle	9841 Aug 08	11:09	24°♌37'26	0°12'11
transit begin	9841 Aug 08	08:46	24°♌41'55	
transit end	9841 Aug 08	13:33	24°♌32'57	
min. Earth dist.	9841 Aug 11	17:10	22°♌12'03	0.57284 AU
morning rise	9841 Aug 16	05:37	19°♌27'38	
direct	9841 Aug 22	00:13	18°♌05'04	
morning max el	9841 Sep 05	07:50	25°♌35'51	26°37'51
	9841 Sep 09	10:48	0°♍	
	9841 Sep 28	17:24	0°♎	
asc. node	9841 Sep 30	17:12	3°♎55'17	
morning set	9841 Oct 04	14:15	11°♎56'44	
superior conj	9841 Oct 11	11:41	27°♎03'34	1°29'13
minimum elong	9841 Oct 11	09:52	26°♎53'29	1°29'12
max. Earth dist.	9841 Oct 11	21:34	27°♎58'27	1.31648 AU
	9841 Oct 12	19:28	0°♏	
evening rise	9841 Oct 18	08:29	12°♏02'37	
	9841 Oct 27	12:01	0°♐	
desc. node	9841 Nov 03	17:55	12°♐06'45	
	9841 Nov 17	20:55	0°♑	
evening max el	9841 Nov 18	06:08	0°♑21'57	27°05'01
retrograde	9841 Dec 02	03:48	7°♑32'28	
evening set	9841 Dec 09	02:17	5°♑26'16	
min. Earth dist.	9841 Dec 12	20:46	2°♑44'34	0.60608 AU
inferior conj	9841 Dec 16	00:01	0°♑06'03	-3°39'07
minimum elong	9841 Dec 16	07:05	29°♐51'08	3°36'24
	9841 Dec 16	02:53	30°℞♐	
morning rise	9841 Dec 23	14:24	25°♐16'39	
direct	9841 Dec 25	18:15	24°♐58'09	
asc. node	9841 Dec 27	16:58	25°♐13'47	
morning max el	9842 Jan 02	01:23	28°♐37'03	18°00'07
	9842 Jan 03	08:47	0°♑	
morning set	9842 Jan 17	16:19	23°♑15'27	
	9842 Jan 21	08:04	0°♒	
superior conj	9842 Jan 27	18:32	11°♒35'50	0°22'12
minimum elong	9842 Jan 27	20:20	11°♒43'44	0°22'14
desc. node	9842 Jan 30	17:10	16°♒43'28	
max. Earth dist.	9842 Feb 04	08:45	24°♒35'18	1.42256 AU
	9842 Feb 07	15:56	0°♓	
evening rise	9842 Feb 10	00:45	3°♓48'11	
	9842 Feb 27	10:53	0°♈	
evening max el	9842 Mar 15	00:34	19°♈39'31	22°28'22
retrograde	9842 Mar 24	19:29	25°♈26'58	
asc. node	9842 Mar 25	15:29	25°♈23'33	
evening set	9842 Mar 29	12:47	23°♈30'14	
inferior conj	9842 Apr 03	20:47	17°♈07'47	2°35'13
minimum elong	9842 Apr 03	18:39	17°♈15'14	2°34'36
min. Earth dist.	9842 Apr 03	16:28	17°♈22'50	0.68585 AU
morning rise	9842 Apr 09	00:21	10°♈58'05	
direct	9842 Apr 13	16:09	9°♈01'04	
morning max el	9842 Apr 22	19:34	14°♈21'07	21°52'26
desc. node	9842 Apr 28	17:36	21°♈07'19	
	9842 May 05	09:20	0°♉	
morning set	9842 May 25	10:18	0°♊09'18	
	9842 May 25	07:59	0°♊	
max. Earth dist.	9842 May 31	06:20	9°♊40'42	1.41580 AU
superior conj	9842 Jun 07	22:47	22°♊49'15	-1°46'56
minimum elong	9842 Jun 08	05:02	23°♊16'43	1°46'41
	9842 Jun 11	23:33	0°♋	
evening rise	9842 Jun 18	16:22	12°♋15'59	
asc. node	9842 Jun 21	14:07	17°♋36'44	
	9842 Jun 28	18:07	0°♌	
evening max el	9842 Jul 04	19:44	7°♌55'01	18°12'21
retrograde	9842 Jul 11	20:54	11°♌28'49	
evening set	9842 Jul 14	04:35	11°♌06'17	
inferior conj	9842 Jul 21	07:48	6°♌20'44	1°16'21
minimum elong	9842 Jul 21	10:05	6°♌15'41	1°15'14
min. Earth dist.	9842 Jul 24	16:14	3°♌25'27	0.59417 AU
desc. node	9842 Jul 25	16:59	2°♌35'31	
morning rise	9842 Jul 28	12:27	0°♌39'36	
	9842 Jul 29	18:26	30°℞♋	
direct	9842 Aug 03	21:22	28°♋47'03	
	9842 Aug 09	05:10	0°♌	
morning max el	9842 Aug 18	06:01	6°♌37'00	27°36'17
	9842 Sep 04	19:08	0°♍	
asc. node	9842 Sep 17	14:03	23°♍41'42	
morning set	9842 Sep 18	21:13	26°♍23'47	
	9842 Sep 20	13:58	0°♎	
superior conj	9842 Sep 25	23:19	11°♎49'01	1°15'24

minimum elong	9842 Sep 25	21:06	11°♎36'43	1°15'08
max. Earth dist.	9842 Sep 25	07:18	10°♎20'08	1.31521 AU
evening rise	9842 Oct 02	16:56	26°♎37'26	
	9842 Oct 04	07:10	0°♏	
	9842 Oct 21	05:51	0°♐	
desc. node	9842 Oct 21	15:05	0°♐32'36	
evening max el	9842 Oct 31	04:27	11°♐50'41	26°06'35
retrograde	9842 Nov 14	02:18	18°♐54'09	
evening set	9842 Nov 20	12:27	17°♐15'44	
min. Earth dist.	9842 Nov 24	17:20	14°♐40'58	0.58509 AU
inferior conj	9842 Nov 27	20:26	12°♐23'42	-4°46'42
minimum elong	9842 Nov 28	04:05	12°♐09'39	4°44'33
morning rise	9842 Dec 05	22:09	7°♐56'53	
direct	9842 Dec 08	03:23	7°♐40'35	
asc. node	9842 Dec 14	14:00	10°♐07'38	
morning max el	9842 Dec 16	09:23	11°♐41'42	18°33'03
	9842 Dec 28	13:27	0°♑	
morning set	9843 Jan 01	10:22	7°♑22'41	
superior conj	9843 Jan 10	07:36	24°♑21'17	0°53'42
minimum elong	9843 Jan 10	10:43	24°♑35'48	0°53'37
	9843 Jan 13	09:25	0°♒	
max. Earth dist.	9843 Jan 17	17:15	7°♒40'08	1.40173 AU
desc. node	9843 Jan 17	14:04	7°♒26'21	
evening rise	9843 Jan 21	21:52	14°♒48'15	
	9843 Jan 31	10:06	0°♓	
	9843 Feb 22	09:53	0°♈	
evening max el	9843 Feb 25	15:10	3°♈26'00	23°48'43
retrograde	9843 Mar 08	13:22	9°♈52'12	
asc. node	9843 Mar 12	12:40	8°♈37'21	
evening set	9843 Mar 13	18:34	7°♈41'20	
min. Earth dist.	9843 Mar 18	13:01	2°♈08'52	0.68396 AU
inferior conj	9843 Mar 19	05:20	1°♈13'14	2°00'46
minimum elong	9843 Mar 19	03:10	1°♈20'38	2°00'06
	9843 Mar 20	02:58	30°♓	
morning rise	9843 Mar 24	11:47	25°♓09'52	
direct	9843 Mar 28	14:09	23°♓35'04	
morning max el	9843 Apr 05	14:33	28°♓08'26	20°33'26
	9843 Apr 07	08:59	0°♈	
desc. node	9843 Apr 15	14:27	10°♈28'51	
	9843 Apr 28	22:10	0°♉	
morning set	9843 May 04	16:36	8°♉50'46	
max. Earth dist.	9843 May 13	13:23	22°♉51'16	1.43485 AU
	9843 May 17	22:37	0°♊	
superior conj	9843 May 20	00:54	3°♊28'19	-2°07'15
minimum elong	9843 May 20	05:19	3°♊46'44	2°07'24
evening rise	9843 Jun 01	08:45	24°♊39'12	
	9843 Jun 04	09:51	0°♋	
asc. node	9843 Jun 08	11:10	6°♋59'47	
evening max el	9843 Jun 18	08:32	21°♋02'47	18°04'41
retrograde	9843 Jun 24	20:36	24°♋24'20	
evening set	9843 Jun 27	11:59	23°♋50'30	
inferior conj	9843 Jul 03	23:03	18°♋45'24	2°18'15
minimum elong	9843 Jul 04	01:54	18°♋38'12	2°17'08
min. Earth dist.	9843 Jul 07	00:01	15°♋42'21	0.61682 AU
morning rise	9843 Jul 10	13:33	12°♋42'16	
desc. node	9843 Jul 12	14:06	11°♋30'14	
direct	9843 Jul 17	05:54	10°♋22'34	
morning max el	9843 Jul 31	10:54	18°♋23'50	27°56'45
	9843 Aug 10	04:55	0°♌	
	9843 Aug 28	14:45	0°♍	
morning set	9843 Sep 02	23:03	10°♍33'31	
asc. node	9843 Sep 04	10:57	13°♍39'25	
max. Earth dist.	9843 Sep 08	14:36	22°♍32'08	1.31877 AU
superior conj	9843 Sep 10	09:21	26°♍26'05	0°56'29
minimum elong	9843 Sep 10	07:13	26°♍14'22	0°56'02
	9843 Sep 12	00:11	0°♎	
evening rise	9843 Sep 17	03:53	11°♎16'40	
	9843 Sep 26	13:54	0°♏	
desc. node	9843 Oct 08	12:17	17°♏53'42	
evening max el	9843 Oct 12	18:38	22°♏29'32	24°40'28
retrograde	9843 Oct 26	13:40	29°♏25'18	
evening set	9843 Oct 31	22:43	28°♏20'48	
min. Earth dist.	9843 Nov 06	05:52	25°♏34'16	0.56610 AU
inferior conj	9843 Nov 08	20:35	23°♏54'10	-5°33'16
minimum elong	9843 Nov 09	00:54	23°♏47'16	5°32'33
morning rise	9843 Nov 17	05:18	19°♏49'37	
direct	9843 Nov 19	17:30	19°♏32'21	
morning max el	9843 Nov 29	07:10	24°♏05'33	19°27'57
asc. node	9843 Dec 01	11:00	26°♏22'38	
	9843 Dec 04	06:37	0°♐	
morning set	9843 Dec 16	12:39	21°♐51'09	
	9843 Dec 20	13:50	0°♑	
superior conj	9843 Dec 24	13:06	7°♑52'46	1°16'43
minimum elong	9843 Dec 24	16:02	8°♑07'10	1°16'45
max. Earth dist.	9843 Dec 30	23:02	20°♑03'00	1.37970 AU
evening rise	9844 Jan 03	16:26	26°♑44'23	
desc. node	9844 Jan 04	11:01	28°♑05'44	
	9844 Jan 05	13:25	0°♒	
	9844 Jan 24	22:36	0°♓	
evening max el	9844 Feb 08	04:25	17°♓14'40	25°06'08
retrograde	9844 Feb 20	03:19	24°♓11'01	
evening set	9844 Feb 25	20:44	21°♓48'15	
asc. node	9844 Feb 27	09:51	20°♓19'36	
min. Earth dist.	9844 Mar 01	07:37	16°♓50'31	0.67795 AU
inferior conj	9844 Mar 02	11:39	15°♓18'50	1°17'21
minimum elong	9844 Mar 02	09:57	15°♓24'24	1°16'51
morning rise	9844 Mar 07	23:29	9°♓23'11	
direct	9844 Mar 11	13:25	8°♓09'31	
morning max el	9844 Mar 18	17:22	12°♓07'21	19°27'48
greatest brilliancy	9844 Mar 31	10:39	28°♓47'06	-0.7m
desc. node	9844 Apr 01	11:17	0°♈18'30	
	9844 Apr 01	06:19	0°♈	
morning set	9844 Apr 12	15:25	17°♈18'12	
	9844 Apr 20	19:50	0°♉	
max. Earth dist.	9844 Apr 25	02:39	6°♉43'45	1.44855 AU
superior conj	9844 Apr 29	02:45	13°♉05'21	-2°12'17
minimum elong	9844 Apr 29	01:03	12°♉58'34	2°12'30
	9844 May 09	12:14	0°♊	
evening rise	9844 May 13	04:20	6°♊06'25	
asc. node	9844 May 25	08:15	25°♊58'03	
	9844 May 28	03:48	0°♋	
evening max el	9844 May 31	22:07	4°♋27'33	18°15'46
retrograde	9844 Jun 07	07:11	7°♋50'58	
evening set	9844 Jun 10	06:14	7°♋03'46	
inferior conj	9844 Jun 16	05:10	1°♋40'58	2°56'30
minimum elong	9844 Jun 16	07:17	1°♋34'56	2°55'45
	9844 Jun 17	16:40	30°♊	
min. Earth dist.	9844 Jun 18	17:09	28°♊51'50	0.63816 AU
morning rise	9844 Jun 22	06:58	25°♊25'59	
desc. node	9844 Jun 28	11:12	22°♊48'42	
direct	9844 Jun 28	23:48	22°♊47'47	
	9844 Jul 11	23:39	0°♋	
morning max el	9844 Jul 12	19:59	0°♋50'13	27°39'42
	9844 Aug 03	07:33	0°♌	
morning set	9844 Aug 16	17:23	24°♌19'02	
	9844 Aug 19	12:49	0°♍	
asc. node	9844 Aug 21	07:50	3°♍43'24	
max. Earth dist.	9844 Aug 21	15:28	4°♍23'24	1.32724 AU

superior conj	9844 Aug 24 15:51	10°♍48'51	0°32'48
minimum elong	9844 Aug 24 14:21	10°♍40'46	0°32'21
evening rise	9844 Aug 31 15:24	25°♍54'28	
	9844 Sep 02 13:56	0°♎	
	9844 Sep 20 16:39	0°♏	
evening max el	9844 Sep 23 05:28	2°♏40'22	23°00'58
desc. node	9844 Sep 24 09:30	3°♏45'45	
retrograde	9844 Oct 06 12:43	9°♏18'19	
evening set	9844 Oct 10 10:26	8°♏45'01	
min. Earth dist.	9844 Oct 17 14:25	5°♏28'28	0.55223 AU
inferior conj	9844 Oct 19 01:32	4°♏37'48	-5°38'25
minimum elong	9844 Oct 18 22:15	4°♏42'33	5°38'00
morning rise	9844 Oct 27 11:56	0°♏48'07	
direct	9844 Oct 30 12:57	0°♏26'20	
morning max el	9844 Nov 10 15:54	5°♏40'39	20°45'24
asc. node	9844 Nov 17 07:58	13°♏43'17	
	9844 Nov 26 14:52	0°♐	
morning set	9844 Nov 29 20:15	6°♐32'45	
superior conj	9844 Dec 07 06:33	21°♐57'36	1°31'35
minimum elong	9844 Dec 07 08:33	22°♐07'46	1°31'48
	9844 Dec 11 06:35	0°♑	
max. Earth dist.	9844 Dec 12 07:11	2°♑00'19	1.35899 AU
evening rise	9844 Dec 16 05:54	9°♑30'05	
desc. node	9844 Dec 21 08:01	18°♑37'39	
	9844 Dec 28 04:30	0°♒	
	9845 Jan 19 16:31	0°♓	
evening max el	9845 Jan 20 17:46	1°♓02'42	26°13'28
retrograde	9845 Feb 02 12:14	8°♓17'19	
evening set	9845 Feb 08 17:34	5°♓46'12	
min. Earth dist.	9845 Feb 12 22:05	1°♓22'56	0.66805 AU
asc. node	9845 Feb 13 07:00	0°♓55'46	
	9845 Feb 14 01:07	30°℞♒	
inferior conj	9845 Feb 14 13:46	29°♒20'56	0°25'10
minimum elong	9845 Feb 14 13:06	29°♒22'57	0°25'07
morning rise	9845 Feb 20 09:25	23°♒34'47	
direct	9845 Feb 23 12:17	22°♒39'35	
morning max el	9845 Mar 02 03:22	26°♒14'18	18°37'55
	9845 Mar 05 11:16	0°♓	
desc. node	9845 Mar 19 08:08	20°♓28'58	
morning set	9845 Mar 23 06:35	26°♓39'47	
	9845 Mar 25 09:32	0°♈	
superior conj	9845 Apr 08 11:23	22°♈02'52	-1°57'16
minimum elong	9845 Apr 08 03:04	21°♈30'18	1°56'50
max. Earth dist.	9845 Apr 07 20:26	21°♈04'22	1.45551 AU
	9845 Apr 13 13:04	0°♉	
evening rise	9845 Apr 24 00:08	16°♉34'20	
greatest brilliancy	9845 May 01 23:16	29°♉16'00	-0.9m
	9845 May 02 10:25	0°♊	
asc. node	9845 May 12 05:22	14°♊23'37	
evening max el	9845 May 15 09:43	18°♊02'43	18°44'46
retrograde	9845 May 22 00:42	21°♊41'04	
evening set	9845 May 25 07:38	20°♊39'09	
inferior conj	9845 May 30 22:12	15°♊00'06	3°15'32
minimum elong	9845 May 30 23:08	14°♊57'11	3°15'05
min. Earth dist.	9845 Jun 01 19:09	12°♊41'20	0.65639 AU
morning rise	9845 Jun 05 13:55	8°♊40'36	
direct	9845 Jun 12 01:18	5°♊55'29	
desc. node	9845 Jun 15 08:14	6°♊31'59	
morning max el	9845 Jun 25 06:31	13°♊45'30	26°50'41
	9845 Jul 08 09:58	0°♋	
	9845 Jul 27 00:05	0°♌	
morning set	9845 Jul 31 01:12	7°♌32'07	
max. Earth dist.	9845 Aug 04 06:38	15°♌48'32	1.34072 AU
asc. node	9845 Aug 08 04:44	23°♌49'31	
superior conj	9845 Aug 08 16:34	24°♌51'05	0°04'54
minimum elong	9845 Aug 08 16:19	24°♌49'47	0°04'36
behind sun begin	9845 Aug 08 10:48	24°♌21'02	
behind sun end	9845 Aug 08 21:49	25°♌18'35	
	9845 Aug 11 03:19	0°♍	
evening rise	9845 Aug 16 01:33	10°♍25'18	
	9845 Aug 26 05:38	0°♎	
evening max el	9845 Sep 04 21:53	12°♎58'32	21°24'54
desc. node	9845 Sep 11 06:43	17°♎38'37	
retrograde	9845 Sep 17 01:36	19°♎00'22	
evening set	9845 Sep 19 15:27	18°♎45'08	
inferior conj	9845 Sep 28 18:45	14°♎48'44	-4°47'22
minimum elong	9845 Sep 28 09:24	15°♎01'50	4°45'08
min. Earth dist.	9845 Sep 28 22:16	14°♎43'49	0.54640 AU
morning rise	9845 Oct 07 04:08	10°♎58'13	
direct	9845 Oct 10 22:00	10°♎27'52	
morning max el	9845 Oct 23 11:48	16°♎26'54	22°22'20
	9845 Nov 03 01:11	0°♏	
asc. node	9845 Nov 04 04:55	1°♏54'24	
morning set	9845 Nov 14 06:51	21°♏20'25	
	9845 Nov 18 08:17	0°♐	
superior conj	9845 Nov 21 08:19	6°♐24'30	1°39'04
minimum elong	9845 Nov 21 09:04	6°♐28'32	1°39'24
max. Earth dist.	9845 Nov 24 22:17	13°♐53'50	1.34148 AU
evening rise	9845 Nov 29 10:23	22°♐54'38	
	9845 Dec 03 04:14	0°♑	
desc. node	9845 Dec 08 05:02	8°♑56'36	
	9845 Dec 21 21:07	0°♒	
evening max el	9846 Jan 03 07:15	14°♒41'24	27°03'18
retrograde	9846 Jan 16 15:14	22°♒02'48	
evening set	9846 Jan 23 07:02	19°♒28'25	
min. Earth dist.	9846 Jan 27 06:04	15°♒38'59	0.65449 AU
inferior conj	9846 Jan 29 09:25	13°♒13'32	-0°35'31
minimum elong	9846 Jan 29 10:27	13°♒10'37	0°34'47
asc. node	9846 Jan 31 04:09	11°♒15'32	
morning rise	9846 Feb 04 15:10	7°♒39'24	
direct	9846 Feb 07 08:42	6°♒59'12	
morning max el	9846 Feb 13 18:26	10°♒22'14	18°04'44
	9846 Feb 27 12:37	0°♓	
morning set	9846 Mar 04 02:24	7°♓27'45	
desc. node	9846 Mar 06 04:56	10°♓53'47	
	9846 Mar 18 02:44	0°♈	
superior conj	9846 Mar 18 19:11	1°♈04'55	-1°24'09
minimum elong	9846 Mar 18 10:13	0°♈29'31	1°23'07
max. Earth dist.	9846 Mar 21 16:21	5°♈36'49	1.45500 AU
evening rise	9846 Apr 03 22:33	26°♈13'52	
	9846 Apr 06 09:06	0°♉	
greatest brilliancy	9846 Apr 16 22:17	16°♉06'23	-0.7m
	9846 Apr 27 02:56	0°♊	
evening max el	9846 Apr 28 17:08	1°♊42'49	19°30'35
asc. node	9846 Apr 29 02:28	2°♊06'01	
retrograde	9846 May 05 22:02	5°♊48'04	
evening set	9846 May 09 13:24	4°♊30'43	
	9846 May 13 21:22	30°℞♉	
inferior conj	9846 May 14 22:52	28°♉36'47	3°19'14
minimum elong	9846 May 14 22:37	28°♉37'39	3°18'54
min. Earth dist.	9846 May 16 04:47	26°♉58'14	0.67042 AU
morning rise	9846 May 20 07:28	22°♉17'15	
direct	9846 May 26 09:01	19°♉36'26	
desc. node	9846 Jun 02 05:13	22°♉13'28	
morning max el	9846 Jun 07 16:38	26°♉58'56	25°38'16
	9846 Jun 10 12:08	0°♊	
	9846 Jul 02 01:03	0°♋	
morning set	9846 Jul 13 18:40	20°♋02'48	
max. Earth dist.	9846 Jul 17 11:34	26°♋55'56	1.35885 AU

	9846 Jul	19	02:03	0°♌	
superior conj	9846 Jul	23	08:48	8°♌25'42	-0°26'19
minimum elong	9846 Jul	23	10:25	8°♌33'45	0°26'19
asc. node	9846 Jul	26	01:39	13°♌54'00	
evening rise	9846 Jul	31	08:14	24°♌43'23	
	9846 Aug	02	22:52	0°♍	
evening max el	9846 Aug	18	02:37	23°♍53'03	20°04'24
retrograde	9846 Aug	28	15:08	29°♍06'05	
desc. node	9846 Aug	29	03:55	29°♍05'19	
evening set	9846 Aug	30	13:19	28°♍56'23	
inferior conj	9846 Sep	08	14:01	24°♍57'08	-3°08'49
minimum elong	9846 Sep	08	05:40	25°♍09'36	3°05'59
min. Earth dist.	9846 Sep	10	07:50	23°♍54'37	0.55002 AU
morning rise	9846 Sep	16	20:50	20°♍45'24	
direct	9846 Sep	21	09:13	20°♍01'11	
morning max el	9846 Oct	05	00:14	26°♍41'55	24°09'04
	9846 Oct	08	04:50	0°♎	
asc. node	9846 Oct	22	01:50	20°♎43'50	
	9846 Oct	26	20:00	0°♏	
morning set	9846 Oct	29	18:37	6°♏09'06	
superior conj	9846 Nov	05	15:36	21°♏05'34	1°39'55
minimum elong	9846 Nov	05	15:10	21°♏03'13	1°40'13
max. Earth dist.	9846 Nov	07	21:40	25°♏57'56	1.32817 AU
	9846 Nov	09	19:11	0°♐	
evening rise	9846 Nov	13	02:21	6°♐48'58	
desc. node	9846 Nov	25	02:06	28°♐56'36	
	9846 Nov	25	17:24	0°♑	
evening max el	9846 Dec	16	19:31	27°♑59'09	27°28'30
	9846 Dec	19	01:24	0°♒	
retrograde	9846 Dec	30	11:31	5°♒19'24	
evening set	9847 Jan	06	10:46	2°♒48'29	
	9847 Jan	09	17:27	30°℞♑	
min. Earth dist.	9847 Jan	10	05:23	29°♑30'43	0.63764 AU
inferior conj	9847 Jan	12	20:02	26°♑50'27	-1°43'42
minimum elong	9847 Jan	12	23:20	26°♑41'59	1°42'00
asc. node	9847 Jan	18	01:16	22°♑17'33	
morning rise	9847 Jan	19	13:50	21°♑31'22	
direct	9847 Jan	21	23:57	21°♑02'28	
morning max el	9847 Jan	28	11:52	24°♑24'10	17°48'42
	9847 Feb	02	01:48	0°♒	
morning set	9847 Feb	14	01:37	19°♒35'16	
	9847 Feb	20	04:40	0°♓	
desc. node	9847 Feb	21	01:45	1°♓28'27	
superior conj	9847 Feb	26	19:42	10°♓58'00	-0°41'44
minimum elong	9847 Feb	26	15:10	10°♓39'33	0°40'54
max. Earth dist.	9847 Mar	04	11:29	20°♓03'49	1.44717 AU
	9847 Mar	10	19:27	0°♈	
evening rise	9847 Mar	14	10:11	5°♈34'33	
	9847 Mar	30	18:43	0°♉	
evening max el	9847 Apr	11	19:03	15°♉24'06	20°31'13
asc. node	9847 Apr	15	23:37	18°♉51'51	
retrograde	9847 Apr	19	20:42	20°♉06'00	
evening set	9847 Apr	23	21:19	18°♉33'03	
inferior conj	9847 Apr	29	04:28	12°♉25'58	3°10'25
minimum elong	9847 Apr	29	03:13	12°♉30'16	3°10'01
min. Earth dist.	9847 Apr	29	20:14	11°♉31'49	0.67992 AU
morning rise	9847 May	04	08:53	6°♉08'55	
direct	9847 May	09	21:59	3°♉41'08	
desc. node	9847 May	20	02:09	9°♉23'08	
morning max el	9847 May	21	02:06	10°♉22'12	24°12'11
	9847 Jun	05	15:47	0°♊	
	9847 Jun	24	18:08	0°♋	
morning set	9847 Jun	25	16:49	1°♋37'42	
max. Earth dist.	9847 Jun	29	09:27	8°♋07'48	1.38041 AU
superior conj	9847 Jul	06	13:08	21°♋23'20	-0°59'10
minimum elong	9847 Jul	06	16:59	21°♋41'46	0°58'53
	9847 Jul	10	23:30	0°♌	
asc. node	9847 Jul	12	22:35	3°♌52'23	
evening rise	9847 Jul	15	08:52	8°♌40'49	
	9847 Jul	27	07:25	0°♍	
evening max el	9847 Jul	31	20:35	5°♍32'55	19°04'27
retrograde	9847 Aug	09	17:47	9°♍57'52	
evening set	9847 Aug	11	14:53	9°♍46'48	
desc. node	9847 Aug	16	01:07	8°♍04'22	
inferior conj	9847 Aug	20	00:26	5°♍33'02	-1°13'49
minimum elong	9847 Aug	19	21:14	5°♍38'32	1°12'46
min. Earth dist.	9847 Aug	22	21:19	3°♍35'20	0.56250 AU
morning rise	9847 Aug	28	00:30	0°♍45'25	
	9847 Aug	30	09:11	30°℞♌	
direct	9847 Sep	02	08:15	29°♌39'14	
	9847 Sep	05	07:32	0°♍	
morning max el	9847 Sep	16	12:57	6°♍54'46	25°49'39
	9847 Oct	03	12:32	0°♎	
asc. node	9847 Oct	08	22:43	10°♎01'07	
morning set	9847 Oct	14	05:51	20°♎53'19	
	9847 Oct	18	10:16	0°♏	
superior conj	9847 Oct	21	02:06	5°♏53'16	1°34'45
minimum elong	9847 Oct	21	00:42	5°♏45'31	1°34'52
max. Earth dist.	9847 Oct	22	03:31	8°♏13'34	1.31939 AU
evening rise	9847 Oct	28	02:40	21°♏04'29	
	9847 Nov	01	12:49	0°♐	
desc. node	9847 Nov	11	23:14	18°♐29'26	
	9847 Nov	19	19:55	0°♑	
evening max el	9847 Nov	29	04:14	10°♑42'48	27°23'12
retrograde	9847 Dec	13	00:36	17°♑58'00	
evening set	9847 Dec	20	01:43	15°♑39'34	
min. Earth dist.	9847 Dec	23	18:32	12°♑47'44	0.61806 AU
inferior conj	9847 Dec	26	18:35	10°♑04'10	-2°56'51
minimum elong	9847 Dec	27	00:24	9°♑50'54	2°54'18
morning rise	9848 Jan	03	01:32	5°♑03'24	
asc. node	9848 Jan	04	22:21	4°♑42'42	
direct	9848 Jan	05	06:41	4°♑42'11	
morning max el	9848 Jan	12	04:30	8°♑12'05	17°50'35
	9848 Jan	26	09:45	0°♒	
morning set	9848 Jan	27	22:05	2°♒43'11	
superior conj	9848 Feb	07	21:10	22°♒03'12	0°00'28
minimum elong	9848 Feb	07	21:14	22°♒03'31	0°00'43
behind sun begin	9848 Feb	07	12:40	21°♒26'51	
behind sun end	9848 Feb	08	05:48	22°♒40'05	
desc. node	9848 Feb	07	22:36	22°♒09'24	
	9848 Feb	12	14:35	0°♓	
max. Earth dist.	9848 Feb	15	02:54	4°♓07'26	1.43291 AU
evening rise	9848 Feb	22	02:22	15°♓14'40	
	9848 Mar	02	18:56	0°♈	
evening max el	9848 Mar	24	15:28	29°♈06'32	21°43'26
	9848 Mar	25	13:14	0°♉	
asc. node	9848 Apr	01	20:48	4°♉26'24	
retrograde	9848 Apr	02	18:49	4°♉30'35	
evening set	9848 Apr	07	05:40	2°♉42'21	
	9848 Apr	09	20:17	30°℞♈	
inferior conj	9848 Apr	12	12:46	26°♈24'30	2°50'53
minimum elong	9848 Apr	12	10:51	26°♈31'11	2°50'22
min. Earth dist.	9848 Apr	12	15:32	26°♈14'51	0.68488 AU
morning rise	9848 Apr	17	15:51	20°♈11'33	
direct	9848 Apr	22	15:24	18°♈02'26	
morning max el	9848 May	02	12:40	23°♈53'05	22°42'21
desc. node	9848 May	05	23:02	27°♈37'21	
	9848 May	07	22:43	0°♉	
	9848 May	29	01:17	0°♊	

morning set	9848 Jun 05	14:35	12°♊04'40		
max. Earth dist.	9848 Jun 10	06:37	19°♊53'22	1.40317 AU	
	9848 Jun 16	01:43	0°♋		
superior conj	9848 Jun 18	01:31	3°♋34'59	-1°30'50	
minimum elong	9848 Jun 18	07:19	4°♋01'19	1°30'29	
evening rise	9848 Jun 28	00:17	22°♋09'44		
asc. node	9848 Jun 28	19:34	23°♋40'59		
	9848 Jul 02	04:33	0°♌		
evening max el	9848 Jul 14	01:00	17°♌54'42	18°25'33	
retrograde	9848 Jul 21	15:05	21°♌42'47		
evening set	9848 Jul 23	18:13	21°♌25'37		
inferior conj	9848 Jul 31	08:17	16°♌52'13	0°28'33	
minimum elong	9848 Jul 31	09:17	16°♌50'11	0°27'53	
desc. node	9848 Aug 01	22:16	15°♌35'24		
min. Earth dist.	9848 Aug 03	16:42	14°♌11'44	0.58154 AU	
morning rise	9848 Aug 07	20:50	11°♌28'08		
direct	9848 Aug 13	22:08	9°♌52'44		
morning max el	9848 Aug 28	07:10	17°♌33'32	27°06'57	
	9848 Sep 07	15:20	0°♍		
asc. node	9848 Sep 24	19:36	29°♍38'47		
	9848 Sep 24	23:46	0°♎		
morning set	9848 Sep 27	14:55	5°♎28'18		
superior conj	9848 Oct 04	13:54	20°♎41'35	1°24'01	
minimum elong	9848 Oct 04	11:52	20°♎30'15	1°23'52	
max. Earth dist.	9848 Oct 04	12:44	20°♎35'04	1.31534 AU	
	9848 Oct 08	18:52	0°♏		
evening rise	9848 Oct 11	08:49	5°♏34'18		
	9848 Oct 24	03:57	0°♐		
desc. node	9848 Oct 28	20:23	7°♐23'59		
evening max el	9848 Nov 10	06:59	22°♐41'07	26°44'02	
retrograde	9848 Nov 24	05:19	29°♐49'27		
evening set	9848 Nov 30	23:50	27°♐53'53		
min. Earth dist.	9848 Dec 04	21:06	25°♐17'06	0.59702 AU	
inferior conj	9848 Dec 08	01:32	22°♐45'17	-4°09'20	
minimum elong	9848 Dec 08	09:11	22°♐30'03	4°06'41	
morning rise	9848 Dec 15	21:09	18°♐05'32		
direct	9848 Dec 18	00:48	17°♐48'30		
asc. node	9848 Dec 21	19:25	18°♐43'44		
morning max el	9848 Dec 25	16:49	21°♐35'55	18°11'35	
	9849 Jan 01	03:10	0°♑		
morning set	9849 Jan 10	09:42	16°♑32'52		
	9849 Jan 17	14:21	0°♒		
superior conj	9849 Jan 19	22:31	4°♒15'38	0°36'35	
minimum elong	9849 Jan 20	01:06	4°♒27'19	0°36'32	
desc. node	9849 Jan 24	19:30	12°♒52'30		
max. Earth dist.	9849 Jan 27	13:22	17°♒34'06	1.41392 AU	
evening rise	9849 Feb 01	11:19	25°♒42'14		
	9849 Feb 04	03:34	0°♓		
	9849 Feb 24	14:02	0°♈		
evening max el	9849 Mar 07	07:41	12°♈51'03	23°02'33	
retrograde	9849 Mar 17	14:39	18°♈56'21		
asc. node	9849 Mar 19	17:59	18°♈34'03		
evening set	9849 Mar 22	12:48	16°♈53'36		
inferior conj	9849 Mar 27	21:46	10°♈28'09	2°21'43	
minimum elong	9849 Mar 27	19:34	10°♈35'47	2°21'05	
min. Earth dist.	9849 Mar 27	12:20	11°♈00'48	0.68549 AU	
morning rise	9849 Apr 02	02:13	4°♈20'42		
direct	9849 Apr 06	12:11	2°♈33'04		
morning max el	9849 Apr 15	03:34	7°♈32'41	21°17'24	
desc. node	9849 Apr 22	19:54	16°♈37'47		
	9849 May 02	09:09	0°♉		
morning set	9849 May 16	09:28	21°♉18'03		
	9849 May 21	20:00	0°♊		
max. Earth dist.	9849 May 23	08:53	2°♊30'28	1.42439 AU	
superior conj	9849 May 30	17:15	14°♊49'51	-1°57'01	
minimum elong	9849 May 30	23:13	15°♊15'28	1°56'55	
	9849 Jun 08	08:01	0°♋		
evening rise	9849 Jun 11	02:22	4°♋59'19		
asc. node	9849 Jun 15	16:35	13°♋14'38		
	9849 Jun 26	17:05	0°♌		
evening max el	9849 Jun 27	11:52	0°♌48'32	18°06'50	
retrograde	9849 Jul 04	06:06	4°♌15'03		
evening set	9849 Jul 06	17:05	3°♌48'02		
	9849 Jul 12	08:25	30°℞♋		
inferior conj	9849 Jul 13	13:00	28°♋54'19	1°45'42	
minimum elong	9849 Jul 13	15:45	28°♋47'53	1°44'30	
min. Earth dist.	9849 Jul 16	19:25	25°♋52'37	0.60382 AU	
desc. node	9849 Jul 19	19:24	23°♋29'21		
morning rise	9849 Jul 20	11:36	23°♋02'36		
direct	9849 Jul 27	00:46	20°♋57'23		
morning max el	9849 Aug 10	08:14	28°♋53'32	27°49'39	
	9849 Aug 11	10:25	0°♌		
	9849 Sep 01	12:52	0°♍		
morning set	9849 Sep 11	20:00	19°♍49'02		
asc. node	9849 Sep 11	16:29	19°♍30'48		
	9849 Sep 16	14:11	0°♎		
max. Earth dist.	9849 Sep 17	21:49	2°♎53'44	1.31611 AU	
superior conj	9849 Sep 19	01:09	5°♎24'49	1°08'00	
minimum elong	9849 Sep 18	22:54	5°♎12'24	1°07'39	
evening rise	9849 Sep 25	18:37	20°♎12'15		
	9849 Sep 30	11:54	0°♏		
desc. node	9849 Oct 15	17:34	25°♏25'19		
	9849 Oct 19	10:33	0°♐		
evening max el	9849 Oct 23	01:57	3°♐48'57	25°32'46	
retrograde	9849 Nov 05	23:33	10°♐49'26		
evening set	9849 Nov 12	00:20	9°♐25'27		
min. Earth dist.	9849 Nov 16	14:17	6°♐47'46	0.57658 AU	
inferior conj	9849 Nov 19	13:40	4°♐44'40	-5°10'10	
minimum elong	9849 Nov 19	20:30	4°♐32'50	5°08'36	
morning rise	9849 Nov 27	18:59	0°♐27'17		
direct	9849 Nov 30	02:18	0°♐11'01		
asc. node	9849 Dec 08	16:27	4°♐14'20		
morning max el	9849 Dec 08	20:58	4°♐25'07	18°53'32	
	9849 Dec 24	21:21	0°♑		
morning set	9849 Dec 25	07:44	0°♑50'52		
superior conj	9850 Jan 02	19:12	17°♑22'32	1°04'28	
minimum elong	9850 Jan 02	22:24	17°♑37'42	1°04'25	
	9850 Jan 09	15:42	0°♒		
max. Earth dist.	9850 Jan 09	20:16	0°♒20'18	1.39241 AU	
desc. node	9850 Jan 11	16:27	3°♒34'34		
evening rise	9850 Jan 13	17:52	7°♒07'29		
	9850 Jan 28	03:34	0°♓		
evening max el	9850 Feb 17	21:41	26°♓39'11	24°22'27	
	9850 Feb 21	15:53	0°♈		
retrograde	9850 Mar 01	06:54	3°♈19'03		
evening set	9850 Mar 06	17:12	1°♈03'04		
asc. node	9850 Mar 06	15:10	1°♈07'23		
	9850 Mar 07	20:09	30°℞♓		
min. Earth dist.	9850 Mar 11	08:23	25°♓45'13	0.68193 AU	
inferior conj	9850 Mar 12	05:36	24°♓33'57	1°43'27	
minimum elong	9850 Mar 12	03:34	24°♓40'48	1°42'50	
morning rise	9850 Mar 17	14:01	18°♓33'30		
direct	9850 Mar 21	11:03	17°♓07'41		
morning max el	9850 Mar 29	01:41	21°♓24'15	20°03'36	
	9850 Apr 05	06:00	0°♈		
desc. node	9850 Apr 09	16:46	6°♈12'04		
morning set	9850 Apr 25	09:37	29°♈44'12		
	9850 Apr 25	13:43	0°♉		
max. Earth dist.	9850 May 05	18:44	16°♉00'05	1.44147 AU	

superior conj	9850 May 11	08:50	25°♉01'18	-2°11'38
minimum elong	9850 May 11	11:07	25°♉10'38	2°11'53
	9850 May 14	09:27	0°♊	
evening rise	9850 May 24	10:22	16°♊58'55	
	9850 Jun 01	01:38	0°♋	
asc. node	9850 Jun 02	13:38	2°♋27'32	
evening max el	9850 Jun 11	01:26	14°♋04'23	18°07'14
retrograde	9850 Jun 17	10:52	17°♋24'41	
evening set	9850 Jun 20	05:38	16°♋45'13	
inferior conj	9850 Jun 26	11:02	11°♋32'21	2°37'07
minimum elong	9850 Jun 26	13:40	11°♋25'19	2°36'08
min. Earth dist.	9850 Jun 29	06:53	8°♋33'03	0.62619 AU
morning rise	9850 Jul 02	19:54	5°♋23'27	
desc. node	9850 Jul 06	16:30	3°♋21'11	
direct	9850 Jul 09	13:26	2°♋54'39	
morning max el	9850 Jul 23	14:59	10°♋56'59	27°53'57
	9850 Aug 07	14:09	0°♌	
	9850 Aug 24	21:09	0°♍	
morning set	9850 Aug 26	18:56	3°♍48'59	
asc. node	9850 Aug 29	13:21	9°♍31'28	
max. Earth dist.	9850 Sep 01	02:52	14°♍58'10	1.32177 AU
superior conj	9850 Sep 03	09:55	19°♍56'29	0°47'01
minimum elong	9850 Sep 03	07:59	19°♍45'54	0°46'33
	9850 Sep 08	00:09	0°♎	
evening rise	9850 Sep 10	06:03	4°♎51'42	
	9850 Sep 23	12:03	0°♏	
desc. node	9850 Oct 02	14:46	12°♏12'03	
evening max el	9850 Oct 04	14:00	14°♏12'49	23°58'51
retrograde	9850 Oct 18	05:12	21°♏01'58	
evening set	9850 Oct 23	00:07	20°♏11'47	
min. Earth dist.	9850 Oct 29	00:32	17°♏14'42	0.55946 AU
inferior conj	9850 Oct 31	05:16	15°♏54'43	-5°41'41
minimum elong	9850 Oct 31	06:41	15°♏52'34	5°41'23
morning rise	9850 Nov 08	15:14	11°♏57'43	
direct	9850 Nov 11	08:29	11°♏38'48	
morning max el	9850 Nov 21	13:20	16°♏28'22	19°58'04
asc. node	9850 Nov 25	13:27	20°♏58'58	
	9850 Dec 01	11:14	0°♐	
morning set	9850 Dec 09	12:37	15°♐25'57	
	9850 Dec 16	16:25	0°♑	
superior conj	9850 Dec 17	06:17	1°♑09'23	1°23'57
minimum elong	9850 Dec 17	08:53	1°♑22'21	1°24'05
max. Earth dist.	9850 Dec 23	02:50	12°♑31'22	1.37070 AU
evening rise	9850 Dec 26	20:55	19°♑25'39	
desc. node	9850 Dec 29	13:25	24°♑11'08	
	9851 Jan 01	23:13	0°♒	
	9851 Jan 22	06:39	0°♓	
evening max el	9851 Jan 31	11:00	10°♓28'28	25°36'23
retrograde	9851 Feb 12	18:36	17°♓33'11	
evening set	9851 Feb 18	17:18	15°♓06'23	
asc. node	9851 Feb 21	12:20	12°♓16'34	
min. Earth dist.	9851 Feb 23	01:25	10°♓23'29	0.67429 AU
inferior conj	9851 Feb 24	10:22	8°♓38'18	0°56'18
minimum elong	9851 Feb 24	09:03	8°♓42'33	0°55'57
morning rise	9851 Mar 02	01:15	2°♓46'32	
direct	9851 Mar 05	10:24	1°♓40'59	
morning max el	9851 Mar 12	07:43	5°♓26'59	19°04'34
greatest brilliancy	9851 Mar 25	17:01	23°♓21'57	-0.7m
desc. node	9851 Mar 27	13:37	26°♓11'13	
	9851 Mar 30	01:21	0°♈	
morning set	9851 Apr 04	12:53	8°♈27'49	
	9851 Apr 18	08:37	0°♉	
max. Earth dist.	9851 Apr 18	10:48	0°♉08'35	1.45242 AU
superior conj	9851 Apr 21	01:50	4°♉16'48	-2°08'25
minimum elong	9851 Apr 20	20:56	3°♉57'28	2°08'27
evening rise	9851 May 05	20:00	28°♉00'49	
	9851 May 07	01:07	0°♊	
asc. node	9851 May 20	10:43	21°♊12'49	
evening max el	9851 May 25	14:27	27°♊34'04	18°25'58
	9851 May 28	14:59	0°♋	
retrograde	9851 Jun 01	00:56	1°♋02'20	
evening set	9851 Jun 04	03:21	0°♋08'51	
	9851 Jun 04	09:21	30°℞♊	
inferior conj	9851 Jun 09	22:14	24°♊38'41	3°06'41
minimum elong	9851 Jun 09	23:53	24°♊33'49	3°06'05
min. Earth dist.	9851 Jun 12	03:47	22°♊01'09	0.64632 AU
morning rise	9851 Jun 15	19:24	18°♊21'06	
direct	9851 Jun 22	10:25	15°♊38'54	
desc. node	9851 Jun 23	13:33	15°♊43'10	
morning max el	9851 Jul 06	01:06	23°♊37'19	27°22'30
	9851 Jul 11	17:37	0°♋	
	9851 Jul 31	22:34	0°♌	
morning set	9851 Aug 10	09:11	17°♌21'32	
max. Earth dist.	9851 Aug 15	00:12	26°♌39'46	1.33238 AU
asc. node	9851 Aug 16	10:14	29°♌36'37	
	9851 Aug 16	14:42	0°♍	
superior conj	9851 Aug 18	14:12	4°♍10'56	0°21'27
minimum elong	9851 Aug 18	13:10	4°♍05'21	0°21'03
evening rise	9851 Aug 25	17:13	19°♍27'12	
	9851 Aug 30	20:39	0°♎	
evening max el	9851 Sep 16	01:52	24°♎21'13	22°18'45
desc. node	9851 Sep 19	11:57	27°♎17'03	
	9851 Sep 24	12:06	0°♏	
retrograde	9851 Sep 28	23:07	0°♏46'26	
evening set	9851 Oct 02	06:11	0°♏22'25	
	9851 Oct 03	14:08	30°℞♎	
min. Earth dist.	9851 Oct 10	08:00	26°♎48'41	0.54870 AU
inferior conj	9851 Oct 11	03:46	26°♎20'51	-5°23'49
minimum elong	9851 Oct 10	21:14	26°♎30'03	5°22'45
morning rise	9851 Oct 19	13:58	22°♎33'39	
direct	9851 Oct 22	21:53	22°♎08'49	
morning max el	9851 Nov 03	16:15	27°♎41'19	21°24'37
	9851 Nov 05	22:32	0°♏	
asc. node	9851 Nov 12	10:24	8°♏42'14	
morning set	9851 Nov 23	21:43	0°♐10'36	
	9851 Nov 23	19:41	0°♐	
superior conj	9851 Dec 01	03:39	15°♐24'30	1°35'36
minimum elong	9851 Dec 01	05:08	15°♐32'11	1°35'54
max. Earth dist.	9851 Dec 05	13:37	24°♐24'41	1.35111 AU
	9851 Dec 08	10:05	0°♑	
evening rise	9851 Dec 09	17:10	2°♑28'19	
desc. node	9851 Dec 16	10:25	14°♑37'46	
	9851 Dec 25	22:32	0°♒	
evening max el	9852 Jan 14	00:19	24°♒12'48	26°37'06
	9852 Jan 21	13:35	0°♓	
retrograde	9852 Jan 27	01:03	1°♓31'35	
	9852 Feb 01	00:42	30°℞♒	
evening set	9852 Feb 02	11:15	28°♒58'01	
min. Earth dist.	9852 Feb 06	13:14	24°♒49'37	0.66276 AU
inferior conj	9852 Feb 08	10:00	22°♒36'28	0°00'26
minimum elong	9852 Feb 08	09:59	22°♒36'32	0°00'40
transit middle	9852 Feb 08	09:59	22°♒36'32	0°00'40
transit begin	9852 Feb 08	07:04	22°♒45'14	
transit end	9852 Feb 08	12:54	22°♒27'51	
asc. node	9852 Feb 08	09:29	22°♒38'00	
morning rise	9852 Feb 14	09:43	16°♒55'26	
direct	9852 Feb 17	08:24	16°♒07'07	
morning max el	9852 Feb 23	20:16	19°♒35'21	18°21'45
	9852 Mar 02	22:05	0°♓	

desc. node	9852 Mar 13 10:26	16°♓28'07	
morning set	9852 Mar 14 15:38	18°♓24'36	
	9852 Mar 21 22:45	0°♈	
superior conj	9852 Mar 30 07:40	13°♈09'22	-1°45'01
minimum elong	9852 Mar 29 22:11	12°♈32'14	1°44'14
max. Earth dist.	9852 Mar 31 05:58	14°♈36'32	1.45618 AU
	9852 Apr 10 02:11	0°♉	
evening rise	9852 Apr 15 05:58	8°♉05'32	
greatest brilliancy	9852 Apr 25 12:51	24°♉10'53	-0.8m
	9852 Apr 29 09:12	0°♊	
asc. node	9852 May 06 07:49	9°♊21'02	
evening max el	9852 May 08 00:22	11°♊10'55	19°02'15
retrograde	9852 May 14 20:30	14°♊59'46	
evening set	9852 May 18 06:52	13°♊51'25	
inferior conj	9852 May 23 18:52	8°♊05'38	3°18'47
minimum elong	9852 May 23 19:17	8°♊04'20	3°18'24
min. Earth dist.	9852 May 25 09:18	6°♊03'07	0.66284 AU
morning rise	9852 May 29 07:10	1°♊45'27	
	9852 May 31 18:52	30°℞♉	
direct	9852 Jun 04 14:38	29°♉01'01	
	9852 Jun 08 18:10	0°♊	
desc. node	9852 Jun 09 10:35	0°♊19'44	
morning max el	9852 Jun 17 11:49	6°♊41'55	26°22'14
	9852 Jul 05 11:59	0°♋	
morning set	9852 Jul 23 11:23	0°♌17'22	
	9852 Jul 23 07:40	0°♌	
max. Earth dist.	9852 Jul 27 10:54	7°♌54'51	1.34787 AU
superior conj	9852 Aug 01 11:36	18°♌01'17	-0°08'03
minimum elong	9852 Aug 01 12:05	18°♌03'43	0°08'14
behind sun begin	9852 Aug 01 06:57	17°♌37'23	
behind sun end	9852 Aug 01 17:12	18°♌30'05	
asc. node	9852 Aug 02 07:07	19°♌41'50	
	9852 Aug 07 05:34	0°♍	
evening rise	9852 Aug 09 02:07	3°♍52'30	
	9852 Aug 23 18:22	0°♎	
evening max el	9852 Aug 27 22:50	4°♎51'13	20°48'21
desc. node	9852 Sep 05 09:07	10°♎09'40	
retrograde	9852 Sep 08 11:09	10°♎33'46	
evening set	9852 Sep 10 15:49	10°♎22'11	
inferior conj	9852 Sep 19 19:57	6°♎26'05	-4°09'52
minimum elong	9852 Sep 19 10:09	6°♎40'03	4°07'02
min. Earth dist.	9852 Sep 20 16:27	5°♎56'48	0.54669 AU
morning rise	9852 Sep 28 04:30	2°♎28'45	
direct	9852 Oct 02 05:45	1°♎53'31	
morning max el	9852 Oct 15 08:14	8°♎11'30	23°07'27
asc. node	9852 Oct 29 07:20	27°♎10'41	
	9852 Oct 30 20:58	0°♏	
morning set	9852 Nov 07 09:01	14°♏59'16	
superior conj	9852 Nov 14 08:05	29°♏58'38	1°40'12
minimum elong	9852 Nov 14 08:20	29°♏59'55	1°40'32
	9852 Nov 14 08:21	0°♐	
max. Earth dist.	9852 Nov 17 08:03	6°♐20'41	1.33521 AU
evening rise	9852 Nov 22 02:56	16°♐06'41	
	9852 Nov 29 12:40	0°♑	
desc. node	9852 Dec 02 07:26	4°♑49'27	
	9852 Dec 19 11:57	0°♒	
evening max el	9852 Dec 26 13:19	7°♒43'49	27°17'22
retrograde	9853 Jan 09 01:34	15°♒06'27	
evening set	9853 Jan 15 20:59	12°♒32'21	
min. Earth dist.	9853 Jan 19 17:50	8°♒56'52	0.64767 AU
inferior conj	9853 Jan 22 02:11	6°♒23'34	-1°03'38
minimum elong	9853 Jan 22 04:07	6°♒18'18	1°02'29
asc. node	9853 Jan 25 06:38	3°♒09'29	
morning rise	9853 Jan 28 12:53	0°♒55'37	
direct	9853 Jan 31 02:52	0°♒20'51	
morning max el	9853 Feb 06 12:48	3°♒42'22	17°55'45
morning set	9853 Feb 23 23:48	29°♒48'39	
	9853 Feb 24 02:31	0°♓	
desc. node	9853 Feb 28 07:16	6°♓57'45	
superior conj	9853 Mar 09 21:02	22°♓29'39	-1°06'42
minimum elong	9853 Mar 09 13:38	22°♓00'09	1°05'39
max. Earth dist.	9853 Mar 14 01:22	29°♓07'00	1.45251 AU
	9853 Mar 14 14:51	0°♈	
evening rise	9853 Mar 25 22:06	17°♈32'32	
	9853 Apr 03 02:01	0°♉	
greatest brilliancy	9853 Apr 09 12:21	9°♉35'41	-0.6m
evening max el	9853 Apr 21 05:31	24°♉51'37	19°54'41
asc. node	9853 Apr 23 04:56	26°♉41'06	
retrograde	9853 Apr 28 18:41	29°♉11'45	
evening set	9853 May 02 13:46	27°♉47'59	
inferior conj	9853 May 07 21:58	21°♉48'18	3°16'52
minimum elong	9853 May 07 21:15	21°♉50'43	3°16'31
min. Earth dist.	9853 May 08 21:49	20°♉28'04	0.67506 AU
morning rise	9853 May 13 04:25	15°♉29'20	
direct	9853 May 19 00:54	12°♉52'54	
desc. node	9853 May 27 07:34	16°♉41'48	
morning max el	9853 May 30 21:32	19°♉59'56	25°02'33
	9853 Jun 08 10:37	0°♊	
	9853 Jun 28 15:35	0°♋	
morning set	9853 Jul 05 21:15	12°♋25'34	
max. Earth dist.	9853 Jul 09 11:37	18°♋57'40	1.36769 AU
	9853 Jul 15 06:46	0°♌	
superior conj	9853 Jul 15 23:13	1°♌20'42	-0°40'12
minimum elong	9853 Jul 16 01:45	1°♌33'12	0°40'05
asc. node	9853 Jul 20 04:02	9°♌43'42	
evening rise	9853 Jul 24 06:32	18°♌01'51	
	9853 Jul 30 09:51	0°♍	
evening max el	9853 Aug 10 09:27	16°♍04'39	19°36'21
retrograde	9853 Aug 20 04:40	20°♍55'57	
evening set	9853 Aug 22 00:56	20°♍46'24	
desc. node	9853 Aug 23 06:20	20°♍30'02	
inferior conj	9853 Aug 30 20:18	16°♍42'31	-2°19'59
minimum elong	9853 Aug 30 14:00	16°♍52'27	2°17'44
min. Earth dist.	9853 Sep 02 03:44	15°♍15'20	0.55430 AU
morning rise	9853 Sep 08 00:49	12°♍16'18	
direct	9853 Sep 12 21:37	11°♍23'28	
morning max el	9853 Sep 26 19:46	18°♍20'52	24°53'45
	9853 Oct 06 12:06	0°♎	
asc. node	9853 Oct 16 04:14	16°♎12'35	
morning set	9853 Oct 22 20:44	29°♎46'03	
	9853 Oct 22 23:21	0°♏	
superior conj	9853 Oct 29 16:59	14°♏43'04	1°38'27
minimum elong	9853 Oct 29 16:07	14°♏38'15	1°38'40
max. Earth dist.	9853 Oct 31 10:18	18°♏28'51	1.32379 AU
evening rise	9853 Nov 05 22:47	0°♐10'52	
	9853 Nov 05 20:40	0°♐	
desc. node	9853 Nov 19 04:30	24°♐38'46	
	9853 Nov 22 13:18	0°♑	
evening max el	9853 Dec 09 00:30	20°♑49'07	27°30'24
retrograde	9853 Dec 22 19:07	28°♑07'48	
evening set	9853 Dec 29 19:44	25°♑41'16	
min. Earth dist.	9854 Jan 02 13:11	22°♑35'11	0.62954 AU
inferior conj	9854 Jan 05 08:07	19°♑51'55	-2°14'22
minimum elong	9854 Jan 05 12:29	19°♑41'13	2°12'14
morning rise	9854 Jan 12 07:25	14°♑39'59	
asc. node	9854 Jan 12 03:45	14°♑43'22	
direct	9854 Jan 14 14:59	14°♑14'50	
morning max el	9854 Jan 21 06:17	17°♑39'16	17°47'10

	9854 Jan 30 03:49	0°♒	
morning set	9854 Feb 06 08:55	12°♒24'28	
desc. node	9854 Feb 15 04:05	27°♒35'16	
	9854 Feb 16 14:28	0°♓	
superior conj	9854 Feb 18 07:47	2°♓52'22	-0°23'23
minimum elong	9854 Feb 18 05:24	2°♓42'26	0°22'48
max. Earth dist.	9854 Feb 24 18:56	13°♓24'56	1.44187 AU
evening rise	9854 Mar 05 09:48	26°♓57'01	
	9854 Mar 07 09:29	0°♈	
	9854 Mar 28 00:50	0°♉	
evening max el	9854 Apr 04 05:10	8°♉33'47	21°00'48
asc. node	9854 Apr 10 02:07	12°♉58'35	
retrograde	9854 Apr 12 17:15	13°♉32'53	
evening set	9854 Apr 16 22:06	11°♉53'31	
inferior conj	9854 Apr 22 05:00	5°♉41'47	3°03'20
minimum elong	9854 Apr 22 03:25	5°♉47'15	3°02'53
min. Earth dist.	9854 Apr 22 15:11	5°♉06'29	0.68266 AU
	9854 Apr 26 18:17	30°℞♈	
morning rise	9854 Apr 27 08:31	29°♈26'22	
direct	9854 May 02 16:03	27°♈05'45	
	9854 May 09 11:18	0°♉	
morning max el	9854 May 13 06:56	3°♉25'38	23°33'44
desc. node	9854 May 14 04:30	4°♉21'16	
	9854 Jun 02 14:13	0°♊	
morning set	9854 Jun 17 09:37	23°♊32'54	
	9854 Jun 21 03:37	0°♋	
max. Earth dist.	9854 Jun 21 08:15	0°♋20'16	1.39015 AU
superior conj	9854 Jun 28 21:23	14°♋00'33	-1°12'57
minimum elong	9854 Jun 29 02:09	14°♋22'55	1°12'37
asc. node	9854 Jul 07 01:00	29°♋38'31	
	9854 Jul 07 05:25	0°♌	
evening rise	9854 Jul 08 03:43	1°♌48'21	
evening max el	9854 Jul 24 08:27	28°♌03'52	18°45'22
	9854 Jul 26 14:26	0°♍	
retrograde	9854 Aug 01 14:47	2°♍10'58	
evening set	9854 Aug 03 14:13	1°♍57'41	
	9854 Aug 08 03:23	30°℞♌	
desc. node	9854 Aug 10 03:31	28°♌40'43	
inferior conj	9854 Aug 11 15:34	27°♌35'51	-0°27'43
minimum elong	9854 Aug 11 14:26	27°♌37'55	0°27'30
min. Earth dist.	9854 Aug 14 19:19	25°♌17'55	0.57002 AU
morning rise	9854 Aug 19 11:15	22°♌32'29	
direct	9854 Aug 25 03:13	21°♌14'22	
morning max el	9854 Sep 08 10:12	28°♌41'09	26°26'17
	9854 Sep 09 17:49	0°♍	
	9854 Sep 30 03:07	0°♎	
asc. node	9854 Oct 03 01:07	5°♎39'19	
morning set	9854 Oct 07 07:16	14°♎26'43	
superior conj	9854 Oct 14 04:17	29°♎31'30	1°30'52
minimum elong	9854 Oct 14 02:34	29°♎21'58	1°30'52
	9854 Oct 14 09:25	0°♏	
max. Earth dist.	9854 Oct 14 18:09	0°♏48'28	1.31710 AU
evening rise	9854 Oct 21 01:55	14°♏33'24	
	9854 Oct 28 21:00	0°♐	
desc. node	9854 Nov 06 01:38	13°♐56'40	
	9854 Nov 18 02:39	0°♑	
evening max el	9854 Nov 21 07:15	3°♑15'20	27°10'51
retrograde	9854 Dec 05 04:30	10°♑26'46	
evening set	9854 Dec 12 04:01	8°♑17'07	
min. Earth dist.	9854 Dec 15 21:52	5°♑33'12	0.60922 AU
inferior conj	9854 Dec 19 00:28	2°♑52'58	-3°28'09
minimum elong	9854 Dec 19 07:15	2°♑38'22	3°25'26
	9854 Dec 22 15:00	30°℞♐	
morning rise	9854 Dec 26 12:57	28°♐00'29	
direct	9854 Dec 28 17:04	27°♐41'21	
asc. node	9854 Dec 30 00:51	27°♐48'43	
	9855 Jan 03 10:38	0°♑	
morning max el	9855 Jan 04 21:26	1°♑17'30	17°57'02
morning set	9855 Jan 20 12:30	25°♑52'11	
	9855 Jan 22 18:34	0°♒	
superior conj	9855 Jan 30 19:49	14°♒27'00	0°16'43
minimum elong	9855 Jan 30 21:14	14°♒33'10	0°16'48
desc. node	9855 Feb 02 00:57	18°♒17'18	
max. Earth dist.	9855 Feb 07 08:50	27°♒15'56	1.42540 AU
	9855 Feb 09 00:48	0°♓	
evening rise	9855 Feb 13 08:05	6°♓55'01	
	9855 Feb 28 14:59	0°♈	
evening max el	9855 Mar 17 23:41	22°♈17'06	22°16'34
retrograde	9855 Mar 27 14:27	27°♈58'29	
asc. node	9855 Mar 27 23:19	27°♈57'48	
evening set	9855 Apr 01 06:07	26°♈03'48	
inferior conj	9855 Apr 06 13:49	19°♈42'27	2°39'38
minimum elong	9855 Apr 06 11:44	19°♈49'44	2°39'03
min. Earth dist.	9855 Apr 06 11:17	19°♈51'17	0.68575 AU
morning rise	9855 Apr 11 17:12	13°♈31'57	
direct	9855 Apr 16 10:59	11°♈31'49	
morning max el	9855 Apr 25 18:55	16°♈59'31	22°05'08
desc. node	9855 May 01 01:24	22°♈56'42	
	9855 May 06 11:19	0°♉	
	9855 May 26 15:55	0°♊	
morning set	9855 May 28 19:47	3°♊27'30	
max. Earth dist.	9855 Jun 03 07:40	12°♊28'57	1.41261 AU
superior conj	9855 Jun 11 01:32	25°♊49'10	-1°42'56
minimum elong	9855 Jun 11 07:44	26°♊16'43	1°42'39
	9855 Jun 13 09:43	0°♋	
evening rise	9855 Jun 21 14:01	15°♋01'56	
asc. node	9855 Jun 23 22:00	19°♋21'20	
	9855 Jun 29 21:43	0°♌	
evening max el	9855 Jul 07 16:04	10°♌40'09	18°15'07
retrograde	9855 Jul 14 20:15	14°♌17'18	
evening set	9855 Jul 17 02:42	13°♌56'18	
inferior conj	9855 Jul 24 08:38	9°♌13'45	1°04'36
minimum elong	9855 Jul 24 10:40	9°♌09'22	1°03'34
min. Earth dist.	9855 Jul 27 17:22	6°♌21'39	0.59084 AU
desc. node	9855 Jul 28 00:42	6°♌06'51	
morning rise	9855 Jul 31 15:22	3°♌36'39	
direct	9855 Aug 06 22:27	1°♌48'36	
morning max el	9855 Aug 21 07:26	9°♌36'21	27°29'51
	9855 Sep 05 23:31	0°♍	
asc. node	9855 Sep 19 22:00	25°♍23'29	
morning set	9855 Sep 21 14:50	28°♍55'53	
	9855 Sep 22 02:59	0°♎	
max. Earth dist.	9855 Sep 28 03:55	13°♎10'22	1.31512 AU
superior conj	9855 Sep 28 16:01	14°♎17'39	1°17'50
minimum elong	9855 Sep 28 13:50	14°♎05'32	1°17'36
evening rise	9855 Oct 05 09:52	29°♎06'51	
	9855 Oct 05 19:50	0°♏	
	9855 Oct 22 05:42	0°♐	
desc. node	9855 Oct 23 22:49	2°♐30'18	
evening max el	9855 Nov 03 06:42	14°♐51'10	26°17'11
retrograde	9855 Nov 17 04:40	21°♐56'01	
evening set	9855 Nov 23 17:26	20°♐12'49	
min. Earth dist.	9855 Nov 27 19:50	17°♐38'11	0.58811 AU
inferior conj	9855 Nov 30 23:41	15°♐16'34	-4°37'26
minimum elong	9855 Dec 01 07:27	15°♐02'01	4°35'08
morning rise	9855 Dec 08 23:58	10°♐46'32	
direct	9855 Dec 11 04:38	10°♐30'08	
asc. node	9855 Dec 16 21:54	12°♐28'49	

morning max el	9855 Dec 19 06:42	14°♐27'20	18°26'53
	9855 Dec 29 22:22	0°♑	
morning set	9856 Jan 04 05:02	9°♑55'12	
superior conj	9856 Jan 13 06:02	27°♑04'30	0°49'27
minimum elong	9856 Jan 13 09:04	27°♑18'31	0°49'22
	9856 Jan 14 20:20	0°♒	
desc. node	9856 Jan 19 21:52	9°♒00'23	
max. Earth dist.	9856 Jan 20 17:48	10°♒26'35	1.40490 AU
evening rise	9856 Jan 25 02:00	17°♒46'33	
	9856 Feb 01 17:12	0°♓	
	9856 Feb 23 03:45	0°♈	
evening max el	9856 Feb 28 14:36	6°♈03'04	23°36'46
retrograde	9856 Mar 10 08:57	12°♈24'17	
asc. node	9856 Mar 13 20:30	11°♈26'16	
evening set	9856 Mar 15 12:19	10°♈15'23	
inferior conj	9856 Mar 20 22:33	3°♈47'44	2°06'37
minimum elong	9856 Mar 20 20:22	3°♈55'14	2°05'57
min. Earth dist.	9856 Mar 20 07:59	4°♈37'39	0.68448 AU
	9856 Mar 23 20:51	30°℞♓	
morning rise	9856 Mar 26 04:24	27°♓43'17	
direct	9856 Mar 30 08:42	26°♓05'14	
	9856 Apr 06 18:07	0°♈	
morning max el	9856 Apr 07 12:50	0°♈45'10	20°44'26
desc. node	9856 Apr 16 22:16	12°♈13'09	
	9856 Apr 29 04:34	0°♉	
morning set	9856 May 07 04:58	12°♉16'09	
max. Earth dist.	9856 May 15 13:25	25°♉30'47	1.43230 AU
	9856 May 18 07:30	0°♊	
superior conj	9856 May 22 07:15	6°♊37'26	-2°05'01
minimum elong	9856 May 22 12:13	6°♊58'20	2°05'06
evening rise	9856 Jun 03 09:04	27°♊32'15	
	9856 Jun 04 18:28	0°♋	
asc. node	9856 Jun 09 19:02	8°♋47'13	
evening max el	9856 Jun 20 04:26	23°♋44'15	18°04'36
retrograde	9856 Jun 26 17:50	27°♋06'43	
evening set	9856 Jun 29 08:02	26°♋34'47	
inferior conj	9856 Jul 05 21:17	21°♋32'36	2°10'28
minimum elong	9856 Jul 06 00:09	21°♋25'30	2°09'18
min. Earth dist.	9856 Jul 08 23:53	18°♋29'05	0.61349 AU
morning rise	9856 Jul 12 13:50	15°♋31'59	
desc. node	9856 Jul 13 21:50	14°♋42'49	
direct	9856 Jul 19 05:33	13°♋15'43	
morning max el	9856 Aug 02 11:27	21°♋16'15	27°56'06
	9856 Aug 10 01:29	0°♌	
	9856 Aug 29 00:52	0°♍	
morning set	9856 Sep 04 17:35	13°♍08'30	
asc. node	9856 Sep 05 18:52	15°♍19'39	
max. Earth dist.	9856 Sep 10 11:45	25°♍24'03	1.31792 AU
superior conj	9856 Sep 12 02:25	28°♍56'17	0°59'40
minimum elong	9856 Sep 12 00:14	28°♍44'17	0°59'15
	9856 Sep 12 13:59	0°♎	
evening rise	9856 Sep 18 20:33	13°♎45'37	
	9856 Sep 26 21:52	0°♏	
desc. node	9856 Oct 09 20:00	20°♏02'34	
evening max el	9856 Oct 14 21:57	25°♏36'45	24°54'33
	9856 Oct 20 11:58	0°♐	
retrograde	9856 Oct 28 18:02	2°♐34'10	
evening set	9856 Nov 03 07:27	1°♐24'37	
	9856 Nov 06 04:53	30°℞♏	
min. Earth dist.	9856 Nov 08 09:29	28°♏40'56	0.56864 AU
inferior conj	9856 Nov 11 02:56	26°♏54'25	-5°28'27
minimum elong	9856 Nov 11 08:04	26°♏46'02	5°27'31
morning rise	9856 Nov 19 10:58	22°♏46'44	
direct	9856 Nov 21 21:36	22°♏29'53	

morning max el	9856 Dec 01 06:16	26°♏58'01	19°18'21
asc. node	9856 Dec 02 18:55	28°♏32'33	
	9856 Dec 04 00:56	0°♐	
morning set	9856 Dec 18 06:17	24°♐20'54	
	9856 Dec 21 02:03	0°♑	
superior conj	9856 Dec 26 09:22	10°♑29'49	1°13'44
minimum elong	9856 Dec 26 12:25	10°♑44'34	1°13'46
max. Earth dist.	9857 Jan 01 23:32	22°♑54'11	1.38291 AU
evening rise	9857 Jan 05 17:29	29°♑34'42	
desc. node	9857 Jan 05 18:48	29°♑40'24	
	9857 Jan 05 23:18	0°♒	
	9857 Jan 25 01:32	0°♓	
evening max el	9857 Feb 10 03:56	19°♓51'26	24°55'06
retrograde	9857 Feb 21 23:33	26°♓44'09	
evening set	9857 Feb 27 15:05	24°♓23'05	
asc. node	9857 Feb 28 17:40	23°♓21'20	
min. Earth dist.	9857 Mar 04 03:02	19°♓20'04	0.67908 AU
inferior conj	9857 Mar 05 05:18	17°♓53'30	1°24'34
minimum elong	9857 Mar 05 03:29	17°♓59'28	1°24'01
morning rise	9857 Mar 10 16:09	11°♓56'28	
direct	9857 Mar 14 07:52	10°♓39'43	
morning max el	9857 Mar 21 14:24	14°♓42'11	19°36'35
	9857 Apr 02 10:39	0°♈	
greatest brilliancy	9857 Apr 03 07:10	1°♈15'06	-0.7m
desc. node	9857 Apr 03 19:06	1°♈59'02	
morning set	9857 Apr 16 03:20	20°♈40'55	
	9857 Apr 22 03:43	0°♉	
max. Earth dist.	9857 Apr 28 01:39	9°♉17'06	1.44694 AU
superior conj	9857 May 02 12:33	16°♉23'05	-2°12'44
minimum elong	9857 May 02 11:59	16°♉20'49	2°13'00
	9857 May 10 20:50	0°♊	
evening rise	9857 May 16 07:59	9°♊07'56	
asc. node	9857 May 27 16:05	27°♊49'34	
	9857 May 29 02:45	0°♋	
evening max el	9857 Jun 03 18:06	7°♋07'01	18°12'59
retrograde	9857 Jun 10 02:58	10°♋29'05	
evening set	9857 Jun 13 00:54	9°♋43'58	
inferior conj	9857 Jun 19 01:24	4°♋23'49	2°52'01
minimum elong	9857 Jun 19 03:41	4°♋17'27	2°51'12
min. Earth dist.	9857 Jun 21 15:34	1°♋31'23	0.63516 AU
	9857 Jun 23 03:06	30°℞♊	
morning rise	9857 Jun 25 04:58	28°♊10'10	
desc. node	9857 Jun 30 18:55	25°♊38'13	
direct	9857 Jul 01 22:15	25°♊33'56	
	9857 Jul 11 20:41	0°♋	
morning max el	9857 Jul 15 19:57	3°♋36'51	27°44'27
	9857 Aug 04 13:45	0°♌	
morning set	9857 Aug 19 13:12	26°♌58'14	
	9857 Aug 21 01:14	0°♍	
asc. node	9857 Aug 23 15:45	5°♍23'04	
max. Earth dist.	9857 Aug 24 13:44	7°♍18'51	1.32563 AU
superior conj	9857 Aug 27 09:34	13°♍21'55	0°36'42
minimum elong	9857 Aug 27 07:56	13°♍13'05	0°36'14
evening rise	9857 Sep 03 08:05	28°♍24'16	
	9857 Sep 04 02:04	0°♎	
	9857 Sep 21 05:03	0°♏	
evening max el	9857 Sep 26 08:55	5°♏50'35	23°16'03
desc. node	9857 Sep 26 17:10	6°♏10'22	
retrograde	9857 Oct 09 18:44	12°♏31'51	
evening set	9857 Oct 13 21:59	11°♏54'37	
min. Earth dist.	9857 Oct 20 18:31	8°♏43'36	0.55387 AU
inferior conj	9857 Oct 22 10:33	7°♏45'11	-5°41'09
minimum elong	9857 Oct 22 08:31	7°♏48'09	5°40'50
morning rise	9857 Oct 30 20:55	3°♏53'54	

direct	9857 Nov 02 19:47	3°♏32'58	
morning max el	9857 Nov 13 17:00	8°♏40'50	20°32'23
asc. node	9857 Nov 19 15:53	15°♏44'32	
	9857 Nov 28 01:14	0°♐	
morning set	9857 Dec 02 13:14	9°♐01'05	
superior conj	9857 Dec 10 01:16	24°♐30'15	1°29'48
minimum elong	9857 Dec 10 03:26	24°♐41'14	1°30'00
	9857 Dec 12 18:55	0°♑	
max. Earth dist.	9857 Dec 15 07:05	4°♑54'15	1.36196 AU
evening rise	9857 Dec 19 04:22	12°♑13'40	
desc. node	9857 Dec 23 15:46	20°♑13'38	
	9857 Dec 29 11:54	0°♒	
	9858 Jan 20 04:58	0°♓	
evening max el	9858 Jan 23 17:19	3°♓39'58	26°04'22
retrograde	9858 Feb 05 09:11	10°♓52'15	
evening set	9858 Feb 11 12:47	8°♓22'13	
asc. node	9858 Feb 15 14:50	4°♓04'14	
min. Earth dist.	9858 Feb 15 18:15	3°♓53'47	0.66979 AU
inferior conj	9858 Feb 17 08:09	1°♓56'03	0°33'40
minimum elong	9858 Feb 17 07:17	1°♓58'43	0°33'32
	9858 Feb 18 22:17	30°♓℞	
morning rise	9858 Feb 23 02:28	26°♒08'17	
direct	9858 Feb 26 06:57	25°♒10'26	
morning max el	9858 Mar 04 23:21	28°♒47'40	18°44'16
	9858 Mar 06 03:13	0°♓	
desc. node	9858 Mar 21 15:55	22°♓06'31	
morning set	9858 Mar 26 14:48	29°♓50'48	
	9858 Mar 26 17:09	0°♈	
max. Earth dist.	9858 Apr 10 19:01	23°♈34'45	1.45496 AU
superior conj	9858 Apr 11 22:49	25°♈23'40	-2°00'50
minimum elong	9858 Apr 11 15:13	24°♈53'52	2°00'32
	9858 Apr 14 21:13	0°♉	
evening rise	9858 Apr 27 07:17	19°♉44'10	
	9858 May 03 16:41	0°♊	
greatest brilliancy	9858 May 04 06:05	0°♊53'33	-0.9m
asc. node	9858 May 14 13:09	16°♊20'37	
evening max el	9858 May 18 06:08	20°♊41'00	18°39'22
retrograde	9858 May 24 19:38	24°♊16'12	
evening set	9858 May 28 01:25	23°♊16'25	
inferior conj	9858 Jun 02 17:00	17°♊39'38	3°13'40
minimum elong	9858 Jun 02 18:07	17°♊36'12	3°13'12
min. Earth dist.	9858 Jun 04 16:11	15°♊15'43	0.65392 AU
morning rise	9858 Jun 08 10:03	11°♊20'36	
direct	9858 Jun 14 22:34	8°♊35'53	
desc. node	9858 Jun 17 15:58	9°♊00'54	
morning max el	9858 Jun 28 06:19	16°♊28'15	26°59'46
	9858 Jul 09 10:53	0°♋	
	9858 Jul 28 09:56	0°♌	
morning set	9858 Aug 02 22:46	10°♌16'29	
max. Earth dist.	9858 Aug 07 06:33	18°♌48'10	1.33840 AU
asc. node	9858 Aug 10 12:36	25°♌28'55	
superior conj	9858 Aug 11 11:16	27°♌27'28	0°09'23
minimum elong	9858 Aug 11 10:48	27°♌24'57	0°09'03
behind sun begin	9858 Aug 11 06:05	27°♌00'15	
behind sun end	9858 Aug 11 15:30	27°♌49'42	
	9858 Aug 12 16:14	0°♍	
evening rise	9858 Aug 18 18:33	12°♍56'30	
	9858 Aug 27 10:48	0°♎	
evening max el	9858 Sep 07 23:54	16°♎05'08	21°38'27
desc. node	9858 Sep 13 14:23	20°♎23'19	
retrograde	9858 Sep 20 08:30	22°♎13'26	
evening set	9858 Sep 23 02:26	21°♎56'20	
inferior conj	9858 Oct 02 04:42	17°♎59'04	-4°58'41
minimum elong	9858 Oct 01 19:51	18°♎11'27	4°56'45
min. Earth dist.	9858 Oct 02 02:03	18°♎02'46	0.54672 AU
morning rise	9858 Oct 10 14:20	14°♎10'12	
direct	9858 Oct 14 05:41	13°♎41'23	
morning max el	9858 Oct 26 14:32	19°♎33'24	22°06'53
	9858 Nov 04 02:56	0°♏	
asc. node	9858 Nov 06 12:49	3°♏48'45	
morning set	9858 Nov 16 23:31	23°♏48'13	
	9858 Nov 19 21:35	0°♐	
superior conj	9858 Nov 24 01:59	8°♐54'20	1°38'22
minimum elong	9858 Nov 24 02:56	8°♐59'20	1°38'41
max. Earth dist.	9858 Nov 27 21:07	16°♐47'45	1.34389 AU
evening rise	9858 Dec 02 06:51	25°♐32'49	
	9858 Dec 04 15:05	0°♑	
desc. node	9858 Dec 10 12:46	10°♑34'43	
	9858 Dec 22 22:46	0°♒	
evening max el	9859 Jan 06 06:51	17°♒20'35	26°57'13
retrograde	9859 Jan 19 13:00	24°♒41'16	
evening set	9859 Jan 26 03:29	22°♒06'55	
min. Earth dist.	9859 Jan 30 03:16	18°♒12'40	0.65677 AU
inferior conj	9859 Feb 01 04:55	15°♒50'12	-0°25'48
minimum elong	9859 Feb 01 05:39	15°♒48'06	0°25'12
asc. node	9859 Feb 02 11:59	14°♒22'21	
morning rise	9859 Feb 07 09:02	10°♒14'13	
direct	9859 Feb 10 03:52	9°♒31'58	
morning max el	9859 Feb 16 13:51	12°♒55'53	18°08'36
	9859 Feb 28 19:28	0°♓	
morning set	9859 Mar 07 06:13	10°♓25'44	
desc. node	9859 Mar 08 12:45	12°♓29'29	
	9859 Mar 19 11:07	0°♈	
superior conj	9859 Mar 22 05:29	4°♈21'38	-1°30'01
minimum elong	9859 Mar 21 20:10	3°♈44'59	1°29'01
max. Earth dist.	9859 Mar 24 15:05	8°♈07'39	1.45553 AU
evening rise	9859 Apr 07 08:28	29°♈29'46	
	9859 Apr 07 16:16	0°♉	
greatest brilliancy	9859 Apr 19 16:16	18°♉27'13	-0.7m
	9859 Apr 27 20:00	0°♊	
asc. node	9859 May 01 10:16	4°♊10'28	
evening max el	9859 May 01 14:17	4°♊20'41	19°22'44
retrograde	9859 May 08 16:38	8°♊21'18	
evening set	9859 May 12 06:42	7°♊06'13	
inferior conj	9859 May 17 16:44	1°♊14'17	3°19'29
minimum elong	9859 May 17 16:38	1°♊14'34	3°19'10
	9859 May 18 15:23	30°℞♉	
min. Earth dist.	9859 May 19 00:47	29°♉29'27	0.66859 AU
morning rise	9859 May 23 02:12	24°♉54'30	
direct	9859 May 29 05:20	22°♉12'36	
desc. node	9859 Jun 04 12:58	24°♉26'40	
morning max el	9859 Jun 10 16:42	29°♉40'10	25°50'13
	9859 Jun 11 00:28	0°♊	
	9859 Jul 03 07:46	0°♋	
morning set	9859 Jul 16 18:38	22°♋54'06	
max. Earth dist.	9859 Jul 20 13:04	29°♋57'45	1.35592 AU
	9859 Jul 20 13:32	0°♌	
superior conj	9859 Jul 26 04:58	11°♌06'29	-0°21'25
minimum elong	9859 Jul 26 06:15	11°♌13'00	0°21'29
asc. node	9859 Jul 28 09:30	15°♌33'45	
evening rise	9859 Aug 03 01:54	27°♌16'49	
	9859 Aug 04 09:52	0°♍	
evening max el	9859 Aug 21 02:29	26°♍52'27	20°15'06
	9859 Aug 24 22:02	0°♎	
desc. node	9859 Aug 31 11:35	2°♎12'54	
retrograde	9859 Aug 31 21:17	2°♎13'19	
evening set	9859 Sep 02 20:36	2°♎03'23	
	9859 Sep 08 13:11	30°℞♍	

inferior conj	9859 Sep 11 22:38	28°♍05'11	-3°25'37
minimum elong	9859 Sep 11 13:44	28°♍18'18	3°22'41
min. Earth dist.	9859 Sep 13 11:09	27°♍11'22	0.54888 AU
morning rise	9859 Sep 20 06:01	23°♍57'49	
direct	9859 Sep 24 15:26	23°♍16'14	
morning max el	9859 Oct 08 03:38	29°♍51'07	23°53'12
	9859 Oct 08 07:24	0°♎	
asc. node	9859 Oct 24 09:45	22°♎32'46	
	9859 Oct 28 07:16	0°♏	
morning set	9859 Nov 01 11:14	8°♏36'58	
superior conj	9859 Nov 08 08:37	23°♏33'41	1°40'12
minimum elong	9859 Nov 08 08:21	23°♏32'17	1°40'29
max. Earth dist.	9859 Nov 10 19:17	28°♏49'32	1.32985 AU
	9859 Nov 11 08:31	0°♐	
evening rise	9859 Nov 15 21:18	9°♐23'01	
desc. node	9859 Nov 27 09:49	0°♑37'53	
	9859 Nov 27 00:48	0°♑	
	9859 Dec 19 01:59	0°♒	
evening max el	9859 Dec 19 19:17	0°♒41'53	27°26'31
retrograde	9860 Jan 02 10:24	8°♒03'00	
evening set	9860 Jan 09 08:52	5°♒30'54	
min. Earth dist.	9860 Jan 13 03:58	2°♒08'48	0.64033 AU
	9860 Jan 15 05:36	30°℞♑	
inferior conj	9860 Jan 15 17:05	29°♑29'56	-1°33'00
minimum elong	9860 Jan 15 20:00	29°♑22'18	1°31'25
asc. node	9860 Jan 20 09:09	25°♑14'42	
morning rise	9860 Jan 22 09:00	24°♑08'34	
direct	9860 Jan 24 20:03	23°♑38'17	
morning max el	9860 Jan 31 07:11	26°♑59'32	17°49'59
	9860 Feb 02 23:02	0°♒	
morning set	9860 Feb 17 01:43	22°♒22'31	
	9860 Feb 21 13:52	0°♓	
desc. node	9860 Feb 23 09:34	3°♓02'55	
superior conj	9860 Mar 01 02:47	14°♓05'22	-0°48'19
minimum elong	9860 Feb 29 21:28	13°♓43'52	0°47'27
max. Earth dist.	9860 Mar 06 10:23	22°♓36'03	1.44873 AU
	9860 Mar 11 03:26	0°♈	
evening rise	9860 Mar 16 20:45	8°♈50'41	
	9860 Mar 30 22:30	0°♉	
evening max el	9860 Apr 13 17:02	18°♉01'40	20°21'21
asc. node	9860 Apr 17 07:27	21°♉05'54	
retrograde	9860 Apr 21 15:20	22°♉37'56	
evening set	9860 Apr 25 14:27	21°♉07'21	
inferior conj	9860 Apr 30 21:47	15°♉02'02	3°12'27
minimum elong	9860 Apr 30 20:40	15°♉05'52	3°12'05
min. Earth dist.	9860 May 01 15:36	14°♉01'07	0.67877 AU
morning rise	9860 May 06 02:38	8°♉44'22	
direct	9860 May 11 17:38	6°♉14'12	
desc. node	9860 May 21 09:56	11°♉24'45	
morning max el	9860 May 23 02:17	13°♉02'37	24°25'28
	9860 Jun 05 18:46	0°♊	
	9860 Jun 25 03:19	0°♋	
morning set	9860 Jun 27 20:03	4°♋38'25	
max. Earth dist.	9860 Jul 01 11:31	11°♋06'29	1.37706 AU
superior conj	9860 Jul 08 11:20	24°♋10'10	-0°54'10
minimum elong	9860 Jul 08 14:50	24°♋27'04	0°53'56
	9860 Jul 11 11:08	0°♌	
asc. node	9860 Jul 14 06:26	5°♌33'16	
evening rise	9860 Jul 17 03:39	11°♌17'48	
	9860 Jul 27 07:20	0°♍	
evening max el	9860 Aug 02 18:37	8°♍25'39	19°12'01
retrograde	9860 Aug 11 21:24	12°♍57'14	
evening set	9860 Aug 13 17:56	12°♍46'45	
desc. node	9860 Aug 17 08:47	11°♍32'18	

inferior conj	9860 Aug 22 06:14	8°♍35'46	-1°30'59
minimum elong	9860 Aug 22 02:13	8°♍42'30	1°29'35
min. Earth dist.	9860 Aug 25 00:09	6°♍45'35	0.56014 AU
morning rise	9860 Aug 30 07:35	3°♍53'40	
direct	9860 Sep 04 12:27	2°♍51'11	
morning max el	9860 Sep 18 15:56	10°♍02'34	25°35'50
	9860 Oct 03 18:13	0°♎	
asc. node	9860 Oct 10 06:39	11°♎46'27	
morning set	9860 Oct 15 22:42	23°♎22'25	
	9860 Oct 19 00:01	0°♏	
superior conj	9860 Oct 22 18:49	8°♏21'14	1°35'55
minimum elong	9860 Oct 22 17:33	8°♏14'12	1°36'03
max. Earth dist.	9860 Oct 24 00:15	11°♏03'22	1.32034 AU
evening rise	9860 Oct 29 20:35	23°♏36'13	
	9860 Nov 02 00:13	0°♐	
desc. node	9860 Nov 13 06:55	20°♐15'37	
	9860 Nov 19 18:22	0°♑	
evening max el	9860 Dec 01 04:43	13°♑31'54	27°26'10
retrograde	9860 Dec 15 00:50	20°♑48'26	
evening set	9860 Dec 22 02:01	18°♑27'32	
min. Earth dist.	9860 Dec 25 18:48	15°♑32'20	0.62107 AU
inferior conj	9860 Dec 28 17:41	12°♑48'14	-2°45'38
minimum elong	9860 Dec 28 23:09	12°♑35'34	2°43'11
morning rise	9861 Jan 04 22:41	7°♑44'35	
asc. node	9861 Jan 06 06:16	7°♑26'17	
direct	9861 Jan 07 04:18	7°♑22'30	
morning max el	9861 Jan 14 00:14	10°♑50'46	17°49'06
	9861 Jan 26 18:52	0°♒	
morning set	9861 Jan 29 19:30	5°♒23'08	
desc. node	9861 Feb 09 06:24	23°♒43'14	
superior conj	9861 Feb 10 00:30	25°♒00'07	-0°05'40
minimum elong	9861 Feb 09 23:59	24°♒57'55	0°05'21
behind sun begin	9861 Feb 09 15:40	24°♒22'37	
behind sun end	9861 Feb 10 08:18	25°♒33'09	
	9861 Feb 12 23:56	0°♓	
max. Earth dist.	9861 Feb 17 02:16	6°♓43'30	1.43540 AU
evening rise	9861 Feb 24 11:22	18°♓25'57	
	9861 Mar 04 01:12	0°♈	
	9861 Mar 25 23:00	0°♉	
evening max el	9861 Mar 27 14:15	1°♉43'58	21°32'07
asc. node	9861 Apr 04 04:39	6°♉52'14	
retrograde	9861 Apr 05 13:38	7°♉01'37	
evening set	9861 Apr 09 22:51	5°♉15'46	
	9861 Apr 14 12:23	30°℞♈	
inferior conj	9861 Apr 15 05:51	28°♈59'24	2°54'30
minimum elong	9861 Apr 15 04:00	29°♈05'49	2°53'59
min. Earth dist.	9861 Apr 15 10:32	28°♈43'04	0.68446 AU
morning rise	9861 Apr 20 08:57	22°♈45'39	
direct	9861 Apr 25 10:34	20°♈33'25	
morning max el	9861 May 05 12:26	26°♈31'54	22°55'30
desc. node	9861 May 08 06:52	29°♈30'23	
	9861 May 08 17:13	0°♉	
	9861 May 30 08:15	0°♊	
morning set	9861 Jun 08 21:41	15°♊15'57	
max. Earth dist.	9861 Jun 13 08:06	22°♊44'15	1.39981 AU
	9861 Jun 17 11:57	0°♋	
superior conj	9861 Jun 21 02:22	6°♋29'16	-1°26'17
minimum elong	9861 Jun 21 07:56	6°♋54'47	1°25'55
evening rise	9861 Jun 30 20:40	24°♋51'22	
asc. node	9861 Jul 01 03:24	25°♋23'32	
	9861 Jul 03 13:43	0°♌	
evening max el	9861 Jul 16 21:48	20°♌42'05	18°30'05
retrograde	9861 Jul 24 15:43	24°♌34'30	
evening set	9861 Jul 26 17:50	24°♌18'29	

inferior conj	9861 Aug 03 10:49	19°♌48'15	0°14'32
minimum elong	9861 Aug 03 11:20	19°♌47'13	0°14'03
transit middle	9861 Aug 03 11:20	19°♌47'13	0°14'03
transit begin	9861 Aug 03 09:35	19°♌50'40	
transit end	9861 Aug 03 13:06	19°♌43'46	
desc. node	9861 Aug 04 06:00	19°♌10'25	
min. Earth dist.	9861 Aug 06 18:33	17°♌12'54	0.57842 AU
morning rise	9861 Aug 11 01:18	14°♌29'19	
direct	9861 Aug 17 00:26	12°♌58'21	
morning max el	9861 Aug 31 09:04	20°♌35'59	26°57'28
	9861 Sep 08 11:57	0°♍	
	9861 Sep 26 11:19	0°♎	
asc. node	9861 Sep 27 03:30	1°♎21'27	
morning set	9861 Sep 30 08:10	7°♎59'03	
superior conj	9861 Oct 07 06:32	23°♎09'55	1°25'59
minimum elong	9861 Oct 07 04:34	22°♎58'59	1°25'54
max. Earth dist.	9861 Oct 07 09:10	23°♎24'36	1.31562 AU
	9861 Oct 10 08:32	0°♏	
evening rise	9861 Oct 14 02:01	8°♏04'29	
	9861 Oct 25 10:21	0°♐	
desc. node	9861 Oct 31 04:04	9°♐16'52	
evening max el	9861 Nov 13 08:39	25°♐38'04	26°52'08
	9861 Nov 18 20:46	0°♑	
retrograde	9861 Nov 27 06:54	2°♑47'15	
evening set	9861 Dec 04 02:56	0°♑47'50	
	9861 Dec 05 10:06	30°℞♐	
min. Earth dist.	9861 Dec 07 23:03	28°♐09'34	0.60016 AU
inferior conj	9861 Dec 11 03:13	25°♐35'05	-3°58'45
minimum elong	9861 Dec 11 10:42	25°♐19'52	3°56'04
morning rise	9861 Dec 18 21:03	20°♐51'52	
direct	9861 Dec 21 00:37	20°♐34'26	
asc. node	9861 Dec 24 03:21	21°♐12'51	
morning max el	9861 Dec 28 13:24	24°♐18'48	18°07'08
	9862 Jan 02 04:38	0°♑	
morning set	9862 Jan 13 05:12	19°♑07'48	
	9862 Jan 19 01:17	0°♒	
superior conj	9862 Jan 22 22:31	7°♒03'12	0°31'35
minimum elong	9862 Jan 23 00:52	7°♒13'43	0°31'34
desc. node	9862 Jan 27 03:17	14°♒26'14	
max. Earth dist.	9862 Jan 30 13:35	20°♒16'44	1.41703 AU
evening rise	9862 Feb 04 17:23	28°♒45'45	
	9862 Feb 05 11:52	0°♓	
	9862 Feb 25 15:37	0°♈	
evening max el	9862 Mar 10 07:02	15°♈28'24	22°50'34
retrograde	9862 Mar 20 09:49	21°♈27'30	
asc. node	9862 Mar 22 01:51	21°♈13'53	
evening set	9862 Mar 25 06:15	19°♈26'52	
inferior conj	9862 Mar 30 14:51	13°♈02'27	2°26'46
minimum elong	9862 Mar 30 12:40	13°♈10'03	2°26'07
min. Earth dist.	9862 Mar 30 07:13	13°♈28'55	0.68573 AU
morning rise	9862 Apr 04 18:56	6°♈54'09	
direct	9862 Apr 09 06:57	5°♈03'08	
morning max el	9862 Apr 18 02:25	10°♈09'45	21°29'23
desc. node	9862 Apr 25 03:44	18°♈24'43	
	9862 May 03 13:38	0°♉	
morning set	9862 May 19 20:23	24°♉39'35	
	9862 May 23 04:31	0°♊	
max. Earth dist.	9862 May 26 09:31	5°♊14'02	1.42144 AU
superior conj	9862 Jun 02 21:28	17°♊53'29	-1°53'39
minimum elong	9862 Jun 03 03:37	18°♊20'05	1°53'29
	9862 Jun 09 17:53	0°♋	
evening rise	9862 Jun 14 01:01	7°♋47'42	
asc. node	9862 Jun 18 00:25	15°♋00'00	
	9862 Jun 27 06:51	0°♌	
evening max el	9862 Jun 30 07:59	3°♌32'10	18°08'25
retrograde	9862 Jul 07 04:22	7°♌00'52	
evening set	9862 Jul 09 14:14	6°♌35'27	
inferior conj	9862 Jul 16 12:38	1°♌44'34	1°35'44
minimum elong	9862 Jul 16 15:15	1°♌38'33	1°34'32
	9862 Jul 18 10:09	30°℞♋	
min. Earth dist.	9862 Jul 19 19:56	28°♋44'44	0.60042 AU
desc. node	9862 Jul 22 03:09	26°♋53'57	
morning rise	9862 Jul 23 13:21	25°♋56'27	
direct	9862 Jul 30 01:13	23°♋55'34	
	9862 Aug 11 10:31	0°♌	
morning max el	9862 Aug 13 09:05	1°♌49'31	27°45'45
	9862 Sep 02 20:13	0°♍	
asc. node	9862 Sep 14 00:21	21°♍11'44	
morning set	9862 Sep 14 13:56	22°♍22'20	
	9862 Sep 18 03:43	0°♎	
max. Earth dist.	9862 Sep 20 18:34	5°♎44'52	1.31573 AU
superior conj	9862 Sep 21 17:57	7°♎54'19	1°10'45
minimum elong	9862 Sep 21 15:42	7°♎41'54	1°10'27
evening rise	9862 Sep 28 11:24	22°♎41'48	
	9862 Oct 01 23:06	0°♏	
desc. node	9862 Oct 18 01:14	27°♏27'21	
	9862 Oct 19 23:53	0°♐	
evening max el	9862 Oct 26 04:48	6°♐53'13	25°45'05
retrograde	9862 Nov 09 02:29	13°♐54'31	
evening set	9862 Nov 15 06:51	12°♐25'27	
min. Earth dist.	9862 Nov 19 17:20	9°♐49'07	0.57953 AU
inferior conj	9862 Nov 22 18:14	7°♐40'52	-5°02'23
minimum elong	9862 Nov 23 01:27	7°♐28'06	5°00'35
morning rise	9862 Nov 30 22:23	3°♐20'06	
direct	9862 Dec 03 04:53	3°♐03'53	
asc. node	9862 Dec 11 00:21	6°♐30'22	
morning max el	9862 Dec 11 18:55	7°♐13'14	18°45'54
	9862 Dec 26 08:17	0°♑	
morning set	9862 Dec 28 01:53	3°♑22'07	
superior conj	9863 Jan 05 16:36	20°♑02'39	1°00'46
minimum elong	9863 Jan 05 19:48	20°♑17'42	1°00'43
	9863 Jan 11 02:22	0°♒	
max. Earth dist.	9863 Jan 12 20:59	3°♒09'26	1.39570 AU
desc. node	9863 Jan 14 00:11	5°♒08'30	
evening rise	9863 Jan 16 20:37	10°♒02'09	
	9863 Jan 29 09:21	0°♓	
evening max el	9863 Feb 20 21:13	29°♓16'07	24°10'45
	9863 Feb 21 15:14	0°♈	
retrograde	9863 Mar 04 02:36	5°♈51'13	
asc. node	9863 Mar 08 23:02	4°♈01'33	
evening set	9863 Mar 09 11:08	3°♈36'59	
	9863 Mar 12 19:12	30°℞♓	
min. Earth dist.	9863 Mar 14 03:26	28°♓14'03	0.68275 AU
inferior conj	9863 Mar 14 22:57	27°♓08'11	1°49'51
minimum elong	9863 Mar 14 20:51	27°♓15'16	1°49'13
morning rise	9863 Mar 20 06:37	21°♓06'43	
direct	9863 Mar 24 05:32	19°♓37'45	
morning max el	9863 Mar 31 23:22	23°♓59'46	20°13'43
	9863 Apr 06 04:38	0°♈	
desc. node	9863 Apr 12 00:35	7°♈54'38	
	9863 Apr 26 20:54	0°♉	
morning set	9863 Apr 28 22:14	3°♉09'43	
max. Earth dist.	9863 May 08 18:30	18°♉37'37	1.43929 AU
superior conj	9863 May 14 16:41	28°♉14'20	-2°10'26
minimum elong	9863 May 14 19:50	28°♉27'15	2°10'40
	9863 May 15 18:19	0°♊	
evening rise	9863 May 27 12:00	19°♊55'32	
	9863 Jun 02 08:11	0°♋	

asc. node	9863 Jun 04 21:27	4°♋16'33	
evening max el	9863 Jun 13 21:17	16°♋44'59	18°05'57
retrograde	9863 Jun 20 07:25	20°♋05'27	
evening set	9863 Jun 23 01:01	19°♋27'58	
inferior conj	9863 Jun 29 08:18	14°♋17'43	2°30'50
minimum elong	9863 Jun 29 11:02	14°♋10'34	2°29'47
min. Earth dist.	9863 Jul 02 06:01	11°♋16'45	0.62293 AU
morning rise	9863 Jul 05 19:06	8°♋10'40	
desc. node	9863 Jul 09 00:16	6°♋24'03	
direct	9863 Jul 12 12:20	5°♋44'57	
morning max el	9863 Jul 26 15:12	13°♋46'59	27°55'45
	9863 Aug 08 16:03	0°♌	
	9863 Aug 26 08:25	0°♍	
morning set	9863 Aug 29 13:55	6°♍25'45	
asc. node	9863 Aug 31 21:12	11°♍11'20	
max. Earth dist.	9863 Sep 04 00:32	17°♍52'25	1.32062 AU
superior conj	9863 Sep 06 03:10	22°♍27'52	0°50'31
minimum elong	9863 Sep 06 01:09	22°♍16'48	0°50'03
	9863 Sep 09 13:31	0°♎	
evening rise	9863 Sep 12 22:39	7°♎21'15	
	9863 Sep 24 15:27	0°♏	
desc. node	9863 Oct 04 22:26	14°♏26'56	
evening max el	9863 Oct 07 17:27	17°♏21'49	24°13'34
retrograde	9863 Oct 21 10:06	24°♏13'25	
evening set	9863 Oct 26 10:14	23°♏18'17	
min. Earth dist.	9863 Nov 01 04:10	20°♏25'18	0.56169 AU
inferior conj	9863 Nov 03 12:45	18°♏58'03	-5°39'44
minimum elong	9863 Nov 03 15:17	18°♏54'09	5°39'18
morning rise	9863 Nov 11 22:24	14°♏58'39	
direct	9863 Nov 14 13:49	14°♏40'22	
morning max el	9863 Nov 24 13:11	19°♏23'56	19°47'04
asc. node	9863 Nov 27 21:19	23°♏04'48	
	9863 Dec 02 16:10	0°♐	
morning set	9863 Dec 12 05:53	17°♐55'12	
	9863 Dec 18 04:49	0°♑	
superior conj	9863 Dec 20 01:48	3°♑44'33	1°21'31
minimum elong	9863 Dec 20 04:32	3°♑58'07	1°21'37
max. Earth dist.	9863 Dec 26 03:16	15°♑24'49	1.37380 AU
evening rise	9863 Dec 29 20:44	22°♑12'52	
desc. node	9863 Dec 31 21:07	25°♑46'13	
	9864 Jan 03 08:13	0°♒	
	9864 Jan 23 05:57	0°♓	
evening max el	9864 Feb 03 10:29	13°♓05'31	25°26'02
retrograde	9864 Feb 15 15:05	20°♓07'33	
evening set	9864 Feb 21 11:58	17°♓41'59	
asc. node	9864 Feb 23 20:12	15°♓22'10	
min. Earth dist.	9864 Feb 25 21:00	12°♓54'01	0.67566 AU
inferior conj	9864 Feb 27 04:16	11°♓13'20	1°04'02
minimum elong	9864 Feb 27 02:48	11°♓18'07	1°03'38
morning rise	9864 Mar 03 18:02	5°♓20'16	
direct	9864 Mar 07 04:50	4°♓11'56	
morning max el	9864 Mar 14 04:19	8°♓01'47	19°12'24
greatest brilliancy	9864 Mar 27 05:36	25°♓20'53	-0.7m
desc. node	9864 Mar 28 21:24	27°♓50'45	
	9864 Mar 30 07:28	0°♈	
morning set	9864 Apr 06 23:31	11°♈46'53	
	9864 Apr 18 16:37	0°♉	
max. Earth dist.	9864 Apr 20 09:47	2°♉41'39	1.45124 AU
superior conj	9864 Apr 23 12:37	7°♉37'06	-2°10'14
minimum elong	9864 Apr 23 08:50	7°♉22'07	2°10'21
	9864 May 07 08:59	0°♊	
evening rise	9864 May 08 01:11	1°♊06'42	
asc. node	9864 May 21 18:32	23°♊06'48	
	9864 May 27 05:23	0°♋	
evening max el	9864 May 27 10:31	0°♋12'57	18°21'58
retrograde	9864 Jun 02 20:21	3°♋39'19	
evening set	9864 Jun 05 21:33	2°♋48'04	
	9864 Jun 09 08:21	30°℞♊	
inferior conj	9864 Jun 11 17:47	27°♊20'23	3°03'22
minimum elong	9864 Jun 11 19:36	27°♊15'04	3°02'43
min. Earth dist.	9864 Jun 14 01:36	24°♊38'29	0.64355 AU
morning rise	9864 Jun 17 16:30	21°♊03'29	
direct	9864 Jun 24 08:14	18°♊22'29	
desc. node	9864 Jun 24 21:21	18°♊23'29	
morning max el	9864 Jul 08 01:04	26°♊22'45	27°29'09
	9864 Jul 11 09:42	0°♋	
	9864 Aug 01 06:33	0°♌	
morning set	9864 Aug 12 05:38	20°♌02'44	
max. Earth dist.	9864 Aug 16 23:07	29°♌37'03	1.33045 AU
	9864 Aug 17 03:32	0°♍	
asc. node	9864 Aug 17 18:04	1°♍15'56	
superior conj	9864 Aug 20 08:15	6°♍45'01	0°25'36
minimum elong	9864 Aug 20 07:01	6°♍38'29	0°25'10
evening rise	9864 Aug 27 09:57	21°♍57'21	
	9864 Aug 31 06:56	0°♎	
evening max el	9864 Sep 18 04:41	27°♎30'06	22°33'24
desc. node	9864 Sep 20 19:38	29°♎49'27	
	9864 Sep 21 01:01	0°♏	
retrograde	9864 Oct 01 05:52	4°♏00'23	
evening set	9864 Oct 04 17:53	3°♏33'24	
min. Earth dist.	9864 Oct 12 11:57	0°♏06'00	0.54972 AU
	9864 Oct 12 16:11	30°℞♎	
inferior conj	9864 Oct 13 13:19	29°♎30'00	-5°30'17
minimum elong	9864 Oct 13 07:52	29°♎37'45	5°29'30
morning rise	9864 Oct 21 23:38	25°♎42'22	
direct	9864 Oct 25 04:59	25°♎18'45	
	9864 Nov 04 22:20	0°♏	
morning max el	9864 Nov 05 18:09	0°♏44'51	21°10'31
asc. node	9864 Nov 13 18:17	10°♏40'30	
	9864 Nov 24 07:42	0°♐	
morning set	9864 Nov 25 14:29	2°♐39'05	
superior conj	9864 Dec 02 21:51	17°♐56'29	1°34'18
minimum elong	9864 Dec 02 23:31	18°♐05'05	1°34'34
max. Earth dist.	9864 Dec 07 12:59	27°♐19'04	1.35378 AU
	9864 Dec 08 21:49	0°♑	
evening rise	9864 Dec 11 14:40	5°♑09'56	
desc. node	9864 Dec 17 18:05	16°♑14'51	
	9864 Dec 26 03:56	0°♒	
evening max el	9865 Jan 15 23:44	26°♒51'06	26°29'13
	9865 Jan 19 13:17	0°♓	
retrograde	9865 Jan 28 22:28	4°♓08'55	
evening set	9865 Feb 04 06:59	1°♓36'02	
	9865 Feb 06 00:57	30°℞♒	
min. Earth dist.	9865 Feb 08 09:48	27°♒22'28	0.66468 AU
asc. node	9865 Feb 09 17:22	25°♒47'36	
inferior conj	9865 Feb 10 04:49	25°♒12'58	0°09'26
minimum elong	9865 Feb 10 04:33	25°♒13'46	0°09'35
transit middle	9865 Feb 10 04:33	25°♒13'46	0°09'35
transit begin	9865 Feb 10 02:14	25°♒20'47	
transit end	9865 Feb 10 06:53	25°♒06'45	
morning rise	9865 Feb 16 03:04	19°♒30'09	
direct	9865 Feb 19 03:09	18°♒39'33	
morning max el	9865 Feb 25 16:02	22°♒09'51	18°27'03
	9865 Mar 04 00:05	0°♓	
desc. node	9865 Mar 15 18:11	18°♓05'19	
morning set	9865 Mar 17 22:00	21°♓30'50	
	9865 Mar 23 06:39	0°♈	
superior conj	9865 Apr 02 19:03	16°♈30'31	-1°49'45

minimum elong	9865 Apr 02 09:49	15°♈54'26	1°49'04
max. Earth dist.	9865 Apr 03 04:21	17°♈06'52	1.45610 AU
	9865 Apr 11 09:55	0°♉	
evening rise	9865 Apr 18 14:31	11°♉19'20	
greatest brilliancy	9865 Apr 28 03:02	26°♉18'42	-0.8m
	9865 Apr 30 12:34	0°♊	
asc. node	9865 May 08 15:39	11°♊21'47	
evening max el	9865 May 10 21:04	13°♊49'34	18°55'47
retrograde	9865 May 17 15:18	17°♊34'34	
evening set	9865 May 21 00:25	16°♊28'31	
inferior conj	9865 May 26 13:15	10°♊45'06	3°17'51
minimum elong	9865 May 26 13:51	10°♊43'12	3°17'28
min. Earth dist.	9865 May 28 05:59	8°♊36'37	0.66068 AU
morning rise	9865 Jun 01 02:41	4°♊24'59	
direct	9865 Jun 07 11:36	1°♊40'02	
desc. node	9865 Jun 11 18:22	2°♊41'57	
morning max el	9865 Jun 20 11:46	9°♊24'39	26°32'36
	9865 Jul 06 15:55	0°♋	
	9865 Jul 24 18:14	0°♌	
morning set	9865 Jul 26 09:55	3°♌05'12	
max. Earth dist.	9865 Jul 30 11:20	10°♌55'28	1.34523 AU
superior conj	9865 Aug 04 06:54	20°♌40'01	-0°03'21
minimum elong	9865 Aug 04 07:06	20°♌41'04	0°03'36
behind sun begin	9865 Aug 04 01:22	20°♌11'30	
behind sun end	9865 Aug 04 12:49	21°♌10'40	
asc. node	9865 Aug 04 14:59	21°♌21'51	
	9865 Aug 08 18:00	0°♍	
evening rise	9865 Aug 11 19:22	6°♍25'00	
	9865 Aug 24 14:20	0°♎	
evening max el	9865 Aug 30 24:00	7°♎55'52	21°00'51
desc. node	9865 Sep 07 16:51	13°♎04'32	
retrograde	9865 Sep 11 18:00	13°♎45'29	
evening set	9865 Sep 14 01:28	13°♎32'52	
inferior conj	9865 Sep 23 05:38	9°♎37'04	-4°24'09
minimum elong	9865 Sep 22 19:50	9°♎50'55	4°21'29
min. Earth dist.	9865 Sep 23 20:18	9°♎16'17	0.54635 AU
morning rise	9865 Oct 01 14:28	5°♎42'29	
direct	9865 Oct 05 13:04	5°♎09'05	
morning max el	9865 Oct 18 11:26	11°♎20'44	22°51'30
asc. node	9865 Oct 31 15:13	29°♎03'14	
	9865 Nov 01 04:12	0°♏	
morning set	9865 Nov 10 01:38	17°♏27'53	
	9865 Nov 15 21:43	0°♐	
superior conj	9865 Nov 17 01:28	2°♐28'45	1°39'55
minimum elong	9865 Nov 17 01:53	2°♐31'01	1°40'15
max. Earth dist.	9865 Nov 20 06:14	9°♐14'11	1.33732 AU
evening rise	9865 Nov 24 22:43	18°♐44'11	
	9865 Nov 30 22:11	0°♑	
desc. node	9865 Dec 04 15:08	6°♑29'34	
	9865 Dec 20 08:02	0°♒	
evening max el	9865 Dec 29 12:59	10°♒25'26	27°12'57
retrograde	9866 Jan 11 23:55	17°♒47'50	
evening set	9866 Jan 18 18:06	15°♒13'32	
min. Earth dist.	9866 Jan 22 15:42	11°♒33'09	0.65016 AU
inferior conj	9866 Jan 24 22:19	9°♒02'23	-0°53'26
minimum elong	9866 Jan 24 23:54	8°♒57'58	0°52'25
asc. node	9866 Jan 27 14:31	6°♒13'56	
morning rise	9866 Jan 31 07:14	3°♒32'08	
direct	9866 Feb 02 22:24	2°♒55'33	
morning max el	9866 Feb 09 08:07	6°♒17'27	17°58'28
	9866 Feb 25 10:37	0°♓	
morning set	9866 Feb 27 01:54	2°♓42'23	
desc. node	9866 Mar 02 15:01	8°♓33'15	
superior conj	9866 Mar 13 06:05	25°♓43'22	-1°13'02
minimum elong	9866 Mar 12 22:03	25°♓11'26	1°12'00
	9866 Mar 15 22:59	0°♈	
max. Earth dist.	9866 Mar 16 23:52	1°♈37'51	1.45355 AU
evening rise	9866 Mar 29 08:31	20°♈49'41	
	9866 Apr 04 08:05	0°♉	
greatest brilliancy	9866 Apr 12 11:12	12°♉14'10	-0.6m
evening max el	9866 Apr 24 03:05	27°♉30'14	19°46'00
asc. node	9866 Apr 25 12:49	28°♉50'14	
	9866 Apr 26 23:40	0°♊	
retrograde	9866 May 01 13:13	1°♊44'54	
evening set	9866 May 05 06:59	0°♊23'23	
	9866 May 05 19:05	30°℞♉	
inferior conj	9866 May 10 15:35	24°♉25'46	3°17'55
minimum elong	9866 May 10 15:01	24°♉27'38	3°17'35
min. Earth dist.	9866 May 11 17:33	22°♉59'00	0.67354 AU
morning rise	9866 May 15 22:43	18°♉06'34	
direct	9866 May 21 21:02	15°♉28'22	
desc. node	9866 May 29 15:21	18°♉50'09	
morning max el	9866 Jun 02 21:35	22°♉41'04	25°15'15
	9866 Jun 09 07:54	0°♊	
	9866 Jun 29 23:25	0°♋	
morning set	9866 Jul 08 22:32	15°♋21'33	
max. Earth dist.	9866 Jul 12 13:25	21°♋59'14	1.36454 AU
	9866 Jul 16 18:18	0°♌	
superior conj	9866 Jul 18 20:14	4°♌05'05	-0°35'13
minimum elong	9866 Jul 18 22:26	4°♌15'59	0°35'08
asc. node	9866 Jul 22 11:55	11°♌24'49	
evening rise	9866 Jul 27 00:40	20°♌37'35	
	9866 Jul 31 18:15	0°♍	
evening max el	9866 Aug 13 08:36	19°♍02'34	19°45'44
retrograde	9866 Aug 23 09:44	24°♍01'14	
evening set	9866 Aug 25 06:27	23°♍51'45	
desc. node	9866 Aug 25 14:05	23°♍48'17	
inferior conj	9866 Sep 03 03:54	19°♍49'46	-2°37'33
minimum elong	9866 Sep 02 20:49	20°♍00'43	2°35'03
min. Earth dist.	9866 Sep 05 06:53	18°♍31'07	0.55262 AU
morning rise	9866 Sep 11 09:18	15°♍28'56	
direct	9866 Sep 16 03:16	14°♍39'13	
morning max el	9866 Sep 29 23:03	21°♍30'56	24°38'23
	9866 Oct 07 08:29	0°♎	
asc. node	9866 Oct 18 12:07	18°♎00'37	
	9866 Oct 24 11:56	0°♏	
morning set	9866 Oct 25 13:26	2°♏15'19	
superior conj	9866 Nov 01 09:52	17°♏11'57	1°39'05
minimum elong	9866 Nov 01 09:09	17°♏08'00	1°39'20
max. Earth dist.	9866 Nov 03 07:34	21°♏20'54	1.32522 AU
	9866 Nov 07 09:15	0°♐	
evening rise	9866 Nov 08 17:18	2°♐45'02	
desc. node	9866 Nov 21 12:14	26°♐22'52	
	9866 Nov 23 17:54	0°♑	
evening max el	9866 Dec 12 00:41	23°♑35'39	27°30'24
	9866 Dec 21 06:20	0°♒	
retrograde	9866 Dec 25 18:26	0°♒54'46	
	9866 Dec 30 01:04	30°℞♑	
evening set	9867 Jan 01 18:41	28°♑26'39	
min. Earth dist.	9867 Jan 05 12:32	25°♑16'32	0.63244 AU
inferior conj	9867 Jan 08 05:59	22°♑34'08	-2°03'17
minimum elong	9867 Jan 08 09:58	22°♑24'13	2°01'19
asc. node	9867 Jan 14 11:38	17°♑35'56	
morning rise	9867 Jan 15 03:20	17°♑19'34	
direct	9867 Jan 17 11:45	16°♑53'09	
morning max el	9867 Jan 24 01:40	20°♑16'24	17°47'18
	9867 Jan 31 08:52	0°♒	
morning set	9867 Feb 09 07:46	15°♒09'13	
desc. node	9867 Feb 17 11:51	29°♒10'02	

	9867 Feb 17	23:44	0°♓		
superior conj	9867 Feb 21	13:14	5°♓55'50	-0°29'52	
minimum elong	9867 Feb 21	10:06	5°♓42'55	0°29'13	
max. Earth dist.	9867 Feb 27	18:12	16°♓00'04	1.44388 AU	
evening rise	9867 Mar 08	19:57	0°♈12'35		
	9867 Mar 08	16:41	0°♈		
	9867 Mar 29	00:55	0°♉		
evening max el	9867 Apr 07	03:34	11°♉12'28	20°50'14	
asc. node	9867 Apr 12	10:00	15°♉18'28		
retrograde	9867 Apr 15	11:52	16°♉05'19		
evening set	9867 Apr 19	15:14	14°♉28'09		
inferior conj	9867 Apr 24	22:10	8°♉18'02	3°06'05	
minimum elong	9867 Apr 24	20:42	8°♉23'05	3°05'39	
min. Earth dist.	9867 Apr 25	10:17	7°♉36'10	0.68182 AU	
morning rise	9867 Apr 30	01:57	2°♉02'05		
	9867 May 03	08:36	30°℞♈		
direct	9867 May 05	11:28	29°♈38'52		
	9867 May 07	17:04	0°♉		
morning max el	9867 May 16	06:58	6°♉06'08	23°47'13	
desc. node	9867 May 16	12:18	6°♉19'41		
	9867 Jun 03	19:03	0°♊		
morning set	9867 Jun 20	14:27	26°♊38'55		
	9867 Jun 22	13:12	0°♋		
max. Earth dist.	9867 Jun 24	10:27	3°♋18'00	1.38675 AU	
superior conj	9867 Jul 01	20:40	16°♋51'34	-1°08'05	
minimum elong	9867 Jul 02	01:07	17°♋12'36	1°07'44	
	9867 Jul 08	16:17	0°♌		
asc. node	9867 Jul 09	08:53	1°♌21'14		
evening rise	9867 Jul 10	23:08	4°♌28'19		
	9867 Jul 26	08:40	0°♍		
evening max el	9867 Jul 27	05:55	0°♍55'09	18°51'34	
retrograde	9867 Aug 04	17:12	5°♍08'12		
evening set	9867 Aug 06	15:44	4°♍55'47		
desc. node	9867 Aug 12	11:17	2°♍14'47		
inferior conj	9867 Aug 14	19:59	0°♍36'42	-0°43'46	
minimum elong	9867 Aug 14	18:09	0°♍39'59	0°43'17	
	9867 Aug 15	16:22	30°℞♌		
min. Earth dist.	9867 Aug 17	21:37	28°♌25'37	0.56729 AU	
morning rise	9867 Aug 22	17:17	25°♌38'52		
direct	9867 Aug 28	06:28	24°♌25'03		
	9867 Sep 09	13:17	0°♍		
morning max el	9867 Sep 11	12:46	1°♍47'51	26°14'05	
	9867 Oct 01	11:50	0°♎		
asc. node	9867 Oct 05	09:01	7°♎24'03		
morning set	9867 Oct 10	00:14	16°♎57'06		
	9867 Oct 15	23:17	0°♏		
superior conj	9867 Oct 16	20:55	1°♏59'58	1°32'21	
minimum elong	9867 Oct 16	19:18	1°♏51'02	1°32'25	
max. Earth dist.	9867 Oct 17	14:47	3°♏39'04	1.31779 AU	
evening rise	9867 Oct 23	19:29	17°♏04'57		
	9867 Oct 30	06:41	0°♐		
desc. node	9867 Nov 08	09:21	15°♐46'09		
	9867 Nov 18	15:14	0°♑		
evening max el	9867 Nov 24	08:10	6°♑08'00	27°15'54	
retrograde	9867 Dec 08	05:04	13°♑20'40		
evening set	9867 Dec 15	05:22	11°♑07'45		
min. Earth dist.	9867 Dec 18	22:42	8°♑21'22	0.61231 AU	
inferior conj	9867 Dec 22	00:33	5°♑39'40	-3°17'01	
minimum elong	9867 Dec 22	07:01	5°♑25'29	3°14'22	
morning rise	9867 Dec 29	11:08	0°♑44'16		
direct	9867 Dec 31	15:33	0°♑24'27		
asc. node	9868 Jan 01	08:44	0°♑26'38		
morning max el	9868 Jan 07	17:25	3°♑58'09	17°54'24	
morning set	9868 Jan 23	08:59	28°♑30'26		
	9868 Jan 24	04:39	0°♒		
superior conj	9868 Feb 02	21:37	17°♒20'27	0°11'02	
minimum elong	9868 Feb 02	22:36	17°♒24'42	0°11'11	
behind sun begin	9868 Feb 02	16:37	16°♒58'46		
behind sun end	9868 Feb 03	04:34	17°♒50'34		
desc. node	9868 Feb 04	08:42	19°♒51'42		
	9868 Feb 10	09:40	0°♓		
max. Earth dist.	9868 Feb 10	08:46	29°♒56'17	1.42812 AU	
evening rise	9868 Feb 16	15:53	10°♓03'54		
	9868 Feb 29	19:33	0°♈		
evening max el	9868 Mar 19	22:41	24°♈55'23	22°04'49	
	9868 Mar 26	19:38	0°♉		
retrograde	9868 Mar 29	09:23	0°♉30'44		
asc. node	9868 Mar 29	07:10	0°♉30'41		
	9868 Mar 31	19:36	30°℞♈		
evening set	9868 Apr 02	23:23	28°♈38'12		
inferior conj	9868 Apr 08	06:50	22°♈17'59	2°43'53	
minimum elong	9868 Apr 08	04:48	22°♈25'05	2°43'18	
min. Earth dist.	9868 Apr 08	06:07	22°♈20'29	0.68557 AU	
morning rise	9868 Apr 13	10:04	16°♈06'37		
direct	9868 Apr 18	05:51	14°♈03'23		
morning max el	9868 Apr 27	18:25	19°♈39'00	22°17'59	
desc. node	9868 May 02	09:11	24°♈47'49		
	9868 May 06	11:41	0°♉		
	9868 May 26	23:26	0°♊		
morning set	9868 May 31	04:40	6°♊44'41		
max. Earth dist.	9868 Jun 05	09:02	15°♊18'30	1.40938 AU	
superior conj	9868 Jun 13	03:43	28°♊48'06	-1°38'47	
minimum elong	9868 Jun 13	09:50	29°♊15'27	1°38'27	
	9868 Jun 13	19:47	0°♋		
evening rise	9868 Jun 23	11:16	17°♋47'17		
asc. node	9868 Jun 25	05:52	21°♋06'07		
	9868 Jun 30	03:20	0°♌		
evening max el	9868 Jul 09	12:26	13°♌26'15	18°18'21	
retrograde	9868 Jul 16	19:54	17°♌07'03		
evening set	9868 Jul 19	01:08	16°♌47'29		
inferior conj	9868 Jul 26	09:52	12°♌08'04	0°52'17	
minimum elong	9868 Jul 26	11:35	12°♌04'27	0°51'21	
desc. node	9868 Jul 29	08:28	9°♌40'09		
min. Earth dist.	9868 Jul 29	18:43	9°♌19'32	0.58752 AU	
morning rise	9868 Aug 02	18:39	6°♌35'14		
direct	9868 Aug 08	23:46	4°♌51'37		
morning max el	9868 Aug 23	08:59	12°♌37'14	27°22'40	
	9868 Sep 06	02:10	0°♍		
asc. node	9868 Sep 21	05:53	27°♍06'06		
	9868 Sep 22	15:30	0°♎		
morning set	9868 Sep 23	08:22	1°♎28'30		
superior conj	9868 Sep 30	08:41	16°♎47'01	1°20'09	
minimum elong	9868 Sep 30	06:33	16°♎35'07	1°19'58	
max. Earth dist.	9868 Sep 30	00:27	16°♎01'13	1.31505 AU	
	9868 Oct 06	08:41	0°♏		
evening rise	9868 Oct 07	02:49	1°♏37'13		
	9868 Oct 22	07:36	0°♐		
desc. node	9868 Oct 25	06:31	4°♐27'46		
evening max el	9868 Nov 05	08:46	17°♐51'51	26°27'17	
retrograde	9868 Nov 19	06:56	24°♐58'07		
evening set	9868 Nov 25	21:58	23°♐10'19		
min. Earth dist.	9868 Nov 29	22:14	20°♐35'22	0.59117 AU	
inferior conj	9868 Dec 03	02:33	18°♐09'46	-4°27'47	
minimum elong	9868 Dec 03	10:21	17°♐54'50	4°25'19	
morning rise	9868 Dec 11	01:17	13°♐36'24		
direct	9868 Dec 13	05:28	13°♐19'53		
asc. node	9868 Dec 18	05:46	14°♐53'10		
morning max el	9868 Dec 21	03:51	17°♐13'26	18°21'06	

	9868 Dec 30 05:46	0°♉	
morning set	9869 Jan 05 23:52	12°♉29'11	
superior conj	9869 Jan 15 04:51	29°♉49'46	0°45'00
minimum elong	9869 Jan 15 07:46	0°♒03'06	0°44'55
	9869 Jan 15 07:05	0°♒	
desc. node	9869 Jan 21 05:35	10°♒34'58	
max. Earth dist.	9869 Jan 22 18:14	13°♒12'49	1.40810 AU
evening rise	9869 Jan 27 06:37	20°♒47'10	
	9869 Feb 02 00:29	0°♓	
	9869 Feb 23 00:19	0°♈	
evening max el	9869 Mar 02 13:58	8°♈40'50	23°24'43
retrograde	9869 Mar 13 04:26	14°♈56'46	
asc. node	9869 Mar 16 04:21	14°♈13'27	
evening set	9869 Mar 18 05:56	12°♈49'58	
min. Earth dist.	9869 Mar 23 02:53	7°♈06'55	0.68496 AU
inferior conj	9869 Mar 23 15:41	6°♈22'53	2°12'14
minimum elong	9869 Mar 23 13:29	6°♈30'29	2°11'34
morning rise	9869 Mar 28 21:00	0°♈17'20	
	9869 Mar 29 06:04	30°℞♓	
direct	9869 Apr 02 03:15	28°♓35'59	
	9869 Apr 06 08:48	0°♈	
morning max el	9869 Apr 10 11:14	3°♈22'41	20°55'38
desc. node	9869 Apr 19 06:02	13°♈58'48	
	9869 Apr 30 10:21	0°♉	
morning set	9869 May 10 16:59	15°♉41'12	
max. Earth dist.	9869 May 18 13:24	28°♉11'16	1.42967 AU
	9869 May 19 16:05	0°♊	
superior conj	9869 May 25 12:57	9°♊45'32	-2°02'26
minimum elong	9869 May 25 18:23	10°♊08'29	2°02'29
evening rise	9869 Jun 06 08:51	0°♋24'21	
	9869 Jun 06 03:23	0°♋	
asc. node	9869 Jun 12 02:52	10°♋34'45	
evening max el	9869 Jun 23 00:19	26°♋26'42	18°05'00
retrograde	9869 Jun 29 15:13	29°♋50'16	
evening set	9869 Jul 02 04:15	29°♋20'10	
inferior conj	9869 Jul 08 19:47	24°♋20'59	2°02'07
minimum elong	9869 Jul 08 22:38	24°♋14'02	2°00'56
min. Earth dist.	9869 Jul 11 23:53	21°♋17'31	0.61011 AU
morning rise	9869 Jul 15 14:25	18°♋23'12	
desc. node	9869 Jul 16 05:36	17°♋59'09	
direct	9869 Jul 22 05:24	16°♋10'33	
morning max el	9869 Aug 05 11:59	24°♋10'00	27°54'40
	9869 Aug 10 18:32	0°♌	
	9869 Aug 30 10:09	0°♍	
morning set	9869 Sep 07 11:55	15°♍43'51	
asc. node	9869 Sep 08 02:43	17°♍00'43	
max. Earth dist.	9869 Sep 13 08:42	28°♍16'20	1.31713 AU
	9869 Sep 14 03:34	0°♎	
superior conj	9869 Sep 14 19:22	1°♎27'12	1°02'46
minimum elong	9869 Sep 14 17:10	1°♎14'59	1°02'22
evening rise	9869 Sep 21 13:11	16°♎15'31	
	9869 Sep 28 06:43	0°♏	
desc. node	9869 Oct 12 03:42	22°♏10'49	
evening max el	9869 Oct 18 01:13	28°♏44'40	25°08'25
	9869 Oct 19 10:13	0°♐	
retrograde	9869 Oct 31 22:05	5°♐43'26	
evening set	9869 Nov 06 15:41	4°♐28'48	
min. Earth dist.	9869 Nov 11 13:05	1°♐47'34	0.57130 AU
inferior conj	9869 Nov 14 08:53	29°♏54'57	-5°22'46
minimum elong	9869 Nov 14 14:44	29°♏45'12	5°21'36
	9869 Nov 14 05:52	30°℞♏	
morning rise	9869 Nov 22 16:05	25°♏43'56	
direct	9869 Nov 25 01:21	25°♏27'24	
morning max el	9869 Dec 04 05:04	29°♏50'33	19°09'12
	9869 Dec 04 08:58	0°♐	
asc. node	9869 Dec 05 02:46	0°♐45'05	
morning set	9869 Dec 21 00:01	26°♐52'00	
	9869 Dec 22 13:50	0°♉	
superior conj	9869 Dec 29 05:55	13°♉08'34	1°10'34
minimum elong	9869 Dec 29 09:02	13°♉23'34	1°10'34
max. Earth dist.	9870 Jan 05 00:05	25°♉45'46	1.38622 AU
	9870 Jan 07 09:13	0°♒	
desc. node	9870 Jan 08 02:30	1°♒15'34	
evening rise	9870 Jan 08 18:59	2°♒27'11	
	9870 Jan 26 05:14	0°♓	
evening max el	9870 Feb 13 03:30	22°♓29'02	24°43'49
retrograde	9870 Feb 24 19:37	29°♓17'35	
evening set	9870 Mar 02 09:18	26°♓58'18	
asc. node	9870 Mar 03 01:31	26°♓21'46	
min. Earth dist.	9870 Mar 06 22:22	21°♓50'00	0.68018 AU
inferior conj	9870 Mar 07 22:51	20°♓28'45	1°31'31
minimum elong	9870 Mar 07 20:57	20°♓35'04	1°30'57
morning rise	9870 Mar 13 08:47	14°♓30'23	
direct	9870 Mar 17 02:20	13°♓10'29	
morning max el	9870 Mar 24 11:34	17°♓17'41	19°45'42
	9870 Apr 03 13:42	0°♈	
desc. node	9870 Apr 06 02:51	3°♈40'38	
greatest brilliancy	9870 Apr 06 07:40	3°♈58'16	-0.6m
morning set	9870 Apr 19 15:30	24°♈05'17	
	9870 Apr 23 11:16	0°♉	
max. Earth dist.	9870 May 01 00:44	11°♉51'50	1.44518 AU
superior conj	9870 May 05 21:52	19°♉40'29	-2°12'45
minimum elong	9870 May 05 22:23	19°♉42'33	2°13'02
	9870 May 12 05:21	0°♊	
evening rise	9870 May 19 11:04	12°♊08'54	
asc. node	9870 May 29 23:55	29°♊41'18	
	9870 May 30 04:42	0°♋	
evening max el	9870 Jun 06 14:02	9°♋47'36	18°10'34
retrograde	9870 Jun 12 22:52	13°♋08'41	
evening set	9870 Jun 15 19:43	12°♋25'33	
inferior conj	9870 Jun 21 21:51	7°♋07'59	2°47'04
minimum elong	9870 Jun 22 00:16	7°♋01'20	2°46'11
min. Earth dist.	9870 Jun 24 14:06	4°♋12'44	0.63210 AU
morning rise	9870 Jun 28 03:14	0°♋55'53	
	9870 Jun 29 11:37	30°℞♊	
desc. node	9870 Jul 03 02:41	28°♊32'03	
direct	9870 Jul 04 20:47	28°♊21'58	
	9870 Jul 10 16:37	0°♋	
morning max el	9870 Jul 18 19:52	6°♋24'49	27°48'28
	9870 Aug 05 18:46	0°♌	
morning set	9870 Aug 22 08:44	29°♌37'18	
	9870 Aug 22 13:15	0°♍	
asc. node	9870 Aug 25 23:34	7°♍03'13	
max. Earth dist.	9870 Aug 27 11:47	10°♍14'32	1.32417 AU
superior conj	9870 Aug 30 03:09	15°♍55'08	0°40'30
minimum elong	9870 Aug 30 01:23	15°♍45'37	0°40'01
	9870 Sep 05 14:32	0°♎	
evening rise	9870 Sep 06 00:43	0°♎54'37	
	9870 Sep 21 23:33	0°♏	
desc. node	9870 Sep 29 00:54	8°♏33'00	
evening max el	9870 Sep 29 12:25	9°♏01'16	23°31'05
retrograde	9870 Oct 13 00:22	15°♏45'26	
evening set	9870 Oct 17 09:12	15°♏03'55	
min. Earth dist.	9870 Oct 23 22:28	11°♏58'05	0.55569 AU
inferior conj	9870 Oct 25 19:10	10°♏52'03	-5°42'31
minimum elong	9870 Oct 25 18:23	10°♏53'13	5°42'16
morning rise	9870 Nov 03 05:28	6°♏58'56	
direct	9870 Nov 06 02:19	6°♏38'45	

morning max el	9870 Nov 16 17:45	11°♏40'10	20°19'55
asc. node	9870 Nov 21 23:45	17°♏47'18	
	9870 Nov 29 10:26	0°♐	
morning set	9870 Dec 05 06:17	11°♐30'13	
superior conj	9870 Dec 12 20:11	27°♐03'59	1°27'51
minimum elong	9870 Dec 12 22:31	27°♐15'44	1°28'02
	9870 Dec 14 07:14	0°♑	
max. Earth dist.	9870 Dec 18 07:10	7°♑48'50	1.36497 AU
evening rise	9870 Dec 22 03:11	14°♑58'40	
desc. node	9870 Dec 25 23:28	21°♑49'44	
	9870 Dec 30 19:40	0°♒	
	9871 Jan 20 21:37	0°♓	
evening max el	9871 Jan 26 16:54	6°♓17'52	25°54'55
retrograde	9871 Feb 08 05:58	13°♓27'34	
evening set	9871 Feb 14 07:51	10°♓58'39	
asc. node	9871 Feb 17 22:43	7°♓12'42	
min. Earth dist.	9871 Feb 18 14:15	6°♓25'09	0.67143 AU
inferior conj	9871 Feb 20 02:24	4°♓31'44	0°41'56
minimum elong	9871 Feb 20 01:22	4°♓34'59	0°41'44
	9871 Feb 24 02:54	30°℞♒	
morning rise	9871 Feb 25 19:28	28°♒42'30	
direct	9871 Mar 01 01:35	27°♒41'57	
	9871 Mar 06 07:13	0°♓	
morning max el	9871 Mar 07 19:30	1°♓21'57	18°51'03
desc. node	9871 Mar 23 23:39	23°♓44'59	
	9871 Mar 28 00:17	0°♈	
morning set	9871 Mar 29 23:45	3°♈04'50	
max. Earth dist.	9871 Apr 13 17:53	26°♈07'08	1.45423 AU
superior conj	9871 Apr 15 10:13	28°♈45'23	-2°03'59
minimum elong	9871 Apr 15 03:28	28°♈18'55	2°03'47
	9871 Apr 16 05:12	0°♉	
evening rise	9871 Apr 30 14:00	22°♉53'59	
	9871 May 04 23:22	0°♊	
asc. node	9871 May 16 21:01	18°♊17'40	
evening max el	9871 May 21 02:31	23°♊20'19	18°34'17
retrograde	9871 May 27 14:43	26°♊52'43	
evening set	9871 May 30 19:21	25°♊55'07	
inferior conj	9871 Jun 05 12:00	20°♊20'36	3°11'28
minimum elong	9871 Jun 05 13:19	20°♊16'37	3°10'56
min. Earth dist.	9871 Jun 07 13:25	17°♊51'44	0.65137 AU
morning rise	9871 Jun 11 06:27	14°♊02'00	
direct	9871 Jun 17 19:58	11°♊18'01	
desc. node	9871 Jun 19 23:45	11°♊33'40	
morning max el	9871 Jul 01 06:13	19°♊12'33	27°08'14
	9871 Jul 10 09:54	0°♋	
	9871 Jul 29 19:11	0°♌	
morning set	9871 Aug 05 20:01	13°♌00'31	
max. Earth dist.	9871 Aug 10 06:17	21°♌48'09	1.33623 AU
asc. node	9871 Aug 12 20:28	27°♌08'46	
superior conj	9871 Aug 14 05:49	0°♍03'48	0°13'48
minimum elong	9871 Aug 14 05:07	0°♍00'08	0°13'25
behind sun begin	9871 Aug 14 02:01	29°♌43'48	
behind sun end	9871 Aug 14 08:13	0°♍16'28	
	9871 Aug 14 05:06	0°♍	
evening rise	9871 Aug 21 11:29	15°♍28'00	
	9871 Aug 28 17:46	0°♎	
evening max el	9871 Sep 11 02:07	19°♎12'38	21°52'14
desc. node	9871 Sep 15 22:08	23°♎04'58	
retrograde	9871 Sep 23 15:21	25°♎27'07	
evening set	9871 Sep 26 13:40	25°♎07'51	
min. Earth dist.	9871 Oct 05 05:49	21°♎21'34	0.54723 AU
inferior conj	9871 Oct 05 14:33	21°♎09'21	-5°08'47
minimum elong	9871 Oct 05 06:23	21°♎20'47	5°07'10
morning rise	9871 Oct 14 00:24	17°♎21'35	
direct	9871 Oct 17 13:11	16°♎54'14	
morning max el	9871 Oct 29 17:04	22°♎39'18	21°51'52
	9871 Nov 05 01:04	0°♏	
asc. node	9871 Nov 08 20:41	5°♏44'07	
morning set	9871 Nov 19 16:14	26°♏16'39	
	9871 Nov 21 10:35	0°♐	
superior conj	9871 Nov 26 19:49	11°♐25'06	1°37'30
minimum elong	9871 Nov 26 20:57	11°♐31'05	1°37'49
max. Earth dist.	9871 Nov 30 20:10	19°♐42'26	1.34631 AU
evening rise	9871 Dec 05 03:34	28°♐12'13	
	9871 Dec 06 02:12	0°♑	
desc. node	9871 Dec 12 20:30	12°♑13'01	
	9871 Dec 24 01:33	0°♒	
evening max el	9872 Jan 09 06:24	20°♒00'09	26°50'41
retrograde	9872 Jan 22 10:42	27°♒20'16	
evening set	9872 Jan 28 23:47	24°♒46'01	
min. Earth dist.	9872 Feb 02 00:19	20°♒46'56	0.65892 AU
inferior conj	9872 Feb 04 00:16	18°♒27'34	-0°16'15
minimum elong	9872 Feb 04 00:43	18°♒26'15	0°15'46
transit middle	9872 Feb 04 00:43	18°♒26'15	0°15'46
transit begin	9872 Feb 04 00:11	18°♒27'49	
transit end	9872 Feb 04 01:16	18°♒24'41	
asc. node	9872 Feb 04 19:53	17°♒30'56	
morning rise	9872 Feb 10 02:48	12°♒49'47	
direct	9872 Feb 12 22:58	12°♒05'28	
morning max el	9872 Feb 19 09:25	15°♒30'33	18°12'53
	9872 Mar 01 01:19	0°♓	
morning set	9872 Mar 09 10:44	13°♓26'33	
desc. node	9872 Mar 09 20:28	14°♓05'47	
	9872 Mar 19 19:18	0°♈	
superior conj	9872 Mar 24 16:12	7°♈40'24	-1°35'38
minimum elong	9872 Mar 24 06:41	7°♈03'02	1°34'42
max. Earth dist.	9872 Mar 26 13:50	10°♈39'12	1.45591 AU
	9872 Apr 07 23:32	0°♉	
evening rise	9872 Apr 09 18:09	2°♉45'57	
greatest brilliancy	9872 Apr 21 09:16	20°♉45'14	-0.7m
	9872 Apr 27 17:33	0°♊	
asc. node	9872 May 02 18:11	6°♊14'29	
evening max el	9872 May 03 11:21	6°♊59'10	19°15'12
retrograde	9872 May 10 11:21	10°♊55'29	
evening set	9872 May 14 00:07	9°♊42'43	
inferior conj	9872 May 19 10:46	3°♊52'50	3°19'29
minimum elong	9872 May 19 10:52	3°♊52'32	3°19'08
min. Earth dist.	9872 May 20 21:01	2°♊01'46	0.66668 AU
	9872 May 22 12:31	30°℞♉	
morning rise	9872 May 24 21:11	27°♉32'48	
direct	9872 May 31 01:51	24°♉49'55	
desc. node	9872 Jun 05 20:44	26°♉42'36	
	9872 Jun 10 05:10	0°♊	
morning max el	9872 Jun 12 16:49	2°♊22'25	26°01'45
	9872 Jul 03 13:47	0°♋	
morning set	9872 Jul 18 18:14	25°♋44'48	
	9872 Jul 21 00:46	0°♌	
max. Earth dist.	9872 Jul 22 14:20	2°♌59'39	1.35306 AU
superior conj	9872 Jul 28 00:54	13°♌46'56	-0°16'35
minimum elong	9872 Jul 28 01:53	13°♌51'57	0°16'41
asc. node	9872 Jul 29 17:23	17°♌13'51	
evening rise	9872 Aug 04 19:29	29°♌50'17	
	9872 Aug 04 21:22	0°♍	
evening max el	9872 Aug 23 02:40	29°♍53'20	20°26'14
	9872 Aug 23 05:22	0°♎	
desc. node	9872 Sep 01 19:22	5°♎17'15	
retrograde	9872 Sep 03 03:43	5°♎21'59	
evening set	9872 Sep 05 04:31	5°♎11'38	

inferior conj	9872 Sep	14	07:35	1°♎14'22	-3°41'57
minimum elong	9872 Sep	13	22:14	1°♎27'58	3°38'58
min. Earth dist.	9872 Sep	15	14:39	0°♎29'07	0.54793 AU
	9872 Sep	16	10:58	30°℞♍	
morning rise	9872 Sep	22	15:25	27°♍10'53	
direct	9872 Sep	26	21:55	26°♍31'42	
	9872 Oct	06	15:00	0°♎	
morning max el	9872 Oct	10	07:03	3°♎00'48	23°37'17
asc. node	9872 Oct	25	17:36	24°♎22'35	
	9872 Oct	28	17:39	0°♏	
morning set	9872 Nov	03	03:52	11°♏05'26	
superior conj	9872 Nov	10	01:44	26°♏02'44	1°40'19
minimum elong	9872 Nov	10	01:39	26°♏02'17	1°40'38
	9872 Nov	11	21:53	0°♐	
max. Earth dist.	9872 Nov	12	17:01	1°♐41'49	1.33159 AU
evening rise	9872 Nov	17	16:28	11°♐58'17	
	9872 Nov	27	08:51	0°♑	
desc. node	9872 Nov	28	17:34	2°♑19'23	
	9872 Dec	18	11:05	0°♒	
evening max el	9872 Dec	21	19:02	3°♒24'47	27°23'57
retrograde	9873 Jan	04	09:15	10°♒46'45	
evening set	9873 Jan	11	06:46	8°♒13'42	
min. Earth dist.	9873 Jan	15	02:23	4°♒47'06	0.64294 AU
inferior conj	9873 Jan	17	13:55	2°♒09'49	-1°22'21
minimum elong	9873 Jan	17	16:29	2°♒03'02	1°20'56
	9873 Jan	19	16:44	30°℞♑	
asc. node	9873 Jan	21	17:02	28°♑14'38	
morning rise	9873 Jan	24	04:00	26°♑46'13	
direct	9873 Jan	26	16:01	26°♑14'27	
morning max el	9873 Feb	02	02:34	29°♑35'34	17°51'39
	9873 Feb	02	12:17	0°♒	
morning set	9873 Feb	19	02:21	25°♒11'56	
	9873 Feb	21	22:48	0°♓	
desc. node	9873 Feb	24	17:17	4°♓37'43	
superior conj	9873 Mar	04	10:28	17°♓15'06	-0°54'56
minimum elong	9873 Mar	04	04:23	16°♓50'37	0°53'58
max. Earth dist.	9873 Mar	09	09:08	25°♓08'06	1.45018 AU
	9873 Mar	12	11:25	0°♈	
evening rise	9873 Mar	20	07:25	12°♈07'46	
	9873 Apr	01	03:02	0°♉	
greatest brilliancy	9873 Apr	04	05:08	4°♉32'15	-0.6m
evening max el	9873 Apr	16	14:55	20°♉39'44	20°11'45
asc. node	9873 Apr	19	15:22	23°♉18'49	
retrograde	9873 Apr	24	09:57	25°♉10'20	
evening set	9873 Apr	28	07:38	23°♉42'09	
inferior conj	9873 May	03	15:12	17°♉38'43	3°14'15
minimum elong	9873 May	03	14:13	17°♉42'03	3°13'53
min. Earth dist.	9873 May	04	11:07	16°♉30'58	0.67755 AU
morning rise	9873 May	08	20:33	11°♉20'28	
direct	9873 May	14	13:28	8°♉47'59	
desc. node	9873 May	23	17:41	13°♉28'01	
morning max el	9873 May	26	02:28	15°♉43'23	24°38'35
	9873 Jun	06	20:32	0°♊	
	9873 Jun	26	12:09	0°♋	
morning set	9873 Jun	30	22:45	7°♋38'01	
max. Earth dist.	9873 Jul	04	13:28	14°♋05'48	1.37371 AU
superior conj	9873 Jul	11	09:13	26°♋56'29	-0°49'11
minimum elong	9873 Jul	11	12:22	27°♋11'50	0°48'58
	9873 Jul	12	22:48	0°♌	
asc. node	9873 Jul	16	14:21	7°♌14'33	
evening rise	9873 Jul	19	22:15	13°♌54'36	
	9873 Jul	28	10:43	0°♍	
evening max el	9873 Aug	05	16:58	11°♍20'09	19°20'06
retrograde	9873 Aug	15	01:25	15°♍58'30	
evening set	9873 Aug	16	21:38	15°♍48'28	
desc. node	9873 Aug	19	16:33	14°♍58'18	
inferior conj	9873 Aug	25	12:34	11°♍40'12	-1°48'21
minimum elong	9873 Aug	25	07:44	11°♍48'07	1°46'38
min. Earth dist.	9873 Aug	28	03:09	9°♍57'50	0.55793 AU
morning rise	9873 Sep	02	15:05	7°♍03'41	
direct	9873 Sep	07	17:09	6°♍04'42	
morning max el	9873 Sep	21	19:02	13°♍11'34	25°21'27
	9873 Oct	04	22:00	0°♎	
asc. node	9873 Oct	12	14:30	13°♎32'22	
morning set	9873 Oct	18	15:27	25°♎51'40	
	9873 Oct	20	13:29	0°♏	
superior conj	9873 Oct	25	11:34	10°♏49'38	1°36'56
minimum elong	9873 Oct	25	10:25	10°♏43'23	1°37'07
max. Earth dist.	9873 Oct	26	21:04	13°♏53'47	1.32145 AU
evening rise	9873 Nov	01	14:38	26°♏08'45	
	9873 Nov	03	11:58	0°♐	
desc. node	9873 Nov	15	14:41	22°♐01'32	
	9873 Nov	20	18:59	0°♑	
evening max el	9873 Dec	04	05:06	16°♑20'19	27°28'19
retrograde	9873 Dec	18	00:51	23°♑37'49	
evening set	9873 Dec	25	01:56	21°♑14'44	
min. Earth dist.	9873 Dec	28	18:51	18°♑15'52	0.62407 AU
inferior conj	9873 Dec	31	16:25	15°♑31'43	-2°34'24
minimum elong	9873 Dec	31	21:30	15°♑19'42	2°32'04
morning rise	9874 Jan	07	19:26	10°♑25'06	
asc. node	9874 Jan	08	14:06	10°♑12'03	
direct	9874 Jan	10	01:37	10°♑02'04	
morning max el	9874 Jan	16	19:50	13°♑28'52	17°48'01
	9874 Jan	28	03:14	0°♒	
morning set	9874 Feb	01	17:13	8°♒04'02	
desc. node	9874 Feb	11	14:10	25°♒17'03	
superior conj	9874 Feb	13	04:19	27°♒58'26	-0°11'54
minimum elong	9874 Feb	13	03:10	27°♒53'36	0°11'29
behind sun begin	9874 Feb	12	20:53	27°♒27'04	
behind sun end	9874 Feb	13	09:28	28°♒20'05	
	9874 Feb	14	09:20	0°♓	
max. Earth dist.	9874 Feb	20	01:30	9°♓18'45	1.43779 AU
evening rise	9874 Feb	27	20:41	21°♓38'13	
	9874 Mar	05	07:50	0°♈	
	9874 Mar	26	15:22	0°♉	
evening max el	9874 Mar	30	12:56	4°♉21'34	21°21'00
asc. node	9874 Apr	06	12:31	9°♉16'09	
retrograde	9874 Apr	08	08:20	9°♉32'42	
evening set	9874 Apr	12	15:59	7°♉49'09	
inferior conj	9874 Apr	17	22:54	1°♉34'23	2°57'51
minimum elong	9874 Apr	17	21:09	1°♉40'29	2°57'22
min. Earth dist.	9874 Apr	18	05:31	1°♉11'21	0.68392 AU
	9874 Apr	19	02:11	30°℞♈	
morning rise	9874 Apr	23	02:06	25°♈19'58	
direct	9874 Apr	28	05:48	23°♈04'38	
morning max el	9874 May	08	12:14	29°♈10'47	23°08'47
	9874 May	09	07:21	0°♉	
desc. node	9874 May	10	14:36	1°♉24'15	
	9874 May	31	14:45	0°♊	
morning set	9874 Jun	12	04:11	18°♊25'45	
max. Earth dist.	9874 Jun	16	09:43	25°♊36'40	1.39641 AU
	9874 Jun	18	22:02	0°♋	
superior conj	9874 Jun	24	02:47	9°♋22'40	-1°21'37
minimum elong	9874 Jun	24	08:06	9°♋47'12	1°21'15
asc. node	9874 Jul	03	11:19	27°♋06'20	
evening rise	9874 Jul	03	16:45	27°♋32'25	
	9874 Jul	04	23:33	0°♌	
evening max el	9874 Jul	19	18:46	23°♌30'36	18°35'03

retrograde	9874 Jul 27	16:46	27°♌27'46	
evening set	9874 Jul 29	17:54	27°♌12'47	
inferior conj	9874 Aug 06	13:49	22°♌45'36	-0°00'04
minimum elong	9874 Aug 06	13:48	22°♌45'37	0°00'20
transit middle	9874 Aug 06	13:48	22°♌45'37	0°00'20
transit begin	9874 Aug 06	10:11	22°♌52'33	
transit end	9874 Aug 06	17:25	22°♌38'41	
desc. node	9874 Aug 06	13:44	22°♌45'46	
min. Earth dist.	9874 Aug 09	20:29	20°♌15'57	0.57538 AU
morning rise	9874 Aug 14	06:11	17°♌32'03	
direct	9874 Aug 20	03:00	16°♌05'35	
morning max el	9874 Sep 03	11:05	23°♌39'34	26°47'12
	9874 Sep 09	04:44	0°♍	
	9874 Sep 27	22:12	0°♎	
asc. node	9874 Sep 29	11:22	3°♎04'30	
morning set	9874 Oct 03	01:18	10°♎29'36	
superior conj	9874 Oct 09	23:08	25°♎38'12	1°27'51
minimum elong	9874 Oct 09	21:15	25°♎27'44	1°27'47
max. Earth dist.	9874 Oct 10	05:38	26°♎14'23	1.31606 AU
	9874 Oct 11	22:18	0°♏	
evening rise	9874 Oct 16	19:17	10°♏35'02	
	9874 Oct 26	17:52	0°♐	
desc. node	9874 Nov 02	11:49	11°♐08'46	
evening max el	9874 Nov 16	10:05	28°♐33'34	26°59'21
	9874 Nov 18	00:24	0°♑	
retrograde	9874 Nov 30	08:03	5°♑43'24	
evening set	9874 Dec 07	05:28	3°♑40'21	
min. Earth dist.	9874 Dec 11	00:40	1°♑00'16	0.60334 AU
	9874 Dec 12	06:14	30°℞♐	
inferior conj	9874 Dec 14	04:22	28°♐23'32	-3°48'01
minimum elong	9874 Dec 14	11:38	28°♐08'26	3°45'18
morning rise	9874 Dec 21	20:23	23°♐36'56	
direct	9874 Dec 24	00:02	23°♐18'58	
asc. node	9874 Dec 26	11:08	23°♐43'31	
morning max el	9874 Dec 31	09:43	27°♐00'21	18°03'10
	9875 Jan 03	01:21	0°♑	
morning set	9875 Jan 16	00:53	21°♑43'03	
	9875 Jan 20	12:07	0°♒	
superior conj	9875 Jan 25	22:55	9°♒51'40	0°26'26
minimum elong	9875 Jan 26	00:58	10°♒00'47	0°26'26
desc. node	9875 Jan 29	11:02	15°♒59'47	
max. Earth dist.	9875 Feb 02	13:41	22°♒58'19	1.42004 AU
	9875 Feb 06	20:26	0°♓	
evening rise	9875 Feb 07	23:51	1°♓50'14	
	9875 Feb 26	18:20	0°♈	
evening max el	9875 Mar 13	06:18	18°♈05'52	22°38'37
retrograde	9875 Mar 23	04:51	23°♈58'42	
asc. node	9875 Mar 24	09:39	23°♈51'37	
evening set	9875 Mar 27	23:37	22°♈00'08	
inferior conj	9875 Apr 02	07:52	15°♈36'48	2°31'34
minimum elong	9875 Apr 02	05:42	15°♈44'19	2°30'57
min. Earth dist.	9875 Apr 02	02:02	15°♈57'06	0.68584 AU
morning rise	9875 Apr 07	11:39	9°♈27'43	
direct	9875 Apr 12	01:43	7°♈33'26	
morning max el	9875 Apr 21	01:23	12°♈47'09	21°41'42
desc. node	9875 Apr 27	11:29	20°♈12'11	
	9875 May 04	17:18	0°♉	
morning set	9875 May 23	06:49	27°♉59'52	
	9875 May 24	12:52	0°♊	
max. Earth dist.	9875 May 29	10:24	7°♊59'08	1.41844 AU
superior conj	9875 Jun 06	01:07	20°♊55'33	-1°50'01
minimum elong	9875 Jun 06	07:22	21°♊22'47	1°49'50
	9875 Jun 11	03:55	0°♋	
evening rise	9875 Jun 16	23:15	10°♋34'49	
asc. node	9875 Jun 20	08:19	16°♋45'03	
	9875 Jun 28	04:27	0°♌	
evening max el	9875 Jul 03	04:06	6°♌15'47	18°10'22
retrograde	9875 Jul 10	02:57	9°♌47'05	
evening set	9875 Jul 12	11:38	9°♌23'15	
inferior conj	9875 Jul 19	12:36	4°♌35'10	1°25'07
minimum elong	9875 Jul 19	15:03	4°♌29'40	1°23'58
min. Earth dist.	9875 Jul 22	20:35	1°♌37'39	0.59704 AU
desc. node	9875 Jul 24	10:52	0°♌20'27	
	9875 Jul 24	21:50	30°℞♋	
morning rise	9875 Jul 26	15:27	28°♋50'48	
direct	9875 Aug 02	01:48	26°♋54'21	
	9875 Aug 10	17:17	0°♌	
morning max el	9875 Aug 16	10:04	4°♌46'03	27°41'01
	9875 Sep 04	02:39	0°♍	
asc. node	9875 Sep 16	08:15	22°♍52'38	
morning set	9875 Sep 17	07:43	24°♍54'43	
	9875 Sep 19	17:09	0°♎	
max. Earth dist.	9875 Sep 23	15:16	8°♎35'22	1.31542 AU
superior conj	9875 Sep 24	10:40	10°♎22'59	1°13'24
minimum elong	9875 Sep 24	08:26	10°♎10'36	1°13'07
evening rise	9875 Oct 01	04:10	25°♎10'51	
	9875 Oct 03	10:57	0°♏	
desc. node	9875 Oct 20	08:58	29°♏27'41	
	9875 Oct 20	18:23	0°♐	
evening max el	9875 Oct 29	07:26	9°♐55'55	25°56'52
retrograde	9875 Nov 12	05:11	16°♐58'14	
evening set	9875 Nov 18	12:47	15°♐24'07	
min. Earth dist.	9875 Nov 22	20:07	12°♐48'47	0.58251 AU
inferior conj	9875 Nov 25	22:18	10°♐35'35	-4°54'02
minimum elong	9875 Nov 26	05:49	10°♐22'03	4°52'01
morning rise	9875 Dec 04	01:13	6°♐11'32	
direct	9875 Dec 06	06:58	5°♐55'18	
asc. node	9875 Dec 13	08:10	8°♐47'46	
morning max el	9875 Dec 14	16:35	10°♐00'09	18°38'46
	9875 Dec 27	18:36	0°♑	
morning set	9875 Dec 30	20:09	5°♑53'27	
superior conj	9876 Jan 08	14:18	22°♑43'28	0°56'54
minimum elong	9876 Jan 08	17:28	22°♑58'16	0°56'50
	9876 Jan 12	13:12	0°♒	
max. Earth dist.	9876 Jan 15	21:42	5°♒57'39	1.39894 AU
desc. node	9876 Jan 16	07:56	6°♒42'14	
evening rise	9876 Jan 19	23:47	12°♒57'41	
	9876 Jan 30	15:43	0°♓	
	9876 Feb 22	01:06	0°♈	
evening max el	9876 Feb 23	20:42	1°♈52'52	23°58'56
retrograde	9876 Mar 05	22:13	8°♈23'12	
asc. node	9876 Mar 10	06:50	6°♈53'46	
evening set	9876 Mar 11	04:58	6°♈10'44	
min. Earth dist.	9876 Mar 15	22:23	0°♈42'44	0.68346 AU
	9876 Mar 16	10:59	30°℞♓	
inferior conj	9876 Mar 16	16:12	29°♓42'17	1°56'02
minimum elong	9876 Mar 16	14:04	29°♓49'33	1°55'23
morning rise	9876 Mar 21	23:11	23°♓39'50	
direct	9876 Mar 25	23:59	22°♓07'43	
morning max el	9876 Apr 02	21:15	26°♓35'39	20°24'12
	9876 Apr 06	00:03	0°♈	
desc. node	9876 Apr 13	08:19	9°♈37'23	
	9876 Apr 27	03:51	0°♉	
morning set	9876 May 01	10:51	6°♉35'22	
max. Earth dist.	9876 May 10	18:28	21°♉16'04	1.43699 AU
	9876 May 16	03:15	0°♊	
superior conj	9876 May 17	00:01	1°♊25'48	-2°08'51
minimum elong	9876 May 17	03:55	1°♊41'55	2°09'02

evening rise	9876 May 29 13:09	22°♊50'39	
	9876 Jun 02 15:44	0°♋	
asc. node	9876 Jun 06 05:20	6°♋04'55	
evening max el	9876 Jun 15 17:07	19°♋25'22	18°05'04
retrograde	9876 Jun 22 04:11	22°♋46'17	
evening set	9876 Jun 24 20:35	22°♋10'47	
inferior conj	9876 Jul 01 05:53	17°♋03'14	2°23'59
minimum elong	9876 Jul 01 08:41	16°♋56'02	2°22'54
min. Earth dist.	9876 Jul 04 05:22	14°♋00'57	0.61966 AU
morning rise	9876 Jul 07 18:39	10°♋58'09	
desc. node	9876 Jul 10 07:59	9°♋29'46	
direct	9876 Jul 14 11:26	8°♋35'39	
morning max el	9876 Jul 28 15:33	16°♋37'21	27°56'41
	9876 Aug 08 16:28	0°♌	
	9876 Aug 26 19:22	0°♍	
morning set	9876 Aug 31 08:43	9°♍01'17	
asc. node	9876 Sep 02 05:07	12°♍51'02	
max. Earth dist.	9876 Sep 05 21:59	20°♍45'11	1.31953 AU
superior conj	9876 Sep 07 20:20	24°♍58'13	0°53'54
minimum elong	9876 Sep 07 18:15	24°♍46'45	0°53'27
	9876 Sep 10 03:11	0°♎	
evening rise	9876 Sep 14 15:15	9°♎50'00	
	9876 Sep 24 20:58	0°♏	
desc. node	9876 Oct 06 06:10	16°♏39'33	
evening max el	9876 Oct 09 20:54	20°♏30'09	24°28'16
retrograde	9876 Oct 23 14:54	27°♏24'08	
evening set	9876 Oct 28 19:59	26°♏23'55	
min. Earth dist.	9876 Nov 03 07:51	23°♏34'40	0.56398 AU
inferior conj	9876 Nov 05 19:56	22°♏00'22	-5°36'41
minimum elong	9876 Nov 05 23:29	21°♏54'46	5°36'07
morning rise	9876 Nov 14 05:09	17°♏58'18	
direct	9876 Nov 16 18:44	17°♏40'38	
morning max el	9876 Nov 26 12:50	22°♏18'30	19°36'32
asc. node	9876 Nov 29 05:11	25°♏11'57	
	9876 Dec 02 18:17	0°♐	
morning set	9876 Dec 13 23:18	20°♐24'35	
	9876 Dec 18 17:14	0°♑	
superior conj	9876 Dec 21 21:36	6°♑20'21	1°18'52
minimum elong	9876 Dec 22 00:27	6°♑34'25	1°18'57
max. Earth dist.	9876 Dec 28 03:47	18°♑17'38	1.37698 AU
evening rise	9876 Dec 31 21:01	25°♑01'05	
desc. node	9877 Jan 02 04:52	27°♑21'02	
	9877 Jan 03 17:40	0°♒	
	9877 Jan 23 06:58	0°♓	
evening max el	9877 Feb 05 09:56	15°♓41'56	25°15'21
retrograde	9877 Feb 17 11:30	22°♓41'04	
evening set	9877 Feb 23 06:32	20°♓16'55	
asc. node	9877 Feb 25 04:00	18°♓26'16	
min. Earth dist.	9877 Feb 27 16:33	15°♓23'43	0.67697 AU
inferior conj	9877 Feb 28 22:05	13°♓47'47	1°11'34
minimum elong	9877 Feb 28 20:29	13°♓53'01	1°11'07
morning rise	9877 Mar 06 10:47	7°♓53'20	
direct	9877 Mar 09 23:16	6°♓42'09	
morning max el	9877 Mar 17 01:05	10°♓36'10	19°20'30
greatest brilliancy	9877 Mar 29 21:06	27°♓30'17	-0.7m
desc. node	9877 Mar 31 05:09	29°♓29'58	
	9877 Mar 31 13:09	0°♈	
morning set	9877 Apr 10 10:36	15°♈06'45	
	9877 Apr 20 00:42	0°♉	
max. Earth dist.	9877 Apr 23 08:40	5°♉13'57	1.44990 AU
superior conj	9877 Apr 26 23:05	10°♉56'06	-2°11'33
minimum elong	9877 Apr 26 20:27	10°♉45'37	2°11'44
	9877 May 08 17:17	0°♊	
evening rise	9877 May 11 05:50	4°♊10'37	
asc. node	9877 May 24 02:24	24°♊59'40	
	9877 May 27 17:43	0°♋	
evening max el	9877 May 30 06:34	2°♋51'37	18°18'26
retrograde	9877 Jun 05 15:56	6°♋16'18	
evening set	9877 Jun 08 15:56	5°♋27'16	
inferior conj	9877 Jun 14 13:35	0°♋02'10	2°59'40
minimum elong	9877 Jun 14 15:35	29°♊56'26	2°58'57
	9877 Jun 14 14:20	30°℞♊	
min. Earth dist.	9877 Jun 16 23:40	27°♊16'12	0.64069 AU
morning rise	9877 Jun 20 13:57	23°♊46'10	
direct	9877 Jun 27 06:19	21°♊06'33	
desc. node	9877 Jun 27 05:04	21°♊06'34	
morning max el	9877 Jul 11 01:02	29°♊08'12	27°35'08
	9877 Jul 11 21:14	0°♋	
	9877 Aug 02 14:03	0°♌	
morning set	9877 Aug 15 01:52	22°♌42'52	
	9877 Aug 18 16:19	0°♍	
max. Earth dist.	9877 Aug 19 21:47	2°♍33'07	1.32863 AU
asc. node	9877 Aug 20 02:01	2°♍55'14	
superior conj	9877 Aug 23 02:12	9°♍18'20	0°29'40
minimum elong	9877 Aug 23 00:49	9°♍10'54	0°29'13
evening rise	9877 Aug 30 02:42	24°♍26'56	
	9877 Sep 01 18:11	0°♎	
	9877 Sep 20 16:04	0°♏	
evening max el	9877 Sep 21 07:47	0°♏39'08	22°48'16
desc. node	9877 Sep 23 03:23	2°♏18'37	
retrograde	9877 Oct 04 12:25	7°♏13'52	
evening set	9877 Oct 08 05:39	6°♏43'36	
min. Earth dist.	9877 Oct 15 16:03	3°♏22'11	0.55095 AU
inferior conj	9877 Oct 16 22:45	2°♏38'15	-5°35'27
minimum elong	9877 Oct 16 18:28	2°♏44'24	5°34'53
	9877 Oct 21 23:13	30°℞♎	
morning rise	9877 Oct 25 09:07	28°♎49'42	
direct	9877 Oct 28 12:04	28°♎27'08	
	9877 Nov 03 14:52	0°♏	
morning max el	9877 Nov 08 19:50	3°♏46'57	20°56'50
asc. node	9877 Nov 16 02:11	12°♏39'19	
	9877 Nov 25 19:20	0°♐	
morning set	9877 Nov 28 07:25	5°♐07'16	
superior conj	9877 Dec 05 16:18	20°♐28'31	1°32'48
minimum elong	9877 Dec 05 18:09	20°♐38'01	1°33'04
	9877 Dec 10 09:55	0°♑	
max. Earth dist.	9877 Dec 10 12:34	0°♑12'57	1.35656 AU
evening rise	9877 Dec 14 12:35	7°♑52'04	
desc. node	9877 Dec 20 01:52	17°♑51'25	
	9877 Dec 27 10:20	0°♒	
evening max el	9878 Jan 18 23:14	29°♒28'44	26°20'51
	9878 Jan 19 12:18	0°♓	
retrograde	9878 Jan 31 19:46	6°♓44'59	
evening set	9878 Feb 07 02:34	4°♓13'01	
	9878 Feb 11 04:21	30°℞♒	
min. Earth dist.	9878 Feb 11 06:17	29°♒54'14	0.66657 AU
asc. node	9878 Feb 12 01:12	28°♒56'56	
inferior conj	9878 Feb 12 23:31	27°♒48'38	0°18'19
minimum elong	9878 Feb 12 23:02	27°♒50'07	0°18'21
morning rise	9878 Feb 18 20:21	22°♒04'00	
direct	9878 Feb 21 21:55	21°♒10'58	
morning max el	9878 Feb 28 11:54	24°♒43'31	18°32'40
	9878 Mar 04 23:42	0°♓	
desc. node	9878 Mar 18 01:58	19°♓42'04	
morning set	9878 Mar 21 05:01	24°♓38'07	
	9878 Mar 24 14:40	0°♈	
superior conj	9878 Apr 06 06:31	19°♈51'08	-1°54'04
minimum elong	9878 Apr 05 21:43	19°♈16'43	1°53'31

max. Earth dist.	9878 Apr 06 02:42	19°♈36'12	1.45585 AU
	9878 Apr 12 17:58	0°♉	
evening rise	9878 Apr 21 22:36	14°♉31'14	
greatest brilliancy	9878 Apr 30 15:55	28°♉20'32	-0.8m
	9878 May 01 17:23	0°♊	
asc. node	9878 May 10 23:31	13°♊20'51	
evening max el	9878 May 13 17:43	16°♊27'48	18°49'43
retrograde	9878 May 20 10:08	20°♊09'07	
evening set	9878 May 23 18:05	19°♊05'18	
inferior conj	9878 May 29 07:49	13°♊24'17	3°16'39
minimum elong	9878 May 29 08:36	13°♊21'49	3°16'13
min. Earth dist.	9878 May 31 02:50	11°♊10'07	0.65839 AU
morning rise	9878 Jun 03 22:27	7°♊04'26	
direct	9878 Jun 10 08:43	4°♊19'17	
desc. node	9878 Jun 14 02:07	5°♊06'09	
morning max el	9878 Jun 23 11:41	12°♊07'03	26°42'34
	9878 Jul 07 18:57	0°♋	
	9878 Jul 26 04:38	0°♌	
morning set	9878 Jul 29 08:08	5°♌51'30	
max. Earth dist.	9878 Aug 02 11:39	13°♌55'30	1.34276 AU
asc. node	9878 Aug 06 22:55	23°♌01'28	
superior conj	9878 Aug 07 02:02	23°♌17'41	0°01'18
minimum elong	9878 Aug 07 01:59	23°♌17'22	0°01'02
behind sun begin	9878 Aug 06 20:13	22°♌47'25	
behind sun end	9878 Aug 07 07:45	23°♌47'21	
	9878 Aug 10 06:46	0°♍	
evening rise	9878 Aug 14 12:34	8°♍56'38	
	9878 Aug 25 15:02	0°♎	
evening max el	9878 Sep 03 01:29	11°♎00'35	21°13'37
desc. node	9878 Sep 10 00:36	15°♎54'56	
retrograde	9878 Sep 15 00:49	16°♎56'49	
evening set	9878 Sep 17 11:33	16°♎42'55	
inferior conj	9878 Sep 26 15:23	12°♎46'58	-4°37'27
minimum elong	9878 Sep 26 05:45	13°♎00'31	4°34'59
min. Earth dist.	9878 Sep 27 00:06	12°♎34'42	0.54629 AU
morning rise	9878 Oct 05 00:30	8°♎54'46	
direct	9878 Oct 08 20:36	8°♎23'01	
morning max el	9878 Oct 21 14:27	14°♎28'01	22°35'44
	9878 Nov 02 09:59	0°♏	
asc. node	9878 Nov 02 23:08	0°♏55'34	
morning set	9878 Nov 12 18:17	19°♏55'17	
	9878 Nov 17 11:19	0°♐	
superior conj	9878 Nov 19 18:57	4°♐57'46	1°39'28
minimum elong	9878 Nov 19 19:34	5°♐01'01	1°39'49
max. Earth dist.	9878 Nov 23 04:37	12°♐06'47	1.33952 AU
evening rise	9878 Nov 27 18:45	21°♐20'58	
	9878 Dec 02 08:27	0°♑	
desc. node	9878 Dec 06 22:55	8°♑08'24	
	9878 Dec 21 06:53	0°♒	
evening max el	9879 Jan 01 12:40	13°♒05'33	27°08'01
retrograde	9879 Jan 14 22:05	20°♒27'28	
evening set	9879 Jan 21 14:59	17°♒53'06	
min. Earth dist.	9879 Jan 25 13:21	14°♒07'51	0.65253 AU
inferior conj	9879 Jan 27 18:14	11°♒39'50	-0°43'22
minimum elong	9879 Jan 27 19:30	11°♒36'16	0°42'31
asc. node	9879 Jan 29 22:22	9°♒18'57	
morning rise	9879 Feb 03 01:25	6°♒07'26	
direct	9879 Feb 05 17:50	5°♒28'56	
morning max el	9879 Feb 12 03:29	8°♒51'22	18°01'37
	9879 Feb 26 18:29	0°♓	
morning set	9879 Mar 02 04:36	5°♓37'05	
desc. node	9879 Mar 04 22:47	10°♓08'15	
superior conj	9879 Mar 16 15:38	28°♓57'40	-1°19'15
minimum elong	9879 Mar 16 07:02	28°♓23'40	1°18'12
	9879 Mar 17 07:24	0°♈	
max. Earth dist.	9879 Mar 19 22:31	4°♈08'22	1.45442 AU
evening rise	9879 Apr 01 18:49	24°♈06'01	
	9879 Apr 05 14:46	0°♉	
greatest brilliancy	9879 Apr 15 07:41	14°♉43'35	-0.7m
	9879 Apr 26 21:19	0°♊	
evening max el	9879 Apr 27 00:30	0°♊08'06	19°37'36
asc. node	9879 Apr 27 20:40	0°♊57'08	
retrograde	9879 May 04 07:45	4°♊17'33	
evening set	9879 May 08 00:14	2°♊58'16	
	9879 May 11 01:39	30°℞♉	
inferior conj	9879 May 13 09:16	27°♉02'39	3°18'43
minimum elong	9879 May 13 08:52	27°♉03'58	3°18'22
min. Earth dist.	9879 May 14 13:21	25°♉29'30	0.67191 AU
morning rise	9879 May 18 17:10	20°♉43'16	
direct	9879 May 24 17:16	18°♉03'36	
desc. node	9879 May 31 23:06	20°♉59'36	
morning max el	9879 Jun 05 21:38	25°♉21'41	25°27'44
	9879 Jun 10 02:52	0°♊	
	9879 Jul 01 06:58	0°♋	
morning set	9879 Jul 11 23:20	18°♋15'20	
max. Earth dist.	9879 Jul 15 15:10	25°♋00'38	1.36147 AU
	9879 Jul 18 05:55	0°♌	
superior conj	9879 Jul 21 16:56	6°♌47'42	-0°30'15
minimum elong	9879 Jul 21 18:48	6°♌57'01	0°30'13
asc. node	9879 Jul 24 19:49	13°♌05'12	
evening rise	9879 Jul 29 18:37	23°♌12'02	
	9879 Aug 02 03:57	0°♍	
evening max el	9879 Aug 16 07:59	22°♍00'24	19°55'32
retrograde	9879 Aug 26 15:11	27°♍06'41	
desc. node	9879 Aug 27 21:49	27°♍02'18	
evening set	9879 Aug 28 12:34	26°♍57'08	
inferior conj	9879 Sep 06 11:52	22°♍56'42	-2°54'53
minimum elong	9879 Sep 06 04:04	23°♍08'33	2°52'11
min. Earth dist.	9879 Sep 08 10:03	21°♍46'42	0.55117 AU
morning rise	9879 Sep 14 18:02	18°♍40'56	
direct	9879 Sep 19 09:05	17°♍54'11	
morning max el	9879 Oct 03 02:22	24°♍39'59	24°22'46
	9879 Oct 08 00:34	0°♎	
asc. node	9879 Oct 20 20:02	19°♎48'25	
	9879 Oct 26 00:12	0°♏	
morning set	9879 Oct 28 06:05	4°♏43'15	
superior conj	9879 Nov 04 02:45	19°♏39'40	1°39'36
minimum elong	9879 Nov 04 02:12	19°♏36'36	1°39'52
max. Earth dist.	9879 Nov 06 04:55	24°♏11'53	1.32673 AU
	9879 Nov 08 22:19	0°♐	
evening rise	9879 Nov 11 11:55	5°♐18'15	
desc. node	9879 Nov 23 20:00	28°♐05'33	
	9879 Nov 24 23:51	0°♑	
evening max el	9879 Dec 15 00:42	26°♑20'14	27°29'46
	9879 Dec 19 09:14	0°♒	
retrograde	9879 Dec 28 17:33	3°♒40'01	
evening set	9880 Jan 04 17:19	1°♒10'23	
	9880 Jan 06 05:31	30°℞♑	
min. Earth dist.	9880 Jan 08 11:34	27°♑56'13	0.63522 AU
inferior conj	9880 Jan 11 03:32	25°♑14'51	-1°52'22
minimum elong	9880 Jan 11 07:08	25°♑05'44	1°50'31
asc. node	9880 Jan 16 19:29	20°♑29'50	
morning rise	9880 Jan 17 22:57	19°♑57'50	
direct	9880 Jan 20 08:16	19°♑30'06	
morning max el	9880 Jan 26 21:00	22°♑52'23	17°47'54
	9880 Feb 01 11:58	0°♒	
morning set	9880 Feb 12 07:02	17°♒54'27	
	9880 Feb 19 09:05	0°♓	
desc. node	9880 Feb 19 19:38	0°♓44'19	

superior conj	9880 Feb 24	19:15	9°♓00'20	-0°36'27
minimum elong	9880 Feb 24	15:21	8°♓44'22	0°35'41
max. Earth dist.	9880 Mar 01	17:26	18°♓34'12	1.44572 AU
	9880 Mar 09	00:18	0°♈	
evening rise	9880 Mar 11	06:18	3°♈28'09	
	9880 Mar 29	02:48	0°♉	
evening max el	9880 Apr 09	01:47	13°♉50'17	20°39'50
asc. node	9880 Apr 13	17:49	17°♉35'46	
retrograde	9880 Apr 17	06:26	18°♉37'07	
evening set	9880 Apr 21	08:20	17°♉02'10	
inferior conj	9880 Apr 26	15:21	10°♉53'40	3°08'32
minimum elong	9880 Apr 26	14:01	10°♉58'19	3°08'08
min. Earth dist.	9880 Apr 27	05:26	10°♉05'12	0.68089 AU
morning rise	9880 May 01	19:28	4°♉37'06	
direct	9880 May 07	06:54	2°♉11'26	
desc. node	9880 May 17	20:01	8°♉18'30	
morning max el	9880 May 18	07:02	8°♉46'04	24°00'36
	9880 Jun 03	23:23	0°♊	
morning set	9880 Jun 22	18:38	29°♊42'14	
	9880 Jun 22	22:45	0°♋	
max. Earth dist.	9880 Jun 26	12:36	6°♋15'33	1.38337 AU
superior conj	9880 Jul 03	19:28	19°♋40'16	-1°03'08
minimum elong	9880 Jul 03	23:36	19°♋59'54	1°02'50
	9880 Jul 09	03:34	0°♌	
asc. node	9880 Jul 10	16:45	3°♌02'49	
evening rise	9880 Jul 12	18:15	7°♌06'28	
	9880 Jul 25	21:29	0°♍	
evening max el	9880 Jul 29	03:29	3°♍46'09	18°58'16
retrograde	9880 Aug 06	20:02	8°♍05'32	
evening set	9880 Aug 08	17:44	7°♍53'54	
desc. node	9880 Aug 13	18:59	5°♍46'27	
inferior conj	9880 Aug 17	00:51	3°♍37'38	-1°00'14
minimum elong	9880 Aug 16	22:17	3°♍42'08	0°59'26
min. Earth dist.	9880 Aug 20	00:04	1°♍33'38	0.56466 AU
	9880 Aug 22	11:44	30°℞♌	
morning rise	9880 Aug 24	23:39	28°♌45'18	
direct	9880 Aug 30	09:57	27°♌35'39	
	9880 Sep 07	08:20	0°♍	
morning max el	9880 Sep 13	15:28	4°♍54'32	26°01'15
	9880 Oct 01	19:36	0°♎	
asc. node	9880 Oct 06	16:54	9°♎08'38	
morning set	9880 Oct 11	17:06	19°♎26'29	
	9880 Oct 16	13:12	0°♏	
superior conj	9880 Oct 18	13:30	4°♏27'39	1°33'45
minimum elong	9880 Oct 18	12:01	4°♏19'22	1°33'50
max. Earth dist.	9880 Oct 19	11:26	6°♏28'57	1.31857 AU
evening rise	9880 Oct 25	13:07	19°♏35'55	
	9880 Oct 30	17:10	0°♐	
desc. node	9880 Nov 09	17:07	17°♐34'17	
	9880 Nov 18	08:41	0°♑	
evening max el	9880 Nov 26	08:53	8°♑58'51	27°20'13
retrograde	9880 Dec 10	05:30	16°♑12'54	
evening set	9880 Dec 17	06:19	13°♑56'55	
min. Earth dist.	9880 Dec 20	23:17	11°♑07'46	0.61538 AU
inferior conj	9880 Dec 24	00:15	8°♑24'54	-3°05'54
minimum elong	9880 Dec 24	06:22	8°♑11'11	3°03'16
morning rise	9880 Dec 31	08:53	3°♑26'37	
direct	9881 Jan 02	13:39	3°♑06'04	
asc. node	9881 Jan 02	16:34	3°♑06'07	
morning max el	9881 Jan 09	13:16	6°♑37'37	17°52'11
	9881 Jan 24	14:33	0°♒	
morning set	9881 Jan 25	05:45	1°♒08'45	
superior conj	9881 Feb 04	23:56	20°♒14'43	0°05'13
minimum elong	9881 Feb 05	00:26	20°♒16'50	0°05'25
behind sun begin	9881 Feb 04	16:25	19°♒42'23	
behind sun end	9881 Feb 05	08:26	20°♒51'12	
desc. node	9881 Feb 05	16:28	21°♒25'40	
	9881 Feb 10	18:50	0°♓	
max. Earth dist.	9881 Feb 12	08:31	2°♓34'47	1.43075 AU
evening rise	9881 Feb 19	00:08	13°♓13'19	
	9881 Mar 02	00:55	0°♈	
evening max el	9881 Mar 22	21:35	27°♈32'57	21°53'10
	9881 Mar 25	13:24	0°♉	
asc. node	9881 Mar 31	14:59	3°♉00'40	
retrograde	9881 Apr 01	04:18	3°♉02'12	
evening set	9881 Apr 05	16:36	1°♉11'57	
	9881 Apr 06	23:19	30°℞♈	
inferior conj	9881 Apr 10	23:50	24°♈52'56	2°47'51
minimum elong	9881 Apr 10	21:52	24°♈59'49	2°47'18
min. Earth dist.	9881 Apr 11	00:58	24°♈48'57	0.68530 AU
morning rise	9881 Apr 16	02:58	18°♈40'42	
direct	9881 Apr 21	00:46	16°♈34'18	
morning max el	9881 Apr 30	18:01	22°♈17'59	22°30'58
desc. node	9881 May 04	16:54	26°♈39'04	
	9881 May 07	10:25	0°♉	
	9881 May 28	06:49	0°♊	
morning set	9881 Jun 03	12:55	9°♊59'29	
max. Earth dist.	9881 Jun 08	10:22	18°♊07'56	1.40607 AU
	9881 Jun 15	06:00	0°♋	
superior conj	9881 Jun 16	05:24	1°♋44'58	-1°34'27
minimum elong	9881 Jun 16	11:23	2°♋11'52	1°34'07
evening rise	9881 Jun 26	08:11	20°♋30'57	
asc. node	9881 Jun 27	13:43	22°♋49'55	
	9881 Jul 01	10:40	0°♌	
evening max el	9881 Jul 12	08:54	16°♌12'26	18°22'03
retrograde	9881 Jul 19	19:51	19°♌57'06	
evening set	9881 Jul 21	23:55	19°♌38'53	
inferior conj	9881 Jul 29	11:30	15°♌02'45	0°39'19
minimum elong	9881 Jul 29	12:51	14°♌59'59	0°38'32
desc. node	9881 Jul 31	16:07	13°♌14'23	
min. Earth dist.	9881 Aug 01	20:14	12°♌18'20	0.58424 AU
morning rise	9881 Aug 05	22:18	9°♌34'31	
direct	9881 Aug 12	01:25	7°♌55'21	
morning max el	9881 Aug 26	10:39	15°♌38'36	27°14'39
	9881 Sep 07	02:57	0°♍	
asc. node	9881 Sep 23	13:46	28°♍48'44	
	9881 Sep 24	03:41	0°♎	
morning set	9881 Sep 26	01:45	4°♎00'19	
superior conj	9881 Oct 03	01:18	19°♎15'52	1°22'22
minimum elong	9881 Oct 02	23:13	19°♎04'17	1°22'12
max. Earth dist.	9881 Oct 02	20:55	18°♎51'25	1.31513 AU
	9881 Oct 07	21:55	0°♏	
evening rise	9881 Oct 09	19:50	4°♏07'19	
	9881 Oct 23	11:32	0°♐	
desc. node	9881 Oct 27	14:15	6°♐23'30	
evening max el	9881 Nov 08	10:37	20°♐50'42	26°36'38
retrograde	9881 Nov 22	08:54	27°♐58'10	
evening set	9881 Nov 29	01:55	26°♐06'04	
min. Earth dist.	9881 Dec 03	00:27	23°♐30'16	0.59431 AU
inferior conj	9881 Dec 06	04:56	21°♐01'09	-4°17'44
minimum elong	9881 Dec 06	12:41	20°♐46'00	4°15'10
morning rise	9881 Dec 14	02:03	16°♐24'21	
direct	9881 Dec 16	05:51	16°♐07'37	
asc. node	9881 Dec 20	13:36	17°♐18'36	
morning max el	9881 Dec 24	00:45	19°♐57'47	18°15'47
	9881 Dec 31	11:37	0°♑	
morning set	9882 Jan 08	18:53	15°♑02'43	
	9882 Jan 16	18:04	0°♒	

superior conj	9882 Jan 18	04:02	2°♒35'06	0°40'22
minimum elong	9882 Jan 18	06:47	2°♒47'34	0°40'18
desc. node	9882 Jan 23	13:23	12°♒09'03	
max. Earth dist.	9882 Jan 25	18:23	15°♒56'26	1.41127 AU
evening rise	9882 Jan 30	11:42	23°♒48'04	
	9882 Feb 03	08:20	0°♓	
	9882 Feb 23	23:18	0°♈	
evening max el	9882 Mar 05	13:19	11°♈17'52	23°12'45
retrograde	9882 Mar 15	23:47	17°♈28'13	
asc. node	9882 Mar 18	12:09	16°♈57'31	
evening set	9882 Mar 20	23:28	15°♈23'35	
inferior conj	9882 Mar 26	08:47	8°♈57'19	2°17'37
minimum elong	9882 Mar 26	06:34	9°♈04'56	2°16'58
min. Earth dist.	9882 Mar 25	21:48	9°♈35'14	0.68531 AU
morning rise	9882 Mar 31	13:36	2°♈50'41	
direct	9882 Apr 04	21:50	1°♈05'57	
morning max el	9882 Apr 13	09:47	5°♈59'34	21°07'12
desc. node	9882 Apr 21	13:47	15°♈44'28	
	9882 May 01	15:48	0°♉	
morning set	9882 May 14	04:43	19°♉05'11	
	9882 May 21	00:42	0°♊	
max. Earth dist.	9882 May 21	13:33	0°♊52'22	1.42688 AU
superior conj	9882 May 28	18:12	12°♊52'08	-1°59'35
minimum elong	9882 May 28	23:58	13°♊16'44	1°59'32
	9882 Jun 07	12:46	0°♋	
evening rise	9882 Jun 09	08:15	3°♋15'08	
asc. node	9882 Jun 14	10:44	12°♋21'33	
evening max el	9882 Jun 25	20:18	29°♋09'38	18°05'48
	9882 Jun 26	18:01	0°♌	
retrograde	9882 Jul 02	12:54	2°♌34'39	
evening set	9882 Jul 05	00:48	2°♌06'15	
	9882 Jul 08	13:53	30°℞♋	
inferior conj	9882 Jul 11	18:40	27°♋10'02	1°53'11
minimum elong	9882 Jul 11	21:29	27°♋03'21	1°51'59
min. Earth dist.	9882 Jul 15	00:06	24°♋07'17	0.60672 AU
morning rise	9882 Jul 18	15:25	21°♋15'26	
desc. node	9882 Jul 18	13:16	21°♋18'56	
direct	9882 Jul 25	05:31	19°♋06'41	
morning max el	9882 Aug 08	12:36	27°♋04'31	27°52'22
	9882 Aug 11	07:13	0°♌	
	9882 Aug 31	18:48	0°♍	
morning set	9882 Sep 10	06:07	18°♍18'31	
asc. node	9882 Sep 10	10:38	18°♍41'58	
	9882 Sep 15	17:09	0°♎	
max. Earth dist.	9882 Sep 16	05:34	1°♎08'11	1.31651 AU
superior conj	9882 Sep 17	12:17	3°♎57'42	1°05'44
minimum elong	9882 Sep 17	10:03	3°♎45'21	1°05'22
evening rise	9882 Sep 24	05:52	18°♎45'22	
	9882 Sep 29	16:37	0°♏	
desc. node	9882 Oct 14	11:25	24°♏16'47	
	9882 Oct 19	07:56	0°♐	
evening max el	9882 Oct 21	04:22	1°♐51'19	25°21'44
retrograde	9882 Nov 04	01:43	8°♐51'03	
evening set	9882 Nov 09	23:18	7°♐31'24	
min. Earth dist.	9882 Nov 14	16:32	4°♐52'12	0.57411 AU
inferior conj	9882 Nov 17	14:22	2°♐53'51	-5°16'11
minimum elong	9882 Nov 17	20:48	2°♐42'53	5°14'48
	9882 Nov 22	07:07	30°℞♏	
morning rise	9882 Nov 25	20:38	28°♏39'24	
direct	9882 Nov 28	04:46	28°♏23'03	
	9882 Dec 03	16:45	0°♐	
morning max el	9882 Dec 07	03:33	2°♐41'20	19°00'32
asc. node	9882 Dec 07	10:38	2°♐58'38	
morning set	9882 Dec 23	17:54	29°♐22'51	
	9882 Dec 24	01:26	0°♑	

superior conj	9883 Jan 01	02:45	15°♑47'22	1°07'13
minimum elong	9883 Jan 01	05:54	16°♑02'30	1°07'12
max. Earth dist.	9883 Jan 08	00:39	28°♑35'55	1.38954 AU
	9883 Jan 08	19:32	0°♒	
desc. node	9883 Jan 10	10:18	2°♒50'25	
evening rise	9883 Jan 11	20:54	5°♒20'02	
	9883 Jan 27	09:56	0°♓	
evening max el	9883 Feb 16	03:06	25°♓06'22	24°32'27
	9883 Feb 22	02:27	0°♈	
retrograde	9883 Feb 27	15:35	1°♈50'23	
	9883 Mar 04	14:01	30°℞♓	
evening set	9883 Mar 05	03:26	29°♓32'54	
asc. node	9883 Mar 05	09:21	29°♓20'03	
min. Earth dist.	9883 Mar 09	17:38	24°♓19'27	0.68113 AU
inferior conj	9883 Mar 10	16:21	23°♓03'32	1°38'19
minimum elong	9883 Mar 10	14:22	23°♓10'10	1°37'42
morning rise	9883 Mar 16	01:26	17°♓04'01	
direct	9883 Mar 19	20:51	15°♓40'55	
morning max el	9883 Mar 27	08:55	19°♓53'03	19°55'13
	9883 Apr 04	15:29	0°♈	
desc. node	9883 Apr 08	10:39	5°♈22'35	
morning set	9883 Apr 23	03:59	27°♈30'28	
	9883 Apr 24	18:45	0°♉	
max. Earth dist.	9883 May 04	00:12	14°♉28'01	1.44324 AU
superior conj	9883 May 09	06:46	22°♉56'40	-2°12'19
minimum elong	9883 May 09	08:17	23°♉02'53	2°12'36
	9883 May 13	14:01	0°♊	
evening rise	9883 May 22	13:42	15°♊08'31	
	9883 May 31	08:54	0°♋	
asc. node	9883 Jun 01	07:47	1°♋32'10	
evening max el	9883 Jun 09	10:01	12°♋28'28	18°08'33
retrograde	9883 Jun 15	19:03	15°♋48'57	
evening set	9883 Jun 18	14:47	15°♋07'47	
inferior conj	9883 Jun 24	18:39	9°♋52'44	2°41'39
minimum elong	9883 Jun 24	21:12	9°♋45'51	2°40'42
min. Earth dist.	9883 Jun 27	12:53	6°♋55'09	0.62898 AU
morning rise	9883 Jul 01	01:54	3°♋42'18	
desc. node	9883 Jul 05	10:23	1°♋29'26	
direct	9883 Jul 07	19:30	1°♋11'03	
morning max el	9883 Jul 21	19:56	9°♋13'35	27°51'41
	9883 Aug 06	22:45	0°♌	
	9883 Aug 24	01:03	0°♍	
morning set	9883 Aug 25	04:07	2°♍15'30	
asc. node	9883 Aug 28	07:31	8°♍43'35	
max. Earth dist.	9883 Aug 30	09:45	13°♍09'44	1.32285 AU
superior conj	9883 Sep 01	20:38	18°♍27'42	0°44'11
minimum elong	9883 Sep 01	18:46	18°♍17'34	0°43'43
	9883 Sep 07	03:26	0°♎	
evening rise	9883 Sep 08	17:23	3°♎24'43	
	9883 Sep 22	22:22	0°♏	
desc. node	9883 Oct 01	08:37	10°♏52'41	
evening max el	9883 Oct 02	15:59	12°♏11'33	23°46'03
retrograde	9883 Oct 16	05:47	18°♏58'25	
evening set	9883 Oct 20	20:07	18°♏12'19	
min. Earth dist.	9883 Oct 27	02:19	15°♏11'23	0.55765 AU
inferior conj	9883 Oct 29	03:27	13°♏57'49	-5°42'40
minimum elong	9883 Oct 29	03:54	13°♏57'09	5°42'25
morning rise	9883 Nov 06	13:37	10°♏02'42	
direct	9883 Nov 09	08:29	9°♏43'13	
morning max el	9883 Nov 19	18:13	14°♏38'15	20°07'57
asc. node	9883 Nov 24	07:39	19°♏51'17	
	9883 Nov 30	18:19	0°♐	
morning set	9883 Dec 07	23:27	13°♐59'33	
superior conj	9883 Dec 15	15:19	29°♐38'20	1°25'43

minimum elong	9883 Dec 15 17:48	29°♐50'47	1°25'53
	9883 Dec 15 19:38	0°♑	
max. Earth dist.	9883 Dec 21 07:31	10°♑43'40	1.36803 AU
evening rise	9883 Dec 25 02:22	17°♑44'33	
desc. node	9883 Dec 28 07:16	23°♑25'59	
	9884 Jan 01 03:57	0°♒	
	9884 Jan 21 17:26	0°♓	
evening max el	9884 Jan 29 16:29	8°♓55'39	25°45'08
retrograde	9884 Feb 11 02:39	16°♓02'44	
evening set	9884 Feb 17 02:50	13°♓34'55	
asc. node	9884 Feb 20 06:33	10°♓20'43	
min. Earth dist.	9884 Feb 21 10:09	8°♓56'24	0.67300 AU
inferior conj	9884 Feb 22 20:36	7°♓07'21	0°50'04
minimum elong	9884 Feb 22 19:23	7°♓11'12	0°49'47
morning rise	9884 Feb 28 12:26	1°♓16'46	
direct	9884 Mar 02 20:12	0°♓13'31	
morning max el	9884 Mar 09 15:51	3°♓56'35	18°58'10
greatest brilliancy	9884 Mar 23 11:16	22°♓35'07	-0.8m
desc. node	9884 Mar 25 07:28	25°♓24'05	
	9884 Mar 28 07:04	0°♈	
morning set	9884 Apr 01 09:20	6°♈20'52	
max. Earth dist.	9884 Apr 15 16:53	28°♈40'11	1.45333 AU
	9884 Apr 16 13:13	0°♉	
superior conj	9884 Apr 17 21:28	2°♉06'52	-2°06'38
minimum elong	9884 Apr 17 15:42	1°♉44'11	2°06'34
evening rise	9884 May 02 20:14	26°♉02'42	
	9884 May 05 06:33	0°♊	
asc. node	9884 May 18 04:54	20°♊13'43	
evening max el	9884 May 22 22:49	25°♊59'46	18°29'36
retrograde	9884 May 29 10:00	29°♊29'45	
evening set	9884 Jun 01 13:26	28°♊34'22	
inferior conj	9884 Jun 07 07:15	23°♊02'08	3°08'53
minimum elong	9884 Jun 07 08:45	22°♊57'39	3°08'18
min. Earth dist.	9884 Jun 09 10:53	20°♊28'33	0.64872 AU
morning rise	9884 Jun 13 03:09	16°♊44'00	
direct	9884 Jun 19 17:32	14°♊00'57	
desc. node	9884 Jun 21 07:27	14°♊09'20	
morning max el	9884 Jul 03 06:11	21°♊57'36	27°16'08
	9884 Jul 10 06:48	0°♋	
	9884 Jul 30 03:57	0°♌	
morning set	9884 Aug 07 17:03	15°♌43'55	
max. Earth dist.	9884 Aug 12 05:48	24°♌47'40	1.33413 AU
asc. node	9884 Aug 14 04:25	28°♌49'01	
	9884 Aug 14 17:58	0°♍	
superior conj	9884 Aug 16 00:14	2°♍39'42	0°18'06
minimum elong	9884 Aug 15 23:20	2°♍34'56	0°17'43
evening rise	9884 Aug 23 04:25	17°♍59'28	
	9884 Aug 29 02:11	0°♎	
evening max el	9884 Sep 13 04:37	22°♎21'09	22°06'23
desc. node	9884 Sep 17 05:49	25°♎43'30	
retrograde	9884 Sep 25 22:17	28°♎41'37	
evening set	9884 Sep 29 01:15	28°♎19'54	
min. Earth dist.	9884 Oct 07 09:42	24°♎40'34	0.54789 AU
inferior conj	9884 Oct 08 00:25	24°♎19'56	-5°17'43
minimum elong	9884 Oct 07 17:05	24°♎30'14	5°16'24
morning rise	9884 Oct 16 10:28	20°♎32'45	
direct	9884 Oct 19 20:35	20°♎06'49	
morning max el	9884 Oct 31 19:28	25°♎45'08	21°37'07
	9884 Nov 04 17:49	0°♏	
asc. node	9884 Nov 10 04:37	7°♏41'09	
morning set	9884 Nov 21 09:01	28°♏45'47	
	9884 Nov 21 23:11	0°♐	
superior conj	9884 Nov 28 13:48	13°♐56'58	1°36'29
minimum elong	9884 Nov 28 15:08	14°♐03'55	1°36'47
max. Earth dist.	9884 Dec 02 19:24	22°♐37'52	1.34884 AU
	9884 Dec 06 13:31	0°♑	
evening rise	9884 Dec 07 00:37	0°♑53'00	
desc. node	9884 Dec 14 04:16	13°♑51'31	
	9884 Dec 24 05:22	0°♒	
evening max el	9885 Jan 11 05:54	22°♒39'32	26°43'33
retrograde	9885 Jan 24 08:18	29°♒59'02	
evening set	9885 Jan 30 19:53	27°♒25'05	
min. Earth dist.	9885 Feb 03 21:10	23°♒21'02	0.66105 AU
inferior conj	9885 Feb 05 19:27	21°♒04'52	-0°06'50
minimum elong	9885 Feb 05 19:37	21°♒04'21	0°06'30
transit middle	9885 Feb 05 19:37	21°♒04'21	0°06'30
transit begin	9885 Feb 05 16:56	21°♒12'16	
transit end	9885 Feb 05 22:18	20°♒56'26	
asc. node	9885 Feb 06 03:43	20°♒40'32	
morning rise	9885 Feb 11 20:26	15°♒25'21	
direct	9885 Feb 14 17:57	14°♒38'55	
morning max el	9885 Feb 21 05:04	18°♒05'30	18°17'28
	9885 Mar 02 05:59	0°♓	
desc. node	9885 Mar 12 04:18	15°♓42'56	
morning set	9885 Mar 12 15:51	16°♓29'11	
	9885 Mar 21 03:22	0°♈	
superior conj	9885 Mar 28 03:10	11°♈00'04	-1°40'57
minimum elong	9885 Mar 27 17:36	10°♈22'35	1°40'06
max. Earth dist.	9885 Mar 29 12:22	13°♈10'00	1.45615 AU
	9885 Apr 09 07:01	0°♉	
evening rise	9885 Apr 13 03:25	6°♉01'16	
greatest brilliancy	9885 Apr 24 01:31	23°♉00'39	-0.8m
	9885 Apr 28 18:00	0°♊	
asc. node	9885 May 05 02:01	8°♊17'02	
evening max el	9885 May 06 08:14	9°♊37'32	19°08'04
retrograde	9885 May 13 06:06	13°♊29'46	
evening set	9885 May 16 17:34	12°♊19'21	
inferior conj	9885 May 22 04:54	6°♊31'39	3°19'08
minimum elong	9885 May 22 05:11	6°♊30'47	3°18'47
min. Earth dist.	9885 May 23 17:24	4°♊34'20	0.66466 AU
morning rise	9885 May 27 16:18	0°♊11'27	
	9885 May 27 21:34	30°℞♉	
direct	9885 Jun 02 22:28	27°♉27'40	
desc. node	9885 Jun 08 04:29	29°♉00'37	
	9885 Jun 09 19:03	0°♊	
morning max el	9885 Jun 15 16:53	5°♊04'53	26°12'57
	9885 Jul 04 19:02	0°♋	
morning set	9885 Jul 21 17:28	28°♋34'52	
	9885 Jul 22 11:41	0°♌	
max. Earth dist.	9885 Jul 25 15:21	6°♌01'35	1.35022 AU
superior conj	9885 Jul 30 20:37	16°♌27'05	-0°11'47
minimum elong	9885 Jul 30 21:18	16°♌30'38	0°11'57
behind sun begin	9885 Jul 30 17:16	16°♌09'58	
behind sun end	9885 Jul 31 01:21	16°♌51'20	
asc. node	9885 Aug 01 01:18	18°♌54'22	
	9885 Aug 06 09:15	0°♍	
evening rise	9885 Aug 07 12:57	2°♍23'47	
	9885 Aug 23 11:17	0°♎	
evening max el	9885 Aug 26 03:12	2°♎56'05	20°37'55
desc. node	9885 Sep 04 03:01	8°♎18'42	
retrograde	9885 Sep 06 10:23	8°♎32'21	
evening set	9885 Sep 08 13:06	8°♎21'25	
inferior conj	9885 Sep 17 16:51	4°♎24'55	-3°57'40
minimum elong	9885 Sep 17 07:12	4°♎38'48	3°54'45
min. Earth dist.	9885 Sep 18 18:20	3°♎48'13	0.54715 AU
morning rise	9885 Sep 26 01:04	0°♎24'55	
	9885 Sep 27 20:19	30°℞♍	
direct	9885 Sep 30 04:43	29°♍47'56	
	9885 Oct 02 12:28	0°♎	

morning max el	9885 Oct 13	10:28	6°♎11'11	23°21'16
asc. node	9885 Oct 28	01:32	26°♎14'08	
	9885 Oct 30	02:54	0°♏	
morning set	9885 Nov 05	20:29	13°♏34'31	
superior conj	9885 Nov 12	18:57	28°♏32'47	1°40'18
minimum elong	9885 Nov 12	19:03	28°♏33'18	1°40'37
	9885 Nov 13	11:11	0°♐	
max. Earth dist.	9885 Nov 15	14:53	4°♐35'03	1.33347 AU
evening rise	9885 Nov 20	11:50	14°♐34'54	
	9885 Nov 28	17:25	0°♑	
desc. node	9885 Dec 01	01:17	4°♑00'47	
	9885 Dec 19	01:26	0°♒	
evening max el	9885 Dec 24	18:42	6°♒07'33	27°20'39
retrograde	9886 Jan 07	07:56	13°♒30'02	
evening set	9886 Jan 14	04:20	10°♒56'20	
min. Earth dist.	9886 Jan 18	00:35	7°♒25'01	0.64554 AU
inferior conj	9886 Jan 20	10:27	4°♒49'42	-1°11'52
minimum elong	9886 Jan 20	12:39	4°♒43'45	1°10'36
asc. node	9886 Jan 24	00:51	1°♒16'41	
	9886 Jan 25	18:56	30°℞♑	
morning rise	9886 Jan 26	22:42	29°♑23'45	
direct	9886 Jan 29	11:45	28°♑50'25	
	9886 Feb 02	04:32	0°♒	
morning max el	9886 Feb 04	21:54	2°♒11'39	17°53'39
morning set	9886 Feb 22	03:27	28°♒03'03	
	9886 Feb 23	07:23	0°♓	
desc. node	9886 Feb 27	01:07	6°♓13'30	
superior conj	9886 Mar 07	18:37	20°♓26'33	-1°01'28
minimum elong	9886 Mar 07	11:48	19°♓59'13	1°00'28
max. Earth dist.	9886 Mar 12	07:39	27°♓39'32	1.45152 AU
	9886 Mar 13	19:23	0°♈	
evening rise	9886 Mar 23	18:00	15°♈25'08	
	9886 Apr 02	08:10	0°♉	
greatest brilliancy	9886 Apr 07	15:47	7°♉52'50	-0.6m
evening max el	9886 Apr 19	12:38	23°♉18'05	20°02'29
asc. node	9886 Apr 21	23:08	25°♉30'15	
retrograde	9886 Apr 27	04:29	27°♉43'01	
evening set	9886 May 01	00:45	26°♉17'14	
inferior conj	9886 May 06	08:37	20°♉15'49	3°15'46
minimum elong	9886 May 06	07:48	20°♉18'38	3°15'26
min. Earth dist.	9886 May 07	06:40	19°♉01'16	0.67622 AU
morning rise	9886 May 11	14:32	13°♉57'07	
direct	9886 May 17	09:22	11°♉22'27	
desc. node	9886 May 26	01:27	15°♉33'17	
morning max el	9886 May 29	02:35	18°♉24'26	24°51'36
	9886 Jun 07	20:46	0°♊	
	9886 Jun 27	20:32	0°♋	
morning set	9886 Jul 04	00:55	10°♋36'38	
max. Earth dist.	9886 Jul 07	15:17	17°♋06'00	1.37041 AU
superior conj	9886 Jul 14	06:44	29°♋42'22	-0°44'10
minimum elong	9886 Jul 14	09:33	29°♋56'08	0°44'01
	9886 Jul 14	10:20	0°♌	
asc. node	9886 Jul 18	22:12	8°♌55'56	
evening rise	9886 Jul 22	16:38	16°♌31'13	
	9886 Jul 29	16:26	0°♍	
evening max el	9886 Aug 08	15:35	14°♍16'16	19°28'40
retrograde	9886 Aug 18	05:47	19°♍01'30	
evening set	9886 Aug 20	01:55	18°♍51'47	
desc. node	9886 Aug 22	00:14	18°♍22'03	
inferior conj	9886 Aug 28	19:20	14°♍45'59	-2°05'53
minimum elong	9886 Aug 28	13:40	14°♍55'04	2°03'52
min. Earth dist.	9886 Aug 31	06:11	13°♍11'45	0.55591 AU
morning rise	9886 Sep 05	22:56	10°♍15'04	
direct	9886 Sep 10	22:14	9°♍19'25	

morning max el	9886 Sep 24	22:11	16°♍21'17	25°06'39
	9886 Oct 05	23:24	0°♎	
asc. node	9886 Oct 14	22:25	15°♎19'41	
morning set	9886 Oct 21	08:09	28°♎21'04	
	9886 Oct 22	02:35	0°♏	
superior conj	9886 Oct 28	04:17	13°♏18'23	1°37'50
minimum elong	9886 Oct 28	03:18	13°♏12'56	1°38'01
max. Earth dist.	9886 Oct 29	17:57	16°♏44'48	1.32268 AU
evening rise	9886 Nov 04	08:47	28°♏42'02	
	9886 Nov 05	00:00	0°♐	
desc. node	9886 Nov 17	22:22	23°♐46'48	
	9886 Nov 21	21:19	0°♑	
evening max el	9886 Dec 07	05:22	19°♑08'14	27°29'44
retrograde	9886 Dec 21	00:34	26°♑26'27	
evening set	9886 Dec 28	01:26	24°♑01'29	
min. Earth dist.	9886 Dec 31	18:38	20°♑58'44	0.62703 AU
inferior conj	9887 Jan 03	14:48	18°♑14'57	-2°23'18
minimum elong	9887 Jan 03	19:29	18°♑03'39	2°21'03
morning rise	9887 Jan 10	15:49	13°♑05'26	
asc. node	9887 Jan 10	21:57	13°♑00'24	
direct	9887 Jan 12	22:41	12°♑41'19	
morning max el	9887 Jan 19	15:16	16°♑06'47	17°47'22
	9887 Jan 29	10:28	0°♒	
morning set	9887 Feb 04	15:17	10°♒46'34	
desc. node	9887 Feb 13	21:56	26°♒51'48	
	9887 Feb 15	18:35	0°♓	
superior conj	9887 Feb 16	08:39	0°♓58'49	-0°18'13
minimum elong	9887 Feb 16	06:50	0°♓51'13	0°17'43
max. Earth dist.	9887 Feb 23	00:39	11°♓54'12	1.44005 AU
evening rise	9887 Mar 03	06:17	24°♓52'10	
	9887 Mar 06	14:34	0°♈	
	9887 Mar 27	11:25	0°♉	
evening max el	9887 Apr 02	11:29	7°♉00'03	21°10'03
asc. node	9887 Apr 08	20:17	11°♉38'59	
retrograde	9887 Apr 11	02:56	12°♉04'41	
evening set	9887 Apr 15	09:04	10°♉23'22	
inferior conj	9887 Apr 20	15:57	4°♉10'15	3°00'59
minimum elong	9887 Apr 20	14:18	4°♉16'00	3°00'31
min. Earth dist.	9887 Apr 21	00:30	3°♉40'34	0.68330 AU
	9887 Apr 23	19:40	30°℞♈	
morning rise	9887 Apr 25	19:18	27°♈55'16	
direct	9887 May 01	01:04	25°♈37'01	
	9887 May 09	13:46	0°♉	
morning max el	9887 May 11	12:03	1°♉50'35	23°22'09
desc. node	9887 May 12	22:23	3°♉20'16	
	9887 Jun 01	20:32	0°♊	
morning set	9887 Jun 15	10:02	21°♊34'24	
max. Earth dist.	9887 Jun 19	11:30	28°♊31'15	1.39304 AU
	9887 Jun 20	07:49	0°♋	
superior conj	9887 Jun 27	02:44	12°♋15'28	-1°16'51
minimum elong	9887 Jun 27	07:46	12°♋38'52	1°16'30
asc. node	9887 Jul 05	19:08	28°♋49'08	
	9887 Jul 06	09:48	0°♌	
evening rise	9887 Jul 06	12:32	0°♌13'15	
evening max el	9887 Jul 22	15:51	26°♌20'18	18°40'27
	9887 Jul 28	06:28	0°♍	
retrograde	9887 Jul 30	18:14	0°♍22'40	
evening set	9887 Aug 01	18:26	0°♍08'38	
	9887 Aug 02	07:46	30°℞♌	
desc. node	9887 Aug 08	21:26	26°♌21'09	
inferior conj	9887 Aug 09	17:17	25°♌44'20	-0°15'13
minimum elong	9887 Aug 09	16:40	25°♌45'29	0°15'14
transit middle	9887 Aug 09	16:40	25°♌45'29	0°15'14
transit begin	9887 Aug 09	15:28	25°♌47'43	

transit end	9887 Aug 09	17:52	25°♌43'14	
min. Earth dist.	9887 Aug 12	22:31	23°♌20'52	0.57245 AU
morning rise	9887 Aug 17	11:27	20°♌36'18	
direct	9887 Aug 23	05:45	19°♌14'18	
morning max el	9887 Sep 06	13:13	26°♌44'23	26°36'15
	9887 Sep 09	16:11	0°♍	
	9887 Sep 29	08:17	0°♎	
asc. node	9887 Oct 01	19:17	4°♎48'42	
morning set	9887 Oct 05	18:21	13°♎00'18	
superior conj	9887 Oct 12	15:43	28°♎06'47	1°29'35
minimum elong	9887 Oct 12	13:55	27°♎56'49	1°29'34
max. Earth dist.	9887 Oct 13	02:08	29°♎04'44	1.31658 AU
	9887 Oct 13	12:06	0°♏	
evening rise	9887 Oct 19	12:37	13°♏06'13	
	9887 Oct 28	02:13	0°♐	
desc. node	9887 Nov 04	19:30	13°♐00'00	
	9887 Nov 17	23:11	0°♑	
evening max el	9887 Nov 19	11:23	1°♑28'44	27°05'53
retrograde	9887 Dec 03	08:59	8°♑39'21	
evening set	9887 Dec 10	07:35	6°♑32'45	
min. Earth dist.	9887 Dec 14	02:00	3°♑50'41	0.60648 AU
inferior conj	9887 Dec 17	05:10	1°♑11'57	-3°37'07
minimum elong	9887 Dec 17	12:11	0°♑57'05	3°34'23
	9887 Dec 18	15:41	30°℞♐	
morning rise	9887 Dec 24	19:18	26°♐22'08	
direct	9887 Dec 26	23:10	26°♐03'34	
asc. node	9887 Dec 28	19:02	26°♐17'23	
morning max el	9888 Jan 03	05:54	29°♐42'06	17°59'41
	9888 Jan 03	13:04	0°♑	
morning set	9888 Jan 18	20:50	24°♑19'59	
	9888 Jan 21	22:36	0°♒	
superior conj	9888 Jan 28	23:47	12°♒42'29	0°21'05
minimum elong	9888 Jan 29	01:30	12°♒50'02	0°21'08
desc. node	9888 Jan 31	18:48	17°♒34'17	
max. Earth dist.	9888 Feb 05	13:52	25°♒40'36	1.42295 AU
	9888 Feb 08	05:00	0°♓	
evening rise	9888 Feb 11	06:50	4°♓57'01	
	9888 Feb 27	21:44	0°♈	
evening max el	9888 Mar 15	05:31	20°♈44'21	22°26'39
retrograde	9888 Mar 24	23:50	26°♈30'55	
asc. node	9888 Mar 25	17:28	26°♈28'15	
evening set	9888 Mar 29	16:56	24°♈34'26	
inferior conj	9888 Apr 04	00:52	18°♈12'10	2°36'10
minimum elong	9888 Apr 03	22:45	18°♈19'33	2°35'33
min. Earth dist.	9888 Apr 03	20:48	18°♈26'18	0.68588 AU
morning rise	9888 Apr 09	04:25	12°♈02'18	
direct	9888 Apr 13	20:30	10°♈04'51	
morning max el	9888 Apr 23	00:33	15°♈25'56	21°54'11
desc. node	9888 Apr 28	19:16	22°♈01'37	
	9888 May 04	19:45	0°♉	
	9888 May 24	20:48	0°♊	
morning set	9888 May 25	16:43	1°♊19'33	
max. Earth dist.	9888 May 31	11:35	10°♊46'41	1.41539 AU
superior conj	9888 Jun 08	04:15	23°♊56'51	-1°46'12
minimum elong	9888 Jun 08	10:30	24°♊24'24	1°45'57
	9888 Jun 11	13:54	0°♋	
evening rise	9888 Jun 18	21:08	13°♋21'40	
asc. node	9888 Jun 21	16:08	18°♋30'04	
	9888 Jun 28	06:12	0°♌	
evening max el	9888 Jul 05	00:17	9°♌00'23	18°12'43
retrograde	9888 Jul 12	01:53	12°♌34'42	
evening set	9888 Jul 14	09:21	12°♌12'24	
inferior conj	9888 Jul 21	12:58	7°♌27'14	1°13'58
minimum elong	9888 Jul 21	15:12	7°♌22'19	1°12'52
min. Earth dist.	9888 Jul 24	21:27	4°♌32'25	0.59370 AU
desc. node	9888 Jul 25	18:36	3°♌49'40	
morning rise	9888 Jul 28	17:54	1°♌46'41	
	9888 Aug 02	17:22	30°℞♋	
direct	9888 Aug 04	02:34	29°♋54'45	
	9888 Aug 05	12:08	0°♌	
morning max el	9888 Aug 18	11:15	7°♌44'20	27°35'27
	9888 Sep 04	07:46	0°♍	
asc. node	9888 Sep 17	16:09	24°♍34'30	
morning set	9888 Sep 19	01:25	27°♍27'31	
	9888 Sep 20	06:14	0°♎	
max. Earth dist.	9888 Sep 25	11:55	11°♎26'24	1.31517 AU
superior conj	9888 Sep 26	03:22	12°♎52'13	1°15'56
minimum elong	9888 Sep 26	01:10	12°♎39'57	1°15'40
evening rise	9888 Oct 02	21:01	27°♎40'45	
	9888 Oct 03	23:13	0°♏	
	9888 Oct 20	16:14	0°♐	
desc. node	9888 Oct 21	16:40	1°♐27'18	
evening max el	9888 Oct 31	09:54	12°♐58'35	26°08'09
retrograde	9888 Nov 14	07:45	20°♐02'11	
evening set	9888 Nov 20	18:17	18°♐23'05	
min. Earth dist.	9888 Nov 24	22:48	15°♐48'21	0.58549 AU
inferior conj	9888 Nov 28	02:00	13°♐30'29	-4°45'07
minimum elong	9888 Nov 28	09:42	13°♐16'19	4°42'56
morning rise	9888 Dec 06	03:33	9°♐03'11	
direct	9888 Dec 08	08:40	8°♐46'54	
asc. node	9888 Dec 14	16:06	11°♐08'27	
morning max el	9888 Dec 16	14:07	12°♐47'31	18°32'09
	9888 Dec 28	03:56	0°♑	
morning set	9889 Jan 01	14:41	8°♑26'32	
superior conj	9889 Jan 10	12:27	25°♑26'42	0°52'47
minimum elong	9889 Jan 10	15:33	25°♑41'06	0°52'44
	9889 Jan 12	23:55	0°♒	
desc. node	9889 Jan 17	15:41	8°♒16'52	
max. Earth dist.	9889 Jan 17	22:27	8°♒46'15	1.40217 AU
evening rise	9889 Jan 22	03:31	15°♒55'46	
	9889 Jan 30	22:22	0°♓	
	9889 Feb 21	16:22	0°♈	
evening max el	9889 Feb 25	20:10	4°♈30'33	23°46'59
retrograde	9889 Mar 08	17:50	10°♈56'04	
asc. node	9889 Mar 12	14:42	9°♈44'55	
evening set	9889 Mar 13	22:46	8°♈45'26	
min. Earth dist.	9889 Mar 18	17:22	3°♈12'15	0.68409 AU
inferior conj	9889 Mar 19	09:27	2°♈17'22	2°02'03
minimum elong	9889 Mar 19	07:17	2°♈24'48	2°01'23
	9889 Mar 21	02:35	30°℞♓	
morning rise	9889 Mar 24	15:49	26°♓13'52	
direct	9889 Mar 28	18:28	24°♓38'34	
morning max el	9889 Apr 05	19:23	29°♓12'49	20°34'55
	9889 Apr 06	13:54	0°♈	
desc. node	9889 Apr 15	16:08	11°♈21'50	
	9889 Apr 28	10:16	0°♉	
morning set	9889 May 04	23:24	10°♉01'44	
max. Earth dist.	9889 May 13	18:28	23°♉55'44	1.43456 AU
	9889 May 17	11:59	0°♊	
superior conj	9889 May 20	06:51	4°♊36'48	-2°06'53
minimum elong	9889 May 20	11:23	4°♊55'44	2°07'01
evening rise	9889 Jun 01	13:53	25°♊45'28	
	9889 Jun 03	23:48	0°♋	
asc. node	9889 Jun 08	13:11	7°♋53'24	
evening max el	9889 Jun 18	12:59	22°♋07'05	18°04'37
retrograde	9889 Jun 25	01:14	25°♋28'44	
evening set	9889 Jun 27	16:25	24°♋55'12	
inferior conj	9889 Jul 04	03:48	19°♋50'31	2°16'39

minimum elong	9889 Jul 04 06:39	19°♋43'20	2°15'30
min. Earth dist.	9889 Jul 07 05:01	16°♋47'20	0.61634 AU
morning rise	9889 Jul 10 18:36	13°♋47'41	
desc. node	9889 Jul 12 15:43	12°♋40'08	
direct	9889 Jul 17 10:51	11°♋28'29	
morning max el	9889 Jul 31 16:02	19°♋29'46	27°56'49
	9889 Aug 09 14:28	0°♌	
	9889 Aug 28 05:38	0°♍	
morning set	9889 Sep 03 03:25	11°♍37'36	
asc. node	9889 Sep 04 13:02	14°♍31'47	
max. Earth dist.	9889 Sep 08 19:18	23°♍38'31	1.31856 AU
superior conj	9889 Sep 10 13:29	27°♍29'31	0°57'10
minimum elong	9889 Sep 10 11:20	27°♍17'43	0°56'45
	9889 Sep 11 16:48	0°♎	
evening rise	9889 Sep 17 07:56	12°♎19'52	
	9889 Sep 26 03:54	0°♏	
desc. node	9889 Oct 08 13:52	18°♏50'53	
evening max el	9889 Oct 13 00:18	23°♏38'49	24°42'39
	9889 Oct 22 22:09	0°♐	
retrograde	9889 Oct 26 19:30	0°♐34'52	
	9889 Oct 30 17:37	30°℞♏	
evening set	9889 Nov 01 05:14	29°♏29'34	
min. Earth dist.	9889 Nov 06 11:34	26°♏43'32	0.56642 AU
inferior conj	9889 Nov 09 02:42	25°♏02'30	-5°32'38
minimum elong	9889 Nov 09 07:11	24°♏55'19	5°31'52
morning rise	9889 Nov 17 11:22	20°♏57'31	
direct	9889 Nov 19 23:15	20°♏40'21	
morning max el	9889 Nov 29 12:14	25°♏12'53	19°26'30
asc. node	9889 Dec 01 13:07	27°♏21'33	
	9889 Dec 03 16:01	0°♐	
morning set	9889 Dec 16 16:52	22°♐54'58	
	9889 Dec 20 05:25	0°♑	
superior conj	9889 Dec 24 17:41	8°♑57'36	1°16'02
minimum elong	9889 Dec 24 20:39	9°♑12'05	1°16'06
max. Earth dist.	9889 Dec 31 04:16	21°♑10'02	1.38019 AU
evening rise	9890 Jan 03 21:43	27°♑51'07	
desc. node	9890 Jan 04 12:38	28°♑56'21	
	9890 Jan 05 03:17	0°♒	
	9890 Jan 24 09:04	0°♓	
evening max el	9890 Feb 08 09:26	18°♓19'02	25°04'30
retrograde	9890 Feb 20 07:52	25°♓14'53	
evening set	9890 Feb 26 01:02	22°♓52'20	
asc. node	9890 Feb 27 11:54	21°♓29'34	
min. Earth dist.	9890 Mar 02 12:04	17°♓53'50	0.67818 AU
inferior conj	9890 Mar 03 15:51	16°♓22'50	1°18'55
minimum elong	9890 Mar 03 14:07	16°♓28'30	1°18'25
morning rise	9890 Mar 09 03:32	10°♓26'59	
direct	9890 Mar 12 17:44	9°♓12'52	
morning max el	9890 Mar 19 22:01	13°♓11'16	19°28'56
greatest brilliancy	9890 Apr 01 15:05	29°♓49'26	-0.7m
	9890 Apr 01 17:57	0°♈	
desc. node	9890 Apr 02 12:58	1°♈10'28	
morning set	9890 Apr 13 22:08	18°♈28'36	
	9890 Apr 21 08:31	0°♉	
max. Earth dist.	9890 Apr 26 07:31	7°♉47'01	1.44837 AU
superior conj	9890 Apr 30 09:11	14°♉14'58	-2°12'24
minimum elong	9890 Apr 30 07:42	14°♉09'01	2°12'39
	9890 May 10 01:38	0°♊	
evening rise	9890 May 14 09:57	7°♊13'52	
asc. node	9890 May 26 10:15	26°♊52'31	
	9890 May 28 13:39	0°♋	
evening max el	9890 Jun 02 02:36	5°♋31'33	18°15'19
retrograde	9890 Jun 08 11:37	8°♋54'44	
evening set	9890 Jun 11 10:30	8°♋07'51	
inferior conj	9890 Jun 17 09:39	2°♋45'25	2°55'30
minimum elong	9890 Jun 17 11:48	2°♋39'19	2°54'44
	9890 Jun 19 20:24	30°℞♊	
min. Earth dist.	9890 Jun 19 21:57	29°♊55'46	0.63774 AU
morning rise	9890 Jun 23 11:42	26°♊30'35	
desc. node	9890 Jun 29 12:49	23°♊54'05	
direct	9890 Jun 30 04:36	23°♊52'39	
	9890 Jul 12 01:03	0°♋	
morning max el	9890 Jul 14 01:01	1°♋55'12	27°40'27
	9890 Aug 03 20:35	0°♌	
morning set	9890 Aug 17 21:53	25°♌23'18	
	9890 Aug 20 04:44	0°♍	
asc. node	9890 Aug 22 09:53	4°♍35'16	
max. Earth dist.	9890 Aug 22 20:16	5°♍29'47	1.32695 AU
superior conj	9890 Aug 25 20:03	11°♍52'18	0°33'38
minimum elong	9890 Aug 25 18:31	11°♍44'03	0°33'11
evening rise	9890 Sep 01 19:26	26°♍57'23	
	9890 Sep 03 05:55	0°♎	
	9890 Sep 20 22:33	0°♏	
evening max el	9890 Sep 24 11:04	3°♏49'23	23°03'11
desc. node	9890 Sep 25 11:05	4°♏45'43	
retrograde	9890 Oct 07 18:41	10°♏27'49	
evening set	9890 Oct 11 17:17	9°♏53'56	
min. Earth dist.	9890 Oct 18 20:08	6°♏38'15	0.55243 AU
inferior conj	9890 Oct 20 07:57	5°♏46'30	-5°39'14
minimum elong	9890 Oct 20 04:53	5°♏50'56	5°38'50
morning rise	9890 Oct 28 18:21	1°♏56'37	
direct	9890 Oct 31 19:03	1°♏34'58	
morning max el	9890 Nov 11 21:13	6°♏48'27	20°43'30
asc. node	9890 Nov 18 10:06	14°♏39'55	
	9890 Nov 27 06:10	0°♐	
morning set	9890 Dec 01 00:22	7°♐35'51	
superior conj	9890 Dec 08 10:54	23°♐01'15	1°31'10
minimum elong	9890 Dec 08 12:55	23°♐11'36	1°31'24
	9890 Dec 11 22:07	0°♑	
max. Earth dist.	9890 Dec 13 12:16	3°♑07'04	1.35943 AU
evening rise	9890 Dec 17 10:46	10°♑35'19	
desc. node	9890 Dec 22 09:37	19°♑28'02	
	9890 Dec 28 17:17	0°♒	
	9891 Jan 19 20:47	0°♓	
evening max el	9891 Jan 21 22:48	2°♓06'49	26°12'11
retrograde	9891 Feb 03 16:55	9°♓21'06	
evening set	9891 Feb 09 21:59	6°♓50'09	
min. Earth dist.	9891 Feb 14 02:38	2°♓26'10	0.66833 AU
asc. node	9891 Feb 14 09:04	2°♓06'33	
inferior conj	9891 Feb 15 18:05	0°♓24'41	0°26'59
minimum elong	9891 Feb 15 17:23	0°♓26'51	0°26'55
	9891 Feb 16 02:06	30°℞♒	
morning rise	9891 Feb 21 13:31	24°♒38'19	
direct	9891 Feb 24 16:38	23°♒42'44	
morning max el	9891 Mar 03 07:51	27°♒17'43	18°38'43
	9891 Mar 05 19:06	0°♓	
desc. node	9891 Mar 20 09:47	21°♓20'01	
morning set	9891 Mar 24 12:44	27°♓48'13	
	9891 Mar 25 22:18	0°♈	
max. Earth dist.	9891 Apr 09 01:16	22°♈07'10	1.45544 AU
superior conj	9891 Apr 09 18:01	23°♈12'42	-1°58'00
minimum elong	9891 Apr 09 09:49	22°♈40'36	1°57'34
	9891 Apr 14 01:54	0°♉	
evening rise	9891 Apr 25 06:13	17°♉42'48	
	9891 May 02 23:00	0°♊	
greatest brilliancy	9891 May 03 02:26	0°♊13'34	-0.9m
asc. node	9891 May 13 07:21	15°♊19'23	
evening max el	9891 May 16 14:17	19°♊06'45	18°43'59

retrograde	9891 May 23 05:02	22°♊44'35	
evening set	9891 May 26 11:49	21°♊42'58	
inferior conj	9891 Jun 01 02:30	16°♊04'15	3°15'02
minimum elong	9891 Jun 01 03:29	16°♊01'14	3°14'35
min. Earth dist.	9891 Jun 02 23:47	13°♊44'43	0.65603 AU
morning rise	9891 Jun 06 18:26	9°♊44'47	
direct	9891 Jun 13 05:57	6°♊59'46	
desc. node	9891 Jun 16 09:51	7°♊33'32	
morning max el	9891 Jun 26 11:32	14°♊50'08	26°52'00
	9891 Jul 08 20:34	0°♋	
	9891 Jul 27 14:34	0°♌	
morning set	9891 Aug 01 05:56	8°♌36'59	
max. Earth dist.	9891 Aug 05 11:41	16°♌55'29	1.34040 AU
asc. node	9891 Aug 09 06:46	24°♌41'13	
superior conj	9891 Aug 09 20:54	25°♌54'53	0°05'51
minimum elong	9891 Aug 09 20:36	25°♌53'19	0°05'33
behind sun begin	9891 Aug 09 15:12	25°♌25'09	
behind sun end	9891 Aug 10 02:00	26°♌21'32	
	9891 Aug 11 19:33	0°♍	
evening rise	9891 Aug 17 05:37	11°♍28'16	
	9891 Aug 26 18:42	0°♎	
evening max el	9891 Sep 06 03:13	14°♎06'29	21°26'46
desc. node	9891 Sep 12 08:16	18°♎42'15	
retrograde	9891 Sep 18 07:37	20°♎09'11	
evening set	9891 Sep 20 22:05	19°♎53'40	
inferior conj	9891 Sep 30 01:12	15°♎57'10	-4°49'38
minimum elong	9891 Sep 29 15:54	16°♎10'10	4°47'27
min. Earth dist.	9891 Sep 30 03:51	15°♎53'27	0.54645 AU
morning rise	9891 Oct 08 10:34	12°♎06'57	
direct	9891 Oct 12 04:09	11°♎36'46	
morning max el	9891 Oct 24 17:15	17°♎34'50	22°20'11
	9891 Nov 03 13:25	0°♏	
asc. node	9891 Nov 05 07:00	2°♏49'09	
morning set	9891 Nov 15 10:55	22°♏23'04	
	9891 Nov 19 00:42	0°♐	
superior conj	9891 Nov 22 12:30	7°♐27'22	1°38'54
minimum elong	9891 Nov 22 13:18	7°♐31'37	1°39'14
max. Earth dist.	9891 Nov 26 03:13	15°♐00'16	1.34181 AU
evening rise	9891 Nov 30 14:58	23°♐58'45	
	9891 Dec 03 19:02	0°♑	
desc. node	9891 Dec 09 06:38	9°♑47'06	
	9891 Dec 22 07:29	0°♒	
evening max el	9892 Jan 04 12:17	15°♒45'41	27°02'30
retrograde	9892 Jan 17 20:01	23°♒07'00	
evening set	9892 Jan 24 11:38	20°♒32'39	
min. Earth dist.	9892 Jan 28 10:46	16°♒42'34	0.65482 AU
inferior conj	9892 Jan 30 13:54	14°♒17'27	-0°33'30
minimum elong	9892 Jan 30 14:52	14°♒14'43	0°32'47
asc. node	9892 Feb 01 06:13	12°♒25'38	
morning rise	9892 Feb 05 19:25	8°♒43'04	
direct	9892 Feb 08 13:08	8°♒02'35	
morning max el	9892 Feb 14 22:52	11°♒25'39	18°05'12
	9892 Feb 28 01:38	0°♓	
morning set	9892 Mar 04 07:57	8°♓34'19	
desc. node	9892 Mar 06 06:35	11°♓44'17	
	9892 Mar 17 15:41	0°♈	
superior conj	9892 Mar 19 01:39	2°♈14'05	-1°25'18
minimum elong	9892 Mar 18 16:37	1°♈38'26	1°24'16
max. Earth dist.	9892 Mar 21 21:15	6°♈39'47	1.45511 AU
evening rise	9892 Apr 04 05:00	27°♈22'56	
	9892 Apr 05 21:37	0°♉	
greatest brilliancy	9892 Apr 17 02:35	17°♉08'01	-0.7m
	9892 Apr 26 09:49	0°♊	
evening max el	9892 Apr 28 21:47	2°♊46'27	19°29'26
asc. node	9892 Apr 29 04:29	3°♊03'09	
retrograde	9892 May 06 02:18	6°♊50'59	
evening set	9892 May 09 17:30	5°♊33'55	
	9892 May 14 21:03	30°℞♉	
inferior conj	9892 May 15 03:02	29°♉40'16	3°19'11
minimum elong	9892 May 15 02:49	29°♉41'00	3°18'51
min. Earth dist.	9892 May 16 09:15	28°♉00'48	0.67021 AU
morning rise	9892 May 20 11:46	23°♉20'40	
direct	9892 May 26 13:32	20°♉39'44	
desc. node	9892 Jun 02 06:52	23°♉11'32	
morning max el	9892 Jun 07 21:40	28°♉02'55	25°39'54
	9892 Jun 09 18:06	0°♊	
	9892 Jul 01 13:56	0°♋	
morning set	9892 Jul 13 23:39	21°♋07'55	
max. Earth dist.	9892 Jul 17 16:44	28°♋02'22	1.35847 AU
	9892 Jul 18 17:23	0°♌	
superior conj	9892 Jul 23 13:18	9°♌29'29	-0°25'19
minimum elong	9892 Jul 23 14:51	9°♌37'14	0°25'21
asc. node	9892 Jul 26 03:39	14°♌45'21	
evening rise	9892 Jul 31 12:22	25°♌46'05	
	9892 Aug 02 14:26	0°♍	
evening max el	9892 Aug 18 07:35	24°♍59'16	20°05'50
	9892 Aug 26 15:51	0°♎	
retrograde	9892 Aug 28 20:59	0°♎13'24	
desc. node	9892 Aug 29 05:28	0°♎13'04	
evening set	9892 Aug 30 19:18	0°♎03'41	
	9892 Aug 31 03:30	30°℞♍	
inferior conj	9892 Sep 08 20:10	26°♍04'34	-3°12'02
minimum elong	9892 Sep 08 11:43	26°♍17'10	3°09'10
min. Earth dist.	9892 Sep 10 13:17	25°♍03'14	0.54984 AU
morning rise	9892 Sep 17 03:00	21°♍53'30	
direct	9892 Sep 21 15:02	21°♍09'36	
morning max el	9892 Oct 05 05:42	27°♍49'33	24°07'01
	9892 Oct 07 09:37	0°♎	
asc. node	9892 Oct 22 03:54	21°♎37'13	
	9892 Oct 26 11:46	0°♏	
morning set	9892 Oct 29 22:41	7°♏11'37	
superior conj	9892 Nov 05 19:41	22°♏08'05	1°39'59
minimum elong	9892 Nov 05 19:18	22°♏05'56	1°40'16
max. Earth dist.	9892 Nov 08 02:25	27°♏03'52	1.32833 AU
	9892 Nov 09 11:28	0°♐	
evening rise	9892 Nov 13 06:42	7°♐52'25	
desc. node	9892 Nov 25 03:40	29°♐47'40	
	9892 Nov 25 06:38	0°♑	
evening max el	9892 Dec 17 00:36	29°♑04'16	27°28'20
	9892 Dec 18 00:38	0°♒	
retrograde	9892 Dec 30 16:31	6°♒24'47	
evening set	9893 Jan 06 15:38	3°♒53'45	
min. Earth dist.	9893 Jan 10 10:18	0°♒35'25	0.63799 AU
	9893 Jan 11 00:23	30°℞♑	
inferior conj	9893 Jan 13 00:47	27°♑55'15	-1°41'32
minimum elong	9893 Jan 13 04:00	27°♑46'57	1°39'50
asc. node	9893 Jan 18 03:20	23°♑25'57	
morning rise	9893 Jan 19 18:18	22°♑35'52	
direct	9893 Jan 22 04:33	22°♑06'46	
morning max el	9893 Jan 28 16:20	25°♑28'22	17°48'52
	9893 Feb 01 11:50	0°♒	
morning set	9893 Feb 14 06:45	20°♒41'01	
	9893 Feb 19 18:19	0°♓	
desc. node	9893 Feb 21 03:25	2°♓18'57	
superior conj	9893 Feb 27 01:51	12°♓06'39	-0°43'02
minimum elong	9893 Feb 26 21:10	11°♓47'37	0°42'13
max. Earth dist.	9893 Mar 04 16:30	21°♓07'32	1.44744 AU
	9893 Mar 10 08:07	0°♈	

evening rise	9893 Mar 14 16:49	6°♈44'16	
	9893 Mar 30 05:55	0°♉	
evening max el	9893 Apr 11 23:52	16°♉27'56	20°29'42
asc. node	9893 Apr 16 01:38	19°♉51'12	
retrograde	9893 Apr 20 01:00	21°♉08'56	
evening set	9893 Apr 24 01:26	19°♉36'18	
inferior conj	9893 Apr 29 08:35	13°♉29'27	3°10'48
minimum elong	9893 Apr 29 07:22	13°♉33'38	3°10'24
min. Earth dist.	9893 Apr 30 00:40	12°♉34'17	0.67984 AU
morning rise	9893 May 04 13:05	7°♉12'15	
direct	9893 May 10 02:26	4°♉44'09	
desc. node	9893 May 20 03:50	10°♉18'58	
morning max el	9893 May 21 07:11	11°♉26'13	24°13'57
	9893 Jun 05 02:57	0°♊	
	9893 Jun 24 08:05	0°♋	
morning set	9893 Jun 25 22:17	2°♋44'04	
max. Earth dist.	9893 Jun 29 14:43	9°♋13'43	1.37997 AU
superior conj	9893 Jul 06 17:55	22°♋27'51	-0°58'11
minimum elong	9893 Jul 06 21:43	22°♋46'01	0°57'55
	9893 Jul 10 15:04	0°♌	
asc. node	9893 Jul 13 00:35	4°♌43'52	
evening rise	9893 Jul 15 13:10	9°♌43'56	
	9893 Jul 26 18:17	0°♍	
evening max el	9893 Aug 01 01:18	6°♍38'08	19°05'28
retrograde	9893 Aug 09 23:17	11°♍04'05	
evening set	9893 Aug 11 20:17	10°♍53'06	
desc. node	9893 Aug 16 02:41	9°♍16'20	
inferior conj	9893 Aug 20 06:14	6°♍39'43	-1°17'08
minimum elong	9893 Aug 20 02:52	6°♍45'28	1°16'00
min. Earth dist.	9893 Aug 23 02:43	4°♍43'04	0.56213 AU
morning rise	9893 Aug 28 06:24	1°♍52'55	
direct	9893 Sep 02 13:49	0°♍47'12	
morning max el	9893 Sep 16 18:22	8°♍02'11	25°47'52
	9893 Oct 03 02:06	0°♎	
asc. node	9893 Oct 09 00:47	10°♎53'43	
morning set	9893 Oct 14 09:56	21°♎55'53	
	9893 Oct 18 02:59	0°♏	
superior conj	9893 Oct 21 06:08	6°♏55'37	1°35'00
minimum elong	9893 Oct 21 04:46	6°♏48'01	1°35'08
max. Earth dist.	9893 Oct 22 08:08	9°♏19'08	1.31945 AU
evening rise	9893 Oct 28 06:52	22°♏07'25	
	9893 Nov 01 04:12	0°♐	
desc. node	9893 Nov 12 00:46	19°♐21'14	
	9893 Nov 19 05:27	0°♑	
evening max el	9893 Nov 29 09:25	11°♑48'34	27°23'45
retrograde	9893 Dec 13 05:47	19°♑04'02	
evening set	9893 Dec 20 06:52	16°♑45'17	
min. Earth dist.	9893 Dec 23 23:40	13°♑52'59	0.61846 AU
inferior conj	9893 Dec 26 23:35	11°♑09'18	-2°54'40
minimum elong	9893 Dec 27 05:21	10°♑56'08	2°52'08
morning rise	9894 Jan 03 06:17	6°♑08'08	
direct	9894 Jan 05 11:27	5°♑46'48	
asc. node	9894 Jan 05 00:27	5°♑47'44	
morning max el	9894 Jan 12 09:01	9°♑16'29	17°50'21
	9894 Jan 26 00:03	0°♒	
morning set	9894 Jan 28 02:49	3°♒47'34	
superior conj	9894 Feb 08 02:46	23°♒10'07	-0°00'48
minimum elong	9894 Feb 08 02:42	23°♒09'52	0°00'31
behind sun begin	9894 Feb 07 18:07	22°♒33'09	
behind sun end	9894 Feb 08 11:18	23°♒46'30	
desc. node	9894 Feb 08 00:15	22°♒59'20	
	9894 Feb 12 04:09	0°♓	
max. Earth dist.	9894 Feb 15 07:58	5°♓11'24	1.43331 AU
evening rise	9894 Feb 22 08:44	16°♓23'21	
	9894 Mar 03 06:56	0°♈	
	9894 Mar 25 16:23	0°♉	
evening max el	9894 Mar 25 20:23	0°♉10'11	21°41'46
asc. node	9894 Apr 02 22:49	5°♉28'09	
retrograde	9894 Apr 03 23:10	5°♉33'16	
evening set	9894 Apr 08 09:48	3°♉45'21	
	9894 Apr 11 20:17	30°℞♈	
inferior conj	9894 Apr 13 16:52	27°♈27'42	2°51'40
minimum elong	9894 Apr 13 14:58	27°♈34'20	2°51'07
min. Earth dist.	9894 Apr 13 19:55	27°♈17'05	0.68489 AU
morning rise	9894 Apr 18 19:58	21°♈14'37	
direct	9894 Apr 23 19:49	19°♈05'03	
morning max el	9894 May 03 17:43	24°♈56'49	22°44'07
desc. node	9894 May 07 00:45	28°♈31'24	
	9894 May 08 06:48	0°♉	
	9894 May 29 13:57	0°♊	
morning set	9894 Jun 06 20:37	13°♊12'41	
max. Earth dist.	9894 Jun 11 11:49	20°♊58'17	1.40271 AU
	9894 Jun 16 16:13	0°♋	
superior conj	9894 Jun 19 06:41	4°♋40'40	-1°29'59
minimum elong	9894 Jun 19 12:28	5°♋06'53	1°29'37
evening rise	9894 Jun 29 04:51	23°♋13'42	
asc. node	9894 Jun 29 21:34	24°♋32'56	
	9894 Jul 02 19:12	0°♌	
evening max el	9894 Jul 15 05:35	18°♌59'28	18°26'12
retrograde	9894 Jul 22 20:14	22°♌48'12	
evening set	9894 Jul 24 23:11	22°♌31'14	
inferior conj	9894 Aug 01 13:40	17°♌58'18	0°25'47
minimum elong	9894 Aug 01 14:35	17°♌56'28	0°25'08
desc. node	9894 Aug 02 23:54	16°♌49'19	
min. Earth dist.	9894 Aug 04 22:00	15°♌18'34	0.58105 AU
morning rise	9894 Aug 09 02:27	12°♌35'00	
direct	9894 Aug 15 03:30	11°♌00'12	
morning max el	9894 Aug 29 12:28	18°♌40'35	27°05'45
	9894 Sep 08 01:25	0°♍	
asc. node	9894 Sep 25 21:39	0°♎31'03	
	9894 Sep 25 15:31	0°♎	
morning set	9894 Sep 28 19:03	6°♎31'18	
superior conj	9894 Oct 05 17:56	21°♎44'11	1°24'26
minimum elong	9894 Oct 05 15:55	21°♎32'57	1°24'19
max. Earth dist.	9894 Oct 05 17:19	21°♎40'47	1.31535 AU
	9894 Oct 09 11:29	0°♏	
evening rise	9894 Oct 12 12:56	6°♏37'08	
	9894 Oct 24 17:11	0°♐	
desc. node	9894 Oct 29 21:56	8°♐17'06	
evening max el	9894 Nov 11 12:20	23°♐47'54	26°45'16
	9894 Nov 20 15:14	0°♑	
retrograde	9894 Nov 25 10:39	0°♑56'21	
	9894 Nov 30 03:28	30°℞♐	
evening set	9894 Dec 02 05:23	29°♐00'15	
min. Earth dist.	9894 Dec 06 02:31	26°♐23'12	0.59746 AU
inferior conj	9894 Dec 09 06:54	23°♐51'02	-4°07'24
minimum elong	9894 Dec 09 14:32	23°♐35'47	4°04'45
morning rise	9894 Dec 17 02:18	19°♐10'47	
direct	9894 Dec 19 05:53	18°♐53'43	
asc. node	9894 Dec 22 21:31	19°♐45'31	
morning max el	9894 Dec 26 21:26	22°♐40'42	18°10'55
	9895 Jan 01 15:09	0°♑	
morning set	9895 Jan 11 14:07	17°♑36'18	
	9895 Jan 18 05:09	0°♒	
superior conj	9895 Jan 21 03:36	5°♒20'54	0°35'32
minimum elong	9895 Jan 21 06:08	5°♒32'21	0°35'31
desc. node	9895 Jan 25 21:06	13°♒42'11	
max. Earth dist.	9895 Jan 28 18:27	18°♒38'34	1.41439 AU

evening rise	9895 Feb 02 17:15	26°♒49'42	
	9895 Feb 04 16:35	0°♓	
	9895 Feb 25 00:07	0°♈	
evening max el	9895 Mar 08 12:41	13°♈54'49	23°00'50
retrograde	9895 Mar 18 19:03	19°♈59'15	
asc. node	9895 Mar 20 20:03	19°♈38'56	
evening set	9895 Mar 23 16:59	17°♈56'46	
min. Earth dist.	9895 Mar 28 16:43	12°♈03'14	0.68556 AU
inferior conj	9895 Mar 29 01:53	11°♈31'29	2°22'50
minimum elong	9895 Mar 28 23:41	11°♈39'06	2°22'11
morning rise	9895 Apr 03 06:17	5°♈23'54	
direct	9895 Apr 07 16:33	3°♈35'46	
morning max el	9895 Apr 16 08:29	8°♈36'20	21°19'02
desc. node	9895 Apr 23 21:37	17°♈30'43	
	9895 May 02 20:44	0°♉	
morning set	9895 May 17 16:05	22°♉27'52	
	9895 May 22 09:17	0°♊	
max. Earth dist.	9895 May 24 14:01	3°♊34'47	1.42401 AU
superior conj	9895 May 31 22:56	15°♊57'07	-1°56'24
minimum elong	9895 Jun 01 04:57	16°♊23'00	1°56'18
	9895 Jun 08 22:31	0°♋	
evening rise	9895 Jun 12 07:18	6°♋04'31	
asc. node	9895 Jun 16 18:35	14°♋07'16	
	9895 Jun 26 22:56	0°♌	
evening max el	9895 Jun 28 16:23	1°♌52'46	18°06'59
retrograde	9895 Jul 05 10:53	5°♌19'34	
evening set	9895 Jul 07 21:42	4°♌52'48	
inferior conj	9895 Jul 14 17:59	29°♋59'27	1°43'41
minimum elong	9895 Jul 14 20:42	29°♋53'07	1°42'27
	9895 Jul 14 17:45	30°℞♋	
min. Earth dist.	9895 Jul 18 00:31	26°♋58'02	0.60335 AU
desc. node	9895 Jul 20 21:04	24°♋41'07	
morning rise	9895 Jul 21 16:52	24°♋08'16	
direct	9895 Jul 28 05:52	22°♋03'38	
morning max el	9895 Aug 11 13:22	29°♋59'24	27°49'10
	9895 Aug 11 13:36	0°♌	
	9895 Sep 02 02:50	0°♍	
asc. node	9895 Sep 12 18:31	20°♍22'22	
morning set	9895 Sep 13 00:12	20°♍51'55	
	9895 Sep 17 06:50	0°♎	
max. Earth dist.	9895 Sep 19 02:24	3°♎59'01	1.31603 AU
superior conj	9895 Sep 20 05:11	6°♎27'09	1°08'35
minimum elong	9895 Sep 20 02:56	6°♎14'43	1°08'15
evening rise	9895 Sep 26 22:38	21°♎14'32	
	9895 Oct 01 03:30	0°♏	
desc. node	9895 Oct 16 19:07	26°♏19'57	
	9895 Oct 19 16:54	0°♐	
evening max el	9895 Oct 24 07:25	4°♐56'18	25°34'34
retrograde	9895 Nov 07 05:02	11°♐56'50	
evening set	9895 Nov 13 06:21	10°♐32'08	
min. Earth dist.	9895 Nov 17 19:47	7°♐54'40	0.57696 AU
inferior conj	9895 Nov 20 19:22	5°♐50'53	-5°08'58
minimum elong	9895 Nov 21 02:18	5°♐38'51	5°07'20
morning rise	9895 Nov 29 00:34	1°♐33'01	
direct	9895 Dec 01 07:44	1°♐16'47	
asc. node	9895 Dec 09 18:33	5°♐13'11	
morning max el	9895 Dec 10 01:46	5°♐30'17	18°52'26
	9895 Dec 25 12:44	0°♑	
morning set	9895 Dec 26 11:57	1°♑53'37	

evening rise	9896 Jan 14 23:17	8°♒13'37	
	9896 Jan 28 15:26	0°♓	
evening max el	9896 Feb 19 02:43	27°♓43'15	24°20'51
	9896 Feb 21 13:39	0°♈	
retrograde	9896 Mar 01 11:25	4°♈22'31	
evening set	9896 Mar 06 21:28	2°♈06'45	
asc. node	9896 Mar 06 17:15	2°♈15'36	
	9896 Mar 08 23:55	30°℞♓	
min. Earth dist.	9896 Mar 11 12:47	26°♓48'13	0.68205 AU
inferior conj	9896 Mar 12 09:46	25°♓37'41	1°44'52
minimum elong	9896 Mar 12 07:43	25°♓44'35	1°44'14
morning rise	9896 Mar 17 18:04	19°♓37'07	
direct	9896 Mar 21 15:23	18°♓10'48	
morning max el	9896 Mar 29 06:27	22°♓28'09	20°05'03
	9896 Apr 04 15:39	0°♈	
desc. node	9896 Apr 09 18:26	7°♈04'20	
	9896 Apr 25 02:11	0°♉	
morning set	9896 Apr 25 16:34	0°♉55'24	
max. Earth dist.	9896 May 05 23:54	17°♉04'35	1.44121 AU
superior conj	9896 May 11 15:07	26°♉10'37	-2°11'27
minimum elong	9896 May 11 17:34	26°♉20'41	2°11'43
	9896 May 13 22:55	0°♊	
evening rise	9896 May 24 15:48	18°♊05'58	
	9896 May 31 14:50	0°♋	
asc. node	9896 Jun 02 15:40	3°♋21'25	
evening max el	9896 Jun 11 05:56	15°♋08'33	18°06'55
retrograde	9896 Jun 17 15:26	18°♋28'49	
evening set	9896 Jun 20 10:01	17°♋49'39	
inferior conj	9896 Jun 26 15:41	12°♋37'07	2°35'44
minimum elong	9896 Jun 26 18:21	12°♋30'03	2°34'43
min. Earth dist.	9896 Jun 29 11:49	9°♋37'33	0.62579 AU
morning rise	9896 Jul 03 00:51	6°♋28'24	
desc. node	9896 Jul 06 18:11	4°♋29'08	
direct	9896 Jul 09 18:20	4°♋00'04	
morning max el	9896 Jul 23 20:04	12°♋02'17	27°54'11
	9896 Aug 07 01:42	0°♌	
	9896 Aug 24 12:41	0°♍	
morning set	9896 Aug 26 23:18	4°♍52'16	
asc. node	9896 Aug 29 15:23	10°♍22'46	
max. Earth dist.	9896 Sep 01 07:33	16°♍03'39	1.32159 AU
superior conj	9896 Sep 03 14:02	20°♍59'02	0°47'46
minimum elong	9896 Sep 03 12:04	20°♍48'21	0°47'18
	9896 Sep 07 16:46	0°♎	
evening rise	9896 Sep 10 10:02	5°♎53'55	
	9896 Sep 23 00:25	0°♏	
desc. node	9896 Oct 02 16:20	13°♏09'14	
evening max el	9896 Oct 04 19:32	15°♏20'46	24°00'57
retrograde	9896 Oct 18 10:56	22°♏10'14	
evening set	9896 Oct 23 06:39	21°♏19'20	
min. Earth dist.	9896 Oct 29 06:05	18°♏22'53	0.55972 AU
inferior conj	9896 Oct 31 11:21	17°♏01'57	-5°41'39
minimum elong	9896 Oct 31 12:59	16°♏59'28	5°41'19
morning rise	9896 Nov 08 21:18	13°♏04'38	
direct	9896 Nov 11 14:15	12°♏45'51	
morning max el	9896 Nov 21 18:23	17°♏34'39	19°56'32
asc. node	9896 Nov 25 15:32	21°♏55'52	
	9896 Dec 01 00:37	0°♐	
morning set	9896 Dec 09 16:43	16°♐28'39	
	9896 Dec 16 08:09	0°♑	

superior conj	9896 Jan 03 23:53	18°♑26'34	1°03'41
minimum elong	9896 Jan 04 03:04	18°♑41'42	1°03'39
	9896 Jan 10 06:10	0°♒	
max. Earth dist.	9896 Jan 11 01:25	1°♒25'44	1.39284 AU
desc. node	9896 Jan 12 18:01	4°♒24'08	

superior conj	9896 Dec 17 10:41	2°♑12'53	1°23'25
minimum elong	9896 Dec 17 13:19	2°♑25'58	1°23'32
max. Earth dist.	9896 Dec 23 08:00	13°♑37'49	1.37110 AU
evening rise	9896 Dec 27 01:55	20°♑30'54	
desc. node	9896 Dec 29 14:57	25°♑00'55	

	9897 Jan 01	12:48	0°♒	
	9897 Jan 21	15:44	0°♓	
evening max el	9897 Jan 31	16:00	11°♓32'29	25°34'58
retrograde	9897 Feb 12	23:11	18°♓36'54	
evening set	9897 Feb 18	21:38	16°♓10'15	
asc. node	9897 Feb 21	14:26	13°♓26'47	
min. Earth dist.	9897 Feb 23	05:52	11°♓26'41	0.67450 AU
inferior conj	9897 Feb 24	14:36	9°♓42'04	0°57'57
minimum elong	9897 Feb 24	13:14	9°♓46'26	0°57'36
morning rise	9897 Mar 02	05:18	3°♓50'09	
direct	9897 Mar 05	14:42	2°♓44'11	
morning max el	9897 Mar 12	12:19	6°♓30'40	19°05'38
greatest brilliancy	9897 Mar 25	20:05	24°♓19'04	-0.7m
desc. node	9897 Mar 27	15:13	27°♓02'34	
	9897 Mar 29	13:39	0°♈	
morning set	9897 Apr 04	19:27	9°♈37'44	
	9897 Apr 17	21:24	0°♉	
max. Earth dist.	9897 Apr 18	15:46	1°♉12'07	1.45229 AU
superior conj	9897 Apr 21	08:26	5°♉26'50	-2°08'50
minimum elong	9897 Apr 21	03:44	5°♉08'17	2°08'51
evening rise	9897 May 06	01:51	29°♉08'58	
	9897 May 06	14:19	0°♊	
asc. node	9897 May 20	12:45	22°♊07'55	
evening max el	9897 May 25	18:58	28°♊38'05	18°25'20
	9897 May 27	07:08	0°♋	
retrograde	9897 Jun 01	05:21	2°♋06'02	
evening set	9897 Jun 04	07:34	1°♋12'53	
	9897 Jun 06	00:51	30°℞♊	
inferior conj	9897 Jun 10	02:39	25°♊43'03	3°05'52
minimum elong	9897 Jun 10	04:20	25°♊38'05	3°05'16
min. Earth dist.	9897 Jun 12	08:32	23°♊04'53	0.64595 AU
morning rise	9897 Jun 16	00:03	19°♊25'31	
direct	9897 Jun 22	15:10	16°♊43'31	
desc. node	9897 Jun 23	15:14	16°♊46'53	
morning max el	9897 Jul 06	06:10	24°♊42'15	27°23'28
	9897 Jul 11	01:11	0°♋	
	9897 Jul 31	12:20	0°♌	
morning set	9897 Aug 10	13:47	18°♌25'56	
max. Earth dist.	9897 Aug 15	05:06	27°♌46'08	1.33208 AU
	9897 Aug 16	06:52	0°♍	
asc. node	9897 Aug 16	12:16	0°♍28'11	
superior conj	9897 Aug 18	18:28	5°♍14'23	0°22'21
minimum elong	9897 Aug 18	17:23	5°♍08'36	0°21'55
evening rise	9897 Aug 25	21:16	20°♍30'02	
	9897 Aug 30	11:54	0°♎	
evening max el	9897 Sep 16	07:20	25°♎29'43	22°20'51
desc. node	9897 Sep 19	13:33	28°♎18'25	
	9897 Sep 22	04:21	0°♏	
retrograde	9897 Sep 29	05:10	1°♏55'44	
evening set	9897 Oct 02	13:00	1°♏31'17	
	9897 Oct 06	17:27	30°℞♎	
min. Earth dist.	9897 Oct 10	13:40	27°♎58'31	0.54878 AU
inferior conj	9897 Oct 11	10:12	27°♎29'33	-5°25'16
minimum elong	9897 Oct 11	03:51	27°♎38'31	5°24'16
morning rise	9897 Oct 19	20:24	23°♎42'22	
direct	9897 Oct 23	03:56	23°♎17'44	
morning max el	9897 Nov 03	21:39	28°♎49'27	21°22'38
	9897 Nov 05	02:22	0°♏	
asc. node	9897 Nov 12	12:27	9°♏38'04	
	9897 Nov 23	11:34	0°♐	
morning set	9897 Nov 24	01:48	1°♐13'56	
superior conj	9897 Dec 01	07:55	16°♐28'16	1°35'18
minimum elong	9897 Dec 01	09:26	16°♐36'09	1°35'35
max. Earth dist.	9897 Dec 05	18:40	25°♐31'56	1.35147 AU
	9897 Dec 08	01:16	0°♑	
evening rise	9897 Dec 09	21:54	3°♑33'32	
desc. node	9897 Dec 16	11:57	15°♑28'25	
	9897 Dec 25	10:25	0°♒	
evening max el	9898 Jan 14	05:18	25°♒17'23	26°35'58
	9898 Jan 19	22:48	0°♓	
retrograde	9898 Jan 27	05:47	2°♓36'05	
evening set	9898 Feb 02	15:44	0°♓02'37	
	9898 Feb 02	17:02	30°℞♒	
min. Earth dist.	9898 Feb 06	17:50	25°♒53'30	0.66309 AU
asc. node	9898 Feb 08	11:34	23°♒49'11	
inferior conj	9898 Feb 08	14:23	23°♒40'46	0°02'19
minimum elong	9898 Feb 08	14:18	23°♒40'58	0°02'34
transit middle	9898 Feb 08	14:18	23°♒40'58	0°02'34
transit begin	9898 Feb 08	11:26	23°♒49'35	
transit end	9898 Feb 08	17:11	23°♒32'23	
morning rise	9898 Feb 14	13:53	17°♒59'29	
direct	9898 Feb 17	12:46	17°♒10'51	
morning max el	9898 Feb 24	00:44	20°♒39'15	18°22'23
	9898 Mar 03	09:23	0°♓	
desc. node	9898 Mar 14	12:01	17°♓19'00	
morning set	9898 Mar 15	21:32	19°♓32'34	
	9898 Mar 22	11:33	0°♈	
superior conj	9898 Mar 31	14:17	14°♈19'23	-1°45'57
minimum elong	9898 Mar 31	04:50	13°♈42'25	1°45'11
max. Earth dist.	9898 Apr 01	10:44	15°♈39'21	1.45621 AU
	9898 Apr 10	14:52	0°♉	
evening rise	9898 Apr 16	12:13	9°♉14'34	
greatest brilliancy	9898 Apr 26	16:42	25°♉11'22	-0.8m
	9898 Apr 29	20:39	0°♊	
asc. node	9898 May 07	09:51	10°♊17'43	
evening max el	9898 May 09	04:58	12°♊15'03	19°01'20
retrograde	9898 May 16	00:50	16°♊03'20	
evening set	9898 May 19	11:01	14°♊55'17	
inferior conj	9898 May 24	23:08	9°♊09'53	3°18'30
minimum elong	9898 May 24	23:35	9°♊08'26	3°18'07
min. Earth dist.	9898 May 26	13:55	7°♊06'26	0.66253 AU
morning rise	9898 May 30	11:36	2°♊49'39	
direct	9898 Jun 05	19:14	0°♊05'11	
desc. node	9898 Jun 10	12:14	1°♊20'03	
morning max el	9898 Jun 18	16:53	7°♊46'42	26°23'44
	9898 Jul 05	23:41	0°♋	
	9898 Jul 23	22:28	0°♌	
morning set	9898 Jul 24	16:16	1°♌23'04	
max. Earth dist.	9898 Jul 28	16:03	9°♌02'22	1.34748 AU
superior conj	9898 Aug 02	16:03	19°♌05'49	-0°07'03
minimum elong	9898 Aug 02	16:28	19°♌07'56	0°07'15
behind sun begin	9898 Aug 02	11:09	18°♌40'38	
behind sun end	9898 Aug 02	21:47	19°♌35'18	
asc. node	9898 Aug 03	09:08	20°♌33'52	
	9898 Aug 07	21:36	0°♍	
evening rise	9898 Aug 10	06:16	4°♍56'05	
	9898 Aug 24	03:27	0°♎	
evening max el	9898 Aug 29	04:05	5°♎59'24	20°50'05
desc. node	9898 Sep 06	10:46	11°♎15'56	
retrograde	9898 Sep 09	17:11	11°♎42'57	
evening set	9898 Sep 11	22:17	11°♎31'12	
inferior conj	9898 Sep 21	02:24	7°♎35'11	-4°12'41
minimum elong	9898 Sep 20	16:35	7°♎49'10	4°09'52
min. Earth dist.	9898 Sep 21	22:06	7°♎07'05	0.54665 AU
morning rise	9898 Sep 29	10:56	3°♎38'16	
direct	9898 Oct 03	11:53	3°♎03'16	
morning max el	9898 Oct 16	13:47	9°♎20'23	23°05'11
asc. node	9898 Oct 30	09:22	28°♎05'11	
	9898 Oct 31	11:08	0°♏	

morning set	9898 Nov 08	13:04	16°♏02'25	
	9898 Nov 15	00:42	0°♐	
superior conj	9898 Nov 15	12:14	1°♐01'56	1°40'07
minimum elong	9898 Nov 15	12:31	1°♐03'26	1°40'27
max. Earth dist.	9898 Nov 18	12:52	7°♐27'21	1.33551 AU
evening rise	9898 Nov 23	07:26	17°♐11'04	
	9898 Nov 30	02:50	0°♑	
desc. node	9898 Dec 03	09:01	5°♑40'36	
	9898 Dec 19	19:58	0°♒	
evening max el	9898 Dec 27	18:21	8°♒48'42	27°16'46
retrograde	9899 Jan 10	06:25	16°♒11'21	
evening set	9899 Jan 17	01:39	13°♒37'17	
min. Earth dist.	9899 Jan 20	22:36	10°♒01'06	0.64803 AU
inferior conj	9899 Jan 23	06:44	7°♒28'05	-1°01'31
minimum elong	9899 Jan 23	08:36	7°♒23'00	1°00'24
asc. node	9899 Jan 26	08:41	4°♒19'13	
morning rise	9899 Jan 29	17:11	1°♒59'49	
direct	9899 Feb 01	07:19	1°♒24'49	
morning max el	9899 Feb 07	17:12	4°♒46'20	17°56'05
	9899 Feb 24	15:53	0°♓	
morning set	9899 Feb 25	05:06	0°♓54'59	
desc. node	9899 Mar 01	08:51	7°♓48'20	
superior conj	9899 Mar 11	03:19	23°♓38'47	-1°07'55
minimum elong	9899 Mar 10	19:48	23°♓08'49	1°06'53
	9899 Mar 15	03:36	0°♈	
max. Earth dist.	9899 Mar 15	06:11	0°♈10'10	1.45268 AU
evening rise	9899 Mar 27	04:34	18°♈42'04	
	9899 Apr 03	14:03	0°♉	
greatest brilliancy	9899 Apr 10	17:27	10°♉40'46	-0.6m
evening max el	9899 Apr 22	10:14	25°♉55'57	19°53'28
asc. node	9899 Apr 24	06:59	27°♉39'48	
	9899 Apr 28	06:36	0°♊	
retrograde	9899 Apr 29	22:58	0°♊15'16	
	9899 May 01	14:08	30°℞♉	
evening set	9899 May 03	17:53	28°♉51'48	
inferior conj	9899 May 09	02:07	22°♉52'27	3°17'03
minimum elong	9899 May 09	01:26	22°♉54'44	3°16'42
min. Earth dist.	9899 May 10	02:16	21°♉31'14	0.67483 AU
morning rise	9899 May 14	08:40	16°♉33'25	
direct	9899 May 20	05:24	13°♉56'45	
desc. node	9899 May 28	09:13	17°♉39'30	
morning max el	9899 Jun 01	02:36	21°♉04'43	25°04'24
	9899 Jun 08	19:31	0°♊	
	9899 Jun 29	04:45	0°♋	
morning set	9899 Jul 07	02:31	13°♋32'42	
max. Earth dist.	9899 Jul 10	16:58	20°♋05'35	1.36723 AU
	9899 Jul 15	22:02	0°♌	
superior conj	9899 Jul 17	03:55	2°♌26'20	-0°39'11
minimum elong	9899 Jul 17	06:23	2°♌38'30	0°39'04
asc. node	9899 Jul 21	06:04	10°♌36'21	
evening rise	9899 Jul 25	10:49	19°♌06'13	
	9899 Jul 31	00:10	0°♍	
evening max el	9899 Aug 11	14:25	17°♍12'16	19°37'41
retrograde	9899 Aug 21	10:29	22°♍04'38	
evening set	9899 Aug 23	06:49	21°♍55'05	
desc. node	9899 Aug 24	07:59	21°♍41'34	
inferior conj	9899 Sep 01	02:29	17°♍51'27	-2°23'27
minimum elong	9899 Aug 31	20:02	18°♍01'36	2°21'08
min. Earth dist.	9899 Sep 03	09:16	16°♍25'33	0.55408 AU
morning rise	9899 Sep 09	07:04	13°♍26'05	
direct	9899 Sep 14	03:33	12°♍33'37	
morning max el	9899 Sep 28	01:19	19°♍30'05	24°51'33
	9899 Oct 06	22:12	0°♎	
asc. node	9899 Oct 17	06:16	17°♎06'24	
	9899 Oct 23	15:32	0°♏	
morning set	9899 Oct 24	00:49	0°♏49'30	
superior conj	9899 Oct 30	21:05	15°♏46'23	1°38'34
minimum elong	9899 Oct 30	20:14	15°♏41'46	1°38'49
max. Earth dist.	9899 Nov 01	15:01	19°♏35'27	1.32402 AU
	9899 Nov 06	12:33	0°♐	
evening rise	9899 Nov 07	03:07	1°♐14'59	
desc. node	9899 Nov 20	06:07	25°♐30'48	
	9899 Nov 23	01:20	0°♑	
evening max el	9899 Dec 10	05:37	21°♑54'49	27°30'25
retrograde	9899 Dec 24	00:08	29°♑13'34	
evening set	9899 Dec 31	00:39	26°♑46'54	
min. Earth dist.	9900 Jan 03	18:11	23°♑40'12	0.62993 AU
inferior conj	9900 Jan 06	12:54	20°♑57'04	-2°12'10
minimum elong	9900 Jan 06	17:13	20°♑46'30	2°10'04
morning rise	9900 Jan 13	11:57	15°♑44'46	
asc. node	9900 Jan 13	05:49	15°♑50'33	
direct	9900 Jan 15	19:37	15°♑19'27	
morning max el	9900 Jan 22	10:42	18°♑43'41	17°47'11
	9900 Jan 30	16:37	0°♒	
morning set	9900 Feb 07	13:48	13°♒29'53	
desc. node	9900 Feb 16	05:41	28°♒25'52	
	9900 Feb 17	04:01	0°♓	
superior conj	9900 Feb 19	13:37	4°♓00'30	-0°24'40
minimum elong	9900 Feb 19	11:05	3°♓49'59	0°24'04
max. Earth dist.	9900 Feb 25	23:55	14°♓29'08	1.44216 AU
evening rise	9900 Mar 06	16:16	28°♓06'47	
	9900 Mar 07	21:44	0°♈	
	9900 Mar 28	10:22	0°♉	
evening max el	9900 Apr 05	10:00	9°♉38'22	20°59'15
asc. node	9900 Apr 11	04:10	13°♉59'48	
retrograde	9900 Apr 13	21:32	14°♉36'31	
evening set	9900 Apr 18	02:11	12°♉57'25	
inferior conj	9900 Apr 23	09:05	6°♉45'56	3°03'54
minimum elong	9900 Apr 23	07:32	6°♉51'19	3°03'27
min. Earth dist.	9900 Apr 23	19:34	6°♉09'39	0.68259 AU
morning rise	9900 Apr 28	12:39	0°♉30'25	
	9900 Apr 29	03:01	30°℞♈	
direct	9900 May 03	20:27	28°♈09'25	
	9900 May 09	03:48	0°♉	
morning max el	9900 May 14	11:59	4°♉30'18	23°35'35
desc. node	9900 May 15	06:09	5°♉17'02	
	9900 Jun 03	01:54	0°♊	
morning set	9900 Jun 18	15:19	24°♊40'56	
	9900 Jun 21	17:38	0°♋	
max. Earth dist.	9900 Jun 22	13:33	1°♋26'58	1.38970 AU
superior conj	9900 Jun 30	02:19	15°♋06'33	-1°12'01
minimum elong	9900 Jun 30	07:03	15°♋28'42	1°11'40
	9900 Jul 07	20:36	0°♌	
asc. node	9900 Jul 08	03:02	0°♌31'19	
evening rise	9900 Jul 09	08:07	2°♌52'47	
evening max el	9900 Jul 25	13:06	29°♌09'52	18°46'14
	9900 Jul 26	10:27	0°♍	
retrograde	9900 Aug 02	20:10	3°♍17'53	
evening set	9900 Aug 04	19:26	3°♍04'44	
desc. node	9900 Aug 11	05:11	29°♌54'52	
	9900 Aug 11	02:12	30°℞♌	
inferior conj	9900 Aug 12	21:12	28°♌43'16	-0°30'49
minimum elong	9900 Aug 12	19:56	28°♌45'35	0°30'34
min. Earth dist.	9900 Aug 16	00:40	26°♌26'19	0.56960 AU
morning rise	9900 Aug 20	17:04	23°♌40'46	
direct	9900 Aug 26	08:41	22°♌23'13	
morning max el	9900 Sep 09	15:35	29°♌49'26	26°24'43
	9900 Sep 09	19:57	0°♍	

	9900 Sep 30 17:40	0°♎	
asc. node	9900 Oct 04 03:11	6°♎32'38	
morning set	9900 Oct 08 11:24	15°♎30'31	
superior conj	9900 Oct 15 08:20	0°♏34'58	1°31'11
minimum elong	9900 Oct 15 06:39	0°♏25'34	1°31'13
	9900 Oct 15 02:02	0°♏	
max. Earth dist.	9900 Oct 15 22:47	1°♏55'11	1.31713 AU
evening rise	9900 Oct 22 06:06	15°♏37'21	
	9900 Oct 29 11:29	0°♐	
desc. node	9900 Nov 07 03:14	14°♐50'10	
	9900 Nov 18 07:47	0°♑	
evening max el	9900 Nov 22 12:33	4°♑22'40	27°11'41
retrograde	9900 Dec 06 09:45	11°♑34'18	
evening set	9900 Dec 13 09:22	9°♑24'13	
min. Earth dist.	9900 Dec 17 03:08	6°♑39'59	0.60963 AU
inferior conj	9900 Dec 20 05:39	3°♑59'30	-3°26'02
minimum elong	9900 Dec 20 12:23	3°♑44'59	3°23'19
	9900 Dec 25 14:45	30°℞♐	
morning rise	9900 Dec 27 17:53	29°♐06'37	
direct	9900 Dec 29 22:00	28°♐47'24	
asc. node	9900 Dec 31 02:55	28°♐53'31	
	9901 Jan 03 01:14	0°♑	
morning max el	9901 Jan 06 02:01	2°♑23'12	17°56'37
morning set	9901 Jan 21 17:07	26°♑57'23	
	9901 Jan 23 08:58	0°♒	
superior conj	9901 Feb 01 01:12	15°♒34'26	0°15'32
minimum elong	9901 Feb 01 02:31	15°♒40'13	0°15'39
behind sun begin	9901 Feb 01 00:50	15°♒32'51	
behind sun end	9901 Feb 01 04:12	15°♒47'34	
desc. node	9901 Feb 03 02:33	19°♒08'11	
max. Earth dist.	9901 Feb 08 14:00	28°♒21'42	1.42581 AU
	9901 Feb 09 13:55	0°♓	
evening rise	9901 Feb 14 14:18	8°♓04'35	
	9901 Mar 01 02:03	0°♈	
evening max el	9901 Mar 19 04:39	23°♈22'11	22°14'48
retrograde	9901 Mar 28 18:49	29°♈02'38	
asc. node	9901 Mar 29 01:22	29°♈02'16	
evening set	9901 Apr 02 10:16	27°♈08'14	
inferior conj	9901 Apr 07 17:55	20°♈47'01	2°40'33
minimum elong	9901 Apr 07 15:50	20°♈54'16	2°39'57
min. Earth dist.	9901 Apr 07 15:38	20°♈54'59	0.68581 AU
morning rise	9901 Apr 12 21:16	14°♈36'23	
direct	9901 Apr 17 15:21	12°♈35'49	
morning max el	9901 Apr 26 23:56	18°♈04'35	22°06'52
desc. node	9901 May 02 03:02	23°♈51'18	
	9901 May 06 21:12	0°♉	
	9901 May 27 04:37	0°♊	
morning set	9901 May 30 02:05	4°♊37'24	
max. Earth dist.	9901 Jun 04 12:54	13°♊34'54	1.41222 AU
superior conj	9901 Jun 12 06:53	26°♊56'26	-1°42'10
minimum elong	9901 Jun 12 13:06	27°♊24'00	1°41'53
	9901 Jun 14 00:03	0°♋	
evening rise	9901 Jun 22 18:41	16°♋07'18	
asc. node	9901 Jun 25 00:02	20°♋14'43	
	9901 Jun 30 10:45	0°♌	
evening max el	9901 Jul 08 20:33	11°♌45'21	18°15'31
retrograde	9901 Jul 16 01:12	15°♌23'01	
evening set	9901 Jul 18 07:27	15°♌02'14	
inferior conj	9901 Jul 25 13:47	10°♌20'08	1°02'10
minimum elong	9901 Jul 25 15:46	10°♌15'54	1°01'08
min. Earth dist.	9901 Jul 28 22:33	7°♌28'29	0.59034 AU
desc. node	9901 Jul 29 02:22	7°♌20'48	
morning rise	9901 Aug 01 20:47	4°♌43'37	
direct	9901 Aug 08 03:37	2°♌56'10	
morning max el	9901 Aug 22 12:40	10°♌43'43	27°29'03
	9901 Sep 06 11:32	0°♍	
asc. node	9901 Sep 21 00:03	26°♍16'27	
morning set	9901 Sep 22 19:02	29°♍59'59	
	9901 Sep 22 19:02	0°♎	
superior conj	9901 Sep 29 20:04	15°♎21'16	1°18'20
minimum elong	9901 Sep 29 17:54	15°♎09'12	1°18'07
max. Earth dist.	9901 Sep 29 08:31	14°♎17'07	1.31501 AU
	9901 Oct 06 11:56	0°♏	
evening rise	9901 Oct 06 13:55	0°♏10'37	
	9901 Oct 22 16:52	0°♐	
desc. node	9901 Oct 25 00:25	3°♐25'37	
evening max el	9901 Nov 04 12:09	15°♐59'54	26°18'49
retrograde	9901 Nov 18 10:10	23°♐05'01	
evening set	9901 Nov 24 23:17	21°♐21'08	
min. Earth dist.	9901 Nov 29 01:21	18°♐46'30	0.58852 AU
inferior conj	9901 Dec 02 05:17	16°♐24'17	-4°35'47
minimum elong	9901 Dec 02 13:05	16°♐09'38	4°33'24
morning rise	9901 Dec 10 05:24	11°♐53'46	
direct	9901 Dec 12 09:55	11°♐37'25	
asc. node	9901 Dec 17 23:59	13°♐30'57	
morning max el	9901 Dec 20 11:28	15°♐34'04	18°25'58
	9901 Dec 30 12:14	0°♑	
morning set	9902 Jan 05 09:23	10°♑59'51	
superior conj	9902 Jan 14 10:58	28°♑10'46	0°48'30
minimum elong	9902 Jan 14 13:59	28°♑24'37	0°48'26
	9902 Jan 15 10:46	0°♒	
desc. node	9902 Jan 20 23:26	9°♒51'11	
max. Earth dist.	9902 Jan 21 23:01	11°♒33'07	1.40542 AU
evening rise	9902 Jan 26 07:45	18°♒54'54	
	9902 Feb 02 05:32	0°♓	
	9902 Feb 23 11:27	0°♈	
evening max el	9902 Mar 01 19:35	7°♈07'50	23°35'00
retrograde	9902 Mar 12 13:24	13°♈28'20	
asc. node	9902 Mar 15 22:34	12°♈33'30	
evening set	9902 Mar 17 16:30	11°♈19'41	
min. Earth dist.	9902 Mar 22 12:21	5°♈41'12	0.68462 AU
inferior conj	9902 Mar 23 02:40	4°♈52'06	2°07'48
minimum elong	9902 Mar 23 00:28	4°♈59'38	2°07'09
	9902 Mar 27 00:28	30°℞♓	
morning rise	9902 Mar 28 08:26	28°♓47'29	
direct	9902 Apr 01 13:00	27°♓08'57	
	9902 Apr 07 17:42	0°♈	
morning max el	9902 Apr 09 17:41	1°♈49'49	20°45'54
desc. node	9902 Apr 18 23:53	13°♈06'27	
	9902 Apr 30 16:24	0°♉	
morning set	9902 May 09 11:42	13°♉27'21	
max. Earth dist.	9902 May 17 18:25	26°♉35'32	1.43196 AU
	9902 May 19 20:40	0°♊	
superior conj	9902 May 24 13:06	7°♊46'14	-2°04'34
minimum elong	9902 May 24 18:11	8°♊07'34	2°04'40
evening rise	9902 Jun 05 14:08	28°♊38'56	
	9902 Jun 06 08:26	0°♋	
asc. node	9902 Jun 11 21:04	9°♋41'32	
evening max el	9902 Jun 22 08:53	24°♋49'20	18°04'37
retrograde	9902 Jun 28 22:30	28°♋11'57	
evening set	9902 Jul 01 12:29	27°♋40'19	
inferior conj	9902 Jul 08 02:04	22°♋38'34	2°08'42
minimum elong	9902 Jul 08 04:56	22°♋31'29	2°07'32
min. Earth dist.	9902 Jul 11 04:54	19°♋35'01	0.61299 AU
morning rise	9902 Jul 14 18:55	16°♋38'20	
desc. node	9902 Jul 15 23:29	15°♋54'05	
direct	9902 Jul 21 10:32	14°♋22'33	
morning max el	9902 Aug 04 16:32	22°♋23'00	27°56'03

	9902 Aug 11 09:40	0°♌	
	9902 Aug 30 15:19	0°♍	
morning set	9902 Sep 06 21:53	14°♍13'10	
asc. node	9902 Sep 07 20:54	16°♍12'32	
max. Earth dist.	9902 Sep 12 16:24	26°♍31'00	1.31774 AU
superior conj	9902 Sep 14 06:30	0°♎00'19	1°00'21
minimum elong	9902 Sep 14 04:19	29°♍48'15	0°59'56
	9902 Sep 14 06:27	0°♎	
evening rise	9902 Sep 21 00:34	14°♎49'27	
	9902 Sep 28 12:12	0°♏	
desc. node	9902 Oct 11 21:36	21°♏00'08	
evening max el	9902 Oct 17 03:33	26°♏46'26	24°56'39
	9902 Oct 20 23:41	0°♐	
retrograde	9902 Oct 30 23:45	3°♐44'04	
evening set	9902 Nov 05 13:49	2°♐33'46	
	9902 Nov 10 09:07	30°℞♏	
min. Earth dist.	9902 Nov 10 15:09	29°♏50'28	0.56899 AU
inferior conj	9902 Nov 13 08:56	28°♏03'05	-5°27'38
minimum elong	9902 Nov 13 14:13	27°♏54'26	5°26'39
morning rise	9902 Nov 21 16:54	23°♏54'55	
direct	9902 Nov 24 03:16	23°♏38'10	
morning max el	9902 Dec 03 11:15	28°♏05'38	19°16'59
asc. node	9902 Dec 04 20:58	29°♏32'09	
	9902 Dec 05 06:57	0°♐	
morning set	9902 Dec 20 10:29	25°♐25'12	
	9902 Dec 22 17:28	0°♑	
superior conj	9902 Dec 28 13:59	11°♑35'11	1°13'02
minimum elong	9902 Dec 28 17:02	11°♑49'59	1°13'04
max. Earth dist.	9903 Jan 04 04:43	24°♑01'21	1.38343 AU
evening rise	9903 Jan 07 22:48	0°♒42'00	
desc. node	9903 Jan 07 20:22	0°♒31'21	
	9903 Jan 07 13:11	0°♒	
	9903 Jan 26 12:17	0°♓	
evening max el	9903 Feb 12 08:57	20°♓56'18	24°53'28
retrograde	9903 Feb 24 04:05	27°♓48'25	
evening set	9903 Mar 01 19:22	25°♓27'36	
asc. node	9903 Mar 02 19:45	24°♓31'20	
min. Earth dist.	9903 Mar 06 07:28	20°♓23'50	0.67930 AU
inferior conj	9903 Mar 07 09:29	18°♓57'58	1°26'02
minimum elong	9903 Mar 07 07:39	19°♓04'00	1°25'30
morning rise	9903 Mar 12 20:12	13°♓00'45	
direct	9903 Mar 16 12:11	11°♓43'32	
morning max el	9903 Mar 23 19:03	15°♓46'35	19°37'45
	9903 Apr 03 21:44	0°♈	
greatest brilliancy	9903 Apr 05 11:50	2°♈18'51	-0.7m
desc. node	9903 Apr 05 20:42	2°♈51'27	
morning set	9903 Apr 18 10:03	21°♈51'56	
	9903 Apr 23 16:11	0°♉	
max. Earth dist.	9903 Apr 30 06:31	10°♉21'06	1.44672 AU
superior conj	9903 May 04 18:53	17°♉33'09	-2°12'48
minimum elong	9903 May 04 18:31	17°♉31'41	2°13'04
	9903 May 12 10:05	0°♊	
evening rise	9903 May 18 13:30	10°♊15'54	
asc. node	9903 May 29 18:08	28°♊44'52	
	9903 May 30 13:50	0°♋	
evening max el	9903 Jun 05 22:35	8°♋11'54	18°12'35
retrograde	9903 Jun 12 07:24	11°♋33'48	
evening set	9903 Jun 15 05:11	10°♋48'58	
inferior conj	9903 Jun 21 05:54	5°♋29'11	2°50'54
minimum elong	9903 Jun 21 08:13	5°♋22'45	2°50'04
min. Earth dist.	9903 Jun 23 20:22	2°♋36'19	0.63474 AU
	9903 Jun 26 12:12	30°℞♊	
morning rise	9903 Jun 27 09:44	29°♊15'43	
desc. node	9903 Jul 02 20:34	26°♊45'09	
direct	9903 Jul 04 03:03	26°♊39'50	
	9903 Jul 12 15:08	0°♋	
morning max el	9903 Jul 18 00:56	4°♋42'44	27°45'03
	9903 Aug 06 02:12	0°♌	
morning set	9903 Aug 21 17:37	28°♌02'53	
	9903 Aug 22 16:54	0°♍	
asc. node	9903 Aug 25 17:45	6°♍15'28	
max. Earth dist.	9903 Aug 26 18:28	8°♍25'40	1.32542 AU
superior conj	9903 Aug 29 13:43	14°♍25'46	0°37'31
minimum elong	9903 Aug 29 12:03	14°♍16'47	0°37'02
evening rise	9903 Sep 05 12:04	29°♍27'37	
	9903 Sep 05 18:08	0°♎	
	9903 Sep 22 13:29	0°♏	
evening max el	9903 Sep 28 14:26	6°♏59'40	23°18'08
desc. node	9903 Sep 28 18:48	7°♏10'11	
retrograde	9903 Oct 12 00:33	13°♏41'16	
evening set	9903 Oct 16 04:37	13°♏03'25	
min. Earth dist.	9903 Oct 23 00:07	9°♏53'09	0.55408 AU
inferior conj	9903 Oct 24 16:45	8°♏53'45	-5°41'40
minimum elong	9903 Oct 24 14:57	8°♏56'24	5°41'23
morning rise	9903 Nov 02 03:08	5°♏02'14	
direct	9903 Nov 05 01:42	4°♏41'24	
morning max el	9903 Nov 15 22:10	9°♏48'31	20°30'42
asc. node	9903 Nov 21 17:54	16°♏41'31	
	9903 Nov 29 16:01	0°♐	
morning set	9903 Dec 04 17:20	10°♐04'47	
superior conj	9903 Dec 12 05:37	25°♐34'36	1°29'21
minimum elong	9903 Dec 12 07:49	25°♐45'44	1°29'34
	9903 Dec 14 10:22	0°♑	
max. Earth dist.	9903 Dec 17 12:11	6°♑01'42	1.36235 AU
evening rise	9903 Dec 21 09:16	13°♑19'41	
desc. node	9903 Dec 25 17:21	21°♑04'45	
	9903 Dec 31 00:43	0°♒	
	9904 Jan 21 10:49	0°♓	
evening max el	9904 Jan 25 22:21	4°♓45'13	26°03'05
retrograde	9904 Feb 07 13:51	11°♓57'12	
evening set	9904 Feb 13 17:12	9°♓27'20	
asc. node	9904 Feb 17 16:53	5°♓16'15	
min. Earth dist.	9904 Feb 17 22:47	4°♓58'14	0.67004 AU
inferior conj	9904 Feb 19 12:27	3°♓01'02	0°35'27
minimum elong	9904 Feb 19 11:34	3°♓03'50	0°35'19
	9904 Feb 22 01:28	30°℞♒	
morning rise	9904 Feb 25 06:35	27°♒13'04	
direct	9904 Feb 28 11:18	26°♒14'49	
morning max el	9904 Mar 06 03:54	29°♒52'23	18°45'11
	9904 Mar 06 06:59	0°♓	
desc. node	9904 Mar 22 17:30	22°♓58'31	
	9904 Mar 27 05:33	0°♈	
morning set	9904 Mar 27 21:09	1°♈01'01	
max. Earth dist.	9904 Apr 11 24:00	24°♈39'15	1.45490 AU
superior conj	9904 Apr 13 05:31	26°♈34'53	-2°01'29
minimum elong	9904 Apr 12 22:04	26°♈05'41	2°01'12
	9904 Apr 15 09:46	0°♉	
evening rise	9904 Apr 28 13:22	20°♉53'47	
	9904 May 04 05:16	0°♊	
greatest brilliancy	9904 May 05 08:06	1°♊47'25	-0.9m
asc. node	9904 May 15 15:13	17°♊17'18	
evening max el	9904 May 19 10:43	21°♊46'00	18°38'34
retrograde	9904 May 25 24:00	25°♊20'42	
evening set	9904 May 29 05:37	24°♊21'15	
inferior conj	9904 Jun 03 21:21	18°♊44'46	3°13'07
minimum elong	9904 Jun 03 22:31	18°♊41'12	3°12'37
min. Earth dist.	9904 Jun 05 20:51	16°♊20'08	0.65360 AU
morning rise	9904 Jun 09 14:37	12°♊25'44	

direct	9904 Jun 16 03:16	9°♊41'11	
desc. node	9904 Jun 18 17:36	10°♊03'56	
morning max el	9904 Jun 29 11:21	17°♊33'49	27°00'55
	9904 Jul 09 20:39	0°♋	
	9904 Jul 29 00:04	0°♌	
morning set	9904 Aug 04 03:24	11°♌21'43	
max. Earth dist.	9904 Aug 08 11:30	19°♌55'23	1.33811 AU
asc. node	9904 Aug 11 14:38	26°♌21'20	
superior conj	9904 Aug 12 15:34	28°♌31'44	0°10'19
minimum elong	9904 Aug 12 15:02	28°♌28'57	0°09'58
behind sun begin	9904 Aug 12 10:34	28°♌05'31	
behind sun end	9904 Aug 12 19:30	28°♌52'26	
	9904 Aug 13 08:20	0°♍	
evening rise	9904 Aug 19 22:35	13°♍59'58	
	9904 Aug 28 00:33	0°♎	
evening max el	9904 Sep 09 05:12	17°♎13'34	21°40'19
desc. node	9904 Sep 14 16:01	21°♎26'48	
retrograde	9904 Sep 21 14:26	23°♎22'41	
evening set	9904 Sep 24 09:02	23°♎05'15	
inferior conj	9904 Oct 03 11:03	19°♎07'52	-5°00'46
minimum elong	9904 Oct 03 02:18	19°♎20'06	4°58'53
min. Earth dist.	9904 Oct 03 07:37	19°♎12'41	0.54676 AU
morning rise	9904 Oct 11 20:40	15°♎19'11	
direct	9904 Oct 15 11:42	14°♎50'33	
morning max el	9904 Oct 27 19:54	20°♎41'38	22°04'53
	9904 Nov 04 13:44	0°♏	
asc. node	9904 Nov 07 14:50	4°♏44'08	
morning set	9904 Nov 18 03:34	24°♏51'42	
	9904 Nov 20 13:45	0°♐	
superior conj	9904 Nov 25 06:10	9°♐58'05	1°38'09
minimum elong	9904 Nov 25 07:09	10°♐03'18	1°38'30
max. Earth dist.	9904 Nov 29 02:03	17°♐55'03	1.34416 AU
evening rise	9904 Dec 03 11:26	26°♐37'54	
	9904 Dec 05 05:51	0°♑	
desc. node	9904 Dec 11 14:22	11°♑26'14	
	9904 Dec 23 09:23	0°♒	
evening max el	9905 Jan 07 11:52	18°♒26'03	26°56'23
retrograde	9905 Jan 20 17:48	25°♒46'47	
evening set	9905 Jan 27 08:04	23°♒12'29	
min. Earth dist.	9905 Jan 31 07:56	19°♒17'35	0.65706 AU
inferior conj	9905 Feb 02 09:23	16°♒55'28	-0°23'46
minimum elong	9905 Feb 02 10:03	16°♒53'32	0°23'12
asc. node	9905 Feb 03 14:02	15°♒34'09	
morning rise	9905 Feb 08 13:16	11°♒19'15	
direct	9905 Feb 11 08:19	10°♒36'42	
morning max el	9905 Feb 17 18:20	14°♒00'42	18°09'11
	9905 Mar 01 07:55	0°♓	
morning set	9905 Mar 08 11:56	11°♓34'05	
desc. node	9905 Mar 09 14:19	13°♓20'56	
	9905 Mar 19 23:47	0°♈	
superior conj	9905 Mar 23 12:05	5°♈32'25	-1°31'07
minimum elong	9905 Mar 23 02:43	4°♈55'36	1°30'08
max. Earth dist.	9905 Mar 25 20:02	9°♈11'55	1.45565 AU
	9905 Apr 08 04:36	0°♉	
evening rise	9905 Apr 08 14:56	0°♉40'05	
greatest brilliancy	9905 Apr 20 20:17	19°♉28'53	-0.7m
	9905 Apr 28 04:44	0°♊	
asc. node	9905 May 02 12:21	5°♊08'27	
evening max el	9905 May 02 18:57	5°♊25'18	19°21'36
retrograde	9905 May 09 20:56	9°♊25'15	
evening set	9905 May 13 10:50	8°♊10'28	
inferior conj	9905 May 18 20:57	2°♊18'49	3°19'25
minimum elong	9905 May 18 20:54	2°♊18'58	3°19'04
min. Earth dist.	9905 May 20 05:19	0°♊33'03	0.66839 AU
	9905 May 20 15:38	30°℞♉	
morning rise	9905 May 24 06:34	25°♉58'56	
direct	9905 May 30 09:54	23°♉16'56	
desc. node	9905 Jun 05 14:36	25°♉26'03	
	9905 Jun 11 03:38	0°♊	
morning max el	9905 Jun 11 21:46	0°♊45'11	25°51'46
	9905 Jul 03 20:12	0°♋	
morning set	9905 Jul 17 23:36	24°♋00'09	
	9905 Jul 21 04:35	0°♌	
max. Earth dist.	9905 Jul 21 18:14	1°♌05'09	1.35550 AU
superior conj	9905 Jul 27 09:27	12°♌11'14	-0°20'26
minimum elong	9905 Jul 27 10:41	12°♌17'27	0°20'30
asc. node	9905 Jul 29 11:34	16°♌26'18	
evening rise	9905 Aug 04 06:03	28°♌20'34	
	9905 Aug 05 01:28	0°♍	
evening max el	9905 Aug 22 07:33	28°♍00'12	20°16'40
	9905 Aug 24 13:16	0°♎	
desc. node	9905 Sep 01 13:14	3°♎21'23	
retrograde	9905 Sep 02 03:14	3°♎22'17	
evening set	9905 Sep 04 02:46	3°♎12'16	
	9905 Sep 11 21:35	30°℞♍	
inferior conj	9905 Sep 13 04:56	29°♍14'14	-3°28'49
minimum elong	9905 Sep 12 19:56	29°♍27'28	3°25'51
min. Earth dist.	9905 Sep 14 16:42	28°♍21'37	0.54869 AU
morning rise	9905 Sep 21 12:18	25°♍07'29	
direct	9905 Sep 25 21:22	24°♍26'12	
	9905 Oct 08 06:31	0°♎	
morning max el	9905 Oct 09 09:11	1°♎00'20	23°51'03
asc. node	9905 Oct 25 11:46	23°♎27'19	
	9905 Oct 28 22:29	0°♏	
morning set	9905 Nov 02 15:18	9°♏40'47	
superior conj	9905 Nov 09 12:44	24°♏37'31	1°40'12
minimum elong	9905 Nov 09 12:30	24°♏36'19	1°40'31
max. Earth dist.	9905 Nov 12 00:05	29°♏56'53	1.33004 AU
	9905 Nov 12 00:40	0°♐	
evening rise	9905 Nov 17 01:42	10°♐27'48	
	9905 Nov 27 14:06	0°♑	
desc. node	9905 Nov 28 11:27	1°♑30'15	
	9905 Dec 19 04:52	0°♒	
evening max el	9905 Dec 21 00:23	1°♒47'59	27°26'13
retrograde	9906 Jan 03 15:23	9°♒09'17	
evening set	9906 Jan 10 13:41	6°♒37'04	
min. Earth dist.	9906 Jan 14 08:51	3°♒14'21	0.64070 AU
inferior conj	9906 Jan 16 21:46	0°♒35'37	-1°30'47
minimum elong	9906 Jan 17 00:37	0°♒28'09	1°29'15
	9906 Jan 17 11:28	30°℞♑	
asc. node	9906 Jan 21 11:10	26°♑24'32	
morning rise	9906 Jan 23 13:25	25°♑13'57	
direct	9906 Jan 26 00:36	24°♑43'27	
morning max el	9906 Feb 01 11:39	28°♑04'38	17°50'12
	9906 Feb 03 06:12	0°♒	
morning set	9906 Feb 18 06:54	23°♒29'17	
	9906 Feb 22 03:17	0°♓	
desc. node	9906 Feb 24 11:10	3°♓54'05	
superior conj	9906 Mar 03 08:59	15°♓15'03	-0°49'38
minimum elong	9906 Mar 03 03:32	14°♓52'59	0°48'44
max. Earth dist.	9906 Mar 08 15:22	23°♓40'27	1.44900 AU
	9906 Mar 12 15:56	0°♈	
evening rise	9906 Mar 19 03:22	10°♈01'13	
	9906 Apr 01 09:48	0°♉	
evening max el	9906 Apr 15 21:49	19°♉06'21	20°19'55
asc. node	9906 Apr 19 09:31	22°♉05'49	
retrograde	9906 Apr 23 19:39	23°♉41'43	
evening set	9906 Apr 27 18:35	22°♉11'27	

inferior conj	9906 May 03 01:56	16°♉06'24	3°12'47
minimum elong	9906 May 03 00:51	16°♉10'06	3°12'25
min. Earth dist.	9906 May 03 20:03	15°♉04'28	0.67867 AU
morning rise	9906 May 08 06:52	9°♉48'35	
direct	9906 May 13 22:08	7°♉18'06	
desc. node	9906 May 23 11:33	12°♉21'35	
morning max el	9906 May 25 07:24	14°♉07'31	24°27'13
	9906 Jun 07 05:16	0°♊	
	9906 Jun 26 16:56	0°♋	
morning set	9906 Jun 30 01:28	5°♋45'38	
max. Earth dist.	9906 Jul 03 16:47	12°♋13'28	1.37659 AU
superior conj	9906 Jul 10 16:06	25°♋15'39	-0°53'11
minimum elong	9906 Jul 10 19:33	25°♋32'16	0°52'57
	9906 Jul 13 02:32	0°♌	
asc. node	9906 Jul 16 08:31	6°♌26'01	
evening rise	9906 Jul 19 07:58	12°♌21'57	
	9906 Jul 28 19:30	0°♍	
evening max el	9906 Aug 04 23:26	9°♍32'20	19°13'08
retrograde	9906 Aug 14 03:01	14°♍04'54	
evening set	9906 Aug 15 23:29	13°♍54'30	
desc. node	9906 Aug 19 10:27	12°♍45'02	
inferior conj	9906 Aug 24 12:09	9°♍43'56	-1°34'18
minimum elong	9906 Aug 24 08:00	9°♍50'54	1°32'51
min. Earth dist.	9906 Aug 27 05:36	7°♍54'52	0.55979 AU
morning rise	9906 Sep 01 13:36	5°♍02'41	
direct	9906 Sep 06 18:10	4°♍00'38	
morning max el	9906 Sep 20 21:25	11°♍11'25	25°33'54
	9906 Oct 05 06:53	0°♎	
asc. node	9906 Oct 12 08:41	12°♎40'00	
morning set	9906 Oct 18 02:45	24°♎25'55	
	9906 Oct 20 16:29	0°♏	
superior conj	9906 Oct 24 22:52	9°♏24'31	1°36'08
minimum elong	9906 Oct 24 21:37	9°♏17'39	1°36'17
max. Earth dist.	9906 Oct 26 04:53	12°♏09'55	1.32048 AU
evening rise	9906 Nov 01 00:48	24°♏40'06	
	9906 Nov 03 15:38	0°♐	
desc. node	9906 Nov 15 08:34	21°♐08'23	
	9906 Nov 21 04:39	0°♑	
evening max el	9906 Dec 03 09:51	14°♑37'59	27°26'31
retrograde	9906 Dec 17 05:56	21°♑54'41	
evening set	9906 Dec 24 07:04	19°♑33'31	
min. Earth dist.	9906 Dec 27 23:54	16°♑37'45	0.62148 AU
inferior conj	9906 Dec 30 22:36	13°♑53'39	-2°43'28
minimum elong	9906 Dec 31 03:59	13°♑41'05	2°41'02
morning rise	9907 Jan 07 03:19	8°♑49'34	
asc. node	9907 Jan 08 08:17	8°♑32'09	
direct	9907 Jan 09 08:59	8°♑27'22	
morning max el	9907 Jan 16 04:41	11°♑55'25	17°48'55
	9907 Jan 28 08:47	0°♒	
morning set	9907 Feb 01 00:13	6°♒28'02	
desc. node	9907 Feb 11 08:02	24°♒33'51	
superior conj	9907 Feb 12 06:06	26°♒07'36	-0°06'55
minimum elong	9907 Feb 12 05:28	26°♒04'54	0°06'34
behind sun begin	9907 Feb 11 21:23	25°♒30'39	
behind sun end	9907 Feb 12 13:32	26°♒39'05	
	9907 Feb 14 13:24	0°♓	
max. Earth dist.	9907 Feb 19 07:13	7°♓47'42	1.43573 AU
evening rise	9907 Feb 26 17:43	19°♓35'19	
	9907 Mar 05 13:09	0°♈	
	9907 Mar 27 04:58	0°♉	
evening max el	9907 Mar 29 19:09	2°♉48'38	21°30'31
asc. node	9907 Apr 06 06:41	7°♉54'38	
retrograde	9907 Apr 07 17:58	8°♉05'22	
evening set	9907 Apr 12 02:59	6°♉19'48	
inferior conj	9907 Apr 17 09:56	0°♉03'41	2°55'12
minimum elong	9907 Apr 17 08:07	0°♉10'02	2°54'42
	9907 Apr 17 11:00	30°℞♈	
min. Earth dist.	9907 Apr 17 14:55	29°♈46'21	0.68440 AU
morning rise	9907 Apr 22 13:03	23°♈49'49	
direct	9907 Apr 27 14:58	21°♈37'07	
morning max el	9907 May 07 17:30	27°♈36'43	22°57'23
	9907 May 09 23:25	0°♉	
desc. node	9907 May 10 08:29	0°♉25'26	
	9907 May 31 20:29	0°♊	
morning set	9907 Jun 11 03:43	16°♊25'06	
max. Earth dist.	9907 Jun 15 13:23	23°♊50'43	1.39936 AU
	9907 Jun 19 02:09	0°♋	
superior conj	9907 Jun 23 07:33	7°♋36'06	-1°25'22
minimum elong	9907 Jun 23 13:05	8°♋01'28	1°25'01
evening rise	9907 Jul 03 01:14	25°♋56'25	
asc. node	9907 Jul 03 05:30	26°♋16'47	
	9907 Jul 05 04:27	0°♌	
evening max el	9907 Jul 19 02:25	21°♌47'54	18°30'42
retrograde	9907 Jul 26 20:55	25°♌40'59	
evening set	9907 Jul 28 22:51	25°♌25'08	
inferior conj	9907 Aug 05 16:16	20°♌55'19	0°11'38
minimum elong	9907 Aug 05 16:42	20°♌54'29	0°11'12
transit middle	9907 Aug 05 16:42	20°♌54'29	0°11'12
transit begin	9907 Aug 05 14:07	20°♌59'32	
transit end	9907 Aug 05 19:16	20°♌49'26	
desc. node	9907 Aug 06 07:37	20°♌25'10	
min. Earth dist.	9907 Aug 08 23:52	18°♌20'46	0.57800 AU
morning rise	9907 Aug 13 07:00	15°♌37'11	
direct	9907 Aug 19 05:51	14°♌06'48	
morning max el	9907 Sep 02 14:22	21°♌43'49	26°56'06
	9907 Sep 09 20:36	0°♍	
	9907 Sep 28 02:44	0°♎	
asc. node	9907 Sep 29 05:35	2°♎14'23	
morning set	9907 Oct 02 12:17	9°♎02'26	
superior conj	9907 Oct 09 10:34	24°♎12'55	1°26'23
minimum elong	9907 Oct 09 08:37	24°♎02'06	1°26'18
max. Earth dist.	9907 Oct 09 13:44	24°♎30'35	1.31566 AU
	9907 Oct 12 01:08	0°♏	
evening rise	9907 Oct 16 06:07	9°♏07'47	
	9907 Oct 26 23:58	0°♐	
desc. node	9907 Nov 02 05:42	10°♐10'26	
evening max el	9907 Nov 15 13:55	26°♐44'53	26°53'12
	9907 Nov 19 10:49	0°♑	
retrograde	9907 Nov 29 12:09	3°♑54'07	
evening set	9907 Dec 06 08:21	1°♑54'13	
	9907 Dec 09 05:10	30°℞♐	
min. Earth dist.	9907 Dec 10 04:21	29°♐15'40	0.60059 AU
inferior conj	9907 Dec 13 08:27	26°♐40'53	-3°56'51
minimum elong	9907 Dec 13 15:54	26°♐25'39	3°54'08
morning rise	9907 Dec 21 02:04	21°♐57'10	
direct	9907 Dec 23 05:36	21°♐39'40	
asc. node	9907 Dec 26 05:22	22°♐15'12	
morning max el	9907 Dec 30 17:57	25°♐23'39	18°06'32
	9908 Jan 03 14:50	0°♑	
morning set	9908 Jan 15 09:36	20°♑11'35	
	9908 Jan 20 15:58	0°♒	
superior conj	9908 Jan 25 03:36	8°♒08'53	0°30'33
minimum elong	9908 Jan 25 05:53	8°♒19'07	0°30'31
desc. node	9908 Jan 29 04:53	15°♒16'28	
max. Earth dist.	9908 Feb 01 18:37	21°♒21'30	1.41743 AU
evening rise	9908 Feb 06 23:17	29°♒53'39	
	9908 Feb 07 00:52	0°♓	
	9908 Feb 27 01:58	0°♈	

evening max el	9908 Mar 11 12:01	16°♈32'54	22°48'53
retrograde	9908 Mar 21 14:11	22°♈31'08	
asc. node	9908 Mar 23 03:52	22°♈19'04	
evening set	9908 Mar 26 10:24	20°♈30'45	
inferior conj	9908 Mar 31 18:56	14°♈06'30	2°27'47
minimum elong	9908 Mar 31 16:45	14°♈14'05	2°27'10
min. Earth dist.	9908 Mar 31 11:34	14°♈32'06	0.68575 AU
morning rise	9908 Apr 05 22:58	7°♈58'05	
direct	9908 Apr 10 11:18	6°♈06'35	
morning max el	9908 Apr 19 07:20	11°♈14'11	21°31'07
desc. node	9908 Apr 26 05:20	19°♈18'14	
	9908 May 04 00:43	0°♉	
morning set	9908 May 21 02:58	25°♉50'04	
	9908 May 23 17:33	0°♊	
max. Earth dist.	9908 May 27 14:46	6°♊19'36	1.42108 AU
superior conj	9908 Jun 04 03:05	19°♊01'17	-1°52'58
minimum elong	9908 Jun 04 09:16	19°♊28'04	1°52'49
	9908 Jun 10 08:16	0°♋	
evening rise	9908 Jun 15 05:53	8°♋53'22	
asc. node	9908 Jun 19 02:29	15°♋53'25	
	9908 Jun 27 16:16	0°♌	
evening max el	9908 Jul 01 12:28	4°♌36'50	18°08'34
retrograde	9908 Jul 08 09:10	8°♌05'51	
evening set	9908 Jul 10 18:50	7°♌40'40	
inferior conj	9908 Jul 17 17:38	2°♌50'08	1°33'32
minimum elong	9908 Jul 17 20:13	2°♌44'14	1°32'21
	9908 Jul 20 20:42	30°℞♋	
min. Earth dist.	9908 Jul 21 01:02	29°♋50'36	0.59999 AU
desc. node	9908 Jul 23 04:46	28°♋06'31	
morning rise	9908 Jul 24 18:39	27°♋02'31	
direct	9908 Jul 31 06:19	25°♋02'14	
	9908 Aug 11 08:42	0°♌	
morning max el	9908 Aug 14 14:14	2°♌55'49	27°45'10
	9908 Sep 03 09:45	0°♍	
asc. node	9908 Sep 15 02:27	22°♍03'55	
morning set	9908 Sep 15 18:08	23°♍25'29	
	9908 Sep 18 20:15	0°♎	
max. Earth dist.	9908 Sep 21 23:08	6°♎50'23	1.31562 AU
superior conj	9908 Sep 22 21:59	8°♎56'55	1°11'20
minimum elong	9908 Sep 22 19:44	8°♎44'30	1°11'01
evening rise	9908 Sep 29 15:25	23°♎44'26	
	9908 Oct 02 14:52	0°♏	
desc. node	9908 Oct 19 02:51	28°♏22'24	
	9908 Oct 20 08:09	0°♐	
evening max el	9908 Oct 27 10:18	8°♐01'09	25°46'54
retrograde	9908 Nov 10 08:00	15°♐02'36	
evening set	9908 Nov 16 12:50	13°♐32'48	
min. Earth dist.	9908 Nov 20 22:50	10°♐56'42	0.57988 AU
inferior conj	9908 Nov 23 23:56	8°♐47'45	-5°01'02
minimum elong	9908 Nov 24 07:14	8°♐34'49	4°59'11
morning rise	9908 Dec 02 03:58	4°♐26'33	
direct	9908 Dec 04 10:17	4°♐10'21	
asc. node	9908 Dec 12 02:24	7°♐30'13	
morning max el	9908 Dec 12 23:42	8°♐19'08	18°44'51
	9908 Dec 26 23:17	0°♑	
morning set	9908 Dec 29 06:08	4°♑25'41	
superior conj	9909 Jan 06 21:20	21°♑07'34	0°59'57
minimum elong	9909 Jan 07 00:31	21°♑22'33	0°59'54
	9909 Jan 11 16:47	0°♒	
max. Earth dist.	9909 Jan 14 02:14	4°♒15'47	1.39615 AU
desc. node	9909 Jan 15 01:47	5°♒58'50	
evening rise	9909 Jan 18 02:07	11°♒09'08	
	9909 Jan 29 21:18	0°♓	
	9909 Feb 21 18:02	0°♈	
evening max el	9909 Feb 22 02:14	0°♈20'31	24°09'04
retrograde	9909 Mar 05 07:03	6°♈54'57	
asc. node	9909 Mar 10 01:02	5°♈09'44	
evening set	9909 Mar 10 15:22	4°♈40'55	
	9909 Mar 14 19:02	30°℞♓	
min. Earth dist.	9909 Mar 15 07:48	29°♓17'18	0.68289 AU
inferior conj	9909 Mar 16 03:05	28°♓12'10	1°51'12
minimum elong	9909 Mar 16 00:59	28°♓19'17	1°50'33
morning rise	9909 Mar 21 10:39	22°♓10'34	
direct	9909 Mar 25 09:50	20°♓41'07	
morning max el	9909 Apr 02 04:08	25°♓03'56	20°15'09
	9909 Apr 06 13:04	0°♈	
desc. node	9909 Apr 13 02:10	8°♈46'59	
	9909 Apr 27 09:12	0°♉	
morning set	9909 Apr 30 05:06	4°♉20'51	
max. Earth dist.	9909 May 09 23:37	19°♉42'08	1.43901 AU
superior conj	9909 May 15 22:48	29°♉23'20	-2°10'11
minimum elong	9909 May 16 02:06	29°♉36'54	2°10'25
	9909 May 16 07:42	0°♊	
evening rise	9909 May 28 17:17	21°♊02'19	
	9909 Jun 02 21:42	0°♋	
asc. node	9909 Jun 05 23:30	5°♋10'35	
evening max el	9909 Jun 15 01:45	17°♋49'16	18°05'46
retrograde	9909 Jun 21 12:00	21°♋09'46	
evening set	9909 Jun 24 05:24	20°♋32'35	
inferior conj	9909 Jun 30 12:59	15°♋22'40	2°29'20
minimum elong	9909 Jun 30 15:44	15°♋15'30	2°28'17
min. Earth dist.	9909 Jul 03 10:56	12°♋21'31	0.62250 AU
morning rise	9909 Jul 07 00:05	9°♋15'50	
desc. node	9909 Jul 10 01:52	7°♋32'47	
direct	9909 Jul 13 17:15	6°♋50'36	
morning max el	9909 Jul 27 20:17	14°♋52'32	27°55'55
	9909 Aug 09 02:56	0°♌	
	9909 Aug 26 23:42	0°♍	
morning set	9909 Aug 30 18:15	7°♍29'16	
asc. node	9909 Sep 01 23:17	12°♍03'13	
max. Earth dist.	9909 Sep 05 05:12	18°♍58'08	1.32044 AU
superior conj	9909 Sep 07 07:17	23°♍30'42	0°51'15
minimum elong	9909 Sep 07 05:15	23°♍19'32	0°50'47
	9909 Sep 10 06:10	0°♎	
evening rise	9909 Sep 14 02:40	8°♎23'48	
	9909 Sep 25 04:34	0°♏	
desc. node	9909 Oct 06 00:03	15°♏24'18	
evening max el	9909 Oct 08 23:02	18°♏30'17	24°15'44
retrograde	9909 Oct 22 15:52	25°♏22'16	
evening set	9909 Oct 27 16:47	24°♏26'22	
min. Earth dist.	9909 Nov 02 09:49	21°♏33'59	0.56195 AU
inferior conj	9909 Nov 04 18:52	20°♏05'47	-5°39'26
minimum elong	9909 Nov 04 21:36	20°♏01'33	5°39'00
morning rise	9909 Nov 13 04:31	16°♏06'02	
direct	9909 Nov 15 19:36	15°♏47'53	
morning max el	9909 Nov 25 18:16	20°♏30'43	19°45'34
asc. node	9909 Nov 28 23:23	24°♏02'23	
	9909 Dec 03 04:26	0°♐	
morning set	9909 Dec 13 10:03	18°♐58'25	
	9909 Dec 18 20:31	0°♑	
superior conj	9909 Dec 21 06:17	4°♑48'38	1°20'55
minimum elong	9909 Dec 21 09:03	5°♑02'17	1°21'02
max. Earth dist.	9909 Dec 27 08:29	16°♑31'35	1.37426 AU
evening rise	9909 Dec 31 01:52	23°♑18'43	
desc. node	9910 Jan 01 22:44	26°♑36'30	
	9910 Jan 03 21:57	0°♒	
	9910 Jan 23 15:42	0°♓	
evening max el	9910 Feb 04 15:27	14°♓09'23	25°24'29

retrograde	9910 Feb 16 19:38	21°♓11'02	
evening set	9910 Feb 22 16:17	18°♓45'39	
asc. node	9910 Feb 24 22:12	16°♓32'12	
min. Earth dist.	9910 Feb 27 01:27	13°♓56'56	0.67590 AU
inferior conj	9910 Feb 28 08:29	12°♓16'52	1°05'40
minimum elong	9910 Feb 28 06:59	12°♓21'44	1°05'14
morning rise	9910 Mar 05 22:05	6°♓23'37	
direct	9910 Mar 09 09:08	5°♓14'52	
morning max el	9910 Mar 16 08:55	9°♓05'12	19°13'26
greatest brilliancy	9910 Mar 29 09:14	26°♓19'56	-0.7m
desc. node	9910 Mar 30 23:00	28°♓41'55	
	9910 Mar 31 19:38	0°♈	
morning set	9910 Apr 09 06:04	12°♈56'29	
	9910 Apr 20 05:26	0°♉	
max. Earth dist.	9910 Apr 22 14:36	3°♉44'26	1.45105 AU
superior conj	9910 Apr 25 19:06	8°♉46'34	-2°10'32
minimum elong	9910 Apr 25 15:32	8°♉32'24	2°10'40
	9910 May 08 22:18	0°♊	
evening rise	9910 May 10 06:55	2°♊14'17	
asc. node	9910 May 23 20:34	24°♊01'40	
	9910 May 28 10:02	0°♋	
evening max el	9910 May 29 15:01	1°♋17'00	18°21'29
retrograde	9910 Jun 05 00:47	4°♋43'09	
evening set	9910 Jun 08 01:49	3°♋52'14	
	9910 Jun 12 12:51	30°℞♊	
inferior conj	9910 Jun 13 22:14	28°♊24'55	3°02'32
minimum elong	9910 Jun 14 00:06	28°♊19'31	3°01'51
min. Earth dist.	9910 Jun 16 06:23	25°♊42'24	0.64310 AU
morning rise	9910 Jun 19 21:12	22°♊08'06	
direct	9910 Jun 26 12:59	19°♊27'20	
desc. node	9910 Jun 26 22:56	19°♊27'54	
morning max el	9910 Jul 10 06:07	27°♊27'53	27°30'06
	9910 Jul 12 15:35	0°♋	
	9910 Aug 02 20:00	0°♌	
morning set	9910 Aug 14 10:13	21°♌07'25	
	9910 Aug 18 19:35	0°♍	
max. Earth dist.	9910 Aug 19 04:04	0°♍44'03	1.33017 AU
asc. node	9910 Aug 19 20:09	2°♍08'01	
superior conj	9910 Aug 22 12:31	7°♍48'46	0°26'29
minimum elong	9910 Aug 22 11:15	7°♍42'02	0°26'03
evening rise	9910 Aug 29 14:02	23°♍00'30	
	9910 Sep 01 22:31	0°♎	
evening max el	9910 Sep 20 10:14	28°♎38'52	22°35'30
	9910 Sep 21 21:17	0°♏	
desc. node	9910 Sep 22 21:15	0°♏50'20	
retrograde	9910 Oct 03 11:53	5°♏09'43	
evening set	9910 Oct 07 00:44	4°♏42'15	
min. Earth dist.	9910 Oct 14 17:39	1°♏15'41	0.54991 AU
inferior conj	9910 Oct 15 19:46	0°♏38'35	-5°31'31
minimum elong	9910 Oct 15 14:31	0°♏46'03	5°30'45
	9910 Oct 16 23:05	30°℞♎	
morning rise	9910 Oct 24 06:05	26°♎50'49	
direct	9910 Oct 27 11:07	26°♎27'20	
	9910 Nov 05 18:35	0°♏	
morning max el	9910 Nov 07 23:32	1°♏52'36	21°08'33
asc. node	9910 Nov 15 20:21	11°♏36'12	
	9910 Nov 25 23:30	0°♐	
morning set	9910 Nov 27 18:36	3°♐41'56	
superior conj	9910 Dec 05 02:11	18°♐59'51	1°33'56
minimum elong	9910 Dec 05 03:53	19°♐08'38	1°34'14
max. Earth dist.	9910 Dec 09 18:02	28°♐25'31	1.35419 AU
	9910 Dec 10 13:16	0°♑	
evening rise	9910 Dec 13 19:29	6°♑14'45	
desc. node	9910 Dec 19 19:44	17°♑05'16	
	9910 Dec 27 16:21	0°♒	
evening max el	9911 Jan 18 04:44	27°♒55'03	26°28'01
	9911 Jan 20 11:19	0°♓	
retrograde	9911 Jan 31 03:11	5°♓12'38	
evening set	9911 Feb 06 11:26	2°♓39'55	
	9911 Feb 09 05:30	30°℞♒	
min. Earth dist.	9911 Feb 10 14:23	28°♒25'37	0.66499 AU
asc. node	9911 Feb 11 19:23	26°♒58'23	
inferior conj	9911 Feb 12 09:10	26°♒16'35	0°11'21
minimum elong	9911 Feb 12 08:51	26°♒17'32	0°11'27
transit middle	9911 Feb 12 08:51	26°♒17'32	0°11'27
transit begin	9911 Feb 12 06:50	26°♒23'40	
transit end	9911 Feb 12 10:53	26°♒11'24	
morning rise	9911 Feb 18 07:12	20°♒33'31	
direct	9911 Feb 21 07:30	19°♒42'34	
morning max el	9911 Feb 27 20:31	23°♒13'07	18°27'46
	9911 Mar 05 10:38	0°♓	
desc. node	9911 Mar 17 19:50	18°♓55'54	
morning set	9911 Mar 20 03:59	22°♓38'26	
	9911 Mar 24 19:35	0°♈	
superior conj	9911 Apr 05 01:39	17°♈39'55	-1°50'35
minimum elong	9911 Apr 04 16:30	17°♈04'06	1°49'57
max. Earth dist.	9911 Apr 05 09:07	18°♈09'07	1.45609 AU
	9911 Apr 12 22:47	0°♉	
evening rise	9911 Apr 20 20:40	12°♉27'33	
greatest brilliancy	9911 Apr 30 06:44	27°♉17'59	-0.8m
	9911 May 02 00:40	0°♊	
asc. node	9911 May 10 17:40	12°♊17'35	
evening max el	9911 May 13 01:39	14°♊53'08	18°54'56
retrograde	9911 May 19 19:37	18°♊37'33	
evening set	9911 May 23 04:34	17°♊31'49	
inferior conj	9911 May 28 17:31	11°♊48'46	3°17'34
minimum elong	9911 May 28 18:10	11°♊46'45	3°17'08
min. Earth dist.	9911 May 30 10:35	9°♊39'25	0.66033 AU
morning rise	9911 Jun 03 07:08	5°♊28'39	
direct	9911 Jun 09 16:13	2°♊43'42	
desc. node	9911 Jun 13 19:59	3°♊42'07	
morning max el	9911 Jun 22 16:49	10°♊28'53	26°34'04
	9911 Jul 08 03:22	0°♋	
	9911 Jul 26 08:59	0°♌	
morning set	9911 Jul 28 14:43	4°♌10'09	
max. Earth dist.	9911 Aug 01 16:27	12°♌02'20	1.34487 AU
superior conj	9911 Aug 06 11:17	21°♌43'48	-0°02'23
minimum elong	9911 Aug 06 11:26	21°♌44'35	0°02'38
behind sun begin	9911 Aug 06 05:40	21°♌14'44	
behind sun end	9911 Aug 06 17:13	22°♌14'29	
asc. node	9911 Aug 06 17:04	22°♌13'44	
	9911 Aug 10 10:12	0°♍	
evening rise	9911 Aug 13 23:28	7°♍27'52	
	9911 Aug 26 01:31	0°♎	
evening max el	9911 Sep 02 05:16	9°♎03'27	21°02'37
desc. node	9911 Sep 09 18:28	14°♎09'16	
retrograde	9911 Sep 14 00:00	14°♎53'56	
evening set	9911 Sep 16 07:58	14°♎41'07	
inferior conj	9911 Sep 25 12:03	10°♎45'18	-4°26'47
minimum elong	9911 Sep 25 02:16	10°♎59'08	4°24'08
min. Earth dist.	9911 Sep 26 01:54	10°♎25'43	0.54636 AU
morning rise	9911 Oct 03 20:53	6°♎51'04	
direct	9911 Oct 07 19:13	6°♎17'50	
morning max el	9911 Oct 20 16:56	12°♎28'33	22°49'17
asc. node	9911 Nov 02 17:18	29°♎57'17	
	9911 Nov 02 17:55	0°♏	
morning set	9911 Nov 12 05:42	18°♏30'11	
	9911 Nov 17 14:15	0°♐	

superior conj	9911 Nov 19	05:38	3°♐31'12	1°39'48
minimum elong	9911 Nov 19	06:05	3°♐33'40	1°40'09
max. Earth dist.	9911 Nov 22	11:04	10°♐19'54	1.33762 AU
evening rise	9911 Nov 27	03:15	19°♐47'47	
	9911 Dec 02	12:46	0°♑	
desc. node	9911 Dec 06	16:47	7°♑20'07	
	9911 Dec 21	17:17	0°♒	
evening max el	9911 Dec 31	18:02	11°♒29'38	27°12'20
retrograde	9912 Jan 14	04:48	18°♒52'05	
evening set	9912 Jan 20	22:46	16°♒17'51	
min. Earth dist.	9912 Jan 24	20:28	12°♒36'47	0.65046 AU
inferior conj	9912 Jan 27	02:52	10°♒06'21	-0°51'20
minimum elong	9912 Jan 27	04:23	10°♒02'07	0°50'22
asc. node	9912 Jan 29	16:33	7°♒23'37	
morning rise	9912 Feb 02	11:31	4°♒35'49	
direct	9912 Feb 05	02:52	3°♒58'59	
morning max el	9912 Feb 11	12:33	7°♒20'55	17°58'54
	9912 Feb 26	23:59	0°♓	
morning set	9912 Feb 29	07:22	3°♓48'48	
desc. node	9912 Mar 03	16:40	9°♓23'38	
superior conj	9912 Mar 14	12:33	26°♓52'36	-1°14'16
minimum elong	9912 Mar 14	04:24	26°♓20'16	1°13'13
	9912 Mar 16	11:55	0°♈	
max. Earth dist.	9912 Mar 18	04:48	2°♈41'00	1.45369 AU
evening rise	9912 Mar 30	15:06	21°♈59'11	
	9912 Apr 04	20:25	0°♉	
greatest brilliancy	9912 Apr 13	15:50	13°♉17'05	-0.6m
evening max el	9912 Apr 25	07:48	28°♉34'05	19°44'44
asc. node	9912 Apr 26	14:50	29°♉48'00	
	9912 Apr 26	20:17	0°♊	
retrograde	9912 May 02	17:30	2°♊47'55	
evening set	9912 May 06	11:06	1°♊26'41	
	9912 May 08	02:50	30°℞♉	
inferior conj	9912 May 11	19:45	25°♉29'22	3°18'01
minimum elong	9912 May 11	19:14	25°♉31'07	3°17'41
min. Earth dist.	9912 May 12	22:02	24°♉01'38	0.67336 AU
morning rise	9912 May 17	03:01	19°♉10'06	
direct	9912 May 23	01:35	16°♉31'42	
desc. node	9912 May 30	16:58	19°♉47'32	
morning max el	9912 Jun 04	02:39	23°♉45'08	25°16'58
	9912 Jun 09	16:08	0°♊	
	9912 Jun 30	12:38	0°♋	
morning set	9912 Jul 10	03:41	16°♋27'15	
max. Earth dist.	9912 Jul 13	18:39	23°♋05'45	1.36411 AU
	9912 Jul 17	09:43	0°♌	
superior conj	9912 Jul 20	00:50	5°♌09'18	-0°34'12
minimum elong	9912 Jul 20	02:58	5°♌19'53	0°34'09
asc. node	9912 Jul 23	13:58	12°♌16'32	
evening rise	9912 Jul 28	04:51	21°♌40'35	
	9912 Aug 01	09:17	0°♍	
evening max el	9912 Aug 14	13:32	20°♍08'54	19°47'06
retrograde	9912 Aug 24	15:32	25°♍08'41	
evening set	9912 Aug 26	12:21	24°♍59'11	
desc. node	9912 Aug 26	15:41	24°♍57'44	
inferior conj	9912 Sep 04	10:04	20°♍57'26	-2°40'52
minimum elong	9912 Sep 04	02:50	21°♍08'34	2°38'20
min. Earth dist.	9912 Sep 06	12:23	19°♍40'00	0.55239 AU
morning rise	9912 Sep 12	15:30	16°♍37'23	
direct	9912 Sep 17	09:07	15°♍48'02	
morning max el	9912 Oct 01	04:33	22°♍38'52	24°36'15
	9912 Oct 07	17:22	0°♎	
asc. node	9912 Oct 19	14:13	18°♎53'55	
	9912 Oct 25	04:04	0°♏	
morning set	9912 Oct 26	17:30	3°♏17'47	

superior conj	9912 Nov 02	13:56	18°♏14'20	1°39'11
minimum elong	9912 Nov 02	13:15	18°♏10'35	1°39'27
max. Earth dist.	9912 Nov 04	12:17	22°♏26'41	1.32541 AU
	9912 Nov 08	01:25	0°♐	
evening rise	9912 Nov 09	21:37	3°♐48'15	
desc. node	9912 Nov 22	13:52	27°♐14'12	
	9912 Nov 24	06:34	0°♑	
evening max el	9912 Dec 13	05:49	24°♑40'42	27°30'24
	9912 Dec 20	04:40	0°♒	
retrograde	9912 Dec 26	23:28	1°♒59'57	
	9913 Jan 02	06:40	30°℞♑	
evening set	9913 Jan 02	23:36	29°♑31'40	
min. Earth dist.	9913 Jan 06	17:31	26°♑20'59	0.63282 AU
inferior conj	9913 Jan 09	10:47	23°♑38'41	-2°01'08
minimum elong	9913 Jan 09	14:42	23°♑28'54	1°59'10
asc. node	9913 Jan 15	13:42	18°♑43'07	
morning rise	9913 Jan 16	07:51	18°♑23'46	
direct	9913 Jan 18	16:24	17°♑57'10	
morning max el	9913 Jan 25	06:07	21°♑20'15	17°47'21
	9913 Jan 31	21:04	0°♒	
morning set	9913 Feb 10	12:43	16°♒14'10	
desc. node	9913 Feb 18	13:29	0°♓00'04	
	9913 Feb 18	13:28	0°♓	
superior conj	9913 Feb 22	19:10	7°♓03'34	-0°31'11
minimum elong	9913 Feb 22	15:53	6°♓50'03	0°30'30
max. Earth dist.	9913 Feb 28	23:14	17°♓03'43	1.44417 AU
	9913 Mar 09	05:15	0°♈	
evening rise	9913 Mar 10	02:30	1°♈21'48	
	9913 Mar 29	11:23	0°♉	
evening max el	9913 Apr 08	08:24	12°♉16'14	20°48'40
asc. node	9913 Apr 13	12:01	16°♉18'25	
retrograde	9913 Apr 16	16:09	17°♉08'08	
evening set	9913 Apr 20	19:20	15°♉31'14	
inferior conj	9913 Apr 26	02:16	9°♉21'21	3°06'31
minimum elong	9913 Apr 26	00:50	9°♉26'19	3°06'06
min. Earth dist.	9913 Apr 26	14:40	8°♉38'31	0.68176 AU
morning rise	9913 May 01	06:07	3°♉05'15	
direct	9913 May 06	15:53	0°♉41'44	
morning max el	9913 May 17	12:02	7°♉09'59	23°49'00
desc. node	9913 May 17	13:54	7°♉14'42	
	9913 Jun 04	06:43	0°♊	
morning set	9913 Jun 21	20:03	27°♊45'40	
	9913 Jun 23	03:21	0°♋	
max. Earth dist.	9913 Jun 25	15:43	4°♋23'43	1.38630 AU
superior conj	9913 Jul 03	01:32	17°♋56'23	-1°07'06
minimum elong	9913 Jul 03	05:57	18°♋17'11	1°06'47
	9913 Jul 09	07:45	0°♌	
asc. node	9913 Jul 10	10:56	2°♌13'05	
evening rise	9913 Jul 12	03:29	5°♌31'38	
	9913 Jul 26	14:25	0°♍	
evening max el	9913 Jul 28	10:34	2°♍00'15	18°52'30
retrograde	9913 Aug 05	22:37	6°♍14'16	
evening set	9913 Aug 07	21:00	6°♍01'59	
desc. node	9913 Aug 13	12:51	3°♍27'45	
inferior conj	9913 Aug 16	01:40	1°♍43'19	-0°46'58
minimum elong	9913 Aug 15	23:41	1°♍46'50	0°46'25
	9913 Aug 18	11:31	30°℞♌	
min. Earth dist.	9913 Aug 19	02:58	29°♌33'13	0.56686 AU
morning rise	9913 Aug 23	23:07	26°♌46'20	
direct	9913 Aug 29	11:56	25°♌33'05	
	9913 Sep 09	09:29	0°♍	
morning max el	9913 Sep 12	18:10	2°♍55'24	26°12'29
	9913 Oct 02	02:07	0°♎	
asc. node	9913 Oct 06	11:05	8°♎16'54	
morning set	9913 Oct 11	04:21	18°♎00'09	

	9913 Oct	16	16:01	0°♏	
superior conj	9913 Oct	18	00:57	3°♏02'42	1°32'40
minimum elong	9913 Oct	17	23:22	2°♏53'55	1°32'44
max. Earth dist.	9913 Oct	18	19:27	4°♏45'17	1.31783 AU
evening rise	9913 Oct	24	23:40	18°♏08'12	
	9913 Oct	30	21:36	0°♐	
desc. node	9913 Nov	09	10:58	16°♐38'53	
	9913 Nov	18	22:36	0°♑	
evening max el	9913 Nov	25	13:25	7°♑14'27	27°16'37
retrograde	9913 Dec	09	10:17	14°♑27'20	
evening set	9913 Dec	16	10:39	12°♑13'58	
min. Earth dist.	9913 Dec	20	03:56	9°♑27'12	0.61277 AU
inferior conj	9913 Dec	23	05:41	6°♑45'17	-3°14'54
minimum elong	9913 Dec	23	12:05	6°♑31'10	3°12'13
morning rise	9913 Dec	30	16:00	1°♑49'27	
direct	9914 Jan	01	20:26	1°♑29'33	
asc. node	9914 Jan	02	10:47	1°♑31'05	
morning max el	9914 Jan	08	21:58	5°♑02'53	17°54'00
morning set	9914 Jan	24	13:36	29°♑34'35	
	9914 Jan	24	19:11	0°♒	
superior conj	9914 Feb	04	03:03	18°♒26'55	0°09'52
minimum elong	9914 Feb	04	03:55	18°♒30'43	0°10'00
behind sun begin	9914 Feb	03	21:23	18°♒02'24	
behind sun end	9914 Feb	04	10:28	18°♒59'00	
desc. node	9914 Feb	05	10:21	20°♒41'48	
	9914 Feb	10	23:08	0°♓	
max. Earth dist.	9914 Feb	11	13:51	1°♓00'32	1.42856 AU
evening rise	9914 Feb	17	22:08	11°♓12'20	
	9914 Mar	02	07:12	0°♈	
evening max el	9914 Mar	22	03:36	25°♈59'04	22°03'06
	9914 Mar	26	22:47	0°♉	
asc. node	9914 Mar	31	09:12	1°♉33'20	
retrograde	9914 Mar	31	13:44	1°♉33'31	
	9914 Apr	04	18:05	30°℞♈	
evening set	9914 Apr	05	03:31	29°♈41'16	
inferior conj	9914 Apr	10	10:55	23°♈21'13	2°44'41
minimum elong	9914 Apr	10	08:54	23°♈28'16	2°44'07
min. Earth dist.	9914 Apr	10	10:28	23°♈22'47	0.68560 AU
morning rise	9914 Apr	15	14:08	17°♈09'43	
direct	9914 Apr	20	10:12	15°♈06'01	
morning max el	9914 Apr	29	23:25	20°♈42'47	22°19'44
desc. node	9914 May	04	10:47	25°♈41'18	
	9914 May	07	21:15	0°♉	
	9914 May	28	12:16	0°♊	
morning set	9914 Jun	02	10:52	7°♊53'19	
max. Earth dist.	9914 Jun	07	14:13	16°♊23'22	1.40894 AU
superior conj	9914 Jun	15	09:02	29°♊54'16	-1°37'58
minimum elong	9914 Jun	15	15:08	0°♋21'34	1°37'39
	9914 Jun	15	10:19	0°♋	
evening rise	9914 Jun	25	15:55	18°♋51'40	
asc. node	9914 Jun	27	07:54	21°♋58'32	
	9914 Jul	01	17:15	0°♌	
evening max el	9914 Jul	11	16:57	14°♌30'45	18°18'48
retrograde	9914 Jul	19	00:54	18°♌12'06	
evening set	9914 Jul	21	05:56	17°♌52'45	
inferior conj	9914 Jul	28	15:04	13°♌13'49	0°49'41
minimum elong	9914 Jul	28	16:43	13°♌10'22	0°48'47
desc. node	9914 Jul	31	10:01	10°♌53'46	
min. Earth dist.	9914 Jul	31	23:55	10°♌25'51	0.58703 AU
morning rise	9914 Aug	05	00:07	7°♌41'38	
direct	9914 Aug	11	04:59	5°♌58'37	
morning max el	9914 Aug	25	14:13	13°♌43'57	27°21'43
	9914 Sep	07	13:42	0°♍	
asc. node	9914 Sep	23	07:57	27°♍58'24	
	9914 Sep	24	07:33	0°♎	
morning set	9914 Sep	25	12:31	2°♎31'37	
max. Earth dist.	9914 Oct	02	05:01	17°♎06'54	1.31500 AU
superior conj	9914 Oct	02	12:42	17°♎49'39	1°20'39
minimum elong	9914 Oct	02	10:35	17°♎37'50	1°20'27
	9914 Oct	08	01:07	0°♏	
evening rise	9914 Oct	09	06:53	2°♏40'01	
	9914 Oct	23	19:49	0°♐	
desc. node	9914 Oct	27	08:07	5°♐21'41	
evening max el	9914 Nov	07	14:06	18°♐58'55	26°28'42
retrograde	9914 Nov	21	12:18	26°♐05'23	
evening set	9914 Nov	28	03:38	24°♐17'00	
min. Earth dist.	9914 Dec	02	03:38	21°♐41'55	0.59161 AU
inferior conj	9914 Dec	05	07:59	19°♐15'48	-4°25'59
minimum elong	9914 Dec	05	15:48	19°♐00'48	4°23'30
morning rise	9914 Dec	13	06:33	14°♐41'57	
direct	9914 Dec	15	10:37	14°♐25'26	
asc. node	9914 Dec	20	07:49	15°♐54'14	
morning max el	9914 Dec	23	08:31	18°♐18'31	18°20'18
	9914 Dec	31	19:18	0°♑	
morning set	9915 Jan	08	04:13	13°♑32'28	
	9915 Jan	16	21:51	0°♒	
superior conj	9915 Jan	17	09:48	0°♒54'44	0°44'02
minimum elong	9915 Jan	17	12:40	1°♒07'52	0°43'57
desc. node	9915 Jan	23	07:14	11°♒24'58	
max. Earth dist.	9915 Jan	24	23:16	14°♒17'22	1.40858 AU
evening rise	9915 Jan	29	12:22	21°♒54'12	
	9915 Feb	03	13:17	0°♓	
	9915 Feb	24	09:17	0°♈	
evening max el	9915 Mar	04	18:56	9°♈44'30	23°23'03
retrograde	9915 Mar	15	08:51	15°♈59'41	
asc. node	9915 Mar	18	06:21	15°♈19'13	
evening set	9915 Mar	20	10:07	13°♈53'10	
inferior conj	9915 Mar	25	19:48	7°♈26'12	2°13'24
minimum elong	9915 Mar	25	17:35	7°♈33'48	2°12'44
min. Earth dist.	9915 Mar	25	07:15	8°♈09'22	0.68503 AU
morning rise	9915 Mar	31	01:02	1°♈20'30	
	9915 Apr	02	08:04	30°℞♓	
direct	9915 Apr	04	07:33	29°♓38'39	
	9915 Apr	06	09:13	0°♈	
morning max el	9915 Apr	12	16:06	4°♈26'20	20°57'13
desc. node	9915 Apr	21	07:40	14°♈51'20	
	9915 May	01	22:16	0°♉	
morning set	9915 May	12	23:43	16°♉51'38	
max. Earth dist.	9915 May	20	18:29	29°♉15'32	1.42928 AU
	9915 May	21	05:25	0°♊	
superior conj	9915 May	27	18:48	10°♊53'32	-2°01'57
minimum elong	9915 May	28	00:18	11°♊16'51	2°01'57
	9915 Jun	07	17:40	0°♋	
evening rise	9915 Jun	08	13:54	1°♋30'16	
asc. node	9915 Jun	14	04:54	11°♋28'10	
evening max el	9915 Jun	25	04:49	27°♋31'16	18°05'04
	9915 Jun	28	10:18	0°♌	
retrograde	9915 Jul	01	19:57	0°♌55'02	
evening set	9915 Jul	04	08:48	0°♌25'12	
	9915 Jul	05	07:10	30°℞♋	
inferior conj	9915 Jul	11	00:40	25°♋26'26	2°00'14
minimum elong	9915 Jul	11	03:30	25°♋19'32	1°59'02
min. Earth dist.	9915 Jul	14	04:58	22°♋23'04	0.60964 AU
morning rise	9915 Jul	17	19:36	19°♋29'06	
desc. node	9915 Jul	18	07:09	19°♋10'39	
direct	9915 Jul	24	10:28	17°♋16'59	
morning max el	9915 Aug	07	17:06	25°♋16'10	27°54'24
	9915 Aug	12	01:30	0°♌	

	9915 Sep 01 00:33	0°♍	
morning set	9915 Sep 09 16:11	16°♍47'19	
asc. node	9915 Sep 10 04:48	17°♍52'51	
max. Earth dist.	9915 Sep 15 13:19	29°♍22'05	1.31703 AU
	9915 Sep 15 20:13	0°♎	
superior conj	9915 Sep 16 23:27	2°♎30'03	1°03'24
minimum elong	9915 Sep 16 21:14	2°♎17'48	1°03'01
evening rise	9915 Sep 23 17:12	17°♎18'13	
	9915 Sep 29 21:44	0°♏	
desc. node	9915 Oct 14 05:16	23°♏06'31	
	9915 Oct 20 09:50	0°♐	
evening max el	9915 Oct 20 06:44	29°♏52'39	25°10'20
retrograde	9915 Nov 03 03:41	6°♐51'30	
evening set	9915 Nov 08 21:51	5°♐36'10	
min. Earth dist.	9915 Nov 13 18:39	2°♐55'13	0.57166 AU
inferior conj	9915 Nov 16 14:43	1°♐01'51	-5°21'45
minimum elong	9915 Nov 16 20:42	0°♐51'52	5°20'33
	9915 Nov 18 04:18	30°℞♏	
morning rise	9915 Nov 24 21:50	26°♏50'20	
direct	9915 Nov 27 06:53	26°♏33'52	
	9915 Dec 05 09:03	0°♐	
morning max el	9915 Dec 06 09:56	0°♐56'26	19°07'58
asc. node	9915 Dec 07 04:49	1°♐43'37	
morning set	9915 Dec 23 04:13	27°♐55'00	
	9915 Dec 24 05:23	0°♑	
superior conj	9915 Dec 31 10:31	14°♑12'42	1°09'51
minimum elong	9915 Dec 31 13:38	14°♑27'43	1°09'51
max. Earth dist.	9916 Jan 07 05:14	26°♑51'36	1.38668 AU
	9916 Jan 08 23:29	0°♒	
desc. node	9916 Jan 10 04:08	2°♒05'47	
evening rise	9916 Jan 11 00:18	3°♒33'17	
	9916 Jan 27 16:36	0°♓	
evening max el	9916 Feb 15 08:30	23°♓33'04	24°42'15
	9916 Feb 24 16:13	0°♈	
retrograde	9916 Feb 27 00:08	0°♈21'00	
	9916 Feb 29 05:12	30°℞♓	
evening set	9916 Mar 03 13:34	28°♓01'57	
asc. node	9916 Mar 04 03:32	27°♓30'44	
min. Earth dist.	9916 Mar 08 02:47	22°♓52'59	0.68034 AU
inferior conj	9916 Mar 09 03:01	21°♓32'25	1°33'01
minimum elong	9916 Mar 09 01:06	21°♓38'48	1°32'26
morning rise	9916 Mar 14 12:50	15°♓33'54	
direct	9916 Mar 18 06:39	14°♓13'31	
morning max el	9916 Mar 25 16:15	18°♓21'22	19°46'58
	9916 Apr 04 00:32	0°♈	
desc. node	9916 Apr 07 04:30	4°♈32'35	
greatest brilliancy	9916 Apr 07 13:33	5°♈05'37	-0.6m
morning set	9916 Apr 20 22:18	25°♈15'46	
	9916 Apr 23 23:53	0°♉	
max. Earth dist.	9916 May 02 05:45	12°♉55'36	1.44495 AU
superior conj	9916 May 07 04:09	20°♉49'37	-2°12'43
minimum elong	9916 May 07 04:51	20°♉52'29	2°13'01
	9916 May 12 18:48	0°♊	
evening rise	9916 May 20 16:32	13°♊15'51	
	9916 May 30 16:58	0°♋	
asc. node	9916 May 31 01:57	0°♋35'27	
evening max el	9916 Jun 07 18:32	10°♋51'42	18°10'15
retrograde	9916 Jun 14 03:23	14°♋12'39	
evening set	9916 Jun 17 00:03	13°♋29'49	
inferior conj	9916 Jun 23 02:26	8°♋12'35	2°45'52
minimum elong	9916 Jun 23 04:53	8°♋05'53	2°44'58
min. Earth dist.	9916 Jun 25 18:57	5°♋17'01	0.63169 AU
morning rise	9916 Jun 29 08:06	2°♋00'40	
	9916 Jul 02 22:10	30°℞♊	
desc. node	9916 Jul 04 04:16	29°♊38'52	
direct	9916 Jul 06 01:39	29°♊27'10	
	9916 Jul 09 08:47	0°♋	
morning max el	9916 Jul 20 00:55	7°♋29'58	27°48'55
	9916 Aug 06 07:03	0°♌	
	9916 Aug 23 04:58	0°♍	
morning set	9916 Aug 23 13:09	0°♍40'59	
asc. node	9916 Aug 27 01:40	7°♍55'07	
max. Earth dist.	9916 Aug 28 16:30	11°♍20'20	1.32396 AU
superior conj	9916 Aug 31 07:18	16°♍58'07	0°41'16
minimum elong	9916 Aug 31 05:31	16°♍48'27	0°40'49
	9916 Sep 06 06:55	0°♎	
evening rise	9916 Sep 07 04:44	1°♎57'11	
	9916 Sep 22 09:57	0°♏	
desc. node	9916 Sep 30 02:28	9°♏31'30	
evening max el	9916 Sep 30 18:00	10°♏09'51	23°33'15
retrograde	9916 Oct 14 06:13	16°♏54'23	
evening set	9916 Oct 18 15:53	16°♏12'11	
min. Earth dist.	9916 Oct 25 04:06	13°♏07'06	0.55589 AU
inferior conj	9916 Oct 27 01:24	12°♏00'06	-5°42'53
minimum elong	9916 Oct 27 00:51	12°♏00'55	5°42'37
morning rise	9916 Nov 04 11:41	8°♏06'44	
direct	9916 Nov 07 08:13	7°♏46'40	
morning max el	9916 Nov 17 22:55	12°♏47'19	20°18'17
asc. node	9916 Nov 23 01:49	18°♏44'15	
	9916 Nov 30 00:49	0°♐	
morning set	9916 Dec 06 10:26	12°♐33'36	
superior conj	9916 Dec 14 00:35	28°♐08'05	1°27'22
minimum elong	9916 Dec 14 02:57	28°♐19'59	1°27'33
	9916 Dec 14 22:51	0°♑	
max. Earth dist.	9916 Dec 19 12:23	8°♑56'13	1.36537 AU
evening rise	9916 Dec 23 08:10	16°♑04'32	
desc. node	9916 Dec 27 01:06	22°♑40'38	
	9916 Dec 31 08:50	0°♒	
	9917 Jan 21 05:01	0°♓	
evening max el	9917 Jan 27 21:57	7°♓22'41	25°53'32
retrograde	9917 Feb 09 10:37	14°♓32'04	
evening set	9917 Feb 15 12:16	12°♓03'19	
asc. node	9917 Feb 19 00:42	8°♓24'23	
min. Earth dist.	9917 Feb 19 18:47	7°♓29'08	0.67170 AU
inferior conj	9917 Feb 21 06:43	5°♓36'16	0°43'45
minimum elong	9917 Feb 21 05:38	5°♓39'39	0°43'30
morning rise	9917 Feb 26 23:35	29°♒46'51	
	9917 Feb 26 15:29	30°℞♒	
direct	9917 Mar 02 05:57	28°♒45'53	
	9917 Mar 06 00:21	0°♓	
morning max el	9917 Mar 09 00:05	2°♓26'13	18°52'00
desc. node	9917 Mar 25 01:21	24°♓36'53	
	9917 Mar 28 12:43	0°♈	
morning set	9917 Mar 31 06:11	4°♈14'43	
max. Earth dist.	9917 Apr 14 22:50	27°♈10'51	1.45419 AU
superior conj	9917 Apr 16 16:52	29°♈55'49	-2°04'30
minimum elong	9917 Apr 16 10:18	29°♈30'01	2°04'22
	9917 Apr 16 17:56	0°♉	
evening rise	9917 May 01 20:00	24°♉02'37	
	9917 May 05 12:19	0°♊	
asc. node	9917 May 17 23:02	19°♊13'07	
evening max el	9917 May 22 07:04	24°♊24'26	18°33'34
retrograde	9917 May 28 19:07	27°♊56'26	
evening set	9917 May 31 23:34	26°♊59'09	
inferior conj	9917 Jun 06 16:23	21°♊24'55	3°10'50
minimum elong	9917 Jun 06 17:45	21°♊20'50	3°10'17
min. Earth dist.	9917 Jun 08 18:07	18°♊55'22	0.65104 AU
morning rise	9917 Jun 12 11:04	15°♊06'20	

direct	9917 Jun 19 00:40	12°♊22'32	
desc. node	9917 Jun 21 01:22	12°♊36'23	
morning max el	9917 Jul 02 11:15	20°♊17'21	27°09'20
	9917 Jul 10 19:09	0°♋	
	9917 Jul 30 09:16	0°♌	
morning set	9917 Aug 07 00:40	14°♌05'08	
max. Earth dist.	9917 Aug 11 11:14	22°♌54'48	1.33590 AU
asc. node	9917 Aug 13 22:33	28°♌00'49	
	9917 Aug 14 21:18	0°♍	
superior conj	9917 Aug 15 10:07	1°♍07'29	0°14'42
minimum elong	9917 Aug 15 09:22	1°♍03'34	0°14'20
behind sun begin	9917 Aug 15 06:50	0°♍50'11	
behind sun end	9917 Aug 15 11:55	1°♍16'59	
evening rise	9917 Aug 22 15:33	16°♍31'02	
	9917 Aug 29 08:14	0°♎	
evening max el	9917 Sep 12 07:32	20°♎21'06	21°54'15
desc. node	9917 Sep 16 23:42	24°♎07'34	
retrograde	9917 Sep 24 21:24	26°♎36'30	
evening set	9917 Sep 27 20:26	26°♎16'53	
inferior conj	9917 Oct 06 21:01	22°♎18'15	-5°10'43
minimum elong	9917 Oct 06 12:58	22°♎29'30	5°09'08
min. Earth dist.	9917 Oct 06 11:27	22°♎31'37	0.54727 AU
morning rise	9917 Oct 15 06:51	18°♎30'38	
direct	9917 Oct 18 19:17	18°♎03'29	
morning max el	9917 Oct 30 22:30	23°♎47'41	21°49'49
	9917 Nov 05 10:08	0°♏	
asc. node	9917 Nov 09 22:47	6°♏39'54	
morning set	9917 Nov 20 20:19	27°♏20'07	
	9917 Nov 22 02:41	0°♐	
superior conj	9917 Nov 28 00:03	12°♐28'54	1°37'16
minimum elong	9917 Nov 28 01:14	12°♐35'06	1°37'35
max. Earth dist.	9917 Dec 02 01:11	20°♐49'50	1.34664 AU
evening rise	9917 Dec 06 08:15	29°♐17'23	
	9917 Dec 06 17:11	0°♑	
desc. node	9917 Dec 13 22:06	13°♑04'13	
	9917 Dec 24 12:46	0°♒	
evening max el	9918 Jan 10 11:26	21°♒05'08	26°49'40
retrograde	9918 Jan 23 15:28	28°♒25'13	
evening set	9918 Jan 30 04:19	25°♒51'01	
min. Earth dist.	9918 Feb 03 04:57	21°♒51'16	0.65926 AU
inferior conj	9918 Feb 05 04:42	19°♒32'15	-0°14'15
minimum elong	9918 Feb 05 05:06	19°♒31'07	0°13'48
transit middle	9918 Feb 05 05:06	19°♒31'07	0°13'48
transit begin	9918 Feb 05 03:35	19°♒35'31	
transit end	9918 Feb 05 06:36	19°♒26'43	
asc. node	9918 Feb 05 21:54	18°♒42'26	
morning rise	9918 Feb 11 07:00	13°♒54'15	
direct	9918 Feb 14 03:22	13°♒09'37	
morning max el	9918 Feb 20 13:53	16°♒34'51	18°13'28
	9918 Mar 02 13:30	0°♓	
morning set	9918 Mar 11 16:31	14°♓34'31	
desc. node	9918 Mar 11 22:10	14°♓57'17	
	9918 Mar 21 08:05	0°♈	
superior conj	9918 Mar 26 22:49	8°♈50'43	-1°36'41
minimum elong	9918 Mar 26 13:17	8°♈13'18	1°35'45
max. Earth dist.	9918 Mar 28 18:43	11°♈42'40	1.45600 AU
	9918 Apr 09 12:04	0°♉	
evening rise	9918 Apr 12 00:32	3°♉55'37	
greatest brilliancy	9918 Apr 23 13:15	21°♉46'24	-0.7m
	9918 Apr 29 03:42	0°♊	
asc. node	9918 May 04 20:10	7°♊11'35	
evening max el	9918 May 05 15:58	8°♊03'24	19°14'09
retrograde	9918 May 12 15:40	11°♊59'05	
evening set	9918 May 16 04:15	10°♊46'38	
inferior conj	9918 May 21 14:59	4°♊57'05	3°19'20
minimum elong	9918 May 21 15:07	4°♊56'39	3°18'59
min. Earth dist.	9918 May 23 01:34	3°♊05'03	0.66642 AU
	9918 May 25 15:43	30°℞♉	
morning rise	9918 May 27 01:33	28°♉36'58	
direct	9918 Jun 02 06:24	25°♉54'00	
desc. node	9918 Jun 07 22:24	27°♉42'11	
	9918 Jun 11 03:59	0°♊	
morning max el	9918 Jun 14 21:54	3°♊27'15	26°03'21
	9918 Jul 05 01:59	0°♋	
morning set	9918 Jul 20 23:12	26°♋50'49	
	9918 Jul 22 15:44	0°♌	
max. Earth dist.	9918 Jul 24 19:32	4°♌07'14	1.35263 AU
superior conj	9918 Jul 30 05:24	14°♌51'41	-0°15'35
minimum elong	9918 Jul 30 06:20	14°♌56'24	0°15'43
behind sun begin	9918 Jul 30 05:00	14°♌49'37	
behind sun end	9918 Jul 30 07:40	15°♌03'11	
asc. node	9918 Jul 31 19:27	18°♌06'16	
evening rise	9918 Aug 06 23:39	0°♍54'03	
	9918 Aug 06 13:11	0°♍	
	9918 Aug 24 08:04	0°♎	
evening max el	9918 Aug 25 07:49	1°♎01'25	20°27'54
desc. node	9918 Sep 03 20:55	6°♎25'06	
retrograde	9918 Sep 05 09:46	6°♎31'14	
evening set	9918 Sep 07 10:50	6°♎20'48	
inferior conj	9918 Sep 16 13:59	2°♎23'40	-3°45'02
minimum elong	9918 Sep 16 04:34	2°♎37'21	3°42'04
min. Earth dist.	9918 Sep 17 20:15	1°♎39'40	0.54779 AU
	9918 Sep 20 20:55	30°℞♍	
morning rise	9918 Sep 24 21:48	28°♍20'46	
direct	9918 Sep 29 03:58	27°♍41'52	
	9918 Oct 07 01:08	0°♎	
morning max el	9918 Oct 12 12:39	4°♎10'10	23°35'01
asc. node	9918 Oct 27 19:44	25°♎17'36	
	9918 Oct 30 08:31	0°♏	
morning set	9918 Nov 05 07:56	12°♏09'04	
superior conj	9918 Nov 12 05:52	27°♏06'25	1°40'18
minimum elong	9918 Nov 12 05:49	27°♏06'10	1°40'37
	9918 Nov 13 14:07	0°♐	
max. Earth dist.	9918 Nov 14 21:50	2°♐49'00	1.33185 AU
evening rise	9918 Nov 19 20:54	13°♐02'57	
	9918 Nov 28 22:32	0°♑	
desc. node	9918 Nov 30 19:09	3°♑11'02	
	9918 Dec 19 16:33	0°♒	
evening max el	9918 Dec 24 00:04	4°♒30'11	27°23'30
retrograde	9919 Jan 06 14:10	11°♒52'17	
evening set	9919 Jan 13 11:30	9°♒19'11	
min. Earth dist.	9919 Jan 17 07:13	5°♒51'54	0.64332 AU
inferior conj	9919 Jan 19 18:32	3°♒14'50	-1°20'14
minimum elong	9919 Jan 19 21:01	3°♒08'14	1°18'50
	9919 Jan 23 01:36	30°℞♑	
asc. node	9919 Jan 23 19:05	29°♑24'07	
morning rise	9919 Jan 26 08:20	27°♑50'55	
direct	9919 Jan 28 20:29	27°♑18'56	
	9919 Feb 03 13:56	0°♒	
morning max el	9919 Feb 04 06:59	0°♒40'02	17°51'53
morning set	9919 Feb 21 07:32	26°♒18'18	
	9919 Feb 23 12:14	0°♓	
desc. node	9919 Feb 26 18:58	5°♓28'57	
superior conj	9919 Mar 06 16:40	18°♓24'25	-0°56'12
minimum elong	9919 Mar 06 10:27	17°♓59'24	0°55'15
max. Earth dist.	9919 Mar 11 14:00	26°♓11'48	1.45039 AU
	9919 Mar 14 00:01	0°♈	
evening rise	9919 Mar 22 13:57	13°♈17'50	

	9919 Apr 02	14:37	0°♉	
greatest brilliancy	9919 Apr 06	13:09	5°♉48'05	-0.6m
evening max el	9919 Apr 18	19:39	21°♉44'17	20°10'24
asc. node	9919 Apr 21	17:20	24°♉18'11	
retrograde	9919 Apr 26	14:14	26°♉14'03	
evening set	9919 Apr 30	11:43	24°♉46'11	
inferior conj	9919 May 05	19:19	18°♉43'03	3°14'31
minimum elong	9919 May 05	18:22	18°♉46'16	3°14'09
min. Earth dist.	9919 May 06	15:32	17°♉34'17	0.67739 AU
morning rise	9919 May 11	00:45	12°♉24'42	
direct	9919 May 16	17:56	9°♉51'55	
desc. node	9919 May 25	19:22	14°♉25'23	
morning max el	9919 May 28	07:33	16°♉48'17	24°40'24
	9919 Jun 08	06:29	0°♊	
	9919 Jun 28	01:34	0°♋	
morning set	9919 Jul 03	04:06	8°♋45'11	
max. Earth dist.	9919 Jul 06	18:43	15°♋13'00	1.37328 AU
superior conj	9919 Jul 13	13:55	28°♋01'55	-0°48'10
minimum elong	9919 Jul 13	17:01	28°♋16'58	0°47'59
	9919 Jul 14	14:08	0°♌	
asc. node	9919 Jul 18	16:21	8°♌07'00	
evening rise	9919 Jul 22	02:31	14°♌58'42	
	9919 Jul 29	23:57	0°♍	
evening max el	9919 Aug 07	21:47	12°♍26'52	19°21'15
retrograde	9919 Aug 17	07:03	17°♍06'11	
evening set	9919 Aug 19	03:13	16°♍56'12	
desc. node	9919 Aug 21	18:09	16°♍10'17	
inferior conj	9919 Aug 27	18:31	12°♍48'17	-1°51'43
minimum elong	9919 Aug 27	13:32	12°♍56'26	1°49'56
min. Earth dist.	9919 Aug 30	08:36	11°♍07'04	0.55765 AU
morning rise	9919 Sep 04	21:08	8°♍12'37	
direct	9919 Sep 09	22:52	7°♍14'02	
morning max el	9919 Sep 24	00:30	14°♍20'11	25°19'27
	9919 Oct 06	09:55	0°♎	
asc. node	9919 Oct 14	16:37	14°♎26'16	
morning set	9919 Oct 20	19:30	26°♎54'58	
	9919 Oct 22	05:52	0°♏	
superior conj	9919 Oct 27	15:35	11°♏52'45	1°37'07
minimum elong	9919 Oct 27	14:29	11°♏46'40	1°37'18
max. Earth dist.	9919 Oct 29	01:40	15°♏00'00	1.32158 AU
evening rise	9919 Nov 03	18:51	27°♏12'31	
	9919 Nov 05	03:34	0°♐	
desc. node	9919 Nov 17	16:14	22°♐53'48	
	9919 Nov 22	06:01	0°♑	
evening max el	9919 Dec 06	10:13	17°♑26'25	27°28'38
retrograde	9919 Dec 20	05:56	24°♑44'07	
evening set	9919 Dec 27	06:57	22°♑20'51	
min. Earth dist.	9919 Dec 30	23:54	19°♑21'26	0.62444 AU
inferior conj	9920 Jan 02	21:18	16°♑37'17	-2°32'17
minimum elong	9920 Jan 03	02:19	16°♑25'24	2°29'56
morning rise	9920 Jan 10	00:02	11°♑30'17	
asc. node	9920 Jan 10	16:12	11°♑18'37	
direct	9920 Jan 12	06:18	11°♑07'06	
morning max el	9920 Jan 19	00:16	14°♑33'43	17°47'54
	9920 Jan 29	16:44	0°♒	
morning set	9920 Feb 03	21:59	9°♒09'27	
desc. node	9920 Feb 13	15:46	26°♒08'06	
superior conj	9920 Feb 15	09:59	29°♒06'29	-0°13'09
minimum elong	9920 Feb 15	08:42	29°♒01'07	0°12'43
behind sun begin	9920 Feb 15	03:12	28°♒37'58	
behind sun end	9920 Feb 15	14:12	29°♒24'15	
	9920 Feb 15	22:44	0°♓	
max. Earth dist.	9920 Feb 22	06:27	10°♓23'24	1.43809 AU
evening rise	9920 Mar 01	03:05	22°♓48'13	
	9920 Mar 05	19:47	0°♈	
	9920 Mar 26	22:58	0°♉	
evening max el	9920 Mar 31	17:49	5°♉26'48	21°19'24
asc. node	9920 Apr 07	14:31	10°♉18'39	
retrograde	9920 Apr 09	12:39	10°♉36'59	
evening set	9920 Apr 13	20:06	8°♉53'43	
inferior conj	9920 Apr 19	03:00	2°♉39'14	2°58'30
minimum elong	9920 Apr 19	01:16	2°♉45'14	2°58'01
min. Earth dist.	9920 Apr 19	09:54	2°♉15'12	0.68387 AU
	9920 Apr 21	01:36	30°℞♈	
morning rise	9920 Apr 24	06:12	26°♈24'41	
direct	9920 Apr 29	10:12	24°♈08'56	
	9920 May 09	10:50	0°♉	
morning max el	9920 May 09	17:16	0°♉16'07	23°10'39
desc. node	9920 May 11	16:15	2°♉20'13	
	9920 Jun 01	02:39	0°♊	
morning set	9920 Jun 13	10:05	19°♊34'54	
max. Earth dist.	9920 Jun 17	15:03	26°♊43'49	1.39600 AU
	9920 Jun 19	12:03	0°♋	
superior conj	9920 Jun 25	07:52	10°♋29'34	-1°20'41
minimum elong	9920 Jun 25	13:08	10°♋53'54	1°20'19
evening rise	9920 Jul 04	21:15	28°♋37'32	
asc. node	9920 Jul 04	13:18	27°♋59'22	
	9920 Jul 05	14:26	0°♌	
evening max el	9920 Jul 20	23:22	24°♌36'34	18°35'42
retrograde	9920 Jul 28	21:57	28°♌34'25	
evening set	9920 Jul 30	22:56	28°♌19'35	
inferior conj	9920 Aug 07	19:17	23°♌52'46	-0°03'01
minimum elong	9920 Aug 07	19:09	23°♌53'01	0°03'15
transit middle	9920 Aug 07	19:09	23°♌53'01	0°03'15
transit begin	9920 Aug 07	15:37	23°♌59'47	
transit end	9920 Aug 07	22:42	23°♌46'14	
desc. node	9920 Aug 07	15:20	24°♌00'19	
min. Earth dist.	9920 Aug 11	01:47	21°♌23'58	0.57500 AU
morning rise	9920 Aug 15	11:52	18°♌40'01	
direct	9920 Aug 21	08:24	17°♌14'07	
morning max el	9920 Sep 04	16:22	24°♌47'28	26°45'46
	9920 Sep 09	11:40	0°♍	
	9920 Sep 28	13:18	0°♎	
asc. node	9920 Sep 30	13:27	3°♎57'44	
morning set	9920 Oct 04	05:24	11°♎33'07	
superior conj	9920 Oct 11	03:08	26°♎41'22	1°28'13
minimum elong	9920 Oct 11	01:17	26°♎31'01	1°28'11
max. Earth dist.	9920 Oct 11	10:11	27°♎20'32	1.31607 AU
	9920 Oct 12	14:54	0°♏	
evening rise	9920 Oct 17	23:23	11°♏38'34	
	9920 Oct 27	07:48	0°♐	
desc. node	9920 Nov 03	13:22	12°♐02'20	
evening max el	9920 Nov 17	15:23	29°♐41'00	27°00'26
	9920 Nov 17	23:30	0°♑	
retrograde	9920 Dec 01	13:19	6°♑50'59	
evening set	9920 Dec 08	10:53	4°♑47'27	
min. Earth dist.	9920 Dec 12	05:58	2°♑07'07	0.60373 AU
	9920 Dec 14	19:21	30°℞♐	
inferior conj	9920 Dec 15	09:37	29°♐30'05	-3°46'01
minimum elong	9920 Dec 15	16:51	29°♐15'01	3°43'17
morning rise	9920 Dec 23	01:23	24°♐43'02	
direct	9920 Dec 25	05:01	24°♐25'01	
asc. node	9920 Dec 27	13:16	24°♐47'19	
morning max el	9921 Jan 01	14:17	28°♐06'01	18°02'39
	9921 Jan 03	08:28	0°♑	
morning set	9921 Jan 17	05:22	22°♑47'51	
	9921 Jan 21	02:38	0°♒	
superior conj	9921 Jan 27	04:05	10°♒58'28	0°25'19

minimum elong	9921 Jan 27	06:05	11°♒07'17	0°25'21	
desc. node	9921 Jan 30	12:37	16°♒50'40		
max. Earth dist.	9921 Feb 03	18:50	24°♒04'13	1.42046 AU	
	9921 Feb 07	09:22	0°♓		
evening rise	9921 Feb 09	05:53	2°♓59'14		
	9921 Feb 27	04:54	0°♈		
evening max el	9921 Mar 14	11:17	19°♈10'57	22°36'53	
retrograde	9921 Mar 24	09:13	25°♈02'52		
asc. node	9921 Mar 25	11:42	24°♈56'53		
evening set	9921 Mar 29	03:45	23°♈04'33		
inferior conj	9921 Apr 03	11:57	16°♈41'23	2°32'33	
minimum elong	9921 Apr 03	09:48	16°♈48'51	2°31'56	
min. Earth dist.	9921 Apr 03	06:21	17°♈00'49	0.68590 AU	
morning rise	9921 Apr 08	15:42	10°♈32'11		
direct	9921 Apr 13	06:04	8°♈37'26		
morning max el	9921 Apr 22	06:20	13°♈52'11	21°43'23	
desc. node	9921 Apr 28	13:07	21°♈06'34		
	9921 May 05	03:53	0°♉		
morning set	9921 May 24	13:17	29°♉10'32		
	9921 May 25	01:40	0°♊		
max. Earth dist.	9921 May 30	15:38	9°♊05'15	1.41805 AU	
superior conj	9921 Jun 07	06:38	22°♊03'37	-1°49'20	
minimum elong	9921 Jun 07	12:54	22°♊30'59	1°49'07	
	9921 Jun 11	18:10	0°♋		
evening rise	9921 Jun 18	04:02	11°♋40'55		
asc. node	9921 Jun 21	10:18	17°♋38'44		
	9921 Jun 28	15:38	0°♌		
evening max el	9921 Jul 04	08:36	7°♌21'18	18°10'38	
retrograde	9921 Jul 11	07:49	10°♌53'02		
evening set	9921 Jul 13	16:18	10°♌29'26		
inferior conj	9921 Jul 20	17:39	5°♌41'45	1°22'52	
minimum elong	9921 Jul 20	20:04	5°♌36'21	1°21'43	
min. Earth dist.	9921 Jul 24	01:42	2°♌44'37	0.59657 AU	
desc. node	9921 Jul 25	12:28	1°♌34'21		
morning rise	9921 Jul 27	20:47	29°♋57'55		
	9921 Jul 27	19:23	30°℞♋		
direct	9921 Aug 03	06:55	28°♋02'06		
	9921 Aug 10	02:19	0°♌		
morning max el	9921 Aug 17	15:15	5°♌53'30	27°40'22	
	9921 Sep 04	15:28	0°♍		
asc. node	9921 Sep 17	10:17	23°♍45'39		
morning set	9921 Sep 18	11:56	25°♍59'01		
	9921 Sep 20	09:23	0°♎		
max. Earth dist.	9921 Sep 24	19:52	9°♎42'09	1.31533 AU	
superior conj	9921 Sep 25	14:44	11°♎26'47	1°13'57	
minimum elong	9921 Sep 25	12:30	11°♎14'25	1°13'41	
evening rise	9921 Oct 02	08:14	26°♎14'44		
	9921 Oct 04	02:46	0°♏		
desc. node	9921 Oct 21	10:32	0°♐23'21		
	9921 Oct 21	03:50	0°♐		
evening max el	9921 Oct 30	12:56	11°♐04'53	25°58'36	
retrograde	9921 Nov 13	10:41	18°♐07'24		
evening set	9921 Nov 19	18:44	16°♐32'33		
min. Earth dist.	9921 Nov 24	01:39	13°♐57'21	0.58289 AU	
inferior conj	9921 Nov 27	03:59	11°♐43'31	-4°52'30	
minimum elong	9921 Nov 27	11:33	11°♐29'50	4°50'28	
morning rise	9921 Dec 05	06:45	7°♐19'01		
direct	9921 Dec 07	12:22	7°♐02'48		
asc. node	9921 Dec 14	10:16	9°♐49'12		
morning max el	9921 Dec 15	21:23	11°♐07'05	18°37'48	
	9921 Dec 28	09:09	0°♑		
morning set	9922 Jan 01	00:30	6°♑58'13		
superior conj	9922 Jan 09	19:10	23°♑49'41	0°56'01	
minimum elong	9922 Jan 09	22:18	24°♑04'23	0°55'57	

	9922 Jan 13	03:32	0°♒		
max. Earth dist.	9922 Jan 17	02:59	7°♒04'47	1.39944 AU	
desc. node	9922 Jan 17	09:32	7°♒33'21		
evening rise	9922 Jan 21	05:26	14°♒05'56		
	9922 Jan 31	03:42	0°♓		
	9922 Feb 22	06:20	0°♈		
evening max el	9922 Feb 25	01:42	2°♈57'50	23°57'10	
retrograde	9922 Mar 08	02:40	9°♈27'28		
asc. node	9922 Mar 12	08:53	8°♈02'00		
evening set	9922 Mar 13	09:11	7°♈15'14		
min. Earth dist.	9922 Mar 18	02:46	1°♈46'29	0.68362 AU	
inferior conj	9922 Mar 18	20:20	0°♈46'48	1°57'21	
minimum elong	9922 Mar 18	18:12	0°♈54'07	1°56'41	
	9922 Mar 19	10:10	30°℞♓		
morning rise	9922 Mar 24	03:14	24°♓44'11		
direct	9922 Mar 28	04:17	23°♓11'37		
morning max el	9922 Apr 05	02:03	27°♓40'22	20°25'37	
	9922 Apr 07	06:29	0°♈		
desc. node	9922 Apr 15	09:59	10°♈30'39		
	9922 Apr 28	15:53	0°♉		
morning set	9922 May 03	17:40	7°♉46'51		
max. Earth dist.	9922 May 12	23:28	22°♉20'48	1.43666 AU	
	9922 May 17	16:27	0°♊		
superior conj	9922 May 19	06:02	2°♊35'06	-2°08'31	
minimum elong	9922 May 19	10:03	2°♊51'49	2°08'43	
evening rise	9922 May 31	18:21	23°♊57'53		
	9922 Jun 04	05:21	0°♋		
asc. node	9922 Jun 08	07:20	6°♋59'26		
evening max el	9922 Jun 17	21:35	20°♋30'39	18°05'00	
retrograde	9922 Jun 24	08:50	23°♋51'43		
evening set	9922 Jun 27	01:02	23°♋16'31		
inferior conj	9922 Jul 03	10:38	18°♋09'22	2°22'26	
minimum elong	9922 Jul 03	13:26	18°♋02'10	2°21'19	
min. Earth dist.	9922 Jul 06	10:22	15°♋06'57	0.61915 AU	
morning rise	9922 Jul 09	23:42	12°♋04'36		
desc. node	9922 Jul 12	09:37	10°♋40'17		
direct	9922 Jul 16	16:23	9°♋42'35		
morning max el	9922 Jul 30	20:40	17°♋44'16	27°56'49	
	9922 Aug 10	02:15	0°♌		
	9922 Aug 28	10:10	0°♍		
morning set	9922 Sep 02	13:04	10°♍06'13		
asc. node	9922 Sep 04	07:08	13°♍43'52		
max. Earth dist.	9922 Sep 08	02:43	21°♍52'33	1.31938 AU	
superior conj	9922 Sep 10	00:28	26°♍02'24	0°54'37	
minimum elong	9922 Sep 09	22:21	25°♍50'52	0°54'10	
	9922 Sep 11	19:39	0°♎		
evening rise	9922 Sep 16	19:18	10°♎53'57		
	9922 Sep 26	10:29	0°♏		
desc. node	9922 Oct 08	07:45	17°♏37'29		
evening max el	9922 Oct 12	02:28	21°♏39'35	24°30'18	
retrograde	9922 Oct 25	20:38	28°♏33'47		
evening set	9922 Oct 31	02:25	27°♏32'50		
min. Earth dist.	9922 Nov 05	13:29	24°♏44'01	0.56433 AU	
inferior conj	9922 Nov 08	01:58	23°♏08'48	-5°36'11	
minimum elong	9922 Nov 08	05:42	23°♏02'54	5°35'34	
morning rise	9922 Nov 16	11:10	19°♏06'19		
direct	9922 Nov 19	00:29	18°♏48'44		
morning max el	9922 Nov 28	17:53	23°♏25'56	19°35'06	
asc. node	9922 Dec 01	07:16	26°♏10'39		
	9922 Dec 04	04:53	0°♐		
morning set	9922 Dec 16	03:29	21°♐28'31		
	9922 Dec 20	08:48	0°♑		
superior conj	9922 Dec 24	02:08	7°♑25'14	1°18'15	
minimum elong	9922 Dec 24	05:01	7°♑39'23	1°18'19	

max. Earth dist.	9922 Dec 30 08:55	19°♑24'34	1.37743 AU
evening rise	9923 Jan 03 02:12	26°♑07'45	
desc. node	9923 Jan 04 06:29	28°♑11'58	
	9923 Jan 05 07:24	0°♒	
	9923 Jan 24 17:01	0°♓	
evening max el	9923 Feb 07 14:56	16°♓46'47	25°13'51
retrograde	9923 Feb 19 16:06	23°♓45'31	
evening set	9923 Feb 25 10:52	21°♓21'35	
asc. node	9923 Feb 27 06:05	19°♓36'59	
min. Earth dist.	9923 Mar 01 21:00	16°♓27'40	0.67716 AU
inferior conj	9923 Mar 03 02:19	14°♓52'22	1°13'11
minimum elong	9923 Mar 03 00:41	14°♓57'41	1°12'42
morning rise	9923 Mar 08 14:52	8°♓57'44	
direct	9923 Mar 12 03:35	7°♓46'07	
morning max el	9923 Mar 19 05:44	11°♓40'42	19°21'38
greatest brilliancy	9923 Apr 01 01:12	28°♓32'00	-0.7m
desc. node	9923 Apr 02 06:50	0°♈22'30	
	9923 Apr 02 00:49	0°♈	
morning set	9923 Apr 12 17:18	16°♈17'46	
	9923 Apr 21 13:13	0°♉	
max. Earth dist.	9923 Apr 25 13:35	6°♉18'07	1.44969 AU
superior conj	9923 Apr 29 05:34	12°♉06'38	-2°11'46
minimum elong	9923 Apr 29 03:08	11°♉57'00	2°11'59
	9923 May 10 06:26	0°♊	
evening rise	9923 May 13 11:32	5°♊19'08	
asc. node	9923 May 26 04:25	25°♊55'18	
	9923 May 29 01:56	0°♋	
evening max el	9923 Jun 01 11:05	3°♋56'46	18°17'59
retrograde	9923 Jun 07 20:23	7°♋21'13	
evening set	9923 Jun 10 20:14	6°♋32'31	
inferior conj	9923 Jun 16 18:06	1°♋07'49	2°58'42
minimum elong	9923 Jun 16 20:07	1°♋02'00	2°57'58
	9923 Jun 17 17:40	30℞♊	
min. Earth dist.	9923 Jun 19 04:30	28°♊21'16	0.64024 AU
morning rise	9923 Jun 22 18:43	24°♊51'56	
direct	9923 Jun 29 11:08	22°♊12'36	
desc. node	9923 Jun 29 06:43	22°♊12'43	
	9923 Jul 13 00:20	0°♋	
morning max el	9923 Jul 13 06:07	0°♋14'29	27°35'57
	9923 Aug 04 02:59	0°♌	
morning set	9923 Aug 17 06:24	23°♌48'20	
	9923 Aug 20 08:05	0°♍	
max. Earth dist.	9923 Aug 22 02:41	3°♍40'56	1.32838 AU
asc. node	9923 Aug 22 04:02	3°♍47'59	
superior conj	9923 Aug 25 06:26	10°♍22'54	0°30'32
minimum elong	9923 Aug 25 05:01	10°♍15'17	0°30'04
evening rise	9923 Sep 01 06:45	25°♍30'55	
	9923 Sep 03 09:51	0°♎	
	9923 Sep 21 19:11	0°♏	
evening max el	9923 Sep 23 13:21	1°♏48'49	22°50'22
desc. node	9923 Sep 25 04:58	3°♏19'44	
retrograde	9923 Oct 06 18:24	8°♏23'58	
evening set	9923 Oct 10 12:27	7°♏53'09	
min. Earth dist.	9923 Oct 17 21:44	4°♏32'33	0.55118 AU
inferior conj	9923 Oct 19 05:09	3°♏47'31	-5°36'24
minimum elong	9923 Oct 19 01:04	3°♏53'22	5°35'52
morning rise	9923 Oct 27 15:32	29°♎58'44	
	9923 Oct 27 13:25	30℞♎	
direct	9923 Oct 30 18:09	29°♎36'18	
	9923 Nov 02 20:37	0°♏	
morning max el	9923 Nov 11 01:09	4°♏55'15	20°54'53
asc. node	9923 Nov 18 04:15	13°♏36'06	
	9923 Nov 27 10:42	0°♐	
morning set	9923 Nov 30 11:29	6°♐10'43	

superior conj	9923 Dec 07 20:36	21°♐32'33	1°32'27
minimum elong	9923 Dec 07 22:29	21°♐42'13	1°32'42
	9923 Dec 12 01:18	0°♑	
max. Earth dist.	9923 Dec 12 17:34	1°♑19'56	1.35697 AU
evening rise	9923 Dec 16 17:24	8°♑57'37	
desc. node	9923 Dec 22 03:28	18°♑42'24	
	9923 Dec 28 22:50	0°♒	
	9924 Jan 20 14:34	0°♓	
evening max el	9924 Jan 21 04:15	0°♓33'37	26°19'42
retrograde	9924 Feb 03 00:29	7°♓49'42	
evening set	9924 Feb 09 07:01	5°♓17'54	
min. Earth dist.	9924 Feb 13 10:52	0°♓58'23	0.66680 AU
asc. node	9924 Feb 14 03:17	0°♓08'38	
	9924 Feb 14 06:06	30℞♒	
inferior conj	9924 Feb 15 03:52	28°♒53'19	0°20'09
minimum elong	9924 Feb 15 03:20	28°♒54'57	0°20'11
morning rise	9924 Feb 21 00:28	23°♒08'27	
direct	9924 Feb 24 02:16	22°♒15'03	
morning max el	9924 Mar 01 16:24	25°♒47'54	18°33'30
	9924 Mar 05 08:30	0°♓	
desc. node	9924 Mar 19 03:38	20°♓33'59	
morning set	9924 Mar 22 11:10	25°♓47'30	
	9924 Mar 25 03:15	0°♈	
superior conj	9924 Apr 07 13:12	21°♈02'06	-1°54'51
minimum elong	9924 Apr 07 04:30	20°♈28'04	1°54'20
max. Earth dist.	9924 Apr 07 07:37	20°♈40'13	1.45583 AU
	9924 Apr 13 06:33	0°♉	
evening rise	9924 Apr 23 04:47	15°♉40'49	
greatest brilliancy	9924 May 01 19:12	29°♉19'21	-0.8m
	9924 May 02 05:35	0°♊	
asc. node	9924 May 12 01:33	14°♊17'32	
evening max el	9924 May 14 22:19	17°♊32'27	18°48'50
retrograde	9924 May 21 14:28	21°♊13'10	
evening set	9924 May 24 22:14	20°♊09'40	
inferior conj	9924 May 30 12:06	14°♊28'59	3°16'12
minimum elong	9924 May 30 12:56	14°♊26'23	3°15'46
min. Earth dist.	9924 Jun 01 07:27	12°♊14'00	0.65811 AU
morning rise	9924 Jun 05 02:57	8°♊09'07	
direct	9924 Jun 11 13:23	5°♊24'01	
desc. node	9924 Jun 15 03:46	6°♊07'50	
morning max el	9924 Jun 24 16:42	13°♊12'07	26°43'51
	9924 Jul 08 05:43	0°♋	
	9924 Jul 26 19:05	0°♌	
morning set	9924 Jul 30 12:51	6°♌56'49	
max. Earth dist.	9924 Aug 03 16:36	15°♌02'27	1.34240 AU
superior conj	9924 Aug 08 06:21	24°♌21'55	0°02'15
minimum elong	9924 Aug 08 06:15	24°♌21'21	0°01'58
behind sun begin	9924 Aug 08 00:31	23°♌51'33	
behind sun end	9924 Aug 08 11:59	24°♌51'13	
asc. node	9924 Aug 08 00:56	23°♌53'43	
	9924 Aug 10 22:52	0°♍	
evening rise	9924 Aug 15 16:37	10°♍00'02	
	9924 Aug 26 03:20	0°♎	
evening max el	9924 Sep 04 06:46	12°♎09'07	21°15'31
desc. node	9924 Sep 11 02:10	16°♎59'51	
retrograde	9924 Sep 16 06:50	18°♎06'20	
evening set	9924 Sep 18 18:09	17°♎52'10	
inferior conj	9924 Sep 27 21:50	13°♎56'14	-4°39'55
minimum elong	9924 Sep 27 12:14	14°♎09'43	4°37'30
min. Earth dist.	9924 Sep 28 05:43	13°♎45'10	0.54625 AU
morning rise	9924 Oct 06 06:55	10°♎04'23	
direct	9924 Oct 10 02:42	9°♎32'51	
morning max el	9924 Oct 22 19:55	15°♎36'56	22°33'35
	9924 Nov 02 22:34	0°♏	
asc. node	9924 Nov 04 01:11	1°♏51'03	

morning set	9924 Nov 13	22:20	20°♏58'58	
	9924 Nov 18	03:33	0°♐	
superior conj	9924 Nov 20	23:07	6°♐01'39	1°39'20
minimum elong	9924 Nov 20	23:46	6°♐05'08	1°39'41
max. Earth dist.	9924 Nov 24	09:32	13°♐14'17	1.33982 AU
evening rise	9924 Nov 28	23:18	22°♐26'08	
	9924 Dec 02	22:55	0°♑	
desc. node	9924 Dec 08	00:28	8°♑59'55	
	9924 Dec 21	16:32	0°♒	
evening max el	9925 Jan 02	17:44	14°♒11'09	27°07'16
retrograde	9925 Jan 16	02:56	21°♒33'01	
evening set	9925 Jan 22	19:38	18°♒58'42	
min. Earth dist.	9925 Jan 26	18:06	15°♒12'46	0.65287 AU
inferior conj	9925 Jan 28	22:45	12°♒45'05	-0°41'19
minimum elong	9925 Jan 28	23:58	12°♒41'41	0°40'28
asc. node	9925 Jan 31	00:26	10°♒30'12	
morning rise	9925 Feb 04	05:41	7°♒12'24	
direct	9925 Feb 06	22:18	6°♒33'37	
morning max el	9925 Feb 13	07:55	9°♒56'03	18°02'05
	9925 Feb 27	07:23	0°♓	
morning set	9925 Mar 03	10:11	6°♓44'54	
desc. node	9925 Mar 06	00:26	10°♓59'48	
superior conj	9925 Mar 17	22:10	0°♈08'14	-1°20'26
minimum elong	9925 Mar 17	13:29	29°♓33'54	1°19'24
	9925 Mar 17	20:05	0°♈	
max. Earth dist.	9925 Mar 21	03:28	5°♈12'35	1.45457 AU
evening rise	9925 Apr 03	01:25	25°♈16'37	
	9925 Apr 06	02:58	0°♉	
greatest brilliancy	9925 Apr 16	12:09	15°♉46'49	-0.7m
	9925 Apr 27	01:42	0°♊	
evening max el	9925 Apr 28	05:13	1°♊12'50	19°36'19
asc. node	9925 Apr 28	22:42	1°♊55'33	
retrograde	9925 May 05	12:02	5°♊21'27	
evening set	9925 May 09	04:21	4°♊02'28	
	9925 May 13	02:48	30°℞♉	
inferior conj	9925 May 14	13:26	28°♉07'08	3°18'44
minimum elong	9925 May 14	13:05	28°♉08'18	3°18'23
min. Earth dist.	9925 May 15	17:50	26°♉33'01	0.67175 AU
morning rise	9925 May 19	21:29	21°♉47'38	
direct	9925 May 25	21:48	19°♉07'49	
desc. node	9925 Jun 02	00:46	21°♉58'18	
morning max el	9925 Jun 07	02:41	26°♉26'33	25°29'22
	9925 Jun 10	09:34	0°♊	
	9925 Jul 01	19:49	0°♋	
morning set	9925 Jul 13	04:25	19°♋21'28	
max. Earth dist.	9925 Jul 16	20:21	26°♋07'41	1.36105 AU
	9925 Jul 18	21:08	0°♌	
superior conj	9925 Jul 22	21:29	7°♌52'26	-0°29'14
minimum elong	9925 Jul 22	23:17	8°♌01'27	0°29'14
asc. node	9925 Jul 25	21:50	13°♌57'22	
evening rise	9925 Jul 30	22:46	24°♌15'35	
	9925 Aug 02	19:11	0°♍	
evening max el	9925 Aug 17	12:55	23°♍07'27	19°56'57
retrograde	9925 Aug 27	21:00	28°♍14'55	
desc. node	9925 Aug 28	23:24	28°♍11'40	
evening set	9925 Aug 29	18:30	28°♍05'21	
inferior conj	9925 Sep 07	18:02	24°♍05'10	-2°58'14
minimum elong	9925 Sep 07	10:06	24°♍17'10	2°55'28
min. Earth dist.	9925 Sep 09	15:31	22°♍56'22	0.55091 AU
morning rise	9925 Sep 16	00:13	19°♍50'10	
direct	9925 Sep 20	14:55	19°♍03'47	
morning max el	9925 Oct 04	07:51	25°♍48'50	24°20'41
	9925 Oct 08	06:57	0°♎	
asc. node	9925 Oct 21	22:05	20°♎42'45	
	9925 Oct 26	15:54	0°♏	
morning set	9925 Oct 29	10:08	5°♏46'52	
superior conj	9925 Nov 05	06:49	20°♏43'12	1°39'40
minimum elong	9925 Nov 05	06:18	20°♏40'21	1°39'57
max. Earth dist.	9925 Nov 07	09:42	25°♏19'09	1.32691 AU
	9925 Nov 09	14:21	0°♐	
evening rise	9925 Nov 12	16:15	6°♐22'40	
desc. node	9925 Nov 24	21:31	28°♐57'28	
	9925 Nov 25	12:38	0°♑	
evening max el	9925 Dec 16	05:47	27°♑26'08	27°29'36
	9925 Dec 19	03:48	0°♒	
retrograde	9925 Dec 29	22:30	4°♒46'00	
evening set	9926 Jan 05	22:10	2°♒16'11	
	9926 Jan 08	15:58	30°℞♑	
min. Earth dist.	9926 Jan 09	16:29	29°♑01'26	0.63566 AU
inferior conj	9926 Jan 12	08:16	26°♑20'10	-1°50'10
minimum elong	9926 Jan 12	11:48	26°♑11'12	1°48'21
asc. node	9926 Jan 17	21:33	21°♑38'15	
morning rise	9926 Jan 19	03:25	21°♑02'47	
direct	9926 Jan 21	12:52	20°♑34'53	
morning max el	9926 Jan 28	01:26	23°♑56'58	17°47'57
	9926 Feb 01	22:50	0°♒	
morning set	9926 Feb 13	12:01	19°♒00'04	
	9926 Feb 19	22:39	0°♓	
desc. node	9926 Feb 20	21:14	1°♓34'58	
superior conj	9926 Feb 26	01:12	10°♓08'43	-0°37'43
minimum elong	9926 Feb 25	21:10	9°♓52'10	0°36'58
max. Earth dist.	9926 Mar 03	22:21	19°♓37'59	1.44602 AU
	9926 Mar 10	12:48	0°♈	
evening rise	9926 Mar 13	12:48	4°♈37'44	
	9926 Mar 30	13:37	0°♉	
evening max el	9926 Apr 11	06:35	14°♉54'29	20°38'23
asc. node	9926 Apr 15	19:51	18°♉35'53	
retrograde	9926 Apr 19	10:43	19°♉40'27	
evening set	9926 Apr 23	12:26	18°♉05'48	
inferior conj	9926 Apr 28	19:27	11°♉57'32	3°09'00
minimum elong	9926 Apr 28	18:08	12°♉02'04	3°08'34
min. Earth dist.	9926 Apr 29	09:49	11°♉08'05	0.68077 AU
morning rise	9926 May 03	23:38	5°♉40'51	
direct	9926 May 09	11:19	3°♉14'51	
desc. node	9926 May 19	21:42	9°♉14'41	
morning max el	9926 May 20	12:07	9°♉50'37	24°02'28
	9926 Jun 05	10:33	0°♊	
	9926 Jun 24	12:36	0°♋	
morning set	9926 Jun 25	00:13	0°♋49'50	
max. Earth dist.	9926 Jun 28	17:56	7°♋22'29	1.38289 AU
superior conj	9926 Jul 06	00:21	20°♋45'58	-1°02'10
minimum elong	9926 Jul 06	04:25	21°♋05'20	1°01'52
	9926 Jul 10	18:56	0°♌	
asc. node	9926 Jul 12	18:46	3°♌55'15	
evening rise	9926 Jul 14	22:38	8°♌10'44	
	9926 Jul 27	06:42	0°♍	
evening max el	9926 Jul 31	08:13	4°♍52'21	18°59'14
retrograde	9926 Aug 09	01:32	9°♍12'42	
evening set	9926 Aug 10	23:06	9°♍01'10	
desc. node	9926 Aug 15	20:36	6°♍59'56	
inferior conj	9926 Aug 19	06:38	4°♍45'19	-1°03'32
minimum elong	9926 Aug 19	03:54	4°♍50'04	1°02'40
min. Earth dist.	9926 Aug 22	05:28	2°♍42'22	0.56427 AU
	9926 Aug 26	23:46	30°℞♌	
morning rise	9926 Aug 27	05:34	29°♌53'50	
direct	9926 Sep 01	15:31	28°♌44'41	
	9926 Sep 07	07:55	0°♍	
morning max el	9926 Sep 15	20:55	6°♍03'02	25°59'30

	9926 Oct	03	09:17	0°♎	
asc. node	9926 Oct	08	18:57	10°♎02'01	
morning set	9926 Oct	13	21:12	20°♎30'03	
	9926 Oct	18	05:48	0°♏	
superior conj	9926 Oct	20	17:33	5°♏30'55	1°34'00
minimum elong	9926 Oct	20	16:05	5°♏22'47	1°34'07
max. Earth dist.	9926 Oct	21	16:04	7°♏35'33	1.31865 AU
evening rise	9926 Oct	27	17:18	20°♏39'42	
	9926 Nov	01	08:14	0°♐	
desc. node	9926 Nov	11	18:38	18°♐26'55	
	9926 Nov	19	17:20	0°♑	
evening max el	9926 Nov	28	14:02	10°♑05'15	27°20'47
retrograde	9926 Dec	12	10:38	17°♑19'33	
evening set	9926 Dec	19	11:29	15°♑03'11	
min. Earth dist.	9926 Dec	23	04:26	12°♑13'35	0.61583 AU
inferior conj	9926 Dec	26	05:16	9°♑30'32	-3°03'43
minimum elong	9926 Dec	26	11:20	9°♑16'55	3°01'07
morning rise	9927 Jan	02	13:39	4°♑31'51	
direct	9927 Jan	04	18:28	4°♑11'13	
asc. node	9927 Jan	04	18:38	4°♑11'13	
morning max el	9927 Jan	11	17:45	7°♑42'26	17°51'51
	9927 Jan	26	04:52	0°♒	
morning set	9927 Jan	27	10:21	2°♒13'07	
superior conj	9927 Feb	07	05:21	21°♒21'25	0°04'00
minimum elong	9927 Feb	07	05:44	21°♒23'04	0°04'14
behind sun begin	9927 Feb	06	21:32	20°♒47'45	
behind sun end	9927 Feb	07	13:57	21°♒58'18	
desc. node	9927 Feb	07	18:03	22°♒15'51	
	9927 Feb	12	08:16	0°♓	
max. Earth dist.	9927 Feb	14	13:27	3°♓38'43	1.43116 AU
evening rise	9927 Feb	21	06:19	14°♓21'50	
	9927 Mar	03	12:41	0°♈	
evening max el	9927 Mar	25	02:27	28°♈36'52	21°51'34
	9927 Mar	26	12:55	0°♉	
asc. node	9927 Apr	02	17:02	4°♉03'10	
retrograde	9927 Apr	03	08:37	4°♉05'15	
evening set	9927 Apr	07	20:43	2°♉15'17	
	9927 Apr	10	02:12	30°♑℞♈	
inferior conj	9927 Apr	13	03:55	25°♈56'28	2°48'41
minimum elong	9927 Apr	13	01:57	26°♈03'18	2°48'07
min. Earth dist.	9927 Apr	13	05:20	25°♈51'32	0.68526 AU
morning rise	9927 Apr	18	07:02	19°♈44'05	
direct	9927 Apr	23	05:07	17°♈37'15	
morning max el	9927 May	02	23:01	23°♈22'05	22°32'46
desc. node	9927 May	06	18:35	27°♈33'21	
	9927 May	08	19:00	0°♉	
	9927 May	29	19:24	0°♊	
morning set	9927 Jun	05	19:03	11°♊08'26	
max. Earth dist.	9927 Jun	10	15:36	19°♊13'38	1.40561 AU
	9927 Jun	16	20:22	0°♋	
superior conj	9927 Jun	18	10:39	2°♋51'30	-1°33'36
minimum elong	9927 Jun	18	16:36	3°♋18'20	1°33'16
evening rise	9927 Jun	28	12:48	21°♋35'44	
asc. node	9927 Jun	29	15:44	23°♋42'32	
	9927 Jul	03	00:56	0°♌	
evening max el	9927 Jul	14	13:29	17°♌17'38	18°22'35
retrograde	9927 Jul	22	00:57	21°♌02'53	
evening set	9927 Jul	24	04:49	20°♌44'52	
inferior conj	9927 Jul	31	16:50	16°♌09'08	0°36'39
minimum elong	9927 Jul	31	18:06	16°♌06'33	0°35'52
desc. node	9927 Aug	02	17:48	14°♌28'33	
min. Earth dist.	9927 Aug	04	01:31	13°♌25'23	0.58381 AU
morning rise	9927 Aug	08	03:53	10°♌41'36	
direct	9927 Aug	14	06:44	9°♌02'59	
morning max el	9927 Aug	28	15:56	16°♌45'46	27°13'28
	9927 Sep	08	13:37	0°♍	
asc. node	9927 Sep	25	15:48	29°♍40'54	
	9927 Sep	25	19:33	0°♎	
morning set	9927 Sep	28	05:53	5°♎03'20	
superior conj	9927 Oct	05	05:20	20°♎18'27	1°22'48
minimum elong	9927 Oct	05	03:16	20°♎06'56	1°22'40
max. Earth dist.	9927 Oct	05	01:27	19°♎56'50	1.31513 AU
	9927 Oct	09	14:28	0°♏	
evening rise	9927 Oct	11	23:54	5°♏10'05	
	9927 Oct	25	00:26	0°♐	
desc. node	9927 Oct	29	15:49	7°♐16'58	
evening max el	9927 Nov	10	15:57	21°♐57'36	26°37'58
retrograde	9927 Nov	24	14:17	29°♐05'15	
evening set	9927 Dec	01	07:31	27°♐12'38	
min. Earth dist.	9927 Dec	05	05:50	24°♐36'40	0.59469 AU
inferior conj	9927 Dec	08	10:18	22°♐07'08	-4°15'55
minimum elong	9927 Dec	08	18:03	21°♐51'56	4°13'19
morning rise	9927 Dec	16	07:13	17°♐29'51	
direct	9927 Dec	18	10:55	17°♐13'07	
asc. node	9927 Dec	22	15:41	18°♐20'15	
morning max el	9927 Dec	26	05:23	21°♐02'54	18°15'06
	9928 Jan	02	00:12	0°♑	
morning set	9928 Jan	10	23:17	16°♑06'27	
	9928 Jan	18	08:47	0°♒	
superior conj	9928 Jan	20	09:03	3°♒40'38	0°39'21
minimum elong	9928 Jan	20	11:45	3°♒52'53	0°39'18
desc. node	9928 Jan	25	14:56	12°♒58'59	
max. Earth dist.	9928 Jan	27	23:31	17°♒01'37	1.41171 AU
evening rise	9928 Feb	01	17:33	24°♒55'48	
	9928 Feb	04	21:10	0°♓	
	9928 Feb	25	08:51	0°♈	
evening max el	9928 Mar	06	18:18	12°♈22'09	23°11'02
retrograde	9928 Mar	17	04:12	18°♈31'39	
asc. node	9928 Mar	19	14:13	18°♈03'17	
evening set	9928 Mar	22	03:39	16°♈27'17	
min. Earth dist.	9928 Mar	27	02:10	10°♈38'13	0.68539 AU
inferior conj	9928 Mar	27	12:54	10°♈01'09	2°18'46
minimum elong	9928 Mar	27	10:42	10°♈08'46	2°18'06
morning rise	9928 Apr	01	17:39	3°♈54'22	
direct	9928 Apr	06	02:12	2°♈09'07	
morning max el	9928 Apr	14	14:41	7°♈03'42	21°08'48
desc. node	9928 Apr	22	15:26	16°♈37'34	
	9928 May	02	03:26	0°♉	
morning set	9928 May	15	11:23	20°♉15'32	
	9928 May	21	13:55	0°♊	
max. Earth dist.	9928 May	22	18:42	1°♊57'05	1.42653 AU
superior conj	9928 May	29	23:56	13°♊59'54	-1°59'00
minimum elong	9928 May	30	05:46	14°♊24'48	1°58'58
	9928 Jun	08	03:08	0°♋	
evening rise	9928 Jun	10	13:14	4°♋20'46	
asc. node	9928 Jun	15	12:45	13°♋14'41	
	9928 Jun	26	19:10	0°♌	
evening max el	9928 Jun	27	00:48	0°♌14'07	18°05'55
retrograde	9928 Jul	03	17:39	3°♌39'20	
evening set	9928 Jul	06	05:23	3°♌11'11	
	9928 Jul	11	02:02	30°♑℞♋	
inferior conj	9928 Jul	12	23:37	28°♋15'21	1°51'13
minimum elong	9928 Jul	13	02:24	28°♋08'43	1°49'59
min. Earth dist.	9928 Jul	16	05:12	25°♋12'47	0.60627 AU
morning rise	9928 Jul	19	20:40	22°♋21'12	
desc. node	9928 Jul	19	14:57	22°♋30'31	
direct	9928 Jul	26	10:38	20°♋13'00	
morning max el	9928 Aug	09	17:44	28°♋10'29	27°51'57

	9928 Aug	11	12:12	0°♌	
	9928 Sep	01	08:58	0°♍	
morning set	9928 Sep	11	10:22	19°♍21'33	
asc. node	9928 Sep	11	12:40	19°♍33'29	
	9928 Sep	16	09:50	0°♎	
max. Earth dist.	9928 Sep	17	10:09	2°♎13'27	1.31642 AU
superior conj	9928 Sep	18	16:22	5°♎00'12	1°06'21
minimum elong	9928 Sep	18	14:08	4°♎47'49	1°06'00
evening rise	9928 Sep	25	09:55	19°♎47'46	
	9928 Sep	30	08:02	0°♏	
desc. node	9928 Oct	15	13:01	25°♏11'56	
	9928 Oct	19	12:22	0°♐	
evening max el	9928 Oct	22	09:54	2°♐59'03	25°23'38
retrograde	9928 Nov	05	07:17	9°♐58'52	
evening set	9928 Nov	11	05:25	8°♐38'30	
min. Earth dist.	9928 Nov	15	22:06	5°♐59'34	0.57444 AU
inferior conj	9928 Nov	18	20:09	4°♐00'31	-5°15'07
minimum elong	9928 Nov	19	02:42	3°♐49'21	5°13'40
	9928 Nov	26	04:53	30°℞♏	
morning rise	9928 Nov	27	02:18	29°♏45'36	
direct	9928 Nov	29	10:14	29°♏29'19	
	9928 Dec	02	12:48	0°♐	
morning max el	9928 Dec	08	08:24	3°♐47'01	18°59'26
asc. node	9928 Dec	08	12:43	3°♐57'28	
morning set	9928 Dec	24	22:10	0°♑26'07	
	9928 Dec	24	16:52	0°♑	
superior conj	9929 Jan	02	07:26	16°♑51'52	1°06'28
minimum elong	9929 Jan	02	10:36	17°♑06'59	1°06'26
max. Earth dist.	9929 Jan	09	05:56	29°♑42'17	1.38999 AU
	9929 Jan	09	09:54	0°♒	
desc. node	9929 Jan	11	11:51	3°♒40'14	
evening rise	9929 Jan	13	02:21	6°♒26'38	
	9929 Jan	27	21:34	0°♓	
evening max el	9929 Feb	17	08:08	26°♓10'31	24°30'45
	9929 Feb	21	17:29	0°♈	
retrograde	9929 Feb	28	20:05	2°♈53'52	
evening set	9929 Mar	06	07:41	0°♈36'36	
asc. node	9929 Mar	06	11:25	0°♈28'32	
	9929 Mar	06	23:54	30°℞♓	
min. Earth dist.	9929 Mar	10	22:02	25°♓22'27	0.68134 AU
inferior conj	9929 Mar	11	20:31	24°♓07'16	1°39'44
minimum elong	9929 Mar	11	18:31	24°♓13'57	1°39'07
morning rise	9929 Mar	17	05:29	18°♓07'35	
direct	9929 Mar	21	01:11	16°♓44'00	
morning max el	9929 Mar	28	13:38	20°♓56'47	19°56'31
	9929 Apr	05	01:42	0°♈	
desc. node	9929 Apr	09	12:16	6°♈14'25	
morning set	9929 Apr	24	10:47	28°♈40'46	
	9929 Apr	25	07:20	0°♉	
max. Earth dist.	9929 May	05	05:10	15°♉31'21	1.44304 AU
superior conj	9929 May	10	12:57	24°♉05'14	-2°12'12
minimum elong	9929 May	10	14:40	24°♉12'11	2°12'30
	9929 May	14	03:32	0°♊	
evening rise	9929 May	23	19:03	16°♊14'50	
	9929 May	31	21:53	0°♋	
asc. node	9929 Jun	02	09:50	2°♋25'49	
evening max el	9929 Jun	10	14:28	13°♋32'07	18°08'18
retrograde	9929 Jun	16	23:34	16°♋52'32	
evening set	9929 Jun	19	19:07	16°♋11'41	
inferior conj	9929 Jun	25	23:15	10°♋56'57	2°40'20
minimum elong	9929 Jun	26	01:49	10°♋50'02	2°39'23
min. Earth dist.	9929 Jun	28	17:45	7°♋59'04	0.62852 AU
morning rise	9929 Jul	02	06:47	4°♋46'44	
desc. node	9929 Jul	06	12:04	2°♋36'23	
direct	9929 Jul	09	00:21	2°♋15'55	
morning max el	9929 Jul	23	00:58	10°♋18'27	27°52'09
	9929 Aug	07	10:38	0°♌	
	9929 Aug	24	16:39	0°♍	
morning set	9929 Aug	26	08:32	3°♍19'11	
asc. node	9929 Aug	29	09:33	9°♍35'00	
max. Earth dist.	9929 Aug	31	14:31	14°♍15'40	1.32260 AU
superior conj	9929 Sep	03	00:48	19°♍30'41	0°44'58
minimum elong	9929 Sep	02	22:55	19°♍20'25	0°44'30
	9929 Sep	07	19:58	0°♎	
evening rise	9929 Sep	09	21:26	4°♎27'21	
	9929 Sep	23	10:03	0°♏	
desc. node	9929 Oct	02	10:14	11°♏50'55	
evening max el	9929 Oct	03	21:38	13°♏20'17	23°48'16
retrograde	9929 Oct	17	11:39	20°♏07'31	
evening set	9929 Oct	22	02:50	19°♏20'42	
min. Earth dist.	9929 Oct	28	08:00	16°♏20'27	0.55790 AU
inferior conj	9929 Oct	30	09:43	15°♏05'53	-5°42'46
minimum elong	9929 Oct	30	10:23	15°♏04'52	5°42'30
morning rise	9929 Nov	07	19:53	11°♏10'28	
direct	9929 Nov	10	14:27	10°♏51'07	
morning max el	9929 Nov	20	23:24	15°♏45'20	20°06'19
asc. node	9929 Nov	25	09:42	20°♏48'16	
	9929 Dec	01	08:07	0°♐	
morning set	9929 Dec	09	03:37	15°♐02'47	
	9929 Dec	16	11:21	0°♑	
superior conj	9929 Dec	16	19:47	0°♑42'19	1°25'12
minimum elong	9929 Dec	16	22:18	0°♑54'54	1°25'21
max. Earth dist.	9929 Dec	22	12:45	11°♑50'40	1.36846 AU
evening rise	9929 Dec	26	07:26	18°♑50'16	
desc. node	9929 Dec	29	08:50	24°♑16'04	
	9930 Jan	01	17:25	0°♒	
	9930 Jan	22	02:01	0°♓	
evening max el	9930 Jan	30	21:31	9°♓59'50	25°43'38
retrograde	9930 Feb	12	07:16	17°♓06'32	
evening set	9930 Feb	18	07:12	14°♓38'53	
asc. node	9930 Feb	21	08:37	11°♓31'17	
min. Earth dist.	9930 Feb	22	14:38	9°♓59'41	0.67328 AU
inferior conj	9930 Feb	24	00:51	8°♓11'11	0°51'46
minimum elong	9930 Feb	23	23:37	8°♓15'08	0°51'28
morning rise	9930 Mar	01	16:31	2°♓20'25	
direct	9930 Mar	05	00:32	1°♓16'45	
morning max el	9930 Mar	11	20:25	5°♓00'12	18°59'09
greatest brilliancy	9930 Mar	25	13:42	23°♓29'33	-0.8m
desc. node	9930 Mar	27	09:05	26°♓15'09	
	9930 Mar	29	19:32	0°♈	
morning set	9930 Apr	03	15:49	7°♈30'14	
max. Earth dist.	9930 Apr	17	21:47	29°♈43'05	1.45325 AU
	9930 Apr	18	02:05	0°♉	
superior conj	9930 Apr	20	04:03	3°♉16'28	-2°07'06
minimum elong	9930 Apr	19	22:29	2°♉54'31	2°07'03
evening rise	9930 May	05	02:07	27°♉10'24	
	9930 May	06	19:46	0°♊	
asc. node	9930 May	20	06:55	21°♊08'28	
evening max el	9930 May	25	03:19	27°♊03'11	18°28'57
	9930 May	29	03:25	0°♋	
retrograde	9930 May	31	14:21	0°♋32'50	
	9930 Jun	03	00:21	30°℞♊	
evening set	9930 Jun	03	17:37	29°♊37'46	
inferior conj	9930 Jun	09	11:37	24°♊05'52	3°08'09
minimum elong	9930 Jun	09	13:09	24°♊01'16	3°07'34
min. Earth dist.	9930 Jun	11	15:35	21°♊31'34	0.64834 AU
morning rise	9930 Jun	15	07:45	17°♊47'45	
direct	9930 Jun	21	22:11	15°♊04'54	

desc. node	9930 Jun 23 09:08	15°♊12'01	
morning max el	9930 Jul 05 11:13	23°♊01'53	27°17'12
	9930 Jul 11 15:15	0°♋	
	9930 Jul 31 17:55	0°♌	
morning set	9930 Aug 09 21:38	16°♌48'01	
max. Earth dist.	9930 Aug 14 10:46	25°♌54'06	1.33379 AU
asc. node	9930 Aug 16 06:25	29°♌40'16	
	9930 Aug 16 10:12	0°♍	
superior conj	9930 Aug 18 04:29	3°♍42'52	0°19'01
minimum elong	9930 Aug 18 03:33	3°♍37'52	0°18'36
evening rise	9930 Aug 25 08:27	19°♍02'00	
	9930 Aug 30 17:14	0°♎	
evening max el	9930 Sep 15 10:05	23°♎29'19	22°08'28
desc. node	9930 Sep 19 07:28	26°♎45'11	
retrograde	9930 Sep 28 04:21	29°♎50'35	
evening set	9930 Oct 01 08:04	29°♎28'28	
min. Earth dist.	9930 Oct 09 15:20	25°♎50'06	0.54800 AU
inferior conj	9930 Oct 10 06:54	25°♎28'16	-5°19'20
minimum elong	9930 Oct 09 23:43	25°♎38'20	5°18'05
morning rise	9930 Oct 18 16:56	21°♎41'08	
direct	9930 Oct 22 02:43	21°♎15'22	
morning max el	9930 Nov 03 00:53	26°♎52'46	21°35'02
	9930 Nov 06 00:26	0°♏	
asc. node	9930 Nov 12 06:39	8°♏36'06	
morning set	9930 Nov 23 13:04	29°♏48'14	
	9930 Nov 23 15:19	0°♐	
superior conj	9930 Nov 30 18:02	14°♐59'48	1°36'12
minimum elong	9930 Nov 30 19:24	15°♐06'56	1°36'31
max. Earth dist.	9930 Dec 05 00:22	23°♐44'02	1.34921 AU
	9930 Dec 08 04:50	0°♑	
evening rise	9930 Dec 09 05:18	1°♑57'10	
desc. node	9930 Dec 16 05:50	14°♑41'33	
	9930 Dec 25 17:16	0°♒	
evening max el	9931 Jan 13 10:53	23°♒43'21	26°42'32
	9931 Jan 22 00:49	0°♓	
retrograde	9931 Jan 26 13:03	1°♓02'51	
	9931 Jan 30 17:11	30°℞♒	
evening set	9931 Feb 02 00:23	28°♒28'57	
min. Earth dist.	9931 Feb 06 01:47	24°♒24'14	0.66134 AU
inferior conj	9931 Feb 07 23:50	22°♒08'29	-0°04'55
minimum elong	9931 Feb 07 23:57	22°♒08'06	0°04'35
transit middle	9931 Feb 07 23:57	22°♒08'06	0°04'35
transit begin	9931 Feb 07 21:09	22°♒16'25	
transit end	9931 Feb 08 02:46	21°♒59'49	
asc. node	9931 Feb 08 05:46	21°♒50'57	
morning rise	9931 Feb 14 00:35	16°♒28'44	
direct	9931 Feb 16 22:18	15°♒41'59	
morning max el	9931 Feb 23 09:31	19°♒08'48	18°18'07
	9931 Mar 03 17:51	0°♓	
desc. node	9931 Mar 14 05:53	16°♓33'17	
morning set	9931 Mar 14 21:42	17°♓36'36	
	9931 Mar 22 16:18	0°♈	
superior conj	9931 Mar 30 09:49	12°♈09'50	-1°41'56
minimum elong	9931 Mar 30 00:15	11°♈32'25	1°41'06
max. Earth dist.	9931 Mar 31 17:15	14°♈12'53	1.45617 AU
	9931 Apr 10 19:46	0°♉	
evening rise	9931 Apr 15 09:46	7°♉10'18	
greatest brilliancy	9931 Apr 26 05:25	24°♉00'59	-0.8m
	9931 Apr 30 05:08	0°♊	
asc. node	9931 May 07 04:03	9°♊13'35	
evening max el	9931 May 08 12:51	10°♊41'18	19°07'02
retrograde	9931 May 15 10:24	14°♊32'55	
evening set	9931 May 18 21:41	13°♊22'51	
inferior conj	9931 May 24 09:08	7°♊35'28	3°18'56
minimum elong	9931 May 24 09:26	7°♊34'28	3°18'33
min. Earth dist.	9931 May 25 21:57	5°♊37'14	0.66438 AU
morning rise	9931 May 29 20:42	1°♊15'12	
	9931 May 31 11:45	30°℞♉	
direct	9931 Jun 05 03:04	28°♉31'21	
desc. node	9931 Jun 10 06:07	0°♊00'07	
	9931 Jun 10 06:01	0°♊	
morning max el	9931 Jun 17 21:57	6°♊09'14	26°14'28
	9931 Jul 06 07:05	0°♋	
morning set	9931 Jul 23 22:20	29°♋39'53	
	9931 Jul 24 02:39	0°♌	
max. Earth dist.	9931 Jul 27 20:28	7°♌08'13	1.34985 AU
superior conj	9931 Aug 02 01:02	17°♌30'50	-0°10'48
minimum elong	9931 Aug 02 01:40	17°♌34'05	0°10'58
behind sun begin	9931 Aug 01 21:15	17°♌11'32	
behind sun end	9931 Aug 02 06:04	17°♌56'39	
asc. node	9931 Aug 03 03:19	19°♌45'51	
	9931 Aug 08 01:20	0°♍	
evening rise	9931 Aug 09 17:03	3°♍26'32	
	9931 Aug 24 18:52	0°♎	
evening max el	9931 Aug 28 08:21	4°♎03'11	20°39'36
desc. node	9931 Sep 06 04:40	9°♎24'37	
retrograde	9931 Sep 08 16:23	9°♎40'29	
evening set	9931 Sep 10 19:26	9°♎29'26	
inferior conj	9931 Sep 19 23:13	5°♎33'01	-4°00'38
minimum elong	9931 Sep 19 13:32	5°♎46'57	3°57'42
min. Earth dist.	9931 Sep 20 23:54	4°♎57'31	0.54708 AU
morning rise	9931 Sep 28 07:25	1°♎33'29	
direct	9931 Oct 02 10:45	0°♎56'44	
morning max el	9931 Oct 15 15:59	7°♎19'09	23°19'01
asc. node	9931 Oct 30 03:33	27°♎07'44	
	9931 Oct 31 17:33	0°♏	
morning set	9931 Nov 08 00:30	14°♏36'48	
superior conj	9931 Nov 14 23:03	29°♏35'10	1°40'14
minimum elong	9931 Nov 14 23:11	29°♏35'54	1°40'35
	9931 Nov 15 03:40	0°♐	
max. Earth dist.	9931 Nov 17 19:39	5°♐40'44	1.33374 AU
evening rise	9931 Nov 22 16:16	15°♐38'20	
	9931 Nov 30 07:38	0°♑	
desc. node	9931 Dec 03 02:53	4°♑51'19	
	9931 Dec 20 08:56	0°♒	
evening max el	9931 Dec 26 23:43	7°♒11'44	27°20'11
retrograde	9932 Jan 09 12:50	14°♒34'21	
evening set	9932 Jan 16 09:02	12°♒00'39	
min. Earth dist.	9932 Jan 20 05:23	8°♒28'39	0.64586 AU
inferior conj	9932 Jan 22 15:02	5°♒53'34	-1°09'45
minimum elong	9932 Jan 22 17:10	5°♒47'48	1°08'31
asc. node	9932 Jan 26 02:54	2°♒25'25	
morning rise	9932 Jan 29 03:01	0°♒27'20	
	9932 Jan 30 13:57	30°℞♑	
direct	9932 Jan 31 16:12	29°♑53'46	
	9932 Feb 01 18:29	0°♒	
morning max el	9932 Feb 07 02:18	3°♒14'59	17°53'58
morning set	9932 Feb 24 08:43	29°♒08'45	
	9932 Feb 24 20:58	0°♓	
desc. node	9932 Feb 29 02:41	7°♓03'26	
superior conj	9932 Mar 09 00:54	21°♓35'14	-1°02'44
minimum elong	9932 Mar 08 17:57	21°♓07'24	1°01'43
max. Earth dist.	9932 Mar 13 12:32	28°♓42'27	1.45168 AU
	9932 Mar 14 08:14	0°♈	
evening rise	9932 Mar 25 00:34	16°♈34'33	
	9932 Apr 02 20:12	0°♉	
greatest brilliancy	9932 Apr 08 21:40	9°♉00'14	-0.6m
evening max el	9932 Apr 20 17:22	24°♉21'59	20°01'08

asc. node	9932 Apr 23 01:12	26°♉28'47	
retrograde	9932 Apr 28 08:46	28°♉46'03	
evening set	9932 May 02 04:51	27°♉20'34	
inferior conj	9932 May 07 12:45	21°♉19'29	3°15'59
minimum elong	9932 May 07 11:57	21°♉22'10	3°15'38
min. Earth dist.	9932 May 08 11:06	20°♉03'55	0.67608 AU
morning rise	9932 May 12 18:46	15°♉00'40	
direct	9932 May 18 13:51	12°♉25'44	
desc. node	9932 May 27 03:04	16°♉30'05	
morning max el	9932 May 30 07:38	19°♉28'32	24°53'20
	9932 Jun 08 06:19	0°♊	
	9932 Jun 28 10:01	0°♋	
morning set	9932 Jul 05 06:10	11°♋42'33	
max. Earth dist.	9932 Jul 08 20:30	18°♋12'10	1.37002 AU
superior conj	9932 Jul 15 11:23	0°♌46'38	-0°43'10
minimum elong	9932 Jul 15 14:08	1°♌00'06	0°43'01
	9932 Jul 15 01:50	0°♌	
asc. node	9932 Jul 20 00:15	9°♌47'33	
evening rise	9932 Jul 23 20:51	17°♌34'08	
	9932 Jul 30 06:40	0°♍	
evening max el	9932 Aug 09 20:23	15°♍21'52	19°29'50
retrograde	9932 Aug 19 11:24	20°♍08'06	
evening set	9932 Aug 21 07:32	19°♍58'25	
desc. node	9932 Aug 23 01:51	19°♍32'04	
inferior conj	9932 Aug 30 01:16	15°♍52'57	-2°09'13
minimum elong	9932 Aug 29 19:28	16°♍02'14	2°07'08
min. Earth dist.	9932 Sep 01 11:37	14°♍19'49	0.55564 AU
morning rise	9932 Sep 07 04:57	11°♍22'52	
direct	9932 Sep 12 03:56	10°♍27'35	
morning max el	9932 Sep 26 03:36	17°♍28'46	25°04'42
	9932 Oct 06 10:35	0°♎	
asc. node	9932 Oct 16 00:27	16°♎12'25	
morning set	9932 Oct 22 12:12	29°♎23'35	
	9932 Oct 22 19:01	0°♏	
superior conj	9932 Oct 29 08:20	14°♏20'49	1°37'58
minimum elong	9932 Oct 29 07:23	14°♏15'32	1°38'12
max. Earth dist.	9932 Oct 30 22:37	17°♏50'30	1.32279 AU
evening rise	9932 Nov 05 13:03	29°♏45'12	
	9932 Nov 05 15:55	0°♐	
desc. node	9932 Nov 18 23:58	24°♐38'27	
	9932 Nov 22 09:08	0°♑	
evening max el	9932 Dec 08 10:32	20°♑13'51	27°29'59
retrograde	9932 Dec 22 05:41	27°♑32'13	
evening set	9932 Dec 29 06:27	25°♑07'03	
min. Earth dist.	9933 Jan 01 23:42	22°♑03'46	0.62741 AU
inferior conj	9933 Jan 04 19:41	19°♑20'00	-2°21'04
minimum elong	9933 Jan 05 00:19	19°♑08'51	2°18'51
morning rise	9933 Jan 11 20:26	14°♑10'05	
asc. node	9933 Jan 11 24:00	14°♑07'04	
direct	9933 Jan 14 03:24	13°♑45'48	
morning max el	9933 Jan 20 19:45	17°♑11'05	17°47'18
	9933 Jan 29 23:43	0°♒	
morning set	9933 Feb 05 20:09	11°♒51'34	
desc. node	9933 Feb 14 23:32	27°♒41'51	
	9933 Feb 16 08:16	0°♓	
superior conj	9933 Feb 17 14:28	2°♓06'29	-0°19'31
minimum elong	9933 Feb 17 12:30	1°♓58'19	0°19'00
max. Earth dist.	9933 Feb 24 05:42	12°♓58'11	1.44038 AU
evening rise	9933 Mar 04 12:47	26°♓01'33	
	9933 Mar 07 02:55	0°♈	
	9933 Mar 27 20:35	0°♉	
evening max el	9933 Apr 03 16:23	8°♉04'15	21°08'27
asc. node	9933 Apr 09 22:22	12°♉40'02	
retrograde	9933 Apr 12 07:15	13°♉07'52	

evening set	9933 Apr 16 13:12	11°♉26'50	
inferior conj	9933 Apr 21 20:04	5°♉13'58	3°01'35
minimum elong	9933 Apr 21 18:26	5°♉19'38	3°01'07
min. Earth dist.	9933 Apr 22 04:54	4°♉43'19	0.68326 AU
	9933 Apr 25 22:27	30°℞♈	
morning rise	9933 Apr 26 23:27	28°♈58'53	
direct	9933 May 02 05:31	26°♈40'14	
	9933 May 09 12:51	0°♉	
morning max el	9933 May 12 17:07	2°♉54'51	23°24'00
desc. node	9933 May 13 24:00	4°♉15'13	
	9933 Jun 02 08:31	0°♊	
morning set	9933 Jun 16 15:50	22°♊42'11	
max. Earth dist.	9933 Jun 20 16:51	29°♊37'26	1.39261 AU
	9933 Jun 20 22:01	0°♋	
superior conj	9933 Jun 28 07:46	13°♋21'08	-1°15'55
minimum elong	9933 Jun 28 12:45	13°♋44'19	1°15'33
asc. node	9933 Jul 06 21:12	29°♋41'26	
	9933 Jul 07 01:02	0°♌	
evening rise	9933 Jul 07 17:00	1°♌17'15	
evening max el	9933 Jul 23 20:29	27°♌25'27	18°41'11
	9933 Jul 27 01:45	0°♍	
retrograde	9933 Jul 31 23:30	1°♍28'36	
evening set	9933 Aug 02 23:33	1°♍14'42	
	9933 Aug 06 04:50	30°℞♌	
desc. node	9933 Aug 09 23:03	27°♌34'38	
inferior conj	9933 Aug 10 22:49	26°♌50'47	-0°18'14
minimum elong	9933 Aug 10 22:05	26°♌52'09	0°18'13
min. Earth dist.	9933 Aug 14 03:49	24°♌28'14	0.57205 AU
morning rise	9933 Aug 18 17:11	21°♌43'34	
direct	9933 Aug 24 11:10	20°♌22'09	
morning max el	9933 Sep 07 18:34	27°♌51'39	26°34'46
	9933 Sep 09 20:57	0°♍	
	9933 Sep 29 23:13	0°♎	
asc. node	9933 Oct 02 21:19	5°♎41'03	
morning set	9933 Oct 06 22:28	14°♎03'12	
superior conj	9933 Oct 13 19:44	29°♎09'20	1°29'55
minimum elong	9933 Oct 13 17:58	28°♎59'30	1°29'56
	9933 Oct 14 04:51	0°♏	
max. Earth dist.	9933 Oct 14 06:45	0°♏10'29	1.31659 AU
evening rise	9933 Oct 20 16:46	14°♏09'14	
	9933 Oct 28 16:40	0°♐	
desc. node	9933 Nov 05 21:07	13°♐52'57	
	9933 Nov 18 02:53	0°♑	
evening max el	9933 Nov 20 16:40	2°♑35'22	27°06'50
retrograde	9933 Dec 04 14:13	9°♑46'11	
evening set	9933 Dec 11 12:58	7°♑39'07	
min. Earth dist.	9933 Dec 15 07:18	4°♑56'46	0.60690 AU
inferior conj	9933 Dec 18 10:23	2°♑17'46	-3°35'03
minimum elong	9933 Dec 18 17:21	2°♑02'57	3°32'18
	9933 Dec 21 06:32	30°℞♐	
morning rise	9933 Dec 26 00:16	27°♐27'32	
direct	9933 Dec 28 04:08	27°♐08'54	
asc. node	9933 Dec 29 21:05	27°♐20'57	
	9934 Jan 03 14:14	0°♑	
morning max el	9934 Jan 04 10:28	0°♑47'00	17°59'13
morning set	9934 Jan 20 01:24	25°♑24'07	
	9934 Jan 22 13:17	0°♒	
superior conj	9934 Jan 30 05:05	13°♒48'40	0°19'57
minimum elong	9934 Jan 30 06:43	13°♒55'52	0°20'00
desc. node	9934 Feb 01 20:24	18°♒24'12	
max. Earth dist.	9934 Feb 06 18:59	26°♒45'17	1.42340 AU
	9934 Feb 08 18:19	0°♓	
evening rise	9934 Feb 12 12:57	6°♓05'14	
	9934 Feb 28 08:56	0°♈	

evening max el	9934 Mar 17 10:28	21°♈48'14	22°24'58
retrograde	9934 Mar 27 04:12	27°♈33'55	
asc. node	9934 Mar 27 19:32	27°♈31'54	
evening set	9934 Mar 31 21:06	25°♈37'40	
inferior conj	9934 Apr 06 04:59	19°♈15'33	2°37'06
minimum elong	9934 Apr 06 02:52	19°♈22'55	2°36'30
min. Earth dist.	9934 Apr 06 01:11	19°♈28'49	0.68591 AU
morning rise	9934 Apr 11 08:30	13°♈05'36	
direct	9934 Apr 16 00:52	11°♈07'42	
morning max el	9934 Apr 25 05:33	16°♈29'52	21°55'55
desc. node	9934 Apr 30 20:53	22°♈54'56	
	9934 May 06 06:15	0°♉	
	9934 May 26 09:45	0°♊	
morning set	9934 May 27 23:07	2°♊29'07	
max. Earth dist.	9934 Jun 02 16:48	11°♊51'55	1.41493 AU
superior conj	9934 Jun 10 09:43	25°♊03'56	-1°45'26
minimum elong	9934 Jun 10 15:59	25°♊31'33	1°45'12
	9934 Jun 13 04:20	0°♋	
evening rise	9934 Jun 21 01:53	14°♋26'54	
asc. node	9934 Jun 23 18:12	19°♋23'14	
	9934 Jun 29 18:47	0°♌	
evening max el	9934 Jul 07 04:50	10°♌05'32	18°13'07
retrograde	9934 Jul 14 06:53	13°♌40'24	
evening set	9934 Jul 16 14:09	13°♌18'21	
inferior conj	9934 Jul 23 18:10	8°♌33'36	1°11'31
minimum elong	9934 Jul 23 20:21	8°♌28'49	1°10'26
min. Earth dist.	9934 Jul 27 02:40	5°♌39'18	0.59318 AU
desc. node	9934 Jul 27 20:14	5°♌03'43	
morning rise	9934 Jul 30 23:23	2°♌53'40	
direct	9934 Aug 06 07:47	1°♌02'22	
morning max el	9934 Aug 20 16:31	8°♌51'38	27°34'38
	9934 Sep 05 20:12	0°♍	
asc. node	9934 Sep 19 18:12	25°♍26'58	
morning set	9934 Sep 21 05:38	28°♍31'14	
	9934 Sep 21 22:27	0°♎	
max. Earth dist.	9934 Sep 27 16:34	12°♎32'44	1.31514 AU
superior conj	9934 Sep 28 07:26	13°♎55'23	1°16'28
minimum elong	9934 Sep 28 05:14	13°♎43'10	1°16'13
evening rise	9934 Oct 05 01:06	28°♎44'00	
	9934 Oct 05 15:21	0°♏	
	9934 Oct 22 03:04	0°♐	
desc. node	9934 Oct 23 18:18	2°♐22'01	
evening max el	9934 Nov 02 15:20	14°♐06'17	26°09'41
retrograde	9934 Nov 16 13:12	21°♐10'04	
evening set	9934 Nov 23 00:06	19°♐30'17	
min. Earth dist.	9934 Nov 27 04:16	16°♐55'32	0.58592 AU
inferior conj	9934 Nov 30 07:35	14°♐37'05	-4°43'32
minimum elong	9934 Nov 30 15:19	14°♐22'48	4°41'17
morning rise	9934 Dec 08 08:59	10°♐09'20	
direct	9934 Dec 10 13:57	9°♐53'04	
asc. node	9934 Dec 16 18:07	12°♐09'01	
morning max el	9934 Dec 18 18:52	13°♐53'08	18°31'15
	9934 Dec 29 18:19	0°♑	
morning set	9935 Jan 03 19:01	9°♑30'06	
superior conj	9935 Jan 12 17:20	26°♑31'49	0°51'54
minimum elong	9935 Jan 12 20:24	26°♑46'06	0°51'49
	9935 Jan 14 14:34	0°♒	
desc. node	9935 Jan 19 17:18	9°♒06'59	
max. Earth dist.	9935 Jan 20 03:37	9°♒51'44	1.40265 AU
evening rise	9935 Jan 24 09:12	17°♒02'57	
	9935 Feb 01 10:49	0°♓	
	9935 Feb 22 23:36	0°♈	
evening max el	9935 Feb 28 01:10	5°♈34'35	23°45'16
retrograde	9935 Mar 10 22:18	11°♈59'23	

asc. node	9935 Mar 14 16:44	10°♈51'50	
evening set	9935 Mar 16 03:00	9°♈49'00	
min. Earth dist.	9935 Mar 20 21:45	4°♈15'05	0.68420 AU
inferior conj	9935 Mar 21 13:36	3°♈20'59	2°03'17
minimum elong	9935 Mar 21 11:25	3°♈28'25	2°02'37
	9935 Mar 24 03:07	30°℞♓	
morning rise	9935 Mar 26 19:51	27°♓17'19	
direct	9935 Mar 30 22:48	25°♓41'34	
	9935 Apr 07 17:25	0°♈	
morning max el	9935 Apr 08 00:13	0°♈16'42	20°36'24
desc. node	9935 Apr 17 17:45	12°♈14'14	
	9935 Apr 29 22:25	0°♉	
morning set	9935 May 07 06:11	11°♉12'20	
max. Earth dist.	9935 May 15 23:30	24°♉59'52	1.43420 AU
	9935 May 19 01:20	0°♊	
superior conj	9935 May 22 12:47	5°♊45'05	-2°06'29
minimum elong	9935 May 22 17:26	6°♊04'31	2°06'38
evening rise	9935 Jun 03 19:01	26°♊51'42	
	9935 Jun 05 13:48	0°♋	
asc. node	9935 Jun 10 15:14	8°♋47'13	
evening max el	9935 Jun 20 17:28	23°♋11'37	18°04'37
retrograde	9935 Jun 27 05:54	26°♋33'25	
evening set	9935 Jun 29 20:54	26°♋00'11	
inferior conj	9935 Jul 06 08:37	20°♋55'55	2°14'57
minimum elong	9935 Jul 06 11:28	20°♋48'45	2°13'48
min. Earth dist.	9935 Jul 09 10:03	17°♋52'41	0.61585 AU
morning rise	9935 Jul 12 23:41	14°♋53'26	
desc. node	9935 Jul 14 17:23	13°♋50'28	
direct	9935 Jul 19 15:50	12°♋34'44	
morning max el	9935 Aug 02 21:09	20°♋35'57	27°56'46
	9935 Aug 10 23:33	0°♌	
	9935 Aug 29 20:23	0°♍	
morning set	9935 Sep 05 07:42	12°♍41'26	
asc. node	9935 Sep 06 15:04	15°♍23'54	
max. Earth dist.	9935 Sep 10 23:58	24°♍44'45	1.31843 AU
superior conj	9935 Sep 12 17:34	28°♍32'39	0°57'52
minimum elong	9935 Sep 12 15:24	28°♍20'47	0°57'27
	9935 Sep 13 09:26	0°♎	
evening rise	9935 Sep 19 11:56	13°♎22'46	
	9935 Sep 27 18:10	0°♏	
desc. node	9935 Oct 10 15:30	19°♏47'38	
evening max el	9935 Oct 15 05:50	24°♏47'10	24°44'38
	9935 Oct 22 07:36	0°♐	
retrograde	9935 Oct 29 01:11	1°♐43'22	
evening set	9935 Nov 03 11:33	0°♐37'21	
	9935 Nov 04 21:49	30°℞♏	
min. Earth dist.	9935 Nov 08 17:09	27°♏51'42	0.56677 AU
inferior conj	9935 Nov 11 08:38	26°♏09'50	-5°31'57
minimum elong	9935 Nov 11 13:16	26°♏02'21	5°31'08
morning rise	9935 Nov 19 17:15	22°♏04'22	
direct	9935 Nov 22 04:51	21°♏47'18	
morning max el	9935 Dec 01 17:11	26°♏19'12	19°25'09
asc. node	9935 Dec 03 15:08	28°♏19'34	
	9935 Dec 05 00:32	0°♐	
morning set	9935 Dec 18 21:01	23°♐58'05	
	9935 Dec 21 21:04	0°♑	
superior conj	9935 Dec 26 22:13	10°♑01'49	1°15'23
minimum elong	9935 Dec 27 01:12	10°♑16'21	1°15'27
max. Earth dist.	9936 Jan 02 09:24	22°♑16'16	1.38063 AU
evening rise	9936 Jan 06 02:56	28°♑57'16	
desc. node	9936 Jan 06 14:15	29°♑46'42	
	9936 Jan 06 17:17	0°♒	
	9936 Jan 25 19:44	0°♓	
evening max el	9936 Feb 10 14:27	19°♓23'31	25°02'59

retrograde	9936 Feb 22 12:27	26°♓18'58	
evening set	9936 Feb 28 05:20	23°♓56'40	
asc. node	9936 Feb 29 13:55	22°♓39'47	
min. Earth dist.	9936 Mar 03 16:30	18°♓57'27	0.67834 AU
inferior conj	9936 Mar 04 20:03	17°♓27'07	1°20'29
minimum elong	9936 Mar 04 18:18	17°♓32'52	1°19'58
morning rise	9936 Mar 10 07:35	11°♓31'05	
direct	9936 Mar 13 22:02	10°♓16'30	
morning max el	9936 Mar 21 02:41	14°♓15'34	19°30'11
	9936 Apr 02 05:22	0°♈	
greatest brilliancy	9936 Apr 02 19:34	0°♈52'15	-0.7m
desc. node	9936 Apr 03 14:34	2°♈02'35	
morning set	9936 Apr 15 04:57	19°♈39'45	
	9936 Apr 21 21:05	0°♉	
max. Earth dist.	9936 Apr 27 12:31	8°♉51'11	1.44819 AU
superior conj	9936 May 01 15:41	15°♉25'15	-2°12'32
minimum elong	9936 May 01 14:24	15°♉20'09	2°12'48
	9936 May 10 14:56	0°♊	
evening rise	9936 May 15 15:37	8°♊21'54	
asc. node	9936 May 27 12:18	27°♊47'31	
	9936 May 29 00:03	0°♋	
evening max el	9936 Jun 03 07:06	6°♋36'00	18°14'51
retrograde	9936 Jun 09 16:04	9°♋58'55	
evening set	9936 Jun 12 14:46	9°♋12'21	
inferior conj	9936 Jun 18 14:09	3°♋50'17	2°54'28
minimum elong	9936 Jun 18 16:20	3°♋44'07	2°53'40
min. Earth dist.	9936 Jun 21 02:46	1°♋00'08	0.63735 AU
	9936 Jun 22 01:28	30°℞♊	
morning rise	9936 Jun 24 16:29	27°♊35'35	
desc. node	9936 Jun 30 14:27	25°♊00'02	
direct	9936 Jul 01 09:27	24°♊57'58	
	9936 Jul 12 00:24	0°♋	
morning max el	9936 Jul 15 06:03	3°♋00'34	27°41'07
	9936 Aug 04 09:24	0°♌	
morning set	9936 Aug 19 02:21	26°♌27'35	
	9936 Aug 20 20:34	0°♍	
asc. node	9936 Aug 23 11:57	5°♍27'24	
max. Earth dist.	9936 Aug 24 01:01	6°♍36'03	1.32670 AU
superior conj	9936 Aug 27 00:13	12°♍55'46	0°34'28
minimum elong	9936 Aug 26 22:40	12°♍47'22	0°34'00
evening rise	9936 Sep 02 23:25	28°♍00'19	
	9936 Sep 03 21:57	0°♎	
	9936 Sep 21 05:34	0°♏	
evening max el	9936 Sep 25 16:36	4°♏58'15	23°05'21
desc. node	9936 Sep 26 12:42	5°♏45'38	
retrograde	9936 Oct 09 00:35	11°♏37'08	
evening set	9936 Oct 13 00:01	11°♏02'39	
min. Earth dist.	9936 Oct 20 01:48	7°♏47'47	0.55262 AU
inferior conj	9936 Oct 21 14:15	6°♏55'01	-5°39'59
minimum elong	9936 Oct 21 11:25	6°♏59'08	5°39'36
morning rise	9936 Oct 30 00:39	3°♏04'55	
direct	9936 Nov 02 01:02	2°♏43'24	
morning max el	9936 Nov 13 02:26	7°♏56'05	20°41'40
asc. node	9936 Nov 19 12:07	15°♏36'30	
	9936 Nov 27 21:14	0°♐	
morning set	9936 Dec 02 04:25	8°♐39'09	
superior conj	9936 Dec 09 15:12	24°♐05'08	1°30'45
minimum elong	9936 Dec 09 17:15	24°♐15'39	1°31'00
	9936 Dec 12 13:35	0°♑	
max. Earth dist.	9936 Dec 14 17:20	4°♑14'08	1.35983 AU
evening rise	9936 Dec 18 15:37	11°♑40'51	
desc. node	9936 Dec 23 11:12	20°♑18'52	
	9936 Dec 29 06:03	0°♒	
	9937 Jan 20 01:42	0°♓	

evening max el	9937 Jan 23 03:48	3°♓11'33	26°10'54
retrograde	9937 Feb 04 21:34	10°♓25'34	
evening set	9937 Feb 11 02:23	7°♓54'48	
asc. node	9937 Feb 15 11:06	3°♓18'08	
min. Earth dist.	9937 Feb 15 07:10	3°♓30'07	0.66860 AU
inferior conj	9937 Feb 16 22:22	1°♓29'11	0°28'47
minimum elong	9937 Feb 16 21:38	1°♓31'29	0°28'43
	9937 Feb 18 03:41	30°℞♒	
morning rise	9937 Feb 22 17:37	25°♒42'36	
direct	9937 Feb 25 20:58	24°♒46'37	
morning max el	9937 Mar 04 12:21	28°♒21'53	18°39'35
	9937 Mar 06 01:30	0°♓	
desc. node	9937 Mar 21 11:21	22°♓11'30	
morning set	9937 Mar 25 18:58	28°♓57'40	
	9937 Mar 26 10:51	0°♈	
max. Earth dist.	9937 Apr 10 06:09	23°♈10'50	1.45542 AU
superior conj	9937 Apr 11 00:42	24°♈23'26	-1°58'41
minimum elong	9937 Apr 10 16:37	23°♈51'50	1°58'18
	9937 Apr 14 14:33	0°♉	
evening rise	9937 Apr 26 12:20	18°♉51'59	
	9937 May 03 11:32	0°♊	
greatest brilliancy	9937 May 04 05:15	1°♊10'17	-0.9m
asc. node	9937 May 14 09:24	16°♊15'40	
evening max el	9937 May 17 18:50	20°♊11'06	18°43'09
retrograde	9937 May 24 09:21	23°♊48'25	
evening set	9937 May 27 15:58	22°♊47'05	
inferior conj	9937 Jun 02 06:48	17°♊08'42	3°14'34
minimum elong	9937 Jun 02 07:49	17°♊05'33	3°14'05
min. Earth dist.	9937 Jun 04 04:24	14°♊48'22	0.65573 AU
morning rise	9937 Jun 07 22:56	10°♊49'14	
direct	9937 Jun 14 10:36	8°♊04'19	
desc. node	9937 Jun 17 11:28	8°♊35'28	
morning max el	9937 Jun 27 16:32	15°♊54'59	26°53'16
	9937 Jul 09 06:52	0°♋	
	9937 Jul 28 04:53	0°♌	
morning set	9937 Aug 02 10:39	9°♌42'10	
max. Earth dist.	9937 Aug 06 16:40	18°♌02'28	1.34002 AU
asc. node	9937 Aug 10 08:50	25°♌33'37	
superior conj	9937 Aug 11 01:14	26°♌59'05	0°06'47
minimum elong	9937 Aug 11 00:53	26°♌57'15	0°06'28
behind sun begin	9937 Aug 10 19:37	26°♌29'47	
behind sun end	9937 Aug 11 06:08	27°♌24'46	
	9937 Aug 12 11:41	0°♍	
evening rise	9937 Aug 18 09:41	12°♍31'39	
	9937 Aug 27 07:59	0°♎	
evening max el	9937 Sep 07 08:34	15°♎15'15	21°28'45
desc. node	9937 Sep 13 09:54	19°♎46'42	
retrograde	9937 Sep 19 13:41	21°♎18'58	
evening set	9937 Sep 22 04:47	21°♎03'11	
inferior conj	9937 Oct 01 07:41	17°♎06'40	-4°51'59
minimum elong	9937 Sep 30 22:28	17°♎19'33	4°49'50
min. Earth dist.	9937 Oct 01 09:29	17°♎04'09	0.54641 AU
morning rise	9937 Oct 09 17:03	13°♎16'47	
direct	9937 Oct 13 10:19	12°♎46'48	
morning max el	9937 Oct 25 22:45	18°♎43'59	22°18'02
	9937 Nov 04 00:54	0°♏	
asc. node	9937 Nov 06 09:03	3°♏44'56	
morning set	9937 Nov 16 14:58	23°♏27'00	
	9937 Nov 19 16:51	0°♐	
superior conj	9937 Nov 23 16:41	8°♐31'31	1°38'42
minimum elong	9937 Nov 23 17:31	8°♐35'59	1°39'03
max. Earth dist.	9937 Nov 27 08:13	16°♐08'16	1.34213 AU
evening rise	9937 Dec 01 19:34	25°♐04'11	
	9937 Dec 04 09:39	0°♑	

desc. node	9937 Dec 10	08:14	10°♑38'53			9938 Nov 11	03:36	0°♐	
	9937 Dec 22	17:46	0°♒		evening rise	9938 Nov 15	11:04	8°♐56'56	
evening max el	9938 Jan 05	17:20	16°♒51'11	27°01'36		9938 Nov 26	19:47	0°♑	
retrograde	9938 Jan 19	00:48	24°♒12'23		desc. node	9938 Nov 27	05:19	0°♑39'59	
evening set	9938 Jan 25	16:13	21°♒38'04		evening max el	9938 Dec 19	05:38	0°♒09'56	27°28'05
min. Earth dist.	9938 Jan 29	15:27	17°♒47'18	0.65521 AU		9938 Dec 19	01:29	0°♒	
inferior conj	9938 Jan 31	18:23	15°♒22'32	-0°31'26	retrograde	9939 Jan 01	21:26	7°♒30'38	
minimum elong	9938 Jan 31	19:17	15°♒19'58	0°30'45	evening set	9939 Jan 08	20:26	4°♒59'29	
asc. node	9938 Feb 02	08:14	13°♒37'06		min. Earth dist.	9939 Jan 12	15:11	1°♒40'31	0.63839 AU
morning rise	9938 Feb 06	23:39	9°♒47'53			9939 Jan 14	06:30	30°℞♑	
direct	9938 Feb 09	17:34	9°♒07'06		inferior conj	9939 Jan 15	05:28	29°♑00'29	-1°39'21
morning max el	9938 Feb 16	03:17	12°♒30'12	18°05'39	minimum elong	9939 Jan 15	08:37	28°♑52'21	1°37'41
	9938 Feb 28	14:19	0°♓		asc. node	9939 Jan 20	05:21	24°♑34'55	
morning set	9938 Mar 06	13:31	9°♓41'55		morning rise	9939 Jan 21	22:43	23°♑40'49	
desc. node	9938 Mar 08	08:10	12°♓35'29		direct	9939 Jan 24	09:05	23°♑11'32	
	9938 Mar 19	04:25	0°♈		morning max el	9939 Jan 30	20:44	26°♑32'59	17°48'59
						9939 Feb 02	20:49	0°♒	
superior conj	9938 Mar 21	08:08	3°♈24'14	-1°26'25	morning set	9939 Feb 16	11:46	21°♒47'01	
minimum elong	9938 Mar 20	23:01	2°♈48'20	1°25'24		9939 Feb 21	07:48	0°♓	
max. Earth dist.	9938 Mar 24	02:08	7°♈43'33	1.45525 AU	desc. node	9939 Feb 23	05:01	3°♓09'56	
evening rise	9938 Apr 06	11:26	28°♈32'54						
	9938 Apr 07	09:57	0°♉		superior conj	9939 Mar 01	07:52	13°♓15'30	-0°44'20
greatest brilliancy	9938 Apr 19	06:49	18°♉10'21	-0.7m	minimum elong	9939 Mar 01	03:02	12°♓55'54	0°43'29
	9938 Apr 27	17:25	0°♊		max. Earth dist.	9939 Mar 06	21:22	22°♓11'27	1.44768 AU
evening max el	9938 May 01	02:27	3°♊50'59	19°28'17		9939 Mar 11	20:35	0°♈	
asc. node	9938 May 01	06:31	4°♊01'11		evening rise	9939 Mar 16	23:18	7°♈54'14	
retrograde	9938 May 08	06:35	7°♊54'47			9939 Mar 31	16:58	0°♉	
evening set	9938 May 11	21:37	6°♊38'02		evening max el	9939 Apr 14	04:38	17°♉32'40	20°28'19
inferior conj	9938 May 17	07:13	0°♊44'40	3°19'11	asc. node	9939 Apr 18	03:40	20°♉51'32	
minimum elong	9938 May 17	07:02	0°♊45'16	3°18'50	retrograde	9939 Apr 22	05:18	22°♉12'54	
	9938 May 17	20:45	30°℞♉		evening set	9939 Apr 26	05:32	20°♉40'33	
min. Earth dist.	9938 May 18	13:44	29°♉04'17	0.66997 AU	inferior conj	9939 May 01	12:42	14°♉34'00	3°11'10
morning rise	9938 May 22	16:05	24°♉24'58		minimum elong	9939 May 01	11:31	14°♉38'04	3°10'46
direct	9938 May 28	18:03	21°♉43'56		min. Earth dist.	9939 May 02	05:05	13°♉37'49	0.67969 AU
desc. node	9938 Jun 04	08:27	24°♉10'31		morning rise	9939 May 06	17:16	8°♉16'40	
morning max el	9938 Jun 10	02:43	29°♉07'54	25°41'34	direct	9939 May 12	06:51	5°♉48'15	
	9938 Jun 10	22:54	0°♊		desc. node	9939 May 22	05:24	11°♉15'49	
	9938 Jul 03	02:29	0°♋		morning max el	9939 May 23	12:16	12°♉31'26	24°15'49
morning set	9938 Jul 16	04:42	22°♋14'17			9939 Jun 06	13:34	0°♊	
max. Earth dist.	9938 Jul 19	21:58	29°♋10'04	1.35804 AU		9939 Jun 25	21:38	0°♋	
	9938 Jul 20	08:27	0°♌		morning set	9939 Jun 28	03:48	3°♋52'11	
					max. Earth dist.	9939 Jul 01	20:05	10°♋21'34	1.37951 AU
superior conj	9938 Jul 25	17:51	10°♌34'31	-0°24'19					
minimum elong	9938 Jul 25	19:19	10°♌41'58	0°24'21	superior conj	9939 Jul 08	22:46	23°♋34'07	-0°57'11
asc. node	9938 Jul 28	05:44	15°♌38'03		minimum elong	9939 Jul 09	02:30	23°♋52'00	0°56'55
evening rise	9938 Aug 02	16:33	26°♌50'03			9939 Jul 12	06:20	0°♌	
	9938 Aug 04	05:53	0°♍		asc. node	9939 Jul 15	02:40	5°♌37'12	
evening max el	9938 Aug 20	12:37	26°♍06'59	20°07'20	evening rise	9939 Jul 17	17:32	10°♌48'49	
	9938 Aug 25	16:19	0°♎			9939 Jul 28	05:27	0°♍	
retrograde	9938 Aug 31	02:55	1°♎22'17		evening max el	9939 Aug 03	06:05	7°♍45'05	19°06'29
desc. node	9938 Aug 31	07:07	1°♎22'12		retrograde	9939 Aug 12	04:51	12°♍11'58	
evening set	9938 Sep 02	01:23	1°♎12'32		evening set	9939 Aug 14	01:45	12°♍01'06	
	9938 Sep 05	23:00	30°℞♍		desc. node	9939 Aug 18	04:18	10°♍29'53	
inferior conj	9938 Sep 11	02:26	27°♍13'35	-3°15'15	inferior conj	9939 Aug 22	12:06	7°♍48'04	-1°20'26
minimum elong	9938 Sep 10	17:53	27°♍26'19	3°12'22	minimum elong	9939 Aug 22	08:35	7°♍54'03	1°19'15
min. Earth dist.	9938 Sep 12	18:47	26°♍13'30	0.54965 AU	min. Earth dist.	9939 Aug 25	08:10	5°♍52'28	0.56182 AU
morning rise	9938 Sep 19	09:16	23°♍03'13		morning rise	9939 Aug 30	12:23	3°♍02'04	
direct	9938 Sep 23	20:58	22°♍19'38		direct	9939 Sep 04	19:28	1°♍56'47	
morning max el	9938 Oct 07	11:15	28°♍58'46	24°04'51	morning max el	9939 Sep 18	23:49	9°♍11'07	25°45'59
	9938 Oct 08	12:26	0°♎			9939 Oct 04	15:09	0°♎	
asc. node	9938 Oct 24	05:57	22°♎31'45		asc. node	9939 Oct 11	02:51	11°♎47'30	
	9938 Oct 28	03:11	0°♏		morning set	9939 Oct 16	14:02	22°♎59'36	
morning set	9938 Nov 01	02:44	8°♏15'20			9939 Oct 19	19:30	0°♏	
superior conj	9938 Nov 07	23:47	23°♏11'43	1°40'00	superior conj	9939 Oct 23	10:12	7°♏59'06	1°35'15
minimum elong	9938 Nov 07	23:25	23°♏09'47	1°40'19	minimum elong	9939 Oct 23	08:52	7°♏51'40	1°35'22
max. Earth dist.	9938 Nov 10	07:12	28°♏11'04	1.32855 AU	max. Earth dist.	9939 Oct 24	12:45	10°♏25'36	1.31957 AU

evening rise	9939 Oct 30 11:06	23°♏11'26	
	9939 Nov 02 19:29	0°♐	
desc. node	9939 Nov 14 02:26	20°♐14'21	
	9939 Nov 20 15:08	0°♑	
evening max el	9939 Dec 01 14:34	12°♑55'05	27°24'13
retrograde	9939 Dec 15 10:56	20°♑10'48	
evening set	9939 Dec 22 11:59	17°♑51'46	
min. Earth dist.	9939 Dec 26 04:47	14°♑58'59	0.61884 AU
inferior conj	9939 Dec 29 04:33	12°♑15'11	-2°52'33
minimum elong	9939 Dec 29 10:15	12°♑02'08	2°50'00
morning rise	9940 Jan 05 10:59	7°♑13'38	
asc. node	9940 Jan 07 02:28	6°♑53'40	
direct	9940 Jan 07 16:12	6°♑52'12	
morning max el	9940 Jan 14 13:30	10°♑21'39	17°50'08
	9940 Jan 27 14:03	0°♒	
morning set	9940 Jan 30 07:30	4°♒52'49	
superior conj	9940 Feb 10 08:17	24°♒17'46	-0°02'02
minimum elong	9940 Feb 10 08:08	24°♒17'05	0°01'45
behind sun begin	9940 Feb 09 23:32	23°♒40'24	
behind sun end	9940 Feb 10 16:43	24°♒53'41	
desc. node	9940 Feb 10 01:53	23°♒50'24	
	9940 Feb 13 17:30	0°♓	
max. Earth dist.	9940 Feb 17 12:57	6°♓16'16	1.43366 AU
evening rise	9940 Feb 24 15:02	17°♓32'58	
	9940 Mar 03 18:39	0°♈	
	9940 Mar 25 20:33	0°♉	
evening max el	9940 Mar 27 01:17	1°♉15'07	21°40'08
asc. node	9940 Apr 04 00:51	6°♉31'09	
retrograde	9940 Apr 05 03:30	6°♉37'16	
evening set	9940 Apr 09 13:55	4°♉49'40	
	9940 Apr 13 19:37	30°℞♈	
inferior conj	9940 Apr 14 20:58	28°♈32'13	2°52'23
minimum elong	9940 Apr 14 19:05	28°♈38'47	2°51'51
min. Earth dist.	9940 Apr 15 00:17	28°♈20'39	0.68487 AU
morning rise	9940 Apr 20 00:04	22°♈19'00	
direct	9940 Apr 25 00:12	20°♈09'00	
morning max el	9940 May 04 22:45	26°♈01'51	22°45'54
desc. node	9940 May 08 02:20	29°♈26'30	
	9940 May 08 13:53	0°♉	
	9940 May 30 02:12	0°♊	
morning set	9940 Jun 08 02:38	14°♊21'56	
max. Earth dist.	9940 Jun 12 17:03	22°♊04'44	1.40229 AU
	9940 Jun 17 06:22	0°♋	
superior conj	9940 Jun 20 11:51	5°♋47'33	-1°29'06
minimum elong	9940 Jun 20 17:35	6°♋13'40	1°28'45
evening rise	9940 Jun 30 09:24	24°♋18'51	
asc. node	9940 Jun 30 23:38	25°♋26'23	
	9940 Jul 03 09:42	0°♌	
evening max el	9940 Jul 16 10:09	20°♌05'12	18°26'46
retrograde	9940 Jul 24 01:19	23°♌54'32	
evening set	9940 Jul 26 04:06	23°♌37'44	
inferior conj	9940 Aug 02 19:02	19°♌05'14	0°22'58
minimum elong	9940 Aug 02 19:51	19°♌03'36	0°22'23
desc. node	9940 Aug 04 01:29	18°♌04'03	
min. Earth dist.	9940 Aug 06 03:16	16°♌26'13	0.58063 AU
morning rise	9940 Aug 10 08:03	13°♌42'40	
direct	9940 Aug 16 08:51	12°♌08'26	
morning max el	9940 Aug 30 17:45	19°♌48'21	27°04'32
	9940 Sep 08 10:51	0°♍	
	9940 Sep 26 07:02	0°♎	
asc. node	9940 Sep 26 23:45	1°♎24'18	
morning set	9940 Sep 29 23:13	7°♎35'05	
superior conj	9940 Oct 06 21:59	22°♎47'36	1°24'52
minimum elong	9940 Oct 06 19:59	22°♎36'27	1°24'45
max. Earth dist.	9940 Oct 06 21:53	22°♎47'04	1.31532 AU
	9940 Oct 10 03:59	0°♏	
evening rise	9940 Oct 13 17:03	7°♏40'50	
	9940 Oct 25 06:24	0°♐	
desc. node	9940 Oct 30 23:34	9°♐11'31	
evening max el	9940 Nov 12 17:42	24°♐55'53	26°46'34
	9940 Nov 19 10:28	0°♑	
retrograde	9940 Nov 26 16:02	2°♑04'30	
evening set	9940 Dec 03 10:57	0°♑07'54	
	9940 Dec 03 16:31	30°℞♐	
min. Earth dist.	9940 Dec 07 07:56	27°♐30'40	0.59782 AU
inferior conj	9940 Dec 10 12:16	24°♐58'08	-4°05'32
minimum elong	9940 Dec 10 19:53	24°♐42'52	4°02'50
morning rise	9940 Dec 18 07:26	20°♐17'23	
direct	9940 Dec 20 10:58	20°♐00'18	
asc. node	9940 Dec 23 23:33	20°♐48'43	
morning max el	9940 Dec 28 02:05	23°♐46'55	18°10'18
	9941 Jan 02 02:10	0°♑	
morning set	9941 Jan 12 18:36	18°♑41'24	
	9941 Jan 18 19:40	0°♒	
superior conj	9941 Jan 22 08:44	6°♒27'54	0°34'30
minimum elong	9941 Jan 22 11:13	6°♒39'05	0°34'27
desc. node	9941 Jan 26 22:46	14°♒33'36	
max. Earth dist.	9941 Jan 29 23:41	19°♒45'08	1.41483 AU
evening rise	9941 Feb 03 23:14	27°♒58'55	
	9941 Feb 05 05:18	0°♓	
	9941 Feb 25 09:56	0°♈	
evening max el	9941 Mar 09 17:41	15°♈00'06	22°59'03
retrograde	9941 Mar 19 23:26	21°♈03'35	
asc. node	9941 Mar 21 22:02	20°♈45'13	
evening set	9941 Mar 24 21:09	19°♈01'22	
inferior conj	9941 Mar 30 06:00	12°♈36'13	2°23'54
minimum elong	9941 Mar 30 03:48	12°♈43'50	2°23'15
min. Earth dist.	9941 Mar 29 21:05	13°♈07'06	0.68568 AU
morning rise	9941 Apr 04 10:20	6°♈28'29	
direct	9941 Apr 08 20:54	4°♈39'51	
morning max el	9941 Apr 17 13:24	9°♈41'20	21°20'37
desc. node	9941 Apr 24 23:13	18°♈24'41	
	9941 May 03 07:53	0°♉	
morning set	9941 May 18 22:38	23°♉38'34	
	9941 May 22 22:15	0°♊	
max. Earth dist.	9941 May 25 19:06	4°♊40'04	1.42368 AU
superior conj	9941 Jun 02 04:32	17°♊05'11	-1°55'47
minimum elong	9941 Jun 02 10:36	17°♊31'17	1°55'41
	9941 Jun 09 12:45	0°♋	
evening rise	9941 Jun 13 12:09	7°♋10'28	
asc. node	9941 Jun 17 20:38	15°♋01'07	
	9941 Jun 27 06:16	0°♌	
evening max el	9941 Jun 29 20:51	2°♌57'50	18°07'11
retrograde	9941 Jul 06 15:39	6°♌24'56	
evening set	9941 Jul 09 02:16	5°♌58'25	
inferior conj	9941 Jul 15 22:55	1°♌05'26	1°41'36
minimum elong	9941 Jul 16 01:37	0°♌59'11	1°40'23
	9941 Jul 17 02:56	30°℞♋	
min. Earth dist.	9941 Jul 19 05:35	28°♋04'17	0.60287 AU
desc. node	9941 Jul 21 22:39	25°♋53'54	
morning rise	9941 Jul 22 22:06	25°♋14'46	
direct	9941 Jul 29 10:56	23°♋10'44	
	9941 Aug 11 14:57	0°♌	
morning max el	9941 Aug 12 18:28	1°♌06'11	27°48'44
	9941 Sep 02 16:23	0°♍	
asc. node	9941 Sep 13 20:36	21°♍15'21	
morning set	9941 Sep 14 04:26	21°♍55'59	
	9941 Sep 17 23:15	0°♎	
max. Earth dist.	9941 Sep 20 06:59	5°♎05'30	1.31591 AU

superior conj	9941 Sep 21 09:14	7°♎30'43	1°09'11
minimum elong	9941 Sep 21 06:59	7°♎18'17	1°08'52
evening rise	9941 Sep 28 02:40	22°♎18'05	
	9941 Oct 01 18:57	0°♏	
desc. node	9941 Oct 17 20:45	27°♏16'09	
	9941 Oct 19 23:39	0°♐	
evening max el	9941 Oct 25 12:57	6°♐05'17	25°36'27
retrograde	9941 Nov 08 10:34	13°♐05'56	
evening set	9941 Nov 14 12:26	11°♐40'30	
min. Earth dist.	9941 Nov 19 01:22	9°♐03'15	0.57733 AU
inferior conj	9941 Nov 22 01:09	6°♐58'46	-5°07'41
minimum elong	9941 Nov 22 08:10	6°♐46'33	5°06'00
morning rise	9941 Nov 30 06:14	2°♐40'26	
direct	9941 Dec 02 13:14	2°♐24'13	
asc. node	9941 Dec 10 20:36	6°♐13'33	
morning max el	9941 Dec 11 06:36	6°♐37'07	18°51'20
	9941 Dec 26 03:45	0°♑	
morning set	9941 Dec 27 16:13	2°♑57'58	
superior conj	9942 Jan 05 04:37	19°♑32'11	1°02'53
minimum elong	9942 Jan 05 07:48	19°♑47'16	1°02'51
	9942 Jan 10 20:25	0°♒	
max. Earth dist.	9942 Jan 12 06:40	2°♒32'44	1.39332 AU
desc. node	9942 Jan 13 19:40	5°♒15'19	
evening rise	9942 Jan 16 04:47	9°♒21'17	
	9942 Jan 29 03:05	0°♓	
evening max el	9942 Feb 20 07:44	28°♓48'10	24°19'08
	9942 Feb 21 13:38	0°♈	
retrograde	9942 Mar 03 15:52	5°♈26'45	
asc. node	9942 Mar 08 19:14	3°♈24'38	
evening set	9942 Mar 09 01:42	3°♈11'13	
	9942 Mar 12 01:42	30°℞♓	
min. Earth dist.	9942 Mar 13 17:10	27°♓51'59	0.68223 AU
inferior conj	9942 Mar 14 13:55	26°♓42'10	1°46'15
minimum elong	9942 Mar 14 11:51	26°♓49'07	1°45'37
morning rise	9942 Mar 19 22:05	20°♓41'27	
direct	9942 Mar 23 19:41	19°♓14'41	
morning max el	9942 Mar 31 11:11	23°♓32'43	20°06'23
	9942 Apr 06 00:40	0°♈	
desc. node	9942 Apr 11 20:04	7°♈57'15	
	9942 Apr 26 14:25	0°♉	
morning set	9942 Apr 27 23:23	2°♉06'49	
max. Earth dist.	9942 May 08 04:53	18°♉09'07	1.44094 AU
superior conj	9942 May 13 21:14	27°♉20'08	-2°11'16
minimum elong	9942 May 13 23:52	27°♉30'54	2°11'32
	9942 May 15 12:09	0°♊	
evening rise	9942 May 26 21:05	19°♊13'17	
	9942 Jun 02 03:58	0°♋	
asc. node	9942 Jun 04 17:40	4°♋16'03	
evening max el	9942 Jun 13 10:22	16°♋13'27	18°06'43
retrograde	9942 Jun 19 19:58	19°♋33'44	
evening set	9942 Jun 22 14:22	18°♋54'52	
inferior conj	9942 Jun 28 20:19	13°♋42'42	2°34'22
minimum elong	9942 Jun 28 23:00	13°♋35'37	2°33'20
min. Earth dist.	9942 Jul 01 16:42	10°♋42'53	0.62531 AU
morning rise	9942 Jul 05 05:46	7°♋34'14	
desc. node	9942 Jul 08 19:45	5°♋38'05	
direct	9942 Jul 11 23:10	5°♋06'22	
morning max el	9942 Jul 26 01:07	13°♋08'34	27°54'32
	9942 Aug 08 12:41	0°♌	
	9942 Aug 26 03:50	0°♍	
morning set	9942 Aug 29 03:39	5°♍57'02	
asc. node	9942 Aug 31 17:27	11°♍15'45	
max. Earth dist.	9942 Sep 03 12:18	17°♍10'57	1.32139 AU
superior conj	9942 Sep 05 18:08	22°♍03'02	0°48'31
minimum elong	9942 Sep 05 16:10	21°♍52'15	0°48'04
	9942 Sep 09 09:09	0°♎	
evening rise	9942 Sep 12 14:03	6°♎57'39	
	9942 Sep 24 12:47	0°♏	
desc. node	9942 Oct 04 17:55	14°♏07'54	
evening max el	9942 Oct 07 01:09	16°♏30'22	24°03'07
retrograde	9942 Oct 20 16:44	23°♏20'08	
evening set	9942 Oct 25 13:16	22°♏28'28	
min. Earth dist.	9942 Oct 31 11:43	19°♏32'37	0.56004 AU
inferior conj	9942 Nov 02 17:32	18°♏10'39	-5°41'30
minimum elong	9942 Nov 02 19:22	18°♏07'51	5°41'09
morning rise	9942 Nov 11 03:29	14°♏12'59	
direct	9942 Nov 13 20:08	13°♏54'18	
morning max el	9942 Nov 23 23:29	18°♏42'17	19°54'56
asc. node	9942 Nov 27 17:36	22°♏53'57	
	9942 Dec 02 13:22	0°♐	
morning set	9942 Dec 11 20:50	17°♐32'22	
	9942 Dec 17 23:45	0°♑	
superior conj	9942 Dec 19 15:08	3°♑17'25	1°22'51
minimum elong	9942 Dec 19 17:47	3°♑30'37	1°23'00
max. Earth dist.	9942 Dec 25 13:09	14°♑44'58	1.37157 AU
evening rise	9942 Dec 29 06:59	21°♑37'09	
desc. node	9942 Dec 31 16:35	25°♑51'57	
	9943 Jan 03 02:18	0°♒	
	9943 Jan 23 00:54	0°♓	
evening max el	9943 Feb 02 21:00	12°♓37'09	25°33'30
retrograde	9943 Feb 15 03:46	19°♓41'14	
evening set	9943 Feb 21 01:58	17°♓14'43	
asc. node	9943 Feb 23 16:26	14°♓37'48	
min. Earth dist.	9943 Feb 25 10:19	12°♓30'29	0.67472 AU
inferior conj	9943 Feb 26 18:50	10°♓46'25	0°59'38
minimum elong	9943 Feb 26 17:26	10°♓50'54	0°59'15
morning rise	9943 Mar 04 09:21	4°♓54'20	
direct	9943 Mar 07 18:59	3°♓47'57	
morning max el	9943 Mar 14 16:53	7°♓34'56	19°06'41
greatest brilliancy	9943 Mar 27 23:07	25°♓16'40	-0.7m
desc. node	9943 Mar 29 16:52	27°♓54'44	
	9943 Mar 31 01:43	0°♈	
morning set	9943 Apr 07 02:00	10°♈48'12	
	9943 Apr 19 10:01	0°♉	
max. Earth dist.	9943 Apr 20 20:43	2°♉16'14	1.45214 AU
superior conj	9943 Apr 23 15:00	6°♉37'25	-2°09'11
minimum elong	9943 Apr 23 10:31	6°♉19'40	2°09'16
evening rise	9943 May 08 07:42	0°♊17'41	
	9943 May 08 03:23	0°♊	
asc. node	9943 May 22 14:44	23°♊03'29	
evening max el	9943 May 27 23:28	29°♊42'41	18°24'42
	9943 May 28 06:32	0°♋	
retrograde	9943 Jun 03 09:43	3°♋10'19	
evening set	9943 Jun 06 11:46	2°♋17'30	
	9943 Jun 09 09:27	30°℞♊	
inferior conj	9943 Jun 12 07:02	26°♊48'00	3°05'07
minimum elong	9943 Jun 12 08:45	26°♊42'57	3°04'28
min. Earth dist.	9943 Jun 14 13:14	24°♊09'12	0.64558 AU
morning rise	9943 Jun 18 04:41	20°♊30'29	
direct	9943 Jun 24 19:52	17°♊48'43	
desc. node	9943 Jun 25 16:50	17°♊51'16	
morning max el	9943 Jul 08 11:11	25°♊47'44	27°24'23
	9943 Jul 12 07:57	0°♋	
	9943 Aug 02 01:49	0°♌	
morning set	9943 Aug 12 18:18	19°♌30'37	
max. Earth dist.	9943 Aug 17 09:56	28°♌52'56	1.33182 AU
	9943 Aug 17 22:52	0°♍	
asc. node	9943 Aug 18 14:19	1°♍20'31	

superior conj	9943 Aug 20 22:40	6°♍18'06	0°23'13
minimum elong	9943 Aug 20 21:32	6°♍12'07	0°22'48
evening rise	9943 Aug 28 01:15	21°♍33'06	
	9943 Sep 01 03:12	0°♎	
evening max el	9943 Sep 18 12:44	26°♎38'13	22°22'52
desc. node	9943 Sep 21 15:07	29°♎19'42	
	9943 Sep 22 13:25	0°♏	
retrograde	9943 Oct 01 11:08	3°♏04'54	
evening set	9943 Oct 04 19:41	2°♏40'00	
	9943 Oct 11 05:45	30°℞♎	
min. Earth dist.	9943 Oct 12 19:14	29°♎08'06	0.54892 AU
inferior conj	9943 Oct 13 16:32	28°♎38'04	-5°26'42
minimum elong	9943 Oct 13 10:22	28°♎46'47	5°25'43
morning rise	9943 Oct 22 02:44	24°♎50'49	
direct	9943 Oct 25 09:54	24°♎26'22	
morning max el	9943 Nov 06 02:57	29°♎57'15	21°20'42
	9943 Nov 06 04:07	0°♏	
asc. node	9943 Nov 14 14:32	10°♏34'03	
	9943 Nov 25 03:24	0°♐	
morning set	9943 Nov 26 05:50	2°♐17'01	
superior conj	9943 Dec 03 12:09	17°♐31'48	1°34'59
minimum elong	9943 Dec 03 13:42	17°♐39'53	1°35'17
max. Earth dist.	9943 Dec 07 23:37	26°♐38'39	1.35181 AU
	9943 Dec 09 16:32	0°♑	
evening rise	9943 Dec 12 02:36	4°♑38'28	
desc. node	9943 Dec 18 13:34	16°♑19'23	
	9943 Dec 26 22:27	0°♒	
evening max el	9944 Jan 16 10:18	26°♒22'06	26°34'57
	9944 Jan 20 15:00	0°♓	
retrograde	9944 Jan 29 10:32	3°♓40'49	
evening set	9944 Feb 04 20:14	1°♓07'28	
	9944 Feb 06 02:48	30°℞♒	
min. Earth dist.	9944 Feb 08 22:26	26°♒57'38	0.66332 AU
inferior conj	9944 Feb 10 18:46	24°♒45'20	0°04'15
minimum elong	9944 Feb 10 18:38	24°♒45'43	0°04'28
transit middle	9944 Feb 10 18:38	24°♒45'43	0°04'28
transit begin	9944 Feb 10 15:50	24°♒54'06	
transit end	9944 Feb 10 21:26	24°♒37'21	
asc. node	9944 Feb 10 13:36	25°♒00'48	
morning rise	9944 Feb 16 18:01	19°♒03'51	
direct	9944 Feb 19 17:07	18°♒14'52	
morning max el	9944 Feb 26 05:13	21°♒43'33	18°23'09
	9944 Mar 03 20:15	0°♓	
desc. node	9944 Mar 15 13:40	18°♓10'39	
morning set	9944 Mar 17 03:33	20°♓41'30	
	9944 Mar 23 00:14	0°♈	
superior conj	9944 Apr 01 21:01	15°♈30'30	-1°46'52
minimum elong	9944 Apr 01 11:37	14°♈53'42	1°46'08
max. Earth dist.	9944 Apr 02 15:39	16°♈43'18	1.45619 AU
	9944 Apr 11 03:25	0°♉	
evening rise	9944 Apr 17 18:35	10°♉24'44	
greatest brilliancy	9944 Apr 27 20:32	26°♉12'26	-0.8m
	9944 Apr 30 08:07	0°♊	
asc. node	9944 May 08 11:51	11°♊14'54	
evening max el	9944 May 10 09:37	13°♊19'55	19°00'20
retrograde	9944 May 17 05:10	17°♊07'35	
evening set	9944 May 20 15:11	15°♊59'52	
inferior conj	9944 May 26 03:24	10°♊14'48	3°18'13
minimum elong	9944 May 26 03:54	10°♊13'13	3°17'49
min. Earth dist.	9944 May 27 18:31	8°♊10'28	0.66227 AU
morning rise	9944 May 31 16:03	3°♊54'30	
direct	9944 Jun 06 23:53	1°♊09'59	
desc. node	9944 Jun 11 13:51	2°♊20'59	
morning max el	9944 Jun 19 21:56	8°♊51'59	26°25'09
	9944 Jul 06 11:10	0°♋	
	9944 Jul 24 13:10	0°♋	
morning set	9944 Jul 25 21:06	2°♋28'36	
max. Earth dist.	9944 Jul 29 21:07	10°♋09'26	1.34715 AU
superior conj	9944 Aug 03 20:27	20°♋10'05	-0°06'05
minimum elong	9944 Aug 03 20:49	20°♋11'56	0°06'18
behind sun begin	9944 Aug 03 15:21	19°♋43'50	
behind sun end	9944 Aug 04 02:17	20°♋40'06	
asc. node	9944 Aug 04 11:12	21°♋26'07	
	9944 Aug 08 13:39	0°♍	
evening rise	9944 Aug 11 10:21	5°♍59'22	
	9944 Aug 24 13:26	0°♎	
evening max el	9944 Aug 30 09:14	7°♎06'59	20°51'46
desc. node	9944 Sep 07 12:20	12°♎21'26	
retrograde	9944 Sep 10 23:07	12°♎51'29	
evening set	9944 Sep 13 04:38	12°♎39'35	
inferior conj	9944 Sep 22 08:43	8°♎43'40	-4°15'25
minimum elong	9944 Sep 21 22:54	8°♎57'39	4°12'37
min. Earth dist.	9944 Sep 23 03:40	8°♎16'40	0.54658 AU
morning rise	9944 Sep 30 17:14	4°♎47'10	
direct	9944 Oct 04 17:53	4°♎12'22	
morning max el	9944 Oct 17 19:15	10°♎28'40	23°03'03
asc. node	9944 Oct 31 11:28	28°♎59'55	
	9944 Nov 01 01:05	0°♏	
morning set	9944 Nov 09 17:06	17°♏05'26	
	9944 Nov 15 17:04	0°♐	
superior conj	9944 Nov 16 16:21	2°♐05'08	1°40'02
minimum elong	9944 Nov 16 16:40	2°♐06'50	1°40'23
max. Earth dist.	9944 Nov 19 17:40	8°♐33'54	1.33575 AU
evening rise	9944 Nov 24 11:53	18°♐15'22	
	9944 Nov 30 17:05	0°♑	
desc. node	9944 Dec 04 10:36	6°♑31'56	
	9944 Dec 20 04:20	0°♒	
evening max el	9944 Dec 28 23:23	9°♒53'53	27°16'15
retrograde	9945 Jan 11 11:20	17°♒16'36	
evening set	9945 Jan 18 06:20	14°♒42'32	
min. Earth dist.	9945 Jan 22 03:24	11°♒05'41	0.64837 AU
inferior conj	9945 Jan 24 11:19	8°♒32'57	-0°59'26
minimum elong	9945 Jan 24 13:07	8°♒28'02	0°58'20
asc. node	9945 Jan 27 10:45	5°♒29'24	
morning rise	9945 Jan 30 21:30	3°♒04'22	
direct	9945 Feb 02 11:49	2°♒29'05	
morning max el	9945 Feb 08 21:38	5°♒50'37	17°56'26
	9945 Feb 25 05:11	0°♓	
morning set	9945 Feb 26 10:28	2°♓01'43	
desc. node	9945 Mar 02 10:29	8°♓39'15	
superior conj	9945 Mar 12 09:40	24°♓48'20	-1°09'10
minimum elong	9945 Mar 12 02:02	24°♓17'55	1°08'07
	9945 Mar 15 16:21	0°♈	
max. Earth dist.	9945 Mar 16 11:05	1°♈13'45	1.45285 AU
evening rise	9945 Mar 28 11:06	19°♈51'59	
	9945 Apr 04 02:07	0°♉	
greatest brilliancy	9945 Apr 11 22:33	11°♉45'53	-0.6m
evening max el	9945 Apr 23 15:00	27°♉00'26	19°52'13
asc. node	9945 Apr 25 09:01	28°♉38'28	
	9945 Apr 27 04:51	0°♊	
retrograde	9945 May 01 03:17	1°♊18'54	
evening set	9945 May 04 22:01	29°♉55'44	
	9945 May 04 19:40	30°℞♉	
inferior conj	9945 May 10 06:18	23°♉56'41	3°17'10
minimum elong	9945 May 10 05:39	23°♉58'51	3°16'50
min. Earth dist.	9945 May 11 06:46	22°♉34'29	0.67465 AU
morning rise	9945 May 15 12:58	17°♉37'34	
direct	9945 May 21 09:57	15°♉00'41	
desc. node	9945 May 29 10:50	18°♉37'11	

morning max el	9945 Jun 02	07:42	22°♉09'27	25°06'09	
	9945 Jun 09	04:07	0°♊		
	9945 Jun 29	17:56	0°♋		
morning set	9945 Jul 08	07:47	14°♋39'22		
max. Earth dist.	9945 Jul 11	22:16	21°♋12'54	1.36678 AU	
	9945 Jul 16	13:20	0°♌		
superior conj	9945 Jul 18	08:35	3°♌31'30	-0°38'09	
minimum elong	9945 Jul 18	11:00	3°♌43'21	0°38'04	
asc. node	9945 Jul 22	08:07	11°♌28'44		
evening rise	9945 Jul 26	15:04	20°♌10'05		
	9945 Jul 31	14:47	0°♍		
evening max el	9945 Aug 12	19:21	18°♍19'14	19°38'58	
retrograde	9945 Aug 22	16:15	23°♍12'40		
evening set	9945 Aug 24	12:38	23°♍03'07		
desc. node	9945 Aug 25	09:33	22°♍52'18		
inferior conj	9945 Sep 02	08:36	18°♍59'47	-2°26'48	
minimum elong	9945 Sep 02	02:00	19°♍10'08	2°24'27	
min. Earth dist.	9945 Sep 04	14:46	17°♍35'05	0.55382 AU	
morning rise	9945 Sep 10	13:14	14°♍35'14		
direct	9945 Sep 15	09:25	13°♍43'09		
morning max el	9945 Sep 29	06:50	20°♍38'49	24°49'29	
	9945 Oct 07	07:52	0°♎		
asc. node	9945 Oct 18	08:22	18°♎00'20		
	9945 Oct 24	07:39	0°♏		
morning set	9945 Oct 25	04:54	1°♏52'53		
superior conj	9945 Nov 01	01:10	16°♏49'38	1°38'42	
minimum elong	9945 Nov 01	00:21	16°♏45'13	1°38'56	
max. Earth dist.	9945 Nov 02	19:45	20°♏42'12	1.32417 AU	
	9945 Nov 07	04:29	0°♐		
evening rise	9945 Nov 08	07:26	2°♐19'04		
desc. node	9945 Nov 21	07:43	26°♐22'58		
	9945 Nov 23	13:31	0°♑		
evening max el	9945 Dec 11	10:46	23°♑00'50	27°30'29	
	9945 Dec 22	13:02	0°♒		
retrograde	9945 Dec 25	05:09	0°♒19'39		
	9945 Dec 27	19:18	30°℞♑		
evening set	9946 Jan 01	05:37	27°♑52'49		
min. Earth dist.	9946 Jan 04	23:13	24°♑45'32	0.63036 AU	
inferior conj	9946 Jan 07	17:45	22°♑02'28	-2°09'58	
minimum elong	9946 Jan 07	21:59	21°♑52'04	2°07'53	
asc. node	9946 Jan 14	07:52	16°♑58'08		
morning rise	9946 Jan 14	16:31	16°♑49'47		
direct	9946 Jan 17	00:18	16°♑24'18		
morning max el	9946 Jan 23	15:10	19°♑48'17	17°47'08	
	9946 Jan 31	05:10	0°♒		
morning set	9946 Feb 08	18:42	14°♒35'12		
desc. node	9946 Feb 17	07:21	29°♒16'29		
	9946 Feb 17	17:40	0°♓		
superior conj	9946 Feb 20	19:29	5°♓08'26	-0°25'57	
minimum elong	9946 Feb 20	16:48	4°♓57'21	0°25'21	
max. Earth dist.	9946 Feb 27	04:54	15°♓33'01	1.44251 AU	
evening rise	9946 Mar 07	22:45	29°♓16'09		
	9946 Mar 08	10:09	0°♈		
	9946 Mar 28	20:21	0°♉		
evening max el	9946 Apr 06	14:52	10°♉42'26	20°57'45	
asc. node	9946 Apr 12	06:11	15°♉00'22		
retrograde	9946 Apr 15	01:51	15°♉39'39		
evening set	9946 Apr 19	06:19	14°♉00'48		
inferior conj	9946 Apr 24	13:12	7°♉49'34	3°04'24	
minimum elong	9946 Apr 24	11:41	7°♉54'50	3°03'58	
min. Earth dist.	9946 Apr 24	23:58	7°♉12'19	0.68250 AU	
morning rise	9946 Apr 29	16:49	1°♉33'56		
	9946 May 01	21:46	30°℞♈		
direct	9946 May 05	00:53	29°♈12'35		
	9946 May 08	10:03	0°♉		
morning max el	9946 May 15	17:04	5°♉34'32	23°37'26	
desc. node	9946 May 16	07:47	6°♉12'17		
	9946 Jun 03	13:37	0°♊		
morning set	9946 Jun 19	21:03	25°♊48'46		
	9946 Jun 22	07:41	0°♋		
max. Earth dist.	9946 Jun 23	18:53	2°♋33'28	1.38919 AU	
superior conj	9946 Jul 01	07:19	16°♋12'28	-1°11'03	
minimum elong	9946 Jul 01	11:59	16°♋34'23	1°10'43	
	9946 Jul 08	11:52	0°♌		
asc. node	9946 Jul 09	05:05	1°♌23'51		
evening rise	9946 Jul 10	12:34	3°♌57'11		
	9946 Jul 26	11:29	0°♍		
evening max el	9946 Jul 26	17:50	0°♍15'58	18°47'07	
retrograde	9946 Aug 04	01:36	4°♍24'52		
evening set	9946 Aug 06	00:44	4°♍11'52		
desc. node	9946 Aug 12	06:46	1°♍09'14		
	9946 Aug 13	21:50	30°℞♌		
inferior conj	9946 Aug 14	02:55	29°♌50'46	-0°34'02	
minimum elong	9946 Aug 14	01:31	29°♌53'19	0°33'43	
min. Earth dist.	9946 Aug 17	06:02	27°♌34'51	0.56919 AU	
morning rise	9946 Aug 21	22:58	24°♌49'06		
direct	9946 Aug 27	14:13	23°♌32'07		
	9946 Sep 09	20:22	0°♍		
morning max el	9946 Sep 10	21:00	0°♍57'41	26°23'03	
	9946 Oct 01	08:07	0°♎		
asc. node	9946 Oct 05	05:15	7°♎25'40		
morning set	9946 Oct 09	15:30	16°♎33'45		
	9946 Oct 15	18:45	0°♏		
superior conj	9946 Oct 16	12:23	1°♏37'51	1°31'31	
minimum elong	9946 Oct 16	10:42	1°♏28'36	1°31'32	
max. Earth dist.	9946 Oct 17	03:25	3°♏01'19	1.31725 AU	
evening rise	9946 Oct 23	10:17	16°♏40'41		
	9946 Oct 30	02:15	0°♐		
desc. node	9946 Nov 08	04:50	15°♐42'51		
	9946 Nov 18	14:07	0°♑		
evening max el	9946 Nov 23	17:45	5°♑28'45	27°12'22	
retrograde	9946 Dec 07	14:54	12°♑40'31		
evening set	9946 Dec 14	14:35	10°♑30'02		
min. Earth dist.	9946 Dec 18	08:19	7°♑45'24	0.61007 AU	
inferior conj	9946 Dec 21	10:44	5°♑04'44	-3°23'57	
minimum elong	9946 Dec 21	17:25	4°♑50'16	3°21'14	
morning rise	9946 Dec 28	22:44	0°♑11'26		
	9946 Dec 29	17:46	30°℞♐		
direct	9946 Dec 31	02:52	29°♐52'08		
asc. node	9947 Jan 01	04:57	29°♐57'08		
	9947 Jan 01	11:34	0°♑		
morning max el	9947 Jan 07	06:31	3°♑27'35	17°56'14	
morning set	9947 Jan 22	21:40	28°♑01'17		
	9947 Jan 23	23:36	0°♒		
superior conj	9947 Feb 02	06:31	16°♒40'33	0°14'24	
minimum elong	9947 Feb 02	07:45	16°♒45'56	0°14'30	
behind sun begin	9947 Feb 02	04:17	16°♒30'47		
behind sun end	9947 Feb 02	11:13	17°♒01'04		
desc. node	9947 Feb 04	04:13	19°♒58'24		
max. Earth dist.	9947 Feb 09	19:02	29°♒25'52	1.42620 AU	
	9947 Feb 10	03:20	0°♓		
evening rise	9947 Feb 15	20:26	9°♓12'44		
	9947 Mar 01	13:30	0°♈		
evening max el	9947 Mar 20	09:34	24°♈26'04	22°13'08	
	9947 Mar 28	21:03	0°♉		
retrograde	9947 Mar 29	23:10	0°♉05'40		
asc. node	9947 Mar 30	03:22	0°♉05'31		
	9947 Mar 31	00:36	30°℞♈		

evening set	9947 Apr 03 14:24	28°♈11'31	
inferior conj	9947 Apr 08 22:00	21°♈50'29	2°41'27
minimum elong	9947 Apr 08 19:56	21°♈57'41	2°40'51
min. Earth dist.	9947 Apr 08 19:59	21°♈57'31	0.68580 AU
morning rise	9947 Apr 14 01:20	15°♈39'42	
direct	9947 Apr 18 19:42	13°♈38'41	
morning max el	9947 Apr 28 04:56	19°♈08'36	22°08'40
desc. node	9947 May 03 04:42	24°♈45'02	
	9947 May 07 07:07	0°♉	
	9947 May 27 17:27	0°♊	
morning set	9947 May 31 08:25	5°♊46'50	
max. Earth dist.	9947 Jun 05 18:09	14°♊40'21	1.41175 AU
superior conj	9947 Jun 13 12:17	28°♊03'20	-1°41'23
minimum elong	9947 Jun 13 18:30	28°♊30'54	1°41'05
	9947 Jun 14 14:29	0°♋	
evening rise	9947 Jun 23 23:25	17°♋12'22	
asc. node	9947 Jun 26 02:04	21°♋07'34	
	9947 Jul 01 00:10	0°♌	
evening max el	9947 Jul 10 01:07	12°♌50'29	18°15'59
retrograde	9947 Jul 17 06:15	16°♌28'44	
evening set	9947 Jul 19 12:17	16°♌08'11	
inferior conj	9947 Jul 26 19:03	11°♌26'30	0°59'37
minimum elong	9947 Jul 26 20:57	11°♌22'26	0°58'37
min. Earth dist.	9947 Jul 30 03:49	8°♌35'25	0.58985 AU
desc. node	9947 Jul 30 03:56	8°♌35'10	
morning rise	9947 Aug 03 02:19	5°♌50'38	
direct	9947 Aug 09 08:52	4°♌03'48	
morning max el	9947 Aug 23 17:57	11°♌51'01	27°28'05
	9947 Sep 06 23:26	0°♍	
asc. node	9947 Sep 22 02:07	27°♍08'57	
	9947 Sep 23 11:09	0°♎	
morning set	9947 Sep 23 23:13	1°♎03'22	
max. Earth dist.	9947 Sep 30 13:09	15°♎23'06	1.31500 AU
superior conj	9947 Oct 01 00:07	16°♎24'05	1°18'50
minimum elong	9947 Sep 30 21:57	16°♎12'04	1°18'38
	9947 Oct 07 04:17	0°♏	
evening rise	9947 Oct 07 18:00	1°♏13'33	
	9947 Oct 23 04:40	0°♐	
desc. node	9947 Oct 26 01:59	4°♐19'29	
evening max el	9947 Nov 05 17:31	17°♐06'55	26°20'13
retrograde	9947 Nov 19 15:32	24°♐12'07	
evening set	9947 Nov 26 04:58	22°♐27'36	
min. Earth dist.	9947 Nov 30 06:45	19°♐52'52	0.58896 AU
inferior conj	9947 Dec 03 10:44	17°♐30'08	-4°34'03
minimum elong	9947 Dec 03 18:33	17°♐15'24	4°31'40
morning rise	9947 Dec 11 10:40	12°♐59'08	
direct	9947 Dec 13 15:05	12°♐42'46	
asc. node	9947 Dec 19 02:02	14°♐31'27	
morning max el	9947 Dec 21 16:08	16°♐38'57	18°25'08
	9947 Dec 31 02:11	0°♑	
morning set	9948 Jan 06 13:41	12°♑02'51	
superior conj	9948 Jan 15 15:50	29°♑15'26	0°47'34
minimum elong	9948 Jan 15 18:49	29°♑29'08	0°47'30
	9948 Jan 16 01:32	0°♒	
desc. node	9948 Jan 22 01:04	10°♒41'07	
max. Earth dist.	9948 Jan 23 04:06	12°♒37'54	1.40585 AU
evening rise	9948 Jan 27 13:25	20°♒01'40	
	9948 Feb 02 18:14	0°♓	
	9948 Feb 23 19:52	0°♈	
evening max el	9948 Mar 02 00:32	8°♈11'34	23°33'18
retrograde	9948 Mar 12 17:49	14°♈31'23	
asc. node	9948 Mar 16 00:33	13°♈39'46	
evening set	9948 Mar 17 20:40	12°♈23'00	
min. Earth dist.	9948 Mar 22 16:40	6°♈43'48	0.68471 AU
inferior conj	9948 Mar 23 06:45	5°♈55'29	2°09'03
minimum elong	9948 Mar 23 04:33	6°♈03'02	2°08'22
	9948 Mar 28 07:51	30°♓	
morning rise	9948 Mar 28 12:26	29°♓50'43	
direct	9948 Apr 01 17:18	28°♓11'42	
	9948 Apr 06 13:14	0°♈	
morning max el	9948 Apr 09 22:31	2°♈53'32	20°47'28
desc. node	9948 Apr 19 01:33	13°♈59'01	
	9948 Apr 30 04:27	0°♉	
morning set	9948 May 09 18:27	14°♉37'36	
max. Earth dist.	9948 May 17 23:30	27°♉39'34	1.43164 AU
	9948 May 19 10:03	0°♊	
superior conj	9948 May 24 18:57	8°♊53'55	-2°04'07
minimum elong	9948 May 25 00:07	9°♊15'41	2°04'12
evening rise	9948 Jun 05 19:11	29°♊44'26	
	9948 Jun 05 22:41	0°♋	
asc. node	9948 Jun 11 23:04	10°♋34'28	
evening max el	9948 Jun 22 13:20	25°♋53'10	18°04'38
retrograde	9948 Jun 29 03:09	29°♋15'55	
evening set	9948 Jul 01 16:57	28°♋44'34	
inferior conj	9948 Jul 08 06:53	23°♋43'13	2°06'57
minimum elong	9948 Jul 08 09:44	23°♋36'10	2°05'46
min. Earth dist.	9948 Jul 11 09:55	20°♋39'39	0.61252 AU
morning rise	9948 Jul 15 00:01	17°♋43'21	
desc. node	9948 Jul 16 01:05	17°♋04'13	
direct	9948 Jul 21 15:33	15°♋28'05	
morning max el	9948 Aug 04 21:39	23°♋28'25	27°55'56
	9948 Aug 10 17:47	0°♌	
	9948 Aug 30 05:57	0°♍	
morning set	9948 Sep 07 02:10	15°♍16'23	
asc. node	9948 Sep 07 22:59	17°♍04'20	
max. Earth dist.	9948 Sep 12 21:00	27°♍36'27	1.31755 AU
	9948 Sep 13 23:09	0°♎	
superior conj	9948 Sep 14 10:35	1°♎02'55	1°01'00
minimum elong	9948 Sep 14 08:23	0°♎50'48	1°00'37
evening rise	9948 Sep 21 04:34	15°♎51'52	
	9948 Sep 28 03:00	0°♏	
desc. node	9948 Oct 11 23:08	21°♏56'06	
evening max el	9948 Oct 17 09:09	27°♏54'48	24°58'47
	9948 Oct 19 17:43	0°♐	
retrograde	9948 Oct 31 05:28	4°♐52'39	
evening set	9948 Nov 05 20:11	3°♐41'35	
min. Earth dist.	9948 Nov 10 20:48	0°♐58'42	0.56931 AU
	9948 Nov 12 08:55	30°♏	
inferior conj	9948 Nov 13 14:55	29°♏10'28	-5°26'48
minimum elong	9948 Nov 13 20:21	29°♏01'32	5°25'46
morning rise	9948 Nov 21 22:48	25°♏01'50	
direct	9948 Nov 24 08:55	24°♏45'09	
morning max el	9948 Dec 03 16:13	29°♏12'00	19°15'38
	9948 Dec 04 11:28	0°♐	
asc. node	9948 Dec 04 23:03	0°♐30'44	
morning set	9948 Dec 20 14:40	26°♐28'23	
	9948 Dec 22 09:03	0°♑	
superior conj	9948 Dec 28 18:34	12°♑39'29	1°12'20
minimum elong	9948 Dec 28 21:38	12°♑54'19	1°12'22
max. Earth dist.	9949 Jan 04 09:55	25°♑07'40	1.38391 AU
	9949 Jan 07 03:22	0°♒	
desc. node	9949 Jan 07 21:58	1°♒21'31	
evening rise	9949 Jan 08 04:07	1°♒48'18	
	9949 Jan 25 23:26	0°♓	
evening max el	9949 Feb 12 13:58	22°♓00'19	24°51'49
retrograde	9949 Feb 24 08:37	28°♓51'51	
evening set	9949 Mar 01 23:37	26°♓31'17	
asc. node	9949 Mar 02 21:45	25°♓40'35	

min. Earth dist.	9949 Mar 06 11:53	21°♓26'47	0.67951 AU
inferior conj	9949 Mar 07 13:39	20°♓01'38	1°27'35
minimum elong	9949 Mar 07 11:48	20°♓07'45	1°27'01
morning rise	9949 Mar 13 00:14	14°♓04'13	
direct	9949 Mar 16 16:29	12°♓46'32	
morning max el	9949 Mar 23 23:43	16°♓50'11	19°38'59
	9949 Apr 03 08:54	0°♈	
greatest brilliancy	9949 Apr 05 16:48	3°♈22'54	-0.6m
desc. node	9949 Apr 05 22:22	3°♈43'17	
morning set	9949 Apr 18 16:49	23°♈02'14	
	9949 Apr 23 04:52	0°♉	
max. Earth dist.	9949 Apr 30 11:26	11°♉24'14	1.44654 AU
superior conj	9949 May 05 01:14	18°♉42'16	-2°12'50
minimum elong	9949 May 05 01:05	18°♉41'37	2°13'08
	9949 May 11 23:35	0°♊	
evening rise	9949 May 18 19:02	11°♊22'44	
asc. node	9949 May 29 20:06	29°♊38'39	
	9949 May 30 01:38	0°♋	
evening max el	9949 Jun 06 03:02	9°♋15'27	18°12'11
retrograde	9949 Jun 12 11:51	12°♋37'09	
evening set	9949 Jun 15 09:27	11°♋52'37	
inferior conj	9949 Jun 21 10:25	6°♋33'10	2°49'48
minimum elong	9949 Jun 21 12:45	6°♋26'41	2°48'56
min. Earth dist.	9949 Jun 24 01:11	3°♋39'53	0.63434 AU
morning rise	9949 Jun 27 14:32	0°♋19'52	
	9949 Jun 28 01:08	30°℞♊	
desc. node	9949 Jul 02 22:11	27°♊50'49	
direct	9949 Jul 04 07:51	27°♊44'20	
	9949 Jul 11 05:24	0°♋	
morning max el	9949 Jul 18 05:56	5°♋47'11	27°45'39
	9949 Aug 05 14:50	0°♌	
morning set	9949 Aug 21 22:03	29°♌06'24	
	9949 Aug 22 08:45	0°♍	
asc. node	9949 Aug 25 19:49	7°♍06'55	
max. Earth dist.	9949 Aug 26 23:12	9°♍31'13	1.32514 AU
superior conj	9949 Aug 29 17:53	15°♍28'33	0°38'19
minimum elong	9949 Aug 29 16:11	15°♍19'24	0°37'51
	9949 Sep 05 10:29	0°♎	
evening rise	9949 Sep 05 16:05	0°♎29'57	
	9949 Sep 21 22:53	0°♏	
desc. node	9949 Sep 28 20:21	8°♏09'03	
evening max el	9949 Sep 28 20:04	8°♏08'22	23°20'26
retrograde	9949 Oct 12 06:30	14°♏50'26	
evening set	9949 Oct 16 11:27	14°♏11'56	
min. Earth dist.	9949 Oct 23 05:48	11°♏02'31	0.55427 AU
inferior conj	9949 Oct 24 23:08	10°♏02'02	-5°42'15
minimum elong	9949 Oct 24 21:33	10°♏04'22	5°41'56
morning rise	9949 Nov 02 09:30	6°♏10'18	
direct	9949 Nov 05 07:46	5°♏49'36	
morning max el	9949 Nov 16 03:26	10°♏55'54	20°28'53
asc. node	9949 Nov 21 20:01	17°♏38'16	
	9949 Nov 29 06:45	0°♐	
morning set	9949 Dec 04 21:27	11°♐07'49	
superior conj	9949 Dec 12 10:00	26°♐38'15	1°28'54
minimum elong	9949 Dec 12 12:14	26°♐49'33	1°29'07
	9949 Dec 14 02:02	0°♑	
max. Earth dist.	9949 Dec 17 17:22	7°♑08'40	1.36279 AU
evening rise	9949 Dec 21 14:13	14°♑25'00	
desc. node	9949 Dec 25 18:55	21°♑54'54	
	9949 Dec 30 13:53	0°♒	
	9950 Jan 20 17:44	0°♓	
evening max el	9950 Jan 26 03:23	5°♓49'09	26°01'40
retrograde	9950 Feb 07 18:28	13°♓00'42	
evening set	9950 Feb 13 21:34	10°♓31'00	
asc. node	9950 Feb 17 18:56	6°♓26'43	
min. Earth dist.	9950 Feb 18 03:18	6°♓01'11	0.67035 AU
inferior conj	9950 Feb 19 16:45	4°♓04'32	0°37'14
minimum elong	9950 Feb 19 15:48	4°♓07'28	0°37'04
	9950 Feb 23 06:21	30°℞♒	
morning rise	9950 Feb 25 10:40	28°♒16'22	
direct	9950 Feb 28 15:39	27°♒17'42	
	9950 Mar 06 08:32	0°♓	
morning max el	9950 Mar 07 08:25	0°♓55'34	18°46'02
desc. node	9950 Mar 23 19:10	23°♓49'27	
	9950 Mar 27 18:16	0°♈	
morning set	9950 Mar 29 03:24	2°♈09'26	
max. Earth dist.	9950 Apr 13 04:51	25°♈41'47	1.45484 AU
superior conj	9950 Apr 14 12:07	27°♈44'19	-2°02'05
minimum elong	9950 Apr 14 04:48	27°♈15'40	2°01'50
	9950 Apr 15 22:41	0°♉	
evening rise	9950 Apr 29 19:22	22°♉01'41	
	9950 May 04 18:14	0°♊	
greatest brilliancy	9950 May 06 10:02	2°♊39'39	-0.9m
asc. node	9950 May 16 17:12	18°♊12'18	
evening max el	9950 May 20 15:15	22°♊49'33	18°37'50
retrograde	9950 May 27 04:20	26°♊23'49	
evening set	9950 May 30 09:48	25°♊24'40	
inferior conj	9950 Jun 05 01:40	19°♊48'32	3°12'33
minimum elong	9950 Jun 05 02:52	19°♊44'51	3°12'02
min. Earth dist.	9950 Jun 07 01:29	17°♊23'09	0.65324 AU
morning rise	9950 Jun 10 19:09	13°♊29'30	
direct	9950 Jun 17 07:55	10°♊45'07	
desc. node	9950 Jun 19 19:14	11°♊05'44	
morning max el	9950 Jun 30 16:22	18°♊38'07	27°02'09
	9950 Jul 10 06:28	0°♋	
	9950 Jul 29 14:20	0°♌	
morning set	9950 Aug 05 08:07	12°♌26'13	
max. Earth dist.	9950 Aug 09 16:32	21°♌02'02	1.33778 AU
asc. node	9950 Aug 12 16:41	27°♌12'51	
superior conj	9950 Aug 13 19:54	29°♌35'15	0°11'15
minimum elong	9950 Aug 13 19:19	29°♌32'14	0°10'53
behind sun begin	9950 Aug 13 15:09	29°♌10'17	
behind sun end	9950 Aug 13 23:30	29°♌54'14	
	9950 Aug 14 00:36	0°♍	
evening rise	9950 Aug 21 02:41	15°♍02'46	
	9950 Aug 28 14:44	0°♎	
evening max el	9950 Sep 10 10:38	18°♎21'43	21°42'18
desc. node	9950 Sep 15 17:35	22°♎29'39	
retrograde	9950 Sep 22 20:31	24°♎31'44	
evening set	9950 Sep 25 15:48	24°♎13'59	
inferior conj	9950 Oct 04 17:33	20°♎16'28	-5°02'50
minimum elong	9950 Oct 04 08:54	20°♎28'33	5°01'00
min. Earth dist.	9950 Oct 04 13:14	20°♎22'29	0.54680 AU
morning rise	9950 Oct 13 03:09	16°♎28'01	
direct	9950 Oct 16 17:52	15°♎59'33	
morning max el	9950 Oct 29 01:23	21°♎49'43	22°02'47
	9950 Nov 05 00:07	0°♏	
asc. node	9950 Nov 08 16:58	5°♏39'18	
morning set	9950 Nov 19 07:40	25°♏54'38	
	9950 Nov 21 06:03	0°♐	
superior conj	9950 Nov 26 10:25	11°♐01'16	1°37'57
minimum elong	9950 Nov 26 11:27	11°♐06'42	1°38'17
max. Earth dist.	9950 Nov 30 07:06	19°♐01'55	1.34451 AU
evening rise	9950 Dec 04 16:07	27°♐42'23	
	9950 Dec 05 20:54	0°♑	
desc. node	9950 Dec 12 15:56	12°♑16'36	
	9950 Dec 23 20:32	0°♒	
evening max el	9951 Jan 08 16:54	19°♒30'16	26°55'26

retrograde	9951 Jan 21	22:33	26°♒50'54	
evening set	9951 Jan 28	12:38	24°♒16'38	
min. Earth dist.	9951 Feb 01	12:37	20°♒21'04	0.65742 AU
inferior conj	9951 Feb 03	13:51	17°♒59'18	-0°21'47
minimum elong	9951 Feb 03	14:27	17°♒57'32	0°21'13
asc. node	9951 Feb 04	16:07	16°♒44'28	
morning rise	9951 Feb 09	17:29	12°♒22'50	
direct	9951 Feb 12	12:43	11°♒40'00	
morning max el	9951 Feb 18	22:46	15°♒04'03	18°09'41
	9951 Mar 01	20:34	0°♓	
morning set	9951 Mar 09	17:35	12°♓40'44	
desc. node	9951 Mar 10	15:59	14°♓11'25	
	9951 Mar 20	12:48	0°♈	
superior conj	9951 Mar 24	18:36	6°♈41'31	-1°32'12
minimum elong	9951 Mar 24	09:12	6°♈04'34	1°31'13
max. Earth dist.	9951 Mar 27	00:54	10°♈14'29	1.45574 AU
	9951 Apr 08	17:17	0°♉	
evening rise	9951 Apr 09	21:18	1°♉48'50	
greatest brilliancy	9951 Apr 22	00:27	20°♉29'57	-0.7m
	9951 Apr 28	14:23	0°♊	
asc. node	9951 May 03	14:20	6°♊05'04	
evening max el	9951 May 03	23:35	6°♊28'48	19°20'31
retrograde	9951 May 11	01:14	10°♊28'06	
evening set	9951 May 14	14:58	9°♊13'38	
inferior conj	9951 May 20	01:08	3°♊22'18	3°19'19
minimum elong	9951 May 20	01:08	3°♊22'19	3°18'58
min. Earth dist.	9951 May 21	09:50	1°♊35'37	0.66812 AU
	9951 May 22	16:16	30°℞♉	
morning rise	9951 May 25	10:55	27°♉02'20	
direct	9951 May 31	14:25	24°♉20'14	
desc. node	9951 Jun 06	16:16	26°♉24'39	
	9951 Jun 11	05:47	0°♊	
morning max el	9951 Jun 13	02:49	1°♊49'15	25°53'23
	9951 Jul 04	08:44	0°♋	
morning set	9951 Jul 19	04:35	25°♋05'20	
	9951 Jul 21	19:45	0°♌	
max. Earth dist.	9951 Jul 22	23:27	2°♌11'52	1.35512 AU
superior conj	9951 Jul 28	13:57	13°♌15'05	-0°19'26
minimum elong	9951 Jul 28	15:07	13°♌21'00	0°19'32
asc. node	9951 Jul 30	13:34	17°♌17'37	
evening rise	9951 Aug 05	10:12	29°♌23'24	
	9951 Aug 05	17:20	0°♍	
evening max el	9951 Aug 23	12:35	29°♍06'44	20°18'10
	9951 Aug 24	11:00	0°♎	
desc. node	9951 Sep 02	14:49	4°♎28'21	
retrograde	9951 Sep 03	09:09	4°♎29'53	
evening set	9951 Sep 05	08:54	4°♎19'49	
inferior conj	9951 Sep 14	11:11	0°♎21'55	-3°31'54
minimum elong	9951 Sep 14	02:06	0°♎35'15	3°28'56
	9951 Sep 15	02:03	30°℞♍	
min. Earth dist.	9951 Sep 15	22:13	29°♍30'26	0.54857 AU
morning rise	9951 Sep 22	18:32	26°♍15'43	
direct	9951 Sep 27	03:16	25°♍34'43	
	9951 Oct 08	03:16	0°♎	
morning max el	9951 Oct 10	14:41	2°♎08'03	23°48'56
asc. node	9951 Oct 26	13:53	24°♎20'52	
	9951 Oct 29	13:50	0°♏	
morning set	9951 Nov 03	19:22	10°♏43'13	
superior conj	9951 Nov 10	16:51	25°♏39'58	1°40'13
minimum elong	9951 Nov 10	16:40	25°♏38'59	1°40'32
	9951 Nov 12	17:07	0°♐	
max. Earth dist.	9951 Nov 13	04:50	1°♐02'35	1.33023 AU
evening rise	9951 Nov 18	06:06	11°♐31'11	
	9951 Nov 28	03:52	0°♑	

desc. node	9951 Nov 29	13:01	2°♑20'58	
	9951 Dec 19	09:18	0°♒	
evening max el	9951 Dec 22	05:27	2°♒52'47	27°25'58
retrograde	9952 Jan 04	20:22	10°♒14'21	
evening set	9952 Jan 11	18:30	7°♒42'03	
min. Earth dist.	9952 Jan 15	13:43	4°♒18'45	0.64103 AU
inferior conj	9952 Jan 18	02:28	1°♒40'08	-1°28'39
minimum elong	9952 Jan 18	05:15	1°♒32'51	1°27'07
	9952 Jan 19	17:38	30°℞♑	
asc. node	9952 Jan 22	13:16	27°♑33'12	
morning rise	9952 Jan 24	17:51	26°♑18'12	
direct	9952 Jan 27	05:10	25°♑47'29	
morning max el	9952 Feb 02	16:07	29°♑08'38	17°50'25
	9952 Feb 03	12:01	0°♒	
morning set	9952 Feb 19	12:05	24°♒35'06	
	9952 Feb 22	16:55	0°♓	
desc. node	9952 Feb 25	12:48	4°♓44'31	
superior conj	9952 Mar 03	15:11	16°♓23'48	-0°50'56
minimum elong	9952 Mar 03	09:35	16°♓01'09	0°50'02
max. Earth dist.	9952 Mar 08	20:19	24°♓43'57	1.44922 AU
	9952 Mar 12	04:40	0°♈	
evening rise	9952 Mar 19	09:58	11°♈10'53	
	9952 Mar 31	21:23	0°♉	
evening max el	9952 Apr 16	02:37	20°♉10'22	20°18'29
asc. node	9952 Apr 19	11:31	23°♉04'55	
retrograde	9952 Apr 23	23:57	24°♉44'52	
evening set	9952 Apr 27	22:41	23°♉14'55	
inferior conj	9952 May 03	06:04	17°♉10'08	3°13'06
minimum elong	9952 May 03	05:01	17°♉13'44	3°12'43
min. Earth dist.	9952 May 04	00:30	16°♉07'11	0.67855 AU
morning rise	9952 May 08	11:05	10°♉52'11	
direct	9952 May 14	02:36	8°♉21'25	
desc. node	9952 May 23	13:14	13°♉18'04	
morning max el	9952 May 25	12:29	15°♉11'48	24°29'00
	9952 Jun 06	15:44	0°♊	
	9952 Jun 26	06:36	0°♋	
morning set	9952 Jun 30	06:51	6°♋52'08	
max. Earth dist.	9952 Jul 03	22:05	13°♋19'56	1.37617 AU
superior conj	9952 Jul 10	20:51	26°♋20'21	-0°52'11
minimum elong	9952 Jul 11	00:14	26°♋36'41	0°51'58
	9952 Jul 12	18:01	0°♌	
asc. node	9952 Jul 16	10:30	7°♌17'37	
evening rise	9952 Jul 19	12:14	13°♌25'17	
	9952 Jul 28	08:20	0°♍	
evening max el	9952 Aug 05	04:12	10°♍37'58	19°14'12
retrograde	9952 Aug 14	08:34	15°♍11'30	
evening set	9952 Aug 16	04:58	15°♍01'10	
desc. node	9952 Aug 19	12:03	13°♍56'30	
inferior conj	9952 Aug 24	18:02	10°♍50'58	-1°37'39
minimum elong	9952 Aug 24	13:43	10°♍58'10	1°36'07
min. Earth dist.	9952 Aug 27	11:02	9°♍02'59	0.55950 AU
morning rise	9952 Sep 01	19:35	6°♍10'32	
direct	9952 Sep 06	23:50	5°♍08'54	
morning max el	9952 Sep 21	02:51	12°♍19'02	25°31'59
	9952 Oct 04	19:31	0°♎	
asc. node	9952 Oct 12	10:45	13°♎32'46	
morning set	9952 Oct 18	06:49	25°♎28'26	
	9952 Oct 20	09:06	0°♏	
superior conj	9952 Oct 25	02:54	10°♏26'52	1°36'20
minimum elong	9952 Oct 25	01:41	10°♏20'11	1°36'30
max. Earth dist.	9952 Oct 26	09:29	13°♏15'20	1.32056 AU
evening rise	9952 Nov 01	05:01	25°♏43'05	
	9952 Nov 03	07:18	0°♐	
desc. node	9952 Nov 15	10:07	22°♐00'03	

	9952 Nov 20	15:25	0°♑		
evening max el	9952 Dec 03	15:01	15°♑43'47	27°26'59	
retrograde	9952 Dec 17	11:06	23°♑00'45		
evening set	9952 Dec 24	12:11	20°♑39'20		
min. Earth dist.	9952 Dec 28	05:01	17°♑43'05	0.62183 AU	
inferior conj	9952 Dec 31	03:34	14°♑58'54	-2°41'18	
minimum elong	9952 Dec 31	08:53	14°♑46'29	2°38'52	
morning rise	9953 Jan 07	08:00	9°♑54'26		
asc. node	9953 Jan 08	10:24	9°♑37'59		
direct	9953 Jan 09	13:43	9°♑32'08		
morning max el	9953 Jan 16	09:11	12°♑59'59	17°48'47	
	9953 Jan 27	22:40	0°♒		
morning set	9953 Feb 01	05:00	7°♒32'56		
desc. node	9953 Feb 11	09:38	25°♒24'07		
superior conj	9953 Feb 12	11:46	27°♒15'03	-0°08'11	
minimum elong	9953 Feb 12	11:00	27°♒11'50	0°07'49	
behind sun begin	9953 Feb 12	03:15	26°♒38'58		
behind sun end	9953 Feb 12	18:46	27°♒44'38		
	9953 Feb 14	02:58	0°♓		
max. Earth dist.	9953 Feb 19	12:18	8°♓52'06	1.43610 AU	
evening rise	9953 Feb 27	00:09	20°♓44'38		
	9953 Mar 05	01:14	0°♈		
	9953 Mar 26	11:56	0°♉		
evening max el	9953 Mar 30	00:03	3°♉52'44	21°28'51	
asc. node	9953 Apr 06	08:43	8°♉56'18		
retrograde	9953 Apr 07	22:17	9°♉08'27		
evening set	9953 Apr 12	07:05	7°♉23'11		
inferior conj	9953 Apr 17	14:02	1°♉07'18	2°55'53	
minimum elong	9953 Apr 17	12:14	1°♉13'34	2°55'22	
min. Earth dist.	9953 Apr 17	19:17	0°♉49'00	0.68442 AU	
	9953 Apr 18	09:24	30°℞♈		
morning rise	9953 Apr 22	17:10	24°♈53'18		
direct	9953 Apr 27	19:23	22°♈40'09		
morning max el	9953 May 07	22:32	28°♈40'48	22°59'07	
	9953 May 09	04:59	0°♉		
desc. node	9953 May 10	10:09	1°♉20'02		
	9953 May 31	08:48	0°♊		
morning set	9953 Jun 11	09:36	17°♊32'57		
max. Earth dist.	9953 Jun 15	18:33	24°♊55'58	1.39893 AU	
	9953 Jun 18	16:27	0°♋		
superior conj	9953 Jun 23	12:36	8°♋41'44	-1°24'30	
minimum elong	9953 Jun 23	18:06	9°♋06'57	1°24'08	
evening rise	9953 Jul 03	05:42	27°♋00'23		
asc. node	9953 Jul 03	07:29	27°♋08'52		
	9953 Jul 04	19:23	0°♌		
evening max el	9953 Jul 19	07:00	22°♌52'56	18°31'24	
retrograde	9953 Jul 27	02:04	26°♌46'43		
evening set	9953 Jul 29	03:50	26°♌31'02		
inferior conj	9953 Aug 05	21:41	22°♌01'39	0°08'46	
minimum elong	9953 Aug 05	22:00	22°♌01'02	0°08'22	
transit middle	9953 Aug 05	22:00	22°♌01'02	0°08'22	
transit begin	9953 Aug 05	18:56	22°♌07'01		
transit end	9953 Aug 06	01:04	21°♌55'02		
desc. node	9953 Aug 06	09:14	21°♌39'04		
min. Earth dist.	9953 Aug 09	05:08	19°♌27'56	0.57754 AU	
morning rise	9953 Aug 13	12:38	16°♌44'22		
direct	9953 Aug 19	11:13	15°♌14'34		
morning max el	9953 Sep 02	19:39	22°♌51'06	26°54'48	
	9953 Sep 09	04:48	0°♍		
	9953 Sep 27	18:04	0°♎		
asc. node	9953 Sep 29	07:36	3°♎06'56		
morning set	9953 Oct 02	16:24	10°♎05'42		
superior conj	9953 Oct 09	14:35	25°♎15'51	1°26'47	
minimum elong	9953 Oct 09	12:39	25°♎05'07	1°26'44	
max. Earth dist.	9953 Oct 09	18:19	25°♎36'36	1.31567 AU	
	9953 Oct 11	17:46	0°♏		
evening rise	9953 Oct 16	10:14	10°♏11'03		
	9953 Oct 26	13:45	0°♐		
desc. node	9953 Nov 02	07:15	11°♐03'49		
evening max el	9953 Nov 15	19:15	27°♐52'07	26°54'21	
	9953 Nov 18	05:22	0°♑		
retrograde	9953 Nov 29	17:27	5°♑01'28		
evening set	9953 Dec 06	13:50	3°♑01'07		
min. Earth dist.	9953 Dec 10	09:44	0°♑22'17	0.60101 AU	
	9953 Dec 10	20:58	30°℞♐		
inferior conj	9953 Dec 13	13:45	27°♐47'11	-3°54'50	
minimum elong	9953 Dec 13	21:11	27°♐31'58	3°52'07	
morning rise	9953 Dec 21	07:08	23°♐02'59		
direct	9953 Dec 23	10:39	22°♐45'26		
asc. node	9953 Dec 26	07:26	23°♐18'11		
morning max el	9953 Dec 30	22:33	26°♐29'00	18°05'58	
	9954 Jan 02	24:00	0°♑		
morning set	9954 Jan 15	14:06	21°♑15'55		
	9954 Jan 20	06:39	0°♒		
superior conj	9954 Jan 25	08:47	9°♒15'11	0°29'27	
minimum elong	9954 Jan 25	11:00	9°♒25'07	0°29'27	
desc. node	9954 Jan 29	06:29	16°♒06'50		
max. Earth dist.	9954 Feb 01	23:46	22°♒26'49	1.41790 AU	
	9954 Feb 06	13:55	0°♓		
evening rise	9954 Feb 07	05:20	1°♓02'10		
	9954 Feb 26	12:30	0°♈		
evening max el	9954 Mar 12	17:00	17°♈37'16	22°47'06	
retrograde	9954 Mar 22	18:33	23°♈34'33		
asc. node	9954 Mar 24	05:55	23°♈23'55		
evening set	9954 Mar 27	14:33	21°♈34'26		
inferior conj	9954 Apr 01	23:02	15°♈10'21	2°28'50	
minimum elong	9954 Apr 01	20:51	15°♈17'54	2°28'11	
min. Earth dist.	9954 Apr 01	15:55	15°♈35'03	0.68585 AU	
morning rise	9954 Apr 07	03:01	9°♈01'48		
direct	9954 Apr 11	15:38	7°♈09'49		
morning max el	9954 Apr 20	12:15	12°♈18'20	21°32'46	
desc. node	9954 Apr 27	07:00	20°♈11'46		
	9954 May 04	11:45	0°♉		
morning set	9954 May 22	09:27	26°♉59'55		
	9954 May 24	06:36	0°♊		
max. Earth dist.	9954 May 28	19:51	7°♊24'17	1.42070 AU	
superior conj	9954 Jun 05	08:38	20°♊08'34	-1°52'19	
minimum elong	9954 Jun 05	14:51	20°♊35'32	1°52'09	
	9954 Jun 10	22:40	0°♋		
evening rise	9954 Jun 16	10:41	9°♋58'37		
asc. node	9954 Jun 20	04:28	16°♋46'21		
	9954 Jun 28	02:36	0°♌		
evening max el	9954 Jul 02	16:56	5°♌41'27	18°08'49	
retrograde	9954 Jul 09	13:59	9°♌10'52		
evening set	9954 Jul 11	23:27	8°♌45'56		
inferior conj	9954 Jul 18	22:37	3°♌55'47	1°31'24	
minimum elong	9954 Jul 19	01:10	3°♌49'58	1°30'12	
min. Earth dist.	9954 Jul 22	06:07	0°♌56'35	0.59949 AU	
	9954 Jul 23	09:18	30°℞♋		
desc. node	9954 Jul 24	06:24	29°♋19'11		
morning rise	9954 Jul 25	23:55	28°♋08'44		
direct	9954 Aug 01	11:23	26°♋09'04		
	9954 Aug 11	03:44	0°♌		
morning max el	9954 Aug 15	19:21	4°♌02'19	27°44'37	
	9954 Sep 03	22:58	0°♍		
asc. node	9954 Sep 16	04:27	22°♍56'07		
morning set	9954 Sep 16	22:19	24°♍29'04		
	9954 Sep 19	12:38	0°♎		
max. Earth dist.	9954 Sep 23	03:44	7°♎56'34	1.31555 AU	

superior conj	9954 Sep 24 02:00	9°♎59'57	1°11'54
minimum elong	9954 Sep 23 23:46	9°♎47'32	1°11'36
evening rise	9954 Sep 30 19:25	24°♎47'31	
	9954 Oct 03 06:40	0°♏	
desc. node	9954 Oct 20 04:25	29°♏17'29	
	9954 Oct 20 16:58	0°♐	
evening max el	9954 Oct 28 15:44	9°♐09'06	25°48'36
retrograde	9954 Nov 11 13:26	16°♐10'37	
evening set	9954 Nov 17 18:45	14°♐40'06	
min. Earth dist.	9954 Nov 22 04:18	12°♐04'07	0.58030 AU
inferior conj	9954 Nov 25 05:34	9°♐54'31	-4°59'38
minimum elong	9954 Nov 25 12:56	9°♐41'26	4°57'44
morning rise	9954 Dec 03 09:28	5°♐32'50	
direct	9954 Dec 05 15:38	5°♐16'39	
asc. node	9954 Dec 13 04:27	8°♐30'07	
morning max el	9954 Dec 14 04:27	9°♐24'50	18°43'50
	9954 Dec 27 14:13	0°♑	
morning set	9954 Dec 30 10:22	5°♑29'06	

superior conj	9955 Jan 08 02:04	22°♑12'21	0°59'07
minimum elong	9955 Jan 08 05:14	22°♑27'16	0°59'04
	9955 Jan 12 07:18	0°♒	
max. Earth dist.	9955 Jan 15 07:23	5°♒21'34	1.39661 AU
desc. node	9955 Jan 16 03:22	6°♒49'00	
evening rise	9955 Jan 19 07:37	12°♒15'59	
	9955 Jan 30 09:22	0°♓	
	9955 Feb 21 22:04	0°♈	
evening max el	9955 Feb 23 07:14	1°♈24'57	24°07'25
retrograde	9955 Mar 06 11:32	7°♈58'47	
asc. node	9955 Mar 11 03:06	6°♈17'51	
evening set	9955 Mar 11 19:35	5°♈44'58	
min. Earth dist.	9955 Mar 16 12:10	0°♈20'40	0.68300 AU
	9955 Mar 16 18:18	30°℞♓	
inferior conj	9955 Mar 17 07:13	29°♓16'15	1°52'33
minimum elong	9955 Mar 17 05:06	29°♓23'25	1°51'54
morning rise	9955 Mar 22 14:40	23°♓14'33	
direct	9955 Mar 26 14:08	21°♓44'38	
morning max el	9955 Apr 03 08:55	26°♓08'18	20°16'38
	9955 Apr 06 20:49	0°♈	
desc. node	9955 Apr 14 03:50	9°♈39'51	
	9955 Apr 27 21:24	0°♉	
morning set	9955 May 01 12:02	5°♉32'31	
max. Earth dist.	9955 May 11 04:46	20°♉47'10	1.43870 AU
	9955 May 16 20:59	0°♊	
superior conj	9955 May 17 04:58	0°♊32'53	-2°09'55
minimum elong	9955 May 17 08:25	0°♊47'07	2°10'09
evening rise	9955 May 29 22:36	22°♊09'39	
	9955 Jun 03 11:13	0°♋	
asc. node	9955 Jun 07 01:31	6°♋04'58	
evening max el	9955 Jun 16 06:14	18°♋54'09	18°05'34
retrograde	9955 Jun 22 16:36	22°♋14'40	
evening set	9955 Jun 25 09:48	21°♋37'48	
inferior conj	9955 Jul 01 17:42	16°♋28'16	2°27'50
minimum elong	9955 Jul 01 20:27	16°♋21'05	2°26'45
min. Earth dist.	9955 Jul 04 15:53	13°♋26'54	0.62205 AU
morning rise	9955 Jul 08 05:05	10°♋21'40	
desc. node	9955 Jul 11 03:31	8°♋42'16	
direct	9955 Jul 14 22:10	7°♋56'55	
morning max el	9955 Jul 29 01:24	15°♋58'49	27°56'04
	9955 Aug 09 13:23	0°♌	
	9955 Aug 27 14:45	0°♍	
morning set	9955 Aug 31 22:35	8°♍33'22	
asc. node	9955 Sep 03 01:18	12°♍55'21	
max. Earth dist.	9955 Sep 06 09:54	20°♍04'36	1.32028 AU
superior conj	9955 Sep 08 11:22	24°♍34'02	0°51'58
minimum elong	9955 Sep 08 09:19	24°♍22'48	0°51'31
	9955 Sep 10 22:42	0°♎	
evening rise	9955 Sep 15 06:39	9°♎26'51	
	9955 Sep 25 17:50	0°♏	
desc. node	9955 Oct 07 01:37	16°♏21'49	
evening max el	9955 Oct 10 04:34	19°♏38'59	24°17'49
retrograde	9955 Oct 23 21:35	26°♏31'14	
evening set	9955 Oct 28 23:14	25°♏34'35	
min. Earth dist.	9955 Nov 03 15:23	22°♏42'44	0.56227 AU
inferior conj	9955 Nov 06 00:55	21°♏13'35	-5°39'08
minimum elong	9955 Nov 06 03:50	21°♏09'02	5°38'38
morning rise	9955 Nov 14 10:32	17°♏13'28	
direct	9955 Nov 17 01:20	16°♏55'25	
morning max el	9955 Nov 26 23:17	21°♏37'31	19°44'04
asc. node	9955 Nov 30 01:27	25°♏00'13	
	9955 Dec 03 16:07	0°♐	
morning set	9955 Dec 14 14:09	20°♐01'35	
	9955 Dec 19 12:11	0°♑	

superior conj	9955 Dec 22 10:43	5°♑52'41	1°20'21
minimum elong	9955 Dec 22 13:30	6°♑06'26	1°20'27
max. Earth dist.	9955 Dec 28 13:34	17°♑38'03	1.37469 AU
evening rise	9956 Jan 01 06:55	24°♑24'32	
desc. node	9956 Jan 03 00:17	27°♑26'51	
	9956 Jan 04 11:42	0°♒	
	9956 Jan 24 01:33	0°♓	
evening max el	9956 Feb 05 20:26	15°♓13'50	25°23'04
retrograde	9956 Feb 18 00:14	22°♓15'13	
evening set	9956 Feb 23 20:37	19°♓50'01	
asc. node	9956 Feb 26 00:17	17°♓42'44	
min. Earth dist.	9956 Feb 28 05:54	15°♓00'38	0.67607 AU
inferior conj	9956 Feb 29 12:43	13°♓21'10	1°07'16
minimum elong	9956 Feb 29 11:11	13°♓26'08	1°06'51
morning rise	9956 Mar 06 02:09	7°♓27'44	
direct	9956 Mar 09 13:26	6°♓18'34	
morning max el	9956 Mar 16 13:32	10°♓09'30	19°14'35
greatest brilliancy	9956 Mar 29 12:49	27°♓19'35	-0.7m
desc. node	9956 Mar 31 00:37	29°♓34'03	
	9956 Mar 31 07:30	0°♈	
morning set	9956 Apr 09 12:45	14°♈07'21	
	9956 Apr 19 18:00	0°♉	
max. Earth dist.	9956 Apr 22 19:36	4°♉48'48	1.45088 AU
superior conj	9956 Apr 26 01:41	9°♉57'15	-2°10'50
minimum elong	9956 Apr 25 22:19	9°♉43'55	2°10'58
	9956 May 08 11:26	0°♊	
evening rise	9956 May 10 12:43	3°♊23'00	
asc. node	9956 May 23 22:37	24°♊57'17	
	9956 May 27 16:24	0°♋	
evening max el	9956 May 29 19:33	2°♋21'45	18°20'55
retrograde	9956 Jun 05 05:14	5°♋47'37	
evening set	9956 Jun 08 06:05	4°♋57'02	
	9956 Jun 13 16:21	30°℞♊	
inferior conj	9956 Jun 14 02:42	29°♊30'05	3°01'36
minimum elong	9956 Jun 14 04:36	29°♊24'35	3°00'55
min. Earth dist.	9956 Jun 16 11:11	26°♊46'58	0.64275 AU
morning rise	9956 Jun 20 01:56	23°♊13'19	
direct	9956 Jun 26 17:48	20°♊32'46	
desc. node	9956 Jun 27 00:36	20°♊33'02	
morning max el	9956 Jul 10 11:11	28°♊33'30	27°30'53
	9956 Jul 11 20:31	0°♋	
	9956 Aug 02 09:16	0°♌	
morning set	9956 Aug 14 14:44	22°♌12'02	
	9956 Aug 18 11:32	0°♍	
max. Earth dist.	9956 Aug 19 08:52	1°♍50'32	1.32991 AU
asc. node	9956 Aug 19 22:11	3°♍00'06	

superior conj	9956 Aug 22 16:44	8°♍52'28	0°27'21
minimum elong	9956 Aug 22 15:26	8°♍45'32	0°26'54
evening rise	9956 Aug 29 18:03	24°♍03'36	
	9956 Sep 01 14:09	0°♎	
evening max el	9956 Sep 20 15:43	29°♎47'43	22°37'37
	9956 Sep 20 20:47	0°♏	
desc. node	9956 Sep 22 22:51	1°♏51'17	
retrograde	9956 Oct 03 17:53	6°♏19'15	
evening set	9956 Oct 07 07:30	5°♏51'18	
min. Earth dist.	9956 Oct 14 23:19	2°♏25'37	0.55001 AU
inferior conj	9956 Oct 16 02:08	1°♏47'29	-5°32'42
minimum elong	9956 Oct 15 21:05	1°♏54'41	5°31'59
	9956 Oct 19 08:36	30°℞♎	
morning rise	9956 Oct 24 12:27	27°♎59'38	
direct	9956 Oct 27 17:07	27°♎36'20	
	9956 Nov 04 08:41	0°♏	
morning max el	9956 Nov 08 04:52	3°♏00'52	21°06'40
asc. node	9956 Nov 15 22:25	12°♏32'45	
	9956 Nov 25 15:01	0°♐	
morning set	9956 Nov 27 22:42	4°♐45'41	
superior conj	9956 Dec 05 06:28	20°♐04'07	1°33'36
minimum elong	9956 Dec 05 08:12	20°♐13'06	1°33'53
max. Earth dist.	9956 Dec 09 23:05	29°♐33'09	1.35454 AU
	9956 Dec 10 04:32	0°♑	
evening rise	9956 Dec 14 00:17	7°♑20'34	
desc. node	9956 Dec 19 21:17	17°♑56'27	
	9956 Dec 27 04:36	0°♒	
evening max el	9957 Jan 18 09:46	29°♒00'20	26°26'51
	9957 Jan 19 11:01	0°♓	
retrograde	9957 Jan 31 07:56	6°♓17'47	
evening set	9957 Feb 06 15:56	3°♓45'13	
	9957 Feb 10 08:52	30°℞♒	
min. Earth dist.	9957 Feb 10 18:59	29°♒30'12	0.66528 AU
asc. node	9957 Feb 11 21:27	28°♒10'29	
inferior conj	9957 Feb 12 13:33	27°♒21'38	0°13'13
minimum elong	9957 Feb 12 13:11	27°♒22'43	0°13'20
transit middle	9957 Feb 12 13:11	27°♒22'43	0°13'20
transit begin	9957 Feb 12 11:35	27°♒27'37	
transit end	9957 Feb 12 14:48	27°♒17'50	
morning rise	9957 Feb 18 11:22	21°♒38'19	
direct	9957 Feb 21 11:54	20°♒47'00	
morning max el	9957 Feb 28 01:01	24°♒17'48	18°28'30
	9957 Mar 04 20:18	0°♓	
desc. node	9957 Mar 17 21:27	19°♓47'43	
morning set	9957 Mar 20 10:04	23°♓47'45	
	9957 Mar 24 08:11	0°♈	
superior conj	9957 Apr 05 08:22	18°♈51'04	-1°51'26
minimum elong	9957 Apr 04 23:17	18°♈15'33	1°50'49
max. Earth dist.	9957 Apr 05 13:59	19°♈13'03	1.45610 AU
	9957 Apr 12 11:19	0°♉	
evening rise	9957 Apr 21 02:57	13°♉37'31	
greatest brilliancy	9957 Apr 30 10:25	28°♉18'33	-0.8m
	9957 May 01 12:35	0°♊	
asc. node	9957 May 10 19:44	13°♊14'48	
evening max el	9957 May 13 06:18	15°♊58'09	18°54'01
retrograde	9957 May 19 23:58	19°♊41'58	
evening set	9957 May 23 08:46	18°♊36'33	
inferior conj	9957 May 28 21:50	12°♊53'52	3°17'09
minimum elong	9957 May 28 22:31	12°♊51'42	3°16'44
min. Earth dist.	9957 May 30 15:15	10°♊43'39	0.66005 AU
morning rise	9957 Jun 03 11:38	6°♊33'43	
direct	9957 Jun 09 20:54	3°♊48'47	
desc. node	9957 Jun 13 21:39	4°♊43'47	
morning max el	9957 Jun 22 21:53	11°♊34'24	26°35'26
	9957 Jul 07 14:21	0°♋	
	9957 Jul 25 23:29	0°♌	
morning set	9957 Jul 28 19:33	5°♌16'04	
max. Earth dist.	9957 Aug 01 21:32	13°♌09'57	1.34452 AU
superior conj	9957 Aug 06 15:43	22°♌48'39	-0°01'24
minimum elong	9957 Aug 06 15:48	22°♌49'07	0°01'40
behind sun begin	9957 Aug 06 10:00	22°♌19'06	
behind sun end	9957 Aug 06 21:37	23°♌19'11	
asc. node	9957 Aug 06 19:05	23°♌06'08	
	9957 Aug 10 02:15	0°♍	
evening rise	9957 Aug 14 03:36	8°♍31'45	
	9957 Aug 25 13:02	0°♎	
evening max el	9957 Sep 02 10:32	10°♎12'04	21°04'24
desc. node	9957 Sep 09 20:05	15°♎14'56	
retrograde	9957 Sep 14 06:01	16°♎03'28	
evening set	9957 Sep 16 14:29	15°♎50'28	
inferior conj	9957 Sep 25 18:29	11°♎54'41	-4°29'24
minimum elong	9957 Sep 25 08:42	12°♎08'29	4°26'48
min. Earth dist.	9957 Sep 26 07:30	11°♎36'16	0.54632 AU
morning rise	9957 Oct 04 03:17	8°♎00'52	
direct	9957 Oct 08 01:20	7°♎27'49	
morning max el	9957 Oct 20 22:26	13°♎37'42	22°47'07
	9957 Nov 02 07:01	0°♏	
asc. node	9957 Nov 02 19:20	0°♏52'38	
morning set	9957 Nov 12 09:46	19°♏34'00	
	9957 Nov 17 06:30	0°♐	
superior conj	9957 Nov 19 09:47	4°♐35'13	1°39'41
minimum elong	9957 Nov 19 10:18	4°♐37'55	1°40'02
max. Earth dist.	9957 Nov 22 15:58	11°♐27'32	1.33790 AU
evening rise	9957 Nov 27 07:47	20°♐53'00	
	9957 Dec 02 03:06	0°♑	
desc. node	9957 Dec 06 18:20	8°♑11'48	
	9957 Dec 21 02:27	0°♒	
evening max el	9957 Dec 31 23:04	12°♒35'16	27°11'38
retrograde	9958 Jan 14 09:37	19°♒57'39	
evening set	9958 Jan 21 03:24	17°♒23'26	
min. Earth dist.	9958 Jan 25 01:14	13°♒41'41	0.65084 AU
inferior conj	9958 Jan 27 07:23	11°♒11'34	-0°49'15
minimum elong	9958 Jan 27 08:51	11°♒07'30	0°48'18
asc. node	9958 Jan 29 18:37	8°♒34'31	
morning rise	9958 Feb 02 15:48	5°♒40'43	
direct	9958 Feb 05 07:19	5°♒03'36	
morning max el	9958 Feb 11 16:59	8°♒25'32	17°59'16
	9958 Feb 26 13:02	0°♓	
morning set	9958 Mar 01 12:46	4°♓55'57	
desc. node	9958 Mar 04 18:16	10°♓14'53	
superior conj	9958 Mar 15 18:54	28°♓02'25	-1°15'27
minimum elong	9958 Mar 15 10:40	27°♓29'42	1°14'25
	9958 Mar 17 00:37	0°♈	
max. Earth dist.	9958 Mar 19 09:38	3°♈44'38	1.45386 AU
evening rise	9958 Mar 31 21:33	23°♈09'09	
	9958 Apr 05 08:32	0°♉	
greatest brilliancy	9958 Apr 14 20:29	14°♉20'55	-0.7m
evening max el	9958 Apr 26 12:31	29°♉38'46	19°43'34
	9958 Apr 26 21:02	0°♊	
asc. node	9958 Apr 27 16:52	0°♊46'42	
retrograde	9958 May 03 21:47	3°♊51'50	
evening set	9958 May 07 15:13	2°♊30'54	
	9958 May 10 06:47	30°℞♉	
inferior conj	9958 May 12 23:54	26°♉33'54	3°18'08
minimum elong	9958 May 12 23:26	26°♉35'30	3°17'46
min. Earth dist.	9958 May 14 02:30	25°♉05'12	0.67312 AU
morning rise	9958 May 18 07:18	20°♉14'34	
direct	9958 May 24 06:06	17°♉36'00	
desc. node	9958 May 31 18:39	20°♉46'07	

morning max el	9958 Jun 05	07:44	24°♉50'18	25°18'46
	9958 Jun 09	23:32	0°♊	
	9958 Jul 01	01:27	0°♋	
morning set	9958 Jul 11	08:55	17°♋34'35	
max. Earth dist.	9958 Jul 14	23:59	24°♋14'03	1.36364 AU
	9958 Jul 18	00:49	0°♌	
superior conj	9958 Jul 21	05:29	6°♌15'14	-0°33'11
minimum elong	9958 Jul 21	07:34	6°♌25'30	0°33'08
asc. node	9958 Jul 24	16:00	13°♌09'34	
evening rise	9958 Jul 29	09:07	22°♌45'19	
	9958 Aug 02	00:09	0°♍	
evening max el	9958 Aug 15	18:33	21°♍17'05	19°48'30
retrograde	9958 Aug 25	21:25	26°♍18'00	
evening set	9958 Aug 27	18:19	26°♍08'29	
desc. node	9958 Aug 27	17:19	26°♍08'54	
inferior conj	9958 Sep 05	16:18	22°♍06'56	-2°44'18
minimum elong	9958 Sep 05	08:56	22°♍18'15	2°41'42
min. Earth dist.	9958 Sep 07	17:55	20°♍50'48	0.55218 AU
morning rise	9958 Sep 13	21:46	17°♍47'42	
direct	9958 Sep 18	15:04	16°♍58'42	
morning max el	9958 Oct 02	10:07	23°♍48'36	24°34'03
	9958 Oct 08	01:01	0°♎	
asc. node	9958 Oct 20	16:15	19°♎48'31	
	9958 Oct 25	19:51	0°♏	
morning set	9958 Oct 27	21:34	4°♏21'48	
superior conj	9958 Nov 03	18:01	19°♏18'13	1°39'16
minimum elong	9958 Nov 03	17:22	19°♏14'40	1°39'33
max. Earth dist.	9958 Nov 05	17:01	23°♏33'59	1.32563 AU
	9958 Nov 08	17:22	0°♐	
evening rise	9958 Nov 11	01:57	4°♐52'58	
desc. node	9958 Nov 23	15:25	28°♐06'31	
	9958 Nov 24	19:05	0°♑	
evening max el	9958 Dec 14	10:53	25°♑46'45	27°30'17
	9958 Dec 19	14:48	0°♒	
retrograde	9958 Dec 28	04:24	3°♒06'05	
evening set	9959 Jan 04	04:27	0°♒37'39	
	9959 Jan 05	00:46	30°℞♑	
min. Earth dist.	9959 Jan 07	22:26	27°♑26'22	0.63322 AU
inferior conj	9959 Jan 10	15:30	24°♑44'10	-1°58'56
minimum elong	9959 Jan 10	19:21	24°♑34'34	1°57'00
asc. node	9959 Jan 16	15:44	19°♑51'19	
morning rise	9959 Jan 17	12:19	19°♑28'56	
direct	9959 Jan 19	20:59	19°♑02'09	
morning max el	9959 Jan 26	10:30	22°♑25'01	17°47'23
	9959 Feb 01	08:36	0°♒	
morning set	9959 Feb 11	17:38	17°♒20'01	
	9959 Feb 19	02:58	0°♓	
desc. node	9959 Feb 19	15:04	0°♓51'04	
superior conj	9959 Feb 24	01:02	8°♓12'08	-0°32'28
minimum elong	9959 Feb 23	21:37	7°♓58'03	0°31'46
max. Earth dist.	9959 Mar 02	04:09	18°♓07'56	1.44446 AU
	9959 Mar 09	17:34	0°♈	
evening rise	9959 Mar 11	08:56	2°♈31'44	
	9959 Mar 29	21:44	0°♉	
evening max el	9959 Apr 09	13:11	13°♉20'53	20°47'12
asc. node	9959 Apr 14	14:02	17°♉19'18	
retrograde	9959 Apr 17	20:24	18°♉11'54	
evening set	9959 Apr 21	23:24	16°♉35'17	
inferior conj	9959 Apr 27	06:20	10°♉25'38	3°07'03
minimum elong	9959 Apr 27	04:56	10°♉30'31	3°06'36
min. Earth dist.	9959 Apr 27	19:02	9°♉41'50	0.68165 AU
morning rise	9959 May 02	10:14	4°♉09'26	
direct	9959 May 07	20:16	1°♉45'35	
morning max el	9959 May 18	17:05	8°♉14'54	23°50'53
desc. node	9959 May 18	15:35	8°♉11'07	
	9959 Jun 04	17:55	0°♊	
morning set	9959 Jun 23	01:40	28°♊53'55	
	9959 Jun 23	17:05	0°♋	
max. Earth dist.	9959 Jun 26	21:03	5°♋31'10	1.38582 AU
superior conj	9959 Jul 04	06:26	19°♋02'41	-1°06'08
minimum elong	9959 Jul 04	10:46	19°♋23'14	1°05'50
	9959 Jul 09	22:55	0°♌	
asc. node	9959 Jul 11	12:56	3°♌06'07	
evening rise	9959 Jul 13	07:52	6°♌36'29	
	9959 Jul 26	21:27	0°♍	
evening max el	9959 Jul 29	15:16	3°♍06'56	18°53'27
retrograde	9959 Aug 07	04:05	7°♍21'57	
evening set	9959 Aug 09	02:19	7°♍09'47	
desc. node	9959 Aug 14	14:32	4°♍42'07	
inferior conj	9959 Aug 17	07:25	2°♍51'29	-0°50'10
minimum elong	9959 Aug 17	05:18	2°♍55'15	0°49'34
min. Earth dist.	9959 Aug 20	08:21	0°♍42'26	0.56648 AU
	9959 Aug 21	09:52	30°℞♌	
morning rise	9959 Aug 25	05:01	27°♌55'20	
direct	9959 Aug 30	17:29	26°♌42'37	
	9959 Sep 09	00:52	0°♍	
morning max el	9959 Sep 13	23:36	4°♍04'20	26°10'43
	9959 Oct 02	15:59	0°♎	
asc. node	9959 Oct 07	13:07	9°♎10'30	
morning set	9959 Oct 12	08:26	19°♎03'58	
	9959 Oct 17	08:35	0°♏	
superior conj	9959 Oct 19	04:58	4°♏06'12	1°32'57
minimum elong	9959 Oct 19	03:24	3°♏57'33	1°33'02
max. Earth dist.	9959 Oct 20	00:03	5°♏51'58	1.31792 AU
evening rise	9959 Oct 26	03:49	19°♏12'10	
	9959 Oct 31	12:28	0°♐	
desc. node	9959 Nov 10	12:33	17°♐32'06	
	9959 Nov 19	06:22	0°♑	
evening max el	9959 Nov 26	18:37	8°♑21'19	27°17'18
retrograde	9959 Dec 10	15:27	15°♑34'25	
evening set	9959 Dec 17	15:51	13°♑20'39	
min. Earth dist.	9959 Dec 21	09:06	10°♑33'30	0.61317 AU
inferior conj	9959 Dec 24	10:44	7°♑51'24	-3°12'47
minimum elong	9959 Dec 24	17:05	7°♑37'22	3°10'06
morning rise	9959 Dec 31	20:47	2°♑55'10	
direct	9960 Jan 03	01:15	2°♑35'11	
asc. node	9960 Jan 03	12:50	2°♑36'12	
morning max el	9960 Jan 10	02:27	6°♑08'14	17°53'41
	9960 Jan 25	09:27	0°♒	
morning set	9960 Jan 25	18:11	0°♒39'42	
superior conj	9960 Feb 05	08:26	19°♒34'23	0°08'40
minimum elong	9960 Feb 05	09:13	19°♒37'46	0°08'50
behind sun begin	9960 Feb 05	02:13	19°♒07'28	
behind sun end	9960 Feb 05	16:13	20°♒08'01	
desc. node	9960 Feb 06	11:54	21°♒32'41	
	9960 Feb 11	12:21	0°♓	
max. Earth dist.	9960 Feb 12	18:56	2°♓05'57	1.42891 AU
evening rise	9960 Feb 19	04:21	12°♓21'53	
	9960 Mar 01	18:34	0°♈	
evening max el	9960 Mar 22	08:31	27°♈04'14	22°01'24
	9960 Mar 25	14:39	0°♉	
asc. node	9960 Mar 31	11:13	2°♉37'23	
retrograde	9960 Mar 31	18:05	2°♉37'48	
evening set	9960 Apr 05	07:37	0°♉45'50	
	9960 Apr 06	03:55	30°℞♈	
inferior conj	9960 Apr 10	14:59	24°♈25'57	2°45'33
minimum elong	9960 Apr 10	12:59	24°♈32'57	2°44'58
min. Earth dist.	9960 Apr 10	14:48	24°♈26'36	0.68560 AU

morning rise	9960 Apr 15 18:11	18°♈14'18	
direct	9960 Apr 20 14:32	16°♈10'09	
morning max el	9960 Apr 30 04:26	21°♈48'03	22°21'31
desc. node	9960 May 04 12:26	26°♈36'23	
	9960 May 07 06:05	0°♉	
	9960 May 28 00:42	0°♊	
morning set	9960 Jun 02 17:03	9°♊03'14	
max. Earth dist.	9960 Jun 07 19:27	17°♊29'47	1.40854 AU
	9960 Jun 15 00:30	0°♋	
superior conj	9960 Jun 15 14:18	1°♋01'34	-1°37'08
minimum elong	9960 Jun 15 20:23	1°♋28'51	1°36'50
evening rise	9960 Jun 25 20:33	19°♋57'08	
asc. node	9960 Jun 27 09:54	22°♋51'56	
	9960 Jul 01 07:05	0°♌	
evening max el	9960 Jul 11 21:28	15°♌36'19	18°19'17
retrograde	9960 Jul 19 05:54	19°♌18'13	
evening set	9960 Jul 21 10:44	18°♌59'05	
inferior conj	9960 Jul 28 20:19	14°♌20'35	0°47'08
minimum elong	9960 Jul 28 21:53	14°♌17'18	0°46'14
desc. node	9960 Jul 31 11:42	12°♌08'15	
min. Earth dist.	9960 Aug 01 05:08	11°♌33'12	0.58658 AU
morning rise	9960 Aug 05 05:36	8°♌49'04	
direct	9960 Aug 11 10:14	7°♌06'37	
morning max el	9960 Aug 25 19:28	14°♌51'38	27°20'41
	9960 Sep 07 00:43	0°♍	
asc. node	9960 Sep 23 09:58	28°♍51'19	
	9960 Sep 23 23:21	0°♎	
morning set	9960 Sep 25 16:40	3°♎35'30	
superior conj	9960 Oct 02 16:44	18°♎53'05	1°21'06
minimum elong	9960 Oct 02 14:37	18°♎41'19	1°20'56
max. Earth dist.	9960 Oct 02 09:35	18°♎13'18	1.31496 AU
	9960 Oct 07 17:26	0°♏	
evening rise	9960 Oct 09 10:56	3°♏43'37	
	9960 Oct 23 08:07	0°♐	
desc. node	9960 Oct 27 09:42	6°♐16'25	
evening max el	9960 Nov 07 19:29	20°♐07'02	26°30'10
retrograde	9960 Nov 21 17:43	27°♐13'44	
evening set	9960 Nov 28 09:20	25°♐24'44	
min. Earth dist.	9960 Dec 02 09:05	22°♐49'33	0.59200 AU
inferior conj	9960 Dec 05 13:27	20°♐22'56	-4°24'15
minimum elong	9960 Dec 05 21:16	20°♐07'53	4°21'43
morning rise	9960 Dec 13 11:49	15°♐48'37	
direct	9960 Dec 15 15:47	15°♐32'06	
asc. node	9960 Dec 20 09:53	16°♐56'32	
morning max el	9960 Dec 23 13:11	19°♐24'44	18°19'31
	9960 Dec 31 08:14	0°♑	
morning set	9961 Jan 08 08:35	14°♑36'58	
	9961 Jan 16 12:23	0°♒	
superior conj	9961 Jan 17 14:45	2°♒00'59	0°43'03
minimum elong	9961 Jan 17 17:36	2°♒13'56	0°42'59
desc. node	9961 Jan 23 08:46	12°♒15'38	
max. Earth dist.	9961 Jan 25 04:25	15°♒23'32	1.40904 AU
evening rise	9961 Jan 29 18:10	23°♒02'37	
	9961 Feb 03 01:51	0°♓	
	9961 Feb 23 18:12	0°♈	
evening max el	9961 Mar 04 23:54	10°♈49'20	23°21'17
retrograde	9961 Mar 15 13:15	17°♈03'45	
asc. node	9961 Mar 18 08:26	16°♈25'56	
evening set	9961 Mar 20 14:16	14°♈57'30	
inferior conj	9961 Mar 25 23:53	8°♈30'39	2°14'32
minimum elong	9961 Mar 25 21:41	8°♈38'15	2°13'53
min. Earth dist.	9961 Mar 25 11:36	9°♈12'57	0.68516 AU
morning rise	9961 Mar 31 05:02	2°♈24'45	
direct	9961 Apr 04 11:51	0°♈42'24	
morning max el	9961 Apr 12 20:57	5°♈31'01	20°58'46
desc. node	9961 Apr 21 09:16	15°♈44'49	
	9961 May 01 09:51	0°♉	
morning set	9961 May 13 06:23	18°♉02'36	
	9961 May 20 18:29	0°♊	
max. Earth dist.	9961 May 20 23:29	0°♊20'17	1.42895 AU
superior conj	9961 May 28 00:33	12°♊01'56	-2°01'25
minimum elong	9961 May 28 06:08	12°♊25'38	2°01'27
	9961 Jun 07 07:48	0°♋	
evening rise	9961 Jun 08 18:52	2°♋36'32	
asc. node	9961 Jun 14 06:56	12°♋22'09	
evening max el	9961 Jun 25 09:15	28°♋36'09	18°05'08
	9961 Jun 26 23:15	0°♌	
retrograde	9961 Jul 02 00:37	2°♌00'07	
evening set	9961 Jul 04 13:17	1°♌30'33	
	9961 Jul 07 06:00	30°℞♋	
inferior conj	9961 Jul 11 05:30	26°♋32'10	1°58'21
minimum elong	9961 Jul 11 08:19	26°♋25'20	1°57'09
min. Earth dist.	9961 Jul 14 09:59	23°♋28'53	0.60915 AU
morning rise	9961 Jul 18 00:43	20°♋35'17	
desc. node	9961 Jul 18 08:49	20°♋22'17	
direct	9961 Jul 24 15:28	18°♋23'42	
morning max el	9961 Aug 07 22:11	26°♋22'42	27°54'13
	9961 Aug 11 07:36	0°♌	
	9961 Aug 31 14:39	0°♍	
morning set	9961 Sep 09 20:28	17°♍51'43	
asc. node	9961 Sep 10 06:50	18°♍45'29	
max. Earth dist.	9961 Sep 15 17:56	0°♎28'46	1.31686 AU
	9961 Sep 15 12:41	0°♎	
superior conj	9961 Sep 17 03:32	3°♎33'53	1°04'04
minimum elong	9961 Sep 17 01:19	3°♎21'36	1°03'40
evening rise	9961 Sep 23 21:15	18°♎21'57	
	9961 Sep 29 12:41	0°♏	
desc. node	9961 Oct 14 06:54	24°♏03'35	
	9961 Oct 19 11:01	0°♐	
evening max el	9961 Oct 20 12:21	1°♐02'14	25°12'23
retrograde	9961 Nov 03 09:23	8°♐01'13	
evening set	9961 Nov 09 04:10	6°♐45'10	
min. Earth dist.	9961 Nov 14 00:19	4°♐04'34	0.57202 AU
inferior conj	9961 Nov 16 20:41	2°♐10'23	-5°20'45
minimum elong	9961 Nov 17 02:47	2°♐00'09	5°19'29
	9961 Nov 20 06:57	30°℞♏	
morning rise	9961 Nov 25 03:43	27°♏58'22	
direct	9961 Nov 27 12:33	27°♏41'57	
	9961 Dec 04 03:19	0°♐	
morning max el	9961 Dec 06 14:55	2°♐03'54	19°06'41
asc. node	9961 Dec 07 06:53	2°♐43'36	
morning set	9961 Dec 23 08:28	28°♐59'27	
	9961 Dec 23 20:41	0°♑	
superior conj	9961 Dec 31 15:12	15°♑18'16	1°09'06
minimum elong	9961 Dec 31 18:20	15°♑33'18	1°09'06
max. Earth dist.	9962 Jan 07 10:29	27°♑58'53	1.38720 AU
	9962 Jan 08 13:35	0°♒	
desc. node	9962 Jan 10 05:42	2°♒56'38	
evening rise	9962 Jan 11 05:44	4°♒40'52	
	9962 Jan 27 03:51	0°♓	
evening max el	9962 Feb 15 13:33	24°♓37'56	24°40'32
	9962 Feb 22 08:17	0°♈	
retrograde	9962 Feb 27 04:39	1°♈25'08	
	9962 Mar 03 13:33	30°℞♓	
evening set	9962 Mar 04 17:49	29°♓06'20	
asc. node	9962 Mar 05 05:37	28°♓40'10	
min. Earth dist.	9962 Mar 09 07:12	23°♓56'37	0.68056 AU
inferior conj	9962 Mar 10 07:12	22°♓36'46	1°34'27

minimum elong	9962 Mar 10 05:16	22°♓43'14	1°33'52
morning rise	9962 Mar 15 16:53	16°♓38'05	
direct	9962 Mar 19 10:59	15°♓17'13	
morning max el	9962 Mar 26 20:57	19°♓25'40	19°48'12
	9962 Apr 04 10:58	0°♈	
desc. node	9962 Apr 08 06:05	5°♈24'55	
greatest brilliancy	9962 Apr 08 19:29	6°♈13'47	-0.6m
morning set	9962 Apr 22 05:04	26°♈26'45	
	9962 Apr 24 12:20	0°♉	
max. Earth dist.	9962 May 03 10:40	13°♉59'34	1.44472 AU
superior conj	9962 May 08 10:25	21°♉59'15	-2°12'41
minimum elong	9962 May 08 11:19	22°♉02'53	2°12'59
	9962 May 13 08:07	0°♊	
evening rise	9962 May 21 21:58	14°♊23'17	
	9962 May 31 05:20	0°♋	
asc. node	9962 Jun 01 04:00	1°♋30'17	
evening max el	9962 Jun 08 23:00	11°♋56'20	18°09'56
retrograde	9962 Jun 15 07:52	15°♋17'10	
evening set	9962 Jun 18 04:22	14°♋34'37	
inferior conj	9962 Jun 24 07:00	9°♋17'44	2°44'38
minimum elong	9962 Jun 24 09:28	9°♋10'59	2°43'43
min. Earth dist.	9962 Jun 26 23:48	6°♋21'48	0.63123 AU
morning rise	9962 Jun 30 12:56	3°♋06'02	
desc. node	9962 Jul 05 05:56	0°♋46'19	
direct	9962 Jul 07 06:28	0°♋32'56	
morning max el	9962 Jul 21 05:56	8°♋35'42	27°49'27
	9962 Aug 06 18:58	0°♌	
	9962 Aug 23 20:28	0°♍	
morning set	9962 Aug 24 17:35	1°♍45'33	
asc. node	9962 Aug 28 03:41	8°♍47'21	
max. Earth dist.	9962 Aug 29 21:17	12°♍27'14	1.32374 AU
superior conj	9962 Sep 01 11:27	18°♍01'55	0°42'05
minimum elong	9962 Sep 01 09:39	17°♍52'07	0°41'36
	9962 Sep 06 23:13	0°♎	
evening rise	9962 Sep 08 08:45	3°♎00'34	
	9962 Sep 22 20:42	0°♏	
desc. node	9962 Oct 01 04:08	10°♏30'50	
evening max el	9962 Oct 01 23:37	11°♏19'09	23°35'24
retrograde	9962 Oct 15 12:04	18°♏04'00	
evening set	9962 Oct 19 22:34	17°♏21'07	
min. Earth dist.	9962 Oct 26 09:45	14°♏16'46	0.55616 AU
inferior conj	9962 Oct 28 07:39	13°♏08'43	-5°43'07
minimum elong	9962 Oct 28 07:19	13°♏09'13	5°42'52
morning rise	9962 Nov 05 17:58	9°♏15'05	
direct	9962 Nov 08 14:11	8°♏55'08	
morning max el	9962 Nov 19 04:06	13°♏54'56	20°16'35
asc. node	9962 Nov 24 03:52	19°♏41'27	
	9962 Nov 30 14:54	0°♐	
morning set	9962 Dec 07 14:34	13°♐37'08	
superior conj	9962 Dec 15 05:00	29°♐12'17	1°26'53
minimum elong	9962 Dec 15 07:23	29°♐24'20	1°27'04
	9962 Dec 15 14:28	0°♑	
max. Earth dist.	9962 Dec 20 17:33	10°♑03'26	1.36580 AU
evening rise	9962 Dec 24 13:10	17°♑10'23	
desc. node	9962 Dec 28 02:42	23°♑31'20	
	9962 Dec 31 22:05	0°♒	
	9963 Jan 21 12:55	0°♓	
evening max el	9963 Jan 29 02:59	8°♓27'18	25°52'10
retrograde	9963 Feb 10 15:15	15°♓36'19	
evening set	9963 Feb 16 16:39	13°♓07'43	
asc. node	9963 Feb 20 02:47	9°♓35'31	
min. Earth dist.	9963 Feb 20 23:18	8°♓32'52	0.67195 AU
inferior conj	9963 Feb 22 11:01	6°♓40'33	0°45'28
minimum elong	9963 Feb 22 09:54	6°♓44'04	0°45'13

morning rise	9963 Feb 28 03:42	0°♓50'57	
	9963 Mar 02 01:51	30°℞♒	
direct	9963 Mar 03 10:18	29°♒49'36	
	9963 Mar 04 19:21	0°♓	
morning max el	9963 Mar 10 04:39	3°♓30'17	18°52'56
desc. node	9963 Mar 26 02:55	25°♓28'21	
	9963 Mar 29 01:07	0°♈	
morning set	9963 Apr 01 12:35	5°♈24'27	
max. Earth dist.	9963 Apr 16 03:47	28°♈14'39	1.45407 AU
	9963 Apr 17 06:38	0°♉	
superior conj	9963 Apr 17 23:30	1°♉06'14	-2°05'03
minimum elong	9963 Apr 17 17:06	0°♉41'07	2°04'55
evening rise	9963 May 03 01:58	25°♉11'24	
	9963 May 06 01:13	0°♊	
asc. node	9963 May 19 01:06	20°♊09'09	
evening max el	9963 May 23 11:37	25°♊29'00	18°32'53
retrograde	9963 May 29 23:30	29°♊00'38	
evening set	9963 Jun 02 03:47	28°♊03'40	
inferior conj	9963 Jun 07 20:46	22°♊29'45	3°10'11
minimum elong	9963 Jun 07 22:10	22°♊25'33	3°09'37
min. Earth dist.	9963 Jun 09 22:48	19°♊59'31	0.65066 AU
morning rise	9963 Jun 13 15:40	16°♊11'11	
direct	9963 Jun 20 05:22	13°♊27'34	
desc. node	9963 Jun 22 02:59	13°♊39'44	
morning max el	9963 Jul 03 16:18	21°♊22'42	27°10'28
	9963 Jul 11 03:53	0°♋	
	9963 Jul 30 23:09	0°♌	
morning set	9963 Aug 08 05:18	15°♌10'09	
max. Earth dist.	9963 Aug 12 16:13	24°♌02'02	1.33562 AU
asc. node	9963 Aug 15 00:35	28°♌52'59	
	9963 Aug 15 13:24	0°♍	
superior conj	9963 Aug 16 14:24	2°♍11'31	0°15'37
minimum elong	9963 Aug 16 13:37	2°♍07'22	0°15'14
behind sun begin	9963 Aug 16 11:51	1°♍58'02	
behind sun end	9963 Aug 16 15:23	2°♍16'42	
evening rise	9963 Aug 23 19:37	17°♍34'21	
	9963 Aug 29 22:52	0°♎	
evening max el	9963 Sep 13 12:56	21°♎29'35	21°56'12
desc. node	9963 Sep 18 01:21	25°♎10'09	
retrograde	9963 Sep 26 03:23	27°♎45'45	
evening set	9963 Sep 29 03:09	27°♎25'45	
min. Earth dist.	9963 Oct 07 17:03	23°♎41'25	0.54737 AU
inferior conj	9963 Oct 08 03:25	23°♎26'55	-5°12'31
minimum elong	9963 Oct 07 19:31	23°♎37'59	5°11'00
morning rise	9963 Oct 16 13:16	19°♎39'23	
direct	9963 Oct 20 01:21	19°♎12'25	
morning max el	9963 Nov 01 03:54	24°♎55'41	21°47'47
	9963 Nov 05 18:25	0°♏	
asc. node	9963 Nov 11 00:49	7°♏35'06	
morning set	9963 Nov 22 00:23	28°♏23'09	
	9963 Nov 22 18:49	0°♐	
superior conj	9963 Nov 29 04:16	13°♐32'17	1°37'01
minimum elong	9963 Nov 29 05:29	13°♐38'41	1°37'21
max. Earth dist.	9963 Dec 03 06:09	21°♐56'33	1.34697 AU
	9963 Dec 07 08:18	0°♑	
evening rise	9963 Dec 07 12:55	0°♑22'04	
desc. node	9963 Dec 14 23:44	13°♑55'08	
	9963 Dec 25 00:15	0°♒	
evening max el	9964 Jan 11 16:27	22°♒09'46	26°48'44
retrograde	9964 Jan 24 20:15	29°♒29'53	
evening set	9964 Jan 31 08:53	26°♒55'46	
min. Earth dist.	9964 Feb 04 09:36	22°♒55'21	0.65955 AU
inferior conj	9964 Feb 06 09:09	20°♒36'41	-0°12'15
minimum elong	9964 Feb 06 09:29	20°♒35'43	0°11'50

transit middle	9964 Feb 06	09:29	20°♒35'43	0°11'50
transit begin	9964 Feb 06	07:29	20°♒41'32	
transit end	9964 Feb 06	11:28	20°♒29'54	
asc. node	9964 Feb 06	23:57	19°♒53'39	
morning rise	9964 Feb 12	11:13	14°♒58'29	
direct	9964 Feb 15	07:47	14°♒13'33	
morning max el	9964 Feb 21	18:22	17°♒38'55	18°14'05
	9964 Mar 02	01:33	0°♓	
morning set	9964 Mar 11	22:18	15°♓42'20	
desc. node	9964 Mar 11	23:45	15°♓48'10	
	9964 Mar 20	20:54	0°♈	
superior conj	9964 Mar 27	05:26	10°♈00'53	-1°37'42
minimum elong	9964 Mar 26	19:52	9°♈23'25	1°36'48
max. Earth dist.	9964 Mar 28	23:38	12°♈46'09	1.45606 AU
	9964 Apr 09	00:39	0°♉	
evening rise	9964 Apr 12	06:55	5°♉05'09	
greatest brilliancy	9964 Apr 23	17:17	22°♉47'36	-0.7m
	9964 Apr 28	14:15	0°♊	
asc. node	9964 May 04	22:14	8°♊08'43	
evening max el	9964 May 05	20:36	9°♊07'28	19°13'05
retrograde	9964 May 12	19:58	13°♊02'30	
evening set	9964 May 16	08:23	11°♊50'23	
inferior conj	9964 May 21	19:12	6°♊01'07	3°19'10
minimum elong	9964 May 21	19:23	6°♊00'34	3°18'48
min. Earth dist.	9964 May 23	06:07	4°♊08'10	0.66619 AU
	9964 May 26	21:33	30°℞♉	
morning rise	9964 May 27	05:56	29°♉40'54	
direct	9964 Jun 02	10:58	26°♉57'51	
desc. node	9964 Jun 07	24:00	28°♉41'32	
	9964 Jun 09	23:46	0°♊	
morning max el	9964 Jun 15	02:56	4°♊31'44	26°04'50
	9964 Jul 04	14:08	0°♋	
morning set	9964 Jul 21	04:05	27°♋56'00	
	9964 Jul 22	06:42	0°♌	
max. Earth dist.	9964 Jul 25	00:39	5°♌13'55	1.35224 AU
superior conj	9964 Jul 30	09:49	15°♌55'35	-0°14'37
minimum elong	9964 Jul 30	10:41	16°♌00'00	0°14'44
behind sun begin	9964 Jul 30	08:14	15°♌47'32	
behind sun end	9964 Jul 30	13:08	16°♌12'30	
asc. node	9964 Jul 31	21:30	18°♌58'10	
	9964 Aug 06	05:08	0°♍	
evening rise	9964 Aug 07	03:44	1°♍56'59	
	9964 Aug 23	13:09	0°♎	
evening max el	9964 Aug 25	12:53	2°♎08'29	20°29'32
desc. node	9964 Sep 03	22:33	7°♎31'46	
retrograde	9964 Sep 05	15:42	7°♎39'24	
evening set	9964 Sep 07	17:03	7°♎28'53	
inferior conj	9964 Sep 16	20:16	3°♎31'54	-3°48'05
minimum elong	9964 Sep 16	10:47	3°♎45'39	3°45'06
min. Earth dist.	9964 Sep 18	01:47	2°♎49'03	0.54764 AU
	9964 Sep 23	16:19	30°℞♍	
morning rise	9964 Sep 25	04:04	29°♍29'31	
direct	9964 Sep 29	09:53	28°♍50'52	
	9964 Oct 04	23:21	0°♎	
morning max el	9964 Oct 12	18:08	5°♎18'27	23°32'54
asc. node	9964 Oct 27	21:44	26°♎11'32	
	9964 Oct 29	23:19	0°♏	
morning set	9964 Nov 05	11:58	13°♏12'04	
superior conj	9964 Nov 12	09:58	28°♏09'32	1°40'16
minimum elong	9964 Nov 12	09:58	28°♏09'30	1°40'36
	9964 Nov 13	06:29	0°♐	
max. Earth dist.	9964 Nov 15	02:37	3°♐55'32	1.33205 AU
evening rise	9964 Nov 20	01:19	14°♐07'05	
	9964 Nov 28	12:25	0°♑	
desc. node	9964 Nov 30	20:46	4°♑02'37	
	9964 Dec 18	22:48	0°♒	
evening max el	9964 Dec 24	05:08	5°♒35'35	27°23'07
retrograde	9965 Jan 06	19:08	12°♒57'53	
evening set	9965 Jan 13	16:16	10°♒24'43	
min. Earth dist.	9965 Jan 17	12:04	6°♒56'47	0.64367 AU
inferior conj	9965 Jan 19	23:11	4°♒19'56	-1°18'02
minimum elong	9965 Jan 20	01:36	4°♒13'29	1°16'40
asc. node	9965 Jan 23	21:05	0°♒33'56	
	9965 Jan 24	15:13	30°℞♑	
morning rise	9965 Jan 26	12:43	28°♑55'40	
direct	9965 Jan 29	01:01	28°♑23'28	
	9965 Feb 02	10:21	0°♒	
morning max el	9965 Feb 04	11:26	1°♒44'33	17°52'10
morning set	9965 Feb 21	12:49	27°♒24'51	
	9965 Feb 23	01:43	0°♓	
desc. node	9965 Feb 26	20:35	6°♓19'42	
superior conj	9965 Mar 06	22:59	19°♓33'55	-0°57'30
minimum elong	9965 Mar 06	16:37	19°♓08'20	0°56'32
max. Earth dist.	9965 Mar 11	18:58	27°♓15'41	1.45064 AU
	9965 Mar 13	12:43	0°♈	
evening rise	9965 Mar 22	20:36	14°♈27'58	
	9965 Apr 02	02:25	0°♉	
greatest brilliancy	9965 Apr 06	20:05	6°♉59'33	-0.6m
evening max el	9965 Apr 19	00:25	22°♉48'23	20°08'58
asc. node	9965 Apr 21	19:22	25°♉17'05	
retrograde	9965 Apr 26	18:31	27°♉17'12	
evening set	9965 Apr 30	15:48	25°♉49'40	
inferior conj	9965 May 05	23:26	19°♉46'50	3°14'47
minimum elong	9965 May 05	22:32	19°♉49'55	3°14'24
min. Earth dist.	9965 May 06	19:59	18°♉37'02	0.67730 AU
morning rise	9965 May 11	04:59	13°♉28'20	
direct	9965 May 16	22:25	10°♉55'15	
desc. node	9965 May 25	20:58	15°♉21'59	
morning max el	9965 May 28	12:37	17°♉52'31	24°42'06
	9965 Jun 07	16:24	0°♊	
	9965 Jun 27	15:07	0°♋	
morning set	9965 Jul 03	09:23	9°♋51'21	
max. Earth dist.	9965 Jul 06	23:54	16°♋19'03	1.37283 AU
superior conj	9965 Jul 13	18:36	29°♋06'25	-0°47'11
minimum elong	9965 Jul 13	21:38	29°♋21'10	0°47'00
	9965 Jul 14	05:36	0°♌	
asc. node	9965 Jul 18	18:25	8°♌58'58	
evening rise	9965 Jul 22	06:45	16°♌01'51	
	9965 Jul 29	13:40	0°♍	
evening max el	9965 Aug 08	02:35	13°♍32'48	19°22'26
retrograde	9965 Aug 17	12:40	18°♍13'07	
evening set	9965 Aug 19	08:48	18°♍03'12	
desc. node	9965 Aug 21	19:45	17°♍21'21	
inferior conj	9965 Aug 28	00:26	13°♍55'39	-1°55'03
minimum elong	9965 Aug 27	19:18	14°♍04'02	1°53'13
min. Earth dist.	9965 Aug 30	14:01	12°♍15'34	0.55732 AU
morning rise	9965 Sep 05	03:08	9°♍20'51	
direct	9965 Sep 10	04:35	8°♍22'39	
morning max el	9965 Sep 24	05:55	15°♍28'10	25°17'32
	9965 Oct 05	21:36	0°♎	
asc. node	9965 Oct 14	18:38	15°♎19'21	
morning set	9965 Oct 20	23:33	27°♎57'51	
	9965 Oct 21	22:17	0°♏	
superior conj	9965 Oct 27	19:36	12°♏55'30	1°37'17
minimum elong	9965 Oct 27	18:32	12°♏49'36	1°37'30
max. Earth dist.	9965 Oct 29	06:19	16°♏06'07	1.32170 AU
evening rise	9965 Nov 03	23:04	28°♏15'58	
	9965 Nov 04	19:20	0°♐	

desc. node	9965 Nov 17 17:51	23°♐45'52	
	9965 Nov 21 17:25	0°♑	
evening max el	9965 Dec 06 15:20	18°♑32'08	27°28'55
retrograde	9965 Dec 20 11:00	25°♑49'59	
evening set	9965 Dec 27 11:57	23°♑26'29	
min. Earth dist.	9965 Dec 31 04:58	20°♑26'29	0.62486 AU
inferior conj	9966 Jan 03 02:11	17°♑42'22	-2°30'04
minimum elong	9966 Jan 03 07:07	17°♑30'37	2°27'45
morning rise	9966 Jan 10 04:38	12°♑34'56	
asc. node	9966 Jan 10 18:11	12°♑24'51	
direct	9966 Jan 12 10:59	12°♑11'37	
morning max el	9966 Jan 19 04:42	15°♑38'01	17°47'47
	9966 Jan 29 06:15	0°♒	
morning set	9966 Feb 04 02:47	10°♒14'13	
desc. node	9966 Feb 13 17:23	26°♒58'16	
superior conj	9966 Feb 15 15:42	0°♓13'52	-0°14'26
minimum elong	9966 Feb 15 14:18	0°♓07'57	0°13'59
behind sun begin	9966 Feb 15 09:51	29°♒49'17	
behind sun end	9966 Feb 15 18:44	0°♓26'36	
	9966 Feb 15 12:24	0°♓	
max. Earth dist.	9966 Feb 22 11:24	11°♓27'04	1.43845 AU
evening rise	9966 Mar 02 09:31	23°♓57'20	
	9966 Mar 06 08:04	0°♈	
	9966 Mar 27 07:29	0°♉	
evening max el	9966 Apr 01 22:41	6°♉30'43	21°17'48
asc. node	9966 Apr 08 16:31	11°♉19'46	
retrograde	9966 Apr 10 16:56	11°♉39'55	
evening set	9966 Apr 15 00:12	9°♉56'56	
inferior conj	9966 Apr 20 07:05	3°♉42'42	2°59'09
minimum elong	9966 Apr 20 05:22	3°♉48'38	2°58'39
min. Earth dist.	9966 Apr 20 14:16	3°♉17'41	0.68383 AU
	9966 Apr 23 01:37	30°℞♈	
morning rise	9966 Apr 25 10:19	27°♈28'04	
direct	9966 Apr 30 14:36	25°♈11'54	
	9966 May 09 13:18	0°♉	
morning max el	9966 May 10 22:19	1°♉20'07	23°12'30
desc. node	9966 May 12 17:53	3°♉14'50	
	9966 Jun 01 14:48	0°♊	
morning set	9966 Jun 14 15:57	20°♊42'47	
max. Earth dist.	9966 Jun 18 20:17	27°♊49'26	1.39554 AU
	9966 Jun 20 02:17	0°♋	
superior conj	9966 Jun 26 12:56	11°♋35'17	-1°19'45
minimum elong	9966 Jun 26 18:09	11°♋59'26	1°19'24
asc. node	9966 Jul 05 15:22	28°♋51'45	
evening rise	9966 Jul 06 01:43	29°♋41'34	
	9966 Jul 06 05:33	0°♌	
evening max el	9966 Jul 22 03:59	25°♌41'48	18°36'27
retrograde	9966 Jul 30 03:12	29°♌40'27	
evening set	9966 Aug 01 04:01	29°♌25'46	
desc. node	9966 Aug 08 16:56	25°♌14'17	
inferior conj	9966 Aug 09 00:48	24°♌59'21	-0°06'01
minimum elong	9966 Aug 09 00:34	24°♌59'49	0°06'11
transit middle	9966 Aug 09 00:34	24°♌59'49	0°06'11
transit begin	9966 Aug 08 21:13	25°♌06'11	
transit end	9966 Aug 09 03:55	24°♌53'26	
min. Earth dist.	9966 Aug 12 07:06	22°♌31'28	0.57455 AU
morning rise	9966 Aug 16 17:37	19°♌47'28	
direct	9966 Aug 22 13:49	18°♌22'09	
morning max el	9966 Sep 05 21:41	25°♌54'55	26°44'20
	9966 Sep 09 18:00	0°♍	
	9966 Sep 29 04:23	0°♎	
asc. node	9966 Oct 01 15:30	4°♎50'21	
morning set	9966 Oct 05 09:30	12°♎36'07	
superior conj	9966 Oct 12 07:09	27°♎44'01	1°28'35
minimum elong	9966 Oct 12 05:18	27°♎33'46	1°28'34
max. Earth dist.	9966 Oct 12 14:47	28°♎26'24	1.31612 AU
	9966 Oct 13 07:37	0°♏	
evening rise	9966 Oct 19 03:30	12°♏41'35	
	9966 Oct 27 22:03	0°♐	
desc. node	9966 Nov 04 14:58	12°♐55'18	
	9966 Nov 18 00:58	0°♑	
evening max el	9966 Nov 18 20:39	0°♑47'26	27°01'24
retrograde	9966 Dec 02 18:32	7°♑57'28	
evening set	9966 Dec 09 16:15	5°♑53'28	
min. Earth dist.	9966 Dec 13 11:14	3°♑12'50	0.60418 AU
inferior conj	9966 Dec 16 14:49	0°♑35'30	-3°44'02
minimum elong	9966 Dec 16 22:01	0°♑20'28	3°41'16
	9966 Dec 17 07:54	30°℞♐	
morning rise	9966 Dec 24 06:20	25°♐47'59	
direct	9966 Dec 26 09:59	25°♐29'53	
asc. node	9966 Dec 28 15:16	25°♐49'57	
morning max el	9967 Jan 02 18:49	29°♐10'28	18°02'06
	9967 Jan 03 14:06	0°♑	
morning set	9967 Jan 18 09:49	23°♑51'23	
	9967 Jan 21 17:24	0°♒	
superior conj	9967 Jan 28 09:15	12°♒04'00	0°24'14
minimum elong	9967 Jan 28 11:10	12°♒12'29	0°24'16
desc. node	9967 Jan 31 14:14	17°♒40'27	
max. Earth dist.	9967 Feb 04 23:54	25°♒08'29	1.42088 AU
	9967 Feb 07 22:41	0°♓	
evening rise	9967 Feb 10 11:53	4°♓06'55	
	9967 Feb 27 15:56	0°♈	
evening max el	9967 Mar 15 16:14	20°♈14'50	22°35'12
retrograde	9967 Mar 25 13:34	26°♈05'51	
asc. node	9967 Mar 26 13:43	26°♈00'53	
evening set	9967 Mar 30 07:54	24°♈07'47	
inferior conj	9967 Apr 04 16:02	17°♈44'46	2°33'32
minimum elong	9967 Apr 04 13:54	17°♈52'13	2°32'55
min. Earth dist.	9967 Apr 04 10:42	18°♈03'21	0.68592 AU
morning rise	9967 Apr 09 19:45	11°♈35'28	
direct	9967 Apr 14 10:24	9°♈40'16	
morning max el	9967 Apr 23 11:17	14°♈56'03	21°45'08
desc. node	9967 Apr 29 14:44	21°♈59'46	
	9967 May 05 14:39	0°♉	
morning set	9967 May 25 19:45	0°♊20'10	
	9967 May 25 14:42	0°♊	
max. Earth dist.	9967 May 31 20:55	10°♊10'31	1.41766 AU
superior conj	9967 Jun 08 12:10	23°♊10'37	-1°48'35
minimum elong	9967 Jun 08 18:27	23°♊38'06	1°48'24
	9967 Jun 12 08:39	0°♋	
evening rise	9967 Jun 19 08:51	12°♋45'55	
asc. node	9967 Jun 22 12:21	18°♋31'30	
	9967 Jun 29 03:41	0°♌	
evening max el	9967 Jul 05 13:06	8°♌25'38	18°10'54
retrograde	9967 Jul 12 12:42	11°♌57'47	
evening set	9967 Jul 14 20:59	11°♌34'26	
inferior conj	9967 Jul 21 22:44	6°♌47'07	1°20'33
minimum elong	9967 Jul 22 01:06	6°♌41'51	1°19'25
min. Earth dist.	9967 Jul 25 06:51	3°♌50'23	0.59613 AU
desc. node	9967 Jul 26 14:07	2°♌47'03	
morning rise	9967 Jul 29 02:09	1°♌03'48	
	9967 Jul 31 05:23	30°℞♋	
direct	9967 Aug 04 12:04	29°♋08'37	
	9967 Aug 08 22:24	0°♌	
morning max el	9967 Aug 18 20:27	6°♌59'39	27°39'37
	9967 Sep 05 04:27	0°♍	
asc. node	9967 Sep 18 12:22	24°♍37'24	
morning set	9967 Sep 19 16:06	27°♍01'37	
	9967 Sep 21 01:50	0°♎	

max. Earth dist.	9967 Sep 26	00:26	10°♎47'13	1.31527 AU
superior conj	9967 Sep 26	18:45	12°♎28'50	1°14'30
minimum elong	9967 Sep 26	16:31	12°♎16'30	1°14'14
evening rise	9967 Oct 03	12:15	27°♎16'51	
	9967 Oct 04	18:57	0°♏	
	9967 Oct 21	14:14	0°♐	
desc. node	9967 Oct 22	12:09	1°♐17'28	
evening max el	9967 Oct 31	18:21	12°♐11'53	26°00'17
retrograde	9967 Nov 14	16:08	19°♐14'35	
evening set	9967 Nov 21	00:36	17°♐39'02	
min. Earth dist.	9967 Nov 25	07:06	15°♐03'56	0.58326 AU
inferior conj	9967 Nov 28	09:34	12°♐49'28	-4°51'03
minimum elong	9967 Nov 28	17:11	12°♐35'40	4°48'56
morning rise	9967 Dec 06	12:11	8°♐24'32	
direct	9967 Dec 08	17:39	8°♐08'21	
asc. node	9967 Dec 15	12:19	10°♐48'49	
morning max el	9967 Dec 17	02:07	12°♐12'04	18°36'52
	9967 Dec 28	23:53	0°♑	
morning set	9968 Jan 02	04:46	8°♑01'10	
superior conj	9968 Jan 10	23:57	24°♑54'07	0°55'09
minimum elong	9968 Jan 11	03:04	25°♑08'43	0°55'05
	9968 Jan 13	18:13	0°♒	
desc. node	9968 Jan 18	11:08	8°♒23'05	
max. Earth dist.	9968 Jan 18	08:11	8°♒10'13	1.39986 AU
evening rise	9968 Jan 22	11:00	15°♒12'28	
	9968 Jan 31	16:07	0°♓	
	9968 Feb 22	12:42	0°♈	
evening max el	9968 Feb 26	06:43	4°♈01'52	23°55'31
retrograde	9968 Mar 08	07:09	10°♈30'54	
asc. node	9968 Mar 12	10:55	9°♈09'24	
evening set	9968 Mar 13	13:26	8°♈18'52	
min. Earth dist.	9968 Mar 18	07:09	2°♈49'26	0.68371 AU
inferior conj	9968 Mar 19	00:29	1°♈50'31	1°58'38
minimum elong	9968 Mar 18	22:20	1°♈57'50	1°57'59
	9968 Mar 20	09:28	30°℞♓	
morning rise	9968 Mar 24	07:16	25°♓47'45	
direct	9968 Mar 28	08:36	24°♓14'42	
morning max el	9968 Apr 05	06:54	28°♓44'22	20°27'08
	9968 Apr 06	12:09	0°♈	
desc. node	9968 Apr 15	11:35	11°♈22'56	
	9968 Apr 28	04:06	0°♉	
morning set	9968 May 04	00:36	8°♉57'59	
max. Earth dist.	9968 May 13	04:40	23°♉25'25	1.43636 AU
	9968 May 17	05:51	0°♊	
superior conj	9968 May 19	12:08	3°♊43'53	-2°08'11
minimum elong	9968 May 19	16:18	4°♊01'10	2°08'22
evening rise	9968 May 31	23:38	25°♊04'27	
	9968 Jun 03	19:16	0°♋	
asc. node	9968 Jun 08	09:24	7°♋53'07	
evening max el	9968 Jun 18	02:06	21°♋34'49	18°04'50
retrograde	9968 Jun 24	13:29	24°♋55'56	
evening set	9968 Jun 27	05:29	24°♋21'03	
inferior conj	9968 Jul 03	15:24	19°♋14'16	2°20'48
minimum elong	9968 Jul 03	18:13	19°♋07'04	2°19'40
min. Earth dist.	9968 Jul 06	15:21	16°♋11'44	0.61875 AU
morning rise	9968 Jul 10	04:46	13°♋09'45	
desc. node	9968 Jul 12	11:14	11°♋49'41	
direct	9968 Jul 16	21:23	10°♋48'12	
morning max el	9968 Jul 31	01:48	18°♋49'46	27°56'48
	9968 Aug 09	12:10	0°♌	
	9968 Aug 28	01:14	0°♍	
morning set	9968 Sep 02	17:23	11°♍09'14	
asc. node	9968 Sep 04	09:14	14°♍35'21	
max. Earth dist.	9968 Sep 08	07:21	22°♍57'37	1.31923 AU
superior conj	9968 Sep 10	04:34	27°♍04'43	0°55'19
minimum elong	9968 Sep 10	02:27	26°♍53'06	0°54'53
	9968 Sep 11	12:26	0°♎	
evening rise	9968 Sep 16	23:19	11°♎55'59	
	9968 Sep 26	00:38	0°♏	
desc. node	9968 Oct 08	09:22	18°♏33'45	
evening max el	9968 Oct 12	08:01	22°♏47'16	24°32'22
retrograde	9968 Oct 26	02:21	29°♏41'48	
evening set	9968 Oct 31	08:50	28°♏40'07	
min. Earth dist.	9968 Nov 05	19:05	25°♏51'48	0.56460 AU
inferior conj	9968 Nov 08	07:58	24°♏15'42	-5°35'41
minimum elong	9968 Nov 08	11:53	24°♏09'30	5°35'02
morning rise	9968 Nov 16	17:08	20°♏12'52	
direct	9968 Nov 19	06:09	19°♏55'23	
morning max el	9968 Nov 28	22:53	24°♏31'58	19°33'44
asc. node	9968 Dec 01	09:20	27°♏08'05	
	9968 Dec 03	15:03	0°♐	
morning set	9968 Dec 16	07:39	22°♐31'19	
	9968 Dec 20	00:34	0°♑	
superior conj	9968 Dec 24	06:39	8°♑29'00	1°17'37
minimum elong	9968 Dec 24	09:33	8°♑43'14	1°17'42
max. Earth dist.	9968 Dec 30	14:06	20°♑30'44	1.37785 AU
evening rise	9969 Jan 03	07:22	27°♑13'22	
desc. node	9969 Jan 04	08:05	29°♑01'53	
	9969 Jan 04	21:27	0°♒	
	9969 Jan 24	03:34	0°♓	
evening max el	9969 Feb 07	19:56	17°♓50'35	25°12'19
retrograde	9969 Feb 19	20:41	24°♓48'55	
evening set	9969 Feb 25	15:11	22°♓25'12	
asc. node	9969 Feb 27	08:07	20°♓46'40	
min. Earth dist.	9969 Mar 02	01:27	17°♓30'33	0.67737 AU
inferior conj	9969 Mar 03	06:32	15°♓55'52	1°14'45
minimum elong	9969 Mar 03	04:52	16°♓01'17	1°14'17
morning rise	9969 Mar 08	18:55	10°♓01'03	
direct	9969 Mar 12	07:54	8°♓49'00	
morning max el	9969 Mar 19	10:23	12°♓44'09	19°22'46
greatest brilliancy	9969 Apr 01	05:16	29°♓32'32	-0.7m
	9969 Apr 01	12:39	0°♈	
desc. node	9969 Apr 02	08:25	1°♈13'39	
morning set	9969 Apr 12	23:59	17°♈27'42	
	9969 Apr 21	02:00	0°♉	
max. Earth dist.	9969 Apr 25	18:27	7°♉21'01	1.44950 AU
superior conj	9969 Apr 29	12:03	13°♉16'02	-2°11'59
minimum elong	9969 Apr 29	09:50	13°♉07'14	2°12'12
	9969 May 09	19:52	0°♊	
evening rise	9969 May 13	17:13	6°♊26'28	
asc. node	9969 May 26	06:28	26°♊49'49	
	9969 May 28	11:27	0°♋	
evening max el	9969 Jun 01	15:36	5°♋00'38	18°17'31
retrograde	9969 Jun 08	00:51	8°♋24'51	
evening set	9969 Jun 11	00:31	7°♋36'28	
inferior conj	9969 Jun 16	22:36	2°♋12'09	2°57'45
minimum elong	9969 Jun 17	00:39	2°♋06'16	2°56'59
	9969 Jun 18	20:48	30°℞♊	
min. Earth dist.	9969 Jun 19	09:20	29°♊25'03	0.63983 AU
morning rise	9969 Jun 22	23:28	25°♊56'24	
desc. node	9969 Jun 29	08:19	23°♊17'41	
direct	9969 Jun 29	15:56	23°♊17'21	
	9969 Jul 12	02:40	0°♋	
morning max el	9969 Jul 13	11:11	1°♋19'24	27°36'45
	9969 Aug 03	16:06	0°♌	
morning set	9969 Aug 17	10:58	24°♌52'31	
	9969 Aug 20	00:04	0°♍	
asc. node	9969 Aug 22	06:07	4°♍39'45	
max. Earth dist.	9969 Aug 22	07:33	4°♍47'15	1.32811 AU

superior conj	9969 Aug 25 10:41	11°♍26'13	0°31'23
minimum elong	9969 Aug 25 09:14	11°♍18'26	0°30'56
evening rise	9969 Sep 01 10:49	26°♍33'40	
	9969 Sep 03 01:52	0°♎	
	9969 Sep 21 00:18	0°♏	
evening max el	9969 Sep 23 18:55	2°♏57'22	22°52'30
desc. node	9969 Sep 25 06:35	4°♏19'42	
retrograde	9969 Oct 07 00:24	9°♏33'02	
evening set	9969 Oct 10 19:17	9°♏01'41	
min. Earth dist.	9969 Oct 18 03:26	5°♏41'55	0.55136 AU
inferior conj	9969 Oct 19 11:33	4°♏55'51	-5°37'21
minimum elong	9969 Oct 19 07:42	5°♏01'23	5°36'50
morning rise	9969 Oct 27 21:56	1°♏06'55	
direct	9969 Oct 31 00:15	0°♏44'37	
morning max el	9969 Nov 11 06:29	6°♏02'48	20°53'00
asc. node	9969 Nov 18 06:18	14°♏32'05	
	9969 Nov 27 02:07	0°♐	
morning set	9969 Nov 30 15:36	7°♐13'42	
superior conj	9969 Dec 08 00:57	22°♐36'05	1°32'02
minimum elong	9969 Dec 08 02:52	22°♐45'56	1°32'19
	9969 Dec 11 16:52	0°♑	
max. Earth dist.	9969 Dec 12 22:41	2°♑26'44	1.35737 AU
evening rise	9969 Dec 16 22:15	10°♑02'43	
desc. node	9969 Dec 22 05:05	19°♑32'52	
	9969 Dec 28 11:37	0°♒	
	9970 Jan 19 18:19	0°♓	
evening max el	9970 Jan 21 09:16	1°♓37'46	26°18'26
retrograde	9970 Feb 03 05:10	8°♓53'34	
evening set	9970 Feb 09 11:27	6°♓21'55	
min. Earth dist.	9970 Feb 13 15:26	2°♓01'42	0.66712 AU
asc. node	9970 Feb 14 05:17	1°♓19'40	
inferior conj	9970 Feb 15 08:12	29°♒57'07	0°22'02
minimum elong	9970 Feb 15 07:37	29°♒58'54	0°22'01
	9970 Feb 15 07:15	30°℞♒	
morning rise	9970 Feb 21 04:36	24°♒12'00	
direct	9970 Feb 24 06:37	23°♒18'13	
morning max el	9970 Mar 02 20:54	26°♒51'20	18°34'16
	9970 Mar 05 16:47	0°♓	
desc. node	9970 Mar 20 05:14	21°♓24'39	
morning set	9970 Mar 23 17:16	26°♓55'35	
	9970 Mar 25 16:05	0°♈	
superior conj	9970 Apr 08 19:49	22°♈11'40	-1°55'36
minimum elong	9970 Apr 08 11:13	21°♈38'02	1°55'07
max. Earth dist.	9970 Apr 08 12:25	21°♈42'42	1.45581 AU
	9970 Apr 13 19:24	0°♉	
evening rise	9970 Apr 24 10:53	16°♉49'00	
	9970 May 02 18:08	0°♊	
greatest brilliancy	9970 May 02 22:32	0°♊17'17	-0.8m
asc. node	9970 May 13 03:34	15°♊13'09	
evening max el	9970 May 16 02:53	18°♊36'06	18°48'03
retrograde	9970 May 22 18:47	22°♊16'18	
evening set	9970 May 26 02:24	21°♊13'06	
inferior conj	9970 May 31 16:23	15°♊32'45	3°15'48
minimum elong	9970 May 31 17:15	15°♊30'03	3°15'20
min. Earth dist.	9970 Jun 02 12:04	13°♊16'58	0.65775 AU
morning rise	9970 Jun 06 07:26	9°♊12'55	
direct	9970 Jun 12 18:01	6°♊27'53	
desc. node	9970 Jun 16 05:22	7°♊08'43	
morning max el	9970 Jun 25 21:43	14°♊16'28	26°45'15
	9970 Jul 08 16:28	0°♋	
	9970 Jul 27 09:34	0°♌	
morning set	9970 Jul 31 17:37	8°♌01'50	
max. Earth dist.	9970 Aug 04 21:42	16°♌09'32	1.34203 AU
superior conj	9970 Aug 09 10:44	25°♌25'52	0°03'13
minimum elong	9970 Aug 09 10:34	25°♌25'03	0°02'56
behind sun begin	9970 Aug 09 04:53	24°♌55'30	
behind sun end	9970 Aug 09 16:15	25°♌54'39	
asc. node	9970 Aug 09 02:59	24°♌45'35	
	9970 Aug 11 15:04	0°♍	
evening rise	9970 Aug 16 20:43	11°♍03'09	
	9970 Aug 26 16:11	0°♎	
evening max el	9970 Sep 05 12:07	13°♎17'15	21°17'23
desc. node	9970 Sep 12 03:48	18°♎04'11	
retrograde	9970 Sep 17 12:53	19°♎15'20	
evening set	9970 Sep 20 00:46	19°♎00'55	
inferior conj	9970 Sep 29 04:19	15°♎04'55	-4°42'21
minimum elong	9970 Sep 28 18:46	15°♎18'18	4°39'58
min. Earth dist.	9970 Sep 29 11:20	14°♎55'03	0.54630 AU
morning rise	9970 Oct 07 13:24	11°♎13'22	
direct	9970 Oct 11 08:53	10°♎42'00	
morning max el	9970 Oct 24 01:25	16°♎45'04	22°31'19
	9970 Nov 03 11:01	0°♏	
asc. node	9970 Nov 05 03:14	2°♏45'32	
morning set	9970 Nov 15 02:23	22°♏01'28	
	9970 Nov 18 20:00	0°♐	
superior conj	9970 Nov 22 03:16	7°♐04'20	1°39'11
minimum elong	9970 Nov 22 03:58	7°♐08'01	1°39'32
max. Earth dist.	9970 Nov 25 14:24	14°♐20'21	1.34016 AU
evening rise	9970 Nov 30 03:51	23°♐30'02	
	9970 Dec 03 13:44	0°♑	
desc. node	9970 Dec 09 02:07	9°♑50'37	
	9970 Dec 22 02:50	0°♒	
evening max el	9971 Jan 03 22:44	15°♒15'16	27°06'31
retrograde	9971 Jan 17 07:43	22°♒37'07	
evening set	9971 Jan 24 00:12	20°♒02'51	
min. Earth dist.	9971 Jan 27 22:48	16°♒16'15	0.65319 AU
inferior conj	9971 Jan 30 03:13	13°♒48'56	-0°39'14
minimum elong	9971 Jan 30 04:22	13°♒45'42	0°38'27
asc. node	9971 Feb 01 02:26	11°♒40'10	
morning rise	9971 Feb 05 09:54	8°♒16'00	
direct	9971 Feb 08 02:42	7°♒36'55	
morning max el	9971 Feb 14 12:19	10°♒59'24	18°02'33
	9971 Feb 27 20:28	0°♓	
morning set	9971 Mar 04 15:40	7°♓51'23	
desc. node	9971 Mar 07 02:03	11°♓50'15	
	9971 Mar 18 09:01	0°♈	
superior conj	9971 Mar 19 04:36	1°♈17'25	-1°21'36
minimum elong	9971 Mar 18 19:50	0°♈42'46	1°20'34
max. Earth dist.	9971 Mar 22 08:20	6°♈15'29	1.45467 AU
evening rise	9971 Apr 04 07:52	26°♈25'52	
	9971 Apr 06 15:24	0°♉	
greatest brilliancy	9971 Apr 17 16:32	16°♉49'01	-0.7m
	9971 Apr 27 07:53	0°♊	
evening max el	9971 Apr 29 09:53	2°♊16'44	19°35'09
asc. node	9971 Apr 30 00:41	2°♊53'05	
retrograde	9971 May 06 16:18	6°♊24'37	
evening set	9971 May 10 08:26	5°♊05'55	
	9971 May 15 02:42	30°℞♉	
inferior conj	9971 May 15 17:36	29°♉10'52	3°18'46
minimum elong	9971 May 15 17:17	29°♉11'55	3°18'25
min. Earth dist.	9971 May 16 22:18	27°♉35'49	0.67151 AU
morning rise	9971 May 21 01:46	22°♉51'20	
direct	9971 May 27 02:17	20°♉11'22	
desc. node	9971 Jun 03 02:20	22°♉56'18	
morning max el	9971 Jun 08 07:43	27°♉30'51	25°31'07
	9971 Jun 10 15:47	0°♊	
	9971 Jul 02 08:37	0°♋	
morning set	9971 Jul 14 09:31	20°♋27'29	
max. Earth dist.	9971 Jul 18 01:37	27°♋15'02	1.36062 AU

	9971 Jul	19	12:20	0°♌	
superior conj	9971 Jul	24	02:02	8°♌57'03	-0°28'14
minimum elong	9971 Jul	24	03:47	9°♌05'45	0°28'14
asc. node	9971 Jul	26	23:53	14°♌49'32	
evening rise	9971 Aug	01	02:57	25°♌19'05	
	9971 Aug	03	10:34	0°♍	
evening max el	9971 Aug	18	17:55	24°♍14'35	19°58'26
retrograde	9971 Aug	29	02:53	29°♍23'13	
desc. node	9971 Aug	30	00:59	29°♍20'56	
evening set	9971 Aug	31	00:33	29°♍13'36	
inferior conj	9971 Sep	09	00:17	25°♍13'35	-3°01'30
minimum elong	9971 Sep	08	16:14	25°♍25'45	2°58'44
min. Earth dist.	9971 Sep	10	21:02	24°♍06'03	0.55074 AU
morning rise	9971 Sep	17	06:30	20°♍59'18	
direct	9971 Sep	21	20:49	20°♍13'17	
morning max el	9971 Oct	05	13:23	26°♍57'24	24°18'26
	9971 Oct	08	12:26	0°♎	
asc. node	9971 Oct	23	00:09	21°♎36'28	
	9971 Oct	27	07:38	0°♏	
morning set	9971 Oct	30	14:09	6°♏49'36	
superior conj	9971 Nov	06	10:53	21°♏45'53	1°39'44
minimum elong	9971 Nov	06	10:24	21°♏43'14	1°40'01
max. Earth dist.	9971 Nov	08	14:25	26°♏25'11	1.32715 AU
	9971 Nov	10	06:37	0°♐	
evening rise	9971 Nov	13	20:36	7°♐26'13	
desc. node	9971 Nov	25	23:10	29°♐48'56	
	9971 Nov	26	01:50	0°♑	
evening max el	9971 Dec	17	10:51	28°♑30'59	27°29'25
	9971 Dec	19	01:55	0°♒	
retrograde	9971 Dec	31	03:27	5°♒50'59	
evening set	9972 Jan	07	02:59	3°♒21'02	
	9972 Jan	10	23:41	30°℞♑	
min. Earth dist.	9972 Jan	10	21:22	0°♒05'41	0.63603 AU
inferior conj	9972 Jan	13	12:57	27°♑24'33	-1°48'02
minimum elong	9972 Jan	13	16:25	27°♑15'45	1°46'13
asc. node	9972 Jan	18	23:34	22°♑45'56	
morning rise	9972 Jan	20	07:51	22°♑06'52	
direct	9972 Jan	22	17:24	21°♑38'46	
morning max el	9972 Jan	29	05:49	25°♑00'45	17°48'04
	9972 Feb	02	09:16	0°♒	
morning set	9972 Feb	14	17:00	20°♒05'18	
	9972 Feb	20	12:20	0°♓	
desc. node	9972 Feb	21	22:52	2°♓25'23	
superior conj	9972 Feb	27	07:11	11°♓16'51	-0°39'02
minimum elong	9972 Feb	27	03:00	10°♓59'43	0°38'15
max. Earth dist.	9972 Mar	04	03:20	20°♓41'41	1.44625 AU
	9972 Mar	10	01:24	0°♈	
evening rise	9972 Mar	13	19:19	5°♈47'14	
	9972 Mar	30	00:37	0°♉	
evening max el	9972 Apr	11	11:22	15°♉58'36	20°36'53
asc. node	9972 Apr	15	21:51	19°♉35'46	
retrograde	9972 Apr	19	14:59	20°♉43'41	
evening set	9972 Apr	23	16:30	19°♉09'19	
inferior conj	9972 Apr	28	23:32	13°♉01'18	3°09'23
minimum elong	9972 Apr	28	22:15	13°♉05'43	3°08'59
min. Earth dist.	9972 Apr	29	14:11	12°♉10'53	0.68067 AU
morning rise	9972 May	04	03:46	6°♉44'28	
direct	9972 May	09	15:43	4°♉18'10	
desc. node	9972 May	19	23:17	10°♉10'31	
morning max el	9972 May	20	17:11	10°♉54'57	24°04'17
	9972 Jun	04	21:39	0°♊	
	9972 Jun	24	02:26	0°♋	
morning set	9972 Jun	25	05:43	1°♋56'48	
max. Earth dist.	9972 Jun	28	23:13	8°♋28'52	1.38245 AU
superior conj	9972 Jul	06	05:09	21°♋51'01	-1°01'11
minimum elong	9972 Jul	06	09:10	22°♋10'07	1°00'54
	9972 Jul	10	10:20	0°♌	
asc. node	9972 Jul	12	20:49	4°♌47'28	
evening rise	9972 Jul	15	02:56	9°♌14'20	
	9972 Jul	26	16:59	0°♍	
evening max el	9972 Jul	31	12:53	5°♍57'55	19°00'13
retrograde	9972 Aug	09	06:59	10°♍19'15	
evening set	9972 Aug	11	04:25	10°♍07'50	
desc. node	9972 Aug	15	22:10	8°♍12'41	
inferior conj	9972 Aug	19	12:22	5°♍52'24	-1°06'47
minimum elong	9972 Aug	19	09:30	5°♍57'24	1°05'51
min. Earth dist.	9972 Aug	22	10:50	3°♍50'28	0.56388 AU
morning rise	9972 Aug	27	11:26	1°♍01'45	
	9972 Aug	31	04:18	30°℞♌	
direct	9972 Sep	01	21:02	29°♌53'06	
	9972 Sep	03	13:53	0°♍	
morning max el	9972 Sep	16	02:20	7°♍11'00	25°57'48
	9972 Oct	02	22:49	0°♎	
asc. node	9972 Oct	08	21:02	10°♎55'17	
morning set	9972 Oct	14	01:18	21°♎33'18	
	9972 Oct	17	22:26	0°♏	
superior conj	9972 Oct	20	21:35	6°♏33'55	1°34'17
minimum elong	9972 Oct	20	20:09	6°♏25'57	1°34'24
max. Earth dist.	9972 Oct	21	20:43	8°♏41'52	1.31871 AU
evening rise	9972 Oct	27	21:30	21°♏43'16	
	9972 Oct	31	23:28	0°♐	
desc. node	9972 Nov	11	20:16	19°♐19'45	
	9972 Nov	19	02:29	0°♑	
evening max el	9972 Nov	28	19:15	11°♑11'46	27°21'23
retrograde	9972 Dec	12	15:50	18°♑26'21	
evening set	9972 Dec	19	16:41	16°♑09'38	
min. Earth dist.	9972 Dec	23	09:38	13°♑19'35	0.61625 AU
inferior conj	9972 Dec	26	10:20	10°♑36'22	-3°01'34
minimum elong	9972 Dec	26	16:20	10°♑22'52	2°58'57
morning rise	9973 Jan	02	18:27	5°♑37'18	
direct	9973 Jan	04	23:17	5°♑16'34	
asc. node	9973 Jan	04	20:41	5°♑16'38	
morning max el	9973 Jan	11	22:17	8°♑47'31	17°51'33
	9973 Jan	25	19:06	0°♒	
morning set	9973 Jan	27	15:02	3°♒17'58	
superior conj	9973 Feb	07	10:52	22°♒28'41	0°02'48
minimum elong	9973 Feb	07	11:09	22°♒29'54	0°03'02
behind sun begin	9973 Feb	07	02:47	21°♒53'57	
behind sun end	9973 Feb	07	19:31	23°♒05'46	
desc. node	9973 Feb	07	19:45	23°♒06'43	
	9973 Feb	11	21:43	0°♓	
max. Earth dist.	9973 Feb	14	18:31	4°♓43'24	1.43156 AU
evening rise	9973 Feb	21	12:39	15°♓31'04	
	9973 Mar	03	00:27	0°♈	
evening max el	9973 Mar	25	07:22	29°♈41'14	21°49'52
	9973 Mar	25	14:52	0°♉	
asc. node	9973 Apr	02	19:02	5°♉05'57	
retrograde	9973 Apr	03	12:58	5°♉08'43	
evening set	9973 Apr	08	00:50	3°♉19'03	
	9973 Apr	11	03:02	30°℞♈	
inferior conj	9973 Apr	13	08:00	27°♈00'25	2°49'26
minimum elong	9973 Apr	13	06:04	27°♈07'11	2°48'53
min. Earth dist.	9973 Apr	13	09:41	26°♈54'31	0.68528 AU
morning rise	9973 Apr	18	11:07	20°♈47'53	
direct	9973 Apr	23	09:29	18°♈40'35	
morning max el	9973 May	03	04:03	24°♈26'34	22°34'32
desc. node	9973 May	06	20:12	28°♈27'47	
	9973 May	08	03:05	0°♉	
	9973 May	29	07:54	0°♊	

morning set	9973 Jun 06 01:08	12°♊17'18	
max. Earth dist.	9973 Jun 10 20:47	20°♊19'04	1.40519 AU
	9973 Jun 16 10:41	0°♋	
superior conj	9973 Jun 18 15:52	3°♋57'54	-1°32'45
minimum elong	9973 Jun 18 21:48	4°♋24'39	1°32'25
evening rise	9973 Jun 28 17:23	22°♋40'21	
asc. node	9973 Jun 29 17:47	24°♋35'21	
	9973 Jul 02 15:21	0°♌	
evening max el	9973 Jul 14 18:00	18°♌22'37	18°23'07
retrograde	9973 Jul 22 06:00	22°♌08'27	
evening set	9973 Jul 24 09:40	21°♌50'38	
inferior conj	9973 Jul 31 22:07	17°♌15'21	0°33'56
minimum elong	9973 Jul 31 23:17	17°♌12'57	0°33'12
desc. node	9973 Aug 02 19:22	15°♌42'39	
min. Earth dist.	9973 Aug 04 06:44	14°♌32'14	0.58333 AU
morning rise	9973 Aug 08 09:24	11°♌48'34	
direct	9973 Aug 14 12:01	10°♌10'28	
morning max el	9973 Aug 28 21:10	17°♌52'56	27°12'26
	9973 Sep 07 23:51	0°♍	
	9973 Sep 25 11:13	0°♎	
asc. node	9973 Sep 25 17:54	0°♎33'53	
morning set	9973 Sep 28 10:03	6°♎06'58	
superior conj	9973 Oct 05 09:22	21°♎21'40	1°23'16
minimum elong	9973 Oct 05 07:19	21°♎10'14	1°23'08
max. Earth dist.	9973 Oct 05 06:01	21°♎03'03	1.31506 AU
	9973 Oct 09 06:57	0°♏	
evening rise	9973 Oct 12 03:59	6°♏13'32	
	9973 Oct 24 13:23	0°♐	
desc. node	9973 Oct 29 17:25	8°♐11'15	
evening max el	9973 Nov 10 21:19	23°♐05'26	26°39'20
	9973 Nov 22 12:05	0°♑	
retrograde	9973 Nov 24 19:41	0°♑13'17	
	9973 Nov 27 02:42	30°℞♐	
evening set	9973 Dec 01 13:09	28°♐20'07	
min. Earth dist.	9973 Dec 05 11:16	25°♐44'01	0.59512 AU
inferior conj	9973 Dec 08 15:45	23°♐13'59	-4°14'02
minimum elong	9973 Dec 08 23:29	22°♐58'46	4°11'24
morning rise	9973 Dec 16 12:27	18°♐36'14	
direct	9973 Dec 18 16:05	18°♐19'28	
asc. node	9973 Dec 22 17:46	19°♐22'46	
morning max el	9973 Dec 26 10:04	22°♐08'49	18°14'20
	9974 Jan 01 12:12	0°♑	
morning set	9974 Jan 11 03:42	17°♑10'42	
	9974 Jan 17 23:28	0°♒	
superior conj	9974 Jan 20 14:05	4°♒46'36	0°38'20
minimum elong	9974 Jan 20 16:44	4°♒58'38	0°38'17
desc. node	9974 Jan 25 16:36	13°♒49'40	
max. Earth dist.	9974 Jan 28 04:36	18°♒06'54	1.41221 AU
evening rise	9974 Feb 01 23:25	26°♒03'51	
	9974 Feb 04 10:00	0°♓	
	9974 Feb 24 18:35	0°♈	
evening max el	9974 Mar 07 23:17	13°♈26'28	23°09'19
retrograde	9974 Mar 18 08:37	19°♈35'06	
asc. node	9974 Mar 20 16:14	19°♈09'02	
evening set	9974 Mar 23 07:50	17°♈31'01	
inferior conj	9974 Mar 28 17:01	11°♈05'01	2°19'52
minimum elong	9974 Mar 28 14:49	11°♈12'39	2°19'12
min. Earth dist.	9974 Mar 28 06:33	11°♈41'13	0.68549 AU
morning rise	9974 Apr 02 21:42	4°♈58'06	
direct	9974 Apr 07 06:32	3°♈12'22	
morning max el	9974 Apr 15 19:33	8°♈07'53	21°10'22
desc. node	9974 Apr 23 17:05	17°♈30'52	
	9974 May 02 14:53	0°♉	
morning set	9974 May 16 18:01	21°♉26'08	
	9974 May 22 03:00	0°♊	
max. Earth dist.	9974 May 23 23:46	3°♊01'54	1.42613 AU
superior conj	9974 May 31 05:39	15°♊08'04	-1°58'26
minimum elong	9974 May 31 11:33	15°♊33'16	1°58'23
	9974 Jun 08 17:22	0°♋	
evening rise	9974 Jun 11 18:11	5°♋26'54	
asc. node	9974 Jun 16 14:48	14°♋08'28	
	9974 Jun 26 23:24	0°♌	
evening max el	9974 Jun 28 05:18	1°♌19'17	18°06'04
retrograde	9974 Jul 04 22:25	4°♌44'47	
evening set	9974 Jul 07 09:58	4°♌16'53	
	9974 Jul 13 12:07	30°℞♋	
inferior conj	9974 Jul 14 04:33	29°♋21'27	1°49'12
minimum elong	9974 Jul 14 07:19	29°♋14'54	1°47'59
min. Earth dist.	9974 Jul 17 10:17	26°♋19'05	0.60577 AU
desc. node	9974 Jul 20 16:32	23°♋43'14	
morning rise	9974 Jul 21 01:54	23°♋27'48	
direct	9974 Jul 27 15:42	21°♋20'12	
morning max el	9974 Aug 10 22:53	29°♋17'23	27°51'37
	9974 Aug 11 15:48	0°♌	
	9974 Sep 01 22:44	0°♍	
morning set	9974 Sep 12 14:38	20°♍25'51	
asc. node	9974 Sep 12 14:46	20°♍26'30	
	9974 Sep 17 02:17	0°♎	
max. Earth dist.	9974 Sep 18 14:48	3°♎20'12	1.31630 AU
superior conj	9974 Sep 19 20:27	6°♎03'54	1°06'58
minimum elong	9974 Sep 19 18:13	5°♎51'31	1°06'38
evening rise	9974 Sep 26 13:58	20°♎51'25	
	9974 Sep 30 23:21	0°♏	
desc. node	9974 Oct 16 14:35	26°♏08'08	
	9974 Oct 19 17:33	0°♐	
evening max el	9974 Oct 23 15:29	4°♐08'05	25°25'32
retrograde	9974 Nov 06 12:53	11°♐07'55	
evening set	9974 Nov 12 11:34	9°♐46'50	
min. Earth dist.	9974 Nov 17 03:42	7°♐08'10	0.57484 AU
inferior conj	9974 Nov 20 01:59	5°♐08'23	-5°13'55
minimum elong	9974 Nov 20 08:39	4°♐56'59	5°12'25
morning rise	9974 Nov 28 08:02	0°♐52'56	
direct	9974 Nov 30 15:47	0°♐36'41	
morning max el	9974 Dec 09 13:17	4°♐53'47	18°58'14
asc. node	9974 Dec 09 14:47	4°♐57'24	
	9974 Dec 25 08:05	0°♑	
morning set	9974 Dec 26 02:24	1°♑30'03	
superior conj	9975 Jan 03 12:07	17°♑57'01	1°05'41
minimum elong	9975 Jan 03 15:17	18°♑12'07	1°05'40
	9975 Jan 10 00:11	0°♒	
max. Earth dist.	9975 Jan 10 11:08	0°♒48'57	1.39050 AU
desc. node	9975 Jan 12 13:31	4°♒31'06	
evening rise	9975 Jan 14 07:46	7°♒33'46	
	9975 Jan 28 09:11	0°♓	
evening max el	9975 Feb 18 13:09	27°♓15'06	24°29'06
	9975 Feb 21 13:29	0°♈	
retrograde	9975 Mar 02 00:34	3°♈57'45	
evening set	9975 Mar 07 11:56	1°♈40'42	
asc. node	9975 Mar 07 13:27	1°♈37'29	
	9975 Mar 09 05:10	30°℞♓	
min. Earth dist.	9975 Mar 12 02:26	26°♓25'52	0.68152 AU
inferior conj	9975 Mar 13 00:41	25°♓11'24	1°41'10
minimum elong	9975 Mar 12 22:41	25°♓18'08	1°40'32
morning rise	9975 Mar 18 09:32	19°♓11'35	
direct	9975 Mar 22 05:31	17°♓47'31	
morning max el	9975 Mar 29 18:22	22°♓00'58	19°57'48
	9975 Apr 05 11:26	0°♈	
desc. node	9975 Apr 10 13:56	7°♈07'03	

morning set	9975 Apr 25	17:34	29°♈51'47	
	9975 Apr 25	19:42	0°♉	
max. Earth dist.	9975 May 06	10:12	16°♉35'47	1.44277 AU
superior conj	9975 May 11	19:09	25°♉14'41	-2°12'05
minimum elong	9975 May 11	21:02	25°♉22'23	2°12'23
	9975 May 14	16:50	0°♊	
evening rise	9975 May 25	00:26	17°♊22'11	
	9975 Jun 01	10:48	0°♋	
asc. node	9975 Jun 03	11:50	3°♋20'21	
evening max el	9975 Jun 11	18:57	14°♋36'52	18°08'02
retrograde	9975 Jun 18	04:06	17°♋57'15	
evening set	9975 Jun 20	23:28	17°♋16'41	
inferior conj	9975 Jun 27	03:52	12°♋02'18	2°39'03
minimum elong	9975 Jun 27	06:27	11°♋55'20	2°38'03
min. Earth dist.	9975 Jun 29	22:36	9°♋04'10	0.62809 AU
morning rise	9975 Jul 03	11:40	5°♋52'18	
desc. node	9975 Jul 07	13:39	3°♋44'40	
direct	9975 Jul 10	05:12	3°♋21'56	
morning max el	9975 Jul 24	06:00	11°♋24'23	27°52'30
	9975 Aug 07	22:02	0°♌	
	9975 Aug 25	07:59	0°♍	
morning set	9975 Aug 27	12:54	4°♍23'23	
asc. node	9975 Aug 30	11:37	10°♍27'27	
max. Earth dist.	9975 Sep 01	19:12	15°♍22'06	1.32243 AU
superior conj	9975 Sep 04	04:55	20°♍34'10	0°45'43
minimum elong	9975 Sep 04	03:01	20°♍23'46	0°45'16
	9975 Sep 08	12:23	0°♎	
evening rise	9975 Sep 11	01:25	5°♎30'27	
	9975 Sep 23	21:59	0°♏	
desc. node	9975 Oct 03	11:48	12°♏49'13	
evening max el	9975 Oct 05	03:10	14°♏29'06	23°50'22
retrograde	9975 Oct 18	17:22	21°♏16'39	
evening set	9975 Oct 23	09:22	20°♏29'06	
min. Earth dist.	9975 Oct 29	13:35	17°♏29'30	0.55814 AU
inferior conj	9975 Oct 31	15:49	16°♏14'00	-5°42'51
minimum elong	9975 Oct 31	16:42	16°♏12'40	5°42'33
morning rise	9975 Nov 09	01:59	12°♏18'18	
direct	9975 Nov 11	20:15	11°♏59'03	
morning max el	9975 Nov 22	04:28	16°♏52'31	20°04'48
asc. node	9975 Nov 26	11:46	21°♏45'50	
	9975 Dec 01	21:27	0°♐	
morning set	9975 Dec 10	07:45	16°♐06'26	
	9975 Dec 17	02:58	0°♑	
superior conj	9975 Dec 18	00:11	1°♑46'44	1°24'40
minimum elong	9975 Dec 18	02:44	1°♑59'27	1°24'51
max. Earth dist.	9975 Dec 23	17:55	12°♑58'04	1.36885 AU
evening rise	9975 Dec 27	12:27	19°♑56'28	
desc. node	9975 Dec 30	10:27	25°♑07'12	
	9976 Jan 02	06:48	0°♒	
	9976 Jan 22	10:39	0°♓	
evening max el	9976 Feb 01	02:32	11°♓04'55	25°42'14
retrograde	9976 Feb 13	11:53	18°♓11'21	
evening set	9976 Feb 19	11:34	15°♓43'52	
asc. node	9976 Feb 22	10:37	12°♓43'01	
min. Earth dist.	9976 Feb 23	19:07	11°♓03'59	0.67350 AU
inferior conj	9976 Feb 25	05:07	9°♓16'02	0°53'31
minimum elong	9976 Feb 25	03:50	9°♓20'06	0°53'11
morning rise	9976 Mar 01	20:37	3°♓25'06	
direct	9976 Mar 05	04:52	2°♓21'02	
morning max el	9976 Mar 12	01:01	6°♓04'54	19°00'11
greatest brilliancy	9976 Mar 25	16:19	24°♓25'51	-0.8m
desc. node	9976 Mar 27	10:45	27°♓07'37	
	9976 Mar 29	07:39	0°♈	
morning set	9976 Apr 03	22:21	8°♈40'57	
	9976 Apr 17	14:39	0°♉	
max. Earth dist.	9976 Apr 18	02:45	0°♉47'28	1.45316 AU
superior conj	9976 Apr 20	10:41	4°♉27'27	-2°07'32
minimum elong	9976 Apr 20	05:19	4°♉06'16	2°07'32
evening rise	9976 May 05	08:02	28°♉19'32	
	9976 May 06	08:42	0°♊	
asc. node	9976 May 20	08:55	22°♊04'18	
evening max el	9976 May 25	07:51	28°♊07'56	18°28'16
	9976 May 27	11:38	0°♋	
retrograde	9976 May 31	18:45	1°♋37'15	
evening set	9976 Jun 03	21:50	0°♋42'30	
	9976 Jun 04	23:21	30°℞♊	
inferior conj	9976 Jun 09	16:01	25°♊10'56	3°07'26
minimum elong	9976 Jun 09	17:35	25°♊06'14	3°06'49
min. Earth dist.	9976 Jun 11	20:18	22°♊35'57	0.64800 AU
morning rise	9976 Jun 15	12:23	18°♊52'50	
direct	9976 Jun 22	02:53	16°♊10'10	
desc. node	9976 Jun 23	10:44	16°♊16'05	
morning max el	9976 Jul 05	16:14	24°♊07'26	27°18'11
	9976 Jul 10	22:50	0°♋	
	9976 Jul 31	07:31	0°♌	
morning set	9976 Aug 10	02:12	17°♌52'58	
max. Earth dist.	9976 Aug 14	15:39	27°♌01'08	1.33351 AU
asc. node	9976 Aug 16	08:28	0°♍32'43	
	9976 Aug 16	02:12	0°♍	
superior conj	9976 Aug 18	08:43	4°♍46'51	0°19'54
minimum elong	9976 Aug 18	07:44	4°♍41'38	0°19'29
evening rise	9976 Aug 25	12:28	20°♍05'21	
	9976 Aug 30	08:16	0°♎	
evening max el	9976 Sep 15	15:27	24°♎37'59	22°10'28
desc. node	9976 Sep 19	09:00	27°♎47'10	
	9976 Sep 23	09:00	0°♏	
retrograde	9976 Sep 28	10:18	1°♏00'02	
evening set	9976 Oct 01	14:45	0°♏37'31	
	9976 Oct 03	17:10	30°℞♎	
min. Earth dist.	9976 Oct 09	20:55	27°♎00'03	0.54808 AU
inferior conj	9976 Oct 10	13:14	26°♎37'08	-5°20'58
minimum elong	9976 Oct 10	06:13	26°♎46'59	5°19'45
morning rise	9976 Oct 18	23:16	22°♎50'02	
direct	9976 Oct 22	08:43	22°♎24'27	
morning max el	9976 Nov 03	06:13	28°♎01'03	21°33'06
	9976 Nov 05	05:20	0°♏	
asc. node	9976 Nov 12	08:43	9°♏32'17	
	9976 Nov 23	07:10	0°♐	
morning set	9976 Nov 23	17:07	0°♐51'53	
superior conj	9976 Nov 30	22:15	16°♐03'52	1°35'55
minimum elong	9976 Nov 30	23:40	16°♐11'13	1°36'14
max. Earth dist.	9976 Dec 05	05:21	24°♐51'29	1.34951 AU
	9976 Dec 07	19:56	0°♑	
evening rise	9976 Dec 09	09:58	3°♑02'38	
desc. node	9976 Dec 16	07:25	15°♑33'01	
	9976 Dec 25	04:56	0°♒	
evening max el	9977 Jan 13	15:53	24°♒48'44	26°41'31
	9977 Jan 20	03:48	0°♓	
retrograde	9977 Jan 26	17:48	2°♓08'13	
	9977 Feb 01	15:35	30°℞♒	
evening set	9977 Feb 02	04:53	29°♒34'25	
min. Earth dist.	9977 Feb 06	06:22	25°♒29'01	0.66163 AU
inferior conj	9977 Feb 08	04:13	23°♒13'39	-0°02'57
minimum elong	9977 Feb 08	04:17	23°♒13'26	0°02'39
transit middle	9977 Feb 08	04:17	23°♒13'26	0°02'39
transit begin	9977 Feb 08	01:24	23°♒22'00	
transit end	9977 Feb 08	07:10	23°♒04'54	
asc. node	9977 Feb 08	07:47	23°♒03'04	

morning rise	9977 Feb 14 04:45	17°♒33'41	
direct	9977 Feb 17 02:40	16°♒46'36	
morning max el	9977 Feb 23 14:00	20°♒13'38	18°18'48
	9977 Mar 03 05:06	0°♓	
desc. node	9977 Mar 14 07:32	17°♓25'17	
morning set	9977 Mar 15 03:35	18°♓45'30	
	9977 Mar 22 04:56	0°♈	
superior conj	9977 Mar 30 16:28	13°♈20'50	-1°42'55
minimum elong	9977 Mar 30 06:55	12°♈43'29	1°42'05
max. Earth dist.	9977 Mar 31 22:08	15°♈16'56	1.45624 AU
	9977 Apr 10 08:14	0°♉	
evening rise	9977 Apr 15 16:06	8°♉20'19	
greatest brilliancy	9977 Apr 26 09:10	25°♉01'47	-0.8m
	9977 Apr 29 16:15	0°♊	
asc. node	9977 May 07 06:02	10°♊10'47	
evening max el	9977 May 08 17:27	11°♊45'54	19°06'02
retrograde	9977 May 15 14:42	15°♊36'52	
evening set	9977 May 19 01:48	14°♊27'09	
inferior conj	9977 May 24 13:21	8°♊40'06	3°18'41
minimum elong	9977 May 24 13:42	8°♊38'58	3°18'18
min. Earth dist.	9977 May 26 02:31	6°♊40'56	0.66413 AU
morning rise	9977 May 30 01:06	2°♊19'45	
	9977 Jun 02 20:36	30°℞♉	
direct	9977 Jun 05 07:39	29°♉35'52	
	9977 Jun 07 21:55	0°♊	
desc. node	9977 Jun 10 07:45	1°♊00'33	
morning max el	9977 Jun 18 03:01	7°♊14'24	26°15'56
	9977 Jul 05 18:45	0°♋	
	9977 Jul 23 17:21	0°♌	
morning set	9977 Jul 24 03:12	0°♌45'52	
max. Earth dist.	9977 Jul 28 01:33	8°♌15'45	1.34943 AU
superior conj	9977 Aug 02 05:27	18°♌35'37	-0°09'49
minimum elong	9977 Aug 02 06:02	18°♌38'34	0°10'01
behind sun begin	9977 Aug 02 01:19	18°♌14'28	
behind sun end	9977 Aug 02 10:44	19°♌02'43	
asc. node	9977 Aug 03 05:21	20°♌38'26	
	9977 Aug 07 17:14	0°♍	
evening rise	9977 Aug 09 21:09	4°♍30'22	
	9977 Aug 24 03:11	0°♎	
evening max el	9977 Aug 28 13:31	5°♎11'40	20°41'21
desc. node	9977 Sep 06 06:14	10°♎31'45	
retrograde	9977 Sep 08 22:26	10°♎50'03	
evening set	9977 Sep 11 01:49	10°♎38'53	
inferior conj	9977 Sep 20 05:38	6°♎42'36	-4°03'32
minimum elong	9977 Sep 19 19:54	6°♎56'34	4°00'38
min. Earth dist.	9977 Sep 21 05:30	6°♎08'20	0.54696 AU
morning rise	9977 Sep 28 13:48	2°♎43'35	
direct	9977 Oct 02 16:49	2°♎07'04	
morning max el	9977 Oct 15 21:32	8°♎28'41	23°16'48
asc. node	9977 Oct 30 05:38	28°♎03'10	
	9977 Oct 31 07:39	0°♏	
morning set	9977 Nov 08 04:33	15°♏40'47	
	9977 Nov 14 19:53	0°♐	
superior conj	9977 Nov 15 03:10	0°♐39'15	1°40'11
minimum elong	9977 Nov 15 03:21	0°♐40'12	1°40'31
max. Earth dist.	9977 Nov 18 00:29	6°♐48'22	1.33400 AU
evening rise	9977 Nov 22 20:43	16°♐43'29	
	9977 Nov 29 21:35	0°♑	
desc. node	9977 Dec 03 04:28	5°♑43'24	
	9977 Dec 19 16:23	0°♒	
evening max el	9977 Dec 27 04:45	8°♒17'37	27°19'40
retrograde	9978 Jan 09 17:43	15°♒40'20	
evening set	9978 Jan 16 13:44	13°♒06'37	
min. Earth dist.	9978 Jan 20 10:12	9°♒33'54	0.64623 AU
inferior conj	9978 Jan 22 19:37	6°♒59'05	-1°07'38
minimum elong	9978 Jan 22 21:41	6°♒53'30	1°06'24
asc. node	9978 Jan 26 04:56	3°♒35'57	
morning rise	9978 Jan 29 07:19	1°♒32'31	
direct	9978 Jan 31 20:40	0°♒58'43	
morning max el	9978 Feb 07 06:42	4°♒19'56	17°54'16
	9978 Feb 24 10:12	0°♓	
morning set	9978 Feb 24 14:00	0°♓15'53	
desc. node	9978 Mar 01 04:20	7°♓55'05	
superior conj	9978 Mar 10 07:12	22°♓45'16	-1°03'59
minimum elong	9978 Mar 10 00:07	22°♓16'56	1°02'58
max. Earth dist.	9978 Mar 14 17:23	29°♓46'32	1.45189 AU
	9978 Mar 14 20:49	0°♈	
evening rise	9978 Mar 26 07:07	17°♈45'03	
	9978 Apr 03 07:59	0°♉	
greatest brilliancy	9978 Apr 10 02:57	10°♉06'35	-0.6m
evening max el	9978 Apr 21 22:06	25°♉26'48	19°59'49
asc. node	9978 Apr 24 03:11	27°♉28'01	
retrograde	9978 Apr 29 13:02	29°♉50'00	
evening set	9978 May 03 08:56	28°♉24'50	
inferior conj	9978 May 08 16:53	22°♉24'02	3°16'10
minimum elong	9978 May 08 16:07	22°♉26'36	3°15'49
min. Earth dist.	9978 May 09 15:33	21°♉07'29	0.67592 AU
morning rise	9978 May 13 23:00	16°♉05'08	
direct	9978 May 19 18:21	13°♉29'56	
desc. node	9978 May 28 04:44	17°♉28'00	
morning max el	9978 May 31 12:41	20°♉33'35	24°55'06
	9978 Jun 08 15:17	0°♊	
	9978 Jun 28 23:09	0°♋	
morning set	9978 Jul 06 11:25	12°♋49'40	
max. Earth dist.	9978 Jul 10 01:42	19°♋19'32	1.36957 AU
	9978 Jul 15 17:03	0°♌	
superior conj	9978 Jul 16 16:03	1°♌52'13	-0°42'09
minimum elong	9978 Jul 16 18:44	2°♌05'22	0°42'02
asc. node	9978 Jul 21 02:15	10°♌40'16	
evening rise	9978 Jul 25 01:05	18°♌38'25	
	9978 Jul 30 20:50	0°♍	
evening max el	9978 Aug 11 01:16	16°♍29'14	19°31'07
retrograde	9978 Aug 20 17:08	21°♍16'32	
evening set	9978 Aug 22 13:17	21°♍06'52	
desc. node	9978 Aug 24 03:27	20°♍43'51	
inferior conj	9978 Aug 31 07:21	17°♍01'43	-2°12'36
minimum elong	9978 Aug 31 01:23	17°♍11'13	2°10'28
min. Earth dist.	9978 Sep 02 17:06	15°♍29'48	0.55537 AU
morning rise	9978 Sep 08 11:05	12°♍32'31	
direct	9978 Sep 13 09:44	11°♍37'37	
morning max el	9978 Sep 27 09:05	18°♍37'58	25°02'36
	9978 Oct 06 20:56	0°♎	
asc. node	9978 Oct 17 02:32	17°♎06'46	
	9978 Oct 23 11:08	0°♏	
morning set	9978 Oct 23 16:15	0°♏27'16	
superior conj	9978 Oct 30 12:23	15°♏24'21	1°38'07
minimum elong	9978 Oct 30 11:27	15°♏19'16	1°38'21
max. Earth dist.	9978 Nov 01 03:16	18°♏57'20	1.32298 AU
	9978 Nov 06 07:42	0°♐	
evening rise	9978 Nov 06 17:18	0°♐49'29	
desc. node	9978 Nov 20 01:33	25°♐30'53	
	9978 Nov 22 20:58	0°♑	
evening max el	9978 Dec 09 15:38	21°♑19'57	27°30'06
retrograde	9978 Dec 23 10:42	28°♑38'23	
evening set	9978 Dec 30 11:24	26°♑13'03	
min. Earth dist.	9979 Jan 03 04:42	23°♑09'11	0.62781 AU
inferior conj	9979 Jan 06 00:30	20°♑25'29	-2°18'55
minimum elong	9979 Jan 06 05:03	20°♑14'28	2°16'43

morning rise	9979 Jan 13 00:57	15°♑15'10	
asc. node	9979 Jan 13 02:04	15°♑14'13	
direct	9979 Jan 15 08:02	14°♑50'44	
morning max el	9979 Jan 22 00:09	18°♑15'49	17°47'15
	9979 Jan 30 12:34	0°♒	
morning set	9979 Feb 07 00:58	12°♒57'05	
desc. node	9979 Feb 16 01:10	28°♒32'58	
	9979 Feb 16 21:46	0°♓	
superior conj	9979 Feb 18 20:12	3°♓14'42	-0°20'47
minimum elong	9979 Feb 18 18:06	3°♓05'58	0°20'15
max. Earth dist.	9979 Feb 25 10:38	14°♓02'37	1.44066 AU
evening rise	9979 Mar 05 19:13	27°♓11'33	
	9979 Mar 07 15:03	0°♈	
	9979 Mar 28 05:46	0°♉	
evening max el	9979 Apr 04 21:16	9°♉09'25	21°06'55
asc. node	9979 Apr 11 00:22	13°♉42'00	
retrograde	9979 Apr 13 11:33	14°♉12'05	
evening set	9979 Apr 17 17:19	12°♉31'20	
inferior conj	9979 Apr 23 00:10	6°♉18'45	3°02'10
minimum elong	9979 Apr 22 22:33	6°♉24'19	3°01'42
min. Earth dist.	9979 Apr 23 09:17	5°♉47'07	0.68316 AU
morning rise	9979 Apr 28 03:35	0°♉03'33	
	9979 Apr 28 05:11	30°℞♈	
direct	9979 May 03 09:56	27°♈44'31	
	9979 May 09 07:28	0°♉	
morning max el	9979 May 13 22:11	4°♉00'10	23°25'55
desc. node	9979 May 15 01:39	5°♉11'27	
	9979 Jun 02 20:06	0°♊	
morning set	9979 Jun 17 21:41	23°♊51'18	
	9979 Jun 21 11:53	0°♋	
max. Earth dist.	9979 Jun 21 22:15	0°♋45'05	1.39217 AU
superior conj	9979 Jun 29 12:50	14°♋28'06	-1°14'57
minimum elong	9979 Jun 29 17:46	14°♋51'04	1°14'36
asc. node	9979 Jul 07 23:13	0°♌34'40	
	9979 Jul 07 16:04	0°♌	
evening rise	9979 Jul 08 21:30	2°♌22'32	
evening max el	9979 Jul 25 01:10	28°♌31'53	18°41'55
	9979 Jul 26 16:33	0°♍	
retrograde	9979 Aug 02 04:49	2°♍35'51	
evening set	9979 Aug 04 04:43	2°♍22'06	
	9979 Aug 09 07:44	30°℞♌	
desc. node	9979 Aug 11 00:39	28°♌49'29	
inferior conj	9979 Aug 12 04:26	27°♌58'32	-0°21'21
minimum elong	9979 Aug 12 03:34	28°♌00'08	0°21'15
min. Earth dist.	9979 Aug 15 09:09	25°♌36'56	0.57167 AU
morning rise	9979 Aug 19 23:00	22°♌52'07	
direct	9979 Aug 25 16:39	21°♌31'18	
morning max el	9979 Sep 08 23:57	29°♌00'09	26°33'12
	9979 Sep 10 00:06	0°♍	
	9979 Sep 30 13:48	0°♎	
asc. node	9979 Oct 03 23:25	6°♎34'35	
morning set	9979 Oct 08 02:35	15°♎06'55	
superior conj	9979 Oct 14 23:46	0°♏12'41	1°30'16
minimum elong	9979 Oct 14 22:02	0°♏02'59	1°30'16
	9979 Oct 14 21:30	0°♏	
max. Earth dist.	9979 Oct 15 11:21	1°♏17'01	1.31666 AU
evening rise	9979 Oct 21 20:55	15°♏13'01	
	9979 Oct 29 07:08	0°♐	
desc. node	9979 Nov 06 22:41	14°♐46'15	
	9979 Nov 18 07:32	0°♑	
evening max el	9979 Nov 21 21:55	3°♑42'23	27°07'42
retrograde	9979 Dec 05 19:24	10°♑53'17	
evening set	9979 Dec 12 18:16	8°♑45'46	
min. Earth dist.	9979 Dec 16 12:32	6°♑03'05	0.60732 AU
inferior conj	9979 Dec 19 15:32	3°♑23'51	-3°32'59
minimum elong	9979 Dec 19 22:28	3°♑09'05	3°30'15
	9979 Dec 24 02:01	30°℞♐	
morning rise	9979 Dec 27 05:11	28°♐33'10	
direct	9979 Dec 29 09:03	28°♐14'28	
asc. node	9979 Dec 30 23:11	28°♐24'57	
	9980 Jan 03 09:39	0°♑	
morning max el	9980 Jan 05 15:00	1°♑52'11	17°58'46
morning set	9980 Jan 21 05:54	26°♑28'39	
	9980 Jan 23 03:48	0°♒	
superior conj	9980 Jan 31 10:18	14°♒55'18	0°18'49
minimum elong	9980 Jan 31 11:52	15°♒02'08	0°18'54
desc. node	9980 Feb 02 22:01	19°♒14'57	
max. Earth dist.	9980 Feb 08 00:05	27°♒50'35	1.42378 AU
	9980 Feb 09 07:29	0°♓	
evening rise	9980 Feb 13 19:01	7°♓14'00	
	9980 Feb 28 19:58	0°♈	
evening max el	9980 Mar 17 15:25	22°♈53'09	22°23'18
retrograde	9980 Mar 27 08:34	28°♈38'00	
asc. node	9980 Mar 27 21:35	28°♈36'33	
evening set	9980 Apr 01 01:15	26°♈41'59	
inferior conj	9980 Apr 06 09:04	20°♈20'02	2°38'02
minimum elong	9980 Apr 06 06:58	20°♈27'21	2°37'25
min. Earth dist.	9980 Apr 06 05:31	20°♈32'26	0.68591 AU
morning rise	9980 Apr 11 12:33	14°♈09'58	
direct	9980 Apr 16 05:13	12°♈11'36	
morning max el	9980 Apr 25 10:32	17°♈34'53	21°57'42
desc. node	9980 Apr 30 22:33	23°♈49'30	
	9980 May 05 16:14	0°♉	
	9980 May 25 22:25	0°♊	
morning set	9980 May 28 05:31	3°♊39'34	
max. Earth dist.	9980 Jun 02 22:07	12°♊58'21	1.41453 AU
superior conj	9980 Jun 10 15:10	26°♊11'44	-1°44'41
minimum elong	9980 Jun 10 21:27	26°♊39'24	1°44'26
	9980 Jun 12 18:35	0°♋	
evening rise	9980 Jun 21 06:39	15°♋32'45	
asc. node	9980 Jun 23 20:13	20°♋16'42	
	9980 Jun 29 07:36	0°♌	
evening max el	9980 Jul 07 09:21	11°♌10'54	18°13'26
retrograde	9980 Jul 14 11:49	14°♌46'13	
evening set	9980 Jul 16 18:52	14°♌24'25	
inferior conj	9980 Jul 23 23:18	9°♌40'03	1°09'08
minimum elong	9980 Jul 24 01:26	9°♌35'25	1°08'03
min. Earth dist.	9980 Jul 27 07:49	6°♌46'11	0.59274 AU
desc. node	9980 Jul 27 21:50	6°♌17'47	
morning rise	9980 Jul 31 04:47	4°♌00'40	
direct	9980 Aug 06 12:58	2°♌09'58	
morning max el	9980 Aug 20 21:45	9°♌58'56	27°33'50
	9980 Sep 05 08:24	0°♍	
asc. node	9980 Sep 19 20:17	26°♍19'50	
morning set	9980 Sep 21 09:50	29°♍35'05	
	9980 Sep 21 14:35	0°♎	
superior conj	9980 Sep 28 11:30	14°♎58'44	1°16'58
minimum elong	9980 Sep 28 09:18	14°♎46'33	1°16'45
max. Earth dist.	9980 Sep 27 21:09	13°♎38'59	1.31505 AU
evening rise	9980 Oct 05 05:10	29°♎47'27	
	9980 Oct 05 07:31	0°♏	
	9980 Oct 21 14:09	0°♐	
desc. node	9980 Oct 23 19:51	3°♐16'55	
evening max el	9980 Nov 02 20:47	15°♐14'38	26°11'20
retrograde	9980 Nov 16 18:41	22°♐18'43	
evening set	9980 Nov 23 05:59	20°♐38'16	
min. Earth dist.	9980 Nov 27 09:46	18°♐03'35	0.58629 AU
inferior conj	9980 Nov 30 13:11	15°♐44'30	-4°41'53

minimum elong	9980 Nov 30 20:58	15°♐30'07	4°39'37
morning rise	9980 Dec 08 14:26	11°♐16'20	
direct	9980 Dec 10 19:16	11°♐00'06	
asc. node	9980 Dec 16 20:14	13°♐10'40	
morning max el	9980 Dec 18 23:38	14°♐59'39	18°30'21
	9980 Dec 29 08:21	0°♑	
morning set	9981 Jan 03 23:21	10°♑34'36	
superior conj	9981 Jan 12 22:13	27°♑37'52	0°50'58
minimum elong	9981 Jan 13 01:16	27°♑52'01	0°50'54
	9981 Jan 14 05:03	0°♒	
desc. node	9981 Jan 19 18:54	9°♒57'54	
max. Earth dist.	9981 Jan 20 08:51	10°♒58'22	1.40313 AU
evening rise	9981 Jan 24 14:54	18°♒11'04	
	9981 Jan 31 23:09	0°♓	
	9981 Feb 22 07:04	0°♈	
evening max el	9981 Feb 28 06:09	6°♈39'22	23°43'31
retrograde	9981 Mar 11 02:44	13°♈03'28	
asc. node	9981 Mar 14 18:46	11°♈59'26	
evening set	9981 Mar 16 07:12	10°♈53'20	
min. Earth dist.	9981 Mar 21 02:07	5°♈18'39	0.68434 AU
inferior conj	9981 Mar 21 17:43	4°♈25'21	2°04'34
minimum elong	9981 Mar 21 15:32	4°♈32'49	2°03'53
	9981 Mar 25 05:44	30°℞♓	
morning rise	9981 Mar 26 23:53	28°♓21'30	
direct	9981 Mar 31 03:06	26°♓45'17	
	9981 Apr 06 18:19	0°♈	
morning max el	9981 Apr 08 05:03	1°♈21'18	20°37'52
desc. node	9981 Apr 17 19:24	13°♈07'31	
	9981 Apr 29 10:19	0°♉	
morning set	9981 May 07 12:57	12°♉23'34	
max. Earth dist.	9981 May 16 04:30	26°♉04'29	1.43387 AU
	9981 May 18 14:31	0°♊	
superior conj	9981 May 22 18:42	6°♊53'55	-2°06'05
minimum elong	9981 May 22 23:28	7°♊13'52	2°06'13
evening rise	9981 Jun 04 00:08	27°♊58'24	
	9981 Jun 05 03:44	0°♋	
asc. node	9981 Jun 10 17:14	9°♋41'15	
evening max el	9981 Jun 20 21:56	24°♋16'31	18°04'36
retrograde	9981 Jun 27 10:34	27°♋38'29	
evening set	9981 Jun 30 01:22	27°♋05'32	
inferior conj	9981 Jul 06 13:24	22°♋01'40	2°13'15
minimum elong	9981 Jul 06 16:15	21°♋54'31	2°12'05
min. Earth dist.	9981 Jul 09 15:04	18°♋58'21	0.61536 AU
morning rise	9981 Jul 13 04:46	15°♋59'32	
desc. node	9981 Jul 14 18:59	15°♋01'16	
direct	9981 Jul 19 20:49	13°♋41'18	
morning max el	9981 Aug 03 02:15	21°♋42'24	27°56'45
	9981 Aug 10 08:07	0°♌	
	9981 Aug 29 10:57	0°♍	
morning set	9981 Sep 05 12:01	13°♍45'42	
asc. node	9981 Sep 06 17:07	16°♍16'23	
max. Earth dist.	9981 Sep 11 04:38	25°♍51'19	1.31826 AU
superior conj	9981 Sep 12 21:40	29°♍36'15	0°58'33
minimum elong	9981 Sep 12 19:30	29°♍24'19	0°58'09
	9981 Sep 13 01:59	0°♎	
evening rise	9981 Sep 19 15:58	14°♎26'10	
	9981 Sep 27 08:33	0°♏	
desc. node	9981 Oct 10 17:03	20°♏44'41	
evening max el	9981 Oct 15 11:26	25°♏56'19	24°46'43
	9981 Oct 20 12:56	0°♐	
retrograde	9981 Oct 29 06:56	2°♐52'44	
evening set	9981 Nov 03 17:57	1°♐45'58	
	9981 Nov 07 07:39	30°℞♏	
min. Earth dist.	9981 Nov 08 22:48	29°♏00'45	0.56710 AU
inferior conj	9981 Nov 11 14:39	27°♏18'00	-5°31'16
minimum elong	9981 Nov 11 19:28	27°♏10'14	5°30'23
morning rise	9981 Nov 19 23:13	23°♏12'06	
direct	9981 Nov 22 10:33	22°♏55'07	
morning max el	9981 Dec 01 22:12	27°♏26'24	19°23'46
asc. node	9981 Dec 03 17:14	29°♏18'34	
	9981 Dec 04 07:34	0°♐	
morning set	9981 Dec 19 01:13	25°♐01'55	
	9981 Dec 21 12:37	0°♑	
superior conj	9981 Dec 27 02:48	11°♑06'41	1°14'43
minimum elong	9981 Dec 27 05:47	11°♑21'17	1°14'46
max. Earth dist.	9982 Jan 02 14:36	23°♑23'13	1.38111 AU
evening rise	9982 Jan 06 08:12	0°♒04'01	
	9982 Jan 06 07:17	0°♒	
desc. node	9982 Jan 06 15:50	0°♒37'21	
	9982 Jan 25 06:31	0°♓	
evening max el	9982 Feb 10 19:26	20°♓27'56	25°01'21
retrograde	9982 Feb 22 16:59	27°♓22'48	
evening set	9982 Feb 28 09:36	25°♓00'44	
asc. node	9982 Mar 01 15:57	23°♓49'33	
min. Earth dist.	9982 Mar 04 20:55	20°♓00'47	0.67858 AU
inferior conj	9982 Mar 06 00:14	18°♓31'08	1°22'02
minimum elong	9982 Mar 05 22:28	18°♓36'57	1°21'30
morning rise	9982 Mar 11 11:37	12°♓34'54	
direct	9982 Mar 15 02:21	11°♓19'50	
morning max el	9982 Mar 22 07:19	15°♓19'29	19°31'18
	9982 Apr 02 16:42	0°♈	
greatest brilliancy	9982 Apr 04 00:06	1°♈55'04	-0.7m
desc. node	9982 Apr 04 16:14	2°♈54'42	
morning set	9982 Apr 16 11:36	20°♈50'04	
	9982 Apr 22 09:41	0°♉	
max. Earth dist.	9982 Apr 28 17:20	9°♉54'27	1.44797 AU
superior conj	9982 May 02 22:01	16°♉34'46	-2°12'38
minimum elong	9982 May 02 20:57	16°♉30'30	2°12'56
	9982 May 11 04:15	0°♊	
evening rise	9982 May 16 21:08	9°♊29'20	
asc. node	9982 May 28 14:17	28°♊42'13	
	9982 May 29 10:58	0°♋	
evening max el	9982 Jun 04 11:35	7°♋40'30	18°14'30
retrograde	9982 Jun 10 20:31	11°♋03'13	
evening set	9982 Jun 13 19:03	10°♋16'58	
inferior conj	9982 Jun 19 18:39	4°♋55'17	2°53'25
minimum elong	9982 Jun 19 20:52	4°♋49'03	2°52'36
min. Earth dist.	9982 Jun 22 07:35	2°♋04'40	0.63687 AU
	9982 Jun 24 08:33	30°℞♊	
morning rise	9982 Jun 25 21:15	28°♊40'45	
desc. node	9982 Jul 01 16:05	26°♊06'18	
direct	9982 Jul 02 14:14	26°♊03'28	
	9982 Jul 11 21:01	0°♋	
morning max el	9982 Jul 16 11:05	4°♋06'14	27°41'53
	9982 Aug 04 21:57	0°♌	
morning set	9982 Aug 20 06:50	27°♌32'31	
	9982 Aug 21 12:13	0°♍	
asc. node	9982 Aug 24 13:57	6°♍19'44	
max. Earth dist.	9982 Aug 25 05:52	7°♍43'22	1.32644 AU
superior conj	9982 Aug 28 04:25	13°♍59'53	0°35'19
minimum elong	9982 Aug 28 02:50	13°♍51'18	0°34'51
evening rise	9982 Sep 04 03:27	29°♍03'54	
	9982 Sep 04 13:59	0°♎	
	9982 Sep 21 13:23	0°♏	
evening max el	9982 Sep 26 22:14	6°♏07'47	23°07'32
desc. node	9982 Sep 27 14:15	6°♏45'47	
retrograde	9982 Oct 10 06:32	12°♏47'00	
evening set	9982 Oct 14 06:50	12°♏11'54	

min. Earth dist.	9982 Oct 21 07:29	8°♏57'49	0.55288 AU
inferior conj	9982 Oct 22 20:38	8°♏03'58	-5°40'40
minimum elong	9982 Oct 22 18:01	8°♏07'46	5°40'17
morning rise	9982 Oct 31 07:03	4°♏13'35	
direct	9982 Nov 03 07:07	3°♏52'12	
morning max el	9982 Nov 14 07:42	9°♏03'58	20°39'47
asc. node	9982 Nov 20 14:11	16°♏33'19	
	9982 Nov 28 12:10	0°♐	
morning set	9982 Dec 03 08:31	9°♐42'25	
superior conj	9982 Dec 10 19:32	25°♐08'59	1°30'20
minimum elong	9982 Dec 10 21:38	25°♐19'40	1°30'34
	9982 Dec 13 05:10	0°♑	
max. Earth dist.	9982 Dec 15 22:25	5°♑21'00	1.36028 AU
evening rise	9982 Dec 19 20:31	12°♑46'19	
desc. node	9982 Dec 24 12:47	21°♑09'22	
	9982 Dec 29 19:02	0°♒	
	9983 Jan 20 07:31	0°♓	
evening max el	9983 Jan 24 08:48	4°♓15'52	26°09'36
retrograde	9983 Feb 06 02:13	11°♓29'34	
evening set	9983 Feb 12 06:46	8°♓58'59	
min. Earth dist.	9983 Feb 16 11:42	4°♓33'34	0.66888 AU
asc. node	9983 Feb 16 13:08	4°♓29'10	
inferior conj	9983 Feb 18 02:40	2°♓33'12	0°30'36
minimum elong	9983 Feb 18 01:53	2°♓35'38	0°30'30
	9983 Feb 20 06:02	30°℞♒	
morning rise	9983 Feb 23 21:42	26°♒46'23	
direct	9983 Feb 27 01:18	25°♒50'00	
morning max el	9983 Mar 05 16:51	29°♒25'34	18°40'26
	9983 Mar 06 06:29	0°♓	
desc. node	9983 Mar 22 13:02	23°♓02'56	
	9983 Mar 26 23:31	0°♈	
morning set	9983 Mar 27 01:11	0°♈06'31	
max. Earth dist.	9983 Apr 11 11:00	24°♈13'55	1.45538 AU
superior conj	9983 Apr 12 07:20	25°♈33'30	-1°59'22
minimum elong	9983 Apr 11 23:23	25°♈02'23	1°59'01
	9983 Apr 15 03:19	0°♉	
evening rise	9983 Apr 27 18:23	20°♉00'33	
	9983 May 04 00:15	0°♊	
greatest brilliancy	9983 May 05 08:01	2°♊06'23	-0.9m
asc. node	9983 May 15 11:22	17°♊11'17	
evening max el	9983 May 18 23:22	21°♊15'02	18°42'21
retrograde	9983 May 25 13:39	24°♊51'51	
evening set	9983 May 28 20:06	23°♊50'50	
inferior conj	9983 Jun 03 11:05	18°♊12'45	3°14'03
minimum elong	9983 Jun 03 12:08	18°♊09'29	3°13'34
min. Earth dist.	9983 Jun 05 09:01	15°♊51'40	0.65539 AU
morning rise	9983 Jun 09 03:25	11°♊53'19	
direct	9983 Jun 15 15:13	9°♊08'30	
desc. node	9983 Jun 18 13:09	9°♊37'12	
morning max el	9983 Jun 28 21:30	16°♊59'30	26°54'32
	9983 Jul 09 16:59	0°♋	
	9983 Jul 28 19:10	0°♌	
morning set	9983 Aug 03 15:19	10°♌46'53	
max. Earth dist.	9983 Aug 07 21:38	19°♌09'13	1.33969 AU
asc. node	9983 Aug 11 10:49	26°♌25'13	
superior conj	9983 Aug 12 05:31	28°♌02'47	0°07'44
minimum elong	9983 Aug 12 05:07	28°♌00'42	0°07'23
behind sun begin	9983 Aug 12 00:01	27°♌34'03	
behind sun end	9983 Aug 12 10:13	28°♌27'23	
	9983 Aug 13 03:51	0°♍	
evening rise	9983 Aug 19 13:42	13°♍34'34	
	9983 Aug 27 21:41	0°♎	
evening max el	9983 Sep 08 13:53	16°♎23'17	21°30'40
desc. node	9983 Sep 14 11:28	20°♎50'09	

retrograde	9983 Sep 20 19:39	22°♎27'53	
evening set	9983 Sep 23 11:24	22°♎11'47	
inferior conj	9983 Oct 02 14:06	18°♎15'11	-4°54'11
minimum elong	9983 Oct 02 04:58	18°♎27'57	4°52'06
min. Earth dist.	9983 Oct 02 15:04	18°♎13'51	0.54645 AU
morning rise	9983 Oct 10 23:27	14°♎25'33	
direct	9983 Oct 14 16:25	13°♎55'46	
morning max el	9983 Oct 27 04:10	19°♎51'58	22°15'54
	9983 Nov 04 12:09	0°♏	
asc. node	9983 Nov 07 11:07	4°♏39'50	
morning set	9983 Nov 17 19:01	24°♏29'49	
	9983 Nov 20 09:11	0°♐	
superior conj	9983 Nov 24 20:51	9°♐34'35	1°38'32
minimum elong	9983 Nov 24 21:44	9°♐39'15	1°38'53
max. Earth dist.	9983 Nov 28 13:08	17°♐14'47	1.34244 AU
evening rise	9983 Dec 03 00:09	26°♐08'31	
	9983 Dec 05 00:35	0°♑	
desc. node	9983 Dec 11 09:47	11°♑29'26	
	9983 Dec 23 04:33	0°♒	
evening max el	9984 Jan 06 22:23	17°♒55'49	27°00'48
retrograde	9984 Jan 20 05:37	25°♒17'01	
evening set	9984 Jan 26 20:48	22°♒42'44	
min. Earth dist.	9984 Jan 30 20:09	18°♒51'19	0.65550 AU
inferior conj	9984 Feb 01 22:52	16°♒26'54	-0°29'26
minimum elong	9984 Feb 01 23:42	16°♒24'30	0°28'45
asc. node	9984 Feb 03 10:19	14°♒47'45	
morning rise	9984 Feb 08 03:53	10°♒52'01	
direct	9984 Feb 10 22:00	10°♒10'55	
morning max el	9984 Feb 17 07:44	13°♒34'07	18°06'13
	9984 Feb 29 03:03	0°♓	
morning set	9984 Mar 06 19:11	10°♓49'24	
desc. node	9984 Mar 08 09:49	13°♓26'28	
	9984 Mar 18 17:17	0°♈	
superior conj	9984 Mar 21 14:44	4°♈34'23	-1°27'33
minimum elong	9984 Mar 21 05:34	3°♈58'16	1°26'33
max. Earth dist.	9984 Mar 24 07:08	8°♈47'18	1.45535 AU
evening rise	9984 Apr 06 17:59	29°♈42'53	
	9984 Apr 06 22:24	0°♉	
greatest brilliancy	9984 Apr 19 11:02	19°♉12'10	-0.7m
	9984 Apr 27 01:57	0°♊	
asc. node	9984 May 01 08:32	4°♊58'39	
evening max el	9984 May 01 07:08	4°♊55'09	19°27'04
retrograde	9984 May 08 10:52	8°♊58'11	
evening set	9984 May 12 01:43	7°♊41'45	
inferior conj	9984 May 17 11:24	1°♊48'40	3°19'07
minimum elong	9984 May 17 11:16	1°♊49'08	3°18'46
	9984 May 18 20:30	30°℞♉	
min. Earth dist.	9984 May 18 18:15	0°♊07'19	0.66979 AU
morning rise	9984 May 22 20:26	25°♉28'50	
direct	9984 May 28 22:35	22°♉47'42	
desc. node	9984 Jun 04 10:09	25°♉09'13	
	9984 Jun 10 02:55	0°♊	
morning max el	9984 Jun 10 07:47	0°♊12'18	25°43'09
	9984 Jul 02 15:07	0°♋	
morning set	9984 Jul 16 09:42	23°♋19'37	
	9984 Jul 19 23:39	0°♌	
max. Earth dist.	9984 Jul 20 03:10	0°♌16'41	1.35765 AU
superior conj	9984 Jul 25 22:20	11°♌38'29	-0°23'19
minimum elong	9984 Jul 25 23:45	11°♌45'37	0°23'23
asc. node	9984 Jul 28 07:43	16°♌29'27	
evening rise	9984 Aug 02 20:41	27°♌52'54	
	9984 Aug 03 21:36	0°♍	
evening max el	9984 Aug 20 17:36	27°♍13'31	20°08'50
	9984 Aug 24 00:45	0°♎	

retrograde	9984 Aug 31 08:48	2°♎29'59	
desc. node	9984 Aug 31 08:43	2°♎29'59	
evening set	9984 Sep 02 07:26	2°♎20'11	
	9984 Sep 08 12:04	30°℞♍	
inferior conj	9984 Sep 11 08:39	28°♍21'24	-3°18'29
minimum elong	9984 Sep 10 23:59	28°♍34'17	3°15'33
min. Earth dist.	9984 Sep 13 00:16	27°♍22'31	0.54944 AU
morning rise	9984 Sep 19 15:29	24°♍11'43	
direct	9984 Sep 24 02:50	23°♍28'27	
morning max el	9984 Oct 07 16:45	0°♎06'51	24°02'44
	9984 Oct 07 13:50	0°♎	
asc. node	9984 Oct 24 08:01	23°♎25'28	
	9984 Oct 27 18:38	0°♏	
morning set	9984 Nov 01 06:47	9°♏18'06	
superior conj	9984 Nov 08 03:51	24°♏14'27	1°40'02
minimum elong	9984 Nov 08 03:32	24°♏12'44	1°40'21
max. Earth dist.	9984 Nov 10 11:58	29°♏17'25	1.32872 AU
	9984 Nov 10 19:56	0°♐	
evening rise	9984 Nov 15 15:26	10°♐00'36	
	9984 Nov 26 09:16	0°♑	
desc. node	9984 Nov 27 06:50	1°♑31'03	
	9984 Dec 18 04:04	0°♒	
evening max el	9984 Dec 19 10:43	1°♒15'08	27°27'52
retrograde	9985 Jan 02 02:25	8°♒36'01	
evening set	9985 Jan 09 01:16	6°♒04'43	
min. Earth dist.	9985 Jan 12 20:05	2°♒45'10	0.63876 AU
inferior conj	9985 Jan 15 10:11	0°♒05'15	-1°37'11
minimum elong	9985 Jan 15 13:16	29°♑57'17	1°35'32
	9985 Jan 15 12:13	30°℞♑	
asc. node	9985 Jan 20 07:28	25°♑43'22	
morning rise	9985 Jan 22 03:11	24°♑45'15	
direct	9985 Jan 24 13:40	24°♑15'47	
morning max el	9985 Jan 31 01:11	27°♑37'07	17°49'08
	9985 Feb 02 04:54	0°♒	
morning set	9985 Feb 16 16:52	22°♒52'35	
	9985 Feb 20 21:28	0°♓	
desc. node	9985 Feb 23 06:36	4°♓00'07	
superior conj	9985 Mar 01 13:58	14°♓23'57	-0°45'37
minimum elong	9985 Mar 01 09:00	14°♓03'45	0°44'46
max. Earth dist.	9985 Mar 07 02:21	23°♓15'01	1.44795 AU
	9985 Mar 11 09:19	0°♈	
evening rise	9985 Mar 17 05:52	9°♈03'42	
	9985 Mar 31 04:25	0°♉	
evening max el	9985 Apr 14 09:26	18°♉36'29	20°26'51
asc. node	9985 Apr 18 05:44	21°♉50'48	
retrograde	9985 Apr 22 09:38	23°♉15'50	
evening set	9985 Apr 26 09:39	21°♉43'48	
inferior conj	9985 May 01 16:50	15°♉37'29	3°11'32
minimum elong	9985 May 01 15:41	15°♉41'27	3°11'08
min. Earth dist.	9985 May 02 09:31	14°♉40'20	0.67959 AU
morning rise	9985 May 06 21:29	9°♉20'02	
direct	9985 May 12 11:20	6°♉51'18	
desc. node	9985 May 22 07:05	12°♉11'51	
morning max el	9985 May 23 17:23	13°♉35'32	24°17'36
	9985 Jun 06 00:22	0°♊	
	9985 Jun 25 11:26	0°♋	
morning set	9985 Jun 28 09:16	4°♋58'44	
max. Earth dist.	9985 Jul 02 01:20	11°♋27'35	1.37906 AU
superior conj	9985 Jul 09 03:34	24°♋38'51	-0°56'11
minimum elong	9985 Jul 09 07:14	24°♋56'26	0°55'57
	9985 Jul 11 21:50	0°♌	
asc. node	9985 Jul 15 04:41	6°♌28'48	
evening rise	9985 Jul 17 21:51	11°♌52'09	
	9985 Jul 27 17:32	0°♍	

evening max el	9985 Aug 03 10:50	8°♍50'40	19°07'32
retrograde	9985 Aug 12 10:25	13°♍18'33	
evening set	9985 Aug 14 07:12	13°♍07'47	
desc. node	9985 Aug 18 05:57	11°♍41'58	
inferior conj	9985 Aug 22 17:56	8°♍55'11	-1°23'46
minimum elong	9985 Aug 22 14:16	9°♍01'24	1°22'30
min. Earth dist.	9985 Aug 25 13:36	7°♍00'38	0.56144 AU
morning rise	9985 Aug 30 18:20	4°♍10'02	
direct	9985 Sep 05 01:05	3°♍05'12	
morning max el	9985 Sep 19 05:17	10°♍19'01	25°44'12
	9985 Oct 04 04:09	0°♎	
asc. node	9985 Oct 11 04:54	12°♎40'24	
morning set	9985 Oct 16 18:08	24°♎02'41	
	9985 Oct 19 12:06	0°♏	
superior conj	9985 Oct 23 14:15	9°♏01'57	1°35'28
minimum elong	9985 Oct 23 12:57	8°♏54'41	1°35'38
max. Earth dist.	9985 Oct 24 17:24	11°♏31'46	1.31963 AU
evening rise	9985 Oct 30 15:19	24°♏14'52	
	9985 Nov 02 10:59	0°♐	
desc. node	9985 Nov 14 03:59	21°♐06'28	
	9985 Nov 20 01:20	0°♑	
evening max el	9985 Dec 01 19:45	14°♑01'11	27°24'43
retrograde	9985 Dec 15 16:06	21°♑17'09	
evening set	9985 Dec 22 17:09	18°♑57'48	
min. Earth dist.	9985 Dec 26 09:58	16°♑04'32	0.61928 AU
inferior conj	9985 Dec 29 09:35	13°♑20'35	-2°50'19
minimum elong	9985 Dec 29 15:13	13°♑07'39	2°47'48
morning rise	9986 Jan 05 15:44	8°♑18'37	
asc. node	9986 Jan 07 04:34	7°♑59'10	
direct	9986 Jan 07 21:01	7°♑57'05	
morning max el	9986 Jan 14 18:01	11°♑26'15	17°49'51
	9986 Jan 27 04:10	0°♒	
morning set	9986 Jan 30 12:12	5°♒57'12	
desc. node	9986 Feb 10 03:27	24°♒40'12	
superior conj	9986 Feb 10 13:52	25°♒24'39	-0°03'17
minimum elong	9986 Feb 10 13:35	25°♒23'25	0°02'58
behind sun begin	9986 Feb 10 05:02	24°♒47'00	
behind sun end	9986 Feb 10 22:07	25°♒59'45	
	9986 Feb 13 07:08	0°♓	
max. Earth dist.	9986 Feb 17 17:55	7°♓19'53	1.43407 AU
evening rise	9986 Feb 24 21:22	18°♓41'35	
	9986 Mar 04 06:46	0°♈	
	9986 Mar 26 02:23	0°♉	
evening max el	9986 Mar 28 06:11	2°♉18'46	21°38'30
asc. node	9986 Apr 05 02:56	7°♉32'47	
retrograde	9986 Apr 06 07:50	7°♉39'58	
evening set	9986 Apr 10 18:03	5°♉52'39	
	9986 Apr 15 18:01	30°℞♈	
inferior conj	9986 Apr 16 01:04	29°♈35'28	2°53'07
minimum elong	9986 Apr 15 23:12	29°♈41'57	2°52'35
min. Earth dist.	9986 Apr 16 04:40	29°♈22'53	0.68486 AU
morning rise	9986 Apr 21 04:10	23°♈22'05	
direct	9986 Apr 26 04:35	21°♈11'38	
morning max el	9986 May 06 03:47	27°♈05'34	22°47'40
	9986 May 08 20:47	0°♉	
desc. node	9986 May 09 04:00	0°♉20'34	
	9986 May 30 14:41	0°♊	
morning set	9986 Jun 09 08:40	15°♊30'04	
max. Earth dist.	9986 Jun 13 22:16	23°♊09'52	1.40184 AU
	9986 Jun 17 20:45	0°♋	
superior conj	9986 Jun 21 17:02	6°♋53'25	-1°28'14
minimum elong	9986 Jun 21 22:45	7°♋19'24	1°27'52
evening rise	9986 Jul 01 13:59	25°♋22'59	
asc. node	9986 Jul 02 01:40	26°♋18'27	

	9986 Jul	04	00:32	0°♌	
evening max el	9986 Jul	17	14:45	21°♌10'01	18°27'22
retrograde	9986 Jul	25	06:27	25°♌00'00	
evening set	9986 Jul	27	09:03	24°♌43'23	
inferior conj	9986 Aug	04	00:25	20°♌11'18	0°20'12
minimum elong	9986 Aug	04	01:08	20°♌09'51	0°19'38
desc. node	9986 Aug	05	03:09	19°♌17'47	
min. Earth dist.	9986 Aug	07	08:33	17°♌33'00	0.58019 AU
morning rise	9986 Aug	11	13:40	14°♌49'31	
direct	9986 Aug	17	14:11	13°♌15'50	
morning max el	9986 Aug	31	23:01	20°♌55'15	27°03'17
	9986 Sep	08	20:05	0°♍	
	9986 Sep	26	22:37	0°♎	
asc. node	9986 Sep	28	01:46	2°♎16'10	
morning set	9986 Oct	01	03:20	8°♎37'50	
superior conj	9986 Oct	08	02:00	23°♎49'58	1°25'16
minimum elong	9986 Oct	08	00:01	23°♎38'54	1°25'11
max. Earth dist.	9986 Oct	08	02:27	23°♎52'24	1.31533 AU
	9986 Oct	10	20:42	0°♏	
evening rise	9986 Oct	14	21:08	8°♏43'27	
	9986 Oct	25	20:05	0°♐	
desc. node	9986 Nov	01	01:08	10°♐04'28	
evening max el	9986 Nov	13	23:00	26°♐02'19	26°47'44
	9986 Nov	18	20:16	0°♑	
retrograde	9986 Nov	27	21:21	3°♑11'02	
evening set	9986 Dec	04	16:26	1°♑13'56	
	9986 Dec	06	15:39	30°℞♐	
min. Earth dist.	9986 Dec	08	13:16	28°♐36'27	0.59825 AU
inferior conj	9986 Dec	11	17:34	26°♐03'34	-4°03'35
minimum elong	9986 Dec	12	01:10	25°♐48'18	4°00'53
morning rise	9986 Dec	19	12:31	21°♐22'19	
direct	9986 Dec	21	15:59	21°♐05'12	
asc. node	9986 Dec	25	01:37	21°♐50'25	
morning max el	9986 Dec	29	06:41	24°♐51'27	18°09'40
	9987 Jan	02	12:54	0°♑	
morning set	9987 Jan	13	23:01	19°♑44'42	
	9987 Jan	19	10:32	0°♒	
superior conj	9987 Jan	23	13:47	7°♒33'03	0°33'27
minimum elong	9987 Jan	23	16:13	7°♒43'58	0°33'26
desc. node	9987 Jan	28	00:20	15°♒23'06	
max. Earth dist.	9987 Jan	31	04:46	20°♒49'33	1.41527 AU
evening rise	9987 Feb	05	05:07	29°♒06'14	
	9987 Feb	05	18:27	0°♓	
	9987 Feb	25	20:22	0°♈	
evening max el	9987 Mar	10	22:39	16°♈03'52	22°57'22
retrograde	9987 Mar	21	03:50	22°♈06'28	
asc. node	9987 Mar	23	00:06	21°♈49'52	
evening set	9987 Mar	26	01:19	20°♈04'30	
inferior conj	9987 Mar	31	10:06	13°♈39'31	2°24'59
minimum elong	9987 Mar	31	07:54	13°♈47'06	2°24'19
min. Earth dist.	9987 Mar	31	01:26	14°♈09'32	0.68573 AU
morning rise	9987 Apr	05	14:23	7°♈31'40	
direct	9987 Apr	10	01:15	5°♈42'32	
morning max el	9987 Apr	18	18:19	10°♈45'00	21°22'18
desc. node	9987 Apr	26	00:52	19°♈17'31	
	9987 May	03	19:14	0°♉	
morning set	9987 May	20	05:15	24°♉48'31	
	9987 May	23	11:26	0°♊	
max. Earth dist.	9987 May	27	00:18	5°♊44'49	1.42328 AU
superior conj	9987 Jun	03	10:13	18°♊12'36	-1°55'09
minimum elong	9987 Jun	03	16:20	18°♊38'57	1°55'03
	9987 Jun	10	03:11	0°♋	
evening rise	9987 Jun	14	17:04	8°♋15'50	
asc. node	9987 Jun	18	22:40	15°♋54'02	
	9987 Jun	27	15:13	0°♌	
evening max el	9987 Jul	01	01:22	4°♌02'17	18°07'21
retrograde	9987 Jul	07	20:27	7°♌29'41	
evening set	9987 Jul	10	06:54	7°♌03'25	
inferior conj	9987 Jul	17	03:55	2°♌10'48	1°39'29
minimum elong	9987 Jul	17	06:35	2°♌04'38	1°38'16
	9987 Jul	19	12:19	30°℞♋	
min. Earth dist.	9987 Jul	20	10:40	29°♋09'58	0.60242 AU
desc. node	9987 Jul	23	00:18	27°♋06'06	
morning rise	9987 Jul	24	03:24	26°♋20'38	
direct	9987 Jul	30	16:03	24°♋17'13	
	9987 Aug	11	14:49	0°♌	
morning max el	9987 Aug	13	23:38	2°♌12'17	27°48'12
	9987 Sep	03	06:02	0°♍	
asc. node	9987 Sep	14	22:37	22°♍06'47	
morning set	9987 Sep	15	08:38	22°♍58'51	
	9987 Sep	18	15:50	0°♎	
max. Earth dist.	9987 Sep	21	11:33	6°♎10'42	1.31585 AU
superior conj	9987 Sep	22	13:16	8°♎33'00	1°09'46
minimum elong	9987 Sep	22	11:02	8°♎20'34	1°09'27
evening rise	9987 Sep	29	06:41	23°♎20'21	
	9987 Oct	02	10:47	0°♏	
desc. node	9987 Oct	18	22:19	28°♏10'37	
	9987 Oct	20	07:41	0°♐	
evening max el	9987 Oct	26	18:24	7°♐12'27	25°38'11
retrograde	9987 Nov	09	16:00	14°♐13'09	
evening set	9987 Nov	15	18:22	12°♐47'00	
min. Earth dist.	9987 Nov	20	06:50	10°♐09'56	0.57770 AU
inferior conj	9987 Nov	23	06:48	8°♐04'48	-5°06'25
minimum elong	9987 Nov	23	13:54	7°♐52'25	5°04'41
morning rise	9987 Dec	01	11:46	3°♐46'00	
direct	9987 Dec	03	18:35	3°♐29'50	
asc. node	9987 Dec	11	22:38	7°♐12'19	
morning max el	9987 Dec	12	11:21	7°♐42'07	18°50'18
	9987 Dec	26	18:59	0°♑	
morning set	9987 Dec	28	20:26	4°♑00'44	
superior conj	9988 Jan	06	09:18	20°♑36'14	1°02'05
minimum elong	9988 Jan	06	12:28	20°♑51'16	1°02'03
	9988 Jan	11	11:02	0°♒	
max. Earth dist.	9988 Jan	13	11:50	3°♒38'12	1.39376 AU
desc. node	9988 Jan	14	21:13	6°♒04'49	
evening rise	9988 Jan	17	10:13	10°♒27'24	
	9988 Jan	29	15:10	0°♓	
evening max el	9988 Feb	21	12:42	29°♓51'54	24°17'30
	9988 Feb	21	15:59	0°♈	
retrograde	9988 Mar	03	20:18	6°♈29'50	
asc. node	9988 Mar	08	21:17	4°♈32'16	
evening set	9988 Mar	09	05:54	4°♈14'31	
	9988 Mar	13	01:46	30°℞♓	
min. Earth dist.	9988 Mar	13	21:31	28°♓54'36	0.68237 AU
inferior conj	9988 Mar	14	18:02	27°♓45'30	1°47'37
minimum elong	9988 Mar	14	15:58	27°♓52'30	1°46'59
morning rise	9988 Mar	20	02:06	21°♓44'40	
direct	9988 Mar	23	23:59	20°♓17'26	
morning max el	9988 Mar	31	15:55	24°♓36'10	20°07'47
	9988 Apr	05	09:34	0°♈	
desc. node	9988 Apr	11	21:40	8°♈49'03	
	9988 Apr	26	02:54	0°♉	
morning set	9988 Apr	28	06:11	3°♉17'05	
max. Earth dist.	9988 May	08	09:55	19°♉12'43	1.44069 AU
superior conj	9988 May	14	03:20	28°♉28'25	-2°11'03
minimum elong	9988 May	14	06:08	28°♉39'51	2°11'20
	9988 May	15	01:39	0°♊	
evening rise	9988 May	27	02:22	20°♊19'22	

	9988 Jun	01	17:31	0°♋	
asc. node	9988 Jun	04	19:42	5°♋09'31	
evening max el	9988 Jun	13	14:49	17°♋17'02	18°06'31
retrograde	9988 Jun	20	00:31	20°♋37'20	
evening set	9988 Jun	22	18:43	19°♋58'46	
inferior conj	9988 Jun	29	00:57	14°♋46'56	2°32'55
minimum elong	9988 Jun	29	03:39	14°♋39'49	2°31'54
min. Earth dist.	9988 Jul	01	21:36	11°♋46'53	0.62488 AU
morning rise	9988 Jul	05	10:41	8°♋38'41	
desc. node	9988 Jul	08	21:25	6°♋45'44	
direct	9988 Jul	12	04:02	6°♋11'18	
morning max el	9988 Jul	26	06:10	14°♋13'26	27°54'48
	9988 Aug	07	23:50	0°♌	
	9988 Aug	25	19:12	0°♍	
morning set	9988 Aug	29	08:00	7°♍00'12	
asc. node	9988 Aug	31	19:29	12°♍06'59	
max. Earth dist.	9988 Sep	03	16:59	18°♍16'23	1.32119 AU
superior conj	9988 Sep	05	22:15	23°♍05'30	0°49'16
minimum elong	9988 Sep	05	20:15	22°♍54'36	0°48'48
	9988 Sep	09	01:49	0°♎	
evening rise	9988 Sep	12	18:02	7°♎59'50	
	9988 Sep	24	01:48	0°♏	
desc. node	9988 Oct	04	19:31	15°♏05'09	
evening max el	9988 Oct	07	06:42	17°♏38'29	24°05'17
retrograde	9988 Oct	20	22:30	24°♏28'39	
evening set	9988 Oct	25	19:50	23°♏36'15	
min. Earth dist.	9988 Oct	31	17:19	20°♏41'02	0.56028 AU
inferior conj	9988 Nov	02	23:39	19°♏18'06	-5°41'22
minimum elong	9988 Nov	03	01:41	19°♏14'58	5°40'59
morning rise	9988 Nov	11	09:35	15°♏20'09	
direct	9988 Nov	14	01:57	15°♏01'34	
morning max el	9988 Nov	24	04:34	19°♏48'51	19°53'25
asc. node	9988 Nov	27	19:37	23°♏50'58	
	9988 Dec	02	01:54	0°♐	
morning set	9988 Dec	12	00:58	18°♐35'23	
	9988 Dec	17	15:30	0°♑	
superior conj	9988 Dec	19	19:35	4°♑21'18	1°22'18
minimum elong	9988 Dec	19	22:15	4°♑34'37	1°22'26
max. Earth dist.	9988 Dec	25	18:21	15°♑51'41	1.37198 AU
evening rise	9988 Dec	29	12:04	22°♑42'50	
desc. node	9988 Dec	31	18:09	26°♑42'03	
	9989 Jan	02	16:03	0°♒	
	9989 Jan	22	10:30	0°♓	
evening max el	9989 Feb	03	02:00	13°♓41'22	25°31'59
retrograde	9989 Feb	15	08:22	20°♓45'06	
evening set	9989 Feb	21	06:18	18°♓18'46	
asc. node	9989 Feb	23	18:27	15°♓48'19	
min. Earth dist.	9989 Feb	25	14:45	13°♓33'50	0.67496 AU
inferior conj	9989 Feb	26	23:04	11°♓50'21	1°01'18
minimum elong	9989 Feb	26	21:38	11°♓54'56	1°00'55
morning rise	9989 Mar	04	13:25	5°♓58'05	
direct	9989 Mar	07	23:18	4°♓51'17	
morning max el	9989 Mar	14	21:29	8°♓38'45	19°07'44
greatest brilliancy	9989 Mar	28	02:34	26°♓15'11	-0.7m
desc. node	9989 Mar	29	18:29	28°♓46'06	
	9989 Mar	30	13:54	0°♈	
morning set	9989 Apr	07	08:34	11°♈58'02	
	9989 Apr	18	22:48	0°♉	
max. Earth dist.	9989 Apr	21	01:38	3°♉19'26	1.45204 AU
superior conj	9989 Apr	23	21:33	7°♉47'07	-2°09'33
minimum elong	9989 Apr	23	17:16	7°♉30'10	2°09'38
	9989 May	07	16:39	0°♊	
evening rise	9989 May	08	13:29	1°♊25'21	
asc. node	9989 May	22	16:46	23°♊58'10	
	9989 May	27	10:07	0°♋	
evening max el	9989 May	28	03:57	0°♋46'16	18°24'07
retrograde	9989 Jun	03	14:06	4°♋13'36	
evening set	9989 Jun	06	15:59	3°♋21'06	
	9989 Jun	10	14:26	30°℞♊	
inferior conj	9989 Jun	12	11:26	27°♊51'58	3°04'17
minimum elong	9989 Jun	12	13:12	27°♊46'48	3°03'38
min. Earth dist.	9989 Jun	14	17:59	25°♊12'29	0.64521 AU
morning rise	9989 Jun	18	09:20	21°♊34'28	
direct	9989 Jun	25	00:35	18°♊52'55	
desc. node	9989 Jun	25	18:29	18°♊54'47	
morning max el	9989 Jul	08	16:13	26°♊52'13	27°25'19
	9989 Jul	11	14:26	0°♋	
	9989 Aug	01	15:25	0°♌	
morning set	9989 Aug	12	22:51	20°♌34'37	
max. Earth dist.	9989 Aug	17	14:49	29°♌59'07	1.33150 AU
	9989 Aug	17	14:59	0°♍	
asc. node	9989 Aug	18	16:20	2°♍11'55	
superior conj	9989 Aug	21	02:53	7°♍21'13	0°24'06
minimum elong	9989 Aug	21	01:43	7°♍15'01	0°23'40
evening rise	9989 Aug	28	05:17	22°♍35'39	
	9989 Aug	31	18:46	0°♎	
evening max el	9989 Sep	18	18:14	27°♎46'39	22°25'02
	9989 Sep	21	06:10	0°♏	
desc. node	9989 Sep	21	16:45	0°♏20'46	
retrograde	9989 Oct	01	17:13	4°♏14'04	
evening set	9989 Oct	05	02:32	3°♏48'43	
min. Earth dist.	9989 Oct	13	00:54	0°♏17'46	0.54903 AU
inferior conj	9989 Oct	13	22:59	29°♎46'35	-5°28'04
minimum elong	9989 Oct	13	17:00	29°♎55'02	5°27'08
	9989 Oct	13	13:29	30°℞♎	
morning rise	9989 Oct	22	09:11	25°♎59'17	
direct	9989 Oct	25	16:00	25°♎34'59	
	9989 Nov	05	03:06	0°♏	
morning max el	9989 Nov	06	08:20	1°♏05'04	21°18'42
asc. node	9989 Nov	14	16:34	11°♏29'36	
	9989 Nov	24	19:13	0°♐	
morning set	9989 Nov	26	09:54	3°♐19'54	
superior conj	9989 Dec	03	16:25	18°♐35'10	1°34'40
minimum elong	9989 Dec	03	18:00	18°♐43'26	1°34'58
max. Earth dist.	9989 Dec	08	04:40	27°♐45'25	1.35220 AU
	9989 Dec	09	07:57	0°♑	
evening rise	9989 Dec	12	07:21	5°♑43'17	
desc. node	9989 Dec	18	15:09	17°♑09'45	
	9989 Dec	26	10:47	0°♒	
evening max el	9990 Jan	16	15:17	27°♒26'14	26°33'48
	9990 Jan	19	11:34	0°♓	
retrograde	9990 Jan	29	15:16	4°♓44'51	
evening set	9990 Feb	05	00:42	2°♓11'37	
	9990 Feb	07	08:40	30°℞♒	
min. Earth dist.	9990 Feb	09	03:01	28°♒01'04	0.66363 AU
inferior conj	9990 Feb	10	23:06	25°♒49'14	0°06'09
minimum elong	9990 Feb	10	22:56	25°♒49'46	0°06'21
transit middle	9990 Feb	10	22:56	25°♒49'46	0°06'21
transit begin	9990 Feb	10	20:16	25°♒57'47	
transit end	9990 Feb	11	01:36	25°♒41'45	
asc. node	9990 Feb	10	15:38	26°♒11'41	
morning rise	9990 Feb	16	22:09	20°♒07'29	
direct	9990 Feb	19	21:27	19°♒18'11	
morning max el	9990 Feb	26	09:41	22°♒47'07	18°23'51
	9990 Mar	04	06:56	0°♓	
desc. node	9990 Mar	16	15:17	19°♓01'25	
morning set	9990 Mar	18	09:30	21°♓49'23	
	9990 Mar	23	13:07	0°♈	

superior conj	9990 Apr 03	03:40	16°♈40'26	-1°47'46
minimum elong	9990 Apr 02	18:19	16°♈03'49	1°47'04
max. Earth dist.	9990 Apr 03	20:28	17°♈46'05	1.45621 AU
	9990 Apr 11	16:10	0°♉	
evening rise	9990 Apr 19	00:50	11°♉33'36	
greatest brilliancy	9990 Apr 29	00:14	27°♉12'09	-0.8m
	9990 Apr 30	20:00	0°♊	
asc. node	9990 May 09	13:53	12°♊11'13	
evening max el	9990 May 11	14:12	14°♊23'43	18°59'24
retrograde	9990 May 18	09:28	18°♊10'47	
evening set	9990 May 21	19:18	17°♊03'25	
inferior conj	9990 May 27	07:38	11°♊18'41	3°17'56
minimum elong	9990 May 27	08:11	11°♊16'59	3°17'31
min. Earth dist.	9990 May 28	23:06	9°♊13'28	0.66197 AU
morning rise	9990 Jun 01	20:28	4°♊58'22	
direct	9990 Jun 08	04:30	2°♊13'48	
desc. node	9990 Jun 12	15:31	3°♊21'09	
morning max el	9990 Jun 21	02:59	9°♊56'25	26°26'37
	9990 Jul 06	22:39	0°♋	
	9990 Jul 25	03:53	0°♌	
morning set	9990 Jul 27	01:57	3°♌33'49	
max. Earth dist.	9990 Jul 31	02:12	11°♌16'15	1.34676 AU
superior conj	9990 Aug 05	00:52	21°♌14'10	-0°05'06
minimum elong	9990 Aug 05	01:10	21°♌15'43	0°05'20
behind sun begin	9990 Aug 04	19:35	20°♌46'56	
behind sun end	9990 Aug 05	06:46	21°♌44'32	
asc. node	9990 Aug 05	13:14	22°♌17'57	
	9990 Aug 09	05:47	0°♍	
evening rise	9990 Aug 12	14:28	7°♍02'31	
	9990 Aug 25	00:08	0°♎	
evening max el	9990 Aug 31	14:29	8°♎14'55	20°53'33
desc. node	9990 Sep 08	13:58	13°♎27'08	
retrograde	9990 Sep 12	05:11	14°♎00'26	
evening set	9990 Sep 14	11:07	13°♎48'22	
inferior conj	9990 Sep 23	15:10	9°♎52'31	-4°18'14
minimum elong	9990 Sep 23	05:20	10°♎06'29	4°15'27
min. Earth dist.	9990 Sep 24	09:18	9°♎26'44	0.54653 AU
morning rise	9990 Oct 01	23:40	5°♎56'27	
direct	9990 Oct 06	00:00	5°♎21'51	
morning max el	9990 Oct 19	00:47	11°♎37'17	23°00'48
asc. node	9990 Nov 01	13:31	29°♎54'24	
	9990 Nov 01	14:48	0°♏	
morning set	9990 Nov 10	21:10	18°♏08'25	
	9990 Nov 16	09:30	0°♐	
superior conj	9990 Nov 17	20:30	3°♐08'14	1°39'56
minimum elong	9990 Nov 17	20:52	3°♐10'10	1°40'18
max. Earth dist.	9990 Nov 20	22:31	9°♐40'24	1.33606 AU
evening rise	9990 Nov 25	16:23	19°♐19'36	
	9990 Dec 01	07:31	0°♑	
desc. node	9990 Dec 05	12:11	7°♑22'49	
	9990 Dec 20	13:16	0°♒	
evening max el	9990 Dec 30	04:25	10°♒58'29	27°15'37
retrograde	9991 Jan 12	16:11	18°♒21'11	
evening set	9991 Jan 19	11:00	15°♒47'10	
min. Earth dist.	9991 Jan 23	08:10	12°♒09'37	0.64872 AU
inferior conj	9991 Jan 25	15:52	9°♒37'11	-0°57'20
minimum elong	9991 Jan 25	17:35	9°♒32'27	0°56'16
asc. node	9991 Jan 28	12:48	6°♒39'01	
morning rise	9991 Feb 01	01:47	4°♒08'17	
direct	9991 Feb 03	16:16	3°♒32'45	
morning max el	9991 Feb 10	02:02	6°♒54'17	17°56'47
	9991 Feb 25	18:32	0°♓	
morning set	9991 Feb 27	15:49	3°♓07'57	
desc. node	9991 Mar 03	12:05	9°♓29'41	

superior conj	9991 Mar 13	16:01	25°♓57'28	-1°10'23
minimum elong	9991 Mar 13	08:15	25°♓26'35	1°09'20
	9991 Mar 16	05:12	0°♈	
max. Earth dist.	9991 Mar 17	15:54	2°♈16'46	1.45299 AU
evening rise	9991 Mar 29	17:38	21°♈01'37	
	9991 Apr 04	14:17	0°♉	
greatest brilliancy	9991 Apr 13	03:41	12°♉50'55	-0.6m
evening max el	9991 Apr 24	19:44	28°♉04'40	19°50'56
asc. node	9991 Apr 26	11:03	29°♉36'55	
	9991 Apr 26	22:08	0°♊	
retrograde	9991 May 02	07:33	2°♊22'18	
evening set	9991 May 06	02:07	0°♊59'25	
	9991 May 07	06:25	30°℞♉	
inferior conj	9991 May 11	10:26	25°♉00'42	3°17'21
minimum elong	9991 May 11	09:50	25°♉02'44	3°16'58
min. Earth dist.	9991 May 12	11:14	23°♉37'32	0.67446 AU
morning rise	9991 May 16	17:13	18°♉41'31	
direct	9991 May 22	14:26	16°♉04'25	
desc. node	9991 May 30	12:29	19°♉34'54	
morning max el	9991 Jun 03	12:45	23°♉13'57	25°07'55
	9991 Jun 09	12:23	0°♊	
	9991 Jun 30	07:02	0°♋	
morning set	9991 Jul 09	12:59	15°♋45'42	
max. Earth dist.	9991 Jul 13	03:32	22°♋19'59	1.36638 AU
	9991 Jul 17	04:38	0°♌	
superior conj	9991 Jul 19	13:13	4°♌36'17	-0°37'09
minimum elong	9991 Jul 19	15:34	4°♌47'49	0°37'04
asc. node	9991 Jul 23	10:09	12°♌20'48	
evening rise	9991 Jul 27	19:17	21°♌13'34	
	9991 Aug 01	05:38	0°♍	
evening max el	9991 Aug 14	00:14	19°♍25'40	19°40'13
retrograde	9991 Aug 23	21:56	24°♍20'08	
evening set	9991 Aug 25	18:24	24°♍10'36	
desc. node	9991 Aug 26	11:13	24°♍02'13	
inferior conj	9991 Sep 03	14:40	20°♍07'31	-2°30'07
minimum elong	9991 Sep 03	07:55	20°♍18'04	2°27'43
min. Earth dist.	9991 Sep 05	20:13	18°♍43'59	0.55359 AU
morning rise	9991 Sep 11	19:21	15°♍43'46	
direct	9991 Sep 16	15:13	14°♍52'04	
morning max el	9991 Sep 30	12:19	21°♍46'55	24°47'27
	9991 Oct 07	17:06	0°♎	
asc. node	9991 Oct 19	10:25	18°♎53'44	
	9991 Oct 24	23:46	0°♏	
morning set	9991 Oct 26	08:58	2°♏55'46	
superior conj	9991 Nov 02	05:13	17°♏52'25	1°38'48
minimum elong	9991 Nov 02	04:27	17°♏48'11	1°39'04
max. Earth dist.	9991 Nov 04	00:26	21°♏48'18	1.32432 AU
	9991 Nov 07	20:33	0°♐	
evening rise	9991 Nov 09	11:43	3°♐22'38	
desc. node	9991 Nov 22	09:18	27°♐14'42	
	9991 Nov 24	01:59	0°♑	
evening max el	9991 Dec 12	15:54	24°♑06'32	27°30'36
	9991 Dec 20	17:31	0°♒	
retrograde	9991 Dec 26	10:12	1°♒25'30	
	9991 Dec 31	18:40	30°℞♑	
evening set	9992 Jan 02	10:34	28°♑58'29	
min. Earth dist.	9992 Jan 06	04:14	25°♑50'40	0.63072 AU
inferior conj	9992 Jan 08	22:35	23°♑07'39	-2°07'46
minimum elong	9992 Jan 09	02:44	22°♑57'24	2°05'42
asc. node	9992 Jan 15	09:57	18°♑05'37	
morning rise	9992 Jan 15	21:04	17°♑54'37	
direct	9992 Jan 18	04:57	17°♑28'58	
morning max el	9992 Jan 24	19:37	20°♑52'47	17°47'08
	9992 Jan 31	17:23	0°♒	
morning set	9992 Feb 09	23:37	15°♒40'42	

desc. node	9992 Feb	18	08:54	0°♓06'57	
	9992 Feb	18	07:16	0°♓	
superior conj	9992 Feb	22	01:20	6°♓16'42	-0°27'15
minimum elong	9992 Feb	21	22:31	6°♓05'02	0°26'37
max. Earth dist.	9992 Feb	28	09:57	16°♓37'31	1.44278 AU
	9992 Mar	07	22:29	0°♈	
evening rise	9992 Mar	08	05:16	0°♈26'05	
	9992 Mar	28	06:24	0°♉	
evening max el	9992 Apr	06	19:45	11°♉47'16	20°56'11
asc. node	9992 Apr	12	08:15	16°♉01'38	
retrograde	9992 Apr	15	06:10	16°♉43'32	
evening set	9992 Apr	19	10:26	15°♉04'59	
inferior conj	9992 Apr	24	17:19	8°♉53'58	3°04'57
minimum elong	9992 Apr	24	15:49	8°♉59'09	3°04'30
min. Earth dist.	9992 Apr	25	04:21	8°♉15'47	0.68243 AU
morning rise	9992 Apr	29	20:58	2°♉38'15	
direct	9992 May	05	05:19	0°♉16'34	
morning max el	9992 May	15	22:09	6°♉39'34	23°39'18
desc. node	9992 May	16	09:24	7°♉08'18	
	9992 Jun	03	01:02	0°♊	
morning set	9992 Jun	20	02:46	26°♊56'59	
	9992 Jun	21	21:34	0°♋	
max. Earth dist.	9992 Jun	24	00:16	3°♋40'42	1.38878 AU
superior conj	9992 Jul	01	12:17	17°♋18'36	-1°10'05
minimum elong	9992 Jul	01	16:54	17°♋40'16	1°09'45
	9992 Jul	08	03:05	0°♌	
asc. node	9992 Jul	09	07:07	2°♌16'36	
evening rise	9992 Jul	10	16:59	5°♌01'43	
	9992 Jul	25	15:39	0°♍	
evening max el	9992 Jul	26	22:29	1°♍21'44	18°47'54
retrograde	9992 Aug	04	06:56	5°♍31'29	
evening set	9992 Aug	06	05:54	5°♍18'37	
desc. node	9992 Aug	12	08:25	2°♍22'49	
inferior conj	9992 Aug	14	08:32	0°♍57'51	-0°37'07
minimum elong	9992 Aug	14	06:59	1°♍00'38	0°36'45
	9992 Aug	15	16:13	30°℞♌	
min. Earth dist.	9992 Aug	17	11:20	28°♌42'54	0.56884 AU
morning rise	9992 Aug	22	04:45	25°♌56'59	
direct	9992 Aug	27	19:42	24°♌40'32	
	9992 Sep	08	18:39	0°♍	
morning max el	9992 Sep	11	02:22	2°♍05'30	26°21'26
	9992 Sep	30	22:25	0°♎	
asc. node	9992 Oct	05	07:17	8°♎18'32	
morning set	9992 Oct	09	19:35	17°♎36'54	
	9992 Oct	15	11:27	0°♏	
superior conj	9992 Oct	16	16:23	2°♏40'41	1°31'49
minimum elong	9992 Oct	16	14:45	2°♏31'34	1°31'52
max. Earth dist.	9992 Oct	17	07:59	4°♏07'16	1.31727 AU
evening rise	9992 Oct	23	14:25	17°♏44'00	
	9992 Oct	29	17:04	0°♐	
desc. node	9992 Nov	08	06:27	16°♐35'57	
	9992 Nov	17	20:59	0°♑	
evening max el	9992 Nov	23	22:59	6°♑35'36	27°13'15
retrograde	9992 Dec	07	20:06	13°♑47'40	
evening set	9992 Dec	14	19:54	11°♑36'45	
min. Earth dist.	9992 Dec	18	13:33	8°♑51'48	0.61046 AU
inferior conj	9992 Dec	21	15:53	6°♑10'53	-3°21'51
minimum elong	9992 Dec	21	22:31	5°♑56'30	3°19'08
morning rise	9992 Dec	29	03:37	1°♑17'12	
direct	9992 Dec	31	07:46	0°♑57'51	
asc. node	9993 Jan	01	07:02	1°♑01'49	
morning max el	9993 Jan	07	11:04	4°♑32'56	17°55'50
morning set	9993 Jan	23	02:14	29°♑06'06	
	9993 Jan	23	14:01	0°♒	
superior conj	9993 Feb	02	11:52	17°♒47'34	0°13'13
minimum elong	9993 Feb	02	13:00	17°♒52'33	0°13'21
behind sun begin	9993 Feb	02	08:27	17°♒32'44	
behind sun end	9993 Feb	02	17:33	18°♒12'20	
desc. node	9993 Feb	04	05:45	20°♒48'50	
	9993 Feb	09	16:36	0°♓	
max. Earth dist.	9993 Feb	10	00:09	0°♓31'09	1.42662 AU
evening rise	9993 Feb	16	02:36	10°♓21'45	
	9993 Mar	01	00:51	0°♈	
evening max el	9993 Mar	20	14:29	25°♈30'36	22°11'25
	9993 Mar	26	04:27	0°♉	
retrograde	9993 Mar	30	03:30	1°♉09'20	
asc. node	9993 Mar	30	05:26	1°♉09'18	
	9993 Apr	02	18:31	30°℞♈	
evening set	9993 Apr	03	18:31	29°♈15'27	
inferior conj	9993 Apr	09	02:05	22°♈54'35	2°42'18
minimum elong	9993 Apr	09	00:02	23°♈01'44	2°41'42
min. Earth dist.	9993 Apr	09	00:20	23°♈00'42	0.68583 AU
morning rise	9993 Apr	14	05:24	16°♈43'39	
direct	9993 Apr	19	00:01	14°♈42'12	
morning max el	9993 Apr	28	09:55	20°♈13'14	22°10'23
desc. node	9993 May	03	06:17	25°♈39'12	
	9993 May	06	16:34	0°♉	
	9993 May	27	06:02	0°♊	
morning set	9993 May	31	14:40	6°♊56'35	
max. Earth dist.	9993 Jun	05	23:19	15°♊46'06	1.41131 AU
superior conj	9993 Jun	13	17:38	29°♊10'36	-1°40'35
minimum elong	9993 Jun	13	23:50	29°♊38'11	1°40'18
	9993 Jun	14	04:44	0°♋	
evening rise	9993 Jun	24	04:05	18°♋17'51	
asc. node	9993 Jun	26	04:06	22°♋01'04	
	9993 Jun	30	13:41	0°♌	
evening max el	9993 Jul	10	05:38	13°♌56'02	18°16'26
retrograde	9993 Jul	17	11:15	17°♌34'52	
evening set	9993 Jul	19	17:05	17°♌14'33	
inferior conj	9993 Jul	27	00:15	12°♌33'19	0°57'05
minimum elong	9993 Jul	27	02:06	12°♌29'24	0°56'06
desc. node	9993 Jul	30	05:34	9°♌49'45	
min. Earth dist.	9993 Jul	30	09:01	9°♌42'46	0.58935 AU
morning rise	9993 Aug	03	07:47	6°♌58'05	
direct	9993 Aug	09	14:04	5°♌11'51	
morning max el	9993 Aug	23	23:11	12°♌58'46	27°27'10
	9993 Sep	06	10:52	0°♍	
asc. node	9993 Sep	22	04:08	28°♍01'52	
	9993 Sep	23	03:02	0°♎	
morning set	9993 Sep	24	03:24	2°♎07'30	
max. Earth dist.	9993 Sep	30	17:44	16°♎29'48	1.31496 AU
superior conj	9993 Oct	01	04:09	17°♎27'44	1°19'21
minimum elong	9993 Oct	01	02:00	17°♎15'46	1°19'09
	9993 Oct	06	20:32	0°♏	
evening rise	9993 Oct	07	22:05	2°♏17'21	
	9993 Oct	22	16:31	0°♐	
desc. node	9993 Oct	26	03:36	5°♐14'37	
evening max el	9993 Nov	05	22:55	18°♐15'13	26°21'43
retrograde	9993 Nov	19	20:59	25°♐20'39	
evening set	9993 Nov	26	10:43	23°♐35'31	
min. Earth dist.	9993 Nov	30	12:12	21°♐00'43	0.58937 AU
inferior conj	9993 Dec	03	16:15	18°♐37'25	-4°32'21
minimum elong	9993 Dec	04	00:05	18°♐22'36	4°29'54
morning rise	9993 Dec	11	16:00	14°♐05'57	
direct	9993 Dec	13	20:18	13°♐49'36	
asc. node	9993 Dec	19	04:02	15°♐33'22	
morning max el	9993 Dec	21	20:51	17°♐45'19	18°24'19
	9993 Dec	30	15:36	0°♑	
morning set	9994 Jan	06	18:03	13°♑07'25	

superior conj	9994 Jan 15 20:47	0°♒21'39	0°46'37
minimum elong	9994 Jan 15 23:44	0°♒35'11	0°46'33
	9994 Jan 15 16:05	0°♒	
desc. node	9994 Jan 22 02:40	11°♒31'56	
max. Earth dist.	9994 Jan 23 09:16	13°♒44'09	1.40634 AU
evening rise	9994 Jan 27 19:12	21°♒09'59	
	9994 Feb 02 06:45	0°♓	
	9994 Feb 23 04:21	0°♈	
evening max el	9994 Mar 03 05:31	9°♈16'17	23°31'32
retrograde	9994 Mar 13 22:15	15°♈35'17	
asc. node	9994 Mar 17 02:36	14°♈46'43	
evening set	9994 Mar 19 00:51	13°♈27'11	
inferior conj	9994 Mar 24 10:52	6°♈59'43	2°10'12
minimum elong	9994 Mar 24 08:40	7°♈07'16	2°09'33
min. Earth dist.	9994 Mar 23 21:02	7°♈47'12	0.68484 AU
morning rise	9994 Mar 29 16:28	0°♈54'47	
	9994 Mar 31 01:26	30°♓℞	
direct	9994 Apr 02 21:36	29°♓15'17	
	9994 Apr 05 22:12	0°♈	
morning max el	9994 Apr 11 03:21	3°♈58'01	20°48'57
desc. node	9994 Apr 20 03:08	14°♈52'08	
	9994 Apr 30 16:11	0°♉	
morning set	9994 May 11 01:09	15°♉48'33	
max. Earth dist.	9994 May 19 04:28	28°♉44'07	1.43127 AU
	9994 May 19 23:10	0°♊	
superior conj	9994 May 26 00:45	10°♊02'28	-2°03'39
minimum elong	9994 May 26 06:02	10°♊24'39	2°03'44
	9994 Jun 06 12:43	0°♋	
evening rise	9994 Jun 07 00:12	0°♋50'55	
asc. node	9994 Jun 13 01:06	11°♋28'44	
evening max el	9994 Jun 23 17:48	26°♋58'21	18°04'43
	9994 Jun 28 05:27	0°♌	
retrograde	9994 Jun 30 07:50	0°♌21'18	
	9994 Jul 02 10:42	30°℞♋	
evening set	9994 Jul 02 21:27	29°♋50'14	
inferior conj	9994 Jul 09 11:42	24°♋49'20	2°05'08
minimum elong	9994 Jul 09 14:33	24°♋42'20	2°03'56
min. Earth dist.	9994 Jul 12 14:57	21°♋45'48	0.61199 AU
morning rise	9994 Jul 16 05:08	18°♋49'54	
desc. node	9994 Jul 17 02:42	18°♋15'57	
direct	9994 Jul 22 20:32	16°♋35'10	
morning max el	9994 Aug 06 02:45	24°♋35'24	27°55'48
	9994 Aug 11 00:49	0°♌	
	9994 Aug 30 20:09	0°♍	
morning set	9994 Sep 08 06:26	16°♍20'59	
asc. node	9994 Sep 09 00:59	17°♍57'07	
max. Earth dist.	9994 Sep 14 01:39	28°♍43'31	1.31744 AU
	9994 Sep 14 15:36	0°♎	
superior conj	9994 Sep 15 14:39	2°♎06'51	1°01'41
minimum elong	9994 Sep 15 12:27	1°♎54'42	1°01'17
evening rise	9994 Sep 22 08:35	16°♎55'37	
	9994 Sep 28 17:43	0°♏	
desc. node	9994 Oct 13 00:47	22°♏53'14	
evening max el	9994 Oct 18 14:40	29°♏03'50	25°00'42
	9994 Oct 19 14:58	0°♐	
retrograde	9994 Nov 01 11:04	6°♐01'43	
evening set	9994 Nov 07 02:23	4°♐49'55	
min. Earth dist.	9994 Nov 12 02:23	2°♐07'19	0.56971 AU
inferior conj	9994 Nov 14 20:47	0°♐18'19	-5°25'53
minimum elong	9994 Nov 15 02:21	0°♐09'08	5°24'48
	9994 Nov 15 07:54	30°℞♏	
morning rise	9994 Nov 23 04:36	26°♏09'08	
direct	9994 Nov 25 14:28	25°♏52'32	
	9994 Dec 04 13:09	0°♐	
morning max el	9994 Dec 04 21:06	0°♐18'44	19°14'21
asc. node	9994 Dec 06 01:02	1°♐29'40	
morning set	9994 Dec 21 18:51	27°♐32'04	
	9994 Dec 23 00:31	0°♑	
superior conj	9994 Dec 29 23:09	13°♑44'17	1°11'39
minimum elong	9994 Dec 30 02:13	13°♑59'09	1°11'40
max. Earth dist.	9995 Jan 05 15:01	26°♑14'08	1.38437 AU
	9995 Jan 07 17:28	0°♒	
desc. node	9995 Jan 08 23:35	2°♒12'22	
evening rise	9995 Jan 09 09:23	2°♒55'04	
	9995 Jan 26 10:32	0°♓	
evening max el	9995 Feb 13 18:58	23°♓05'08	24°50'16
retrograde	9995 Feb 25 13:08	29°♓56'10	
evening set	9995 Mar 03 03:53	27°♓35'50	
asc. node	9995 Mar 03 23:46	26°♓50'37	
min. Earth dist.	9995 Mar 07 16:18	22°♓30'37	0.67966 AU
inferior conj	9995 Mar 08 17:50	21°♓06'11	1°29'05
minimum elong	9995 Mar 08 15:58	21°♓12'23	1°28'31
morning rise	9995 Mar 14 04:15	15°♓08'36	
direct	9995 Mar 17 20:47	13°♓50'26	
morning max el	9995 Mar 25 04:24	17°♓54'45	19°40'16
	9995 Apr 03 19:37	0°♈	
desc. node	9995 Apr 06 23:58	4°♈35'53	
greatest brilliancy	9995 Apr 06 21:57	4°♈28'29	-0.6m
morning set	9995 Apr 19 23:39	24°♈13'49	
	9995 Apr 23 17:15	0°♉	
max. Earth dist.	9995 May 01 16:25	12°♉28'49	1.44631 AU
superior conj	9995 May 06 07:38	19°♉52'42	-2°12'52
minimum elong	9995 May 06 07:40	19°♉52'52	2°13'09
	9995 May 12 12:45	0°♊	
evening rise	9995 May 20 00:34	12°♊30'56	
asc. node	9995 May 30 22:09	0°♋34'03	
	9995 May 30 13:26	0°♋	
evening max el	9995 Jun 07 07:32	10°♋20'35	18°11'50
retrograde	9995 Jun 13 16:20	13°♋42'07	
evening set	9995 Jun 16 13:46	12°♋57'53	
inferior conj	9995 Jun 22 14:58	7°♋38'48	2°48'38
minimum elong	9995 Jun 22 17:20	7°♋32'15	2°47'45
min. Earth dist.	9995 Jun 25 06:02	4°♋45'07	0.63390 AU
morning rise	9995 Jun 28 19:22	1°♋25'42	
	9995 Jul 01 00:15	30°℞♊	
desc. node	9995 Jul 03 23:48	28°♊58'20	
direct	9995 Jul 05 12:43	28°♊50'32	
	9995 Jul 10 08:57	0°♋	
morning max el	9995 Jul 19 10:59	6°♋53'24	27°46'14
	9995 Aug 06 02:54	0°♌	
morning set	9995 Aug 23 02:30	0°♍11'24	
	9995 Aug 23 00:13	0°♍	
asc. node	9995 Aug 26 21:51	7°♍59'44	
max. Earth dist.	9995 Aug 28 03:58	10°♍38'28	1.32492 AU
superior conj	9995 Aug 30 22:02	16°♍32'46	0°39'08
minimum elong	9995 Aug 30 20:19	16°♍23'28	0°38'40
	9995 Sep 06 02:37	0°♎	
evening rise	9995 Sep 06 20:05	1°♎33'42	
	9995 Sep 22 08:37	0°♏	
desc. node	9995 Sep 29 21:59	9°♏09'04	
evening max el	9995 Sep 30 01:39	9°♏17'58	23°22'35
retrograde	9995 Oct 13 12:20	16°♏00'21	
evening set	9995 Oct 17 18:10	15°♏21'11	
min. Earth dist.	9995 Oct 24 11:28	12°♏12'30	0.55454 AU
inferior conj	9995 Oct 26 05:24	11°♏11'00	-5°42'39
minimum elong	9995 Oct 26 04:03	11°♏13'00	5°42'22
morning rise	9995 Nov 03 15:48	7°♏18'59	
direct	9995 Nov 06 13:45	6°♏58'24	
morning max el	9995 Nov 17 08:37	12°♏03'48	20°27'06

asc. node	9995 Nov 22 22:02	18°♏35'27	
	9995 Nov 29 21:07	0°♐	
morning set	9995 Dec 06 01:31	12°♐11'25	
superior conj	9995 Dec 13 14:19	27°♐42'27	1°28'27
minimum elong	9995 Dec 13 16:35	27°♐53'55	1°28'40
	9995 Dec 14 17:34	0°♑	
max. Earth dist.	9995 Dec 18 22:25	8°♑15'47	1.36322 AU
evening rise	9995 Dec 22 19:07	15°♑30'53	
desc. node	9995 Dec 26 20:33	22°♑46'05	
	9995 Dec 31 02:57	0°♒	
	9996 Jan 21 00:48	0°♓	
evening max el	9996 Jan 27 08:24	6°♓54'09	26°00'23
retrograde	9996 Feb 08 23:07	14°♓05'25	
evening set	9996 Feb 15 01:58	11°♓35'54	
asc. node	9996 Feb 18 20:58	7°♓38'31	
min. Earth dist.	9996 Feb 19 07:49	7°♓05'24	0.67057 AU
inferior conj	9996 Feb 20 21:02	5°♓09'18	0°39'00
minimum elong	9996 Feb 20 20:03	5°♓12'21	0°38'49
	9996 Feb 25 16:13	30°℞♒	
morning rise	9996 Feb 26 14:46	29°♒20'57	
direct	9996 Feb 29 20:00	28°♒21'53	
	9996 Mar 05 04:38	0°♓	
morning max el	9996 Mar 07 12:57	2°♓00'05	18°46'59
desc. node	9996 Mar 23 20:46	24°♓41'28	
	9996 Mar 27 06:37	0°♈	
morning set	9996 Mar 29 09:47	3°♈19'41	
max. Earth dist.	9996 Apr 13 09:49	26°♈46'14	1.45477 AU
superior conj	9996 Apr 14 18:48	28°♈55'29	-2°02'42
minimum elong	9996 Apr 14 11:39	28°♈27'28	2°02'28
	9996 Apr 15 11:14	0°♉	
evening rise	9996 Apr 30 01:25	23°♉11'13	
	9996 May 04 06:55	0°♊	
greatest brilliancy	9996 May 06 11:08	3°♊29'47	-0.9m
asc. node	9996 May 16 19:16	19°♊08'50	
evening max el	9996 May 20 19:49	23°♊54'24	18°37'03
retrograde	9996 May 27 08:41	27°♊28'13	
evening set	9996 May 30 13:59	26°♊29'22	
inferior conj	9996 Jun 05 06:01	20°♊53'31	3°11'58
minimum elong	9996 Jun 05 07:15	20°♊49'43	3°11'26
min. Earth dist.	9996 Jun 07 06:10	18°♊27'24	0.65293 AU
morning rise	9996 Jun 10 23:43	14°♊34'29	
direct	9996 Jun 17 12:35	11°♊50'15	
desc. node	9996 Jun 19 20:51	12°♊08'48	
morning max el	9996 Jun 30 21:24	19°♊43'30	27°03'17
	9996 Jul 09 15:42	0°♋	
	9996 Jul 29 04:18	0°♌	
morning set	9996 Aug 05 12:46	13°♌31'27	
max. Earth dist.	9996 Aug 09 21:29	22°♌09'14	1.33744 AU
asc. node	9996 Aug 12 18:46	28°♌05'31	
	9996 Aug 13 16:40	0°♍	
superior conj	9996 Aug 14 00:11	0°♍39'31	0°12'09
minimum elong	9996 Aug 13 23:34	0°♍36'16	0°11'48
behind sun begin	9996 Aug 13 19:43	0°♍16'01	
behind sun end	9996 Aug 14 03:25	0°♍56'32	
evening rise	9996 Aug 21 06:43	16°♍06'19	
	9996 Aug 28 04:57	0°♎	
evening max el	9996 Sep 10 16:01	19°♎30'44	21°44'20
desc. node	9996 Sep 15 19:12	23°♎33'25	
retrograde	9996 Sep 23 02:35	25°♎41'44	
evening set	9996 Sep 25 22:32	25°♎23'39	
inferior conj	9996 Oct 05 00:01	21°♎26'03	-5°04'56
minimum elong	9996 Oct 04 15:29	21°♎37'58	5°03'08
min. Earth dist.	9996 Oct 04 18:51	21°♎33'16	0.54680 AU
morning rise	9996 Oct 13 09:37	17°♎37'51	
direct	9996 Oct 16 23:59	17°♎09'36	
morning max el	9996 Oct 29 06:51	22°♎58'54	22°00'41
	9996 Nov 04 09:27	0°♏	
asc. node	9996 Nov 08 19:00	6°♏35'24	
morning set	9996 Nov 19 11:44	26°♏58'45	
	9996 Nov 20 22:04	0°♐	
superior conj	9996 Nov 26 14:37	12°♐05'42	1°37'43
minimum elong	9996 Nov 26 15:42	12°♐11'21	1°38'04
max. Earth dist.	9996 Nov 30 12:08	20°♐10'09	1.34483 AU
evening rise	9996 Dec 04 20:45	28°♐48'09	
	9996 Dec 05 11:45	0°♑	
desc. node	9996 Dec 12 17:34	13°♑08'39	
	9996 Dec 23 07:30	0°♒	
evening max el	9997 Jan 08 21:58	20°♒36'02	26°54'29
retrograde	9997 Jan 22 03:21	27°♒56'37	
evening set	9997 Jan 28 17:13	25°♒22'22	
min. Earth dist.	9997 Feb 01 17:18	21°♒26'08	0.65777 AU
inferior conj	9997 Feb 03 18:19	19°♒04'44	-0°19'44
minimum elong	9997 Feb 03 18:52	19°♒03'08	0°19'13
asc. node	9997 Feb 04 18:08	17°♒56'39	
morning rise	9997 Feb 09 21:43	13°♒28'01	
direct	9997 Feb 12 17:10	12°♒44'52	
morning max el	9997 Feb 19 03:15	16°♒09'01	18°10'14
	9997 Mar 01 08:43	0°♓	
morning set	9997 Mar 09 23:18	13°♓49'10	
desc. node	9997 Mar 10 17:36	15°♓03'08	
	9997 Mar 20 01:28	0°♈	
superior conj	9997 Mar 25 01:12	7°♈52'25	-1°33'16
minimum elong	9997 Mar 24 15:46	7°♈15'20	1°32'19
max. Earth dist.	9997 Mar 27 05:51	11°♈18'51	1.45585 AU
	9997 Apr 08 05:38	0°♉	
evening rise	9997 Apr 10 03:47	2°♉59'19	
greatest brilliancy	9997 Apr 22 04:36	21°♉32'14	-0.7m
	9997 Apr 28 00:07	0°♊	
asc. node	9997 May 03 16:25	7°♊03'08	
evening max el	9997 May 04 04:15	7°♊33'41	19°19'23
retrograde	9997 May 11 05:33	11°♊32'18	
evening set	9997 May 14 19:06	10°♊18'09	
inferior conj	9997 May 20 05:22	4°♊27'05	3°19'13
minimum elong	9997 May 20 05:24	4°♊26'59	3°18'50
min. Earth dist.	9997 May 21 14:22	2°♊39'29	0.66790 AU
	9997 May 23 18:41	30°℞♉	
morning rise	9997 May 25 15:17	28°♉07'00	
direct	9997 May 31 19:00	25°♉24'49	
desc. node	9997 Jun 06 17:52	27°♉24'23	
	9997 Jun 10 05:32	0°♊	
morning max el	9997 Jun 13 07:54	2°♊54'32	25°54'57
	9997 Jul 03 20:53	0°♋	
morning set	9997 Jul 19 09:34	26°♋11'33	
	9997 Jul 21 10:40	0°♌	
max. Earth dist.	9997 Jul 23 04:36	3°♌19'21	1.35471 AU
superior conj	9997 Jul 28 18:27	14°♌20'01	-0°18'27
minimum elong	9997 Jul 28 19:34	14°♌25'37	0°18'33
asc. node	9997 Jul 30 15:40	18°♌10'26	
	9997 Aug 05 09:04	0°♍	
evening rise	9997 Aug 05 14:22	0°♍27'17	
	9997 Aug 23 11:49	0°♎	
evening max el	9997 Aug 23 17:39	0°♎14'38	20°19'44
desc. node	9997 Sep 02 16:26	5°♎36'36	
retrograde	9997 Sep 03 15:09	5°♎38'57	
evening set	9997 Sep 05 15:05	5°♎28'50	
inferior conj	9997 Sep 14 17:28	1°♎31'06	-3°35'03
minimum elong	9997 Sep 14 08:18	1°♎44'33	3°32'04
min. Earth dist.	9997 Sep 16 03:45	0°♎40'51	0.54837 AU

	9997 Sep 17 08:16	30°℞♍	
morning rise	9997 Sep 23 00:49	27°♍25'34	
direct	9997 Sep 27 09:12	26°♍44'51	
	9997 Oct 06 18:49	0°♎	
morning max el	9997 Oct 10 20:13	3°♎17'28	23°46'47
asc. node	9997 Oct 26 15:56	25°♎15'51	
	9997 Oct 29 04:41	0°♏	
morning set	9997 Nov 03 23:26	11°♏47'16	
superior conj	9997 Nov 10 20:57	26°♏44'02	1°40'12
minimum elong	9997 Nov 10 20:49	26°♏43'16	1°40'32
	9997 Nov 12 09:17	0°♐	
max. Earth dist.	9997 Nov 13 09:40	2°♐10'18	1.33045 AU
evening rise	9997 Nov 18 10:31	12°♐36'13	
	9997 Nov 27 17:24	0°♑	
desc. node	9997 Nov 29 14:38	3°♑13'26	
	9997 Dec 18 14:12	0°♒	
evening max el	9997 Dec 22 10:29	3°♒58'42	27°25'35
retrograde	9998 Jan 05 01:18	11°♒20'27	
evening set	9998 Jan 11 23:16	8°♒48'03	
min. Earth dist.	9998 Jan 15 18:35	5°♒24'05	0.64145 AU
inferior conj	9998 Jan 18 07:07	2°♒45'38	-1°26'28
minimum elong	9998 Jan 18 09:50	2°♒38'31	1°24'58
	9998 Jan 21 01:51	30°℞♑	
asc. node	9998 Jan 22 15:17	28°♑43'00	
morning rise	9998 Jan 24 22:15	27°♑23'22	
direct	9998 Jan 27 09:42	26°♑52'28	
	9998 Feb 02 14:57	0°♒	
morning max el	9998 Feb 02 20:32	0°♒13'30	17°50'34
morning set	9998 Feb 19 17:12	25°♒41'27	
	9998 Feb 22 06:21	0°♓	
desc. node	9998 Feb 25 14:25	5°♓35'40	
superior conj	9998 Mar 04 21:18	17°♓33'00	-0°52'13
minimum elong	9998 Mar 04 15:33	17°♓09'48	0°51'17
max. Earth dist.	9998 Mar 10 01:07	25°♓47'37	1.44947 AU
	9998 Mar 12 17:14	0°♈	
evening rise	9998 Mar 20 16:28	12°♈20'54	
	9998 Apr 01 08:53	0°♉	
evening max el	9998 Apr 17 07:22	21°♉14'58	20°17'08
asc. node	9998 Apr 20 13:33	24°♉04'40	
retrograde	9998 Apr 25 04:14	25°♉48'39	
evening set	9998 Apr 29 02:47	24°♉19'01	
inferior conj	9998 May 04 10:11	18°♉14'33	3°13'25
minimum elong	9998 May 04 09:10	18°♉18'01	3°13'01
min. Earth dist.	9998 May 05 04:56	17°♉10'33	0.67838 AU
morning rise	9998 May 09 15:17	11°♉56'28	
direct	9998 May 15 07:03	9°♉25'22	
desc. node	9998 May 24 14:50	14°♉15'09	
morning max el	9998 May 26 17:34	16°♉16'49	24°30'51
	9998 Jun 07 01:44	0°♊	
	9998 Jun 26 19:59	0°♋	
morning set	9998 Jul 01 12:18	7°♋59'55	
max. Earth dist.	9998 Jul 05 03:23	14°♋27'30	1.37569 AU
superior conj	9998 Jul 12 01:39	27°♋26'23	-0°51'10
minimum elong	9998 Jul 12 04:58	27°♋42'25	0°50'58
	9998 Jul 13 09:16	0°♌	
asc. node	9998 Jul 17 12:36	8°♌10'50	
evening rise	9998 Jul 20 16:34	14°♌29'57	
	9998 Jul 28 21:16	0°♍	
evening max el	9998 Aug 06 09:01	11°♍45'05	19°15'19
retrograde	9998 Aug 15 14:11	16°♍19'37	
evening set	9998 Aug 17 10:32	16°♍09'21	
desc. node	9998 Aug 20 13:38	15°♍09'27	
inferior conj	9998 Aug 25 23:58	11°♍59'32	-1°41'00
minimum elong	9998 Aug 25 19:30	12°♍06'58	1°39'25
min. Earth dist.	9998 Aug 28 16:31	10°♍12'38	0.55918 AU
morning rise	9998 Sep 03 01:37	7°♍19'56	
direct	9998 Sep 08 05:32	6°♍18'43	
morning max el	9998 Sep 22 08:19	13°♍28'11	25°30'03
	9998 Oct 05 07:32	0°♎	
asc. node	9998 Oct 13 12:50	14°♎26'52	
morning set	9998 Oct 19 10:54	26°♎32'19	
	9998 Oct 21 01:26	0°♏	
superior conj	9998 Oct 26 06:57	11°♏30'33	1°36'32
minimum elong	9998 Oct 26 05:46	11°♏24'03	1°36'43
max. Earth dist.	9998 Oct 27 14:08	14°♏22'12	1.32069 AU
evening rise	9998 Nov 02 09:15	26°♏47'23	
	9998 Nov 03 22:50	0°♐	
desc. node	9998 Nov 16 11:43	22°♐52'59	
	9998 Nov 21 02:13	0°♑	
evening max el	9998 Dec 04 20:09	16°♑50'16	27°27'19
retrograde	9998 Dec 18 16:12	24°♑07'23	
evening set	9998 Dec 25 17:13	21°♑45'44	
min. Earth dist.	9998 Dec 29 10:05	18°♑48'56	0.62226 AU
inferior conj	9999 Jan 01 08:28	16°♑04'42	-2°39'08
minimum elong	9999 Jan 01 13:43	15°♑52'25	2°36'42
morning rise	9999 Jan 08 12:38	10°♑59'49	
asc. node	9999 Jan 09 12:23	10°♑44'28	
direct	9999 Jan 10 18:26	10°♑37'23	
morning max el	9999 Jan 17 13:38	14°♑05'01	17°48'34
	9999 Jan 28 12:17	0°♒	
morning set	9999 Feb 02 09:42	8°♒38'04	
desc. node	9999 Feb 12 11:15	26°♒14'58	
superior conj	9999 Feb 13 17:20	28°♒22'40	-0°09'26
minimum elong	9999 Feb 13 16:27	28°♒18'55	0°09'02
behind sun begin	9999 Feb 13 09:06	27°♒47'46	
behind sun end	9999 Feb 13 23:49	28°♒50'00	
	9999 Feb 14 16:27	0°♓	
max. Earth dist.	9999 Feb 20 17:11	9°♓56'19	1.43646 AU
evening rise	9999 Feb 28 06:27	21°♓53'59	
	9999 Mar 05 13:15	0°♈	
	9999 Mar 26 19:24	0°♉	
evening max el	9999 Mar 31 04:54	4°♉57'16	21°27'17
asc. node	9999 Apr 07 10:42	9°♉58'21	
retrograde	9999 Apr 09 02:34	10°♉12'01	
evening set	9999 Apr 13 11:10	8°♉27'03	
inferior conj	9999 Apr 18 18:06	2°♉11'24	2°56'33
minimum elong	9999 Apr 18 16:19	2°♉17'36	2°56'02
min. Earth dist.	9999 Apr 18 23:38	1°♉52'08	0.68437 AU
	9999 Apr 20 08:17	30°℞♈	
morning rise	9999 Apr 23 21:15	25°♈57'17	
direct	9999 Apr 28 23:45	23°♈43'43	
morning max el	9999 May 09 03:32	29°♈45'26	23°00'57
	9999 May 09 09:17	0°♉	
desc. node	9999 May 11 11:44	2°♉15'08	
	9999 May 31 20:50	0°♊	
morning set	9999 Jun 12 15:30	18°♊41'44	
max. Earth dist.	9999 Jun 16 23:49	26°♊02'31	1.39848 AU
	9999 Jun 19 06:31	0°♋	
superior conj	9999 Jun 24 17:42	9°♋48'19	-1°23'34
minimum elong	9999 Jun 24 23:09	10°♋13'22	1°23'14
evening rise	9999 Jul 04 10:12	28°♋05'14	
asc. node	9999 Jul 04 09:31	28°♋01'58	
	9999 Jul 05 10:14	0°♌	
evening max el	9999 Jul 20 11:36	23°♌58'42	18°32'03
retrograde	9999 Jul 28 07:13	27°♌53'09	
evening set	9999 Jul 30 08:50	27°♌37'37	
inferior conj	9999 Aug 07 03:07	23°♌08'37	0°05'52
minimum elong	9999 Aug 07 03:20	23°♌08'12	0°05'31

transit middle	9999 Aug 07 03:20	23°♌08'12	0°05'31
transit begin	9999 Aug 06 23:57	23°♌14'46	
transit end	9999 Aug 07 06:43	23°♌01'38	
desc. node	9999 Aug 07 10:50	22°♌53'36	
min. Earth dist.	9999 Aug 10 10:24	20°♌35'44	0.57714 AU
morning rise	9999 Aug 14 18:18	17°♌52'05	
direct	9999 Aug 20 16:37	16°♌22'52	
morning max el	9999 Sep 04 00:56	23°♌58'47	26°53'26
	9999 Sep 09 12:17	0°♍	
	9999 Sep 28 09:15	0°♎	
asc. node	9999 Sep 30 09:41	3°♎59'55	
morning set	9999 Oct 03 20:30	11°♎08'59	
superior conj	9999 Oct 10 18:35	26°♎18'46	1°27'11
minimum elong	9999 Oct 10 16:40	26°♎08'09	1°27'07
max. Earth dist.	9999 Oct 10 22:50	26°♎42'27	1.31568 AU
	9999 Oct 12 10:24	0°♏	
evening rise	9999 Oct 17 14:19	11°♏14'18	
	9999 Oct 27 03:42	0°♐	
desc. node	9999 Nov 03 08:52	11°♐57'26	
evening max el	9999 Nov 17 00:32	28°♐59'18	26°55'30
	9999 Nov 18 03:04	0°♑	
retrograde	9999 Nov 30 22:43	6°♑08'48	
evening set	9999 Dec 07 19:17	4°♑07'58	
min. Earth dist.	9999 Dec 11 15:03	1°♑28'54	0.60138 AU
	9999 Dec 13 10:52	30°℞♐	
inferior conj	9999 Dec 14 19:00	28°♐53'30	-3°52'55
minimum elong	9999 Dec 15 02:24	28°♐38'18	3°50'09
morning rise	9999 Dec 22 12:08	24°♐08'50	
direct	9999 Dec 24 15:38	23°♐51'15	
asc. node	9999 Dec 27 09:28	24°♐21'20	
morning max el	10000 Jan 01 03:07	27°♐34'26	18°05'26
	10000 Jan 03 07:52	0°♑	
morning set	10000 Jan 16 18:34	22°♑20'31	
	10000 Jan 20 21:15	0°♒	
superior conj	10000 Jan 26 13:56	10°♒21'46	0°28'22
minimum elong	10000 Jan 26 16:05	10°♒31'23	0°28'22
desc. node	10000 Jan 30 08:06	16°♒57'41	
max. Earth dist.	10000 Feb 03 04:56	23°♒32'41	1.41832 AU
	10000 Feb 07 02:54	0°♓	
evening rise	10000 Feb 08 11:20	2°♓10'59	
	10000 Feb 26 23:01	0°♈	
evening max el	10000 Mar 12 21:58	18°♈42'11	22°45'21
retrograde	10000 Mar 22 22:54	24°♈38'31	
asc. node	10000 Mar 24 07:53	24°♈29'17	
evening set	10000 Mar 27 18:41	22°♈38'39	
inferior conj	10000 Apr 02 03:07	16°♈14'43	2°29'50
minimum elong	10000 Apr 02 00:57	16°♈22'15	2°29'12
min. Earth dist.	10000 Apr 01 20:15	16°♈38'34	0.68593 AU
morning rise	10000 Apr 07 07:04	10°♈06'03	
direct	10000 Apr 11 19:59	8°♈13'35	
morning max el	10000 Apr 20 17:11	13°♈23'05	21°34'26
desc. node	10000 Apr 27 08:36	21°♈05'38	
	10000 May 03 22:31	0°♉	
morning set	10000 May 22 15:55	28°♉10'11	
	10000 May 23 19:29	0°♊	
max. Earth dist.	10000 May 29 01:01	8°♊29'42	1.42035 AU
superior conj	10000 Jun 05 14:09	21°♊16'11	-1°51'37
minimum elong	10000 Jun 05 20:23	21°♊43'17	1°51'28
	10000 Jun 10 12:57	0°♋	
evening rise	10000 Jun 16 15:29	11°♋04'11	
asc. node	10000 Jun 20 06:29	17°♋39'43	
	10000 Jun 27 13:35	0°♌	
evening max el	10000 Jul 02 21:25	6°♌46'19	18°09'04
retrograde	10000 Jul 09 18:48	10°♌16'06	
evening set	10000 Jul 12 04:05	9°♌51'25	
inferior conj	10000 Jul 19 03:38	5°♌01'36	1°29'11
minimum elong	10000 Jul 19 06:09	4°♌55'53	1°28'00
min. Earth dist.	10000 Jul 22 11:12	2°♌02'46	0.59904 AU
desc. node	10000 Jul 24 07:59	0°♌32'11	
	10000 Jul 25 01:43	30°℞♋	
morning rise	10000 Jul 26 05:13	29°♋15'04	
direct	10000 Aug 01 16:29	27°♋16'01	
	10000 Aug 09 18:11	0°♌	
morning max el	10000 Aug 16 00:29	5°♌08'51	27°44'00
	10000 Sep 03 12:03	0°♍	
asc. node	10000 Sep 16 06:32	23°♍48'33	
morning set	10000 Sep 17 02:30	25°♍32'25	
	10000 Sep 19 05:00	0°♎	
max. Earth dist.	10000 Sep 23 08:17	9°♎02'17	1.31546 AU
superior conj	10000 Sep 24 06:02	11°♎02'48	1°12'28
minimum elong	10000 Sep 24 03:47	10°♎50'24	1°12'10
evening rise	10000 Sep 30 23:27	25°♎50'24	
	10000 Oct 02 22:36	0°♏	
desc. node	10000 Oct 20 06:02	0°♐12'35	
	10000 Oct 20 02:22	0°♐	
evening max el	10000 Oct 28 21:12	10°♐17'07	25°50'23
retrograde	10000 Nov 11 18:55	17°♐18'49	
evening set	10000 Nov 18 00:42	15°♐47'35	
min. Earth dist.	10000 Nov 22 09:48	13°♐11'46	0.58064 AU
inferior conj	10000 Nov 25 11:13	11°♐01'31	-4°58'14
minimum elong	10000 Nov 25 18:39	10°♐48'16	4°56'17
morning rise	10000 Dec 03 14:59	6°♐39'23	
direct	10000 Dec 05 21:01	6°♐23'14	
asc. node	10000 Dec 13 06:30	9°♐30'20	
morning max el	10000 Dec 14 09:13	10°♐30'52	18°42'52
	10000 Dec 27 04:59	0°♑	
morning set	10000 Dec 30 14:40	6°♑33'03	
superior conj	10001 Jan 08 06:51	23°♑17'43	0°58'16
minimum elong	10001 Jan 08 10:01	23°♑32'34	0°58'13
	10001 Jan 11 21:47	0°♒	
max. Earth dist.	10001 Jan 15 12:39	6°♒28'13	1.39706 AU
desc. node	10001 Jan 16 04:59	7°♒39'40	
evening rise	10001 Jan 19 13:11	13°♒23'28	
	10001 Jan 29 21:28	0°♓	
	10001 Feb 21 03:02	0°♈	
evening max el	10001 Feb 23 12:14	2°♈29'32	24°05'39
retrograde	10001 Mar 06 15:59	9°♈02'40	
asc. node	10001 Mar 11 05:05	7°♈26'02	
evening set	10001 Mar 11 23:48	6°♈49'05	
min. Earth dist.	10001 Mar 16 16:32	1°♈24'04	0.68318 AU
inferior conj	10001 Mar 17 11:20	0°♈20'24	1°53'53
minimum elong	10001 Mar 17 09:13	0°♈27'35	1°53'14
	10001 Mar 17 17:22	30°℞♓	
morning rise	10001 Mar 22 18:42	24°♓18'32	
direct	10001 Mar 26 18:27	22°♓48'09	
morning max el	10001 Apr 03 13:42	27°♓12'33	20°18'01
	10001 Apr 06 03:49	0°♈	
desc. node	10001 Apr 14 05:27	10°♈32'26	
	10001 Apr 27 09:36	0°♉	
morning set	10001 May 01 18:49	6°♉43'21	
max. Earth dist.	10001 May 11 09:45	21°♉51'12	1.43844 AU
	10001 May 16 10:19	0°♊	
superior conj	10001 May 17 11:00	1°♊41'30	-2°09'38
minimum elong	10001 May 17 14:35	1°♊56'21	2°09'52
evening rise	10001 May 30 03:48	23°♊16'05	
	10001 Jun 03 00:55	0°♋	
asc. node	10001 Jun 07 03:32	6°♋58'46	
evening max el	10001 Jun 16 10:40	19°♋58'18	18°05'25

retrograde	10001 Jun	22	21:10	23°♋18'55	
evening set	10001 Jun	25	14:11	22°♋42'21	
inferior conj	10001 Jul	01	22:22	17°♋33'11	2°26'21
minimum elong	10001 Jul	02	01:08	17°♋26'00	2°25'15
min. Earth dist.	10001 Jul	04	20:49	14°♋31'37	0.62157 AU
morning rise	10001 Jul	08	10:02	11°♋26'50	
desc. node	10001 Jul	11	05:06	9°♋51'12	
direct	10001 Jul	15	03:01	9°♋02'34	
morning max el	10001 Jul	29	06:28	17°♋04'29	27°56'17
	10001 Aug	08	23:38	0°♌	
	10001 Aug	27	05:46	0°♍	
morning set	10001 Sep	01	02:57	9°♍37'24	
asc. node	10001 Sep	03	03:23	13°♍47'38	
max. Earth dist.	10001 Sep	06	14:37	21°♍11'04	1.32006 AU
superior conj	10001 Sep	08	15:30	25°♍37'22	0°52'42
minimum elong	10001 Sep	08	13:25	25°♍26'02	0°52'15
	10001 Sep	10	15:18	0°♎	
evening rise	10001 Sep	15	10:41	10°♎29'56	
	10001 Sep	25	07:23	0°♏	
desc. node	10001 Oct	07	03:14	17°♏19'28	
evening max el	10001 Oct	10	10:12	20°♏48'02	24°19'59
retrograde	10001 Oct	24	03:24	27°♏40'36	
evening set	10001 Oct	29	05:49	26°♏43'10	
min. Earth dist.	10001 Nov	03	21:01	23°♏51'52	0.56257 AU
inferior conj	10001 Nov	06	07:03	22°♏21'44	-5°38'45
minimum elong	10001 Nov	06	10:10	22°♏16'52	5°38'14
morning rise	10001 Nov	14	16:39	18°♏21'14	
direct	10001 Nov	17	07:08	18°♏03'18	
morning max el	10001 Nov	27	04:23	22°♏44'40	19°42'34
asc. node	10001 Nov	30	03:31	25°♏58'15	
	10001 Dec	03	03:11	0°♐	
morning set	10001 Dec	14	18:20	21°♐05'08	
	10001 Dec	19	03:53	0°♑	
superior conj	10001 Dec	22	15:15	6°♑57'10	1°19'43
minimum elong	10001 Dec	22	18:03	7°♑11'01	1°19'51
max. Earth dist.	10001 Dec	28	18:48	18°♑45'02	1.37515 AU
evening rise	10002 Jan	01	12:06	25°♑30'48	
desc. node	10002 Jan	03	01:56	28°♑17'30	
	10002 Jan	04	01:33	0°♒	
	10002 Jan	23	11:40	0°♓	
evening max el	10002 Feb	06	01:27	16°♓18'13	25°21'31
retrograde	10002 Feb	18	04:50	23°♓19'13	
evening set	10002 Feb	24	00:57	20°♓54'12	
asc. node	10002 Feb	26	02:18	18°♓53'15	
min. Earth dist.	10002 Feb	28	10:21	16°♓04'05	0.67630 AU
inferior conj	10002 Mar	01	16:56	14°♓25'14	1°08'55
minimum elong	10002 Mar	01	15:22	14°♓30'18	1°08'28
morning rise	10002 Mar	07	06:12	8°♓31'37	
direct	10002 Mar	10	17:45	7°♓22'01	
morning max el	10002 Mar	17	18:10	11°♓13'29	19°15'40
greatest brilliancy	10002 Mar	30	16:38	28°♓19'40	-0.7m
	10002 Mar	31	19:25	0°♈	
desc. node	10002 Apr	01	02:16	0°♈25'49	
morning set	10002 Apr	10	19:24	15°♈17'36	
	10002 Apr	20	06:42	0°♉	
max. Earth dist.	10002 Apr	24	00:32	5°♉52'15	1.45074 AU
superior conj	10002 Apr	27	08:13	11°♉07'11	-2°11'05
minimum elong	10002 Apr	27	05:04	10°♉54'41	2°11'16
	10002 May	09	00:44	0°♊	
evening rise	10002 May	11	18:28	4°♊30'51	
asc. node	10002 May	25	00:37	25°♊52'01	
	10002 May	28	00:23	0°♋	
evening max el	10002 May	31	00:03	3°♋25'44	18°20'22
retrograde	10002 Jun	06	09:39	6°♋51'17	
evening set	10002 Jun	09	10:18	6°♋01'03	
inferior conj	10002 Jun	15	07:08	0°♋34'28	3°00'45
minimum elong	10002 Jun	15	09:04	0°♋28'53	3°00'01
	10002 Jun	15	19:00	30°℞♊	
min. Earth dist.	10002 Jun	17	15:56	27°♊50'44	0.64235 AU
morning rise	10002 Jun	21	06:37	24°♊17'47	
direct	10002 Jun	27	22:33	21°♊37'29	
desc. node	10002 Jun	28	02:12	21°♊37'33	
morning max el	10002 Jul	11	16:13	29°♊38'27	27°31'45
	10002 Jul	12	00:42	0°♋	
	10002 Aug	02	22:30	0°♌	
morning set	10002 Aug	15	19:16	23°♌16'16	
	10002 Aug	19	03:30	0°♍	
max. Earth dist.	10002 Aug	20	13:42	2°♍56'55	1.32963 AU
asc. node	10002 Aug	21	00:15	3°♍51'57	
superior conj	10002 Aug	23	20:56	9°♍55'47	0°28'12
minimum elong	10002 Aug	23	19:36	9°♍48'40	0°27'45
evening rise	10002 Aug	30	22:04	25°♍06'20	
	10002 Sep	02	05:58	0°♎	
	10002 Sep	20	22:55	0°♏	
evening max el	10002 Sep	21	21:13	0°♏56'10	22°39'44
desc. node	10002 Sep	24	00:27	2°♏51'43	
retrograde	10002 Oct	04	23:52	7°♏28'16	
evening set	10002 Oct	08	14:17	6°♏59'48	
min. Earth dist.	10002 Oct	16	04:59	3°♏34'58	0.55020 AU
inferior conj	10002 Oct	17	08:31	2°♏55'45	-5°33'50
minimum elong	10002 Oct	17	03:40	3°♏02'40	5°33'09
	10002 Oct	23	02:12	30°℞♎	
morning rise	10002 Oct	25	18:51	29°♎07'45	
direct	10002 Oct	28	23:10	28°♎44'35	
	10002 Nov	03	12:17	0°♏	
morning max el	10002 Nov	09	10:11	4°♏08'17	21°04'43
asc. node	10002 Nov	17	00:30	13°♏28'31	
	10002 Nov	26	06:39	0°♐	
morning set	10002 Nov	29	02:46	5°♐48'16	
superior conj	10002 Dec	06	10:44	21°♐07'11	1°33'14
minimum elong	10002 Dec	06	12:31	21°♐16'21	1°33'32
	10002 Dec	10	20:07	0°♑	
max. Earth dist.	10002 Dec	11	04:04	0°♑39'12	1.35493 AU
evening rise	10002 Dec	15	05:03	8°♑25'04	
desc. node	10002 Dec	20	22:56	18°♑46'48	
	10002 Dec	27	17:17	0°♒	
evening max el	10003 Jan	19	14:45	0°♓04'17	26°25'46
	10003 Jan	19	12:59	0°♓	
retrograde	10003 Feb	01	12:39	7°♓21'40	
evening set	10003 Feb	07	20:24	4°♓49'14	
min. Earth dist.	10003 Feb	11	23:35	0°♓33'31	0.66551 AU
	10003 Feb	12	10:46	30°℞♒	
asc. node	10003 Feb	12	23:30	29°♒21'26	
inferior conj	10003 Feb	13	17:54	28°♒25'26	0°15'07
minimum elong	10003 Feb	13	17:30	28°♒26'40	0°15'11
transit middle	10003 Feb	13	17:30	28°♒26'40	0°15'11
transit begin	10003 Feb	13	16:33	28°♒29'32	
transit end	10003 Feb	13	18:26	28°♒23'49	
morning rise	10003 Feb	19	15:30	22°♒41'53	
direct	10003 Feb	22	16:15	21°♒50'13	
morning max el	10003 Mar	01	05:31	25°♒21'18	18°29'18
	10003 Mar	05	05:41	0°♓	
desc. node	10003 Mar	18	23:05	20°♓38'43	
morning set	10003 Mar	21	16:09	24°♓56'11	
	10003 Mar	24	21:00	0°♈	
superior conj	10003 Apr	06	15:05	20°♈01'27	-1°52'16
minimum elong	10003 Apr	06	06:05	19°♈26'12	1°51'41
max. Earth dist.	10003 Apr	06	18:52	20°♈16'12	1.45604 AU

	10003 Apr 13 00:03	0°♉	
evening rise	10003 Apr 22 09:13	14°♉46'46	
greatest brilliancy	10003 May 01 14:02	29°♉18'07	-0.8m
	10003 May 02 00:47	0°♊	
asc. node	10003 May 11 21:45	14°♊11'08	
evening max el	10003 May 14 10:55	17°♊02'25	18°53'06
retrograde	10003 May 21 04:18	20°♊45'40	
evening set	10003 May 24 12:56	19°♊40'34	
inferior conj	10003 May 30 02:08	13°♊58'13	3°16'47
minimum elong	10003 May 30 02:51	13°♊55'57	3°16'21
min. Earth dist.	10003 May 31 19:52	11°♊47'10	0.65975 AU
morning rise	10003 Jun 04 16:08	7°♊38'04	
direct	10003 Jun 11 01:33	4°♊53'08	
desc. node	10003 Jun 14 23:14	5°♊44'46	
morning max el	10003 Jun 24 02:55	12°♊39'08	26°36'48
	10003 Jul 08 01:21	0°♋	
	10003 Jul 26 14:03	0°♌	
morning set	10003 Jul 30 00:21	6°♌21'02	
max. Earth dist.	10003 Aug 03 02:35	14°♌16'40	1.34421 AU
superior conj	10003 Aug 07 20:05	23°♌52'25	-0°00'27
minimum elong	10003 Aug 07 20:07	23°♌52'38	0°00'42
behind sun begin	10003 Aug 07 14:19	23°♌22'34	
behind sun end	10003 Aug 08 01:56	24°♌22'44	
asc. node	10003 Aug 07 21:08	23°♌57'55	
	10003 Aug 10 18:27	0°♍	
evening rise	10003 Aug 15 07:41	9°♍34'36	
	10003 Aug 26 01:17	0°♎	
evening max el	10003 Sep 03 15:46	11°♎19'27	21°06'08
desc. node	10003 Sep 10 21:40	16°♎19'13	
retrograde	10003 Sep 15 11:58	17°♎11'45	
evening set	10003 Sep 17 20:57	16°♎58'32	
inferior conj	10003 Sep 27 00:51	13°♎02'47	-4°31'57
minimum elong	10003 Sep 26 15:06	13°♎16'33	4°29'22
min. Earth dist.	10003 Sep 27 13:06	12°♎45'30	0.54632 AU
morning rise	10003 Oct 05 09:39	9°♎09'19	
direct	10003 Oct 09 07:25	8°♎36'28	
morning max el	10003 Oct 22 03:54	14°♎45'25	22°44'56
	10003 Nov 02 20:05	0°♏	
asc. node	10003 Nov 03 21:26	1°♏46'55	
morning set	10003 Nov 13 13:47	20°♏36'18	
	10003 Nov 17 23:00	0°♐	
superior conj	10003 Nov 20 13:55	5°♐37'41	1°39'33
minimum elong	10003 Nov 20 14:27	5°♐40'36	1°39'55
max. Earth dist.	10003 Nov 23 20:47	12°♐33'22	1.33819 AU
evening rise	10003 Nov 28 12:16	21°♐56'37	
	10003 Dec 02 17:50	0°♑	
desc. node	10003 Dec 07 19:58	9°♑02'24	
	10003 Dec 21 12:20	0°♒	
evening max el	10004 Jan 02 04:07	13°♒39'33	27°11'02
retrograde	10004 Jan 15 14:29	21°♒01'55	
evening set	10004 Jan 22 08:03	18°♒27'43	
min. Earth dist.	10004 Jan 26 05:59	14°♒45'19	0.65114 AU
inferior conj	10004 Jan 28 11:55	12°♒15'31	-0°47'11
minimum elong	10004 Jan 28 13:19	12°♒11'37	0°46'16
asc. node	10004 Jan 30 20:40	9°♒44'15	
morning rise	10004 Feb 03 20:04	6°♒44'23	
direct	10004 Feb 06 11:47	6°♒06'58	
morning max el	10004 Feb 12 21:24	9°♒28'56	17°59'42
	10004 Feb 27 02:16	0°♓	
morning set	10004 Mar 01 18:13	6°♓02'16	
desc. node	10004 Mar 04 19:54	11°♓05'16	
superior conj	10004 Mar 16 01:19	29°♓11'34	-1°16'40
minimum elong	10004 Mar 15 16:58	28°♓38'28	1°15'36
	10004 Mar 16 13:33	0°♈	
max. Earth dist.	10004 Mar 19 14:34	4°♈47'49	1.45397 AU
evening rise	10004 Apr 01 04:04	24°♈18'37	
	10004 Apr 04 20:54	0°♉	
greatest brilliancy	10004 Apr 15 01:17	15°♉24'33	-0.7m
	10004 Apr 26 00:46	0°♊	
evening max el	10004 Apr 26 17:15	0°♊42'51	19°42'19
asc. node	10004 Apr 27 18:54	1°♊44'36	
retrograde	10004 May 04 02:05	4°♊55'05	
evening set	10004 May 07 19:21	3°♊34'27	
	10004 May 11 08:16	30°℞♉	
inferior conj	10004 May 13 04:05	27°♉37'44	3°18'10
minimum elong	10004 May 13 03:38	27°♉39'12	3°17'49
min. Earth dist.	10004 May 14 06:59	26°♉08'07	0.67293 AU
morning rise	10004 May 18 11:36	21°♉18'19	
direct	10004 May 24 10:38	18°♉39'36	
desc. node	10004 May 31 20:13	21°♉43'49	
morning max el	10004 Jun 05 12:47	25°♉54'37	25°20'28
	10004 Jun 09 06:43	0°♊	
	10004 Jun 30 14:26	0°♋	
morning set	10004 Jul 11 14:02	18°♋40'19	
max. Earth dist.	10004 Jul 15 05:14	25°♋20'48	1.36326 AU
	10004 Jul 17 16:07	0°♌	
superior conj	10004 Jul 21 10:05	7°♌19'30	-0°32'10
minimum elong	10004 Jul 21 12:05	7°♌29'28	0°32'08
asc. node	10004 Jul 24 18:03	14°♌01'20	
evening rise	10004 Jul 29 13:18	23°♌48'21	
	10004 Aug 01 15:26	0°♍	
evening max el	10004 Aug 15 23:27	22°♍23'15	19°49'48
retrograde	10004 Aug 26 03:10	27°♍25'14	
desc. node	10004 Aug 27 18:51	27°♍17'48	
evening set	10004 Aug 28 00:09	27°♍15'43	
inferior conj	10004 Sep 05 22:23	23°♍14'23	-2°47'34
minimum elong	10004 Sep 05 14:53	23°♍25'53	2°44'56
min. Earth dist.	10004 Sep 07 23:21	21°♍59'26	0.55197 AU
morning rise	10004 Sep 14 03:54	18°♍55'55	
direct	10004 Sep 18 20:53	18°♍07'18	
morning max el	10004 Oct 02 15:34	24°♍56'24	24°31'59
	10004 Oct 07 08:24	0°♎	
asc. node	10004 Oct 20 18:19	20°♎41'50	
	10004 Oct 25 11:48	0°♏	
morning set	10004 Oct 28 01:36	5°♏24'22	
superior conj	10004 Nov 03 22:05	20°♏20'42	1°39'22
minimum elong	10004 Nov 03 21:28	20°♏17'21	1°39'39
max. Earth dist.	10004 Nov 05 21:45	24°♏39'59	1.32578 AU
	10004 Nov 08 09:36	0°♐	
evening rise	10004 Nov 11 06:16	5°♐56'20	
desc. node	10004 Nov 23 17:01	28°♐57'59	
	10004 Nov 24 08:03	0°♑	
evening max el	10004 Dec 14 15:59	26°♑52'01	27°30'16
	10004 Dec 18 07:31	0°♒	
retrograde	10004 Dec 28 09:23	4°♒11'31	
evening set	10005 Jan 04 09:21	1°♒42'55	
	10005 Jan 06 13:03	30°℞♑	
min. Earth dist.	10005 Jan 08 03:24	28°♑31'04	0.63361 AU
inferior conj	10005 Jan 10 20:17	25°♑48'57	-1°56'44
minimum elong	10005 Jan 11 00:03	25°♑39'30	1°54'49
asc. node	10005 Jan 16 17:46	20°♑58'59	
morning rise	10005 Jan 17 16:49	20°♑33'21	
direct	10005 Jan 20 01:36	20°♑06'24	
morning max el	10005 Jan 26 14:57	23°♑29'04	17°47'26
	10005 Jan 31 19:53	0°♒	
morning set	10005 Feb 11 22:37	18°♒25'09	
	10005 Feb 18 16:43	0°♓	
desc. node	10005 Feb 19 16:44	1°♓41'24	

superior conj	10005 Feb	24	06:59	9°♓19'59	-0°33'45
minimum elong	10005 Feb	24	03:25	9°♓05'19	0°33'03
max. Earth dist.	10005 Mar	02	09:08	19°♓11'29	1.44477 AU
	10005 Mar	09	06:12	0°♈	
evening rise	10005 Mar	11	15:28	3°♈40'55	
	10005 Mar	29	08:35	0°♉	
evening max el	10005 Apr	09	18:01	14°♉24'37	20°45'41
asc. node	10005 Apr	14	16:02	18°♉19'04	
retrograde	10005 Apr	18	00:42	19°♉14'44	
evening set	10005 Apr	22	03:31	17°♉38'23	
inferior conj	10005 Apr	27	10:26	11°♉28'59	3°07'29
minimum elong	10005 Apr	27	09:04	11°♉33'44	3°07'03
min. Earth dist.	10005 Apr	27	23:25	10°♉44'11	0.68155 AU
morning rise	10005 May	02	14:24	5°♉12'39	
direct	10005 May	08	00:41	2°♉48'27	
desc. node	10005 May	18	17:11	9°♉06'20	
morning max el	10005 May	18	22:09	9°♉18'51	23°52'43
	10005 Jun	04	05:18	0°♊	
morning set	10005 Jun	23	07:17	0°♋01'00	
	10005 Jun	23	07:03	0°♋	
max. Earth dist.	10005 Jun	27	02:22	6°♋37'20	1.38534 AU
superior conj	10005 Jul	04	11:19	20°♋07'51	-1°05'09
minimum elong	10005 Jul	04	15:37	20°♋28'08	1°04'52
	10005 Jul	09	14:20	0°♌	
asc. node	10005 Jul	11	14:58	3°♌58'08	
evening rise	10005 Jul	13	12:14	7°♌40'10	
	10005 Jul	26	06:13	0°♍	
evening max el	10005 Jul	29	19:58	4°♍12'24	18°54'22
retrograde	10005 Aug	07	09:32	8°♍28'21	
evening set	10005 Aug	09	07:37	8°♍16'19	
desc. node	10005 Aug	14	16:04	5°♍55'17	
inferior conj	10005 Aug	17	13:07	3°♍58'24	-0°53'27
minimum elong	10005 Aug	17	10:52	4°♍02'25	0°52'46
min. Earth dist.	10005 Aug	20	13:43	1°♍50'23	0.56609 AU
	10005 Aug	23	12:34	30°℞♌	
morning rise	10005 Aug	25	10:53	29°♌03'05	
direct	10005 Aug	30	22:59	27°♌50'54	
	10005 Sep	07	10:18	0°♍	
morning max el	10005 Sep	14	04:59	5°♍12'02	26°09'00
	10005 Oct	02	05:54	0°♎	
asc. node	10005 Oct	07	15:11	10°♎03'17	
morning set	10005 Oct	12	12:30	20°♎06'46	
	10005 Oct	17	01:18	0°♏	
superior conj	10005 Oct	19	08:59	5°♏08'42	1°33'15
minimum elong	10005 Oct	19	07:27	5°♏00'13	1°33'20
max. Earth dist.	10005 Oct	20	04:40	6°♏57'42	1.31801 AU
evening rise	10005 Oct	26	07:59	20°♏15'11	
	10005 Oct	31	03:40	0°♐	
desc. node	10005 Nov	10	14:07	18°♐24'20	
	10005 Nov	18	14:58	0°♑	
evening max el	10005 Nov	26	23:46	9°♑27'04	27°17'54
retrograde	10005 Dec	10	20:35	16°♑40'25	
evening set	10005 Dec	17	21:01	14°♑26'17	
min. Earth dist.	10005 Dec	21	14:14	11°♑38'42	0.61360 AU
inferior conj	10005 Dec	24	15:46	8°♑56'25	-3°10'39
minimum elong	10005 Dec	24	22:03	8°♑42'29	3°07'58
morning rise	10006 Jan	01	01:34	3°♑59'48	
direct	10006 Jan	03	06:04	3°♑39'44	
asc. node	10006 Jan	03	14:51	3°♑40'19	
morning max el	10006 Jan	10	06:57	7°♑12'28	17°53'21
	10006 Jan	24	23:58	0°♒	
morning set	10006 Jan	25	22:47	1°♒43'33	
superior conj	10006 Feb	05	13:51	20°♒40'33	0°07'29
minimum elong	10006 Feb	05	14:31	20°♒43'29	0°07'40
behind sun begin	10006 Feb	05	07:08	20°♒11'31	
behind sun end	10006 Feb	05	21:55	21°♒15'22	
desc. node	10006 Feb	06	13:34	22°♒22'41	
	10006 Feb	11	01:57	0°♓	
max. Earth dist.	10006 Feb	12	23:55	3°♓09'36	1.42933 AU
evening rise	10006 Feb	19	10:32	13°♓29'54	
	10006 Mar	02	06:25	0°♈	
evening max el	10006 Mar	23	13:24	28°♈07'40	21°59'46
	10006 Mar	25	12:53	0°♉	
retrograde	10006 Apr	01	22:24	3°♉40'21	
asc. node	10006 Apr	01	13:12	3°♉39'37	
evening set	10006 Apr	06	11:44	1°♉48'40	
	10006 Apr	08	07:53	30°℞♈	
inferior conj	10006 Apr	11	19:04	25°♈28'57	2°46'23
minimum elong	10006 Apr	11	17:04	25°♈35'54	2°45'48
min. Earth dist.	10006 Apr	11	19:09	25°♈28'40	0.68558 AU
morning rise	10006 Apr	16	22:15	19°♈17'10	
direct	10006 Apr	21	18:53	17°♈12'35	
morning max el	10006 May	01	09:26	22°♈51'39	22°23'19
desc. node	10006 May	05	14:06	27°♈30'00	
	10006 May	07	15:03	0°♉	
	10006 May	28	13:25	0°♊	
morning set	10006 Jun	03	23:16	10°♊12'01	
max. Earth dist.	10006 Jun	09	00:40	18°♊34'54	1.40803 AU
	10006 Jun	15	14:55	0°♋	
superior conj	10006 Jun	16	19:36	2°♋07'56	-1°36'19
minimum elong	10006 Jun	17	01:40	2°♋35'09	1°36'00
evening rise	10006 Jun	27	01:11	21°♋01'44	
asc. node	10006 Jun	28	11:55	23°♋44'26	
	10006 Jul	01	21:17	0°♌	
evening max el	10006 Jul	13	02:03	16°♌41'28	18°19'52
retrograde	10006 Jul	20	11:01	20°♌24'01	
evening set	10006 Jul	22	15:39	20°♌05'06	
inferior conj	10006 Jul	30	01:39	15°♌27'05	0°44'26
minimum elong	10006 Jul	30	03:09	15°♌23'58	0°43'34
desc. node	10006 Aug	01	13:15	13°♌22'54	
min. Earth dist.	10006 Aug	02	10:26	12°♌40'20	0.58606 AU
morning rise	10006 Aug	06	11:12	9°♌56'17	
direct	10006 Aug	12	15:33	8°♌14'27	
morning max el	10006 Aug	27	00:47	15°♌59'07	27°19'36
	10006 Sep	07	11:32	0°♍	
asc. node	10006 Sep	24	12:03	29°♍43'58	
	10006 Sep	24	15:11	0°♎	
morning set	10006 Sep	26	20:50	4°♎38'56	
superior conj	10006 Oct	03	20:46	19°♎56'01	1°21'35
minimum elong	10006 Oct	03	18:40	19°♎44'20	1°21'26
max. Earth dist.	10006 Oct	03	14:12	19°♎19'29	1.31497 AU
	10006 Oct	08	09:57	0°♏	
evening rise	10006 Oct	10	15:02	4°♏46'43	
	10006 Oct	23	20:52	0°♐	
desc. node	10006 Oct	28	11:15	7°♐10'01	
evening max el	10006 Nov	09	00:51	21°♐14'02	26°31'28
retrograde	10006 Nov	22	23:04	28°♐20'48	
evening set	10006 Nov	29	14:56	26°♐31'13	
min. Earth dist.	10006 Dec	03	14:29	23°♐55'51	0.59247 AU
inferior conj	10006 Dec	06	18:52	21°♐28'46	-4°22'25
minimum elong	10006 Dec	07	02:41	21°♐13'40	4°19'51
morning rise	10006 Dec	14	17:02	16°♐53'55	
direct	10006 Dec	16	20:54	16°♐37'24	
asc. node	10006 Dec	21	11:56	17°♐57'36	
morning max el	10006 Dec	24	17:50	20°♐29'35	18°18'43
	10006 Dec	31	21:07	0°♑	
morning set	10007 Jan	09	12:55	15°♑40'03	
	10007 Jan	17	03:14	0°♒	

superior conj	10007 Jan	18	19:42	3°♒05'48	0°42'04
minimum elong	10007 Jan	18	22:30	3°♒18'33	0°42'01
desc. node	10007 Jan	24	10:25	13°♒05'32	
max. Earth dist.	10007 Jan	26	09:28	16°♒27'56	1.40951 AU
evening rise	10007 Jan	30	23:56	24°♒09'33	
	10007 Feb	03	14:49	0°♓	
	10007 Feb	24	03:46	0°♈	
evening max el	10007 Mar	06	04:51	11°♈52'56	23°19'36
retrograde	10007 Mar	16	17:40	18°♈06'34	
asc. node	10007 Mar	19	10:24	17°♈31'26	
evening set	10007 Mar	21	18:26	16°♈00'36	
min. Earth dist.	10007 Mar	26	15:57	10°♈15'19	0.68523 AU
inferior conj	10007 Mar	27	03:59	9°♈33'51	2°15'43
minimum elong	10007 Mar	27	01:47	9°♈41'27	2°15'03
morning rise	10007 Apr	01	09:04	3°♈27'49	
direct	10007 Apr	05	16:10	1°♈44'58	
morning max el	10007 Apr	14	01:49	6°♈34'33	21°00'21
desc. node	10007 Apr	22	10:58	16°♈37'31	
	10007 May	01	21:39	0°♉	
morning set	10007 May	14	13:04	19°♉12'36	
	10007 May	21	07:47	0°♊	
max. Earth dist.	10007 May	22	04:34	1°♊24'21	1.42858 AU
superior conj	10007 May	29	06:19	13°♊09'24	-2°00'54
minimum elong	10007 May	29	11:58	13°♊33'27	2°00'55
	10007 Jun	07	22:10	0°♋	
evening rise	10007 Jun	09	23:51	3°♋41'53	
asc. node	10007 Jun	15	08:55	13°♋14'56	
evening max el	10007 Jun	26	13:45	29°♋40'19	18°05'15
	10007 Jun	26	21:55	0°♌	
retrograde	10007 Jul	03	05:21	3°♌04'29	
evening set	10007 Jul	05	17:50	2°♌35'10	
	10007 Jul	09	19:54	30°℞♋	
inferior conj	10007 Jul	12	10:23	27°♋37'13	1°56'29
minimum elong	10007 Jul	12	13:12	27°♋30'26	1°55'15
min. Earth dist.	10007 Jul	15	15:03	24°♋34'03	0.60867 AU
morning rise	10007 Jul	19	05:55	21°♋40'46	
desc. node	10007 Jul	19	10:26	21°♋33'28	
direct	10007 Jul	25	20:33	19°♋29'45	
morning max el	10007 Aug	09	03:19	27°♋28'30	27°53'56
	10007 Aug	11	13:13	0°♌	
	10007 Sep	01	04:51	0°♍	
morning set	10007 Sep	11	00:43	18°♍54'53	
asc. node	10007 Sep	11	08:54	19°♍37'21	
	10007 Sep	16	05:20	0°♎	
max. Earth dist.	10007 Sep	16	22:32	1°♎34'15	1.31673 AU
superior conj	10007 Sep	18	07:36	4°♎36'28	1°04'41
minimum elong	10007 Sep	18	05:22	4°♎24'10	1°04'19
evening rise	10007 Sep	25	01:15	19°♎24'24	
	10007 Sep	30	04:01	0°♏	
desc. node	10007 Oct	15	08:27	24°♏58'57	
	10007 Oct	19	14:25	0°♐	
evening max el	10007 Oct	21	17:54	2°♐10'11	25°14'21
retrograde	10007 Nov	04	14:59	9°♐09'17	
evening set	10007 Nov	10	10:21	7°♐52'30	
min. Earth dist.	10007 Nov	15	05:55	5°♐12'12	0.57238 AU
inferior conj	10007 Nov	18	02:32	3°♐17'16	-5°19'43
minimum elong	10007 Nov	18	08:46	3°♐06'47	5°18'23
	10007 Nov	23	16:36	30°℞♏	
morning rise	10007 Nov	26	09:28	29°♏04'46	
direct	10007 Nov	28	18:06	28°♏48'24	
	10007 Dec	03	12:35	0°♐	
morning max el	10007 Dec	07	19:47	3°♐09'44	19°05'27
asc. node	10007 Dec	08	08:58	3°♐42'20	
morning set	10007 Dec	24	12:40	0°♑02'26	
	10007 Dec	24	12:11	0°♑	

superior conj	10008 Jan	01	19:50	16°♑22'26	1°08'21
minimum elong	10008 Jan	01	22:57	16°♑37'28	1°08'23
max. Earth dist.	10008 Jan	08	15:39	29°♑04'44	1.38767 AU
	10008 Jan	09	03:59	0°♒	
desc. node	10008 Jan	11	07:20	3°♒46'40	
evening rise	10008 Jan	12	11:05	5°♒47'06	
	10008 Jan	27	15:29	0°♓	
evening max el	10008 Feb	16	18:34	25°♓42'02	24°38'55
	10008 Feb	21	19:55	0°♈	
retrograde	10008 Feb	28	09:10	2°♈28'40	
evening set	10008 Mar	04	22:05	0°♈10'06	
asc. node	10008 Mar	05	07:37	29°♓49'07	
	10008 Mar	05	02:46	30°℞♓	
min. Earth dist.	10008 Mar	09	11:37	24°♓59'41	0.68072 AU
inferior conj	10008 Mar	10	11:22	23°♓40'35	1°35'57
minimum elong	10008 Mar	10	09:25	23°♓47'05	1°35'20
morning rise	10008 Mar	15	20:55	17°♓41'44	
direct	10008 Mar	19	15:19	16°♓20'23	
morning max el	10008 Mar	27	01:39	20°♓29'29	19°49'32
	10008 Apr	03	21:18	0°♈	
desc. node	10008 Apr	08	07:47	6°♈17'10	
greatest brilliancy	10008 Apr	09	01:55	7°♈23'12	-0.6m
morning set	10008 Apr	22	11:57	27°♈37'37	
	10008 Apr	24	00:52	0°♉	
max. Earth dist.	10008 May	03	15:43	15°♉03'28	1.44451 AU
superior conj	10008 May	08	16:45	23°♉08'37	-2°12'36
minimum elong	10008 May	08	17:51	23°♉13'04	2°12'56
	10008 May	12	21:32	0°♊	
evening rise	10008 May	22	03:28	15°♊30'22	
	10008 May	30	18:05	0°♋	
asc. node	10008 Jun	01	06:00	2°♋24'09	
evening max el	10008 Jun	09	03:30	13°♋00'18	18°09'34
retrograde	10008 Jun	15	12:22	16°♋21'01	
evening set	10008 Jun	18	08:42	15°♋38'46	
inferior conj	10008 Jun	24	11:35	10°♋22'12	2°43'25
minimum elong	10008 Jun	24	14:05	10°♋15'23	2°42'28
min. Earth dist.	10008 Jun	27	04:41	7°♋25'55	0.63084 AU
morning rise	10008 Jun	30	17:48	4°♋10'41	
desc. node	10008 Jul	05	07:34	1°♋53'11	
direct	10008 Jul	07	11:19	1°♋37'59	
morning max el	10008 Jul	21	10:58	9°♋40'38	27°49'55
	10008 Aug	06	06:56	0°♌	
	10008 Aug	23	12:04	0°♍	
morning set	10008 Aug	24	22:00	2°♍49'10	
asc. node	10008 Aug	28	05:46	9°♍39'00	
max. Earth dist.	10008 Aug	30	02:01	13°♍32'57	1.32350 AU
superior conj	10008 Sep	01	15:37	19°♍04'48	0°42'51
minimum elong	10008 Sep	01	13:47	18°♍54'52	0°42'24
	10008 Sep	06	15:43	0°♎	
evening rise	10008 Sep	08	12:46	4°♎03'03	
	10008 Sep	22	08:08	0°♏	
desc. node	10008 Oct	01	05:40	11°♏29'04	
evening max el	10008 Oct	02	05:13	12°♏27'45	23°37'37
retrograde	10008 Oct	15	17:57	19°♏13'01	
evening set	10008 Oct	20	05:18	18°♏29'27	
min. Earth dist.	10008 Oct	26	15:23	15°♏25'52	0.55636 AU
inferior conj	10008 Oct	28	13:55	14°♏16'48	-5°43'25
minimum elong	10008 Oct	28	13:49	14°♏16'57	5°43'08
morning rise	10008 Nov	06	00:13	10°♏22'55	
direct	10008 Nov	08	20:08	10°♏03'05	
morning max el	10008 Nov	19	09:17	15°♏02'07	20°14'54
asc. node	10008 Nov	24	05:59	20°♏38'36	
	10008 Nov	30	04:48	0°♐	
morning set	10008 Dec	07	18:41	14°♐40'22	

superior conj	10008 Dec 15 09:24	0°♑16'13	1°26'22
minimum elong	10008 Dec 15 11:49	0°♑28'23	1°26'34
	10008 Dec 15 06:11	0°♑	
max. Earth dist.	10008 Dec 20 22:46	11°♑10'37	1.36623 AU
evening rise	10008 Dec 24 18:09	18°♑16'02	
desc. node	10008 Dec 28 04:16	24°♑21'38	
	10008 Dec 31 11:30	0°♒	
	10009 Jan 20 21:17	0°♓	
evening max el	10009 Jan 29 08:01	9°♓31'38	25°50'43
retrograde	10009 Feb 10 19:52	16°♓40'15	
evening set	10009 Feb 16 21:01	14°♓11'49	
asc. node	10009 Feb 20 04:51	10°♓46'16	
min. Earth dist.	10009 Feb 21 03:47	9°♓36'16	0.67224 AU
inferior conj	10009 Feb 22 15:17	7°♓44'30	0°47'12
minimum elong	10009 Feb 22 14:07	7°♓48'08	0°46'57
morning rise	10009 Feb 28 07:47	1°♓54'44	
direct	10009 Mar 03 14:39	0°♓52'58	
morning max el	10009 Mar 10 09:12	4°♓34'01	18°53'51
desc. node	10009 Mar 26 04:35	26°♓19'48	
	10009 Mar 28 13:35	0°♈	
morning set	10009 Apr 01 18:59	6°♈33'45	
max. Earth dist.	10009 Apr 16 08:42	29°♈17'52	1.45400 AU
	10009 Apr 16 19:26	0°♉	
superior conj	10009 Apr 18 06:06	2°♉16'08	-2°05'34
minimum elong	10009 Apr 17 23:53	1°♉51'41	2°05'28
evening rise	10009 May 03 07:54	26°♉19'35	
	10009 May 05 14:17	0°♊	
asc. node	10009 May 19 03:06	21°♊04'14	
evening max el	10009 May 23 16:09	26°♊32'52	18°32'11
	10009 May 29 07:18	0°♋	
retrograde	10009 May 30 03:52	0°♋04'06	
	10009 May 31 00:18	30°℞♊	
evening set	10009 Jun 02 07:58	29°♊07'27	
inferior conj	10009 Jun 08 01:07	23°♊33'52	3°09'31
minimum elong	10009 Jun 08 02:33	23°♊29'34	3°08'56
min. Earth dist.	10009 Jun 10 03:29	21°♊02'55	0.65030 AU
morning rise	10009 Jun 13 20:15	17°♊15'18	
direct	10009 Jun 20 10:02	14°♊31'53	
desc. node	10009 Jun 22 04:38	14°♊42'30	
morning max el	10009 Jul 03 21:20	22°♊27'23	27°11'36
	10009 Jul 10 12:27	0°♋	
	10009 Jul 30 13:04	0°♌	
morning set	10009 Aug 08 09:58	16°♌14'49	
max. Earth dist.	10009 Aug 12 21:11	25°♌08'45	1.33527 AU
asc. node	10009 Aug 15 02:38	29°♌44'47	
	10009 Aug 15 05:33	0°♍	
superior conj	10009 Aug 16 18:42	3°♍15'14	0°16'32
minimum elong	10009 Aug 16 17:53	3°♍10'51	0°16'08
evening rise	10009 Aug 23 23:41	18°♍37'23	
	10009 Aug 29 13:45	0°♎	
evening max el	10009 Sep 13 18:23	22°♎38'15	21°58'17
desc. node	10009 Sep 18 02:54	26°♎12'36	
retrograde	10009 Sep 26 09:30	28°♎55'21	
evening set	10009 Sep 29 09:58	28°♎34'58	
inferior conj	10009 Oct 08 09:55	24°♎36'00	-5°14'21
minimum elong	10009 Oct 08 02:09	24°♎46'52	5°12'53
min. Earth dist.	10009 Oct 07 22:42	24°♎51'42	0.54740 AU
morning rise	10009 Oct 16 19:46	20°♎48'38	
direct	10009 Oct 20 07:28	20°♎21'52	
morning max el	10009 Nov 01 09:22	26°♎04'17	21°45'43
	10009 Nov 05 01:33	0°♏	
asc. node	10009 Nov 11 02:55	8°♏31'03	
morning set	10009 Nov 22 04:29	29°♏26'43	
	10009 Nov 22 10:50	0°♐	

superior conj	10009 Nov 29 08:31	14°♐36'09	1°36'45
minimum elong	10009 Nov 29 09:47	14°♐42'46	1°37'05
max. Earth dist.	10009 Dec 03 11:13	23°♐04'10	1.34732 AU
	10009 Dec 06 23:26	0°♑	
evening rise	10009 Dec 07 17:36	1°♑27'18	
desc. node	10009 Dec 15 01:16	14°♑46'00	
	10009 Dec 24 11:51	0°♒	
evening max el	10010 Jan 11 21:26	23°♒14'30	26°47'40
	10010 Jan 21 17:21	0°♓	
retrograde	10010 Jan 25 00:59	0°♓34'33	
	10010 Jan 28 04:09	30°℞♒	
evening set	10010 Jan 31 13:24	28°♒00'29	
min. Earth dist.	10010 Feb 04 14:14	23°♒59'23	0.65992 AU
inferior conj	10010 Feb 06 13:33	21°♒41'06	-0°10'18
minimum elong	10010 Feb 06 13:50	21°♒40'17	0°09'53
transit middle	10010 Feb 06 13:50	21°♒40'17	0°09'53
transit begin	10010 Feb 06 11:31	21°♒47'05	
transit end	10010 Feb 06 16:09	21°♒33'29	
asc. node	10010 Feb 07 02:01	21°♒04'47	
morning rise	10010 Feb 12 15:24	16°♒02'38	
direct	10010 Feb 15 12:10	15°♒17'25	
morning max el	10010 Feb 21 22:49	18°♒42'53	18°14'38
	10010 Mar 02 13:25	0°♓	
morning set	10010 Mar 13 04:01	16°♓49'48	
desc. node	10010 Mar 13 01:22	16°♓39'11	
	10010 Mar 21 09:46	0°♈	
superior conj	10010 Mar 28 11:58	11°♈10'38	-1°38'43
minimum elong	10010 Mar 28 02:24	10°♈33'10	1°37'49
max. Earth dist.	10010 Mar 30 04:25	13°♈49'01	1.45615 AU
	10010 Apr 09 13:17	0°♉	
evening rise	10010 Apr 13 13:14	6°♉14'14	
greatest brilliancy	10010 Apr 24 21:17	23°♉48'33	-0.7m
	10010 Apr 29 01:08	0°♊	
asc. node	10010 May 06 00:13	9°♊05'26	
evening max el	10010 May 07 01:12	10°♊11'20	19°12'04
retrograde	10010 May 14 00:15	14°♊05'47	
evening set	10010 May 17 12:29	12°♊53'59	
inferior conj	10010 May 22 23:24	7°♊05'03	3°18'58
minimum elong	10010 May 22 23:37	7°♊04'22	3°18'36
min. Earth dist.	10010 May 24 10:38	5°♊11'10	0.66590 AU
morning rise	10010 May 28 10:17	0°♊44'46	
	10010 May 29 08:00	30°℞♉	
direct	10010 Jun 03 15:30	28°♉01'38	
desc. node	10010 Jun 09 01:39	29°♉41'02	
	10010 Jun 09 14:29	0°♊	
morning max el	10010 Jun 16 07:59	5°♊36'16	26°06'25
	10010 Jul 05 02:07	0°♋	
morning set	10010 Jul 22 09:01	29°♋01'40	
	10010 Jul 22 21:34	0°♌	
max. Earth dist.	10010 Jul 26 05:48	6°♌21'09	1.35183 AU
superior conj	10010 Jul 31 14:16	16°♌59'59	-0°13'36
minimum elong	10010 Jul 31 15:05	17°♌04'06	0°13'46
behind sun begin	10010 Jul 31 11:56	16°♌48'02	
behind sun end	10010 Jul 31 18:14	17°♌20'10	
asc. node	10010 Aug 01 23:30	19°♌50'02	
	10010 Aug 06 21:04	0°♍	
evening rise	10010 Aug 08 07:52	3°♍00'24	
	10010 Aug 23 19:41	0°♎	
evening max el	10010 Aug 26 18:00	3°♎16'05	20°31'10
desc. node	10010 Sep 05 00:08	8°♎38'46	
retrograde	10010 Sep 06 21:41	8°♎48'06	
evening set	10010 Sep 08 23:20	8°♎37'29	
inferior conj	10010 Sep 18 02:36	4°♎40'37	-3°51'03
minimum elong	10010 Sep 17 17:04	4°♎54'26	3°48'05
min. Earth dist.	10010 Sep 19 07:22	3°♎58'56	0.54753 AU

morning rise	10010 Sep	26	10:23	0°♎38'45	
direct	10010 Sep	30	15:52	0°♎00'22	
morning max el	10010 Oct	13	23:40	6°♎27'08	23°30'42
asc. node	10010 Oct	28	23:49	27°♎05'57	
	10010 Oct	30	13:55	0°♏	
morning set	10010 Nov	06	16:01	14°♏15'11	
superior conj	10010 Nov	13	14:05	29°♏12'42	1°40'14
minimum elong	10010 Nov	13	14:07	29°♏12'54	1°40'34
	10010 Nov	13	22:51	0°♐	
max. Earth dist.	10010 Nov	16	07:23	5°♐01'58	1.33229 AU
evening rise	10010 Nov	21	05:44	15°♐11'14	
	10010 Nov	29	02:26	0°♑	
desc. node	10010 Dec	01	22:20	4°♑53'52	
	10010 Dec	19	05:44	0°♒	
evening max el	10010 Dec	25	10:09	6°♒40'38	27°22'43
retrograde	10011 Jan	08	00:03	14°♒03'06	
evening set	10011 Jan	14	20:59	11°♒29'55	
min. Earth dist.	10011 Jan	18	16:52	8°♒01'21	0.64402 AU
inferior conj	10011 Jan	21	03:47	5°♒24'40	-1°15'55
minimum elong	10011 Jan	21	06:08	5°♒18'24	1°14'34
asc. node	10011 Jan	24	23:09	1°♒43'18	
morning rise	10011 Jan	27	17:03	0°♒00'07	
	10011 Jan	27	17:10	30°℞♑	
direct	10011 Jan	30	05:30	29°♑27'42	
	10011 Feb	01	17:47	0°♒	
morning max el	10011 Feb	05	15:50	2°♒48'46	17°52'24
morning set	10011 Feb	22	18:00	28°♒31'02	
	10011 Feb	23	15:10	0°♓	
desc. node	10011 Feb	27	22:11	7°♓10'31	
superior conj	10011 Mar	08	05:10	20°♓43'00	-0°58'45
minimum elong	10011 Mar	07	22:40	20°♓16'54	0°57'47
max. Earth dist.	10011 Mar	12	23:48	28°♓19'08	1.45084 AU
	10011 Mar	14	01:24	0°♈	
evening rise	10011 Mar	24	03:06	15°♈37'48	
	10011 Apr	02	14:11	0°♉	
greatest brilliancy	10011 Apr	08	03:01	8°♉11'22	-0.6m
evening max el	10011 Apr	20	05:09	23°♉52'50	20°07'38
asc. node	10011 Apr	22	21:22	26°♉16'16	
retrograde	10011 Apr	27	22:47	28°♉20'47	
evening set	10011 May	01	19:53	26°♉53'35	
inferior conj	10011 May	07	03:33	20°♉51'04	3°15'00
minimum elong	10011 May	07	02:41	20°♉54'02	3°14'38
min. Earth dist.	10011 May	08	00:25	19°♉40'15	0.67713 AU
morning rise	10011 May	12	09:11	14°♉32'27	
direct	10011 May	18	02:53	11°♉59'07	
desc. node	10011 May	26	22:36	16°♉19'19	
morning max el	10011 May	29	17:40	18°♉57'19	24°43'54
	10011 Jun	08	01:52	0°♊	
	10011 Jun	28	04:23	0°♋	
morning set	10011 Jul	04	14:42	10°♋58'27	
max. Earth dist.	10011 Jul	08	05:12	17°♋26'30	1.37240 AU
superior conj	10011 Jul	14	23:18	0°♌11'52	-0°46'10
minimum elong	10011 Jul	15	02:16	0°♌26'18	0°46'00
	10011 Jul	14	20:52	0°♌	
asc. node	10011 Jul	19	20:24	9°♌51'21	
evening rise	10011 Jul	23	11:00	17°♌05'58	
	10011 Jul	30	03:31	0°♍	
evening max el	10011 Aug	09	07:25	14°♍39'35	19°23'36
retrograde	10011 Aug	18	18:17	19°♍20'52	
evening set	10011 Aug	20	14:25	19°♍10'59	
desc. node	10011 Aug	22	21:21	18°♍33'06	
inferior conj	10011 Aug	29	06:25	15°♍03'46	-1°58'26
minimum elong	10011 Aug	29	01:07	15°♍12'23	1°56'32
min. Earth dist.	10011 Aug	31	19:28	13°♍24'50	0.55706 AU

morning rise	10011 Sep	06	09:11	10°♍29'47	
direct	10011 Sep	11	10:21	9°♍31'58	
morning max el	10011 Sep	25	11:23	16°♍36'43	25°15'30
	10011 Oct	06	08:48	0°♎	
asc. node	10011 Oct	15	20:40	16°♎12'52	
morning set	10011 Oct	22	03:36	29°♎01'01	
	10011 Oct	22	14:36	0°♏	
superior conj	10011 Oct	28	23:39	13°♏58'32	1°37'28
minimum elong	10011 Oct	28	22:36	13°♏52'49	1°37'41
max. Earth dist.	10011 Oct	30	10:56	17°♏12'16	1.32184 AU
evening rise	10011 Nov	05	03:19	29°♏19'42	
	10011 Nov	05	11:09	0°♐	
desc. node	10011 Nov	18	19:25	24°♐38'00	
	10011 Nov	22	05:00	0°♑	
evening max el	10011 Dec	07	20:28	19°♑38'10	27°29'12
retrograde	10011 Dec	21	16:05	26°♑56'11	
evening set	10011 Dec	28	16:57	24°♑32'29	
min. Earth dist.	10012 Jan	01	10:02	21°♑31'57	0.62522 AU
inferior conj	10012 Jan	04	07:03	18°♑47'51	-2°27'54
minimum elong	10012 Jan	04	11:55	18°♑36'14	2°25'36
morning rise	10012 Jan	11	09:13	13°♑40'01	
asc. node	10012 Jan	11	20:16	13°♑31'33	
direct	10012 Jan	13	15:38	13°♑16'34	
morning max el	10012 Jan	20	09:09	16°♑42'47	17°47'43
	10012 Jan	29	19:29	0°♒	
morning set	10012 Feb	05	07:35	11°♒19'39	
desc. node	10012 Feb	14	19:00	27°♒49'07	
	10012 Feb	16	01:56	0°♓	
superior conj	10012 Feb	16	21:25	1°♓21'55	-0°15'42
minimum elong	10012 Feb	16	19:52	1°♓15'27	0°15'14
behind sun begin	10012 Feb	16	17:03	1°♓03'34	
behind sun end	10012 Feb	16	22:42	1°♓27'19	
max. Earth dist.	10012 Feb	23	16:26	12°♓31'47	1.43878 AU
evening rise	10012 Mar	02	15:57	25°♓07'10	
	10012 Mar	05	20:11	0°♈	
	10012 Mar	26	16:11	0°♉	
evening max el	10012 Apr	02	03:33	7°♉35'25	21°16'11
asc. node	10012 Apr	08	18:33	12°♉21'34	
retrograde	10012 Apr	10	21:13	12°♉43'37	
evening set	10012 Apr	15	04:17	11°♉00'55	
inferior conj	10012 Apr	20	11:09	4°♉46'56	2°59'46
minimum elong	10012 Apr	20	09:28	4°♉52'47	2°59'16
min. Earth dist.	10012 Apr	20	18:37	4°♉20'58	0.68382 AU
	10012 Apr	24	03:33	30°℞♈	
morning rise	10012 Apr	25	14:26	28°♈32'11	
direct	10012 Apr	30	19:00	26°♈15'36	
	10012 May	08	13:19	0°♉	
morning max el	10012 May	11	03:20	2°♉24'50	23°14'16
desc. node	10012 May	12	19:31	4°♉10'20	
	10012 Jun	01	02:38	0°♊	
morning set	10012 Jun	14	21:43	21°♊50'59	
max. Earth dist.	10012 Jun	19	01:29	28°♊55'38	1.39513 AU
	10012 Jun	19	16:18	0°♋	
superior conj	10012 Jun	26	17:55	12°♋41'22	-1°18'51
minimum elong	10012 Jun	26	23:06	13°♋05'20	1°18'29
asc. node	10012 Jul	05	17:21	29°♋44'25	
	10012 Jul	05	20:35	0°♌	
evening rise	10012 Jul	06	06:09	0°♌46'01	
evening max el	10012 Jul	22	08:34	26°♌47'27	18°37'11
	10012 Jul	26	19:22	0°♍	
retrograde	10012 Jul	30	08:25	0°♍46'52	
evening set	10012 Aug	01	09:04	0°♍32'20	
	10012 Aug	03	01:07	30°℞♌	
desc. node	10012 Aug	08	18:32	26°♌28'30	

inferior conj	10012 Aug 09 06:17	26°♌06'19	-0°09'00
minimum elong	10012 Aug 09 05:55	26°♌07'00	0°09'07
transit middle	10012 Aug 09 05:55	26°♌07'00	0°09'07
transit begin	10012 Aug 09 02:56	26°♌12'40	
transit end	10012 Aug 09 08:55	26°♌01'19	
min. Earth dist.	10012 Aug 12 12:21	23°♌39'19	0.57413 AU
morning rise	10012 Aug 16 23:17	20°♌55'16	
direct	10012 Aug 22 19:12	19°♌30'32	
morning max el	10012 Sep 06 02:58	27°♌02'44	26°42'57
	10012 Sep 08 23:16	0°♍	
	10012 Sep 28 19:11	0°♎	
asc. node	10012 Oct 01 17:33	5°♎43'29	
morning set	10012 Oct 05 13:37	13°♎39'48	
superior conj	10012 Oct 12 11:11	28°♎47'23	1°28'56
minimum elong	10012 Oct 12 09:22	28°♎37'16	1°28'57
max. Earth dist.	10012 Oct 12 19:22	29°♎32'51	1.31612 AU
	10012 Oct 13 00:15	0°♏	
evening rise	10012 Oct 19 07:38	13°♏45'24	
	10012 Oct 27 12:18	0°♐	
desc. node	10012 Nov 04 16:33	13°♐49'00	
	10012 Nov 17 03:31	0°♑	
evening max el	10012 Nov 19 01:58	1°♑55'07	27°02'28
retrograde	10012 Dec 02 23:49	9°♑05'20	
evening set	10012 Dec 09 21:41	7°♑00'53	
min. Earth dist.	10012 Dec 13 16:34	4°♑19'58	0.60457 AU
inferior conj	10012 Dec 16 20:04	1°♑42'21	-3°41'57
minimum elong	10012 Dec 17 03:14	1°♑27'21	3°39'11
	10012 Dec 18 22:25	30°℞♐	
morning rise	10012 Dec 24 11:21	26°♐54'23	
direct	10012 Dec 26 15:00	26°♐36'13	
asc. node	10012 Dec 28 17:21	26°♐54'11	
	10013 Jan 02 16:35	0°♑	
morning max el	10013 Jan 02 23:24	0°♑16'25	18°01'38
morning set	10013 Jan 18 14:23	24°♑56'41	
	10013 Jan 21 07:54	0°♒	
superior conj	10013 Jan 28 14:33	13°♒11'23	0°23'06
minimum elong	10013 Jan 28 16:24	13°♒19'31	0°23'09
desc. node	10013 Jan 31 15:52	18°♒31'38	
max. Earth dist.	10013 Feb 05 05:06	26°♒14'40	1.42132 AU
	10013 Feb 07 11:43	0°♓	
evening rise	10013 Feb 10 18:03	5°♓16'30	
	10013 Feb 27 02:44	0°♈	
evening max el	10013 Mar 15 21:14	21°♈19'59	22°33'23
retrograde	10013 Mar 25 17:56	27°♈10'03	
asc. node	10013 Mar 26 15:45	27°♈05'59	
evening set	10013 Mar 30 12:03	25°♈12'15	
inferior conj	10013 Apr 04 20:08	18°♈49'22	2°34'31
minimum elong	10013 Apr 04 18:00	18°♈56'48	2°33'53
min. Earth dist.	10013 Apr 04 15:03	19°♈07'03	0.68602 AU
morning rise	10013 Apr 09 23:49	12°♈39'57	
direct	10013 Apr 14 14:46	10°♈44'17	
morning max el	10013 Apr 23 16:15	16°♈01'01	21°46'49
desc. node	10013 Apr 29 16:25	22°♈54'13	
	10013 May 05 00:57	0°♉	
	10013 May 25 03:27	0°♊	
morning set	10013 May 26 02:09	1°♊30'22	
max. Earth dist.	10013 Jun 01 02:04	11°♊16'04	1.41728 AU
superior conj	10013 Jun 08 17:37	24°♊18'11	-1°47'53
minimum elong	10013 Jun 08 23:55	24°♊45'45	1°47'40
	10013 Jun 11 22:55	0°♋	
evening rise	10013 Jun 19 13:36	13°♋51'29	
asc. node	10013 Jun 22 14:21	19°♋24'51	
	10013 Jun 28 15:57	0°♌	
evening max el	10013 Jul 05 17:34	9°♌30'46	18°11'13
retrograde	10013 Jul 12 17:35	13°♌03'24	
evening set	10013 Jul 15 01:39	12°♌40'17	
inferior conj	10013 Jul 22 03:48	7°♌53'22	1°18'17
minimum elong	10013 Jul 22 06:07	7°♌48'13	1°17'08
min. Earth dist.	10013 Jul 25 11:58	4°♌57'00	0.59563 AU
desc. node	10013 Jul 26 15:44	4°♌00'40	
morning rise	10013 Jul 29 07:29	2°♌10'37	
direct	10013 Aug 04 17:09	0°♌16'04	
morning max el	10013 Aug 19 01:37	8°♌06'50	27°38'58
	10013 Sep 04 16:54	0°♍	
asc. node	10013 Sep 18 14:24	25°♍30'20	
morning set	10013 Sep 19 20:18	28°♍05'49	
	10013 Sep 20 17:57	0°♎	
max. Earth dist.	10013 Sep 26 05:03	11°♎54'04	1.31517 AU
superior conj	10013 Sep 26 22:47	13°♎32'29	1°15'02
minimum elong	10013 Sep 26 20:34	13°♎20'11	1°14'47
evening rise	10013 Oct 03 16:18	28°♎20'37	
	10013 Oct 04 10:56	0°♏	
	10013 Oct 21 00:37	0°♐	
desc. node	10013 Oct 22 13:44	2°♐12'57	
evening max el	10013 Oct 31 23:50	13°♐20'38	26°01'58
retrograde	10013 Nov 14 21:37	20°♐23'30	
evening set	10013 Nov 21 06:31	18°♐47'14	
min. Earth dist.	10013 Nov 25 12:36	16°♐12'14	0.58367 AU
inferior conj	10013 Nov 28 15:13	13°♐57'06	-4°49'29
minimum elong	10013 Nov 28 22:53	13°♐43'10	4°47'20
morning rise	10013 Dec 06 17:42	9°♐31'42	
direct	10013 Dec 08 23:01	9°♐15'32	
asc. node	10013 Dec 15 14:24	11°♐50'10	
morning max el	10013 Dec 17 06:54	13°♐18'41	18°35'54
	10013 Dec 28 14:11	0°♑	
morning set	10014 Jan 02 09:05	9°♑05'35	
superior conj	10014 Jan 11 04:47	26°♑00'01	0°54'15
minimum elong	10014 Jan 11 07:54	26°♑14'31	0°54'12
	10014 Jan 13 08:42	0°♒	
max. Earth dist.	10014 Jan 18 13:24	9°♒16'51	1.40034 AU
desc. node	10014 Jan 18 12:44	9°♒13'58	
evening rise	10014 Jan 22 16:38	16°♒20'25	
	10014 Jan 31 04:20	0°♓	
	10014 Feb 21 19:21	0°♈	
evening max el	10014 Feb 26 11:44	5°♈06'50	23°53'48
retrograde	10014 Mar 09 11:38	11°♈35'12	
asc. node	10014 Mar 13 12:58	10°♈17'31	
evening set	10014 Mar 14 17:40	9°♈23'24	
min. Earth dist.	10014 Mar 19 11:32	3°♈53'15	0.68384 AU
inferior conj	10014 Mar 20 04:38	2°♈55'04	1°59'57
minimum elong	10014 Mar 20 02:28	3°♈02'26	1°59'17
	10014 Mar 22 09:52	30°℞♓	
morning rise	10014 Mar 25 11:19	26°♓52'11	
direct	10014 Mar 29 12:56	25°♓18'40	
morning max el	10014 Apr 06 11:43	29°♓49'13	20°28'36
	10014 Apr 06 16:03	0°♈	
desc. node	10014 Apr 16 13:16	12°♈16'25	
	10014 Apr 28 16:02	0°♉	
morning set	10014 May 05 07:26	10°♉09'42	
max. Earth dist.	10014 May 14 09:45	24°♉30'33	1.43604 AU
	10014 May 17 18:59	0°♊	
superior conj	10014 May 20 18:09	4°♊53'19	-2°07'49
minimum elong	10014 May 20 22:27	5°♊11'10	2°08'01
evening rise	10014 Jun 02 04:49	26°♊11'43	
	10014 Jun 04 09:00	0°♋	
asc. node	10014 Jun 09 11:24	8°♋47'36	
evening max el	10014 Jun 19 06:34	22°♋40'02	18°04'45
retrograde	10014 Jun 25 18:07	26°♋01'14	

evening set	10014 Jun 28 09:55	25°♋26'40	
inferior conj	10014 Jul 04 20:09	20°♋20'18	2°19'11
minimum elong	10014 Jul 04 22:58	20°♋13'06	2°18'03
min. Earth dist.	10014 Jul 07 20:21	17°♋17'38	0.61827 AU
morning rise	10014 Jul 11 09:48	14°♋16'05	
desc. node	10014 Jul 13 12:53	13°♋00'17	
direct	10014 Jul 18 02:20	11°♋55'02	
morning max el	10014 Aug 01 06:55	19°♋56'35	27°56'53
	10014 Aug 09 21:17	0°♌	
	10014 Aug 28 15:51	0°♍	
morning set	10014 Sep 03 21:43	12°♍13'58	
asc. node	10014 Sep 05 11:16	15°♍28'12	
max. Earth dist.	10014 Sep 09 12:02	24°♍04'46	1.31906 AU
superior conj	10014 Sep 11 08:40	28°♍08'45	0°56'01
minimum elong	10014 Sep 11 06:32	27°♍57'04	0°55'35
	10014 Sep 12 04:53	0°♎	
evening rise	10014 Sep 18 03:20	12°♎59'46	
	10014 Sep 26 14:35	0°♏	
desc. node	10014 Oct 09 10:56	19°♏31'32	
evening max el	10014 Oct 13 13:36	23°♏56'49	24°34'29
	10014 Oct 22 14:18	0°♐	
retrograde	10014 Oct 27 08:06	0°♐51'35	
	10014 Nov 01 03:22	30°℞♏	
evening set	10014 Nov 01 15:17	29°♏49'08	
min. Earth dist.	10014 Nov 07 00:43	27°♏01'17	0.56495 AU
inferior conj	10014 Nov 09 14:02	25°♏24'16	-5°35'09
minimum elong	10014 Nov 09 18:07	25°♏17'45	5°34'26
morning rise	10014 Nov 17 23:09	21°♏20'58	
direct	10014 Nov 20 11:52	21°♏03'36	
morning max el	10014 Nov 30 03:54	25°♏39'27	19°32'15
asc. node	10014 Dec 02 11:25	28°♏07'02	
	10014 Dec 03 23:52	0°♐	
morning set	10014 Dec 17 11:47	23°♐35'10	
	10014 Dec 20 16:06	0°♑	
superior conj	10014 Dec 25 11:09	9°♑33'51	1°16'59
minimum elong	10014 Dec 25 14:04	9°♑48'08	1°17'04
max. Earth dist.	10014 Dec 31 19:14	21°♑37'40	1.37833 AU
evening rise	10015 Jan 04 12:32	28°♑20'02	
desc. node	10015 Jan 05 09:39	29°♑52'42	
	10015 Jan 05 11:19	0°♒	
	10015 Jan 24 14:01	0°♓	
evening max el	10015 Feb 09 00:56	18°♓55'25	25°10'49
retrograde	10015 Feb 21 01:16	25°♓53'23	
evening set	10015 Feb 26 19:30	23°♓29'53	
asc. node	10015 Feb 28 10:12	21°♓57'15	
min. Earth dist.	10015 Mar 03 05:54	18°♓34'30	0.67754 AU
inferior conj	10015 Mar 04 10:45	17°♓00'28	1°16'20
minimum elong	10015 Mar 04 09:04	17°♓05'59	1°15'50
morning rise	10015 Mar 09 22:58	11°♓05'28	
direct	10015 Mar 13 12:12	9°♓52'59	
morning max el	10015 Mar 20 15:01	13°♓48'44	19°23'56
	10015 Apr 02 00:04	0°♈	
greatest brilliancy	10015 Apr 02 09:09	0°♈33'39	-0.7m
desc. node	10015 Apr 03 10:04	2°♈06'18	
morning set	10015 Apr 14 06:42	18°♈39'01	
	10015 Apr 21 14:26	0°♉	
max. Earth dist.	10015 Apr 26 23:24	8°♉25'29	1.44930 AU
superior conj	10015 Apr 30 18:33	14°♉26'52	-2°12'09
minimum elong	10015 Apr 30 16:33	14°♉18'54	2°12'24
	10015 May 10 08:59	0°♊	
evening rise	10015 May 14 22:56	7°♊35'14	
asc. node	10015 May 27 08:29	27°♊45'26	
	10015 May 28 21:20	0°♋	
evening max el	10015 Jun 02 20:06	6°♋05'42	18°17'00
retrograde	10015 Jun 09 05:17	9°♋29'39	
evening set	10015 Jun 12 04:47	8°♋41'35	
inferior conj	10015 Jun 18 03:04	3°♋17'38	2°56'44
minimum elong	10015 Jun 18 05:09	3°♋11'40	2°55'57
min. Earth dist.	10015 Jun 20 14:07	0°♋30'01	0.63946 AU
	10015 Jun 21 01:08	30°℞♊	
morning rise	10015 Jun 24 04:12	27°♊02'00	
desc. node	10015 Jun 30 09:59	24°♊23'52	
direct	10015 Jun 30 20:44	24°♊23'12	
	10015 Jul 12 02:53	0°♋	
morning max el	10015 Jul 14 16:11	2°♋25'18	27°37'27
	10015 Aug 04 04:49	0°♌	
morning set	10015 Aug 18 15:25	25°♌57'13	
	10015 Aug 20 15:47	0°♍	
asc. node	10015 Aug 23 08:07	5°♍32'03	
max. Earth dist.	10015 Aug 23 12:17	5°♍53'54	1.32789 AU
superior conj	10015 Aug 26 14:50	12°♍30'03	0°32'13
minimum elong	10015 Aug 26 13:21	12°♍22'05	0°31'45
evening rise	10015 Sep 02 14:48	27°♍36'55	
	10015 Sep 03 17:48	0°♎	
	10015 Sep 21 06:27	0°♏	
evening max el	10015 Sep 25 00:23	4°♏06'18	22°54'36
desc. node	10015 Sep 26 08:09	5°♏20'02	
retrograde	10015 Oct 08 06:17	10°♏42'27	
evening set	10015 Oct 12 01:58	10°♏10'35	
min. Earth dist.	10015 Oct 19 09:03	6°♏51'39	0.55152 AU
inferior conj	10015 Oct 20 17:49	6°♏04'35	-5°38'15
minimum elong	10015 Oct 20 14:11	6°♏09'49	5°37'45
morning rise	10015 Oct 29 04:13	2°♏15'29	
direct	10015 Nov 01 06:12	1°♏53'19	
morning max el	10015 Nov 12 11:43	7°♏10'47	20°51'12
asc. node	10015 Nov 19 08:22	15°♏28'57	
	10015 Nov 27 17:12	0°♐	
morning set	10015 Dec 01 19:40	8°♐17'20	
superior conj	10015 Dec 09 05:14	23°♐40'17	1°31'40
minimum elong	10015 Dec 09 07:11	23°♐50'19	1°31'55
	10015 Dec 12 08:17	0°♑	
max. Earth dist.	10015 Dec 14 03:42	3°♑34'05	1.35774 AU
evening rise	10015 Dec 18 03:04	11°♑08'31	
desc. node	10015 Dec 23 06:37	20°♑23'55	
	10015 Dec 29 00:16	0°♒	
	10016 Jan 19 22:38	0°♓	
evening max el	10016 Jan 22 14:17	2°♓43'04	26°17'15
retrograde	10016 Feb 04 09:53	9°♓58'39	
evening set	10016 Feb 10 15:54	7°♓27'11	
min. Earth dist.	10016 Feb 14 20:00	3°♓06'15	0.66736 AU
asc. node	10016 Feb 15 07:22	2°♓31'46	
inferior conj	10016 Feb 16 12:32	1°♓02'11	0°23'51
minimum elong	10016 Feb 16 11:54	1°♓04'06	0°23'51
	10016 Feb 17 09:00	30°℞♒	
morning rise	10016 Feb 22 08:43	25°♒16'50	
direct	10016 Feb 25 10:59	24°♒22'39	
morning max el	10016 Mar 03 01:25	27°♒56'04	18°35'06
	10016 Mar 04 23:35	0°♓	
desc. node	10016 Mar 20 06:51	22°♓16'46	
morning set	10016 Mar 23 23:29	28°♓05'32	
	10016 Mar 25 04:34	0°♈	
max. Earth dist.	10016 Apr 08 17:21	22°♈47'08	1.45577 AU
superior conj	10016 Apr 09 02:34	23°♈23'11	-1°56'22
minimum elong	10016 Apr 08 18:04	22°♈49'59	1°55'54
	10016 Apr 13 07:53	0°♉	
evening rise	10016 Apr 24 17:06	17°♉59'11	
	10016 May 02 06:24	0°♊	
greatest brilliancy	10016 May 03 01:53	1°♊16'45	-0.8m

asc. node	10016 May 13 05:36	16°♊10'16	
evening max el	10016 May 16 07:30	19°♊41'21	18°47'09
retrograde	10016 May 22 23:07	23°♊20'58	
evening set	10016 May 26 06:35	22°♊18'05	
inferior conj	10016 May 31 20:42	16°♊38'04	3°15'19
minimum elong	10016 May 31 21:37	16°♊35'14	3°14'51
min. Earth dist.	10016 Jun 02 16:43	14°♊21'29	0.65746 AU
morning rise	10016 Jun 06 11:57	10°♊18'13	
direct	10016 Jun 12 22:41	7°♊33'15	
desc. node	10016 Jun 16 07:02	8°♊11'12	
morning max el	10016 Jun 26 02:45	15°♊22'07	26°46'31
	10016 Jul 08 02:41	0°♋	
	10016 Jul 26 23:47	0°♌	
morning set	10016 Jul 31 22:21	9°♌07'26	
max. Earth dist.	10016 Aug 05 02:42	17°♌16'57	1.34173 AU
asc. node	10016 Aug 09 04:59	25°♌37'58	
superior conj	10016 Aug 09 15:04	26°♌30'25	0°04'11
minimum elong	10016 Aug 09 14:52	26°♌29'19	0°03'51
behind sun begin	10016 Aug 09 09:15	26°♌00'07	
behind sun end	10016 Aug 09 20:28	26°♌58'33	
	10016 Aug 11 07:07	0°♍	
evening rise	10016 Aug 17 00:47	12°♍06'46	
	10016 Aug 26 05:16	0°♎	
evening max el	10016 Sep 05 17:21	14°♎25'33	21°19'09
desc. node	10016 Sep 12 05:23	19°♎08'36	
retrograde	10016 Sep 17 18:49	20°♎24'30	
evening set	10016 Sep 20 07:16	20°♎09'51	
inferior conj	10016 Sep 29 10:39	16°♎13'49	-4°44'43
minimum elong	10016 Sep 29 01:10	16°♎27'08	4°42'23
min. Earth dist.	10016 Sep 29 16:52	16°♎05'05	0.54629 AU
morning rise	10016 Oct 07 19:44	12°♎22'37	
direct	10016 Oct 11 14:56	11°♎51'25	
morning max el	10016 Oct 24 06:49	17°♎53'37	22°29'16
	10016 Nov 02 22:50	0°♏	
asc. node	10016 Nov 05 05:16	3°♏40'55	
morning set	10016 Nov 15 06:25	23°♏05'05	
	10016 Nov 18 12:12	0°♐	
superior conj	10016 Nov 22 07:24	8°♐08'09	1°39'01
minimum elong	10016 Nov 22 08:08	8°♐12'04	1°39'23
max. Earth dist.	10016 Nov 25 19:19	15°♐27'52	1.34042 AU
evening rise	10016 Nov 30 08:22	24°♐35'07	
	10016 Dec 03 04:22	0°♑	
desc. node	10016 Dec 09 03:38	10°♑42'03	
	10016 Dec 21 12:59	0°♒	
evening max el	10017 Jan 04 03:45	16°♒20'53	27°05'46
retrograde	10017 Jan 17 12:30	23°♒42'41	
evening set	10017 Jan 24 04:48	21°♒08'27	
min. Earth dist.	10017 Jan 28 03:30	17°♒21'12	0.65354 AU
inferior conj	10017 Jan 30 07:43	14°♒54'12	-0°37'12
minimum elong	10017 Jan 30 08:48	14°♒51'09	0°36'25
asc. node	10017 Feb 01 04:30	12°♒51'29	
morning rise	10017 Feb 05 14:09	9°♒21'00	
direct	10017 Feb 08 07:09	8°♒41'37	
morning max el	10017 Feb 14 16:45	12°♒04'07	18°03'01
	10017 Feb 27 09:12	0°♓	
morning set	10017 Mar 04 21:12	8°♓59'04	
desc. node	10017 Mar 07 03:38	12°♓41'34	
	10017 Mar 17 21:44	0°♈	
superior conj	10017 Mar 19 11:03	2°♈27'39	-1°22'45
minimum elong	10017 Mar 19 02:13	1°♈52'43	1°21'43
max. Earth dist.	10017 Mar 22 13:13	7°♈19'28	1.45482 AU
evening rise	10017 Apr 04 14:19	27°♈36'01	
	10017 Apr 06 03:38	0°♉	
greatest brilliancy	10017 Apr 17 20:51	17°♉51'43	-0.7m
	10017 Apr 26 14:57	0°♊	
evening max el	10017 Apr 29 14:34	3°♊21'26	19°34'00
asc. node	10017 Apr 30 02:44	3°♊51'26	
retrograde	10017 May 06 20:35	7°♊28'35	
evening set	10017 May 10 12:34	6°♊10'10	
inferior conj	10017 May 15 21:46	0°♊15'25	3°18'47
minimum elong	10017 May 15 21:30	0°♊16'19	3°18'25
	10017 May 16 02:25	30°℞♉	
min. Earth dist.	10017 May 17 02:48	28°♉39'26	0.67127 AU
morning rise	10017 May 21 06:05	23°♉55'48	
direct	10017 May 27 06:49	21°♉15'42	
desc. node	10017 Jun 03 04:00	23°♉55'19	
morning max el	10017 Jun 08 12:48	28°♉35'59	25°32'50
	10017 Jun 09 21:00	0°♊	
	10017 Jul 01 21:08	0°♋	
morning set	10017 Jul 14 14:37	21°♋34'17	
max. Earth dist.	10017 Jul 18 06:53	28°♋22'58	1.36017 AU
	10017 Jul 19 03:20	0°♌	
superior conj	10017 Jul 24 06:37	10°♌02'29	-0°27'13
minimum elong	10017 Jul 24 08:18	10°♌10'52	0°27'14
asc. node	10017 Jul 27 01:53	15°♌42'11	
evening rise	10017 Aug 01 07:09	26°♌23'23	
	10017 Aug 03 01:54	0°♍	
evening max el	10017 Aug 18 22:57	25°♍22'32	19°59'54
	10017 Aug 25 23:13	0°♎	
retrograde	10017 Aug 29 08:49	0°♎32'20	
desc. node	10017 Aug 30 02:37	0°♎30'51	
evening set	10017 Aug 31 06:36	0°♎22'42	
	10017 Sep 01 21:52	30°℞♍	
inferior conj	10017 Sep 09 06:33	26°♍22'50	-3°04'51
minimum elong	10017 Sep 08 22:22	26°♍35'10	3°02'01
min. Earth dist.	10017 Sep 11 02:34	25°♍16'35	0.55053 AU
morning rise	10017 Sep 17 12:47	22°♍09'18	
direct	10017 Sep 22 02:45	21°♍23'37	
morning max el	10017 Oct 05 18:56	28°♍06'52	24°16'15
	10017 Oct 07 16:18	0°♎	
asc. node	10017 Oct 23 02:09	22°♎30'57	
	10017 Oct 26 23:04	0°♏	
morning set	10017 Oct 30 18:13	7°♏53'29	
superior conj	10017 Nov 06 14:58	22°♏49'40	1°39'46
minimum elong	10017 Nov 06 14:31	22°♏47'14	1°40'05
max. Earth dist.	10017 Nov 08 19:10	27°♏32'30	1.32736 AU
	10017 Nov 09 22:44	0°♐	
evening rise	10017 Nov 14 00:57	8°♐30'53	
	10017 Nov 25 14:54	0°♑	
desc. node	10017 Nov 26 00:43	0°♑41'06	
evening max el	10017 Dec 17 15:55	29°♑36'59	27°29'13
	10017 Dec 18 01:42	0°♒	
retrograde	10017 Dec 31 08:24	6°♒57'08	
evening set	10018 Jan 07 07:48	4°♒27'03	
min. Earth dist.	10018 Jan 11 02:16	1°♒11'07	0.63643 AU
	10018 Jan 12 06:34	30°℞♑	
inferior conj	10018 Jan 13 17:40	28°♑30'04	-1°45'49
minimum elong	10018 Jan 13 21:03	28°♑21'27	1°44'03
asc. node	10018 Jan 19 01:37	23°♑54'50	
morning rise	10018 Jan 20 12:17	23°♑12'06	
direct	10018 Jan 22 21:59	22°♑43'48	
morning max el	10018 Jan 29 10:14	26°♑05'36	17°48'10
	10018 Feb 01 18:37	0°♒	
morning set	10018 Feb 14 22:01	21°♒11'24	
	10018 Feb 20 01:52	0°♓	
desc. node	10018 Feb 22 00:26	3°♓16'16	
superior conj	10018 Feb 27 13:12	12°♓25'43	-0°40'19
minimum elong	10018 Feb 27 08:51	12°♓08'00	0°39'32

max. Earth dist.	10018 Mar 05	08:14	21°♓45'42	1.44655 AU
	10018 Mar 10	13:54	0°♈	
evening rise	10018 Mar 15	01:50	6°♈57'12	
	10018 Mar 30	11:38	0°♉	
evening max el	10018 Apr 12	16:09	17°♉03'00	20°35'27
asc. node	10018 Apr 16	23:53	20°♉35'57	
retrograde	10018 Apr 20	19:16	21°♉47'13	
evening set	10018 Apr 24	20:36	20°♉13'09	
inferior conj	10018 Apr 30	03:38	14°♉05'22	3°09'50
minimum elong	10018 Apr 30	02:23	14°♉09'41	3°09'24
min. Earth dist.	10018 Apr 30	18:35	13°♉13'56	0.68055 AU
morning rise	10018 May 05	07:57	7°♉48'24	
direct	10018 May 10	20:08	5°♉21'47	
desc. node	10018 May 21	00:57	11°♉06'57	
morning max el	10018 May 21	22:16	11°♉59'39	24°06'07
	10018 Jun 05	08:28	0°♊	
	10018 Jun 24	16:04	0°♋	
morning set	10018 Jun 26	11:16	3°♋04'34	
max. Earth dist.	10018 Jun 30	04:33	9°♋36'08	1.38194 AU
superior conj	10018 Jul 07	10:00	22°♋56'56	-1°00'12
minimum elong	10018 Jul 07	13:57	23°♋15'46	0°59'55
	10018 Jul 11	01:36	0°♌	
asc. node	10018 Jul 13	22:49	5°♌40'11	
evening rise	10018 Jul 16	07:17	10°♌18'53	
	10018 Jul 27	03:49	0°♍	
evening max el	10018 Aug 01	17:40	7°♍04'41	19°01'17
retrograde	10018 Aug 10	12:33	11°♍27'03	
evening set	10018 Aug 12	09:53	11°♍15'44	
desc. node	10018 Aug 16	23:51	9°♍26'32	
inferior conj	10018 Aug 20	18:14	7°♍00'42	-1°10'05
minimum elong	10018 Aug 20	15:13	7°♍05'56	1°09'06
min. Earth dist.	10018 Aug 23	16:17	4°♍59'51	0.56351 AU
morning rise	10018 Aug 28	17:26	2°♍10'52	
direct	10018 Sep 03	02:40	1°♍02'44	
morning max el	10018 Sep 17	07:49	8°♍19'59	25°55'54
	10018 Oct 03	11:59	0°♎	
asc. node	10018 Oct 09	23:02	11°♎48'38	
morning set	10018 Oct 15	05:22	22°♎36'53	
	10018 Oct 18	14:58	0°♏	
superior conj	10018 Oct 22	01:37	7°♏37'12	1°34'32
minimum elong	10018 Oct 22	00:12	7°♏29'23	1°34'40
max. Earth dist.	10018 Oct 23	01:20	9°♏48'23	1.31885 AU
evening rise	10018 Oct 29	01:42	22°♏47'03	
	10018 Nov 01	14:47	0°♐	
desc. node	10018 Nov 12	21:52	20°♐12'29	
	10018 Nov 19	12:03	0°♑	
evening max el	10018 Nov 30	00:24	12°♑17'55	27°21'52
retrograde	10018 Dec 13	20:57	19°♑32'41	
evening set	10018 Dec 20	21:48	17°♑15'38	
min. Earth dist.	10018 Dec 24	14:44	14°♑25'06	0.61667 AU
inferior conj	10018 Dec 27	15:18	11°♑41'47	-2°59'25
minimum elong	10018 Dec 27	21:14	11°♑28'22	2°56'49
morning rise	10019 Jan 03	23:09	6°♑42'18	
asc. node	10019 Jan 05	22:43	6°♑21'42	
direct	10019 Jan 06	04:01	6°♑21'29	
morning max el	10019 Jan 13	02:45	9°♑52'11	17°51'18
	10019 Jan 26	09:17	0°♒	
morning set	10019 Jan 28	19:39	4°♒22'35	
superior conj	10019 Feb 08	16:21	23°♒35'50	0°01'34
minimum elong	10019 Feb 08	16:31	23°♒36'32	0°01'50
behind sun begin	10019 Feb 08	08:03	23°♒00'10	
behind sun end	10019 Feb 09	00:59	24°♒12'47	
desc. node	10019 Feb 08	21:18	23°♒57'01	
	10019 Feb 12	11:11	0°♓	

max. Earth dist.	10019 Feb 15	23:31	5°♓47'53	1.43190 AU
evening rise	10019 Feb 22	18:55	16°♓40'09	
	10019 Mar 03	12:15	0°♈	
	10019 Mar 25	18:30	0°♉	
evening max el	10019 Mar 26	12:16	0°♉45'51	21°48'13
asc. node	10019 Apr 03	21:05	6°♉08'55	
retrograde	10019 Apr 04	17:19	6°♉12'26	
evening set	10019 Apr 09	04:57	4°♉23'05	
	10019 Apr 13	02:38	30°℞♈	
inferior conj	10019 Apr 14	12:05	28°♈04'40	2°50'14
minimum elong	10019 Apr 14	10:10	28°♈11'21	2°49'40
min. Earth dist.	10019 Apr 14	14:03	27°♈57'48	0.68525 AU
morning rise	10019 Apr 19	15:12	21°♈51'59	
direct	10019 Apr 24	13:52	19°♈44'13	
morning max el	10019 May 04	09:06	25°♈31'22	22°36'22
desc. node	10019 May 07	21:51	29°♈22'38	
	10019 May 08	10:33	0°♉	
	10019 May 29	20:14	0°♊	
morning set	10019 Jun 07	07:17	13°♊26'43	
max. Earth dist.	10019 Jun 12	02:04	21°♊25'21	1.40475 AU
	10019 Jun 17	00:53	0°♋	
superior conj	10019 Jun 19	21:08	5°♋04'53	-1°31'53
minimum elong	10019 Jun 20	03:01	5°♋31'31	1°31'33
evening rise	10019 Jun 29	22:01	23°♋45'31	
asc. node	10019 Jun 30	19:49	25°♋28'25	
	10019 Jul 03	05:49	0°♌	
evening max el	10019 Jul 15	22:36	19°♌28'15	18°23'40
retrograde	10019 Jul 23	11:06	23°♌14'40	
evening set	10019 Jul 25	14:36	22°♌57'03	
inferior conj	10019 Aug 02	03:29	18°♌22'12	0°31'13
minimum elong	10019 Aug 02	04:34	18°♌20'00	0°30'30
desc. node	10019 Aug 03	21:02	16°♌57'18	
min. Earth dist.	10019 Aug 05	12:02	15°♌39'46	0.58289 AU
morning rise	10019 Aug 09	15:01	12°♌56'08	
direct	10019 Aug 15	17:24	11°♌18'37	
morning max el	10019 Aug 30	02:28	19°♌00'38	27°11'14
	10019 Sep 08	09:38	0°♍	
	10019 Sep 26	02:49	0°♎	
asc. node	10019 Sep 26	19:55	1°♎26'26	
morning set	10019 Sep 29	14:12	7°♎10'27	
superior conj	10019 Oct 06	13:24	22°♎24'44	1°23'42
minimum elong	10019 Oct 06	11:22	22°♎13'23	1°23'35
max. Earth dist.	10019 Oct 06	10:35	22°♎09'04	1.31507 AU
	10019 Oct 09	23:31	0°♏	
evening rise	10019 Oct 13	08:05	7°♏16'47	
	10019 Oct 25	02:39	0°♐	
desc. node	10019 Oct 30	19:01	9°♐05'05	
evening max el	10019 Nov 12	02:39	24°♐12'34	26°40'35
	10019 Nov 20	06:10	0°♑	
retrograde	10019 Nov 26	01:00	1°♑20'31	
	10019 Dec 01	16:37	30°℞♐	
evening set	10019 Dec 02	18:42	29°♐26'49	
min. Earth dist.	10019 Dec 06	16:40	26°♐50'28	0.59554 AU
inferior conj	10019 Dec 09	21:06	24°♐20'04	-4°12'12
minimum elong	10019 Dec 10	04:50	24°♐04'49	4°09'32
morning rise	10019 Dec 17	17:35	19°♐41'48	
direct	10019 Dec 19	21:09	19°♐25'01	
asc. node	10019 Dec 23	19:48	20°♐24'39	
morning max el	10019 Dec 27	14:40	23°♐13'56	18°13'38
	10020 Jan 01	23:46	0°♑	
morning set	10020 Jan 12	08:04	18°♑14'24	
	10020 Jan 18	14:13	0°♒	
superior conj	10020 Jan 21	19:05	5°♒52'07	0°37'20
minimum elong	10020 Jan 21	21:41	6°♒03'55	0°37'17

desc. node	10020 Jan 26	18:09	14°♒39'43	
max. Earth dist.	10020 Jan 29	09:40	19°♒11'55	1.41264 AU
evening rise	10020 Feb 03	05:15	27°♒11'33	
	10020 Feb 04	22:57	0°♓	
	10020 Feb 25	04:33	0°♈	
evening max el	10020 Mar 08	04:15	14°♈30'45	23°07'37
retrograde	10020 Mar 18	13:00	20°♈38'34	
asc. node	10020 Mar 20	18:18	20°♈14'37	
evening set	10020 Mar 23	11:59	18°♈34'45	
inferior conj	10020 Mar 28	21:06	12°♈08'55	2°20'58
minimum elong	10020 Mar 28	18:54	12°♈16'31	2°20'18
min. Earth dist.	10020 Mar 28	10:53	12°♈44'13	0.68556 AU
morning rise	10020 Apr 03	01:43	6°♈01'50	
direct	10020 Apr 07	10:51	4°♈15'36	
morning max el	10020 Apr 16	00:26	9°♈12'04	21°12'00
desc. node	10020 Apr 23	18:41	18°♈24'03	
	10020 May 02	02:17	0°♉	
morning set	10020 May 17	00:39	22°♉36'28	
	10020 May 21	16:07	0°♊	
max. Earth dist.	10020 May 24	04:51	4°♊06'30	1.42580 AU
superior conj	10020 May 31	11:20	16°♊15'46	-1°57'50
minimum elong	10020 May 31	17:18	16°♊41'15	1°57'48
	10020 Jun 08	07:42	0°♋	
evening rise	10020 Jun 11	23:06	6°♋32'25	
asc. node	10020 Jun 16	16:50	15°♋01'43	
	10020 Jun 26	06:07	0°♌	
evening max el	10020 Jun 28	09:46	2°♌23'36	18°06'11
retrograde	10020 Jul 05	03:08	5°♌49'20	
evening set	10020 Jul 07	14:30	5°♌21'41	
inferior conj	10020 Jul 14	09:27	0°♌26'37	1°47'12
minimum elong	10020 Jul 14	12:11	0°♌20'08	1°45'59
	10020 Jul 14	20:42	30°℞♋	
min. Earth dist.	10020 Jul 17	15:20	27°♋24'25	0.60531 AU
desc. node	10020 Jul 20	18:11	24°♋54'48	
morning rise	10020 Jul 21	07:05	24°♋33'27	
direct	10020 Jul 27	20:45	22°♋26'24	
	10020 Aug 10	18:29	0°♌	
morning max el	10020 Aug 11	03:59	0°♌23'17	27°51'18
	10020 Sep 01	12:33	0°♍	
morning set	10020 Sep 12	18:54	21°♍29'19	
asc. node	10020 Sep 12	16:49	21°♍18'27	
	10020 Sep 16	18:49	0°♎	
max. Earth dist.	10020 Sep 18	19:24	4°♎25'58	1.31614 AU
superior conj	10020 Sep 20	00:31	7°♎06'50	1°07'35
minimum elong	10020 Sep 19	22:17	6°♎54'26	1°07'15
evening rise	10020 Sep 26	18:00	21°♎54'17	
	10020 Sep 30	14:55	0°♏	
desc. node	10020 Oct 16	16:12	27°♏03'55	
	10020 Oct 18	23:55	0°♐	
evening max el	10020 Oct 23	21:03	5°♐16'39	25°27'31
retrograde	10020 Nov 06	18:31	12°♐16'39	
evening set	10020 Nov 12	17:45	10°♐54'50	
min. Earth dist.	10020 Nov 17	09:18	8°♐16'28	0.57518 AU
inferior conj	10020 Nov 20	07:51	6°♐15'54	-5°12'45
minimum elong	10020 Nov 20	14:37	6°♐04'18	5°11'11
morning rise	10020 Nov 28	13:47	2°♐00'00	
direct	10020 Nov 30	21:21	1°♐43'47	
asc. node	10020 Dec 09	16:50	5°♐57'02	
morning max el	10020 Dec 09	18:11	6°♐00'16	18°57'03
	10020 Dec 24	23:17	0°♑	
morning set	10020 Dec 26	06:39	2°♑33'49	
superior conj	10021 Jan 03	16:49	19°♑01'58	1°04'54
minimum elong	10021 Jan 03	19:58	19°♑17'03	1°04'53
	10021 Jan 09	14:36	0°♒	

max. Earth dist.	10021 Jan 10	16:24	1°♒55'35	1.39098 AU
desc. node	10021 Jan 12	15:04	5°♒21'22	
evening rise	10021 Jan 14	13:13	8°♒40'46	
	10021 Jan 27	20:59	0°♓	
evening max el	10021 Feb 18	18:11	28°♓19'26	24°27'23
	10021 Feb 20	12:43	0°♈	
retrograde	10021 Mar 02	05:03	5°♈01'21	
evening set	10021 Mar 07	16:10	2°♈44'31	
asc. node	10021 Mar 07	15:29	2°♈45'58	
	10021 Mar 10	07:34	30°℞♓	
min. Earth dist.	10021 Mar 12	06:49	27°♓28'58	0.68172 AU
inferior conj	10021 Mar 13	04:50	26°♓15'13	1°42'33
minimum elong	10021 Mar 13	02:48	26°♓22'01	1°41'56
morning rise	10021 Mar 18	13:33	20°♓15'15	
direct	10021 Mar 22	09:50	18°♓50'43	
morning max el	10021 Mar 29	23:04	23°♓04'49	19°59'06
	10021 Apr 04	20:53	0°♈	
desc. node	10021 Apr 10	15:31	7°♈59'02	
	10021 Apr 25	08:09	0°♉	
morning set	10021 Apr 26	00:22	1°♉02'24	
max. Earth dist.	10021 May 06	15:12	17°♉39'34	1.44254 AU
superior conj	10021 May 12	01:20	26°♉23'35	-2°11'56
minimum elong	10021 May 12	03:24	26°♉32'00	2°12'14
	10021 May 14	06:13	0°♊	
evening rise	10021 May 25	05:47	18°♊28'52	
	10021 Jun 01	00:01	0°♋	
asc. node	10021 Jun 03	13:53	4°♋14'22	
evening max el	10021 Jun 11	23:24	15°♋40'50	18°07'46
retrograde	10021 Jun 18	08:36	19°♋01'09	
evening set	10021 Jun 21	03:48	18°♋20'53	
inferior conj	10021 Jun 27	08:27	13°♋06'50	2°37'41
minimum elong	10021 Jun 27	11:03	12°♋59'51	2°36'42
min. Earth dist.	10021 Jun 30	03:28	10°♋08'24	0.62764 AU
morning rise	10021 Jul 03	16:32	6°♋57'02	
desc. node	10021 Jul 07	15:17	4°♋52'10	
direct	10021 Jul 10	10:02	4°♋27'07	
morning max el	10021 Jul 24	11:02	12°♋29'32	27°52'55
	10021 Aug 07	09:26	0°♌	
	10021 Aug 24	23:22	0°♍	
morning set	10021 Aug 27	17:17	5°♍27'08	
asc. node	10021 Aug 30	13:39	11°♍19'07	
max. Earth dist.	10021 Sep 01	23:56	16°♍28'11	1.32219 AU
superior conj	10021 Sep 04	09:03	21°♍37'12	0°46'30
minimum elong	10021 Sep 04	07:07	21°♍26'41	0°46'01
	10021 Sep 08	04:56	0°♎	
evening rise	10021 Sep 11	05:25	6°♎33'11	
	10021 Sep 23	10:23	0°♏	
desc. node	10021 Oct 03	13:26	13°♏47'27	
evening max el	10021 Oct 05	08:48	15°♏37'59	23°52'35
retrograde	10021 Oct 18	23:14	22°♏25'53	
evening set	10021 Oct 23	16:04	21°♏37'37	
min. Earth dist.	10021 Oct 29	19:13	18°♏38'43	0.55840 AU
inferior conj	10021 Oct 31	22:03	17°♏22'11	-5°42'51
minimum elong	10021 Oct 31	23:10	17°♏20'30	5°42'33
morning rise	10021 Nov 09	08:13	13°♏26'11	
direct	10021 Nov 12	02:11	13°♏07'04	
morning max el	10021 Nov 22	09:37	17°♏59'42	20°03'08
asc. node	10021 Nov 26	13:49	22°♏43'01	
	10021 Dec 01	10:33	0°♐	
morning set	10021 Dec 10	11:53	17°♐09'37	
	10021 Dec 16	18:43	0°♑	
superior conj	10021 Dec 18	04:37	2°♑50'40	1°24'09
minimum elong	10021 Dec 18	07:11	3°♑03'30	1°24'18
max. Earth dist.	10021 Dec 23	23:08	14°♑05'02	1.36932 AU

evening rise	10021 Dec 27 17:29	21°♑02'05	
desc. node	10021 Dec 30 12:01	25°♑57'20	
	10022 Jan 01 20:27	0°♒	
	10022 Jan 21 19:55	0°♓	
evening max el	10022 Feb 01 07:31	12°♓08'48	25°40'45
retrograde	10022 Feb 13 16:26	19°♓14'49	
evening set	10022 Feb 19 15:54	16°♓47'29	
asc. node	10022 Feb 22 12:39	13°♓53'10	
min. Earth dist.	10022 Feb 23 23:34	12°♓06'54	0.67377 AU
inferior conj	10022 Feb 25 09:21	10°♓19'31	0°55'11
minimum elong	10022 Feb 25 08:02	10°♓23'43	0°54'51
morning rise	10022 Mar 03 00:40	4°♓28'25	
direct	10022 Mar 06 09:10	3°♓23'57	
morning max el	10022 Mar 13 05:34	7°♓08'13	19°01'08
greatest brilliancy	10022 Mar 26 19:00	25°♓21'12	-0.8m
desc. node	10022 Mar 28 12:19	27°♓58'31	
	10022 Mar 29 20:02	0°♈	
morning set	10022 Apr 05 04:45	9°♈49'59	
	10022 Apr 18 03:29	0°♉	
max. Earth dist.	10022 Apr 19 07:36	1°♉50'14	1.45303 AU
superior conj	10022 Apr 21 17:12	5°♉36'49	-2°07'58
minimum elong	10022 Apr 21 12:01	5°♉16'22	2°07'59
evening rise	10022 May 06 13:51	29°♉27'09	
	10022 May 06 21:54	0°♊	
asc. node	10022 May 21 10:57	22°♊59'15	
evening max el	10022 May 26 12:20	29°♊11'37	18°27'40
	10022 May 27 08:45	0°♋	
retrograde	10022 Jun 01 23:08	2°♋40'39	
evening set	10022 Jun 05 02:02	1°♋46'15	
	10022 Jun 07 09:51	30°℞♊	
inferior conj	10022 Jun 10 20:23	26°♊15'00	3°06'41
minimum elong	10022 Jun 10 21:59	26°♊10'12	3°06'04
min. Earth dist.	10022 Jun 13 00:59	23°♊39'22	0.64759 AU
morning rise	10022 Jun 16 16:58	19°♊56'57	
direct	10022 Jun 23 07:34	17°♊14'29	
desc. node	10022 Jun 24 12:20	17°♊19'19	
morning max el	10022 Jul 06 21:15	25°♊12'06	27°19'15
	10022 Jul 11 06:10	0°♋	
	10022 Jul 31 21:11	0°♌	
morning set	10022 Aug 11 06:48	18°♌57'21	
max. Earth dist.	10022 Aug 15 20:35	28°♌07'44	1.33321 AU
	10022 Aug 16 18:18	0°♍	
asc. node	10022 Aug 17 10:30	1°♍24'23	
superior conj	10022 Aug 19 12:58	5°♍50'16	0°20'48
minimum elong	10022 Aug 19 11:57	5°♍44'51	0°20'23
evening rise	10022 Aug 26 16:31	21°♍08'09	
	10022 Aug 30 23:36	0°♎	
evening max el	10022 Sep 16 20:54	25°♎46'16	22°12'31
desc. node	10022 Sep 20 10:38	28°♎48'37	
	10022 Sep 22 06:32	0°♏	
retrograde	10022 Sep 29 16:20	2°♏09'05	
evening set	10022 Oct 02 21:32	1°♏46'07	
	10022 Oct 07 15:41	30°℞♎	
min. Earth dist.	10022 Oct 11 02:33	28°♎09'34	0.54820 AU
inferior conj	10022 Oct 11 19:40	27°♎45'31	-5°22'32
minimum elong	10022 Oct 11 12:49	27°♎55'08	5°21'22
morning rise	10022 Oct 20 05:42	23°♎58'24	
direct	10022 Oct 23 14:47	23°♎33'00	
morning max el	10022 Nov 04 11:36	29°♎08'44	21°31'05
	10022 Nov 05 08:45	0°♏	
asc. node	10022 Nov 13 10:45	10°♏27'26	
	10022 Nov 23 23:09	0°♐	
morning set	10022 Nov 24 21:12	1°♐54'36	
superior conj	10022 Dec 02 02:30	17°♐06'59	1°35'37
minimum elong	10022 Dec 02 03:57	17°♐14'32	1°35'57
max. Earth dist.	10022 Dec 06 10:20	25°♐57'51	1.34988 AU
	10022 Dec 08 11:21	0°♑	
evening rise	10022 Dec 10 14:41	4°♑07'07	
desc. node	10022 Dec 17 09:01	16°♑23'17	
	10022 Dec 25 17:08	0°♒	
evening max el	10023 Jan 14 20:51	25°♒52'38	26°40'26
	10023 Jan 19 17:50	0°♓	
retrograde	10023 Jan 27 22:32	3°♓12'04	
evening set	10023 Feb 03 09:22	0°♓38'22	
	10023 Feb 04 03:28	30°℞♒	
min. Earth dist.	10023 Feb 07 10:58	26°♒32'15	0.66193 AU
inferior conj	10023 Feb 09 08:35	24°♒17'16	-0°01'00
minimum elong	10023 Feb 09 08:36	24°♒17'13	0°00'44
transit middle	10023 Feb 09 08:36	24°♒17'13	0°00'44
transit begin	10023 Feb 09 05:41	24°♒25'54	
transit end	10023 Feb 09 11:32	24°♒08'34	
asc. node	10023 Feb 09 09:49	24°♒13'39	
morning rise	10023 Feb 15 08:54	18°♒37'05	
direct	10023 Feb 18 07:01	17°♒49'41	
morning max el	10023 Feb 24 18:27	21°♒16'53	18°19'27
	10023 Mar 03 16:25	0°♓	
desc. node	10023 Mar 15 09:08	18°♓15'38	
morning set	10023 Mar 16 09:25	19°♓52'44	
	10023 Mar 22 17:54	0°♈	
superior conj	10023 Mar 31 23:03	14°♈30'14	-1°43'50
minimum elong	10023 Mar 31 13:32	13°♈52'59	1°43'04
max. Earth dist.	10023 Apr 02 02:56	16°♈19'19	1.45626 AU
	10023 Apr 10 21:01	0°♉	
evening rise	10023 Apr 16 22:22	9°♉28'53	
greatest brilliancy	10023 Apr 27 13:07	26°♉02'07	-0.8m
	10023 Apr 30 03:53	0°♊	
asc. node	10023 May 08 08:04	11°♊06'58	
evening max el	10023 May 09 22:02	12°♊49'21	19°05'03
retrograde	10023 May 16 18:59	16°♊39'44	
evening set	10023 May 20 05:55	15°♊30'20	
inferior conj	10023 May 25 17:34	9°♊43'37	3°18'28
minimum elong	10023 May 25 17:57	9°♊42'22	3°18'04
min. Earth dist.	10023 May 27 07:04	7°♊43'32	0.66385 AU
morning rise	10023 May 31 05:28	3°♊23'13	
direct	10023 Jun 06 12:12	0°♊39'16	
desc. node	10023 Jun 11 09:22	1°♊59'58	
morning max el	10023 Jun 19 08:01	8°♊18'25	26°17'24
	10023 Jul 06 06:32	0°♋	
	10023 Jul 24 08:12	0°♌	
morning set	10023 Jul 25 08:02	1°♌50'33	
max. Earth dist.	10023 Jul 29 06:39	9°♌22'10	1.34907 AU
superior conj	10023 Aug 03 09:50	19°♌39'04	-0°08'51
minimum elong	10023 Aug 03 10:21	19°♌41'45	0°09'03
behind sun begin	10023 Aug 03 05:23	19°♌16'19	
behind sun end	10023 Aug 03 15:19	20°♌07'13	
asc. node	10023 Aug 04 07:23	21°♌29'49	
	10023 Aug 08 09:23	0°♍	
evening rise	10023 Aug 11 01:13	5°♍32'51	
	10023 Aug 24 12:53	0°♎	
evening max el	10023 Aug 29 18:38	6°♎18'24	20°43'00
desc. node	10023 Sep 07 07:51	11°♎36'59	
retrograde	10023 Sep 10 04:20	11°♎57'46	
evening set	10023 Sep 12 08:06	11°♎46'29	
inferior conj	10023 Sep 21 11:55	7°♎50'17	-4°06'25
minimum elong	10023 Sep 21 02:09	8°♎04'18	4°03'30
min. Earth dist.	10023 Sep 22 11:02	7°♎17'09	0.54689 AU
morning rise	10023 Sep 29 20:04	3°♎51'43	
direct	10023 Oct 03 22:48	3°♎15'25	
morning max el	10023 Oct 17 03:00	9°♎36'16	23°14'40

asc. node	10023 Oct 31 07:40	28°♎56'43	
	10023 Oct 31 21:53	0°♏	
morning set	10023 Nov 09 08:35	16°♏43'05	
	10023 Nov 15 12:25	0°♐	
superior conj	10023 Nov 16 07:18	1°♐41'44	1°40'06
minimum elong	10023 Nov 16 07:31	1°♐42'54	1°40'28
max. Earth dist.	10023 Nov 19 05:16	7°♐54'07	1.33422 AU
evening rise	10023 Nov 24 01:11	17°♐47'03	
	10023 Nov 30 12:00	0°♑	
desc. node	10023 Dec 04 06:04	6°♑34'06	
	10023 Dec 20 00:46	0°♒	
evening max el	10023 Dec 28 09:48	9°♒22'18	27°19'13
retrograde	10024 Jan 10 22:39	16°♒45'09	
evening set	10024 Jan 17 18:28	14°♒11'26	
min. Earth dist.	10024 Jan 21 15:01	10°♒38'04	0.64654 AU
inferior conj	10024 Jan 24 00:13	8°♒03'31	-1°05'28
minimum elong	10024 Jan 24 02:13	7°♒58'06	1°04'17
asc. node	10024 Jan 27 06:58	4°♒45'35	
morning rise	10024 Jan 30 11:40	2°♒36'37	
direct	10024 Feb 02 01:10	2°♒02'35	
morning max el	10024 Feb 08 11:10	5°♒23'50	17°54'38
	10024 Feb 24 23:41	0°♓	
morning set	10024 Feb 25 19:23	1°♓22'15	
desc. node	10024 Mar 01 05:57	8°♓45'25	
superior conj	10024 Mar 10 13:36	23°♓54'32	-1°05'15
minimum elong	10024 Mar 10 06:23	23°♓25'42	1°04'14
	10024 Mar 14 09:41	0°♈	
max. Earth dist.	10024 Mar 14 22:22	0°♈49'59	1.45209 AU
evening rise	10024 Mar 26 13:44	18°♈54'48	
	10024 Apr 02 20:07	0°♉	
greatest brilliancy	10024 Apr 10 08:12	11°♉11'40	-0.6m
evening max el	10024 Apr 22 02:51	26°♉30'41	19°58'27
asc. node	10024 Apr 24 05:12	28°♉26'17	
	10024 Apr 26 12:30	0°♊	
retrograde	10024 Apr 29 17:19	0°♊52'58	
	10024 May 02 17:53	30°℞♉	
evening set	10024 May 03 13:02	29°♉28'07	
inferior conj	10024 May 08 21:02	23°♉27'38	3°16'23
minimum elong	10024 May 08 20:18	23°♉30'04	3°16'00
min. Earth dist.	10024 May 09 20:01	22°♉10'05	0.67579 AU
morning rise	10024 May 14 03:16	17°♉08'37	
direct	10024 May 19 22:53	14°♉33'10	
desc. node	10024 May 28 06:21	18°♉24'51	
morning max el	10024 May 31 17:46	21°♉37'37	24°56'48
	10024 Jun 08 00:17	0°♊	
	10024 Jun 28 12:31	0°♋	
morning set	10024 Jul 06 16:38	13°♋55'22	
max. Earth dist.	10024 Jul 10 06:55	20°♋25'36	1.36916 AU
	10024 Jul 15 08:29	0°♌	
superior conj	10024 Jul 16 20:41	2°♌56'20	-0°41'10
minimum elong	10024 Jul 16 23:18	3°♌09'10	0°41'02
asc. node	10024 Jul 21 04:18	11°♌31'50	
evening rise	10024 Jul 25 05:18	19°♌41'13	
	10024 Jul 30 11:31	0°♍	
evening max el	10024 Aug 11 06:07	17°♍34'58	19°32'21
retrograde	10024 Aug 20 22:47	22°♍23'15	
evening set	10024 Aug 22 18:58	22°♍13'37	
desc. node	10024 Aug 24 05:05	21°♍53'43	
inferior conj	10024 Aug 31 13:20	18°♍08'45	-2°15'55
minimum elong	10024 Aug 31 07:14	18°♍18'28	2°13'44
min. Earth dist.	10024 Sep 02 22:32	16°♍38'01	0.55510 AU
morning rise	10024 Sep 08 17:08	13°♍40'24	
direct	10024 Sep 13 15:30	12°♍45'52	
morning max el	10024 Sep 27 14:31	19°♍45'27	25°00'36
	10024 Oct 06 07:13	0°♎	
asc. node	10024 Oct 17 04:34	17°♎59'31	
	10024 Oct 23 03:27	0°♏	
morning set	10024 Oct 23 20:17	1°♏29'37	
superior conj	10024 Oct 30 16:25	16°♏26'35	1°38'15
minimum elong	10024 Oct 30 15:31	16°♏21'41	1°38'31
max. Earth dist.	10024 Nov 01 07:55	20°♏02'52	1.32310 AU
	10024 Nov 05 23:48	0°♐	
evening rise	10024 Nov 06 21:34	1°♐52'30	
desc. node	10024 Nov 20 03:10	26°♐22'25	
	10024 Nov 22 09:16	0°♑	
evening max el	10024 Dec 09 20:46	22°♑25'19	27°30'19
retrograde	10024 Dec 23 15:47	29°♑43'56	
evening set	10024 Dec 30 16:23	27°♑18'27	
min. Earth dist.	10025 Jan 03 09:46	24°♑14'01	0.62818 AU
inferior conj	10025 Jan 06 05:22	21°♑30'22	-2°16'42
minimum elong	10025 Jan 06 09:51	21°♑19'30	2°14'32
morning rise	10025 Jan 13 05:33	16°♑19'41	
asc. node	10025 Jan 13 04:06	16°♑20'58	
direct	10025 Jan 15 12:44	15°♑55'05	
morning max el	10025 Jan 22 04:37	19°♑19'58	17°47'14
	10025 Jan 30 01:23	0°♒	
morning set	10025 Feb 07 05:52	14°♒02'05	
desc. node	10025 Feb 16 02:46	29°♒22'59	
	10025 Feb 16 11:31	0°♓	
superior conj	10025 Feb 19 02:03	4°♓22'21	-0°22'06
minimum elong	10025 Feb 18 23:49	4°♓13'03	0°21'31
max. Earth dist.	10025 Feb 25 15:41	15°♓06'29	1.44100 AU
evening rise	10025 Mar 06 01:45	28°♓20'50	
	10025 Mar 07 03:31	0°♈	
	10025 Mar 27 15:39	0°♉	
evening max el	10025 Apr 05 02:09	10°♉13'15	21°05'18
asc. node	10025 Apr 11 02:24	14°♉42'32	
retrograde	10025 Apr 13 15:51	15°♉14'55	
evening set	10025 Apr 17 21:25	13°♉34'26	
inferior conj	10025 Apr 23 04:16	7°♉22'05	3°02'44
minimum elong	10025 Apr 23 02:41	7°♉27'34	3°02'15
min. Earth dist.	10025 Apr 23 13:40	6°♉49'28	0.68314 AU
morning rise	10025 Apr 28 07:44	1°♉06'46	
	10025 Apr 29 18:19	30°℞♈	
direct	10025 May 03 14:22	28°♈47'23	
	10025 May 07 19:33	0°♉	
morning max el	10025 May 14 03:15	5°♉04'00	23°27'42
desc. node	10025 May 15 03:16	6°♉06'08	
	10025 Jun 02 07:58	0°♊	
morning set	10025 Jun 18 03:25	24°♊58'28	
	10025 Jun 21 02:02	0°♋	
max. Earth dist.	10025 Jun 22 03:28	1°♋50'30	1.39172 AU
superior conj	10025 Jun 29 17:48	15°♋33'15	-1°14'00
minimum elong	10025 Jun 29 22:41	15°♋56'00	1°13'40
	10025 Jul 07 07:24	0°♌	
asc. node	10025 Jul 08 01:16	1°♌26'41	
evening rise	10025 Jul 09 01:54	3°♌26'04	
evening max el	10025 Jul 25 05:48	29°♌36'57	18°42'46
	10025 Jul 25 15:20	0°♍	
retrograde	10025 Aug 02 10:09	3°♍41'48	
evening set	10025 Aug 04 09:53	3°♍28'11	
desc. node	10025 Aug 11 02:17	0°♍02'53	
	10025 Aug 11 03:54	30°℞♌	
inferior conj	10025 Aug 12 10:01	29°♌05'01	-0°24'24
minimum elong	10025 Aug 12 09:02	29°♌06'51	0°24'16
min. Earth dist.	10025 Aug 15 14:29	26°♌44'22	0.57122 AU
morning rise	10025 Aug 20 04:46	23°♌59'29	
direct	10025 Aug 25 22:04	22°♌39'14	

morning max el	10025 Sep 09 05:17	0°♍07'33	26°31'41
	10025 Sep 09 02:09	0°♍	
	10025 Sep 30 04:24	0°♎	
asc. node	10025 Oct 04 01:27	7°♎27'06	
morning set	10025 Oct 08 06:41	16°♎09'54	
	10025 Oct 14 14:15	0°♏	
superior conj	10025 Oct 15 03:48	1°♏15'19	1°30'36
minimum elong	10025 Oct 15 02:04	1°♏05'44	1°30'38
max. Earth dist.	10025 Oct 15 15:59	2°♏23'01	1.31670 AU
evening rise	10025 Oct 22 01:03	16°♏16'06	
	10025 Oct 28 21:52	0°♐	
desc. node	10025 Nov 07 00:19	15°♐39'10	
	10025 Nov 17 13:19	0°♑	
evening max el	10025 Nov 22 03:12	4°♑48'53	27°08'34
retrograde	10025 Dec 06 00:38	11°♑59'56	
evening set	10025 Dec 12 23:37	9°♑51'57	
min. Earth dist.	10025 Dec 16 17:48	7°♑08'57	0.60777 AU
inferior conj	10025 Dec 19 20:43	4°♑29'27	-3°30'55
minimum elong	10025 Dec 20 03:36	4°♑14'45	3°28'09
	10025 Dec 26 09:12	30°℞♐	
morning rise	10025 Dec 27 10:07	29°♐38'19	
direct	10025 Dec 29 14:00	29°♐19'32	
asc. node	10025 Dec 31 01:12	29°♐28'30	
	10026 Jan 01 16:33	0°♑	
morning max el	10026 Jan 05 19:33	2°♑56'52	17°58'18
morning set	10026 Jan 21 10:26	27°♑32'38	
	10026 Jan 22 18:28	0°♒	
superior conj	10026 Jan 31 15:37	16°♒01'27	0°17'40
minimum elong	10026 Jan 31 17:05	16°♒07'54	0°17'46
desc. node	10026 Feb 02 23:38	20°♒04'54	
max. Earth dist.	10026 Feb 08 05:13	28°♒55'08	1.42422 AU
	10026 Feb 08 20:55	0°♓	
evening rise	10026 Feb 14 01:10	8°♓22'15	
	10026 Feb 28 07:23	0°♈	
evening max el	10026 Mar 18 20:24	23°♈57'05	22°21'34
retrograde	10026 Mar 28 12:56	29°♈41'01	
asc. node	10026 Mar 28 23:37	29°♈40'03	
evening set	10026 Apr 02 05:24	27°♈45'16	
inferior conj	10026 Apr 07 13:10	21°♈23'29	2°38'56
minimum elong	10026 Apr 07 11:05	21°♈30'45	2°38'20
min. Earth dist.	10026 Apr 07 09:52	21°♈34'59	0.68596 AU
morning rise	10026 Apr 12 16:37	15°♈13'16	
direct	10026 Apr 17 09:34	13°♈14'28	
morning max el	10026 Apr 26 15:32	18°♈38'49	21°59'26
desc. node	10026 May 02 00:09	24°♈42'52	
	10026 May 06 02:19	0°♉	
	10026 May 26 11:17	0°♊	
morning set	10026 May 29 11:53	4°♊48'49	
max. Earth dist.	10026 Jun 04 03:22	14°♊03'27	1.41411 AU
superior conj	10026 Jun 11 20:36	27°♊18'26	-1°43'54
minimum elong	10026 Jun 12 02:53	27°♊46'08	1°43'40
	10026 Jun 13 09:02	0°♋	
evening rise	10026 Jun 22 11:24	16°♋37'32	
asc. node	10026 Jun 24 22:16	21°♋09'25	
	10026 Jun 29 20:57	0°♌	
evening max el	10026 Jul 08 13:51	12°♌15'23	18°13'47
retrograde	10026 Jul 15 16:45	15°♌51'11	
evening set	10026 Jul 17 23:36	15°♌29'38	
inferior conj	10026 Jul 25 04:26	10°♌45'42	1°06'42
minimum elong	10026 Jul 25 06:30	10°♌41'12	1°05'38
min. Earth dist.	10026 Jul 28 12:59	7°♌52'17	0.59226 AU
desc. node	10026 Jul 28 23:28	7°♌31'01	
morning rise	10026 Aug 01 10:11	5°♌06'53	
direct	10026 Aug 07 18:07	3°♌16'49	

morning max el	10026 Aug 22 02:58	11°♌05'29	27°33'00
	10026 Sep 05 20:31	0°♍	
asc. node	10026 Sep 20 22:19	27°♍11'49	
	10026 Sep 22 06:44	0°♎	
morning set	10026 Sep 22 14:00	0°♎38'03	
max. Earth dist.	10026 Sep 29 01:43	14°♎44'34	1.31501 AU
superior conj	10026 Sep 29 15:30	16°♎01'09	1°17'30
minimum elong	10026 Sep 29 13:19	15°♎49'01	1°17'16
	10026 Oct 05 23:53	0°♏	
evening rise	10026 Oct 06 09:12	0°♏49'58	
	10026 Oct 22 01:48	0°♐	
desc. node	10026 Oct 24 21:29	4°♐11'05	
evening max el	10026 Nov 04 02:09	16°♐21'36	26°12'52
retrograde	10026 Nov 18 00:03	23°♐25'51	
evening set	10026 Nov 24 11:42	21°♐44'44	
min. Earth dist.	10026 Nov 28 15:11	19°♐10'02	0.58671 AU
inferior conj	10026 Dec 01 18:41	16°♐50'23	-4°40'17
minimum elong	10026 Dec 02 02:29	16°♐35'54	4°37'57
morning rise	10026 Dec 09 19:46	12°♐21'45	
direct	10026 Dec 12 00:28	12°♐05'32	
asc. node	10026 Dec 17 22:14	14°♐10'48	
morning max el	10026 Dec 20 04:18	16°♐04'33	18°29'28
	10026 Dec 29 22:26	0°♑	
morning set	10027 Jan 05 03:37	11°♑37'33	
superior conj	10027 Jan 14 03:02	28°♑42'25	0°50'04
minimum elong	10027 Jan 14 06:04	28°♑56'26	0°50'00
	10027 Jan 14 19:51	0°♒	
desc. node	10027 Jan 20 20:31	10°♒47'42	
max. Earth dist.	10027 Jan 21 13:56	12°♒03'15	1.40357 AU
evening rise	10027 Jan 25 20:30	19°♒17'43	
	10027 Feb 01 11:50	0°♓	
	10027 Feb 22 15:15	0°♈	
evening max el	10027 Mar 01 11:07	7°♈43'18	23°41'53
retrograde	10027 Mar 12 07:12	14°♈06'49	
asc. node	10027 Mar 15 20:48	13°♈06'13	
evening set	10027 Mar 17 11:24	11°♈56'55	
inferior conj	10027 Mar 22 21:50	5°♈29'01	2°05'46
minimum elong	10027 Mar 22 19:39	5°♈36'30	2°05'07
min. Earth dist.	10027 Mar 22 06:29	6°♈21'31	0.68440 AU
	10027 Mar 27 11:22	30°℞♓	
morning rise	10027 Mar 28 03:54	29°♓25'02	
direct	10027 Apr 01 07:24	27°♓48'19	
	10027 Apr 06 15:49	0°♈	
morning max el	10027 Apr 09 09:54	2°♈25'21	20°39'28
desc. node	10027 Apr 18 20:59	14°♈00'03	
	10027 Apr 29 22:17	0°♉	
morning set	10027 May 08 19:51	13°♉34'49	
max. Earth dist.	10027 May 17 09:40	27°♉09'16	1.43353 AU
	10027 May 19 03:46	0°♊	
superior conj	10027 May 24 00:43	8°♊02'44	-2°05'40
minimum elong	10027 May 24 05:36	8°♊23'10	2°05'47
evening rise	10027 Jun 05 05:19	29°♊05'02	
	10027 Jun 05 17:47	0°♋	
asc. node	10027 Jun 11 19:18	10°♋35'09	
evening max el	10027 Jun 22 02:26	25°♋21'06	18°04'30
retrograde	10027 Jun 28 15:14	28°♋43'09	
evening set	10027 Jul 01 05:50	28°♋10'31	
inferior conj	10027 Jul 07 18:12	23°♋07'02	2°11'30
minimum elong	10027 Jul 07 21:03	22°♋59'55	2°10'19
min. Earth dist.	10027 Jul 10 20:05	20°♋03'41	0.61493 AU
morning rise	10027 Jul 14 09:52	17°♋05'14	
desc. node	10027 Jul 15 20:35	16°♋11'52	
direct	10027 Jul 21 01:50	14°♋47'29	
morning max el	10027 Aug 04 07:22	22°♋48'24	27°56'38

	10027 Aug 10 16:22	0°♌	
	10027 Aug 30 01:33	0°♍	
morning set	10027 Sep 06 16:18	14°♍49'06	
asc. node	10027 Sep 07 19:11	17°♍08'18	
max. Earth dist.	10027 Sep 12 09:13	26°♍56'47	1.31814 AU
	10027 Sep 13 18:39	0°♎	
superior conj	10027 Sep 14 01:44	0°♎38'56	0°59'14
minimum elong	10027 Sep 13 23:34	0°♎26'58	0°58'49
evening rise	10027 Sep 20 19:58	15°♎28'37	
	10027 Sep 27 23:16	0°♏	
desc. node	10027 Oct 11 18:40	21°♏40'54	
evening max el	10027 Oct 16 16:55	27°♏04'11	24°48'43
	10027 Oct 20 03:21	0°♐	
retrograde	10027 Oct 30 12:33	4°♐00'49	
evening set	10027 Nov 05 00:13	2°♐53'20	
min. Earth dist.	10027 Nov 10 04:21	0°♐08'31	0.56742 AU
	10027 Nov 10 09:45	30°℞♏	
inferior conj	10027 Nov 12 20:33	28°♏24'56	-5°30'30
minimum elong	10027 Nov 13 01:30	28°♏16'54	5°29'36
morning rise	10027 Nov 21 05:03	24°♏18'36	
direct	10027 Nov 23 16:07	24°♏01'42	
morning max el	10027 Dec 03 03:07	28°♏32'22	19°22'26
asc. node	10027 Dec 04 19:15	0°♐16'30	
	10027 Dec 04 13:17	0°♐	
morning set	10027 Dec 20 05:20	26°♐04'45	
	10027 Dec 22 04:16	0°♑	
superior conj	10027 Dec 28 07:17	12°♑10'33	1°14'03
minimum elong	10027 Dec 28 10:18	12°♑25'11	1°14'07
max. Earth dist.	10028 Jan 03 19:40	24°♑29'00	1.38155 AU
	10028 Jan 06 21:29	0°♒	
evening rise	10028 Jan 07 13:22	1°♒09'46	
desc. node	10028 Jan 07 17:25	1°♒27'28	
	10028 Jan 25 17:35	0°♓	
evening max el	10028 Feb 12 00:25	21°♓31'57	24°59'51
retrograde	10028 Feb 23 21:31	28°♓26'23	
evening set	10028 Feb 29 13:52	26°♓04'34	
asc. node	10028 Mar 01 17:58	24°♓59'05	
min. Earth dist.	10028 Mar 05 01:20	21°♓03'53	0.67874 AU
inferior conj	10028 Mar 06 04:24	19°♓34'54	1°23'33
minimum elong	10028 Mar 06 02:37	19°♓40'49	1°23'01
morning rise	10028 Mar 11 15:38	13°♓38'30	
direct	10028 Mar 15 06:38	12°♓22'59	
morning max el	10028 Mar 22 11:58	16°♓23'15	19°32'32
	10028 Apr 02 03:55	0°♈	
greatest brilliancy	10028 Apr 04 04:28	2°♈57'12	-0.7m
desc. node	10028 Apr 04 17:48	3°♈46'22	
morning set	10028 Apr 16 18:22	22°♈00'44	
	10028 Apr 21 22:16	0°♉	
max. Earth dist.	10028 Apr 28 22:17	10°♉58'11	1.44776 AU
superior conj	10028 May 03 04:26	17°♉44'35	-2°12'45
minimum elong	10028 May 03 03:35	17°♉41'10	2°13'02
	10028 May 10 17:34	0°♊	
evening rise	10028 May 17 02:45	10°♊37'00	
asc. node	10028 May 28 16:20	29°♊37'03	
	10028 May 28 22:22	0°♋	
evening max el	10028 Jun 04 16:05	8°♋44'51	18°14'04
retrograde	10028 Jun 11 00:58	12°♋07'22	
evening set	10028 Jun 13 23:21	11°♋21'24	
inferior conj	10028 Jun 19 23:11	6°♋00'06	2°52'20
minimum elong	10028 Jun 20 01:25	5°♋53'47	2°51'29
min. Earth dist.	10028 Jun 22 12:25	3°♋09'00	0.63648 AU
	10028 Jun 25 18:54	30°℞♊	
morning rise	10028 Jun 26 02:03	29°♊45'43	
desc. node	10028 Jul 01 17:40	27°♊12'29	
direct	10028 Jul 02 19:04	27°♊08'46	
	10028 Jul 10 13:58	0°♋	
morning max el	10028 Jul 16 16:07	5°♋11'32	27°42'31
	10028 Aug 04 10:29	0°♌	
morning set	10028 Aug 20 11:18	28°♌36'41	
	10028 Aug 21 03:57	0°♍	
asc. node	10028 Aug 24 16:02	7°♍11'50	
max. Earth dist.	10028 Aug 25 10:38	8°♍49'34	1.32620 AU
superior conj	10028 Aug 28 08:36	15°♍03'15	0°36'08
minimum elong	10028 Aug 28 06:59	14°♍54'30	0°35'40
evening rise	10028 Sep 04 07:28	0°♎06'44	
	10028 Sep 04 06:13	0°♎	
	10028 Sep 20 22:14	0°♏	
evening max el	10028 Sep 27 03:47	7°♏16'35	23°09'41
desc. node	10028 Sep 27 15:51	7°♏45'21	
retrograde	10028 Oct 10 12:27	13°♏56'14	
evening set	10028 Oct 14 13:35	13°♏20'33	
min. Earth dist.	10028 Oct 21 13:09	10°♏07'17	0.55305 AU
inferior conj	10028 Oct 23 02:56	9°♏12'25	-5°41'20
minimum elong	10028 Oct 23 00:33	9°♏15'53	5°40'59
morning rise	10028 Oct 31 13:22	5°♏21'51	
direct	10028 Nov 03 13:07	5°♏00'35	
morning max el	10028 Nov 14 12:57	10°♏11'37	20°38'01
asc. node	10028 Nov 20 16:13	17°♏29'57	
	10028 Nov 28 02:55	0°♐	
morning set	10028 Dec 03 12:37	10°♐45'51	
superior conj	10028 Dec 10 23:53	26°♐13'04	1°29'54
minimum elong	10028 Dec 11 02:00	26°♐23'54	1°30'09
	10028 Dec 12 20:45	0°♑	
max. Earth dist.	10028 Dec 16 03:34	6°♑28'28	1.36067 AU
evening rise	10028 Dec 20 01:25	13°♑52'03	
desc. node	10028 Dec 24 14:24	22°♑00'25	
	10028 Dec 29 08:02	0°♒	
	10029 Jan 19 13:51	0°♓	
evening max el	10029 Jan 24 13:50	5°♓20'41	26°08'17
retrograde	10029 Feb 06 06:52	12°♓34'03	
evening set	10029 Feb 12 11:11	10°♓03'37	
min. Earth dist.	10029 Feb 16 16:14	5°♓37'30	0.66918 AU
asc. node	10029 Feb 16 15:07	5°♓40'52	
inferior conj	10029 Feb 18 06:58	3°♓37'39	0°32'27
minimum elong	10029 Feb 18 06:09	3°♓40'14	0°32'19
	10029 Feb 21 10:23	30°℞♒	
morning rise	10029 Feb 24 01:49	27°♒50'37	
direct	10029 Feb 27 05:39	26°♒53'50	
	10029 Mar 05 08:56	0°♓	
morning max el	10029 Mar 05 21:22	0°♓29'41	18°41'16
desc. node	10029 Mar 22 14:37	23°♓54'22	
	10029 Mar 26 12:05	0°♈	
morning set	10029 Mar 27 07:24	1°♈15'42	
max. Earth dist.	10029 Apr 11 15:52	25°♈17'20	1.45535 AU
superior conj	10029 Apr 12 13:57	26°♈43'49	-2°00'02
minimum elong	10029 Apr 12 06:09	26°♈13'14	1°59'43
	10029 Apr 14 16:00	0°♉	
evening rise	10029 Apr 28 00:26	21°♉09'21	
	10029 May 03 12:56	0°♊	
greatest brilliancy	10029 May 05 10:41	3°♊02'18	-0.9m
asc. node	10029 May 15 13:24	18°♊07'20	
evening max el	10029 May 19 03:56	22°♊19'22	18°41'36
retrograde	10029 May 25 18:00	25°♊55'43	
evening set	10029 May 29 00:18	24°♊55'00	
inferior conj	10029 Jun 03 15:25	19°♊17'15	3°13'33
minimum elong	10029 Jun 03 16:31	19°♊13'52	3°13'02
min. Earth dist.	10029 Jun 05 13:40	16°♊55'25	0.65504 AU
morning rise	10029 Jun 09 07:58	12°♊57'49	

direct	10029 Jun 15 19:54	10°♊13'09	
desc. node	10029 Jun 18 14:43	10°♊39'23	
morning max el	10029 Jun 29 02:33	18°♊04'32	26°55'48
	10029 Jul 09 02:44	0°♋	
	10029 Jul 28 09:17	0°♌	
morning set	10029 Aug 03 20:02	11°♌52'12	
max. Earth dist.	10029 Aug 08 02:40	20°♌16'33	1.33934 AU
asc. node	10029 Aug 11 12:54	27°♌17'43	
superior conj	10029 Aug 12 09:52	29°♌07'07	0°08'40
minimum elong	10029 Aug 12 09:25	29°♌04'47	0°08'20
behind sun begin	10029 Aug 12 04:31	28°♌39'09	
behind sun end	10029 Aug 12 14:19	29°♌30'28	
	10029 Aug 12 19:57	0°♍	
evening rise	10029 Aug 19 17:48	14°♍38'09	
	10029 Aug 27 11:34	0°♎	
evening max el	10029 Sep 08 19:17	17°♎32'08	21°32'37
desc. node	10029 Sep 14 13:05	21°♎54'15	
retrograde	10029 Sep 21 01:44	23°♎37'39	
evening set	10029 Sep 23 18:08	23°♎21'15	
inferior conj	10029 Oct 02 20:36	19°♎24'32	-4°56'26
minimum elong	10029 Oct 02 11:34	19°♎37'10	4°54'22
min. Earth dist.	10029 Oct 02 20:42	19°♎24'24	0.54649 AU
morning rise	10029 Oct 11 05:57	15°♎35'09	
direct	10029 Oct 14 22:35	15°♎05'33	
morning max el	10029 Oct 27 09:39	21°♎00'46	22°13'44
	10029 Nov 03 22:40	0°♏	
asc. node	10029 Nov 07 13:10	5°♏35'19	
morning set	10029 Nov 17 23:05	25°♏33'18	
	10029 Nov 20 01:22	0°♐	
superior conj	10029 Nov 25 01:03	10°♐38'18	1°38'19
minimum elong	10029 Nov 25 01:59	10°♐43'11	1°38'41
max. Earth dist.	10029 Nov 28 18:06	18°♐22'06	1.34279 AU
evening rise	10029 Dec 03 04:46	27°♐13'33	
	10029 Dec 04 15:29	0°♑	
desc. node	10029 Dec 11 11:26	12°♑20'55	
	10029 Dec 22 15:25	0°♒	
evening max el	10030 Jan 07 03:23	19°♒00'45	26°59'54
retrograde	10030 Jan 20 10:22	26°♒21'53	
evening set	10030 Jan 27 01:21	23°♒47'40	
min. Earth dist.	10030 Jan 31 00:49	19°♒55'34	0.65586 AU
inferior conj	10030 Feb 02 03:18	17°♒31'31	-0°27'22
minimum elong	10030 Feb 02 04:05	17°♒29'17	0°26'44
asc. node	10030 Feb 03 12:17	15°♒58'55	
morning rise	10030 Feb 08 08:05	11°♒56'24	
direct	10030 Feb 11 02:24	11°♒15'00	
morning max el	10030 Feb 17 12:09	14°♒38'14	18°06'44
	10030 Feb 28 15:36	0°♓	
morning set	10030 Mar 08 00:47	11°♓56'47	
desc. node	10030 Mar 09 11:28	14°♓17'41	
	10030 Mar 19 06:06	0°♈	
superior conj	10030 Mar 22 21:14	5°♈44'18	-1°28'40
minimum elong	10030 Mar 22 12:00	5°♈07'58	1°27'40
max. Earth dist.	10030 Mar 25 11:58	9°♈50'39	1.45545 AU
	10030 Apr 07 10:49	0°♉	
evening rise	10030 Apr 08 00:23	0°♉52'33	
greatest brilliancy	10030 Apr 20 15:15	20°♉14'12	-0.7m
	10030 Apr 27 11:02	0°♊	
asc. node	10030 May 02 10:31	5°♊56'17	
evening max el	10030 May 02 11:47	5°♊59'29	19°25'58
retrograde	10030 May 09 15:10	10°♊01'52	
evening set	10030 May 13 05:50	8°♊45'44	
inferior conj	10030 May 18 15:35	2°♊52'57	3°19'06
minimum elong	10030 May 18 15:29	2°♊53'18	3°18'43
min. Earth dist.	10030 May 19 22:45	1°♊10'40	0.66951 AU
	10030 May 20 20:53	30°℞♉	
morning rise	10030 May 24 00:45	26°♉33'04	
direct	10030 May 30 03:06	23°♉51'49	
desc. node	10030 Jun 05 11:45	26°♉08'17	
	10030 Jun 10 05:27	0°♊	
morning max el	10030 Jun 11 12:51	1°♊17'14	25°44'53
	10030 Jul 03 03:25	0°♋	
morning set	10030 Jul 17 14:47	24°♋26'17	
	10030 Jul 20 14:34	0°♌	
max. Earth dist.	10030 Jul 21 08:28	1°♌24'52	1.35719 AU
superior conj	10030 Jul 27 02:54	12°♌43'49	-0°22'19
minimum elong	10030 Jul 27 04:15	12°♌50'38	0°22'22
asc. node	10030 Jul 29 09:48	17°♌22'24	
evening rise	10030 Aug 04 00:53	28°♌57'12	
	10030 Aug 04 13:10	0°♍	
evening max el	10030 Aug 21 22:42	28°♍21'47	20°10'24
	10030 Aug 23 17:49	0°♎	
desc. node	10030 Sep 01 10:18	3°♎39'22	
retrograde	10030 Sep 01 14:49	3°♎39'28	
evening set	10030 Sep 03 13:39	3°♎29'37	
	10030 Sep 11 19:24	30°℞♍	
inferior conj	10030 Sep 12 15:01	29°♍30'59	-3°21'44
minimum elong	10030 Sep 12 06:15	29°♍43'59	3°18'48
min. Earth dist.	10030 Sep 14 05:52	28°♍33'22	0.54929 AU
morning rise	10030 Sep 20 21:52	25°♍21'56	
direct	10030 Sep 25 08:51	24°♍39'01	
	10030 Oct 07 12:14	0°♎	
morning max el	10030 Oct 08 22:21	1°♎16'31	24°00'27
asc. node	10030 Oct 25 10:06	24°♎20'17	
	10030 Oct 28 09:46	0°♏	
morning set	10030 Nov 02 10:51	10°♏21'51	
superior conj	10030 Nov 09 07:58	25°♏18'11	1°40'03
minimum elong	10030 Nov 09 07:42	25°♏16'40	1°40'23
max. Earth dist.	10030 Nov 11 16:46	0°♐24'32	1.32899 AU
	10030 Nov 11 12:11	0°♐	
evening rise	10030 Nov 16 19:51	11°♐05'13	
	10030 Nov 26 22:46	0°♑	
desc. node	10030 Nov 28 08:29	2°♑23'08	
	10030 Dec 18 07:42	0°♒	
evening max el	10030 Dec 20 15:47	2°♒20'37	27°27'32
retrograde	10031 Jan 03 07:21	9°♒41'36	
evening set	10031 Jan 10 06:03	7°♒10'11	
min. Earth dist.	10031 Jan 14 00:57	3°♒50'01	0.63915 AU
inferior conj	10031 Jan 16 14:50	1°♒10'15	-1°35'01
minimum elong	10031 Jan 16 17:51	1°♒02'28	1°33'24
	10031 Jan 17 18:21	30°℞♑	
asc. node	10031 Jan 21 09:28	26°♑52'18	
morning rise	10031 Jan 23 07:34	25°♑49'57	
direct	10031 Jan 25 18:11	25°♑20'17	
morning max el	10031 Feb 01 05:36	28°♑41'33	17°49'18
	10031 Feb 02 11:19	0°♒	
morning set	10031 Feb 17 21:56	23°♒58'36	
	10031 Feb 21 11:01	0°♓	
desc. node	10031 Feb 24 08:17	4°♓51'16	
superior conj	10031 Mar 02 20:03	15°♓32'53	-0°46'55
minimum elong	10031 Mar 02 14:56	15°♓12'07	0°46'02
max. Earth dist.	10031 Mar 08 07:16	24°♓18'57	1.44817 AU
	10031 Mar 11 21:53	0°♈	
evening rise	10031 Mar 18 12:24	10°♈13'43	
	10031 Mar 31 15:43	0°♉	
evening max el	10031 Apr 15 14:12	19°♉41'06	20°25'26
asc. node	10031 Apr 19 07:42	22°♉50'44	
retrograde	10031 Apr 23 13:54	24°♉19'36	
evening set	10031 Apr 27 13:44	22°♉47'53	

inferior conj	10031 May 02 20:56	16°♉41'50	3°11'53
minimum elong	10031 May 02 19:48	16°♉45'41	3°11'29
min. Earth dist.	10031 May 03 13:55	15°♉43'41	0.67945 AU
morning rise	10031 May 08 01:39	10°♉24'15	
direct	10031 May 13 15:45	7°♉55'12	
desc. node	10031 May 23 08:43	13°♉08'44	
morning max el	10031 May 24 22:27	14°♉40'30	24°19'26
	10031 Jun 06 10:43	0°♊	
	10031 Jun 26 00:54	0°♋	
morning set	10031 Jun 29 14:43	6°♋06'16	
max. Earth dist.	10031 Jul 03 06:38	12°♋34'53	1.37861 AU
superior conj	10031 Jul 10 08:21	25°♋44'33	-0°55'11
minimum elong	10031 Jul 10 11:57	26°♋01'51	0°54'58
	10031 Jul 12 13:07	0°♌	
asc. node	10031 Jul 16 06:43	7°♌21'37	
evening rise	10031 Jul 19 02:09	12°♌56'27	
	10031 Jul 28 05:53	0°♍	
evening max el	10031 Aug 04 15:35	9°♍57'14	19°08'36
retrograde	10031 Aug 13 15:57	14°♍26'05	
evening set	10031 Aug 15 12:39	14°♍15'24	
desc. node	10031 Aug 19 07:32	12°♍54'55	
inferior conj	10031 Aug 23 23:48	10°♍03'13	-1°27'04
minimum elong	10031 Aug 23 19:59	10°♍09'40	1°25'45
min. Earth dist.	10031 Aug 26 19:01	8°♍09'44	0.56110 AU
morning rise	10031 Sep 01 00:18	5°♍18'54	
direct	10031 Sep 06 06:44	4°♍14'31	
morning max el	10031 Sep 20 10:44	11°♍27'47	25°42'20
	10031 Oct 04 16:41	0°♎	
asc. node	10031 Oct 12 07:01	13°♎34'20	
morning set	10031 Oct 17 22:13	25°♎06'21	
	10031 Oct 20 04:32	0°♏	
superior conj	10031 Oct 24 18:18	10°♏05'24	1°35'42
minimum elong	10031 Oct 24 17:01	9°♏58'18	1°35'52
max. Earth dist.	10031 Oct 25 22:02	12°♏38'25	1.31973 AU
evening rise	10031 Oct 31 19:32	25°♏18'54	
	10031 Nov 03 02:27	0°♐	
desc. node	10031 Nov 15 05:35	21°♐59'27	
	10031 Nov 20 11:42	0°♑	
evening max el	10031 Dec 03 00:55	15°♑07'53	27°25'13
retrograde	10031 Dec 16 21:16	22°♑24'08	
evening set	10031 Dec 23 22:17	20°♑04'30	
min. Earth dist.	10031 Dec 27 15:07	17°♑10'43	0.61967 AU
inferior conj	10031 Dec 30 14:34	14°♑26'40	-2°48'11
minimum elong	10031 Dec 30 20:08	14°♑13'51	2°45'39
morning rise	10032 Jan 06 20:27	9°♑24'19	
asc. node	10032 Jan 08 06:37	9°♑05'32	
direct	10032 Jan 09 01:46	9°♑02'41	
morning max el	10032 Jan 15 22:31	12°♑31'37	17°49'38
	10032 Jan 27 17:57	0°♒	
morning set	10032 Jan 31 16:55	7°♒02'39	
desc. node	10032 Feb 11 05:06	25°♒31'30	
superior conj	10032 Feb 11 19:26	26°♒32'36	-0°04'31
minimum elong	10032 Feb 11 19:02	26°♒30'54	0°04'12
behind sun begin	10032 Feb 11 10:36	25°♒55'01	
behind sun end	10032 Feb 12 03:28	27°♒06'43	
	10032 Feb 13 20:32	0°♓	
max. Earth dist.	10032 Feb 18 22:56	8°♓24'56	1.43442 AU
evening rise	10032 Feb 26 03:44	19°♓51'32	
	10032 Mar 03 18:36	0°♈	
	10032 Mar 25 08:36	0°♉	
evening max el	10032 Mar 28 11:05	3°♉23'55	21°36'50
asc. node	10032 Apr 05 04:54	8°♉35'47	
retrograde	10032 Apr 06 12:09	8°♉44'11	
evening set	10032 Apr 10 22:09	6°♉57'10	

inferior conj	10032 Apr 16 05:09	0°♉40'11	2°53'49
minimum elong	10032 Apr 16 03:18	0°♉46'37	2°53'17
min. Earth dist.	10032 Apr 16 09:02	0°♉26'38	0.68486 AU
	10032 Apr 16 16:41	30°℞♈	
morning rise	10032 Apr 21 08:16	24°♈26'40	
direct	10032 Apr 26 08:58	22°♈15'46	
morning max el	10032 May 06 08:49	28°♈10'49	22°49'28
	10032 May 08 02:22	0°♉	
desc. node	10032 May 09 05:37	1°♉16'03	
	10032 May 30 02:45	0°♊	
morning set	10032 Jun 09 14:39	16°♊39'20	
max. Earth dist.	10032 Jun 14 03:28	24°♊16'14	1.40143 AU
	10032 Jun 17 10:47	0°♋	
superior conj	10032 Jun 21 22:11	8°♋00'18	-1°27'19
minimum elong	10032 Jun 22 03:51	8°♋26'09	1°27'00
evening rise	10032 Jul 01 18:30	26°♋28'04	
asc. node	10032 Jul 02 03:40	27°♋11'39	
	10032 Jul 03 15:12	0°♌	
evening max el	10032 Jul 17 19:18	22°♌15'40	18°27'57
retrograde	10032 Jul 25 11:32	26°♌06'16	
evening set	10032 Jul 27 13:58	25°♌49'50	
inferior conj	10032 Aug 04 05:45	21°♌18'09	0°17'23
minimum elong	10032 Aug 04 06:23	21°♌16'54	0°16'52
desc. node	10032 Aug 05 04:43	20°♌32'21	
min. Earth dist.	10032 Aug 07 13:47	18°♌40'35	0.57977 AU
morning rise	10032 Aug 11 19:15	15°♌57'09	
direct	10032 Aug 17 19:31	14°♌24'01	
morning max el	10032 Sep 01 04:15	22°♌02'56	27°02'04
	10032 Sep 08 04:31	0°♍	
	10032 Sep 26 13:53	0°♎	
asc. node	10032 Sep 28 03:51	3°♎09'34	
morning set	10032 Oct 01 07:27	9°♎41'38	
superior conj	10032 Oct 08 06:01	24°♎53'25	1°25'42
minimum elong	10032 Oct 08 04:03	24°♎42'27	1°25'37
max. Earth dist.	10032 Oct 08 06:59	24°♎58'46	1.31530 AU
	10032 Oct 10 13:13	0°♏	
evening rise	10032 Oct 15 01:13	9°♏47'12	
	10032 Oct 25 09:40	0°♐	
desc. node	10032 Nov 01 02:44	10°♐58'47	
evening max el	10032 Nov 14 04:21	27°♐10'23	26°49'02
	10032 Nov 17 11:37	0°♑	
retrograde	10032 Nov 28 02:43	4°♑19'17	
evening set	10032 Dec 04 22:00	2°♑21'41	
	10032 Dec 08 10:20	30°℞♐	
min. Earth dist.	10032 Dec 08 18:39	29°♐44'02	0.59865 AU
inferior conj	10032 Dec 11 22:56	27°♐10'44	-4°01'40
minimum elong	10032 Dec 12 06:31	26°♐55'28	3°58'55
morning rise	10032 Dec 19 17:39	22°♐29'00	
direct	10032 Dec 21 21:05	22°♐11'51	
asc. node	10032 Dec 25 03:42	22°♐53'56	
morning max el	10032 Dec 29 11:19	25°♐57'41	18°09'00
	10033 Jan 01 22:18	0°♑	
morning set	10033 Jan 14 03:27	20°♑49'37	
	10033 Jan 19 01:06	0°♒	
superior conj	10033 Jan 23 18:53	8°♒39'47	0°32'23
minimum elong	10033 Jan 23 21:16	8°♒50'26	0°32'23
desc. node	10033 Jan 28 01:57	16°♒14'15	
max. Earth dist.	10033 Jan 31 09:54	21°♒55'37	1.41575 AU
evening rise	10033 Feb 05 11:04	0°♓15'08	
	10033 Feb 05 07:19	0°♓	
	10033 Feb 25 06:36	0°♈	
evening max el	10033 Mar 11 03:38	17°♈08'49	22°55'36
retrograde	10033 Mar 21 08:12	23°♈10'27	
asc. node	10033 Mar 23 02:07	22°♈55'35	

evening set	10033 Mar 26	05:27	21°♈08'46	
min. Earth dist.	10033 Mar 31	05:46	15°♈13'04	0.68584 AU
inferior conj	10033 Mar 31	14:10	14°♈43'55	2°26'00
minimum elong	10033 Mar 31	11:59	14°♈51'30	2°25'21
morning rise	10033 Apr 05	18:24	8°♈35'56	
direct	10033 Apr 10	05:35	6°♈46'19	
morning max el	10033 Apr 18	23:11	11°♈49'42	21°23'53
desc. node	10033 Apr 26	02:28	20°♈11'26	
	10033 May 03	06:09	0°♉	
morning set	10033 May 20	11:45	25°♉59'10	
	10033 May 23	00:17	0°♊	
max. Earth dist.	10033 May 27	05:23	6°♊50'10	1.42290 AU
superior conj	10033 Jun 03	15:48	19°♊20'44	-1°54'31
minimum elong	10033 Jun 03	21:57	19°♊47'17	1°54'25
	10033 Jun 09	17:22	0°♋	
evening rise	10033 Jun 14	21:54	9°♋21'55	
asc. node	10033 Jun 19	00:40	16°♋47'51	
	10033 Jun 27	00:52	0°♌	
evening max el	10033 Jul 01	05:49	5°♌07'35	18°07'33
retrograde	10033 Jul 08	01:13	8°♌35'20	
evening set	10033 Jul 10	11:28	8°♌09'18	
inferior conj	10033 Jul 17	08:51	3°♌17'04	1°37'22
minimum elong	10033 Jul 17	11:29	3°♌11'00	1°36'09
min. Earth dist.	10033 Jul 20	15:44	0°♌16'29	0.60192 AU
	10033 Jul 20	23:21	30°℞♋	
desc. node	10033 Jul 23	01:51	28°♋19'18	
morning rise	10033 Jul 24	08:37	27°♋27'25	
direct	10033 Jul 30	21:05	25°♋24'37	
	10033 Aug 10	11:44	0°♌	
morning max el	10033 Aug 14	04:44	3°♌19'23	27°47'46
	10033 Sep 02	19:11	0°♍	
asc. node	10033 Sep 15	00:41	22°♍59'59	
morning set	10033 Sep 15	12:52	24°♍03'17	
	10033 Sep 18	08:05	0°♎	
max. Earth dist.	10033 Sep 21	16:10	7°♎17'41	1.31573 AU
superior conj	10033 Sep 22	17:19	9°♎36'55	1°10'22
minimum elong	10033 Sep 22	15:05	9°♎24'29	1°10'03
evening rise	10033 Sep 29	10:43	24°♎24'18	
	10033 Oct 02	02:24	0°♏	
desc. node	10033 Oct 18	23:54	29°♏06'52	
	10033 Oct 19	15:48	0°♐	
evening max el	10033 Oct 26	23:57	8°♐21'49	25°40'03
retrograde	10033 Nov 09	21:33	15°♐22'37	
evening set	10033 Nov 16	00:26	13°♐55'43	
min. Earth dist.	10033 Nov 20	12:24	11°♐18'53	0.57810 AU
inferior conj	10033 Nov 23	12:35	9°♐13'03	-5°05'03
minimum elong	10033 Nov 23	19:46	9°♐00'28	5°03'16
morning rise	10033 Dec 01	17:25	4°♐53'45	
direct	10033 Dec 04	00:04	4°♐37'37	
asc. node	10033 Dec 12	00:42	8°♐13'12	
morning max el	10033 Dec 12	16:12	8°♐49'17	18°49'12
	10033 Dec 26	09:47	0°♑	
morning set	10033 Dec 29	00:43	5°♑05'20	
superior conj	10034 Jan 06	14:03	21°♑42'08	1°01'15
minimum elong	10034 Jan 06	17:13	21°♑57'08	1°01'14
	10034 Jan 11	01:22	0°♒	
max. Earth dist.	10034 Jan 13	17:07	4°♒45'32	1.39428 AU
desc. node	10034 Jan 14	22:50	6°♒56'04	
evening rise	10034 Jan 17	15:45	11°♒35'20	
	10034 Jan 29	03:01	0°♓	
	10034 Feb 20	19:15	0°♈	
evening max el	10034 Feb 21	17:43	0°♈56'51	24°15'45
retrograde	10034 Mar 05	00:46	7°♈34'03	
asc. node	10034 Mar 09	23:18	5°♈41'02	
evening set	10034 Mar 10	10:07	5°♈18'56	
min. Earth dist.	10034 Mar 15	01:53	29°♓58'19	0.68257 AU
	10034 Mar 15	01:23	30°℞♓	
inferior conj	10034 Mar 15	22:11	28°♓49'58	1°48'59
minimum elong	10034 Mar 15	20:06	28°♓56'59	1°48'20
morning rise	10034 Mar 21	06:08	22°♓48'58	
direct	10034 Mar 25	04:17	21°♓21'16	
morning max el	10034 Apr 01	20:39	25°♓40'43	20°09'06
	10034 Apr 05	17:32	0°♈	
desc. node	10034 Apr 12	23:18	9°♈42'01	
	10034 Apr 26	15:03	0°♉	
morning set	10034 Apr 29	12:58	4°♉28'22	
max. Earth dist.	10034 May 09	14:54	20°♉17'18	1.44040 AU
superior conj	10034 May 15	09:26	29°♉37'50	-2°10'51
minimum elong	10034 May 15	12:23	29°♉49'57	2°11'07
	10034 May 15	14:50	0°♊	
evening rise	10034 May 28	07:38	21°♊26'40	
	10034 Jun 02	06:52	0°♋	
asc. node	10034 Jun 05	21:41	6°♋04'05	
evening max el	10034 Jun 14	19:16	18°♋22'00	18°06'20
retrograde	10034 Jun 21	05:04	21°♋42'20	
evening set	10034 Jun 23	23:05	21°♋04'05	
inferior conj	10034 Jun 30	05:35	15°♋52'35	2°31'32
minimum elong	10034 Jun 30	08:18	15°♋45'28	2°30'28
min. Earth dist.	10034 Jul 03	02:28	12°♋52'21	0.62440 AU
morning rise	10034 Jul 06	15:36	9°♋44'35	
desc. node	10034 Jul 09	22:59	7°♋55'00	
direct	10034 Jul 13	08:53	7°♋17'40	
morning max el	10034 Jul 27	11:12	15°♋19'47	27°55'05
	10034 Aug 08	10:18	0°♌	
	10034 Aug 26	10:10	0°♍	
morning set	10034 Aug 30	12:20	8°♍04'45	
asc. node	10034 Sep 01	21:31	12°♍59'41	
max. Earth dist.	10034 Sep 04	21:40	19°♍23'17	1.32102 AU
superior conj	10034 Sep 07	02:20	24°♍09'20	0°50'00
minimum elong	10034 Sep 07	00:19	23°♍58'20	0°49'33
	10034 Sep 09	18:16	0°♎	
evening rise	10034 Sep 13	22:02	9°♎03'21	
	10034 Sep 24	14:50	0°♏	
desc. node	10034 Oct 05	21:05	16°♏03'19	
evening max el	10034 Oct 08	12:14	18°♏47'35	24°07'20
retrograde	10034 Oct 22	04:12	25°♏38'01	
evening set	10034 Oct 27	02:18	24°♏44'52	
min. Earth dist.	10034 Nov 01	22:54	21°♏50'12	0.56059 AU
inferior conj	10034 Nov 04	05:42	20°♏26'20	-5°41'09
minimum elong	10034 Nov 04	07:57	20°♏22'53	5°40'44
morning rise	10034 Nov 12	15:38	16°♏28'02	
direct	10034 Nov 15	07:42	16°♏09'35	
morning max el	10034 Nov 25	09:36	20°♏56'06	19°51'55
asc. node	10034 Nov 28	21:41	24°♏48'59	
	10034 Dec 02	13:46	0°♐	
morning set	10034 Dec 13	05:06	19°♐39'06	
	10034 Dec 18	07:08	0°♑	
superior conj	10034 Dec 21	00:02	5°♑25'51	1°21'44
minimum elong	10034 Dec 21	02:44	5°♑39'17	1°21'52
max. Earth dist.	10034 Dec 26	23:28	16°♑58'44	1.37241 AU
evening rise	10034 Dec 30	17:08	23°♑49'08	
desc. node	10035 Jan 01	19:47	27°♑33'07	
	10035 Jan 03	05:43	0°♒	
	10035 Jan 22	20:08	0°♓	
evening max el	10035 Feb 04	06:59	14°♓46'11	25°30'33
retrograde	10035 Feb 16	12:57	21°♓49'38	
evening set	10035 Feb 22	10:38	19°♓23'29	
asc. node	10035 Feb 24	20:28	16°♓59'29	

min. Earth dist.	10035 Feb 26 19:13	14°♓37'52	0.67516 AU
inferior conj	10035 Feb 28 03:18	12°♓54'57	1°02'59
minimum elong	10035 Feb 28 01:50	12°♓59'38	1°02'34
morning rise	10035 Mar 05 17:29	7°♓02'31	
direct	10035 Mar 09 03:37	5°♓55'19	
morning max el	10035 Mar 16 02:06	9°♓43'17	19°08'49
greatest brilliancy	10035 Mar 29 06:03	27°♓14'40	-0.7m
desc. node	10035 Mar 30 20:08	29°♓38'29	
	10035 Mar 31 01:48	0°♈	
morning set	10035 Apr 08 15:10	13°♈08'50	
	10035 Apr 19 11:19	0°♉	
max. Earth dist.	10035 Apr 22 06:34	4°♉23'39	1.45188 AU
superior conj	10035 Apr 25 04:07	8°♉57'53	-2°09'53
minimum elong	10035 Apr 25 00:02	8°♉41'45	2°10'01
	10035 May 08 05:41	0°♊	
evening rise	10035 May 09 19:18	2°♊34'13	
asc. node	10035 May 23 18:46	24°♊53'56	
	10035 May 27 15:34	0°♋	
evening max el	10035 May 29 08:28	1°♋51'12	18°23'33
retrograde	10035 Jun 04 18:32	5°♋18'15	
evening set	10035 Jun 07 20:14	4°♋26'05	
	10035 Jun 12 18:15	30°℞♊	
inferior conj	10035 Jun 13 15:53	28°♊57'18	3°03'28
minimum elong	10035 Jun 13 17:40	28°♊52'03	3°02'47
min. Earth dist.	10035 Jun 15 22:45	26°♊17'11	0.64482 AU
morning rise	10035 Jun 19 14:01	22°♊39'53	
direct	10035 Jun 26 05:19	19°♊58'31	
desc. node	10035 Jun 26 20:05	19°♊59'48	
morning max el	10035 Jul 09 21:15	27°♊58'04	27°26'13
	10035 Jul 11 19:42	0°♋	
	10035 Aug 02 04:36	0°♌	
morning set	10035 Aug 14 03:23	21°♌39'42	
	10035 Aug 18 06:50	0°♍	
max. Earth dist.	10035 Aug 18 19:42	1°♍06'24	1.33124 AU
asc. node	10035 Aug 19 18:23	3°♍04'28	
superior conj	10035 Aug 22 07:06	8°♍25'19	0°24'58
minimum elong	10035 Aug 22 05:54	8°♍18'55	0°24'32
evening rise	10035 Aug 29 09:18	23°♍39'08	
	10035 Sep 01 10:17	0°♎	
evening max el	10035 Sep 19 23:40	28°♎55'29	22°27'03
	10035 Sep 21 03:11	0°♏	
desc. node	10035 Sep 22 18:19	1°♏22'06	
retrograde	10035 Oct 02 23:08	5°♏23'31	
evening set	10035 Oct 06 09:14	4°♏57'42	
min. Earth dist.	10035 Oct 14 06:30	1°♏27'35	0.54918 AU
inferior conj	10035 Oct 15 05:18	0°♏55'20	-5°29'23
minimum elong	10035 Oct 14 23:31	1°♏03'32	5°28'30
	10035 Oct 16 20:50	30°℞♎	
morning rise	10035 Oct 23 15:31	27°♎07'57	
direct	10035 Oct 26 22:01	26°♎43'48	
	10035 Nov 04 21:48	0°♏	
morning max el	10035 Nov 07 13:39	2°♏13'05	21°16'47
asc. node	10035 Nov 15 18:39	12°♏25'48	
	10035 Nov 25 10:50	0°♐	
morning set	10035 Nov 27 13:57	4°♐23'13	
superior conj	10035 Dec 04 20:39	19°♐38'59	1°34'21
minimum elong	10035 Dec 04 22:17	19°♐47'26	1°34'39
max. Earth dist.	10035 Dec 09 09:37	28°♐52'19	1.35253 AU
	10035 Dec 09 23:19	0°♑	
evening rise	10035 Dec 13 12:04	6°♑48'32	
desc. node	10035 Dec 19 16:46	18°♑00'57	
	10035 Dec 26 23:04	0°♒	
evening max el	10036 Jan 17 20:17	28°♒31'17	26°32'45
	10036 Jan 19 10:22	0°♓	
retrograde	10036 Jan 30 20:01	5°♓49'51	
evening set	10036 Feb 06 05:12	3°♓16'45	
	10036 Feb 09 12:47	30°℞♒	
min. Earth dist.	10036 Feb 10 07:37	29°♒05'31	0.66388 AU
asc. node	10036 Feb 11 17:40	27°♒23'39	
inferior conj	10036 Feb 12 03:29	26°♒54'07	0°08'05
minimum elong	10036 Feb 12 03:16	26°♒54'47	0°08'15
transit middle	10036 Feb 12 03:16	26°♒54'47	0°08'15
transit begin	10036 Feb 12 00:46	27°♒02'17	
transit end	10036 Feb 12 05:45	26°♒47'18	
morning rise	10036 Feb 18 02:18	21°♒12'08	
direct	10036 Feb 21 01:49	20°♒22'28	
morning max el	10036 Feb 27 14:11	23°♒51'41	18°24'36
	10036 Mar 03 16:54	0°♓	
desc. node	10036 Mar 16 16:57	19°♓53'17	
morning set	10036 Mar 18 15:31	22°♓58'26	
	10036 Mar 23 01:46	0°♈	
superior conj	10036 Apr 03 10:21	17°♈51'23	-1°48'40
minimum elong	10036 Apr 03 01:03	17°♈15'00	1°47'58
max. Earth dist.	10036 Apr 04 01:23	18°♈50'08	1.45624 AU
	10036 Apr 11 04:42	0°♉	
evening rise	10036 Apr 19 07:07	12°♉43'26	
greatest brilliancy	10036 Apr 29 03:53	28°♉12'23	-0.8m
	10036 Apr 30 07:50	0°♊	
asc. node	10036 May 09 15:54	13°♊08'08	
evening max el	10036 May 11 18:48	15°♊28'21	18°58'26
retrograde	10036 May 18 13:47	19°♊14'46	
evening set	10036 May 21 23:27	18°♊07'43	
inferior conj	10036 May 27 11:55	12°♊23'21	3°17'35
minimum elong	10036 May 27 12:30	12°♊21'30	3°17'10
min. Earth dist.	10036 May 29 03:42	10°♊17'14	0.66171 AU
morning rise	10036 Jun 02 00:56	6°♊02'57	
direct	10036 Jun 08 09:09	3°♊18'23	
desc. node	10036 Jun 12 17:08	4°♊22'03	
morning max el	10036 Jun 21 08:02	11°♊01'29	26°27'59
	10036 Jul 06 09:48	0°♋	
	10036 Jul 24 18:25	0°♌	
morning set	10036 Jul 27 06:45	4°♌39'18	
max. Earth dist.	10036 Jul 31 07:13	12°♌23'17	1.34638 AU
superior conj	10036 Aug 05 05:15	22°♌18'30	-0°04'09
minimum elong	10036 Aug 05 05:29	22°♌19'46	0°04'23
behind sun begin	10036 Aug 04 23:48	21°♌50'29	
behind sun end	10036 Aug 05 11:11	22°♌49'07	
asc. node	10036 Aug 05 15:17	23°♌10'18	
	10036 Aug 08 21:50	0°♍	
evening rise	10036 Aug 12 18:32	8°♍05'55	
	10036 Aug 24 11:22	0°♎	
evening max el	10036 Aug 31 19:42	9°♎23'07	20°55'21
desc. node	10036 Sep 08 15:32	14°♎32'53	
retrograde	10036 Sep 12 11:12	15°♎09'37	
evening set	10036 Sep 14 17:35	14°♎57'23	
inferior conj	10036 Sep 23 21:34	11°♎01'36	-4°20'56
minimum elong	10036 Sep 23 11:44	11°♎15'34	4°18'11
min. Earth dist.	10036 Sep 24 14:53	10°♎37'01	0.54645 AU
morning rise	10036 Oct 02 06:03	7°♎05'58	
direct	10036 Oct 06 06:05	6°♎31'35	
morning max el	10036 Oct 19 06:17	12°♎46'10	22°58'37
	10036 Nov 01 04:06	0°♏	
asc. node	10036 Nov 01 15:35	0°♏49'35	
morning set	10036 Nov 11 01:13	19°♏11'58	
	10036 Nov 16 01:48	0°♐	
superior conj	10036 Nov 18 00:38	4°♐11'58	1°39'51
minimum elong	10036 Nov 18 01:02	4°♐14'07	1°40'12
max. Earth dist.	10036 Nov 21 03:23	10°♐47'43	1.33631 AU

evening rise	10036 Nov 25 20:53	20°♐24'31	
	10036 Nov 30 21:54	0°♑	
desc. node	10036 Dec 05 13:48	8°♑14'36	
	10036 Dec 19 22:18	0°♒	
evening max el	10036 Dec 30 09:28	12°♒04'09	27°15'02
retrograde	10037 Jan 12 21:05	19°♒26'55	
evening set	10037 Jan 19 15:41	16°♒52'55	
min. Earth dist.	10037 Jan 23 12:59	13°♒14'40	0.64907 AU
inferior conj	10037 Jan 25 20:26	10°♒42'32	-0°55'13
minimum elong	10037 Jan 25 22:06	10°♒37'58	0°54'10
asc. node	10037 Jan 28 14:50	7°♒49'57	
morning rise	10037 Feb 01 06:05	5°♒13'19	
direct	10037 Feb 03 20:45	4°♒37'31	
morning max el	10037 Feb 10 06:29	7°♒59'03	17°57'10
	10037 Feb 25 07:40	0°♓	
morning set	10037 Feb 27 21:15	4°♓15'20	
desc. node	10037 Mar 03 13:47	10°♓21'17	
superior conj	10037 Mar 13 22:27	27°♓07'39	-1°11'37
minimum elong	10037 Mar 13 14:35	26°♓36'21	1°10'34
	10037 Mar 15 17:54	0°♈	
max. Earth dist.	10037 Mar 17 20:50	3°♈20'49	1.45320 AU
evening rise	10037 Mar 30 00:14	22°♈12'04	
	10037 Apr 04 02:23	0°♉	
greatest brilliancy	10037 Apr 13 08:27	13°♉55'02	-0.6m
evening max el	10037 Apr 25 00:28	29°♉09'12	19°49'37
	10037 Apr 25 21:20	0°♊	
asc. node	10037 Apr 26 13:03	0°♊35'29	
retrograde	10037 May 02 11:50	3°♊25'58	
evening set	10037 May 06 06:14	2°♊03'22	
	10037 May 08 11:35	30°℞♉	
inferior conj	10037 May 11 14:36	26°♉04'57	3°17'25
minimum elong	10037 May 11 14:02	26°♉06'51	3°17'04
min. Earth dist.	10037 May 12 15:42	24°♉40'48	0.67432 AU
morning rise	10037 May 16 21:30	19°♉45'40	
direct	10037 May 22 18:58	17°♉08'21	
desc. node	10037 May 30 14:09	20°♉32'51	
morning max el	10037 Jun 03 17:48	24°♉18'36	25°09'36
	10037 Jun 08 20:11	0°♊	
	10037 Jun 29 20:02	0°♋	
morning set	10037 Jul 09 18:09	16°♋52'01	
max. Earth dist.	10037 Jul 13 08:42	23°♋26'42	1.36594 AU
	10037 Jul 16 19:52	0°♌	
superior conj	10037 Jul 19 17:50	5°♌41'08	-0°36'08
minimum elong	10037 Jul 19 20:07	5°♌52'23	0°36'05
asc. node	10037 Jul 23 12:12	13°♌13'04	
evening rise	10037 Jul 27 23:29	22°♌17'11	
	10037 Jul 31 20:35	0°♍	
evening max el	10037 Aug 14 05:08	20°♍32'36	19°41'33
retrograde	10037 Aug 24 03:42	25°♍28'11	
evening set	10037 Aug 26 00:13	25°♍18'40	
desc. node	10037 Aug 26 12:46	25°♍12'40	
inferior conj	10037 Sep 03 20:46	21°♍15'51	-2°33'29
minimum elong	10037 Sep 03 13:52	21°♍26'36	2°31'02
min. Earth dist.	10037 Sep 06 01:41	19°♍53'32	0.55331 AU
morning rise	10037 Sep 12 01:29	16°♍52'58	
direct	10037 Sep 16 21:00	16°♍01'38	
morning max el	10037 Sep 30 17:46	22°♍55'41	24°45'22
	10037 Oct 07 01:28	0°♎	
asc. node	10037 Oct 19 12:30	19°♎47'54	
	10037 Oct 24 15:40	0°♏	
morning set	10037 Oct 26 13:00	3°♏59'10	
superior conj	10037 Nov 02 09:16	18°♏55'42	1°38'55
minimum elong	10037 Nov 02 08:32	18°♏51'40	1°39'11
max. Earth dist.	10037 Nov 04 05:08	22°♏55'06	1.32450 AU
	10037 Nov 07 12:35	0°♐	
evening rise	10037 Nov 09 16:00	4°♐26'44	
desc. node	10037 Nov 22 10:52	28°♐06'44	
	10037 Nov 23 14:33	0°♑	
evening max el	10037 Dec 12 20:59	25°♑12'17	27°30'35
	10037 Dec 18 22:32	0°♒	
retrograde	10037 Dec 26 15:10	2°♒31'18	
evening set	10038 Jan 02 15:27	0°♒04'06	
	10038 Jan 02 17:48	30°℞♑	
min. Earth dist.	10038 Jan 06 09:11	26°♑55'42	0.63115 AU
inferior conj	10038 Jan 09 03:21	24°♑12'46	-2°05'36
minimum elong	10038 Jan 09 07:26	24°♑02'41	2°03'33
asc. node	10038 Jan 15 11:59	19°♑13'06	
morning rise	10038 Jan 16 01:33	18°♑59'22	
direct	10038 Jan 18 09:34	18°♑33'31	
morning max el	10038 Jan 25 00:00	21°♑57'08	17°47'08
	10038 Jan 31 05:15	0°♒	
morning set	10038 Feb 10 04:30	16°♒46'00	
	10038 Feb 17 20:55	0°♓	
desc. node	10038 Feb 18 10:35	0°♓57'47	
superior conj	10038 Feb 22 07:11	7°♓24'42	-0°28'31
minimum elong	10038 Feb 22 04:13	7°♓12'28	0°27'54
max. Earth dist.	10038 Feb 28 14:53	17°♓41'23	1.44308 AU
	10038 Mar 08 10:56	0°♈	
evening rise	10038 Mar 09 11:44	1°♈35'39	
	10038 Mar 28 16:44	0°♉	
evening max el	10038 Apr 08 00:35	12°♉51'41	20°54'40
asc. node	10038 Apr 13 10:13	17°♉02'21	
retrograde	10038 Apr 16 10:27	17°♉47'01	
evening set	10038 Apr 20 14:32	16°♉08'44	
inferior conj	10038 Apr 25 21:24	9°♉57'59	3°05'28
minimum elong	10038 Apr 25 19:56	10°♉03'04	3°05'01
min. Earth dist.	10038 Apr 26 08:43	9°♉18'49	0.68232 AU
morning rise	10038 May 01 01:06	3°♉42'08	
direct	10038 May 06 09:43	1°♉20'07	
morning max el	10038 May 17 03:14	7°♉44'11	23°41'12
desc. node	10038 May 17 11:05	8°♉04'12	
	10038 Jun 03 12:24	0°♊	
morning set	10038 Jun 21 08:31	28°♊05'07	
	10038 Jun 22 11:25	0°♋	
max. Earth dist.	10038 Jun 25 05:39	4°♋47'44	1.38830 AU
superior conj	10038 Jul 02 17:16	18°♋24'43	-1°09'06
minimum elong	10038 Jul 02 21:49	18°♋46'09	1°08'47
	10038 Jul 08 18:19	0°♌	
asc. node	10038 Jul 10 09:08	3°♌09'13	
evening rise	10038 Jul 11 21:25	6°♌06'15	
	10038 Jul 25 21:54	0°♍	
evening max el	10038 Jul 28 03:10	2°♍27'49	18°48'45
retrograde	10038 Aug 05 12:20	6°♍38'28	
evening set	10038 Aug 07 11:09	6°♍25'44	
desc. node	10038 Aug 13 09:59	3°♍37'00	
inferior conj	10038 Aug 15 14:12	2°♍05'22	-0°40'20
minimum elong	10038 Aug 15 12:32	2°♍08'24	0°39'54
	10038 Aug 18 11:46	30°℞♌	
min. Earth dist.	10038 Aug 18 16:42	29°♌51'25	0.56843 AU
morning rise	10038 Aug 23 10:36	27°♌05'21	
direct	10038 Aug 29 01:12	25°♌49'28	
	10038 Sep 08 13:39	0°♍	
morning max el	10038 Sep 12 07:47	3°♍13'51	26°19'47
	10038 Oct 01 12:28	0°♎	
asc. node	10038 Oct 06 09:22	9°♎11'56	
morning set	10038 Oct 10 23:41	18°♎40'21	
	10038 Oct 16 04:06	0°♏	
superior conj	10038 Oct 17 20:24	3°♏43'45	1°32'07

minimum elong	10038 Oct	17	18:47	3°♏34'46	1°32'11
max. Earth dist.	10038 Oct	18	12:37	5°♏13'43	1.31735 AU
evening rise	10038 Oct	24	18:33	18°♏47'31	
	10038 Oct	30	08:00	0°♐	
desc. node	10038 Nov	09	07:58	17°♐28'37	
	10038 Nov	18	04:35	0°♑	
evening max el	10038 Nov	25	04:10	7°♑41'58	27°13'57
retrograde	10038 Dec	09	01:14	14°♑54'10	
evening set	10038 Dec	16	01:07	12°♑42'48	
min. Earth dist.	10038 Dec	19	18:43	9°♑57'27	0.61091 AU
inferior conj	10038 Dec	22	20:57	7°♑16'20	-3°19'45
minimum elong	10038 Dec	23	03:31	7°♑02'01	3°17'01
morning rise	10038 Dec	30	08:26	2°♑22'13	
direct	10039 Jan	01	12:36	2°♑02'47	
asc. node	10039 Jan	02	09:05	2°♑05'52	
morning max el	10039 Jan	08	15:32	5°♑37'28	17°55'25
morning set	10039 Jan	24	06:44	0°♒10'02	
	10039 Jan	24	04:32	0°♒	
superior conj	10039 Feb	03	17:08	18°♒53'44	0°12'04
minimum elong	10039 Feb	03	18:11	18°♒58'18	0°12'13
behind sun begin	10039 Feb	03	12:50	18°♒35'01	
behind sun end	10039 Feb	03	23:32	19°♒21'33	
desc. node	10039 Feb	05	07:23	21°♒39'05	
	10039 Feb	10	06:03	0°♓	
max. Earth dist.	10039 Feb	11	05:09	1°♓35'23	1.42700 AU
evening rise	10039 Feb	17	08:41	11°♓29'56	
	10039 Mar	01	12:25	0°♈	
evening max el	10039 Mar	21	19:23	26°♈34'44	22°09'48
	10039 Mar	25	17:08	0°♉	
retrograde	10039 Mar	31	07:50	2°♉12'40	
asc. node	10039 Mar	31	07:25	2°♉12'40	
evening set	10039 Apr	04	22:38	0°♉19'02	
	10039 Apr	05	07:26	30°℞♈	
inferior conj	10039 Apr	10	06:08	23°♈58'20	2°43'11
minimum elong	10039 Apr	10	04:06	24°♈05'26	2°42'35
min. Earth dist.	10039 Apr	10	04:39	24°♈03'33	0.68580 AU
morning rise	10039 Apr	15	09:26	17°♈47'17	
direct	10039 Apr	20	04:20	15°♈45'22	
morning max el	10039 Apr	29	14:55	21°♈17'36	22°12'13
desc. node	10039 May	04	07:57	26°♈33'27	
	10039 May	07	01:49	0°♉	
	10039 May	27	18:39	0°♊	
morning set	10039 Jun	01	20:58	8°♊06'12	
max. Earth dist.	10039 Jun	07	04:37	16°♊52'03	1.41089 AU
superior conj	10039 Jun	14	23:00	0°♋17'36	-1°39'46
minimum elong	10039 Jun	15	05:11	0°♋45'10	1°39'29
	10039 Jun	14	19:02	0°♋	
evening rise	10039 Jun	25	08:47	19°♋22'58	
asc. node	10039 Jun	27	06:05	22°♋53'47	
	10039 Jul	01	03:32	0°♌	
evening max el	10039 Jul	11	10:09	15°♌00'56	18°16'49
retrograde	10039 Jul	18	16:14	18°♌40'15	
evening set	10039 Jul	20	21:51	18°♌20'10	
inferior conj	10039 Jul	28	05:27	13°♌39'20	0°54'34
minimum elong	10039 Jul	28	07:13	13°♌35'35	0°53'35
desc. node	10039 Jul	31	07:10	11°♌03'34	
min. Earth dist.	10039 Jul	31	14:12	10°♌49'19	0.58894 AU
morning rise	10039 Aug	04	13:15	8°♌04'43	
direct	10039 Aug	10	19:18	6°♌19'03	
morning max el	10039 Aug	25	04:26	14°♌05'35	27°26'10
	10039 Sep	06	22:17	0°♍	
asc. node	10039 Sep	23	06:12	28°♍54'07	
	10039 Sep	23	19:02	0°♎	
morning set	10039 Sep	25	07:32	3°♎10'26	

superior conj	10039 Oct	02	08:09	18°♎30'10	1°19'49
minimum elong	10039 Oct	02	06:01	18°♎18'15	1°19'39
max. Earth dist.	10039 Oct	01	22:15	17°♎35'02	1.31491 AU
	10039 Oct	07	13:02	0°♏	
evening rise	10039 Oct	09	02:07	3°♏19'53	
	10039 Oct	23	04:54	0°♐	
desc. node	10039 Oct	27	05:08	6°♐08'17	
evening max el	10039 Nov	07	04:16	19°♐22'20	26°23'15
retrograde	10039 Nov	21	02:23	26°♐28'04	
evening set	10039 Nov	27	16:26	24°♐42'18	
min. Earth dist.	10039 Dec	01	17:37	22°♐07'28	0.58974 AU
inferior conj	10039 Dec	04	21:43	19°♐43'37	-4°30'37
minimum elong	10039 Dec	05	05:34	19°♐28'44	4°28'09
morning rise	10039 Dec	12	21:18	15°♐11'43	
direct	10039 Dec	15	01:28	14°♐55'23	
asc. node	10039 Dec	20	06:08	16°♐34'31	
morning max el	10039 Dec	23	01:31	18°♐50'39	18°23'30
	10039 Dec	31	04:55	0°♑	
morning set	10040 Jan	07	22:22	14°♑10'58	
	10040 Jan	16	06:50	0°♒	
superior conj	10040 Jan	17	01:41	1°♒26'52	0°45'39
minimum elong	10040 Jan	17	04:36	1°♒40'15	0°45'36
desc. node	10040 Jan	23	04:14	12°♒22'02	
max. Earth dist.	10040 Jan	24	14:22	14°♒49'28	1.40678 AU
evening rise	10040 Jan	29	00:54	22°♒17'20	
	10040 Feb	02	19:30	0°♓	
	10040 Feb	23	13:19	0°♈	
evening max el	10040 Mar	03	10:29	10°♈20'28	23°29'50
retrograde	10040 Mar	14	02:40	16°♈38'46	
asc. node	10040 Mar	17	04:37	15°♈53'12	
evening set	10040 Mar	19	05:02	14°♈30'56	
min. Earth dist.	10040 Mar	24	01:23	8°♈50'12	0.68493 AU
inferior conj	10040 Mar	24	14:58	8°♈03'33	2°11'26
minimum elong	10040 Mar	24	12:46	8°♈11'07	2°10'45
morning rise	10040 Mar	29	20:29	1°♈58'27	
direct	10040 Apr	03	01:54	0°♈18'27	
morning max el	10040 Apr	11	08:11	5°♈02'08	20°50'31
desc. node	10040 Apr	20	04:47	15°♈45'10	
	10040 Apr	30	03:58	0°♉	
morning set	10040 May	11	07:55	16°♉59'22	
max. Earth dist.	10040 May	19	09:33	29°♉48'38	1.43093 AU
	10040 May	19	12:21	0°♊	
superior conj	10040 May	26	06:37	11°♊10'45	-2°03'10
minimum elong	10040 May	26	11:59	11°♊33'22	2°03'14
	10040 Jun	06	02:54	0°♋	
evening rise	10040 Jun	07	05:16	1°♋57'02	
asc. node	10040 Jun	13	03:05	12°♋22'02	
evening max el	10040 Jun	23	22:17	28°♋02'51	18°04'44
	10040 Jun	26	06:44	0°♌	
retrograde	10040 Jun	30	12:31	1°♌25'57	
evening set	10040 Jul	03	01:57	0°♌55'09	
	10040 Jul	04	20:41	30°℞♋	
inferior conj	10040 Jul	09	16:33	25°♋54'38	2°03'19
minimum elong	10040 Jul	09	19:24	25°♋47'40	2°02'06
min. Earth dist.	10040 Jul	12	20:01	22°♋51'08	0.61156 AU
morning rise	10040 Jul	16	10:17	19°♋55'35	
desc. node	10040 Jul	17	04:19	19°♋26'59	
direct	10040 Jul	23	01:35	17°♋41'22	
morning max el	10040 Aug	06	07:52	25°♋41'19	27°55'34
	10040 Aug	10	07:36	0°♌	
	10040 Aug	30	10:30	0°♍	
morning set	10040 Sep	08	10:43	17°♍24'15	
asc. node	10040 Sep	09	03:02	18°♍48'52	
	10040 Sep	14	08:16	0°♎	
max. Earth dist.	10040 Sep	14	06:15	29°♍48'56	1.31731 AU

superior conj	10040 Sep 15 18:44	3°♎09'31	1°02'20
minimum elong	10040 Sep 15 16:31	2°♎57'20	1°01'57
evening rise	10040 Sep 22 12:36	17°♎58'07	
	10040 Sep 28 08:52	0°♏	
desc. node	10040 Oct 13 02:20	23°♏48'54	
	10040 Oct 18 15:16	0°♐	
evening max el	10040 Oct 18 20:14	0°♐11'56	25°02'43
retrograde	10040 Nov 01 16:46	7°♐09'59	
evening set	10040 Nov 07 08:40	5°♐57'29	
min. Earth dist.	10040 Nov 12 07:59	3°♐15'15	0.57002 AU
inferior conj	10040 Nov 15 02:41	1°♐25'28	-5°25'01
minimum elong	10040 Nov 15 08:24	1°♐16'01	5°23'52
	10040 Nov 17 07:49	30°℞♏	
morning rise	10040 Nov 23 10:25	27°♏15'50	
direct	10040 Nov 25 20:03	26°♏59'18	
	10040 Dec 03 11:18	0°♐	
morning max el	10040 Dec 05 02:03	1°♐24'57	19°13'06
asc. node	10040 Dec 06 03:09	2°♐28'23	
morning set	10040 Dec 21 23:04	28°♐35'21	
	10040 Dec 22 16:04	0°♑	
superior conj	10040 Dec 30 03:46	14°♑48'42	1°10'55
minimum elong	10040 Dec 30 06:51	15°♑03'36	1°10'57
max. Earth dist.	10041 Jan 05 20:16	27°♑20'38	1.38483 AU
	10041 Jan 07 07:47	0°♒	
desc. node	10041 Jan 09 01:09	3°♒02'21	
evening rise	10041 Jan 09 14:43	4°♒01'28	
	10041 Jan 25 21:57	0°♓	
evening max el	10041 Feb 13 23:59	24°♓09'11	24°48'37
	10041 Feb 21 16:57	0°♈	
retrograde	10041 Feb 25 17:39	0°♈59'32	
	10041 Mar 01 10:15	30°℞♓	
evening set	10041 Mar 03 08:09	28°♓39'26	
asc. node	10041 Mar 04 01:49	27°♓59'30	
min. Earth dist.	10041 Mar 07 20:43	23°♓33'29	0.67989 AU
inferior conj	10041 Mar 08 22:00	22°♓09'45	1°30'35
minimum elong	10041 Mar 08 20:07	22°♓16'01	1°30'00
morning rise	10041 Mar 14 08:17	16°♓11'58	
direct	10041 Mar 18 01:06	14°♓53'19	
morning max el	10041 Mar 25 09:04	18°♓58'14	19°41'28
	10041 Apr 03 06:25	0°♈	
greatest brilliancy	10041 Apr 07 03:16	5°♈33'38	-0.6m
desc. node	10041 Apr 07 01:37	5°♈27'36	
morning set	10041 Apr 20 06:23	25°♈23'51	
	10041 Apr 23 05:55	0°♉	
max. Earth dist.	10041 May 01 21:18	13°♉31'50	1.44608 AU
superior conj	10041 May 06 13:55	21°♉01'34	-2°12'52
minimum elong	10041 May 06 14:10	21°♉02'33	2°13'11
	10041 May 12 02:12	0°♊	
evening rise	10041 May 20 06:02	13°♊37'39	
	10041 May 30 01:48	0°♋	
asc. node	10041 May 31 00:08	1°♋27'58	
evening max el	10041 Jun 07 12:01	11°♋24'32	18°11'32
retrograde	10041 Jun 13 20:49	14°♋45'57	
evening set	10041 Jun 16 18:05	14°♋02'00	
inferior conj	10041 Jun 22 19:32	8°♋43'18	2°47'29
minimum elong	10041 Jun 22 21:55	8°♋36'42	2°46'35
min. Earth dist.	10041 Jun 25 10:53	5°♋49'14	0.63343 AU
morning rise	10041 Jun 29 00:11	2°♋30'24	
desc. node	10041 Jul 04 01:27	0°♋04'49	
	10041 Jul 04 13:48	30°℞♊	
direct	10041 Jul 05 17:32	29°♊55'38	
	10041 Jul 06 21:47	0°♋	
morning max el	10041 Jul 19 16:02	7°♋58'33	27°46'53
	10041 Aug 05 15:03	0°♌	
	10041 Aug 22 15:49	0°♍	
morning set	10041 Aug 23 06:59	1°♍15'39	
asc. node	10041 Aug 26 23:53	8°♍51'25	
max. Earth dist.	10041 Aug 28 08:48	11°♍45'04	1.32468 AU
superior conj	10041 Aug 31 02:15	17°♍36'16	0°39'57
minimum elong	10041 Aug 31 00:30	17°♍26'50	0°39'29
	10041 Sep 05 19:00	0°♎	
evening rise	10041 Sep 07 00:09	2°♎36'45	
	10041 Sep 21 19:11	0°♏	
desc. node	10041 Sep 29 23:34	10°♏08'05	
evening max el	10041 Sep 30 07:18	10°♏27'02	23°24'46
retrograde	10041 Oct 13 18:15	17°♏09'44	
evening set	10041 Oct 18 00:58	16°♏29'53	
min. Earth dist.	10041 Oct 24 17:10	13°♏21'57	0.55480 AU
inferior conj	10041 Oct 26 11:45	12°♏19'26	-5°43'05
minimum elong	10041 Oct 26 10:38	12°♏21'05	5°42'47
morning rise	10041 Nov 03 22:09	8°♏27'07	
direct	10041 Nov 06 19:48	8°♏06'39	
morning max el	10041 Nov 17 13:52	13°♏11'11	20°25'19
asc. node	10041 Nov 23 00:07	19°♏32'14	
	10041 Nov 29 11:26	0°♐	
morning set	10041 Dec 06 05:40	13°♐14'31	
superior conj	10041 Dec 13 18:45	28°♐46'12	1°27'59
minimum elong	10041 Dec 13 21:02	28°♐57'48	1°28'12
	10041 Dec 14 09:21	0°♑	
max. Earth dist.	10041 Dec 19 03:36	9°♑22'38	1.36367 AU
evening rise	10041 Dec 23 00:07	16°♑36'18	
desc. node	10041 Dec 26 22:07	23°♑36'08	
	10041 Dec 30 16:21	0°♒	
	10042 Jan 20 08:40	0°♓	
evening max el	10042 Jan 27 13:25	7°♓58'11	25°58'59
retrograde	10042 Feb 09 03:44	15°♓09'03	
evening set	10042 Feb 15 06:21	12°♓39'43	
asc. node	10042 Feb 18 23:01	8°♓49'06	
min. Earth dist.	10042 Feb 19 12:20	8°♓08'30	0.67086 AU
inferior conj	10042 Feb 21 01:19	6°♓12'58	0°40'46
minimum elong	10042 Feb 21 00:18	6°♓16'08	0°40'34
morning rise	10042 Feb 26 18:52	0°♓24'25	
	10042 Feb 27 12:52	30°℞♒	
direct	10042 Mar 02 00:20	29°♒24'57	
	10042 Mar 04 13:38	0°♓	
morning max el	10042 Mar 08 17:29	3°♓03'26	18°47'52
desc. node	10042 Mar 24 22:26	25°♓32'30	
	10042 Mar 27 19:16	0°♈	
morning set	10042 Mar 30 16:05	4°♈28'22	
max. Earth dist.	10042 Apr 14 14:40	27°♈48'46	1.45471 AU
superior conj	10042 Apr 16 01:24	0°♉04'57	-2°03'17
minimum elong	10042 Apr 15 18:25	29°♈37'33	2°03'05
	10042 Apr 16 00:08	0°♉	
evening rise	10042 May 01 07:23	24°♉19'01	
	10042 May 04 19:58	0°♊	
greatest brilliancy	10042 May 07 11:35	4°♊16'00	-0.9m
asc. node	10042 May 17 21:15	20°♊03'42	
evening max el	10042 May 22 00:20	24°♊57'52	18°36'21
retrograde	10042 May 28 13:02	28°♊31'17	
evening set	10042 May 31 18:10	27°♊32'45	
inferior conj	10042 Jun 06 10:20	21°♊57'13	3°11'22
minimum elong	10042 Jun 06 11:37	21°♊53'18	3°10'50
min. Earth dist.	10042 Jun 08 10:49	19°♊30'23	0.65254 AU
morning rise	10042 Jun 12 04:16	15°♊38'14	
direct	10042 Jun 18 17:14	12°♊54'09	
desc. node	10042 Jun 20 22:32	13°♊10'49	
morning max el	10042 Jul 02 02:24	20°♊47'46	27°04'33
	10042 Jul 10 00:53	0°♋	
	10042 Jul 29 18:21	0°♌	

morning set	10042 Aug 06	17:26	14°♌36'02	
max. Earth dist.	10042 Aug 11	02:31	23°♌16'06	1.33709 AU
asc. node	10042 Aug 13	20:45	28°♌56'51	
	10042 Aug 14	08:50	0°♍	
superior conj	10042 Aug 15	04:29	1°♍43'06	0°13'06
minimum elong	10042 Aug 15	03:49	1°♍39'35	0°12'43
behind sun begin	10042 Aug 15	00:21	1°♍21'23	
behind sun end	10042 Aug 15	07:17	1°♍57'49	
evening rise	10042 Aug 22	10:46	17°♍09'10	
	10042 Aug 28	19:34	0°♎	
evening max el	10042 Sep 11	21:25	20°♎38'57	21°46'20
desc. node	10042 Sep 16	20:49	24°♎36'06	
retrograde	10042 Sep 24	08:37	26°♎50'49	
evening set	10042 Sep 27	05:18	26°♎32'22	
inferior conj	10042 Oct 06	06:31	22°♎34'36	-5°06'52
minimum elong	10042 Oct 05	22:06	22°♎46'21	5°05'08
min. Earth dist.	10042 Oct 06	00:29	22°♎43'01	0.54690 AU
morning rise	10042 Oct 14	16:08	18°♎46'32	
direct	10042 Oct 18	06:10	18°♎18'29	
morning max el	10042 Oct 30	12:19	24°♎06'47	21°58'31
	10042 Nov 04	18:24	0°♏	
asc. node	10042 Nov 09	21:04	7°♏30'16	
morning set	10042 Nov 20	15:48	28°♏01'14	
	10042 Nov 21	14:20	0°♐	
superior conj	10042 Nov 27	18:50	13°♐08'27	1°37'30
minimum elong	10042 Nov 27	19:57	13°♐14'19	1°37'50
max. Earth dist.	10042 Dec 01	17:04	21°♐16'12	1.34520 AU
evening rise	10042 Dec 06	01:24	29°♐52'10	
	10042 Dec 06	03:01	0°♑	
desc. node	10042 Dec 13	19:08	13°♑58'41	
	10042 Dec 23	19:07	0°♒	
evening max el	10043 Jan 10	02:59	21°♒39'58	26°53'34
retrograde	10043 Jan 23	08:08	29°♒00'32	
evening set	10043 Jan 29	21:46	26°♒26'21	
min. Earth dist.	10043 Feb 02	21:57	22°♒29'28	0.65806 AU
inferior conj	10043 Feb 04	22:45	20°♒08'26	-0°17'46
minimum elong	10043 Feb 04	23:15	20°♒07'00	0°17'15
asc. node	10043 Feb 05	20:13	19°♒06'52	
morning rise	10043 Feb 11	01:55	14°♒31'31	
direct	10043 Feb 13	21:33	13°♒48'03	
morning max el	10043 Feb 20	07:42	17°♒12'21	18°10'50
	10043 Mar 01	21:03	0°♓	
morning set	10043 Mar 11	05:02	14°♓56'16	
desc. node	10043 Mar 11	19:14	15°♓53'39	
	10043 Mar 20	14:27	0°♈	
superior conj	10043 Mar 26	07:48	9°♈02'04	-1°34'20
minimum elong	10043 Mar 25	22:20	8°♈24'53	1°33'24
max. Earth dist.	10043 Mar 28	10:47	12°♈21'55	1.45589 AU
	10043 Apr 08	18:17	0°♉	
evening rise	10043 Apr 11	10:13	4°♉08'34	
greatest brilliancy	10043 Apr 23	08:43	22°♉33'22	-0.7m
	10043 Apr 28	10:32	0°♊	
asc. node	10043 May 04	18:24	7°♊59'55	
evening max el	10043 May 05	08:54	8°♊37'28	19°18'17
retrograde	10043 May 12	09:51	12°♊35'25	
evening set	10043 May 15	23:13	11°♊21'35	
inferior conj	10043 May 21	09:33	5°♊30'50	3°19'05
minimum elong	10043 May 21	09:38	5°♊30'35	3°18'42
min. Earth dist.	10043 May 22	18:54	3°♊42'16	0.66765 AU
	10043 May 25	22:51	30°℞♉	
morning rise	10043 May 26	19:38	29°♉10'39	
direct	10043 Jun 01	23:32	26°♉28'23	
desc. node	10043 Jun 07	19:32	28°♉23'20	
	10043 Jun 10	03:10	0°♊	
morning max el	10043 Jun 14	12:58	3°♊58'49	25°56'34
	10043 Jul 04	09:08	0°♋	
morning set	10043 Jul 20	14:32	27°♋16'48	
	10043 Jul 22	01:41	0°♌	
max. Earth dist.	10043 Jul 24	09:48	4°♌26'12	1.35430 AU
superior conj	10043 Jul 29	22:55	15°♌23'55	-0°17'26
minimum elong	10043 Jul 29	23:58	15°♌29'14	0°17'34
asc. node	10043 Jul 31	17:39	19°♌01'45	
	10043 Aug 06	01:00	0°♍	
evening rise	10043 Aug 06	18:29	1°♍30'09	
	10043 Aug 23	15:38	0°♎	
evening max el	10043 Aug 24	22:43	1°♎21'31	20°21'20
desc. node	10043 Sep 03	18:03	6°♎43'38	
retrograde	10043 Sep 04	21:06	6°♎46'58	
evening set	10043 Sep 06	21:17	6°♎36'47	
inferior conj	10043 Sep 15	23:48	2°♎39'12	-3°38'10
minimum elong	10043 Sep 15	14:33	2°♎52'44	3°35'10
min. Earth dist.	10043 Sep 17	09:18	1°♎50'09	0.54823 AU
	10043 Sep 20	18:08	30°℞♍	
morning rise	10043 Sep 24	07:08	28°♍34'14	
direct	10043 Sep 28	15:11	27°♍53'49	
	10043 Oct 06	03:58	0°♎	
morning max el	10043 Oct 12	01:46	4°♎25'38	23°44'34
asc. node	10043 Oct 27	17:59	26°♎09'29	
	10043 Oct 29	19:40	0°♏	
morning set	10043 Nov 05	03:28	12°♏49'45	
superior conj	10043 Nov 12	01:02	27°♏46'32	1°40'12
minimum elong	10043 Nov 12	00:56	27°♏45'59	1°40'32
	10043 Nov 13	01:45	0°♐	
max. Earth dist.	10043 Nov 14	14:26	3°♐16'16	1.33068 AU
evening rise	10043 Nov 19	14:54	13°♐39'40	
	10043 Nov 28	07:26	0°♑	
desc. node	10043 Nov 30	16:11	4°♑04'05	
	10043 Dec 18	20:23	0°♒	
evening max el	10043 Dec 23	15:31	5°♒03'15	27°25'15
retrograde	10044 Jan 06	06:14	12°♒25'11	
evening set	10044 Jan 13	04:03	9°♒52'42	
min. Earth dist.	10044 Jan 16	23:27	6°♒28'06	0.64180 AU
inferior conj	10044 Jan 19	11:46	3°♒49'49	-1°24'20
minimum elong	10044 Jan 19	14:25	3°♒42'53	1°22'51
asc. node	10044 Jan 23	17:23	29°♑51'25	
	10044 Jan 23	12:52	30°℞♑	
morning rise	10044 Jan 26	02:37	28°♑27'16	
direct	10044 Jan 28	14:12	27°♑56'09	
	10044 Feb 02	14:21	0°♒	
morning max el	10044 Feb 04	00:57	1°♒17'09	17°50'46
morning set	10044 Feb 20	22:20	26°♒46'52	
	10044 Feb 22	20:02	0°♓	
desc. node	10044 Feb 26	16:00	6°♓25'42	
superior conj	10044 Mar 05	03:27	18°♓41'23	-0°53'29
minimum elong	10044 Mar 04	21:34	18°♓17'37	0°52'34
max. Earth dist.	10044 Mar 10	06:03	26°♓50'47	1.44969 AU
	10044 Mar 12	06:05	0°♈	
evening rise	10044 Mar 20	23:01	13°♈30'13	
	10044 Mar 31	20:42	0°♉	
evening max el	10044 Apr 17	12:07	22°♉18'40	20°15'42
asc. node	10044 Apr 20	15:36	25°♉03'26	
retrograde	10044 Apr 25	08:31	26°♉51'30	
evening set	10044 Apr 29	06:52	25°♉22'11	
inferior conj	10044 May 04	14:17	19°♉17'59	3°13'41
minimum elong	10044 May 04	13:18	19°♉21'21	3°13'18
min. Earth dist.	10044 May 05	09:21	18°♉12'59	0.67828 AU
morning rise	10044 May 09	19:28	12°♉59'47	
direct	10044 May 15	11:30	10°♉28'22	

desc. node	10044 May 24	16:29	15°♉11'27		
morning max el	10044 May 26	22:37	17°♉20'47	24°32'36	
	10044 Jun 06	11:50	0°♊		
	10044 Jun 26	09:34	0°♋		
morning set	10044 Jul 01	17:38	9°♋05'59		
max. Earth dist.	10044 Jul 05	08:33	15°♋33'12	1.37526 AU	
superior conj	10044 Jul 12	06:21	28°♋30'42	-0°50'11	
minimum elong	10044 Jul 12	09:36	28°♋46'26	0°49'59	
	10044 Jul 13	00:45	0°♌		
asc. node	10044 Jul 17	14:35	9°♌02'15		
evening rise	10044 Jul 20	20:49	15°♌32'55		
	10044 Jul 28	10:52	0°♍		
evening max el	10044 Aug 06	13:46	12°♍50'35	19°16'27	
retrograde	10044 Aug 15	19:45	17°♍26'06		
evening set	10044 Aug 17	16:01	17°♍15'55		
desc. node	10044 Aug 20	15:14	16°♍20'32		
inferior conj	10044 Aug 26	05:50	13°♍06'29	-1°44'21	
minimum elong	10044 Aug 26	01:12	13°♍14'10	1°42'42	
min. Earth dist.	10044 Aug 28	21:55	11°♍20'41	0.55882 AU	
morning rise	10044 Sep 03	07:33	8°♍27'46		
direct	10044 Sep 08	11:09	7°♍26'58		
morning max el	10044 Sep 22	13:44	14°♍35'52	25°28'13	
	10044 Oct 04	19:28	0°♎		
asc. node	10044 Oct 13	14:51	15°♎19'44		
morning set	10044 Oct 19	14:58	27°♎35'14		
	10044 Oct 20	17:53	0°♏		
superior conj	10044 Oct 26	10:59	12°♏33'19	1°36'43	
minimum elong	10044 Oct 26	09:50	12°♏27'00	1°36'56	
max. Earth dist.	10044 Oct 27	18:46	15°♏28'16	1.32077 AU	
evening rise	10044 Nov 02	13:29	27°♏50'49		
	10044 Nov 03	14:36	0°♐		
desc. node	10044 Nov 16	13:16	23°♐44'59		
	10044 Nov 20	13:28	0°♑		
evening max el	10044 Dec 05	01:19	17°♑56'20	27°27'42	
retrograde	10044 Dec 18	21:21	25°♑13'41		
evening set	10044 Dec 25	22:19	22°♑51'47		
min. Earth dist.	10044 Dec 29	15:13	19°♑54'28	0.62269 AU	
inferior conj	10045 Jan 01	13:26	17°♑10'10	-2°36'52	
minimum elong	10045 Jan 01	18:37	16°♑58'00	2°34'28	
morning rise	10045 Jan 08	17:20	12°♑04'51		
asc. node	10045 Jan 09	14:28	11°♑50'42		
direct	10045 Jan 10	23:11	11°♑42'17		
morning max el	10045 Jan 17	18:07	15°♑09'40	17°48'22	
	10045 Jan 28	01:54	0°♒		
morning set	10045 Feb 02	14:28	9°♒42'53		
desc. node	10045 Feb 12	12:50	27°♒05'05		
superior conj	10045 Feb 13	23:01	29°♒30'01	-0°10'42	
minimum elong	10045 Feb 13	22:00	29°♒25'44	0°10'17	
behind sun begin	10045 Feb 13	15:09	28°♒56'46		
behind sun end	10045 Feb 14	04:51	29°♒54'40		
	10045 Feb 14	06:08	0°♓		
max. Earth dist.	10045 Feb 20	22:10	11°♓00'10	1.43687 AU	
evening rise	10045 Feb 28	12:53	23°♓03'08		
	10045 Mar 05	01:30	0°♈		
	10045 Mar 26	03:39	0°♉		
evening max el	10045 Mar 31	09:47	6°♉01'10	21°25'37	
asc. node	10045 Apr 07	12:46	10°♉59'40		
retrograde	10045 Apr 09	06:51	11°♉14'54		
evening set	10045 Apr 13	15:16	9°♉30'13		
inferior conj	10045 Apr 18	22:10	3°♉14'50	2°57'13	
minimum elong	10045 Apr 18	20:25	3°♉20'56	2°56'41	
min. Earth dist.	10045 Apr 19	04:00	2°♉54'33	0.68437 AU	
	10045 Apr 21	07:46	30°℞♈		
morning rise	10045 Apr 24	01:21	27°♈00'35		
direct	10045 Apr 29	04:08	24°♈46'35		
	10045 May 08	12:31	0°♉		
morning max el	10045 May 09	08:33	0°♉49'19	23°02'43	
desc. node	10045 May 11	13:23	3°♉09'37		
	10045 May 31	09:01	0°♊		
morning set	10045 Jun 12	21:24	19°♊49'34		
max. Earth dist.	10045 Jun 17	05:01	27°♊07'48	1.39804 AU	
	10045 Jun 18	20:44	0°♋		
superior conj	10045 Jun 24	22:47	10°♋53'57	-1°22'41	
minimum elong	10045 Jun 25	04:12	11°♋18'50	1°22'19	
asc. node	10045 Jul 04	11:32	28°♋54'02		
evening rise	10045 Jul 04	14:41	29°♋09'08		
	10045 Jul 05	01:19	0°♌		
evening max el	10045 Jul 20	16:09	25°♌03'33	18°32'43	
retrograde	10045 Jul 28	12:21	28°♌58'43		
evening set	10045 Jul 30	13:49	28°♌43'21		
inferior conj	10045 Aug 07	08:32	24°♌14'46	0°02'59	
minimum elong	10045 Aug 07	08:38	24°♌14'34	0°02'39	
transit middle	10045 Aug 07	08:38	24°♌14'34	0°02'39	
transit begin	10045 Aug 07	05:04	24°♌21'26		
transit end	10045 Aug 07	12:11	24°♌07'41		
desc. node	10045 Aug 07	12:26	24°♌07'11		
min. Earth dist.	10045 Aug 10	15:39	21°♌42'40	0.57668 AU	
morning rise	10045 Aug 14	23:54	18°♌59'04		
direct	10045 Aug 20	21:56	17°♌30'24		
morning max el	10045 Sep 04	06:11	25°♌05'50	26°52'09	
	10045 Sep 08	19:14	0°♍		
	10045 Sep 28	00:22	0°♎		
asc. node	10045 Sep 30	11:41	4°♎52'14		
morning set	10045 Oct 04	00:37	12°♎12'06		
superior conj	10045 Oct 10	22:36	27°♎21'31	1°27'33	
minimum elong	10045 Oct 10	20:42	27°♎11'01	1°27'32	
max. Earth dist.	10045 Oct 11	03:25	27°♎48'23	1.31567 AU	
	10045 Oct 12	03:06	0°♏		
evening rise	10045 Oct 17	18:25	12°♏17'26		
	10045 Oct 26	17:51	0°♐		
desc. node	10045 Nov 03	10:25	12°♐50'37		
evening max el	10045 Nov 17	05:51	0°♑06'18	26°56'37	
	10045 Nov 17	03:11	0°♑		
retrograde	10045 Dec 01	04:00	7°♑15'54		
evening set	10045 Dec 08	00:43	5°♑14'35		
min. Earth dist.	10045 Dec 11	20:22	2°♑35'15	0.60183 AU	
inferior conj	10045 Dec 15	00:17	29°♐59'31	-3°50'52	
minimum elong	10045 Dec 15	07:39	29°♐44'21	3°48'06	
	10045 Dec 15	00:03	30°℞♐		
morning rise	10045 Dec 22	17:11	25°♐14'22		
direct	10045 Dec 24	20:39	24°♐56'43		
asc. node	10045 Dec 27	11:31	25°♐24'14		
morning max el	10046 Jan 01	07:42	28°♐39'30	18°04'50	
	10046 Jan 02	14:17	0°♑		
morning set	10046 Jan 16	23:01	23°♑24'27		
	10046 Jan 20	12:01	0°♒		
superior conj	10046 Jan 26	19:05	11°♒27'36	0°27'17	
minimum elong	10046 Jan 26	21:11	11°♒36'55	0°27'18	
desc. node	10046 Jan 30	09:41	17°♒47'36		
max. Earth dist.	10046 Feb 03	10:03	24°♒37'27	1.41880 AU	
	10046 Feb 06	16:09	0°♓		
evening rise	10046 Feb 08	17:20	3°♓18'55		
	10046 Feb 26	09:56	0°♈		
evening max el	10046 Mar 14	02:56	19°♈46'06	22°43'39	
retrograde	10046 Mar 24	03:16	25°♈41'31		
asc. node	10046 Mar 25	09:56	25°♈33'32		
evening set	10046 Mar 28	22:50	23°♈41'54		
inferior conj	10046 Apr 03	07:12	17°♈18'07	2°30'52	

minimum elong	10046 Apr 03 05:03	17°♈25'37	2°30'12
min. Earth dist.	10046 Apr 03 00:35	17°♈41'06	0.68599 AU
morning rise	10046 Apr 08 11:07	11°♈09'22	
direct	10046 Apr 13 00:20	9°♈16'26	
morning max el	10046 Apr 21 22:06	14°♈26'56	21°36'06
desc. node	10046 Apr 28 10:15	21°♈58'53	
	10046 May 04 09:21	0°♉	
morning set	10046 May 23 22:25	29°♉20'00	
	10046 May 24 08:28	0°♊	
max. Earth dist.	10046 May 30 06:13	9°♊34'46	1.41992 AU
superior conj	10046 Jun 06 19:43	22°♊23'30	-1°50'56
minimum elong	10046 Jun 07 01:59	22°♊50'46	1°50'47
	10046 Jun 11 03:20	0°♋	
evening rise	10046 Jun 17 20:19	12°♋09'33	
asc. node	10046 Jun 21 08:31	18°♋32'48	
	10046 Jun 28 01:13	0°♌	
evening max el	10046 Jul 04 01:56	7°♌51'10	18°09'20
retrograde	10046 Jul 10 23:41	11°♌21'22	
evening set	10046 Jul 13 08:46	10°♌56'56	
inferior conj	10046 Jul 20 08:41	6°♌07'30	1°26'56
minimum elong	10046 Jul 20 11:10	6°♌01'54	1°25'45
min. Earth dist.	10046 Jul 23 16:19	3°♌09'03	0.59854 AU
desc. node	10046 Jul 25 09:37	1°♌45'20	
morning rise	10046 Jul 27 10:34	0°♌21'32	
	10046 Jul 28 01:29	30°℞♋	
direct	10046 Aug 02 21:37	28°♋23'07	
	10046 Aug 09 00:38	0°♌	
morning max el	10046 Aug 17 05:41	6°♌15'38	27°43'23
	10046 Sep 04 00:56	0°♍	
asc. node	10046 Sep 17 08:33	24°♍40'43	
morning set	10046 Sep 18 06:43	26°♍35'57	
	10046 Sep 19 21:19	0°♎	
max. Earth dist.	10046 Sep 24 12:54	10°♎08'21	1.31540 AU
superior conj	10046 Sep 25 10:04	12°♎05'47	1°13'01
minimum elong	10046 Sep 25 07:50	11°♎53'24	1°12'45
evening rise	10046 Oct 02 03:30	26°♎53'26	
	10046 Oct 03 14:37	0°♏	
	10046 Oct 20 12:17	0°♐	
desc. node	10046 Oct 21 07:36	1°♐07'26	
evening max el	10046 Oct 30 02:40	11°♐25'02	25°52'05
retrograde	10046 Nov 13 00:21	18°♐26'51	
evening set	10046 Nov 19 06:37	16°♐54'54	
min. Earth dist.	10046 Nov 23 15:18	14°♐19'12	0.58105 AU
inferior conj	10046 Nov 26 16:52	12°♐08'18	-4°56'48
minimum elong	10046 Nov 27 00:22	11°♐54'54	4°54'48
morning rise	10046 Dec 04 20:30	7°♐45'42	
direct	10046 Dec 07 02:23	7°♐29'35	
asc. node	10046 Dec 14 08:33	10°♐30'21	
morning max el	10046 Dec 15 13:59	11°♐36'36	18°41'52
	10046 Dec 27 19:42	0°♑	
morning set	10046 Dec 31 18:56	7°♑36'33	
superior conj	10047 Jan 09 11:37	24°♑22'36	0°57'25
minimum elong	10047 Jan 09 14:46	24°♑37'23	0°57'22
	10047 Jan 12 12:25	0°♒	
max. Earth dist.	10047 Jan 16 17:50	7°♒34'06	1.39753 AU
desc. node	10047 Jan 17 06:34	8°♒29'43	
evening rise	10047 Jan 20 18:44	14°♒30'24	
	10047 Jan 30 09:46	0°♓	
	10047 Feb 21 08:59	0°♈	
evening max el	10047 Feb 24 17:13	3°♈33'40	24°03'59
retrograde	10047 Mar 07 20:26	10°♈06'10	
asc. node	10047 Mar 12 07:08	8°♈33'39	
evening set	10047 Mar 13 04:01	7°♈52'48	
min. Earth dist.	10047 Mar 17 20:54	2°♈27'06	0.68331 AU
inferior conj	10047 Mar 18 15:29	1°♈24'09	1°55'13
minimum elong	10047 Mar 18 13:21	1°♈31'23	1°54'33
	10047 Mar 19 16:33	30°℞♓	
morning rise	10047 Mar 23 22:44	25°♓22'09	
direct	10047 Mar 27 22:45	23°♓51'20	
morning max el	10047 Apr 04 18:29	28°♓16'32	20°19'27
	10047 Apr 06 09:58	0°♈	
desc. node	10047 Apr 15 07:06	11°♈24'55	
	10047 Apr 27 21:49	0°♉	
morning set	10047 May 03 01:38	7°♉54'07	
max. Earth dist.	10047 May 12 14:49	22°♉55'26	1.43815 AU
	10047 May 16 23:38	0°♊	
superior conj	10047 May 18 17:02	2°♊50'08	-2°09'20
minimum elong	10047 May 18 20:46	3°♊05'35	2°09'35
evening rise	10047 May 31 09:02	24°♊22'37	
	10047 Jun 03 14:41	0°♋	
asc. node	10047 Jun 08 05:34	7°♋52'39	
evening max el	10047 Jun 17 15:08	21°♋02'37	18°05'17
retrograde	10047 Jun 24 01:47	24°♋23'19	
evening set	10047 Jun 26 18:36	23°♋47'04	
inferior conj	10047 Jul 03 03:05	18°♋38'16	2°24'47
minimum elong	10047 Jul 03 05:51	18°♋31'04	2°23'41
min. Earth dist.	10047 Jul 06 01:46	15°♋36'33	0.62114 AU
morning rise	10047 Jul 09 15:02	12°♋32'11	
desc. node	10047 Jul 12 06:47	11°♋00'23	
direct	10047 Jul 16 07:56	10°♋08'23	
morning max el	10047 Jul 30 11:32	18°♋10'13	27°56'23
	10047 Aug 09 09:35	0°♌	
	10047 Aug 27 20:42	0°♍	
morning set	10047 Sep 02 07:15	10°♍40'59	
asc. node	10047 Sep 04 05:24	14°♍39'24	
max. Earth dist.	10047 Sep 07 19:16	22°♍16'52	1.31990 AU
superior conj	10047 Sep 09 19:35	26°♍40'14	0°53'25
minimum elong	10047 Sep 09 17:29	26°♍28'49	0°52'58
	10047 Sep 11 07:56	0°♎	
evening rise	10047 Sep 16 14:41	11°♎32'33	
	10047 Sep 25 21:16	0°♏	
desc. node	10047 Oct 08 04:49	18°♏16'33	
evening max el	10047 Oct 11 15:44	21°♏56'22	24°22'05
retrograde	10047 Oct 25 09:08	28°♏49'16	
evening set	10047 Oct 30 12:15	27°♏51'07	
min. Earth dist.	10047 Nov 05 02:36	25°♏00'20	0.56283 AU
inferior conj	10047 Nov 07 13:04	23°♏29'18	-5°38'24
minimum elong	10047 Nov 07 16:23	23°♏24'07	5°37'50
morning rise	10047 Nov 15 22:38	19°♏28'27	
direct	10047 Nov 18 12:50	19°♏10'37	
morning max el	10047 Nov 28 09:24	23°♏51'21	19°41'11
asc. node	10047 Dec 01 05:33	26°♏56'01	
	10047 Dec 03 13:35	0°♐	
morning set	10047 Dec 15 22:29	22°♐08'36	
	10047 Dec 19 19:33	0°♑	
superior conj	10047 Dec 23 19:45	8°♑01'37	1°19'08
minimum elong	10047 Dec 23 22:34	8°♑15'33	1°19'14
max. Earth dist.	10047 Dec 29 23:59	19°♑52'00	1.37554 AU
evening rise	10048 Jan 02 17:15	26°♑37'07	
desc. node	10048 Jan 04 03:30	29°♑08'01	
	10048 Jan 04 15:27	0°♒	
	10048 Jan 23 21:53	0°♓	
evening max el	10048 Feb 07 06:29	17°♓23'05	25°20'00
retrograde	10048 Feb 19 09:27	24°♓23'44	
evening set	10048 Feb 25 05:18	21°♓58'55	
asc. node	10048 Feb 27 04:20	20°♓04'12	
min. Earth dist.	10048 Feb 29 14:49	17°♓08'06	0.67651 AU
inferior conj	10048 Mar 01 21:11	15°♓29'51	1°10'33

minimum elong	10048 Mar 01	19:35	15°♓35'01	1°10'06
morning rise	10048 Mar 07	10:17	9°♓36'03	
direct	10048 Mar 10	22:05	8°♓26'01	
morning max el	10048 Mar 17	22:50	12°♓18'03	19°16'48
greatest brilliancy	10048 Mar 30	20:34	29°♓20'39	-0.7m
	10048 Mar 31	07:06	0°♈	
desc. node	10048 Apr 01	03:55	1°♈18'04	
morning set	10048 Apr 11	02:07	16°♈28'33	
	10048 Apr 19	19:16	0°♉	
max. Earth dist.	10048 Apr 24	05:31	6°♉56'25	1.45061 AU
superior conj	10048 Apr 27	14:46	12°♉17'40	-2°11'20
minimum elong	10048 Apr 27	11:50	12°♉06'01	2°11'32
	10048 May 08	13:56	0°♊	
evening rise	10048 May 12	00:15	5°♊39'12	
asc. node	10048 May 25	02:39	26°♊47'12	
	10048 May 27	09:17	0°♋	
evening max el	10048 May 31	04:33	4°♋30'07	18°19'48
retrograde	10048 Jun 06	14:04	7°♋55'22	
evening set	10048 Jun 09	14:33	7°♋05'27	
inferior conj	10048 Jun 15	11:36	1°♋39'15	2°59'48
minimum elong	10048 Jun 15	13:34	1°♋33'34	2°59'04
	10048 Jun 16	21:50	30°℞♊	
min. Earth dist.	10048 Jun 17	20:44	28°♊54'54	0.64200 AU
morning rise	10048 Jun 21	11:20	25°♊22'38	
direct	10048 Jun 28	03:20	22°♊42'35	
desc. node	10048 Jun 28	03:53	22°♊42'35	
	10048 Jul 11	03:38	0°♋	
morning max el	10048 Jul 11	21:16	0°♋43'44	27°32'31
	10048 Aug 02	11:34	0°♌	
morning set	10048 Aug 15	23:46	24°♌20'37	
	10048 Aug 18	19:22	0°♍	
max. Earth dist.	10048 Aug 20	18:31	4°♍03'17	1.32936 AU
asc. node	10048 Aug 21	02:17	4°♍43'51	
superior conj	10048 Aug 24	01:08	10°♍59'16	0°29'04
minimum elong	10048 Aug 23	23:46	10°♍51'58	0°28'36
evening rise	10048 Aug 31	02:04	26°♍09'14	
	10048 Sep 01	21:52	0°♎	
	10048 Sep 20	02:48	0°♏	
evening max el	10048 Sep 22	02:43	2°♏04'52	22°41'51
desc. node	10048 Sep 24	02:04	3°♏52'18	
retrograde	10048 Oct 05	05:51	8°♏37'33	
evening set	10048 Oct 08	21:03	8°♏08'35	
min. Earth dist.	10048 Oct 16	10:37	4°♏44'37	0.55032 AU
inferior conj	10048 Oct 17	14:52	4°♏04'22	-5°34'55
minimum elong	10048 Oct 17	10:13	4°♏10'59	5°34'16
morning rise	10048 Oct 26	01:11	0°♏16'14	
	10048 Oct 27	12:17	30°℞♎	
direct	10048 Oct 29	05:10	29°♎53'12	
	10048 Oct 30	21:25	0°♏	
morning max el	10048 Nov 09	15:29	5°♏16'11	21°02'52
asc. node	10048 Nov 17	02:32	14°♏24'49	
	10048 Nov 25	21:59	0°♐	
morning set	10048 Nov 29	06:50	6°♐51'43	
superior conj	10048 Dec 06	15:01	22°♐11'12	1°32'53
minimum elong	10048 Dec 06	16:50	22°♐20'33	1°33'10
	10048 Dec 10	11:33	0°♑	
max. Earth dist.	10048 Dec 11	09:07	1°♑46'35	1.35528 AU
evening rise	10048 Dec 15	09:50	9°♑30'40	
desc. node	10048 Dec 21	00:29	19°♑37'42	
	10048 Dec 27	05:51	0°♒	
	10049 Jan 18	15:51	0°♓	
evening max el	10049 Jan 19	19:46	1°♓09'22	26°24'35
retrograde	10049 Feb 01	17:22	8°♓26'36	
evening set	10049 Feb 08	00:51	5°♓54'20	

min. Earth dist.	10049 Feb 12	04:10	1°♓37'52	0.66580 AU
asc. node	10049 Feb 13	01:32	0°♓33'23	
inferior conj	10049 Feb 13	22:15	29°♒30'18	0°16'59
minimum elong	10049 Feb 13	21:48	29°♒31'41	0°17'03
	10049 Feb 13	12:29	30°℞♒	
morning rise	10049 Feb 19	19:37	23°♒46'29	
direct	10049 Feb 22	20:35	22°♒54'27	
morning max el	10049 Mar 01	10:01	26°♒25'49	18°30'05
	10049 Mar 04	14:03	0°♓	
desc. node	10049 Mar 19	00:42	21°♓30'21	
morning set	10049 Mar 21	22:16	26°♓05'24	
	10049 Mar 24	09:38	0°♈	
superior conj	10049 Apr 06	21:48	21°♈12'21	-1°53'05
minimum elong	10049 Apr 06	12:52	20°♈37'27	1°52'32
max. Earth dist.	10049 Apr 06	23:44	21°♈19'56	1.45607 AU
	10049 Apr 12	12:39	0°♉	
evening rise	10049 Apr 22	15:26	15°♉56'19	
greatest brilliancy	10049 May 01	17:24	0°♊17'10	-0.8m
	10049 May 01	13:00	0°♊	
asc. node	10049 May 11	23:46	15°♊07'46	
evening max el	10049 May 14	15:29	18°♊06'51	18°52'11
retrograde	10049 May 21	08:36	21°♊49'30	
evening set	10049 May 24	17:04	20°♊44'44	
inferior conj	10049 May 30	06:23	15°♊02'43	3°16'24
minimum elong	10049 May 30	07:09	15°♊00'19	3°15'57
min. Earth dist.	10049 Jun 01	00:28	12°♊50'50	0.65947 AU
morning rise	10049 Jun 04	20:36	8°♊42'33	
direct	10049 Jun 11	06:11	5°♊57'40	
desc. node	10049 Jun 15	00:55	6°♊46'09	
morning max el	10049 Jun 24	07:56	13°♊44'06	26°38'10
	10049 Jul 07	12:02	0°♋	
	10049 Jul 26	04:25	0°♌	
morning set	10049 Jul 30	05:08	7°♌26'33	
max. Earth dist.	10049 Aug 03	07:35	15°♌23'47	1.34382 AU
asc. node	10049 Aug 07	23:10	24°♌50'09	
superior conj	10049 Aug 08	00:28	24°♌56'54	0°00'32
minimum elong	10049 Aug 08	00:27	24°♌56'49	0°00'15
behind sun begin	10049 Aug 07	18:39	24°♌26'49	
behind sun end	10049 Aug 08	06:14	25°♌26'52	
	10049 Aug 10	10:30	0°♍	
evening rise	10049 Aug 15	11:45	10°♍38'10	
	10049 Aug 25	13:45	0°♎	
evening max el	10049 Sep 03	21:03	12°♎28'06	21°08'01
desc. node	10049 Sep 10	23:18	17°♎24'39	
retrograde	10049 Sep 15	18:01	18°♎21'24	
evening set	10049 Sep 18	03:31	18°♎07'58	
inferior conj	10049 Sep 27	07:19	14°♎12'16	-4°34'33
minimum elong	10049 Sep 26	21:36	14°♎25'58	4°32'00
min. Earth dist.	10049 Sep 27	18:43	13°♎56'11	0.54627 AU
morning rise	10049 Oct 05	16:06	10°♎19'12	
direct	10049 Oct 09	13:32	9°♎46'34	
morning max el	10049 Oct 22	09:24	15°♎54'36	22°42'43
	10049 Nov 02	08:29	0°♏	
asc. node	10049 Nov 03	23:28	2°♏42'18	
morning set	10049 Nov 13	17:50	21°♏40'02	
	10049 Nov 17	15:14	0°♐	
superior conj	10049 Nov 20	18:03	6°♐41'34	1°39'24
minimum elong	10049 Nov 20	18:38	6°♐44'42	1°39'47
max. Earth dist.	10049 Nov 24	01:40	13°♐40'50	1.33850 AU
evening rise	10049 Nov 28	16:47	23°♐01'43	
	10049 Dec 02	08:23	0°♑	
desc. node	10049 Dec 07	21:31	9°♑53'57	
	10049 Dec 20	22:09	0°♒	
evening max el	10050 Jan 02	09:08	14°♒44'58	27°10'18

retrograde	10050 Jan	15	19:18	22°♒07'17	
evening set	10050 Jan	22	12:39	19°♒33'08	
min. Earth dist.	10050 Jan	26	10:42	15°♒50'02	0.65150 AU
inferior conj	10050 Jan	28	16:25	13°♒20'34	-0°45'06
minimum elong	10050 Jan	28	17:45	13°♒16'51	0°44'13
asc. node	10050 Jan	30	22:42	10°♒55'08	
morning rise	10050 Feb	04	00:19	7°♒49'09	
direct	10050 Feb	06	16:13	7°♒11'26	
morning max el	10050 Feb	13	01:47	10°♒33'25	18°00'06
	10050 Feb	26	15:12	0°♓	
morning set	10050 Mar	02	23:39	7°♓09'37	
desc. node	10050 Mar	05	21:28	11°♓56'27	
superior conj	10050 Mar	17	07:44	0°♈21'41	-1°17'50
minimum elong	10050 Mar	16	23:17	29°♓48'13	1°16'48
	10050 Mar	17	02:15	0°♈	
max. Earth dist.	10050 Mar	20	19:25	5°♈51'38	1.45412 AU
evening rise	10050 Apr	02	10:34	25°♈28'55	
	10050 Apr	05	09:03	0°♉	
greatest brilliancy	10050 Apr	16	05:52	16°♉28'18	-0.7m
	10050 Apr	26	05:59	0°♊	
evening max el	10050 Apr	27	21:56	1°♊47'36	19°41'05
asc. node	10050 Apr	28	20:55	2°♊43'12	
retrograde	10050 May	05	06:20	5°♊59'02	
evening set	10050 May	08	23:25	4°♊38'41	
	10050 May	13	08:39	30°℞♉	
inferior conj	10050 May	14	08:13	28°♉42'16	3°18'16
minimum elong	10050 May	14	07:49	28°♉43'37	3°17'53
min. Earth dist.	10050 May	15	11:26	27°♉11'41	0.67272 AU
morning rise	10050 May	19	15:51	22°♉22'47	
direct	10050 May	25	15:07	19°♉43'54	
desc. node	10050 Jun	01	21:53	22°♉42'32	
morning max el	10050 Jun	06	17:49	26°♉59'39	25°22'12
	10050 Jun	09	13:01	0°♊	
	10050 Jul	01	03:05	0°♋	
morning set	10050 Jul	12	19:09	19°♋47'02	
max. Earth dist.	10050 Jul	16	10:30	26°♋28'36	1.36284 AU
	10050 Jul	18	07:10	0°♌	
superior conj	10050 Jul	22	14:39	8°♌24'47	-0°31'09
minimum elong	10050 Jul	22	16:35	8°♌34'25	0°31'08
asc. node	10050 Jul	25	20:03	14°♌53'54	
evening rise	10050 Jul	30	17:29	24°♌52'26	
	10050 Aug	02	06:38	0°♍	
evening max el	10050 Aug	17	04:23	23°♍30'38	19°51'10
retrograde	10050 Aug	27	08:57	28°♍33'44	
desc. node	10050 Aug	28	20:32	28°♍27'46	
evening set	10050 Aug	29	06:04	28°♍24'12	
inferior conj	10050 Sep	07	04:32	24°♍23'06	-2°50'52
minimum elong	10050 Sep	06	20:54	24°♍34'46	2°48'12
min. Earth dist.	10050 Sep	09	04:49	23°♍09'22	0.55177 AU
morning rise	10050 Sep	15	10:06	20°♍05'24	
direct	10050 Sep	20	02:43	19°♍17'09	
morning max el	10050 Oct	03	21:04	26°♍05'25	24°29'49
	10050 Oct	07	14:28	0°♎	
asc. node	10050 Oct	21	20:21	21°♎35'58	
	10050 Oct	26	03:26	0°♏	
morning set	10050 Oct	29	05:38	6°♏27'47	
superior conj	10050 Nov	05	02:06	21°♏23'59	1°39'26
minimum elong	10050 Nov	05	01:32	21°♏20'50	1°39'44
max. Earth dist.	10050 Nov	07	02:26	25°♏46'42	1.32598 AU
	10050 Nov	09	01:43	0°♐	
evening rise	10050 Nov	12	10:33	7°♐00'26	
desc. node	10050 Nov	24	18:36	29°♐50'04	
	10050 Nov	24	21:00	0°♑	
evening max el	10050 Dec	15	21:02	27°♑57'45	27°30'13
	10050 Dec	18	03:43	0°♒	
retrograde	10050 Dec	29	14:19	5°♒17'22	
evening set	10051 Jan	05	14:11	2°♒48'35	
	10051 Jan	08	22:24	30°℞♑	
min. Earth dist.	10051 Jan	09	08:18	29°♑36'11	0.63399 AU
inferior conj	10051 Jan	12	01:00	26°♑54'11	-1°54'33
minimum elong	10051 Jan	12	04:42	26°♑44'53	1°52'40
asc. node	10051 Jan	17	19:49	22°♑07'08	
morning rise	10051 Jan	18	21:16	21°♑38'16	
direct	10051 Jan	21	06:10	21°♑11'08	
morning max el	10051 Jan	27	19:20	24°♑33'38	17°47'31
	10051 Feb	01	06:23	0°♒	
morning set	10051 Feb	13	03:32	19°♒30'59	
	10051 Feb	19	06:14	0°♓	
desc. node	10051 Feb	20	18:16	2°♓32'14	
superior conj	10051 Feb	25	12:53	10°♓28'41	-0°35'03
minimum elong	10051 Feb	25	09:10	10°♓13'26	0°34'19
max. Earth dist.	10051 Mar	03	14:06	20°♓16'02	1.44499 AU
	10051 Mar	09	18:34	0°♈	
evening rise	10051 Mar	12	21:56	4°♈51'09	
	10051 Mar	29	19:11	0°♉	
evening max el	10051 Apr	10	22:50	15°♉29'53	20°44'13
asc. node	10051 Apr	15	18:05	19°♉20'24	
retrograde	10051 Apr	19	05:00	20°♉19'09	
evening set	10051 Apr	23	07:37	18°♉43'05	
inferior conj	10051 Apr	28	14:32	12°♉33'55	3°07'58
minimum elong	10051 Apr	28	13:11	12°♉38'35	3°07'32
min. Earth dist.	10051 Apr	29	03:48	11°♉48'11	0.68142 AU
morning rise	10051 May	03	18:33	6°♉17'29	
direct	10051 May	09	05:06	3°♉52'58	
desc. node	10051 May	19	18:46	10°♉03'15	
morning max el	10051 May	20	03:15	10°♉24'29	23°54'38
	10051 Jun	04	16:07	0°♊	
	10051 Jun	23	20:35	0°♋	
morning set	10051 Jun	24	12:56	1°♋09'42	
max. Earth dist.	10051 Jun	28	07:48	7°♋45'32	1.38492 AU
superior conj	10051 Jul	05	16:14	21°♋14'32	-1°04'10
minimum elong	10051 Jul	05	20:28	21°♋34'33	1°03'52
	10051 Jul	10	05:28	0°♌	
asc. node	10051 Jul	12	16:59	4°♌51'26	
evening rise	10051 Jul	14	16:38	8°♌45'19	
	10051 Jul	26	15:42	0°♍	
evening max el	10051 Jul	31	00:39	5°♍19'03	18°55'13
retrograde	10051 Aug	08	14:57	9°♍35'52	
evening set	10051 Aug	10	12:54	9°♍23'57	
desc. node	10051 Aug	15	17:43	7°♍09'13	
inferior conj	10051 Aug	18	18:51	5°♍06'23	-0°56'37
minimum elong	10051 Aug	18	16:26	5°♍10'38	0°55'54
min. Earth dist.	10051 Aug	21	19:04	2°♍59'23	0.56578 AU
morning rise	10051 Aug	26	16:46	0°♍11'51	
	10051 Aug	27	04:22	30°℞♌	
direct	10051 Sep	01	04:33	29°♌00'10	
	10051 Sep	06	05:33	0°♍	
morning max el	10051 Sep	15	10:24	6°♍20'39	26°07'13
	10051 Oct	02	19:25	0°♎	
asc. node	10051 Oct	08	17:12	10°♎56'38	
morning set	10051 Oct	13	16:34	21°♎10'17	
	10051 Oct	17	17:53	0°♏	
superior conj	10051 Oct	20	13:00	6°♏11'55	1°33'30
minimum elong	10051 Oct	20	11:29	6°♏03'35	1°33'37
max. Earth dist.	10051 Oct	21	09:13	8°♏03'57	1.31810 AU
evening rise	10051 Oct	27	12:09	21°♏18'52	
	10051 Oct	31	18:50	0°♐	
desc. node	10051 Nov	11	15:44	19°♐17'29	

	10051 Nov 18 23:49	0°♑	
evening max el	10051 Nov 28 04:55	10°♑33'40	27°18'35
retrograde	10051 Dec 12 01:43	17°♑47'19	
evening set	10051 Dec 19 02:12	15°♑32'49	
min. Earth dist.	10051 Dec 22 19:23	12°♑44'50	0.61399 AU
inferior conj	10051 Dec 25 20:47	10°♑02'22	-3°08'32
minimum elong	10051 Dec 26 03:01	9°♑48'31	3°05'52
morning rise	10052 Jan 02 06:21	5°♑05'23	
direct	10052 Jan 04 10:51	4°♑45'15	
asc. node	10052 Jan 04 16:54	4°♑45'31	
morning max el	10052 Jan 11 11:25	8°♑17'40	17°53'02
	10052 Jan 25 14:11	0°♒	
morning set	10052 Jan 27 03:22	2°♒48'29	
superior conj	10052 Feb 06 19:13	21°♒47'48	0°06'17
minimum elong	10052 Feb 06 19:48	21°♒50'19	0°06'30
behind sun begin	10052 Feb 06 12:05	21°♒17'01	
behind sun end	10052 Feb 07 03:31	22°♒23'33	
desc. node	10052 Feb 07 15:07	23°♒13'23	
	10052 Feb 11 15:17	0°♓	
max. Earth dist.	10052 Feb 14 04:56	4°♓14'39	1.42969 AU
evening rise	10052 Feb 20 16:43	14°♓39'09	
	10052 Mar 01 17:59	0°♈	
evening max el	10052 Mar 23 18:18	29°♈12'35	21°58'07
	10052 Mar 24 13:33	0°♉	
asc. node	10052 Apr 01 15:16	4°♉43'18	
retrograde	10052 Apr 02 02:44	4°♉44'26	
evening set	10052 Apr 06 15:51	2°♉53'02	
	10052 Apr 09 09:40	30°℞♈	
inferior conj	10052 Apr 11 23:08	26°♈33'31	2°47'10
minimum elong	10052 Apr 11 21:09	26°♈40'24	2°46'36
min. Earth dist.	10052 Apr 11 23:29	26°♈32'16	0.68556 AU
morning rise	10052 Apr 17 02:18	20°♈21'34	
direct	10052 Apr 21 23:13	18°♈16'32	
morning max el	10052 May 01 14:26	23°♈56'45	22°25'07
desc. node	10052 May 05 15:40	28°♈24'52	
	10052 May 06 23:07	0°♉	
	10052 May 28 01:42	0°♊	
morning set	10052 Jun 04 05:26	11°♊21'58	
max. Earth dist.	10052 Jun 09 05:52	19°♊41'16	1.40759 AU
	10052 Jun 15 05:01	0°♋	
superior conj	10052 Jun 17 00:52	3°♋15'23	-1°35'28
minimum elong	10052 Jun 17 06:56	3°♋42'33	1°35'09
evening rise	10052 Jun 27 05:49	22°♋07'23	
asc. node	10052 Jun 28 13:58	24°♋38'11	
	10052 Jul 01 11:24	0°♌	
evening max el	10052 Jul 13 06:35	17°♌47'18	18°20'21
retrograde	10052 Jul 20 16:03	21°♌30'26	
evening set	10052 Jul 22 20:29	21°♌11'44	
inferior conj	10052 Jul 30 06:55	16°♌34'08	0°41'47
minimum elong	10052 Jul 30 08:20	16°♌31'12	0°40'57
desc. node	10052 Aug 01 14:53	14°♌37'47	
min. Earth dist.	10052 Aug 02 15:40	13°♌47'59	0.58561 AU
morning rise	10052 Aug 06 16:43	11°♌04'01	
direct	10052 Aug 12 20:49	9°♌22'44	
morning max el	10052 Aug 27 06:02	17°♌07'02	27°18'32
	10052 Sep 06 21:49	0°♍	
	10052 Sep 24 06:47	0°♎	
asc. node	10052 Sep 24 14:05	0°♎37'03	
morning set	10052 Sep 27 01:00	5°♎43'03	
superior conj	10052 Oct 04 00:49	20°♎59'42	1°22'03
minimum elong	10052 Oct 03 22:44	20°♎48'06	1°21'54
max. Earth dist.	10052 Oct 03 18:46	20°♎26'02	1.31493 AU
	10052 Oct 08 02:22	0°♏	
evening rise	10052 Oct 10 19:08	5°♏50'36	

	10052 Oct 23 09:38	0°♐	
desc. node	10052 Oct 28 12:54	8°♐04'58	
evening max el	10052 Nov 09 06:14	22°♐22'19	26°32'53
retrograde	10052 Nov 23 04:31	29°♐29'18	
evening set	10052 Nov 29 20:37	27°♐39'10	
min. Earth dist.	10052 Dec 03 19:56	25°♐03'42	0.59285 AU
inferior conj	10052 Dec 07 00:19	22°♐36'08	-4°20'37
minimum elong	10052 Dec 07 08:09	22°♐20'59	4°18'00
morning rise	10052 Dec 14 22:18	18°♐00'49	
direct	10052 Dec 17 02:03	17°♐44'18	
asc. node	10052 Dec 21 13:57	19°♐00'16	
morning max el	10052 Dec 24 22:32	21°♐36'05	18°18'00
	10052 Dec 31 09:12	0°♑	
morning set	10053 Jan 09 17:20	16°♑45'01	
	10053 Jan 16 17:49	0°♒	
superior conj	10053 Jan 19 00:44	4°♒12'30	0°41'04
minimum elong	10053 Jan 19 03:30	4°♒25'03	0°41'01
desc. node	10053 Jan 24 12:01	13°♒56'39	
max. Earth dist.	10053 Jan 26 14:40	17°♒34'27	1.40998 AU
evening rise	10053 Jan 31 05:48	25°♒18'23	
	10053 Feb 03 03:29	0°♓	
	10053 Feb 23 13:10	0°♈	
evening max el	10053 Mar 06 09:51	12°♈58'00	23°17'50
retrograde	10053 Mar 16 22:05	19°♈10'44	
asc. node	10053 Mar 19 12:27	18°♈38'08	
evening set	10053 Mar 21 22:36	17°♈05'03	
inferior conj	10053 Mar 27 08:06	10°♈38'24	2°16'50
minimum elong	10053 Mar 27 05:53	10°♈46'01	2°16'10
min. Earth dist.	10053 Mar 26 20:19	11°♈19'00	0.68535 AU
morning rise	10053 Apr 01 13:06	4°♈32'12	
direct	10053 Apr 05 20:31	2°♈48'51	
morning max el	10053 Apr 14 06:41	7°♈39'21	21°01'54
desc. node	10053 Apr 22 12:33	17°♈31'04	
	10053 May 01 09:03	0°♉	
morning set	10053 May 14 19:44	20°♉23'41	
	10053 May 20 20:45	0°♊	
max. Earth dist.	10053 May 22 09:35	2°♊29'21	1.42820 AU
superior conj	10053 May 29 12:03	14°♊18'00	-2°00'21
minimum elong	10053 May 29 17:47	14°♊42'23	2°00'22
	10053 Jun 07 12:16	0°♋	
evening rise	10053 Jun 10 04:49	4°♋48'23	
asc. node	10053 Jun 15 10:59	14°♋09'17	
	10053 Jun 26 00:28	0°♌	
evening max el	10053 Jun 26 18:14	0°♌45'47	18°05'24
retrograde	10053 Jul 03 10:05	4°♌10'11	
evening set	10053 Jul 05 22:23	3°♌41'08	
	10053 Jul 11 06:49	30°℞♋	
inferior conj	10053 Jul 12 15:18	28°♋43'36	1°54'31
minimum elong	10053 Jul 12 18:06	28°♋36'52	1°53'18
min. Earth dist.	10053 Jul 15 20:08	25°♋40'34	0.60814 AU
morning rise	10053 Jul 19 11:07	22°♋47'38	
desc. node	10053 Jul 19 12:03	22°♋46'06	
direct	10053 Jul 26 01:37	20°♋37'10	
morning max el	10053 Aug 09 08:27	28°♋35'43	27°53'42
	10053 Aug 10 17:23	0°♌	
	10053 Aug 31 18:34	0°♍	
morning set	10053 Sep 11 05:00	19°♍59'39	
asc. node	10053 Sep 11 10:56	20°♍30'25	
	10053 Sep 15 21:42	0°♎	
max. Earth dist.	10053 Sep 17 03:12	2°♎41'32	1.31661 AU
superior conj	10053 Sep 18 11:41	5°♎40'39	1°05'20
minimum elong	10053 Sep 18 09:28	5°♎28'18	1°04'58
evening rise	10053 Sep 25 05:18	20°♎28'28	
	10053 Sep 29 19:12	0°♏	

desc. node	10053 Oct 15 10:06	25°♏55'57	
	10053 Oct 18 18:41	0°♐	
evening max el	10053 Oct 21 23:29	3°♐19'37	25°16'17
retrograde	10053 Nov 04 20:36	10°♐18'44	
evening set	10053 Nov 10 16:34	9°♐01'12	
min. Earth dist.	10053 Nov 15 11:33	6°♐21'11	0.57279 AU
inferior conj	10053 Nov 18 08:25	4°♐25'30	-5°18'37
minimum elong	10053 Nov 18 14:46	4°♐14'48	5°17'14
morning rise	10053 Nov 26 15:16	0°♐12'27	
	10053 Nov 27 20:32	30°℞♏	
direct	10053 Nov 28 23:40	29°♏56'09	
	10053 Nov 30 02:29	0°♐	
morning max el	10053 Dec 08 00:42	4°♐16'50	19°04'12
asc. node	10053 Dec 08 10:59	4°♐42'08	
	10053 Dec 24 03:25	0°♑	
morning set	10053 Dec 24 16:54	1°♑06'34	
superior conj	10054 Jan 02 00:29	17°♑27'44	1°07'37
minimum elong	10054 Jan 02 03:37	17°♑42'46	1°07'37
	10054 Jan 08 18:15	0°♒	
max. Earth dist.	10054 Jan 08 20:50	0°♒11'35	1.38817 AU
desc. node	10054 Jan 11 08:57	4°♒37'39	
evening rise	10054 Jan 12 16:29	6°♒54'22	
	10054 Jan 27 03:01	0°♓	
evening max el	10054 Feb 16 23:35	26°♓46'51	24°37'16
	10054 Feb 20 13:55	0°♈	
retrograde	10054 Feb 28 13:40	3°♈32'50	
evening set	10054 Mar 06 02:20	1°♈14'30	
asc. node	10054 Mar 06 09:39	0°♈58'32	
	10054 Mar 07 09:48	30°℞♓	
min. Earth dist.	10054 Mar 10 16:02	26°♓03'22	0.68091 AU
inferior conj	10054 Mar 11 15:33	24°♓45'00	1°37'23
minimum elong	10054 Mar 11 13:34	24°♓51'34	1°36'46
morning rise	10054 Mar 17 00:57	18°♓45'59	
direct	10054 Mar 20 19:37	17°♓24'10	
morning max el	10054 Mar 28 06:21	21°♓33'55	19°50'48
	10054 Apr 04 07:08	0°♈	
desc. node	10054 Apr 09 09:24	7°♈09'45	
greatest brilliancy	10054 Apr 10 09:36	8°♈37'55	-0.6m
morning set	10054 Apr 23 18:44	28°♈48'52	
	10054 Apr 24 13:12	0°♉	
max. Earth dist.	10054 May 04 20:39	16°♉07'41	1.44425 AU
superior conj	10054 May 09 23:00	24°♉18'25	-2°12'33
minimum elong	10054 May 10 00:17	24°♉23'37	2°12'52
	10054 May 13 10:44	0°♊	
evening rise	10054 May 23 08:52	16°♊37'58	
	10054 May 31 06:48	0°♋	
asc. node	10054 Jun 02 08:02	3°♋19'10	
evening max el	10054 Jun 10 07:59	14°♋05'18	18°09'20
retrograde	10054 Jun 16 16:52	17°♋25'57	
evening set	10054 Jun 19 13:02	16°♋44'00	
inferior conj	10054 Jun 25 16:10	11°♋27'47	2°42'09
minimum elong	10054 Jun 25 18:41	11°♋20'56	2°41'12
min. Earth dist.	10054 Jun 28 09:32	8°♋31'11	0.63034 AU
morning rise	10054 Jul 01 22:40	5°♋16'30	
desc. node	10054 Jul 06 09:10	3°♋01'23	
direct	10054 Jul 08 16:10	2°♋44'14	
morning max el	10054 Jul 22 16:00	10°♋46'54	27°50'28
	10054 Aug 06 18:19	0°♌	
	10054 Aug 24 03:17	0°♍	
morning set	10054 Aug 26 02:25	3°♍54'16	
asc. node	10054 Aug 29 07:48	10°♍31'55	
max. Earth dist.	10054 Aug 31 06:48	14°♍40'33	1.32327 AU
superior conj	10054 Sep 02 19:46	20°♍09'09	0°43'39
minimum elong	10054 Sep 02 17:55	19°♍59'04	0°43'11
	10054 Sep 07 08:00	0°♎	
evening rise	10054 Sep 09 16:47	5°♎07'01	
	10054 Sep 22 19:39	0°♏	
desc. node	10054 Oct 02 07:18	12°♏28'40	
evening max el	10054 Oct 03 10:51	13°♏37'38	23°39'48
retrograde	10054 Oct 16 23:45	20°♏23'10	
evening set	10054 Oct 21 12:01	19°♏38'52	
min. Earth dist.	10054 Oct 27 21:04	16°♏35'59	0.55668 AU
inferior conj	10054 Oct 29 20:11	15°♏25'52	-5°43'33
minimum elong	10054 Oct 29 20:19	15°♏25'41	5°43'16
morning rise	10054 Nov 07 06:31	11°♏31'39	
direct	10054 Nov 10 02:09	11°♏11'56	
morning max el	10054 Nov 20 14:27	16°♏10'02	20°13'09
asc. node	10054 Nov 25 07:59	21°♏36'09	
	10054 Nov 30 18:15	0°♐	
morning set	10054 Dec 08 22:47	15°♐43'59	
	10054 Dec 15 21:49	0°♑	
superior conj	10054 Dec 16 13:47	1°♑20'31	1°25'52
minimum elong	10054 Dec 16 16:13	1°♑32'50	1°26'05
max. Earth dist.	10054 Dec 22 03:51	12°♑17'40	1.36670 AU
evening rise	10054 Dec 25 23:08	19°♑22'00	
desc. node	10054 Dec 29 05:54	25°♑12'38	
	10055 Jan 01 00:56	0°♒	
	10055 Jan 21 05:54	0°♓	
evening max el	10055 Jan 30 13:01	10°♓36'15	25°49'20
retrograde	10055 Feb 12 00:28	17°♓44'33	
evening set	10055 Feb 18 01:23	15°♓16'16	
asc. node	10055 Feb 21 06:51	11°♓57'29	
min. Earth dist.	10055 Feb 22 08:16	10°♓40'03	0.67247 AU
inferior conj	10055 Feb 23 19:32	8°♓48'49	0°48'56
minimum elong	10055 Feb 23 18:20	8°♓52'35	0°48'39
morning rise	10055 Mar 01 11:51	2°♓58'54	
direct	10055 Mar 04 18:57	1°♓56'44	
morning max el	10055 Mar 11 13:44	5°♓38'10	18°54'50
greatest brilliancy	10055 Mar 25 17:45	24°♓51'54	-0.8m
desc. node	10055 Mar 27 06:12	27°♓11'39	
	10055 Mar 29 01:51	0°♈	
morning set	10055 Apr 03 01:24	7°♈43'49	
	10055 Apr 17 08:03	0°♉	
max. Earth dist.	10055 Apr 17 13:39	0°♉21'55	1.45389 AU
superior conj	10055 Apr 19 12:43	3°♉26'47	-2°06'03
minimum elong	10055 Apr 19 06:41	3°♉03'03	2°06'00
evening rise	10055 May 04 13:51	27°♉28'31	
	10055 May 06 03:12	0°♊	
asc. node	10055 May 20 05:08	22°♊00'06	
evening max el	10055 May 24 20:40	27°♊37'20	18°31'27
	10055 May 27 18:31	0°♋	
retrograde	10055 May 31 08:13	1°♋08'12	
evening set	10055 Jun 03 12:09	0°♋11'52	
	10055 Jun 03 19:52	30°℞♊	
inferior conj	10055 Jun 09 05:27	24°♊38'36	3°08'51
minimum elong	10055 Jun 09 06:56	24°♊34'11	3°08'15
min. Earth dist.	10055 Jun 11 08:09	22°♊06'56	0.64995 AU
morning rise	10055 Jun 15 00:48	18°♊20'02	
direct	10055 Jun 21 14:41	15°♊36'47	
desc. node	10055 Jun 23 06:14	15°♊45'57	
morning max el	10055 Jul 05 02:20	23°♊32'34	27°12'41
	10055 Jul 10 20:22	0°♋	
	10055 Jul 31 02:44	0°♌	
morning set	10055 Aug 09 14:32	17°♌19'38	
max. Earth dist.	10055 Aug 14 02:05	26°♌15'43	1.33495 AU
	10055 Aug 15 21:34	0°♍	
asc. node	10055 Aug 16 04:41	0°♍37'04	
superior conj	10055 Aug 17 22:55	4°♍19'03	0°17'25

minimum elong	10055 Aug 17 22:03	4°♍14'27	0°17'02
evening rise	10055 Aug 25 03:40	19°♍40'32	
	10055 Aug 30 04:42	0°♎	
evening max el	10055 Sep 14 23:46	23°♎46'53	22°00'19
desc. node	10055 Sep 19 04:31	27°♎15'05	
	10055 Sep 26 04:58	0°♏	
retrograde	10055 Sep 27 15:31	0°♏04'50	
	10055 Sep 29 02:30	30°℞♎	
evening set	10055 Sep 30 16:42	29°♎44'05	
min. Earth dist.	10055 Oct 09 04:16	26°♎01'49	0.54746 AU
inferior conj	10055 Oct 09 16:19	25°♎44'57	-5°16'10
minimum elong	10055 Oct 09 08:42	25°♎55'36	5°14'43
morning rise	10055 Oct 18 02:10	21°♎57'42	
direct	10055 Oct 21 13:32	21°♎31'06	
morning max el	10055 Nov 02 14:45	27°♎12'41	21°43'42
	10055 Nov 05 07:26	0°♏	
asc. node	10055 Nov 12 04:56	9°♏26'50	
morning set	10055 Nov 23 08:31	0°♐30'11	
	10055 Nov 23 02:45	0°♐	
superior conj	10055 Nov 30 12:43	15°♐40'00	1°36'28
minimum elong	10055 Nov 30 14:01	15°♐46'49	1°36'50
max. Earth dist.	10055 Dec 04 16:12	24°♐11'35	1.34765 AU
	10055 Dec 07 14:36	0°♑	
evening rise	10055 Dec 08 22:16	2°♑32'30	
desc. node	10055 Dec 16 02:53	15°♑37'20	
	10055 Dec 24 23:34	0°♒	
evening max el	10056 Jan 13 02:27	24°♒19'37	26°46'41
	10056 Jan 20 11:05	0°♓	
retrograde	10056 Jan 26 05:45	1°♓39'39	
	10056 Jan 31 11:50	30°℞♒	
evening set	10056 Feb 01 17:56	29°♒05'39	
min. Earth dist.	10056 Feb 05 18:52	25°♒03'51	0.66022 AU
inferior conj	10056 Feb 07 17:59	22°♒45'57	-0°08'18
minimum elong	10056 Feb 07 18:12	22°♒45'18	0°07'55
transit middle	10056 Feb 07 18:12	22°♒45'18	0°07'55
transit begin	10056 Feb 07 15:38	22°♒52'49	
transit end	10056 Feb 07 20:45	22°♒37'48	
asc. node	10056 Feb 08 04:01	22°♒16'35	
morning rise	10056 Feb 13 19:35	17°♒07'16	
direct	10056 Feb 16 16:33	16°♒21'43	
morning max el	10056 Feb 23 03:17	19°♒47'23	18°15'17
	10056 Mar 02 00:55	0°♓	
morning set	10056 Mar 13 09:52	17°♓58'16	
desc. node	10056 Mar 13 02:59	17°♓30'39	
	10056 Mar 20 22:29	0°♈	
superior conj	10056 Mar 28 18:38	12°♈21'29	-1°39'43
minimum elong	10056 Mar 28 09:05	11°♈44'01	1°38'52
max. Earth dist.	10056 Mar 30 09:22	14°♈53'05	1.45621 AU
	10056 Apr 09 01:46	0°♉	
evening rise	10056 Apr 13 19:40	7°♉24'26	
greatest brilliancy	10056 Apr 25 01:16	24°♉50'02	-0.8m
	10056 Apr 28 12:07	0°♊	
asc. node	10056 May 06 02:15	10°♊02'48	
evening max el	10056 May 07 05:50	11°♊15'53	19°10'57
retrograde	10056 May 14 04:33	15°♊09'39	
evening set	10056 May 17 16:36	13°♊58'12	
inferior conj	10056 May 23 03:37	8°♊09'34	3°18'48
minimum elong	10056 May 23 03:52	8°♊08'45	3°18'24
min. Earth dist.	10056 May 24 15:11	6°♊14'46	0.66569 AU
morning rise	10056 May 28 14:40	1°♊49'11	
	10056 May 31 05:00	30°℞♉	
direct	10056 Jun 03 20:05	29°♉05'58	
	10056 Jun 07 18:21	0°♊	
desc. node	10056 Jun 09 03:15	0°♊41'00	
morning max el	10056 Jun 16 13:02	6°♊41'14	26°07'53
	10056 Jul 04 13:55	0°♋	
morning set	10056 Jul 22 13:54	0°♌07'08	
	10056 Jul 22 12:21	0°♌	
max. Earth dist.	10056 Jul 26 10:52	7°♌27'54	1.35146 AU
superior conj	10056 Jul 31 18:42	18°♌04'08	-0°12'39
minimum elong	10056 Jul 31 19:27	18°♌07'58	0°12'48
behind sun begin	10056 Jul 31 15:46	17°♌49'12	
behind sun end	10056 Jul 31 23:08	18°♌26'45	
asc. node	10056 Aug 02 01:33	20°♌42'12	
	10056 Aug 06 13:02	0°♍	
evening rise	10056 Aug 08 11:57	4°♍03'33	
	10056 Aug 23 03:33	0°♎	
evening max el	10056 Aug 26 23:04	4°♎23'22	20°32'47
desc. node	10056 Sep 05 01:44	9°♎45'17	
retrograde	10056 Sep 07 03:37	9°♎56'27	
evening set	10056 Sep 09 05:32	9°♎45'45	
inferior conj	10056 Sep 18 08:52	5°♎49'02	-3°54'03
minimum elong	10056 Sep 17 23:16	6°♎02'55	3°51'04
min. Earth dist.	10056 Sep 19 12:53	5°♎08'31	0.54737 AU
morning rise	10056 Sep 26 16:38	1°♎47'43	
direct	10056 Sep 30 21:47	1°♎09'35	
morning max el	10056 Oct 14 05:08	7°♎35'39	23°28'35
asc. node	10056 Oct 29 01:51	28°♎00'26	
	10056 Oct 30 04:16	0°♏	
morning set	10056 Nov 06 20:02	15°♏18'30	
superior conj	10056 Nov 13 18:10	0°♐16'06	1°40'11
minimum elong	10056 Nov 13 18:14	0°♐16'30	1°40'33
	10056 Nov 13 15:11	0°♐	
max. Earth dist.	10056 Nov 16 12:10	6°♐08'55	1.33249 AU
evening rise	10056 Nov 21 10:08	16°♐15'39	
	10056 Nov 28 16:30	0°♑	
desc. node	10056 Dec 01 23:55	5°♑45'33	
	10056 Dec 18 13:06	0°♒	
evening max el	10056 Dec 25 15:10	7°♒46'03	27°22'17
retrograde	10057 Jan 08 04:58	15°♒08'41	
evening set	10057 Jan 15 01:44	12°♒35'27	
min. Earth dist.	10057 Jan 18 21:42	9°♒06'12	0.64440 AU
inferior conj	10057 Jan 21 08:24	6°♒29'43	-1°13'45
minimum elong	10057 Jan 21 10:40	6°♒23'38	1°12'26
asc. node	10057 Jan 25 01:10	2°♒53'10	
morning rise	10057 Jan 27 21:24	1°♒04'51	
direct	10057 Jan 30 10:00	0°♒32'12	
morning max el	10057 Feb 05 20:16	3°♒53'12	17°52'39
morning set	10057 Feb 22 23:13	29°♒37'20	
	10057 Feb 23 04:37	0°♓	
desc. node	10057 Feb 27 23:46	8°♓01'13	
superior conj	10057 Mar 08 11:23	21°♓52'08	-1°00'02
minimum elong	10057 Mar 08 04:45	21°♓25'31	0°59'02
max. Earth dist.	10057 Mar 13 04:37	29°♓22'24	1.45108 AU
	10057 Mar 13 14:09	0°♈	
evening rise	10057 Mar 24 09:38	16°♈47'31	
	10057 Apr 02 02:06	0°♉	
greatest brilliancy	10057 Apr 08 09:27	9°♉21'05	-0.6m
evening max el	10057 Apr 20 09:53	24°♉56'56	20°06'18
asc. node	10057 Apr 22 23:24	27°♉15'05	
retrograde	10057 Apr 28 03:03	29°♉24'03	
evening set	10057 May 01 23:59	27°♉57'09	
inferior conj	10057 May 07 07:41	21°♉54'56	3°15'15
minimum elong	10057 May 07 06:50	21°♉57'47	3°14'52
min. Earth dist.	10057 May 08 04:52	20°♉43'06	0.67698 AU
morning rise	10057 May 12 13:24	15°♉36'13	
direct	10057 May 18 07:21	13°♉02'35	
desc. node	10057 May 27 00:12	17°♉16'15	
morning max el	10057 May 29 22:44	20°♉01'43	24°45'41

	10057 Jun	07	11:11	0°♊		
	10057 Jun	27	17:40	0°♋		
morning set	10057 Jul	04	20:02	12°♋05'10		
max. Earth dist.	10057 Jul	08	10:25	18°♋33'13	1.37194 AU	
	10057 Jul	14	12:11	0°♌		
superior conj	10057 Jul	15	04:01	1°♌16'56	-0°45'09	
minimum elong	10057 Jul	15	06:55	1°♌31'04	0°45'00	
asc. node	10057 Jul	19	22:28	10°♌43'42		
evening rise	10057 Jul	23	15:16	18°♌09'41		
	10057 Jul	29	17:41	0°♍		
evening max el	10057 Aug	09	12:15	15°♍46'07	19°24'48	
retrograde	10057 Aug	18	23:56	20°♍28'27		
evening set	10057 Aug	20	20:04	20°♍18'36		
desc. node	10057 Aug	22	22:57	19°♍44'31		
inferior conj	10057 Aug	29	12:25	16°♍11'45	-2°01'47	
minimum elong	10057 Aug	29	06:58	16°♍20'35	1°59'50	
min. Earth dist.	10057 Sep	01	00:57	14°♍33'56	0.55674 AU	
morning rise	10057 Sep	06	15:15	11°♍38'38		
direct	10057 Sep	11	16:05	10°♍41'14		
morning max el	10057 Sep	25	16:51	17°♍45'17	25°13'32	
	10057 Oct	05	19:36	0°♎		
asc. node	10057 Oct	15	22:44	17°♎06'32		
morning set	10057 Oct	22	07:40	0°♏04'25		
	10057 Oct	22	06:50	0°♏		
superior conj	10057 Oct	29	03:42	15°♏01'47	1°37'38	
minimum elong	10057 Oct	29	02:42	14°♏56'15	1°37'52	
max. Earth dist.	10057 Oct	30	15:37	18°♏18'52	1.32197 AU	
evening rise	10057 Nov	05	07:35	0°♐23'40		
	10057 Nov	05	03:00	0°♐		
desc. node	10057 Nov	18	21:01	25°♐30'21		
	10057 Nov	21	16:48	0°♑		
evening max el	10057 Dec	08	01:37	20°♑44'19	27°29'26	
retrograde	10057 Dec	21	21:10	28°♑02'25		
evening set	10057 Dec	28	21:58	25°♑38'30		
min. Earth dist.	10058 Jan	01	15:06	22°♑37'24	0.62566 AU	
inferior conj	10058 Jan	04	11:56	19°♑53'18	-2°25'42	
minimum elong	10058 Jan	04	16:44	19°♑41'50	2°23'24	
morning rise	10058 Jan	11	13:50	14°♑45'02		
asc. node	10058 Jan	11	22:16	14°♑38'22		
direct	10058 Jan	13	20:21	14°♑21'26		
morning max el	10058 Jan	20	13:36	17°♑47'25	17°47'34	
	10058 Jan	29	08:34	0°♒		
morning set	10058 Feb	05	12:22	12°♒24'35		
desc. node	10058 Feb	14	20:36	28°♒39'26		
	10058 Feb	15	15:37	0°♓		
superior conj	10058 Feb	17	03:06	2°♓29'23	-0°16'59	
minimum elong	10058 Feb	17	01:26	2°♓22'22	0°16'29	
max. Earth dist.	10058 Feb	23	21:22	13°♓35'35	1.43915 AU	
evening rise	10058 Mar	03	22:20	26°♓16'16		
	10058 Mar	06	08:31	0°♈		
	10058 Mar	27	01:29	0°♉		
evening max el	10058 Apr	03	08:25	8°♉39'25	21°14'38	
asc. node	10058 Apr	09	20:34	13°♉22'34		
retrograde	10058 Apr	12	01:31	13°♉46'37		
evening set	10058 Apr	16	08:23	12°♉04'11		
inferior conj	10058 Apr	21	15:14	5°♉50'26	3°00'21	
minimum elong	10058 Apr	21	13:35	5°♉56'12	2°59'52	
min. Earth dist.	10058 Apr	21	22:59	5°♉23'30	0.68376 AU	
	10058 Apr	26	08:01	30°℞♈		
morning rise	10058 Apr	26	18:33	29°♈35'35		
direct	10058 May	01	23:25	27°♈18'37		
	10058 May	08	10:30	0°♉		
morning max el	10058 May	12	08:22	3°♉28'53	23°16'06	
desc. node	10058 May	13	21:08	5°♉05'04		

	10058 Jun	01	14:32	0°♊		
morning set	10058 Jun	16	03:33	22°♊58'56		
	10058 Jun	20	06:23	0°♋		
max. Earth dist.	10058 Jun	20	06:48	0°♋01'51	1.39466 AU	
superior conj	10058 Jun	27	22:58	13°♋47'17	-1°17'53	
minimum elong	10058 Jun	28	04:06	14°♋11'02	1°17'34	
	10058 Jul	06	11:45	0°♌		
asc. node	10058 Jul	06	19:25	0°♌36'56		
evening rise	10058 Jul	07	10:38	1°♌50'17		
evening max el	10058 Jul	23	13:14	27°♌52'58	18°37'55	
	10058 Jul	26	01:41	0°♍		
retrograde	10058 Jul	31	13:41	1°♍53'08		
evening set	10058 Aug	02	14:11	1°♍38'45		
	10058 Aug	06	11:22	30°℞♌		
desc. node	10058 Aug	09	20:10	27°♌42'32		
inferior conj	10058 Aug	10	11:50	27°♌13'06	-0°12'01	
minimum elong	10058 Aug	10	11:21	27°♌14'00	0°12'05	
transit middle	10058 Aug	10	11:21	27°♌14'00	0°12'05	
transit begin	10058 Aug	10	08:57	27°♌18'33		
transit end	10058 Aug	10	13:45	27°♌09'27		
min. Earth dist.	10058 Aug	13	17:39	24°♌47'02	0.57373 AU	
morning rise	10058 Aug	18	05:03	22°♌02'51		
direct	10058 Aug	24	00:39	20°♌38'42		
morning max el	10058 Sep	07	08:19	28°♌10'16	26°41'26	
	10058 Sep	09	03:39	0°♍		
	10058 Sep	29	10:00	0°♎		
asc. node	10058 Oct	02	19:36	6°♎36'01		
morning set	10058 Oct	06	17:43	14°♎42'39		
superior conj	10058 Oct	13	15:12	29°♎49'52	1°29'19	
minimum elong	10058 Oct	13	13:24	29°♎39'51	1°29'18	
	10058 Oct	13	17:01	0°♏		
max. Earth dist.	10058 Oct	13	23:56	0°♏38'27	1.31619 AU	
evening rise	10058 Oct	20	11:45	14°♏48'16		
	10058 Oct	28	02:53	0°♐		
desc. node	10058 Nov	05	18:10	14°♐41'51		
	10058 Nov	17	07:47	0°♑		
evening max el	10058 Nov	20	07:13	3°♑01'23	27°03'24	
retrograde	10058 Dec	04	05:00	10°♑11'42		
evening set	10058 Dec	11	03:01	8°♑06'49		
min. Earth dist.	10058 Dec	14	21:50	5°♑25'35	0.60498 AU	
inferior conj	10058 Dec	18	01:14	2°♑47'44	-3°39'57	
minimum elong	10058 Dec	18	08:22	2°♑32'46	3°37'10	
	10058 Dec	21	15:09	30°℞♐		
morning rise	10058 Dec	25	16:16	27°♐59'19		
direct	10058 Dec	27	19:56	27°♐41'06		
asc. node	10058 Dec	29	19:21	27°♐57'06		
	10059 Jan	02	15:26	0°♑		
morning max el	10059 Jan	04	03:56	1°♑20'54	18°01'10	
morning set	10059 Jan	19	18:53	26°♑00'30		
	10059 Jan	21	22:38	0°♒		
superior conj	10059 Jan	29	19:46	14°♒17'15	0°22'00	
minimum elong	10059 Jan	29	21:32	14°♒25'02	0°22'02	
desc. node	10059 Feb	01	17:29	19°♒21'41		
max. Earth dist.	10059 Feb	06	10:13	27°♒19'20	1.42173 AU	
	10059 Feb	08	01:05	0°♓		
evening rise	10059 Feb	12	00:05	6°♓24'31		
	10059 Feb	27	13:56	0°♈		
evening max el	10059 Mar	17	02:11	22°♈24'05	22°31'42	
retrograde	10059 Mar	26	22:17	28°♈13'16		
asc. node	10059 Mar	27	17:45	28°♈10'02		
evening set	10059 Mar	31	16:12	26°♈15'42		
inferior conj	10059 Apr	06	00:14	19°♈53'00	2°35'27	
minimum elong	10059 Apr	05	22:07	20°♈00'23	2°34'50	
min. Earth dist.	10059 Apr	05	19:24	20°♈09'48	0.68604 AU	

morning rise	10059 Apr 11	03:53	13°♈43'27	
direct	10059 Apr 15	19:07	11°♈47'19	
morning max el	10059 Apr 24	21:14	17°♈05'07	21°48'34
desc. node	10059 Apr 30	18:01	23°♈47'35	
	10059 May 05	11:19	0°♉	
	10059 May 25	16:19	0°♊	
morning set	10059 May 27	08:35	2°♊40'04	
max. Earth dist.	10059 Jun 02	07:20	12°♊21'24	1.41688 AU
superior conj	10059 Jun 09	23:07	25°♊25'17	-1°47'08
minimum elong	10059 Jun 10	05:26	25°♊52'57	1°46'56
	10059 Jun 12	13:18	0°♋	
evening rise	10059 Jun 20	18:24	14°♋56'40	
asc. node	10059 Jun 23	16:25	20°♋17'50	
	10059 Jun 29	04:45	0°♌	
evening max el	10059 Jul 06	22:06	10°♌35'27	18°11'31
retrograde	10059 Jul 13	22:31	14°♌08'32	
evening set	10059 Jul 16	06:23	13°♌45'41	
inferior conj	10059 Jul 23	08:56	8°♌59'07	1°15'53
minimum elong	10059 Jul 23	11:12	8°♌54'06	1°14'46
min. Earth dist.	10059 Jul 26	17:08	6°♌03'12	0.59518 AU
desc. node	10059 Jul 27	17:20	5°♌14'00	
morning rise	10059 Jul 30	12:54	3°♌16'56	
direct	10059 Aug 05	22:20	1°♌22'58	
morning max el	10059 Aug 20	06:50	9°♌13'20	27°38'10
	10059 Sep 05	05:23	0°♍	
asc. node	10059 Sep 19	16:29	26°♍22'18	
morning set	10059 Sep 21	00:30	29°♍08'42	
	10059 Sep 21	10:15	0°♎	
max. Earth dist.	10059 Sep 27	09:37	12°♎59'20	1.31513 AU
superior conj	10059 Sep 28	02:49	14°♎34'50	1°15'34
minimum elong	10059 Sep 28	00:37	14°♎22'34	1°15'19
evening rise	10059 Oct 04	20:21	29°♎23'02	
	10059 Oct 05	03:16	0°♏	
	10059 Oct 21	11:49	0°♐	
desc. node	10059 Oct 23	15:21	3°♐07'03	
evening max el	10059 Nov 02	05:13	14°♐27'35	26°03'33
retrograde	10059 Nov 16	03:01	21°♐30'39	
evening set	10059 Nov 22	12:18	19°♐53'43	
min. Earth dist.	10059 Nov 26	18:02	17°♐18'45	0.58404 AU
inferior conj	10059 Nov 29	20:46	15°♐03'02	-4°47'57
minimum elong	10059 Nov 30	04:28	14°♐48'58	4°45'46
morning rise	10059 Dec 07	23:05	10°♐37'12	
direct	10059 Dec 10	04:16	10°♐21'03	
asc. node	10059 Dec 16	16:26	12°♐49'58	
morning max el	10059 Dec 18	11:36	14°♐23'43	18°35'02
	10059 Dec 29	04:35	0°♑	
morning set	10060 Jan 03	13:22	10°♑08'44	
superior conj	10060 Jan 12	09:36	27°♑04'41	0°53'22
minimum elong	10060 Jan 12	12:42	27°♑19'05	0°53'19
	10060 Jan 13	23:28	0°♒	
desc. node	10060 Jan 19	14:22	10°♒03'59	
max. Earth dist.	10060 Jan 19	18:35	10°♒22'18	1.40077 AU
evening rise	10060 Jan 23	22:14	17°♒27'11	
	10060 Jan 31	16:54	0°♓	
	10060 Feb 22	02:52	0°♈	
evening max el	10060 Feb 27	16:43	6°♈10'47	23°52'05
retrograde	10060 Mar 09	16:04	12°♈38'28	
asc. node	10060 Mar 13	14:58	11°♈24'36	
evening set	10060 Mar 14	21:51	10°♈26'54	
min. Earth dist.	10060 Mar 19	15:53	4°♈56'02	0.68397 AU
inferior conj	10060 Mar 20	08:45	3°♈58'36	2°01'13
minimum elong	10060 Mar 20	06:35	4°♈06'00	2°00'33
	10060 Mar 23	11:25	30°♓℞	
morning rise	10060 Mar 25	15:20	27°♓55'34	
direct	10060 Mar 29	17:14	26°♓21'35	
	10060 Apr 05	18:21	0°♈	
morning max el	10060 Apr 06	16:32	0°♈52'59	20°30'04
desc. node	10060 Apr 16	14:52	13°♈08'36	
	10060 Apr 28	04:12	0°♉	
morning set	10060 May 05	14:14	11°♉20'03	
max. Earth dist.	10060 May 14	14:47	25°♉34'21	1.43575 AU
	10060 May 17	08:22	0°♊	
superior conj	10060 May 21	00:06	6°♊01'14	-2°07'28
minimum elong	10060 May 21	04:31	6°♊19'37	2°07'39
evening rise	10060 Jun 02	09:58	27°♊17'26	
	10060 Jun 03	23:04	0°♋	
asc. node	10060 Jun 09	13:26	9°♋40'50	
evening max el	10060 Jun 19	11:00	23°♋43'42	18°04'40
retrograde	10060 Jun 25	22:43	27°♋05'01	
evening set	10060 Jun 28	14:20	26°♋30'45	
inferior conj	10060 Jul 05	00:52	21°♋24'46	2°17'34
minimum elong	10060 Jul 05	03:42	21°♋17'35	2°16'24
min. Earth dist.	10060 Jul 08	01:19	18°♋21'57	0.61780 AU
morning rise	10060 Jul 11	14:49	15°♋20'51	
desc. node	10060 Jul 13	14:28	14°♋09'29	
direct	10060 Jul 18	07:15	13°♋00'16	
morning max el	10060 Aug 01	12:00	21°♋01'48	27°56'57
	10060 Aug 09	06:27	0°♌	
	10060 Aug 28	06:39	0°♍	
morning set	10060 Sep 04	02:02	13°♍17'15	
asc. node	10060 Sep 05	13:21	16°♍19'57	
max. Earth dist.	10060 Sep 09	16:42	25°♍10'20	1.31886 AU
superior conj	10060 Sep 11	12:45	29°♍11'21	0°56'43
minimum elong	10060 Sep 11	10:37	28°♍59'35	0°56'18
	10060 Sep 11	21:36	0°♎	
evening rise	10060 Sep 18	07:20	14°♎02'09	
	10060 Sep 26	05:04	0°♏	
desc. node	10060 Oct 09	12:32	20°♏28'05	
evening max el	10060 Oct 13	19:12	25°♏05'08	24°36'37
	10060 Oct 20	07:20	0°♐	
retrograde	10060 Oct 27	13:53	2°♐00'11	
evening set	10060 Nov 01	21:45	0°♐56'58	
	10060 Nov 04	00:51	30°℞♏	
min. Earth dist.	10060 Nov 07	06:22	28°♏09'37	0.56524 AU
inferior conj	10060 Nov 09	20:04	26°♏31'42	-5°34'32
minimum elong	10060 Nov 10	00:21	26°♏24'53	5°33'47
morning rise	10060 Nov 18	05:09	22°♏27'58	
direct	10060 Nov 20	17:33	22°♏10'43	
morning max el	10060 Nov 30	08:56	26°♏45'55	19°30'50
asc. node	10060 Dec 02	13:27	29°♏04'54	
	10060 Dec 03	07:53	0°♐	
morning set	10060 Dec 17	15:58	24°♐38'17	
	10060 Dec 20	07:49	0°♑	
superior conj	10060 Dec 25	15:42	10°♑38'00	1°16'20
minimum elong	10060 Dec 25	18:37	10°♑52'22	1°16'25
max. Earth dist.	10061 Jan 01	00:27	22°♑44'13	1.37878 AU
evening rise	10061 Jan 04	17:45	29°♑26'06	
desc. node	10061 Jan 05	11:18	0°♒43'03	
	10061 Jan 05	01:28	0°♒	
	10061 Jan 24	00:52	0°♓	
evening max el	10061 Feb 09	05:56	19°♓59'29	25°09'13
retrograde	10061 Feb 21	05:49	26°♓57'00	
evening set	10061 Feb 26	23:48	24°♓33'43	
asc. node	10061 Feb 28	12:09	23°♓07'10	
min. Earth dist.	10061 Mar 03	10:20	19°♓37'36	0.67777 AU
inferior conj	10061 Mar 04	14:56	18°♓04'14	1°17'56
minimum elong	10061 Mar 04	13:14	18°♓09'49	1°17'25
morning rise	10061 Mar 10	03:00	12°♓09'01	

direct	10061 Mar 13 16:30	10°♓56'04	
morning max el	10061 Mar 20 19:39	14°♓52'25	19°25'05
	10061 Apr 01 11:37	0°♈	
greatest brilliancy	10061 Apr 02 13:30	1°♈35'25	-0.7m
desc. node	10061 Apr 03 11:41	2°♈57'51	
morning set	10061 Apr 14 13:24	19°♈49'04	
	10061 Apr 21 03:10	0°♉	
max. Earth dist.	10061 Apr 27 04:17	9°♉28'30	1.44916 AU
superior conj	10061 May 01 01:00	15°♉36'11	-2°12'19
minimum elong	10061 Apr 30 23:13	15°♉29'05	2°12'35
	10061 May 09 22:23	0°♊	
evening rise	10061 May 15 04:33	8°♊42'20	
asc. node	10061 May 27 10:29	28°♊39'30	
	10061 May 28 08:11	0°♋	
evening max el	10061 Jun 03 00:34	7°♋09'11	18°16'32
retrograde	10061 Jun 09 09:41	10°♋32'52	
evening set	10061 Jun 12 09:00	9°♋45'08	
inferior conj	10061 Jun 18 07:31	4°♋21'32	2°55'46
minimum elong	10061 Jun 18 09:38	4°♋15'30	2°54'57
min. Earth dist.	10061 Jun 20 18:53	1°♋33'22	0.63905 AU
	10061 Jun 22 06:21	30°℞♊	
morning rise	10061 Jun 24 08:55	28°♊06'01	
desc. node	10061 Jun 30 11:34	25°♊28'37	
direct	10061 Jul 01 01:31	25°♊27'30	
	10061 Jul 11 01:36	0°♋	
morning max el	10061 Jul 14 21:12	3°♋29'45	27°38'13
	10061 Aug 03 17:42	0°♌	
morning set	10061 Aug 18 19:53	27°♌00'57	
	10061 Aug 20 07:39	0°♍	
asc. node	10061 Aug 23 10:11	6°♍23'39	
max. Earth dist.	10061 Aug 23 17:04	6°♍59'42	1.32759 AU
superior conj	10061 Aug 26 19:01	13°♍32'58	0°33'03
minimum elong	10061 Aug 26 17:30	13°♍24'50	0°32'36
evening rise	10061 Sep 02 18:47	28°♍39'18	
	10061 Sep 03 09:58	0°♎	
	10061 Sep 20 13:55	0°♏	
evening max el	10061 Sep 25 05:57	5°♏14'51	22°56'50
desc. node	10061 Sep 26 09:45	6°♏19'44	
retrograde	10061 Oct 08 12:16	11°♏51'31	
evening set	10061 Oct 12 08:48	11°♏19'04	
min. Earth dist.	10061 Oct 19 14:45	8°♏01'00	0.55170 AU
inferior conj	10061 Oct 21 00:13	7°♏12'51	-5°39'08
minimum elong	10061 Oct 20 20:48	7°♏17'47	5°38'39
morning rise	10061 Oct 29 10:38	3°♏23'33	
direct	10061 Nov 01 12:16	3°♏01'32	
morning max el	10061 Nov 12 17:00	8°♏18'08	20°49'16
asc. node	10061 Nov 19 10:26	16°♏24'59	
	10061 Nov 27 08:20	0°♐	
morning set	10061 Dec 01 23:44	9°♐19'57	
superior conj	10061 Dec 09 09:31	24°♐43'27	1°31'15
minimum elong	10061 Dec 09 11:31	24°♐53'39	1°31'32
	10061 Dec 11 24:00	0°♑	
max. Earth dist.	10061 Dec 14 08:44	4°♑40'23	1.35817 AU
evening rise	10061 Dec 18 07:53	12°♑13'15	
desc. node	10061 Dec 23 08:15	21°♑14'11	
	10061 Dec 28 13:21	0°♒	
	10062 Jan 19 04:18	0°♓	
evening max el	10062 Jan 22 19:17	3°♓46'49	26°16'00
retrograde	10062 Feb 04 14:32	11°♓02'10	
evening set	10062 Feb 10 20:18	8°♓30'52	
min. Earth dist.	10062 Feb 15 00:32	4°♓09'12	0.66764 AU
asc. node	10062 Feb 15 09:21	3°♓42'28	
inferior conj	10062 Feb 16 16:50	2°♓05'41	0°25'43
minimum elong	10062 Feb 16 16:09	2°♓07'45	0°25'40
	10062 Feb 18 10:52	30°℞♒	
morning rise	10062 Feb 22 12:48	26°♒20'07	
direct	10062 Feb 25 15:18	25°♒25'33	
morning max el	10062 Mar 04 05:53	28°♒59'15	18°35'55
	10062 Mar 05 05:27	0°♓	
desc. node	10062 Mar 21 08:29	23°♓07'37	
morning set	10062 Mar 25 05:37	29°♓13'48	
	10062 Mar 25 17:22	0°♈	
superior conj	10062 Apr 10 09:13	24°♈33'01	-1°57'06
minimum elong	10062 Apr 10 00:50	24°♈00'15	1°56'41
max. Earth dist.	10062 Apr 09 22:10	23°♈49'45	1.45573 AU
	10062 Apr 13 20:43	0°♉	
evening rise	10062 Apr 25 23:14	19°♉07'41	
	10062 May 02 19:05	0°♊	
greatest brilliancy	10062 May 04 05:06	2°♊14'26	-0.8m
asc. node	10062 May 14 07:34	17°♊05'50	
evening max el	10062 May 17 12:03	20°♊45'08	18°46'18
retrograde	10062 May 24 03:25	24°♊24'14	
evening set	10062 May 27 10:43	23°♊21'38	
inferior conj	10062 Jun 02 00:58	17°♊41'59	3°14'52
minimum elong	10062 Jun 02 01:55	17°♊39'01	3°14'23
min. Earth dist.	10062 Jun 03 21:19	15°♊24'35	0.65713 AU
morning rise	10062 Jun 07 16:25	11°♊22'08	
direct	10062 Jun 14 03:19	8°♊37'14	
desc. node	10062 Jun 17 08:36	9°♊12'24	
morning max el	10062 Jun 27 07:45	16°♊26'28	26°47'52
	10062 Jul 08 12:59	0°♋	
	10062 Jul 27 14:08	0°♌	
morning set	10062 Aug 02 03:05	10°♌12'08	
max. Earth dist.	10062 Aug 06 07:44	18°♌23'39	1.34139 AU
asc. node	10062 Aug 10 07:03	26°♌29'44	
superior conj	10062 Aug 10 19:24	27°♌34'03	0°05'07
minimum elong	10062 Aug 10 19:09	27°♌32'41	0°04'48
behind sun begin	10062 Aug 10 13:38	27°♌03'59	
behind sun end	10062 Aug 11 00:39	28°♌01'26	
	10062 Aug 11 23:18	0°♍	
evening rise	10062 Aug 18 04:50	13°♍09'33	
	10062 Aug 26 18:52	0°♎	
evening max el	10062 Sep 06 22:40	15°♎33'22	21°21'03
desc. node	10062 Sep 13 06:57	20°♎12'19	
retrograde	10062 Sep 19 00:49	21°♎33'14	
evening set	10062 Sep 21 13:53	21°♎18'20	
inferior conj	10062 Sep 30 17:06	17°♎22'15	-4°47'05
minimum elong	10062 Sep 30 07:40	17°♎35'28	4°44'48
min. Earth dist.	10062 Sep 30 22:28	17°♎14'43	0.54631 AU
morning rise	10062 Oct 09 02:11	13°♎31'22	
direct	10062 Oct 12 21:05	13°♎00'22	
morning max el	10062 Oct 25 12:18	19°♎01'36	22°27'04
	10062 Nov 03 10:25	0°♏	
asc. node	10062 Nov 06 07:22	4°♏35'35	
morning set	10062 Nov 16 10:27	24°♏07'36	
	10062 Nov 19 04:37	0°♐	
superior conj	10062 Nov 23 11:34	9°♐10'53	1°38'51
minimum elong	10062 Nov 23 12:20	9°♐15'00	1°39'13
max. Earth dist.	10062 Nov 27 00:13	16°♐34'06	1.34076 AU
evening rise	10062 Dec 01 12:56	25°♐39'03	
	10062 Dec 03 19:23	0°♑	
desc. node	10062 Dec 10 05:15	11°♑32'37	
	10062 Dec 21 23:49	0°♒	
evening max el	10063 Jan 05 08:47	17°♒24'59	27°04'59
retrograde	10063 Jan 18 17:17	24°♒46'41	
evening set	10063 Jan 25 09:23	22°♒12'28	
min. Earth dist.	10063 Jan 29 08:12	18°♒24'33	0.65387 AU
inferior conj	10063 Jan 31 12:11	15°♒57'55	-0°35'09

minimum elong	10063 Jan 31 13:12	15°♒55'02	0°34'24
asc. node	10063 Feb 02 06:31	14°♒01'24	
morning rise	10063 Feb 06 18:22	10°♒24'27	
direct	10063 Feb 09 11:33	9°♒44'46	
morning max el	10063 Feb 15 21:09	13°♒07'19	18°03'29
	10063 Feb 27 22:10	0°♓	
morning set	10063 Mar 06 02:42	10°♓05'27	
desc. node	10063 Mar 08 05:17	13°♓32'01	
	10063 Mar 18 10:44	0°♈	
superior conj	10063 Mar 20 17:30	3°♈36'47	-1°23'55
minimum elong	10063 Mar 20 08:35	3°♈01'33	1°22'52
max. Earth dist.	10063 Mar 23 18:08	8°♈22'27	1.45490 AU
evening rise	10063 Apr 05 20:47	28°♈45'16	
	10063 Apr 06 16:09	0°♉	
greatest brilliancy	10063 Apr 19 01:20	18°♉54'11	-0.7m
	10063 Apr 26 23:10	0°♊	
evening max el	10063 Apr 30 19:16	4°♊25'22	19°32'49
asc. node	10063 May 01 04:43	4°♊48'48	
retrograde	10063 May 08 00:52	8°♊31'46	
evening set	10063 May 11 16:40	7°♊13'40	
inferior conj	10063 May 17 01:56	1°♊19'12	3°18'46
minimum elong	10063 May 17 01:42	1°♊19'59	3°18'24
	10063 May 18 01:52	30°℞♉	
min. Earth dist.	10063 May 18 07:16	29°♉42'18	0.67105 AU
morning rise	10063 May 22 10:23	24°♉59'30	
direct	10063 May 28 11:20	22°♉19'17	
desc. node	10063 Jun 04 05:36	24°♉53'32	
morning max el	10063 Jun 09 17:51	29°♉40'19	25°34'31
	10063 Jun 10 01:33	0°♊	
	10063 Jul 02 09:46	0°♋	
morning set	10063 Jul 15 19:40	22°♋39'50	
max. Earth dist.	10063 Jul 19 12:08	29°♋29'53	1.35980 AU
	10063 Jul 19 18:30	0°♌	
superior conj	10063 Jul 25 11:09	11°♌06'37	-0°26'12
minimum elong	10063 Jul 25 12:46	11°♌14'41	0°26'14
asc. node	10063 Jul 28 03:56	16°♌33'53	
evening rise	10063 Aug 02 11:19	27°♌26'21	
	10063 Aug 03 17:33	0°♍	
evening max el	10063 Aug 20 03:53	26°♍28'47	20°01'15
	10063 Aug 24 16:03	0°♎	
retrograde	10063 Aug 30 14:36	1°♎39'39	
desc. node	10063 Aug 31 04:10	1°♎38'47	
evening set	10063 Sep 01 12:32	1°♎29'59	
	10063 Sep 06 00:55	30°℞♍	
inferior conj	10063 Sep 10 12:40	27°♍30'17	-3°08'02
minimum elong	10063 Sep 10 04:23	27°♍42'45	3°05'11
min. Earth dist.	10063 Sep 12 08:00	26°♍25'12	0.55036 AU
morning rise	10063 Sep 18 18:56	23°♍17'26	
direct	10063 Sep 23 08:35	22°♍32'05	
morning max el	10063 Oct 07 00:24	29°♍14'33	24°14'11
	10063 Oct 07 19:14	0°♎	
asc. node	10063 Oct 24 04:15	23°♎24'28	
	10063 Oct 27 14:38	0°♏	
morning set	10063 Oct 31 22:16	8°♏56'00	
superior conj	10063 Nov 07 19:03	23°♏52'08	1°39'50
minimum elong	10063 Nov 07 18:38	23°♏49'54	1°40'09
max. Earth dist.	10063 Nov 09 23:55	28°♏38'24	1.32752 AU
	10063 Nov 10 15:08	0°♐	
evening rise	10063 Nov 15 05:17	9°♐34'15	
	10063 Nov 26 04:25	0°♑	
desc. node	10063 Nov 27 02:19	1°♑32'19	
	10063 Dec 18 03:35	0°♒	
evening max el	10063 Dec 18 21:00	0°♒42'07	27°29'07
retrograde	10064 Jan 01 13:23	8°♒02'31	
evening set	10064 Jan 08 12:40	5°♒32'17	
min. Earth dist.	10064 Jan 12 07:11	2°♒15'47	0.63678 AU
inferior conj	10064 Jan 14 22:25	29°♑34'50	-1°43'39
minimum elong	10064 Jan 15 01:44	29°♑26'23	1°41'53
	10064 Jan 14 12:36	30°℞♑	
asc. node	10064 Jan 20 03:40	25°♑03'07	
morning rise	10064 Jan 21 16:46	24°♑16'33	
direct	10064 Jan 24 02:35	23°♑48'05	
morning max el	10064 Jan 30 14:42	27°♑09'45	17°48'18
	10064 Feb 02 03:13	0°♒	
morning set	10064 Feb 16 03:05	22°♒16'59	
	10064 Feb 20 15:34	0°♓	
desc. node	10064 Feb 23 02:06	4°♓06'50	
superior conj	10064 Feb 28 19:15	13°♓34'10	-0°41'38
minimum elong	10064 Feb 28 14:46	13°♓15'52	0°40'49
max. Earth dist.	10064 Mar 05 13:14	22°♓49'30	1.44681 AU
	10064 Mar 10 02:34	0°♈	
evening rise	10064 Mar 15 08:24	8°♈06'52	
	10064 Mar 29 22:54	0°♉	
evening max el	10064 Apr 12 20:58	18°♉07'11	20°33'58
asc. node	10064 Apr 17 01:53	21°♉35'43	
retrograde	10064 Apr 20 23:35	22°♉50'34	
evening set	10064 Apr 25 00:43	21°♉16'47	
inferior conj	10064 Apr 30 07:46	15°♉09'16	3°10'12
minimum elong	10064 Apr 30 06:32	15°♉13'29	3°09'47
min. Earth dist.	10064 Apr 30 23:01	14°♉16'51	0.68044 AU
morning rise	10064 May 05 12:08	8°♉52'11	
direct	10064 May 11 00:35	6°♉25'14	
desc. node	10064 May 21 02:35	12°♉03'05	
morning max el	10064 May 22 03:22	13°♉04'10	24°07'58
	10064 Jun 04 19:14	0°♊	
	10064 Jun 24 05:45	0°♋	
morning set	10064 Jun 26 16:48	4°♋11'46	
max. Earth dist.	10064 Jun 30 09:52	10°♋42'48	1.38151 AU
superior conj	10064 Jul 07 14:51	24°♋02'13	-0°59'11
minimum elong	10064 Jul 07 18:44	24°♋20'46	0°58'56
	10064 Jul 10 17:00	0°♌	
asc. node	10064 Jul 14 00:51	6°♌32'19	
evening rise	10064 Jul 16 11:38	11°♌22'43	
	10064 Jul 26 15:31	0°♍	
evening max el	10064 Aug 01 22:23	8°♍10'23	19°02'14
retrograde	10064 Aug 10 18:03	12°♍33'41	
evening set	10064 Aug 12 15:15	12°♍22'28	
desc. node	10064 Aug 17 01:24	10°♍39'08	
inferior conj	10064 Aug 21 00:01	8°♍07'48	-1°13'23
minimum elong	10064 Aug 20 20:51	8°♍13'17	1°12'19
min. Earth dist.	10064 Aug 23 21:41	6°♍07'59	0.56318 AU
morning rise	10064 Aug 28 23:20	3°♍18'47	
direct	10064 Sep 03 08:15	2°♍11'06	
morning max el	10064 Sep 17 13:13	9°♍27'46	25°54'07
	10064 Oct 03 01:08	0°♎	
asc. node	10064 Oct 10 01:08	12°♎41'39	
morning set	10064 Oct 15 09:27	23°♎39'43	
	10064 Oct 18 07:36	0°♏	
superior conj	10064 Oct 22 05:39	8°♏39'48	1°34'47
minimum elong	10064 Oct 22 04:16	8°♏32'09	1°34'55
max. Earth dist.	10064 Oct 23 05:56	10°♏54'01	1.31891 AU
evening rise	10064 Oct 29 05:53	23°♏50'12	
	10064 Nov 01 06:18	0°♐	
desc. node	10064 Nov 12 23:26	21°♐04'42	
	10064 Nov 18 22:06	0°♑	
evening max el	10064 Nov 30 05:34	13°♑24'02	27°22'28
retrograde	10064 Dec 14 02:09	20°♑39'09	
evening set	10064 Dec 21 02:59	18°♑21'47	

min. Earth dist.	10064 Dec 24	19:54	15°♑30'49	0.61705 AU	
inferior conj	10064 Dec 27	20:20	12°♑47'19	-2°57'16	
minimum elong	10064 Dec 28	02:13	12°♑34'01	2°54'40	
morning rise	10065 Jan 04	03:56	7°♑47'28		
direct	10065 Jan 06	08:50	7°♑26'33		
asc. node	10065 Jan 06	00:47	7°♑27'03		
morning max el	10065 Jan 13	07:16	10°♑57'00	17°51'02	
	10065 Jan 25	23:26	0°♒		
morning set	10065 Jan 29	00:21	5°♒27'17		
superior conj	10065 Feb 08	21:53	24°♒42'52	0°00'20	
minimum elong	10065 Feb 08	21:57	24°♒43'09	0°00'36	
behind sun begin	10065 Feb 08	13:25	24°♒06'37		
behind sun end	10065 Feb 09	06:28	25°♒19'34		
desc. node	10065 Feb 08	22:57	24°♒47'26		
	10065 Feb 12	00:46	0°♓		
max. Earth dist.	10065 Feb 16	04:34	6°♓52'15	1.43231 AU	
evening rise	10065 Feb 23	01:13	17°♓49'06		
	10065 Mar 03	00:14	0°♈		
	10065 Mar 24	23:40	0°♉		
evening max el	10065 Mar 26	17:11	1°♉49'53	21°46'34	
asc. node	10065 Apr 03	23:05	7°♉11'08		
retrograde	10065 Apr 04	21:39	7°♉15'30		
evening set	10065 Apr 09	09:05	5°♉26'27		
	10065 Apr 14	01:18	30°℞♈		
inferior conj	10065 Apr 14	16:11	29°♈08'14	2°50'58	
minimum elong	10065 Apr 14	14:17	29°♈14'52	2°50'25	
min. Earth dist.	10065 Apr 14	18:26	29°♈00'23	0.68525 AU	
morning rise	10065 Apr 19	19:18	22°♈55'24		
direct	10065 Apr 24	18:15	20°♈47'13		
morning max el	10065 May 04	14:07	26°♈35'29	22°38'08	
desc. node	10065 May 07	23:30	0°♉16'55		
	10065 May 07	17:39	0°♉		
	10065 May 29	08:38	0°♊		
morning set	10065 Jun 07	13:22	14°♊35'27		
max. Earth dist.	10065 Jun 12	07:15	22°♊30'50	1.40427 AU	
	10065 Jun 16	15:06	0°♋		
superior conj	10065 Jun 20	02:20	6°♋11'17	-1°31'01	
minimum elong	10065 Jun 20	08:12	6°♋37'50	1°30'41	
evening rise	10065 Jun 30	02:35	24°♋50'12		
asc. node	10065 Jun 30	21:49	26°♋21'04		
	10065 Jul 02	20:25	0°♌		
evening max el	10065 Jul 16	03:11	20°♌33'45	18°24'18	
retrograde	10065 Jul 23	16:14	24°♌20'50		
evening set	10065 Jul 25	19:33	24°♌03'25		
inferior conj	10065 Aug 02	08:52	19°♌29'03	0°28'25	
minimum elong	10065 Aug 02	09:52	19°♌27'02	0°27'44	
desc. node	10065 Aug 03	22:36	18°♌12'12		
min. Earth dist.	10065 Aug 05	17:20	16°♌47'20	0.58239 AU	
morning rise	10065 Aug 09	20:39	14°♌03'46		
direct	10065 Aug 15	22:45	12°♌26'51		
morning max el	10065 Aug 30	07:47	20°♌08'28	27°10'02	
	10065 Sep 07	18:55	0°♍		
	10065 Sep 25	18:16	0°♎		
asc. node	10065 Sep 26	21:59	2°♎19'28		
morning set	10065 Sep 29	18:21	8°♎14'12		
superior conj	10065 Oct 06	17:27	23°♎28'04	1°24'08	
minimum elong	10065 Oct 06	15:26	23°♎16'48	1°24'02	
max. Earth dist.	10065 Oct 06	15:12	23°♎15'34	1.31508 AU	
	10065 Oct 09	16:04	0°♏		
evening rise	10065 Oct 13	12:12	8°♏20'22		
	10065 Oct 24	16:04	0°♐		
desc. node	10065 Oct 30	20:35	9°♐58'59		
evening max el	10065 Nov 12	08:01	25°♐20'07	26°41'50	
	10065 Nov 18	08:04	0°♑		
retrograde	10065 Nov 26	06:22	2°♑28'09		
evening set	10065 Dec 03	00:17	0°♑33'54		
	10065 Dec 03	23:31	30°℞♐		
min. Earth dist.	10065 Dec 06	22:05	27°♐57'20	0.59599 AU	
inferior conj	10065 Dec 10	02:29	25°♐26'32	-4°10'16	
minimum elong	10065 Dec 10	10:12	25°♐11'16	4°07'35	
morning rise	10065 Dec 17	22:45	20°♐47'44		
direct	10065 Dec 20	02:15	20°♐30'57		
asc. node	10065 Dec 23	21:52	21°♐26'59		
morning max el	10065 Dec 27	19:18	24°♐19'26	18°12'56	
	10066 Jan 01	10:38	0°♑		
morning set	10066 Jan 12	12:29	19°♑18'27		
	10066 Jan 18	04:59	0°♒		
superior conj	10066 Jan 22	00:09	6°♒58'00	0°36'18	
minimum elong	10066 Jan 22	02:42	7°♒09'34	0°36'16	
desc. node	10066 Jan 26	19:49	15°♒30'14		
max. Earth dist.	10066 Jan 29	14:48	20°♒17'14	1.41311 AU	
evening rise	10066 Feb 03	11:09	28°♒19'38		
	10066 Feb 04	11:58	0°♓		
	10066 Feb 24	14:43	0°♈		
evening max el	10066 Mar 09	09:14	15°♈35'03	23°05'52	
retrograde	10066 Mar 19	17:23	21°♈41'58		
asc. node	10066 Mar 21	20:18	21°♈20'08		
evening set	10066 Mar 24	16:09	19°♈38'26		
min. Earth dist.	10066 Mar 29	15:15	13°♈47'09	0.68566 AU	
inferior conj	10066 Mar 30	01:12	13°♈12'44	2°22'04	
minimum elong	10066 Mar 29	23:00	13°♈20'19	2°21'24	
morning rise	10066 Apr 04	05:46	7°♈05'30		
direct	10066 Apr 08	15:11	5°♈18'46		
morning max el	10066 Apr 17	05:19	10°♈16'10	21°13'35	
desc. node	10066 Apr 24	20:22	19°♈17'24		
	10066 May 02	13:35	0°♉		
morning set	10066 May 18	07:14	23°♉46'43		
	10066 May 22	05:10	0°♊		
max. Earth dist.	10066 May 25	09:55	5°♊11'04	1.42542 AU	
superior conj	10066 Jun 01	17:01	17°♊23'32	-1°57'15	
minimum elong	10066 Jun 01	23:02	17°♊49'17	1°57'12	
	10066 Jun 08	21:59	0°♋		
evening rise	10066 Jun 13	04:01	7°♋38'08		
asc. node	10066 Jun 17	18:49	15°♋54'56		
	10066 Jun 26	14:14	0°♌		
evening max el	10066 Jun 29	14:15	3°♌28'26	18°06'21	
retrograde	10066 Jul 06	07:54	6°♌54'28		
evening set	10066 Jul 08	19:05	6°♌27'05		
inferior conj	10066 Jul 15	14:22	1°♌32'24	1°45'12	
minimum elong	10066 Jul 15	17:06	1°♌26'00	1°43'57	
	10066 Jul 17	05:29	30°℞♋		
min. Earth dist.	10066 Jul 18	20:24	28°♋30'28	0.60480 AU	
desc. node	10066 Jul 21	19:47	26°♋07'16		
morning rise	10066 Jul 22	12:18	25°♋39'46		
direct	10066 Jul 29	01:49	23°♋33'20		
	10066 Aug 10	19:21	0°♌		
morning max el	10066 Aug 12	09:06	1°♌29'55	27°50'54	
	10066 Sep 02	02:03	0°♍		
morning set	10066 Sep 13	23:07	22°♍33'08		
asc. node	10066 Sep 13	18:50	22°♍10'56		
	10066 Sep 17	11:13	0°♎		
max. Earth dist.	10066 Sep 19	24:00	5°♎32'17	1.31607 AU	
superior conj	10066 Sep 21	04:33	8°♎10'06	1°08'11	
minimum elong	10066 Sep 21	02:19	7°♎57'41	1°07'52	
evening rise	10066 Sep 27	22:00	22°♎57'29		
	10066 Oct 01	06:31	0°♏		
desc. node	10066 Oct 17	17:46	27°♏59'28		
	10066 Oct 19	07:08	0°♐		

evening max el	10066 Oct 25 02:31	6°♐24'52	25°29'19
retrograde	10066 Nov 07 23:58	13°♐24'52	
evening set	10066 Nov 13 23:46	12°♐02'20	
min. Earth dist.	10066 Nov 18 14:49	9°♐24'10	0.57560 AU
inferior conj	10066 Nov 21 13:34	7°♐22'55	-5°11'30
minimum elong	10066 Nov 21 20:26	7°♐11'07	5°09'54
morning rise	10066 Nov 29 19:24	3°♐06'30	
direct	10066 Dec 02 02:48	2°♐50'20	
asc. node	10066 Dec 10 18:53	6°♐56'26	
morning max el	10066 Dec 10 22:58	7°♐06'10	18°55'54
	10066 Dec 25 14:26	0°♑	
morning set	10066 Dec 27 10:50	3°♑37'07	
superior conj	10067 Jan 04 21:27	20°♑06'30	1°04'07
minimum elong	10067 Jan 05 00:36	20°♑21'33	1°04'07
	10067 Jan 10 05:05	0°♒	
max. Earth dist.	10067 Jan 11 21:29	3°♒01'23	1.39145 AU
desc. node	10067 Jan 13 16:42	6°♒11'48	
evening rise	10067 Jan 15 18:36	9°♒47'21	
	10067 Jan 28 08:53	0°♓	
evening max el	10067 Feb 19 23:10	29°♓23'51	24°25'47
	10067 Feb 20 14:00	0°♈	
retrograde	10067 Mar 03 09:31	6°♈05'11	
evening set	10067 Mar 08 20:24	3°♈48'35	
asc. node	10067 Mar 08 17:29	3°♈54'42	
	10067 Mar 12 08:25	30°℞♓	
min. Earth dist.	10067 Mar 13 11:11	28°♓32'21	0.68183 AU
inferior conj	10067 Mar 14 08:58	27°♓19'20	1°43'59
minimum elong	10067 Mar 14 06:55	27°♓26'11	1°43'20
morning rise	10067 Mar 19 17:33	21°♓19'15	
direct	10067 Mar 23 14:07	19°♓54'14	
morning max el	10067 Mar 31 03:47	24°♓09'04	20°00'31
	10067 Apr 05 05:46	0°♈	
desc. node	10067 Apr 11 17:11	8°♈51'51	
	10067 Apr 25 20:25	0°♉	
morning set	10067 Apr 27 07:16	2°♉13'57	
max. Earth dist.	10067 May 07 20:16	18°♉44'16	1.44227 AU
superior conj	10067 May 13 07:35	27°♉33'22	-2°11'47
minimum elong	10067 May 13 09:50	27°♉42'33	2°12'05
	10067 May 14 19:27	0°♊	
evening rise	10067 May 26 11:11	19°♊36'24	
	10067 Jun 01 13:12	0°♋	
asc. node	10067 Jun 04 15:52	5°♋08'46	
evening max el	10067 Jun 13 03:52	16°♋45'34	18°07'28
retrograde	10067 Jun 19 13:07	20°♋05'50	
evening set	10067 Jun 22 08:08	19°♋25'53	
inferior conj	10067 Jun 28 13:03	14°♋12'10	2°36'22
minimum elong	10067 Jun 28 15:41	14°♋05'08	2°35'20
min. Earth dist.	10067 Jul 01 08:21	11°♋13'26	0.62721 AU
morning rise	10067 Jul 04 21:26	8°♋02'34	
desc. node	10067 Jul 08 16:54	6°♋00'37	
direct	10067 Jul 11 14:53	5°♋33'06	
morning max el	10067 Jul 25 16:05	13°♋35'26	27°53'15
	10067 Aug 07 20:25	0°♌	
	10067 Aug 25 14:32	0°♍	
morning set	10067 Aug 28 21:39	6°♍31'22	
asc. node	10067 Aug 31 15:41	12°♍11'24	
max. Earth dist.	10067 Sep 03 04:39	17°♍34'45	1.32200 AU
superior conj	10067 Sep 05 13:09	22°♍40'39	0°47'14
minimum elong	10067 Sep 05 11:12	22°♍30'02	0°46'47
	10067 Sep 08 21:24	0°♎	
evening rise	10067 Sep 12 09:24	7°♎36'18	
	10067 Sep 23 23:01	0°♏	
desc. node	10067 Oct 04 14:58	14°♏45'36	
evening max el	10067 Oct 06 14:20	16°♏46'52	23°54'43
retrograde	10067 Oct 20 04:59	23°♏35'07	
evening set	10067 Oct 24 22:37	22°♏46'07	
min. Earth dist.	10067 Oct 31 00:47	19°♏47'53	0.55868 AU
inferior conj	10067 Nov 02 04:11	18°♏30'20	-5°42'51
minimum elong	10067 Nov 02 05:30	18°♏28'20	5°42'30
morning rise	10067 Nov 10 14:21	14°♏34'03	
direct	10067 Nov 13 08:00	14°♏15'02	
morning max el	10067 Nov 23 14:41	19°♏06'53	20°01'32
asc. node	10067 Nov 27 15:53	23°♏40'40	
	10067 Dec 01 23:09	0°♐	
morning set	10067 Dec 11 15:57	18°♐12'58	
	10067 Dec 17 10:23	0°♑	
superior conj	10067 Dec 19 08:59	3°♑54'47	1°23'36
minimum elong	10067 Dec 19 11:35	4°♑07'44	1°23'47
max. Earth dist.	10067 Dec 25 04:14	15°♑11'59	1.36974 AU
evening rise	10067 Dec 28 22:27	22°♑07'55	
desc. node	10067 Dec 31 13:36	26°♑48'02	
	10068 Jan 02 10:04	0°♒	
	10068 Jan 22 05:15	0°♓	
evening max el	10068 Feb 02 12:30	13°♓13'24	25°39'21
retrograde	10068 Feb 14 21:01	20°♓19'07	
evening set	10068 Feb 20 20:13	17°♓51'56	
asc. node	10068 Feb 23 14:41	15°♓04'05	
min. Earth dist.	10068 Feb 25 04:00	13°♓10'42	0.67399 AU
inferior conj	10068 Feb 26 13:34	11°♓23'52	0°56'52
minimum elong	10068 Feb 26 12:13	11°♓28'10	0°56'31
morning rise	10068 Mar 03 04:42	5°♓32'36	
direct	10068 Mar 06 13:27	4°♓27'43	
morning max el	10068 Mar 13 10:07	8°♓12'28	19°02'11
greatest brilliancy	10068 Mar 26 21:48	26°♓17'56	-0.7m
desc. node	10068 Mar 28 13:58	28°♓50'39	
	10068 Mar 29 08:07	0°♈	
morning set	10068 Apr 05 11:16	11°♈00'21	
	10068 Apr 17 16:04	0°♉	
max. Earth dist.	10068 Apr 19 12:35	2°♉54'29	1.45291 AU
superior conj	10068 Apr 21 23:47	6°♉47'26	-2°08'22
minimum elong	10068 Apr 21 18:47	6°♉27'45	2°08'25
	10068 May 06 10:54	0°♊	
evening rise	10068 May 06 19:43	0°♊35'57	
asc. node	10068 May 21 12:57	23°♊54'50	
	10068 May 26 10:27	0°♋	
evening max el	10068 May 26 16:50	0°♋16'11	18°27'01
retrograde	10068 Jun 02 03:30	3°♋44'52	
evening set	10068 Jun 05 06:14	2°♋50'47	
	10068 Jun 08 16:14	30°℞♊	
inferior conj	10068 Jun 11 00:46	27°♊19'53	3°05'55
minimum elong	10068 Jun 11 02:25	27°♊14'59	3°05'16
min. Earth dist.	10068 Jun 13 05:41	24°♊43'34	0.64723 AU
morning rise	10068 Jun 16 21:36	21°♊01'50	
direct	10068 Jun 23 12:16	18°♊19'34	
desc. node	10068 Jun 24 13:58	18°♊23'26	
morning max el	10068 Jul 07 02:18	26°♊17'31	27°20'15
	10068 Jul 10 12:43	0°♋	
	10068 Jul 31 10:36	0°♌	
morning set	10068 Aug 11 11:23	20°♌02'18	
max. Earth dist.	10068 Aug 16 01:27	29°♌14'41	1.33289 AU
	10068 Aug 16 10:14	0°♍	
asc. node	10068 Aug 17 12:32	2°♍16'41	
superior conj	10068 Aug 19 17:12	6°♍54'17	0°21'41
minimum elong	10068 Aug 19 16:09	6°♍48'39	0°21'16
evening rise	10068 Aug 26 20:32	22°♍11'31	
	10068 Aug 30 14:55	0°♎	
evening max el	10068 Sep 17 02:22	26°♎55'26	22°14'39
desc. node	10068 Sep 20 12:11	29°♎50'43	

	10068 Sep 20 17:18	0°♏	
retrograde	10068 Sep 29 22:25	3°♏19'05	
evening set	10068 Oct 03 04:21	2°♏55'42	
	10068 Oct 10 03:31	30°℞♎	
min. Earth dist.	10068 Oct 11 08:12	29°♎20'09	0.54826 AU
inferior conj	10068 Oct 12 02:06	28°♎54'58	-5°24'05
minimum elong	10068 Oct 11 19:26	29°♎04'21	5°22'58
morning rise	10068 Oct 20 12:09	25°♎07'53	
direct	10068 Oct 23 20:50	24°♎42'41	
	10068 Nov 04 09:23	0°♏	
morning max el	10068 Nov 04 17:00	0°♏17'38	21°29'04
asc. node	10068 Nov 13 12:49	11°♏24'04	
	10068 Nov 23 14:48	0°♐	
morning set	10068 Nov 25 01:16	2°♐58'36	
superior conj	10068 Dec 02 06:45	18°♐11'25	1°35'20
minimum elong	10068 Dec 02 08:14	18°♐19'10	1°35'39
max. Earth dist.	10068 Dec 06 15:23	27°♐05'55	1.35024 AU
	10068 Dec 08 02:33	0°♑	
evening rise	10068 Dec 10 19:25	5°♑12'59	
desc. node	10068 Dec 17 10:35	17°♑14'47	
	10068 Dec 25 05:06	0°♒	
evening max el	10069 Jan 15 01:51	26°♒57'57	26°39'19
	10069 Jan 18 12:09	0°♓	
retrograde	10069 Jan 28 03:16	4°♓17'19	
evening set	10069 Feb 03 13:52	1°♓43'43	
	10069 Feb 05 11:22	30°℞♒	
min. Earth dist.	10069 Feb 07 15:34	27°♒36'53	0.66228 AU
asc. node	10069 Feb 09 11:51	25°♒25'39	
inferior conj	10069 Feb 09 12:58	25°♒22'19	0°00'55
minimum elong	10069 Feb 09 12:56	25°♒22'25	0°01'11
transit middle	10069 Feb 09 12:56	25°♒22'25	0°01'11
transit begin	10069 Feb 09 10:01	25°♒31'06	
transit end	10069 Feb 09 15:51	25°♒13'46	
morning rise	10069 Feb 15 13:04	19°♒41'53	
direct	10069 Feb 18 11:23	18°♒54'09	
morning max el	10069 Feb 24 22:54	22°♒21'32	18°20'04
	10069 Mar 03 03:03	0°♓	
desc. node	10069 Mar 15 10:46	19°♓07'25	
morning set	10069 Mar 16 15:16	21°♓01'16	
	10069 Mar 22 06:35	0°♈	
superior conj	10069 Apr 01 05:38	15°♈40'52	-1°44'47
minimum elong	10069 Mar 31 20:09	15°♈03'44	1°44'01
max. Earth dist.	10069 Apr 02 07:43	17°♈22'50	1.45633 AU
	10069 Apr 10 09:32	0°♉	
evening rise	10069 Apr 17 04:38	10°♉38'35	
greatest brilliancy	10069 Apr 27 16:58	27°♉03'08	-0.8m
	10069 Apr 29 15:25	0°♊	
asc. node	10069 May 08 10:04	12°♊04'04	
evening max el	10069 May 10 02:37	13°♊53'54	19°04'06
retrograde	10069 May 16 23:17	17°♊43'42	
evening set	10069 May 20 10:03	16°♊34'36	
inferior conj	10069 May 25 21:48	10°♊48'14	3°18'10
minimum elong	10069 May 25 22:14	10°♊46'50	3°17'46
min. Earth dist.	10069 May 27 11:38	8°♊47'14	0.66357 AU
morning rise	10069 May 31 09:53	4°♊27'46	
direct	10069 Jun 06 16:47	1°♊43'45	
desc. node	10069 Jun 11 11:01	3°♊00'34	
morning max el	10069 Jun 19 13:02	9°♊23'30	26°18'53
	10069 Jul 05 17:53	0°♋	
	10069 Jul 23 22:46	0°♌	
morning set	10069 Jul 25 12:54	2°♌56'30	
max. Earth dist.	10069 Jul 29 11:43	10°♌29'33	1.34867 AU
superior conj	10069 Aug 03 14:16	20°♌43'51	-0°07'52
minimum elong	10069 Aug 03 14:44	20°♌46'13	0°08'05
behind sun begin	10069 Aug 03 09:33	20°♌19'40	
behind sun end	10069 Aug 03 19:55	21°♌12'49	
asc. node	10069 Aug 04 09:24	22°♌22'17	
	10069 Aug 08 01:21	0°♍	
evening rise	10069 Aug 11 05:21	6°♍36'42	
	10069 Aug 23 22:58	0°♎	
evening max el	10069 Aug 29 23:49	7°♎26'50	20°44'45
desc. node	10069 Sep 07 09:25	12°♎43'44	
retrograde	10069 Sep 10 10:22	13°♎07'17	
evening set	10069 Sep 12 14:31	12°♎55'51	
inferior conj	10069 Sep 21 18:20	8°♎59'47	-4°09'15
minimum elong	10069 Sep 21 08:32	9°♎13'49	4°06'23
min. Earth dist.	10069 Sep 22 16:39	8°♎27'49	0.54678 AU
morning rise	10069 Sep 30 02:27	5°♎01'42	
direct	10069 Oct 04 04:51	4°♎25'38	
morning max el	10069 Oct 17 08:32	10°♎45'42	23°12'28
asc. node	10069 Oct 31 09:44	29°♎52'06	
	10069 Oct 31 11:32	0°♏	
morning set	10069 Nov 09 12:39	17°♏47'01	
	10069 Nov 15 04:40	0°♐	
superior conj	10069 Nov 16 11:26	2°♐45'48	1°40'02
minimum elong	10069 Nov 16 11:41	2°♐47'11	1°40'24
max. Earth dist.	10069 Nov 19 10:06	9°♐01'39	1.33450 AU
evening rise	10069 Nov 24 05:40	18°♐52'12	
	10069 Nov 30 02:13	0°♑	
desc. node	10069 Dec 04 07:38	7°♑25'59	
	10069 Dec 19 09:12	0°♒	
evening max el	10069 Dec 28 14:50	10°♒27'56	27°18'37
retrograde	10070 Jan 11 03:32	17°♒50'48	
evening set	10070 Jan 17 23:09	15°♒17'06	
min. Earth dist.	10070 Jan 21 19:48	11°♒43'02	0.64694 AU
inferior conj	10070 Jan 24 04:47	9°♒08'44	-1°03'22
minimum elong	10070 Jan 24 06:43	9°♒03'30	1°02'12
asc. node	10070 Jan 27 09:01	5°♒55'57	
morning rise	10070 Jan 30 15:58	3°♒41'31	
direct	10070 Feb 02 05:39	3°♒07'14	
morning max el	10070 Feb 08 15:34	6°♒28'27	17°54'54
	10070 Feb 24 12:55	0°♓	
morning set	10070 Feb 26 00:38	2°♓28'59	
desc. node	10070 Mar 02 07:35	9°♓36'46	
superior conj	10070 Mar 11 19:51	25°♓04'05	-1°06'28
minimum elong	10070 Mar 11 12:30	24°♓34'47	1°05'28
	10070 Mar 14 22:22	0°♈	
max. Earth dist.	10070 Mar 16 03:09	1°♈53'32	1.45228 AU
evening rise	10070 Mar 27 20:12	20°♈04'49	
	10070 Apr 03 08:04	0°♉	
greatest brilliancy	10070 Apr 11 13:36	12°♉18'17	-0.6m
evening max el	10070 Apr 23 07:35	27°♉35'24	19°57'12
asc. node	10070 Apr 25 07:13	29°♉25'21	
	10070 Apr 26 00:51	0°♊	
retrograde	10070 Apr 30 21:35	1°♊56'51	
evening set	10070 May 04 17:08	0°♊32'18	
	10070 May 05 09:14	30°℞♉	
inferior conj	10070 May 10 01:10	24°♉32'08	3°16'32
minimum elong	10070 May 10 00:29	24°♉34'27	3°16'10
min. Earth dist.	10070 May 11 00:28	23°♉13'35	0.67559 AU
morning rise	10070 May 15 07:30	18°♉13'03	
direct	10070 May 21 03:22	15°♉37'21	
desc. node	10070 May 29 08:01	19°♉22'54	
morning max el	10070 Jun 01 22:49	22°♉42'43	24°58'37
	10070 Jun 08 08:33	0°♊	
	10070 Jun 29 01:26	0°♋	
morning set	10070 Jul 07 21:56	15°♋02'52	
max. Earth dist.	10070 Jul 11 12:15	21°♋33'42	1.36869 AU
	10070 Jul 15 23:35	0°♌	

superior conj	10070 Jul	18	01:24	4°♌02'18	-0°40'08
minimum elong	10070 Jul	18	03:57	4°♌14'50	0°40'02
asc. node	10070 Jul	22	06:20	12°♌24'47	
evening rise	10070 Jul	26	09:34	20°♌45'54	
	10070 Jul	31	02:03	0°♍	
evening max el	10070 Aug	12	11:03	18°♍42'42	19°33'37
retrograde	10070 Aug	22	04:31	23°♍32'02	
evening set	10070 Aug	24	00:45	23°♍22'25	
desc. node	10070 Aug	25	06:40	23°♍05'34	
inferior conj	10070 Sep	01	19:27	19°♍17'50	-2°19'21
minimum elong	10070 Sep	01	13:11	19°♍27'46	2°17'06
min. Earth dist.	10070 Sep	04	04:02	17°♍48'18	0.55485 AU
morning rise	10070 Sep	09	23:19	14°♍50'18	
direct	10070 Sep	14	21:23	13°♍56'09	
morning max el	10070 Sep	28	20:02	20°♍54'54	24°58'31
	10070 Oct	06	16:30	0°♎	
asc. node	10070 Oct	18	06:39	18°♎54'00	
	10070 Oct	23	19:25	0°♏	
morning set	10070 Oct	25	00:22	2°♏33'35	
superior conj	10070 Oct	31	20:30	17°♏30'25	1°38'23
minimum elong	10070 Oct	31	19:38	17°♏25'43	1°38'39
max. Earth dist.	10070 Nov	02	12:38	21°♏10'02	1.32328 AU
	10070 Nov	06	15:43	0°♐	
evening rise	10070 Nov	08	01:52	2°♐57'06	
desc. node	10070 Nov	21	04:43	27°♐14'51	
	10070 Nov	22	21:29	0°♑	
evening max el	10070 Dec	11	01:54	23°♑31'43	27°30'24
	10070 Dec	20	12:35	0°♒	
retrograde	10070 Dec	24	20:47	0°♒50'23	
	10070 Dec	29	00:10	30°℞♑	
evening set	10070 Dec	31	21:19	28°♑24'43	
min. Earth dist.	10071 Jan	04	14:47	25°♑19'42	0.62859 AU
inferior conj	10071 Jan	07	10:11	22°♑36'08	-2°14'30
minimum elong	10071 Jan	07	14:35	22°♑25'25	2°12'21
morning rise	10071 Jan	14	10:05	17°♑25'03	
asc. node	10071 Jan	14	06:10	17°♑28'38	
direct	10071 Jan	16	17:22	17°♑00'18	
morning max el	10071 Jan	23	09:03	20°♑24'57	17°47'11
	10071 Jan	30	13:39	0°♒	
morning set	10071 Feb	08	10:43	15°♒07'49	
desc. node	10071 Feb	17	04:24	0°♓14'10	
	10071 Feb	17	01:04	0°♓	
superior conj	10071 Feb	20	07:49	5°♓30'42	-0°23'21
minimum elong	10071 Feb	20	05:27	5°♓20'50	0°22'47
max. Earth dist.	10071 Feb	26	20:39	16°♓11'05	1.44132 AU
evening rise	10071 Mar	07	08:10	29°♓30'49	
	10071 Mar	07	15:45	0°♈	
	10071 Mar	28	01:27	0°♉	
evening max el	10071 Apr	06	06:58	11°♉18'06	21°03'46
asc. node	10071 Apr	12	04:24	15°♉44'02	
retrograde	10071 Apr	14	20:07	16°♉18'49	
evening set	10071 Apr	19	01:30	14°♉38'36	
inferior conj	10071 Apr	24	08:21	8°♉26'29	3°03'17
minimum elong	10071 Apr	24	06:47	8°♉31'52	3°02'48
min. Earth dist.	10071 Apr	24	18:01	7°♉52'56	0.68307 AU
morning rise	10071 Apr	29	11:51	2°♉11'05	
	10071 May	03	10:13	30°℞♈	
direct	10071 May	04	18:45	29°♈51'20	
	10071 May	06	04:24	0°♉	
morning max el	10071 May	15	08:17	6°♉08'58	23°29'33
desc. node	10071 May	16	04:57	7°♉02'16	
	10071 Jun	02	19:23	0°♊	
morning set	10071 Jun	19	09:07	26°♊06'52	
	10071 Jun	21	15:50	0°♋	
max. Earth dist.	10071 Jun	23	08:46	2°♋57'31	1.39128 AU
superior conj	10071 Jun	30	22:45	16°♋39'36	-1°13'03
minimum elong	10071 Jul	01	03:35	17°♋02'08	1°12'44
	10071 Jul	07	22:29	0°♌	
asc. node	10071 Jul	09	03:15	2°♌19'35	
evening rise	10071 Jul	10	06:19	4°♌30'51	
	10071 Jul	25	17:41	0°♍	
evening max el	10071 Jul	26	10:26	0°♍43'05	18°43'33
retrograde	10071 Aug	03	15:27	4°♍48'46	
evening set	10071 Aug	05	15:02	4°♍35'18	
desc. node	10071 Aug	12	03:54	1°♍17'11	
inferior conj	10071 Aug	13	15:36	0°♍12'28	-0°27'30
minimum elong	10071 Aug	13	14:28	0°♍14'32	0°27'18
	10071 Aug	13	22:20	30°℞♌	
min. Earth dist.	10071 Aug	16	19:46	27°♌52'47	0.57084 AU
morning rise	10071 Aug	21	10:32	25°♌07'45	
direct	10071 Aug	27	03:31	23°♌48'03	
	10071 Sep	09	02:02	0°♍	
morning max el	10071 Sep	10	10:37	1°♍15'43	26°30'09
	10071 Sep	30	18:40	0°♎	
asc. node	10071 Oct	05	03:31	8°♎20'33	
morning set	10071 Oct	09	10:47	17°♎13'34	
	10071 Oct	15	06:52	0°♏	
superior conj	10071 Oct	16	07:49	2°♏18'40	1°30'55
minimum elong	10071 Oct	16	06:07	2°♏09'13	1°30'58
max. Earth dist.	10071 Oct	16	20:33	3°♏29'25	1.31673 AU
evening rise	10071 Oct	23	05:11	17°♏19'53	
	10071 Oct	29	12:34	0°♐	
desc. node	10071 Nov	08	01:51	16°♐32'30	
	10071 Nov	17	19:38	0°♑	
evening max el	10071 Nov	23	08:27	5°♑56'14	27°09'30
retrograde	10071 Dec	07	05:51	13°♑07'32	
evening set	10071 Dec	14	04:57	10°♑59'07	
min. Earth dist.	10071 Dec	17	23:03	8°♑15'49	0.60814 AU
inferior conj	10071 Dec	21	01:53	5°♑36'04	-3°28'49
minimum elong	10071 Dec	21	08:43	5°♑21'25	3°26'03
morning rise	10071 Dec	28	15:01	0°♑44'33	
direct	10071 Dec	30	18:55	0°♑25'42	
asc. node	10072 Jan	01	03:17	0°♑33'17	
morning max el	10072 Jan	07	00:05	4°♑02'41	17°57'54
morning set	10072 Jan	22	15:00	28°♑37'59	
	10072 Jan	23	08:51	0°♒	
superior conj	10072 Feb	01	20:57	17°♒09'00	0°16'30
minimum elong	10072 Feb	01	22:20	17°♒15'05	0°16'37
desc. node	10072 Feb	04	01:14	20°♒56'08	
	10072 Feb	09	10:05	0°♓	
max. Earth dist.	10072 Feb	09	10:23	0°♓01'14	1.42462 AU
evening rise	10072 Feb	15	07:20	9°♓31'57	
	10072 Feb	28	18:31	0°♈	
evening max el	10072 Mar	19	01:20	25°♈02'20	22°19'47
	10072 Mar	25	12:54	0°♉	
retrograde	10072 Mar	28	17:16	0°♉45'21	
asc. node	10072 Mar	29	01:36	0°♉44'45	
	10072 Mar	31	16:16	30°℞♈	
evening set	10072 Apr	02	09:31	28°♈49'52	
inferior conj	10072 Apr	07	17:15	22°♈28'13	2°39'52
minimum elong	10072 Apr	07	15:10	22°♈35'27	2°39'15
min. Earth dist.	10072 Apr	07	14:12	22°♈38'50	0.68602 AU
morning rise	10072 Apr	12	20:41	16°♈17'51	
direct	10072 Apr	17	13:54	14°♈18'37	
morning max el	10072 Apr	26	20:30	19°♈44'00	22°01'08
desc. node	10072 May	02	01:50	25°♈37'45	
	10072 May	05	11:47	0°♉	
	10072 May	25	23:48	0°♊	
morning set	10072 May	29	18:10	5°♊58'52	
max. Earth dist.	10072 Jun	04	08:32	15°♊09'21	1.41374 AU

superior conj	10072 Jun	12	01:57	28°♊25'49	-1°43'09
minimum elong	10072 Jun	12	08:14	28°♊53'33	1°42'53
	10072 Jun	12	23:13	0°♋	
evening rise	10072 Jun	22	16:04	17°♋43'01	
asc. node	10072 Jun	25	00:13	22°♋02'39	
	10072 Jun	29	10:19	0°♌	
evening max el	10072 Jul	08	18:19	13°♌20'35	18°14'09
retrograde	10072 Jul	15	21:39	16°♌56'55	
evening set	10072 Jul	18	04:18	16°♌35'35	
inferior conj	10072 Jul	25	09:33	11°♌52'03	1°04'18
minimum elong	10072 Jul	25	11:33	11°♌47'42	1°03'14
min. Earth dist.	10072 Jul	28	18:08	8°♌59'05	0.59179 AU
desc. node	10072 Jul	29	01:05	8°♌44'57	
morning rise	10072 Aug	01	15:34	6°♌13'49	
direct	10072 Aug	07	23:14	4°♌24'20	
morning max el	10072 Aug	22	08:09	12°♌12'44	27°32'11
	10072 Sep	05	08:10	0°♍	
asc. node	10072 Sep	21	00:21	28°♍04'41	
	10072 Sep	21	22:40	0°♎	
morning set	10072 Sep	22	18:09	1°♎41'55	
superior conj	10072 Sep	29	19:30	17°♎04'30	1°17'59
minimum elong	10072 Sep	29	17:20	16°♎52'24	1°17'48
max. Earth dist.	10072 Sep	29	06:17	15°♎50'57	1.31492 AU
	10072 Oct	05	16:08	0°♏	
evening rise	10072 Oct	06	13:13	1°♏53'28	
	10072 Oct	21	13:30	0°♐	
desc. node	10072 Oct	24	23:01	5°♐06'01	
evening max el	10072 Nov	04	07:34	17°♐30'02	26°14'30
retrograde	10072 Nov	18	05:32	24°♐34'31	
evening set	10072 Nov	24	17:31	22°♐52'43	
min. Earth dist.	10072 Nov	28	20:38	20°♐18'03	0.58708 AU
inferior conj	10072 Dec	02	00:15	17°♐57'47	-4°38'37
minimum elong	10072 Dec	02	08:05	17°♐43'12	4°36'15
morning rise	10072 Dec	10	01:09	13°♐28'42	
direct	10072 Dec	12	05:43	13°♐12'30	
asc. node	10072 Dec	18	00:20	15°♐12'39	
morning max el	10072 Dec	20	09:02	17°♐11'03	18°28'36
	10072 Dec	29	11:58	0°♑	
morning set	10073 Jan	05	07:57	12°♑42'08	
superior conj	10073 Jan	14	07:56	29°♑48'37	0°49'07
minimum elong	10073 Jan	14	10:56	0°♒02'30	0°49'05
	10073 Jan	14	10:24	0°♒	
desc. node	10073 Jan	20	22:04	11°♒38'36	
max. Earth dist.	10073 Jan	21	19:10	13°♒10'02	1.40403 AU
evening rise	10073 Jan	26	02:13	20°♒26'03	
	10073 Feb	01	00:17	0°♓	
	10073 Feb	21	23:28	0°♈	
evening max el	10073 Mar	01	16:06	8°♈48'16	23°40'05
retrograde	10073 Mar	12	11:38	15°♈11'02	
asc. node	10073 Mar	15	22:49	14°♈13'44	
evening set	10073 Mar	17	15:34	13°♈01'24	
min. Earth dist.	10073 Mar	22	10:49	7°♈25'14	0.68456 AU
inferior conj	10073 Mar	23	01:56	6°♈33'33	2°07'01
minimum elong	10073 Mar	22	23:45	6°♈41'03	2°06'20
morning rise	10073 Mar	28	07:55	0°♈29'24	
	10073 Mar	29	00:12	30°℞♓	
direct	10073 Apr	01	11:42	28°♓52'11	
	10073 Apr	05	05:44	0°♈	
morning max el	10073 Apr	09	14:43	3°♈30'08	20°40'55
desc. node	10073 Apr	18	22:39	14°♈53'36	
	10073 Apr	29	10:02	0°♉	
morning set	10073 May	09	02:35	14°♉46'01	
max. Earth dist.	10073 May	17	14:40	28°♉13'59	1.43322 AU
	10073 May	18	16:50	0°♊	

superior conj	10073 May	24	06:35	9°♊11'28	-2°05'13
minimum elong	10073 May	24	11:34	9°♊32'23	2°05'22
evening rise	10073 Jun	05	10:23	0°♋11'36	
	10073 Jun	05	07:45	0°♋	
asc. node	10073 Jun	11	21:15	11°♋29'03	
evening max el	10073 Jun	22	06:51	26°♋25'54	18°04'29
retrograde	10073 Jun	28	19:51	29°♋48'05	
evening set	10073 Jul	01	10:15	29°♋15'45	
inferior conj	10073 Jul	07	22:57	24°♋12'41	2°09'48
minimum elong	10073 Jul	08	01:47	24°♋05'36	2°08'36
min. Earth dist.	10073 Jul	11	01:04	21°♋09'17	0.61444 AU
morning rise	10073 Jul	14	14:55	18°♋11'15	
desc. node	10073 Jul	15	22:14	17°♋22'42	
direct	10073 Jul	21	06:47	15°♋54'00	
morning max el	10073 Aug	04	12:27	23°♋54'53	27°56'36
	10073 Aug	09	23:54	0°♌	
	10073 Aug	29	15:49	0°♍	
morning set	10073 Sep	06	20:35	15°♍53'31	
asc. node	10073 Sep	07	21:10	18°♍00'52	
max. Earth dist.	10073 Sep	12	13:51	28°♍03'33	1.31796 AU
	10073 Sep	13	11:07	0°♎	
superior conj	10073 Sep	14	05:48	1°♎42'43	0°59'54
minimum elong	10073 Sep	14	03:37	1°♎30'41	0°59'30
evening rise	10073 Sep	20	23:57	16°♎32'11	
	10073 Sep	27	13:55	0°♏	
desc. node	10073 Oct	11	20:13	22°♏38'09	
evening max el	10073 Oct	16	22:30	28°♏13'39	24°50'50
	10073 Oct	18	21:55	0°♐	
retrograde	10073 Oct	30	18:16	5°♐10'28	
evening set	10073 Nov	05	06:36	4°♐02'13	
min. Earth dist.	10073 Nov	10	10:00	1°♐17'47	0.56777 AU
	10073 Nov	12	10:12	30°℞♏	
inferior conj	10073 Nov	13	02:33	29°♏33'21	-5°29'46
minimum elong	10073 Nov	13	07:40	29°♏25'02	5°28'47
morning rise	10073 Nov	21	10:59	25°♏26'30	
direct	10073 Nov	23	21:48	25°♏09'42	
morning max el	10073 Dec	03	08:05	29°♏39'41	19°21'03
	10073 Dec	03	16:26	0°♐	
asc. node	10073 Dec	04	21:19	1°♐15'48	
morning set	10073 Dec	20	09:31	27°♐08'42	
	10073 Dec	21	19:44	0°♑	
superior conj	10073 Dec	28	11:52	13°♑15'34	1°13'22
minimum elong	10073 Dec	28	14:53	13°♑30'15	1°13'26
max. Earth dist.	10074 Jan	04	00:50	25°♑35'58	1.38204 AU
	10074 Jan	06	11:35	0°♒	
evening rise	10074 Jan	07	18:39	2°♒16'43	
desc. node	10074 Jan	07	18:58	2°♒18'09	
	10074 Jan	25	04:38	0°♓	
evening max el	10074 Feb	12	05:25	22°♓36'41	24°58'14
retrograde	10074 Feb	24	02:03	29°♓30'35	
evening set	10074 Mar	01	18:09	27°♓08'59	
asc. node	10074 Mar	02	20:02	26°♓09'03	
min. Earth dist.	10074 Mar	06	05:45	22°♓07'34	0.67894 AU
inferior conj	10074 Mar	07	08:35	20°♓39'17	1°25'04
minimum elong	10074 Mar	07	06:46	20°♓45'17	1°24'32
morning rise	10074 Mar	12	19:39	14°♓42'41	
direct	10074 Mar	16	10:55	13°♓26'42	
morning max el	10074 Mar	23	16:36	17°♓27'34	19°33'44
	10074 Apr	02	14:49	0°♈	
greatest brilliancy	10074 Apr	05	08:57	4°♈00'13	-0.7m
desc. node	10074 Apr	05	19:26	4°♈38'53	
morning set	10074 Apr	18	01:07	23°♈11'48	
	10074 Apr	22	10:44	0°♉	
max. Earth dist.	10074 Apr	30	03:10	12°♉02'06	1.44756 AU

superior conj	10074 May 04 10:51	18°♉54'45	-2°12'49
minimum elong	10074 May 04 10:12	18°♉52'10	2°13'07
	10074 May 11 06:46	0°♊	
evening rise	10074 May 18 08:20	11°♊45'00	
	10074 May 29 10:01	0°♋	
asc. node	10074 May 29 18:19	0°♋31'58	
evening max el	10074 Jun 05 20:32	9°♋49'29	18°13'38
retrograde	10074 Jun 12 05:24	13°♋11'47	
evening set	10074 Jun 15 03:36	12°♋26'08	
inferior conj	10074 Jun 21 03:40	7°♋05'11	2°51'14
minimum elong	10074 Jun 21 05:56	6°♋58'49	2°50'22
min. Earth dist.	10074 Jun 23 17:13	4°♋13'38	0.63607 AU
morning rise	10074 Jun 27 06:48	0°♋50'59	
	10074 Jun 28 11:21	30°℞♊	
desc. node	10074 Jul 02 19:20	28°♊19'02	
direct	10074 Jul 03 23:52	28°♊14'21	
	10074 Jul 10 00:15	0°♋	
morning max el	10074 Jul 17 21:06	6°♋17'05	27°43'09
	10074 Aug 04 22:44	0°♌	
morning set	10074 Aug 21 15:44	29°♌41'07	
	10074 Aug 21 19:31	0°♍	
asc. node	10074 Aug 25 18:00	8°♍03'47	
max. Earth dist.	10074 Aug 26 15:22	9°♍56'07	1.32598 AU
superior conj	10074 Aug 29 12:44	16°♍06'51	0°36'57
minimum elong	10074 Aug 29 11:06	15°♍57'58	0°36'29
	10074 Sep 04 22:25	0°♎	
evening rise	10074 Sep 05 11:27	1°♎09'50	
	10074 Sep 21 07:42	0°♏	
evening max el	10074 Sep 28 09:18	8°♏25'25	23°11'48
desc. node	10074 Sep 28 17:27	8°♏44'56	
retrograde	10074 Oct 11 18:17	15°♏05'26	
evening set	10074 Oct 15 20:16	14°♏29'10	
min. Earth dist.	10074 Oct 22 18:45	11°♏16'40	0.55328 AU
inferior conj	10074 Oct 24 09:12	10°♏20'47	-5°41'55
minimum elong	10074 Oct 24 07:02	10°♏23'57	5°41'35
morning rise	10074 Nov 01 19:38	6°♏29'59	
direct	10074 Nov 04 19:05	6°♏08'50	
morning max el	10074 Nov 15 18:09	11°♏19'04	20°36'15
asc. node	10074 Nov 21 18:16	18°♏26'39	
	10074 Nov 28 17:29	0°♐	
morning set	10074 Dec 04 16:42	11°♐49'00	
superior conj	10074 Dec 12 04:12	27°♐16'47	1°29'28
minimum elong	10074 Dec 12 06:21	27°♐27'48	1°29'43
	10074 Dec 13 12:25	0°♑	
max. Earth dist.	10074 Dec 17 08:36	7°♑35'09	1.36107 AU
evening rise	10074 Dec 21 06:16	14°♑57'23	
desc. node	10074 Dec 25 15:57	22°♑50'51	
	10074 Dec 29 21:12	0°♒	
	10075 Jan 19 20:49	0°♓	
evening max el	10075 Jan 25 18:51	6°♓25'18	26°07'04
retrograde	10075 Feb 07 11:32	13°♓38'23	
evening set	10075 Feb 13 15:36	11°♓08'06	
asc. node	10075 Feb 17 17:13	6°♓52'06	
min. Earth dist.	10075 Feb 17 20:46	6°♓41'19	0.66939 AU
inferior conj	10075 Feb 19 11:17	4°♓42'00	0°34'12
minimum elong	10075 Feb 19 10:25	4°♓44'42	0°34'05
	10075 Feb 23 18:05	30°℞♒	
morning rise	10075 Feb 25 05:55	28°♒54'47	
direct	10075 Feb 28 10:00	27°♒57'35	
	10075 Mar 05 07:33	0°♓	
morning max el	10075 Mar 07 01:53	1°♓33'46	18°42'11
desc. node	10075 Mar 23 16:14	24°♓45'59	
	10075 Mar 27 00:35	0°♈	
morning set	10075 Mar 28 13:44	2°♈25'26	
max. Earth dist.	10075 Apr 12 20:51	26°♈21'27	1.45525 AU
superior conj	10075 Apr 13 20:41	27°♈54'49	-2°00'43
minimum elong	10075 Apr 13 13:01	27°♈24'47	2°00'24
	10075 Apr 15 04:38	0°♉	
evening rise	10075 Apr 29 06:35	22°♉18'54	
	10075 May 04 01:36	0°♊	
greatest brilliancy	10075 May 06 13:24	3°♊58'49	-0.9m
asc. node	10075 May 16 15:27	19°♊03'48	
evening max el	10075 May 20 08:33	23°♊24'17	18°40'47
retrograde	10075 May 26 22:22	27°♊00'07	
evening set	10075 May 30 04:30	25°♊59'43	
inferior conj	10075 Jun 04 19:46	20°♊22'17	3°12'58
minimum elong	10075 Jun 04 20:54	20°♊18'47	3°12'27
min. Earth dist.	10075 Jun 06 18:20	17°♊59'43	0.65472 AU
morning rise	10075 Jun 10 12:32	14°♊02'52	
direct	10075 Jun 17 00:36	11°♊18'19	
desc. node	10075 Jun 19 16:23	11°♊42'15	
morning max el	10075 Jun 30 07:36	19°♊09'59	26°57'01
	10075 Jul 09 12:07	0°♋	
	10075 Jul 28 23:18	0°♌	
morning set	10075 Aug 05 00:44	12°♌57'20	
max. Earth dist.	10075 Aug 09 07:41	21°♌23'48	1.33907 AU
asc. node	10075 Aug 12 14:53	28°♌09'36	
superior conj	10075 Aug 13 14:11	0°♍11'12	0°09'37
minimum elong	10075 Aug 13 13:41	0°♍08'36	0°09'15
behind sun begin	10075 Aug 13 09:00	29°♌44'06	
behind sun end	10075 Aug 13 18:22	0°♍33'08	
	10075 Aug 13 12:03	0°♍	
evening rise	10075 Aug 20 21:52	15°♍41'23	
	10075 Aug 28 01:47	0°♎	
evening max el	10075 Sep 10 00:35	18°♎40'09	21°34'27
desc. node	10075 Sep 15 14:42	22°♎57'27	
retrograde	10075 Sep 22 07:41	24°♎46'28	
evening set	10075 Sep 25 00:43	24°♎29'46	
inferior conj	10075 Oct 04 02:58	20°♎32'56	-4°58'30
minimum elong	10075 Oct 03 18:01	20°♎45'27	4°56'31
min. Earth dist.	10075 Oct 04 02:15	20°♎33'57	0.54654 AU
morning rise	10075 Oct 12 12:19	16°♎43'48	
direct	10075 Oct 16 04:39	16°♎14'23	
morning max el	10075 Oct 28 15:03	22°♎08'41	22°11'40
	10075 Nov 04 08:45	0°♏	
asc. node	10075 Nov 08 15:12	6°♏30'16	
morning set	10075 Nov 19 03:07	26°♏36'11	
	10075 Nov 20 17:37	0°♐	
superior conj	10075 Nov 26 05:13	11°♐41'25	1°38'08
minimum elong	10075 Nov 26 06:11	11°♐46'31	1°38'29
max. Earth dist.	10075 Nov 29 23:01	19°♐28'47	1.34308 AU
evening rise	10075 Dec 04 09:20	28°♐17'56	
	10075 Dec 05 06:33	0°♑	
desc. node	10075 Dec 12 12:58	13°♑11'36	
	10075 Dec 23 02:35	0°♒	
evening max el	10076 Jan 08 08:24	20°♒05'32	26°59'07
retrograde	10076 Jan 21 15:09	27°♒26'41	
evening set	10076 Jan 28 05:57	24°♒52'28	
min. Earth dist.	10076 Feb 01 05:31	20°♒59'45	0.65616 AU
inferior conj	10076 Feb 03 07:48	18°♒36'01	-0°25'22
minimum elong	10076 Feb 03 08:31	18°♒33'58	0°24'45
asc. node	10076 Feb 04 14:24	17°♒09'46	
morning rise	10076 Feb 09 12:20	13°♒00'40	
direct	10076 Feb 12 06:50	12°♒18'58	
morning max el	10076 Feb 18 16:37	15°♒42'16	18°07'16
	10076 Feb 29 04:05	0°♓	
morning set	10076 Mar 08 06:26	13°♓04'11	
desc. node	10076 Mar 09 13:02	15°♓08'26	
	10076 Mar 18 18:58	0°♈	

superior conj	10076 Mar 23 03:46	6°♈54'12	-1°29'46
minimum elong	10076 Mar 22 18:29	6°♈17'42	1°28'47
max. Earth dist.	10076 Mar 25 16:55	10°♈54'19	1.45554 AU
	10076 Apr 06 23:18	0°♉	
evening rise	10076 Apr 08 06:50	2°♉02'14	
greatest brilliancy	10076 Apr 20 19:28	21°♉16'09	-0.7m
	10076 Apr 26 20:40	0°♊	
evening max el	10076 May 02 16:29	7°♊03'47	19°24'51
asc. node	10076 May 02 12:36	6°♊53'56	
retrograde	10076 May 09 19:29	11°♊05'30	
evening set	10076 May 13 10:00	9°♊49'39	
inferior conj	10076 May 18 19:49	3°♊57'09	3°19'00
minimum elong	10076 May 18 19:45	3°♊57'22	3°18'38
min. Earth dist.	10076 May 20 03:17	2°♊13'57	0.66928 AU
	10076 May 21 22:20	30°℞♉	
morning rise	10076 May 24 05:07	27°♉37'11	
direct	10076 May 30 07:40	24°♉55'50	
desc. node	10076 Jun 05 13:23	27°♉07'19	
	10076 Jun 09 06:28	0°♊	
morning max el	10076 Jun 11 17:56	2°♊21'59	25°46'30
	10076 Jul 02 15:44	0°♋	
morning set	10076 Jul 17 19:48	25°♋32'09	
	10076 Jul 20 05:33	0°♌	
max. Earth dist.	10076 Jul 21 13:41	2°♌32'05	1.35679 AU
superior conj	10076 Jul 27 07:26	13°♌48'20	-0°21'18
minimum elong	10076 Jul 27 08:43	13°♌54'51	0°21'23
asc. node	10076 Jul 29 11:49	18°♌14'20	
evening rise	10076 Aug 04 05:03	0°♍00'40	
	10076 Aug 04 04:55	0°♍	
evening max el	10076 Aug 22 03:44	29°♍29'00	20°11'55
	10076 Aug 22 16:32	0°♎	
desc. node	10076 Sep 01 11:56	4°♎47'28	
retrograde	10076 Sep 01 20:45	4°♎47'49	
evening set	10076 Sep 03 19:47	4°♎37'55	
inferior conj	10076 Sep 12 21:18	0°♎39'27	-3°24'57
minimum elong	10076 Sep 12 12:25	0°♎52'35	3°21'59
	10076 Sep 13 23:53	30°℞♍	
min. Earth dist.	10076 Sep 14 11:24	29°♍43'02	0.54912 AU
morning rise	10076 Sep 21 04:08	26°♍31'03	
direct	10076 Sep 25 14:46	25°♍48'25	
	10076 Oct 06 07:47	0°♎	
morning max el	10076 Oct 09 03:53	2°♎25'08	23°58'17
asc. node	10076 Oct 25 12:07	25°♎14'09	
	10076 Oct 28 00:52	0°♏	
morning set	10076 Nov 02 14:55	11°♏25'03	
superior conj	10076 Nov 09 12:04	26°♏21'22	1°40'04
minimum elong	10076 Nov 09 11:50	26°♏20'05	1°40'25
	10076 Nov 11 04:31	0°♐	
max. Earth dist.	10076 Nov 11 21:32	1°♐31'11	1.32918 AU
evening rise	10076 Nov 17 00:14	12°♐09'20	
	10076 Nov 26 12:29	0°♑	
desc. node	10076 Nov 28 10:03	3°♑14'40	
	10076 Dec 17 12:23	0°♒	
evening max el	10076 Dec 20 20:51	3°♒26'05	27°27'16
retrograde	10077 Jan 03 12:20	10°♒47'19	
evening set	10077 Jan 10 10:52	8°♒15'47	
min. Earth dist.	10077 Jan 14 05:50	4°♒55'00	0.63953 AU
inferior conj	10077 Jan 16 19:33	2°♒15'20	-1°32'48
minimum elong	10077 Jan 16 22:29	2°♒07'44	1°31'13
	10077 Jan 19 01:49	30°℞♑	
asc. node	10077 Jan 21 11:31	28°♑01'24	
morning rise	10077 Jan 23 12:00	26°♑54'45	
direct	10077 Jan 25 22:46	26°♑24'52	
morning max el	10077 Feb 01 10:03	29°♑46'02	17°49'28
	10077 Feb 01 15:39	0°♒	
morning set	10077 Feb 18 03:04	25°♒04'35	
	10077 Feb 21 00:38	0°♓	
desc. node	10077 Feb 24 09:52	5°♓41'45	
superior conj	10077 Mar 03 02:11	16°♓41'42	-0°48'12
minimum elong	10077 Mar 02 20:56	16°♓20'22	0°47'20
max. Earth dist.	10077 Mar 08 12:12	25°♓22'32	1.44845 AU
	10077 Mar 11 10:37	0°♈	
evening rise	10077 Mar 18 18:58	11°♈23'26	
	10077 Mar 31 03:18	0°♉	
evening max el	10077 Apr 15 18:59	20°♉45'02	20°24'00
asc. node	10077 Apr 19 09:46	23°♉50'01	
retrograde	10077 Apr 23 18:12	25°♉22'39	
evening set	10077 Apr 27 17:50	23°♉51'15	
inferior conj	10077 May 03 01:03	17°♉45'28	3°12'14
minimum elong	10077 May 02 23:58	17°♉49'12	3°11'49
min. Earth dist.	10077 May 03 18:21	16°♉46'15	0.67933 AU
morning rise	10077 May 08 05:51	11°♉27'42	
direct	10077 May 13 20:13	8°♉58'21	
desc. node	10077 May 23 10:21	14°♉04'55	
morning max el	10077 May 25 03:32	15°♉44'41	24°21'14
	10077 Jun 05 21:05	0°♊	
	10077 Jun 25 14:29	0°♋	
morning set	10077 Jun 29 20:11	7°♋13'10	
max. Earth dist.	10077 Jul 03 11:55	13°♋41'23	1.37810 AU
superior conj	10077 Jul 10 13:09	26°♋49'40	-0°54'12
minimum elong	10077 Jul 10 16:41	27°♋06'41	0°53'58
	10077 Jul 12 04:30	0°♌	
asc. node	10077 Jul 16 08:45	8°♌13'43	
evening rise	10077 Jul 19 06:28	14°♌00'13	
	10077 Jul 27 18:47	0°♍	
evening max el	10077 Aug 04 20:23	11°♍03'30	19°09'43
retrograde	10077 Aug 13 21:34	15°♍33'23	
evening set	10077 Aug 15 18:10	15°♍22'47	
desc. node	10077 Aug 19 09:10	14°♍07'29	
inferior conj	10077 Aug 24 05:42	11°♍11'00	-1°30'27
minimum elong	10077 Aug 24 01:44	11°♍17'43	1°29'04
min. Earth dist.	10077 Aug 27 00:29	9°♍18'40	0.56073 AU
morning rise	10077 Sep 01 06:19	6°♍27'33	
direct	10077 Sep 06 12:24	5°♍23'38	
morning max el	10077 Sep 20 16:13	12°♍36'18	25°40'24
	10077 Oct 04 05:01	0°♎	
asc. node	10077 Oct 12 09:00	14°♎27'20	
morning set	10077 Oct 18 02:17	26°♎09'31	
	10077 Oct 19 21:00	0°♏	
superior conj	10077 Oct 24 22:20	11°♏08'20	1°35'54
minimum elong	10077 Oct 24 21:05	11°♏01'25	1°36'06
max. Earth dist.	10077 Oct 26 02:41	13°♏44'41	1.31987 AU
evening rise	10077 Oct 31 23:45	26°♏22'26	
	10077 Nov 02 18:07	0°♐	
desc. node	10077 Nov 15 07:10	22°♐51'34	
	10077 Nov 19 22:35	0°♑	
evening max el	10077 Dec 03 06:03	16°♑13'35	27°25'33
retrograde	10077 Dec 17 02:21	23°♑29'57	
evening set	10077 Dec 24 03:20	21°♑10'02	
min. Earth dist.	10077 Dec 27 20:12	18°♑15'42	0.62011 AU
inferior conj	10077 Dec 30 19:29	15°♑31'37	-2°45'57
minimum elong	10077 Dec 31 00:59	15°♑18'56	2°43'28
morning rise	10078 Jan 07 01:06	10°♑28'50	
asc. node	10078 Jan 08 08:37	10°♑10'48	
direct	10078 Jan 09 06:28	10°♑07'06	
morning max el	10078 Jan 16 02:57	13°♑35'47	17°49'25
	10078 Jan 27 07:53	0°♒	
morning set	10078 Jan 31 21:36	8°♒06'54	
desc. node	10078 Feb 11 06:41	26°♒21'25	

superior conj	10078 Feb 12	01:00	27°♒39'23	-0°05'46	
minimum elong	10078 Feb 12	00:28	27°♒37'10	0°05'25	
behind sun begin	10078 Feb 11	16:13	27°♒02'03		
behind sun end	10078 Feb 12	08:44	28°♒12'12		
	10078 Feb 13	10:15	0°♓		
max. Earth dist.	10078 Feb 19	03:52	9°♓28'30	1.43479 AU	
evening rise	10078 Feb 26	10:03	21°♓00'08		
	10078 Mar 04	06:48	0°♈		
	10078 Mar 25	16:00	0°♉		
evening max el	10078 Mar 29	15:57	4°♉27'42	21°35'13	
asc. node	10078 Apr 06	06:56	9°♉37'21		
retrograde	10078 Apr 07	16:27	9°♉47'00		
evening set	10078 Apr 12	02:15	8°♉00'18		
inferior conj	10078 Apr 17	09:12	1°♉43'34	2°54'34	
minimum elong	10078 Apr 17	07:23	1°♉49'54	2°54'01	
min. Earth dist.	10078 Apr 17	13:23	1°♉29'01	0.68481 AU	
	10078 Apr 18	15:08	30°℞♈		
morning rise	10078 Apr 22	12:20	25°♈29'55		
direct	10078 Apr 27	13:21	23°♈18'33		
morning max el	10078 May 07	13:50	29°♈14'44	22°51'20	
	10078 May 08	07:29	0°♉		
desc. node	10078 May 10	07:16	2°♉10'23		
	10078 May 30	15:02	0°♊		
morning set	10078 Jun 10	20:41	17°♊47'46		
max. Earth dist.	10078 Jun 15	08:42	25°♊21'47	1.40094 AU	
	10078 Jun 18	01:00	0°♋		
superior conj	10078 Jun 23	03:21	9°♋06'26	-1°26'26	
minimum elong	10078 Jun 23	08:59	9°♋32'09	1°26'06	
evening rise	10078 Jul 02	23:03	27°♋32'27		
asc. node	10078 Jul 03	05:42	28°♋04'07		
	10078 Jul 04	06:06	0°♌		
evening max el	10078 Jul 18	23:54	23°♌21'02	18°28'37	
retrograde	10078 Jul 26	16:43	27°♌12'18		
evening set	10078 Jul 28	18:58	26°♌56'02		
inferior conj	10078 Aug 05	11:12	22°♌24'49	0°14'31	
minimum elong	10078 Aug 05	11:43	22°♌23'47	0°14'01	
transit middle	10078 Aug 05	11:43	22°♌23'47	0°14'01	
transit begin	10078 Aug 05	09:58	22°♌27'16		
transit end	10078 Aug 05	13:29	22°♌20'17		
desc. node	10078 Aug 06	06:21	21°♌46'46		
min. Earth dist.	10078 Aug 08	19:05	19°♌48'04	0.57929 AU	
morning rise	10078 Aug 13	00:55	17°♌04'38		
direct	10078 Aug 19	00:56	15°♌32'06		
morning max el	10078 Sep 02	09:35	23°♌10'30	27°00'46	
	10078 Sep 08	12:30	0°♍		
	10078 Sep 27	05:09	0°♎		
asc. node	10078 Sep 29	05:52	4°♎02'00		
morning set	10078 Oct 02	11:35	10°♎44'52		
superior conj	10078 Oct 09	10:02	25°♎56'14	1°26'05	
minimum elong	10078 Oct 09	08:05	25°♎45'22	1°26'02	
max. Earth dist.	10078 Oct 09	11:34	26°♎04'45	1.31533 AU	
	10078 Oct 11	05:54	0°♏		
evening rise	10078 Oct 16	05:19	10°♏50'17		
	10078 Oct 25	23:38	0°♐		
desc. node	10078 Nov 02	04:18	11°♐51'57		
evening max el	10078 Nov 15	09:38	28°♐17'01	26°50'08	
	10078 Nov 17	07:44	0°♑		
retrograde	10078 Nov 29	07:57	5°♑25'56		
evening set	10078 Dec 06	03:26	3°♑27'52		
min. Earth dist.	10078 Dec 09	24:00	0°♑49'54	0.59912 AU	
	10078 Dec 11	01:13	30°℞♐		
inferior conj	10078 Dec 13	04:12	28°♐16'17	-3°59'42	
minimum elong	10078 Dec 13	11:45	28°♐01'01	3°56'56	
morning rise	10078 Dec 20	22:42	23°♐34'02		
direct	10078 Dec 23	02:07	23°♐16'50		
asc. node	10078 Dec 26	05:42	23°♐55'52		
morning max el	10078 Dec 30	15:51	27°♐02'13	18°08'20	
	10079 Jan 02	07:03	0°♑		
morning set	10079 Jan 15	07:49	21°♑52'51		
	10079 Jan 19	15:58	0°♒		
superior conj	10079 Jan 24	23:55	9°♒44'53	0°31'21	
minimum elong	10079 Jan 25	02:14	9°♒55'16	0°31'20	
desc. node	10079 Jan 29	03:30	17°♒03'49		
max. Earth dist.	10079 Feb 01	14:54	22°♒59'43	1.41620 AU	
	10079 Feb 05	20:35	0°♓		
evening rise	10079 Feb 06	16:56	1°♓22'24		
	10079 Feb 25	17:21	0°♈		
evening max el	10079 Mar 12	08:34	18°♈12'30	22°53'55	
retrograde	10079 Mar 22	12:32	24°♈13'17		
asc. node	10079 Mar 24	04:07	24°♈00'02		
evening set	10079 Mar 27	09:34	22°♈11'52		
inferior conj	10079 Apr 01	18:14	15°♈47'11	2°27'04	
minimum elong	10079 Apr 01	16:03	15°♈54'45	2°26'24	
min. Earth dist.	10079 Apr 01	10:05	16°♈15'27	0.68588 AU	
morning rise	10079 Apr 06	22:25	9°♈39'06		
direct	10079 Apr 11	09:53	7°♈48'59		
morning max el	10079 Apr 20	04:04	12°♈53'21	21°25'35	
desc. node	10079 Apr 27	04:06	21°♈04'24		
	10079 May 03	17:15	0°♉		
morning set	10079 May 21	18:18	27°♉08'51		
	10079 May 23	13:22	0°♊		
max. Earth dist.	10079 May 28	10:32	7°♊54'40	1.42253 AU	
superior conj	10079 Jun 04	21:24	20°♊27'48	-1°53'51	
minimum elong	10079 Jun 05	03:35	20°♊54'33	1°53'46	
	10079 Jun 10	07:48	0°♋		
evening rise	10079 Jun 16	02:45	10°♋26'52		
asc. node	10079 Jun 20	02:41	17°♋40'31		
	10079 Jun 27	11:41	0°♌		
evening max el	10079 Jul 02	10:17	6°♌11'38	18°07'44	
retrograde	10079 Jul 09	06:00	9°♌39'43		
evening set	10079 Jul 11	16:03	9°♌13'56		
inferior conj	10079 Jul 18	13:49	4°♌22'03	1°35'15	
minimum elong	10079 Jul 18	16:25	4°♌16'03	1°34'02	
min. Earth dist.	10079 Jul 21	20:49	1°♌21'45	0.60146 AU	
	10079 Jul 23	12:17	30°℞♋		
desc. node	10079 Jul 24	03:31	29°♋31'09		
morning rise	10079 Jul 25	13:52	28°♋32'54		
direct	10079 Aug 01	02:10	26°♋30'42		
	10079 Aug 10	05:58	0°♌		
morning max el	10079 Aug 15	09:51	4°♌25'04	27°47'16	
	10079 Sep 03	08:30	0°♍		
asc. node	10079 Sep 16	02:43	23°♍51'32		
morning set	10079 Sep 16	17:04	25°♍06'07		
	10079 Sep 19	00:34	0°♎		
max. Earth dist.	10079 Sep 22	20:44	8°♎22'54	1.31561 AU	
superior conj	10079 Sep 23	21:21	10°♎39'11	1°10'57	
minimum elong	10079 Sep 23	19:06	10°♎26'46	1°10'39	
evening rise	10079 Sep 30	14:43	25°♎26'35		
	10079 Oct 02	18:24	0°♏		
desc. node	10079 Oct 20	01:29	0°♐01'37		
	10079 Oct 20	01:00	0°♐		
evening max el	10079 Oct 28	05:27	9°♐29'31	25°41'56	
retrograde	10079 Nov 11	03:05	16°♐30'29		
evening set	10079 Nov 17	06:29	15°♐02'52		
min. Earth dist.	10079 Nov 21	17:55	12°♐26'16	0.57845 AU	
inferior conj	10079 Nov 24	18:19	10°♐19'42	-5°03'45	
minimum elong	10079 Nov 25	01:35	10°♐06'57	5°01'54	
morning rise	10079 Dec 02	23:01	5°♐59'57		
direct	10079 Dec 05	05:30	5°♐43'51		

asc. node	10079 Dec 13 02:44	9°♐12'40	
morning max el	10079 Dec 13 21:00	9°♐54'55	18°48'07
	10079 Dec 27 00:44	0°♑	
morning set	10079 Dec 30 04:57	6°♑08'34	
superior conj	10080 Jan 07 18:46	22°♑46'42	1°00'26
minimum elong	10080 Jan 07 21:55	23°♑01'38	1°00'24
	10080 Jan 11 16:00	0°♒	
max. Earth dist.	10080 Jan 14 22:21	5°♒51'33	1.39475 AU
desc. node	10080 Jan 16 00:23	7°♒45'51	
evening rise	10080 Jan 18 21:14	12°♒41'59	
	10080 Jan 29 15:15	0°♓	
	10080 Feb 20 24:00	0°♈	
evening max el	10080 Feb 22 22:44	2°♈00'54	24°14'02
retrograde	10080 Mar 05 05:13	8°♈37'24	
asc. node	10080 Mar 10 01:19	6°♈48'52	
evening set	10080 Mar 10 14:21	6°♈22'31	
min. Earth dist.	10080 Mar 15 06:15	1°♈01'12	0.68273 AU
inferior conj	10080 Mar 16 02:18	29°♓53'34	1°50'20
minimum elong	10080 Mar 16 00:13	0°♈00'38	1°49'41
	10080 Mar 16 00:24	30°℞♓	
morning rise	10080 Mar 21 10:09	23°♓52'27	
direct	10080 Mar 25 08:35	22°♓24'16	
morning max el	10080 Apr 02 01:24	26°♓44'28	20°10'30
	10080 Apr 05 01:05	0°♈	
desc. node	10080 Apr 13 00:55	10°♈34'03	
	10080 Apr 26 03:24	0°♉	
morning set	10080 Apr 29 19:49	5°♉39'01	
max. Earth dist.	10080 May 09 20:00	21°♉21'19	1.44015 AU
	10080 May 15 04:14	0°♊	
superior conj	10080 May 15 15:33	0°♊46'25	-2°10'36
minimum elong	10080 May 15 18:40	0°♊59'13	2°10'53
evening rise	10080 May 28 12:56	22°♊33'01	
	10080 Jun 01 20:34	0°♋	
asc. node	10080 Jun 05 23:43	6°♋57'37	
evening max el	10080 Jun 14 23:43	19°♋25'44	18°06'06
retrograde	10080 Jun 21 09:36	22°♋46'04	
evening set	10080 Jun 24 03:27	22°♋08'07	
inferior conj	10080 Jun 30 10:14	16°♋56'58	2°30'03
minimum elong	10080 Jun 30 12:57	16°♋49'49	2°28'59
min. Earth dist.	10080 Jul 03 07:22	13°♋56'29	0.62398 AU
morning rise	10080 Jul 06 20:32	10°♋49'09	
desc. node	10080 Jul 10 00:39	9°♋02'59	
direct	10080 Jul 13 13:46	8°♋22'42	
morning max el	10080 Jul 27 16:16	16°♋24'46	27°55'19
	10080 Aug 07 20:55	0°♌	
	10080 Aug 26 01:21	0°♍	
morning set	10080 Aug 30 16:41	9°♍07'54	
asc. node	10080 Sep 01 23:33	13°♍50'57	
max. Earth dist.	10080 Sep 05 02:21	20°♍28'39	1.32080 AU
superior conj	10080 Sep 07 06:27	25°♍11'47	0°50'45
minimum elong	10080 Sep 07 04:25	25°♍00'41	0°50'17
	10080 Sep 09 10:59	0°♎	
evening rise	10080 Sep 14 02:02	10°♎05'31	
	10080 Sep 24 04:25	0°♏	
desc. node	10080 Oct 05 22:42	17°♏00'31	
evening max el	10080 Oct 08 17:51	19°♏55'55	24°09'34
retrograde	10080 Oct 22 10:02	26°♏46'45	
evening set	10080 Oct 27 08:55	25°♏52'51	
min. Earth dist.	10080 Nov 02 04:31	22°♏58'51	0.56082 AU
inferior conj	10080 Nov 04 11:51	21°♏33'59	-5°40'57
minimum elong	10080 Nov 04 14:19	21°♏30'12	5°40'30
morning rise	10080 Nov 12 21:46	17°♏35'22	
direct	10080 Nov 15 13:30	17°♏17'02	
morning max el	10080 Nov 25 14:42	22°♏02'50	19°50'24
asc. node	10080 Nov 28 23:44	25°♏46'20	
	10080 Dec 02 01:16	0°♐	
morning set	10080 Dec 13 09:16	20°♐42'14	
	10080 Dec 17 22:55	0°♑	
superior conj	10080 Dec 21 04:31	6°♑29'52	1°21'09
minimum elong	10080 Dec 21 07:14	6°♑43'24	1°21'17
max. Earth dist.	10080 Dec 27 04:44	18°♑05'41	1.37285 AU
evening rise	10080 Dec 30 22:15	24°♑54'55	
desc. node	10081 Jan 01 21:20	28°♑23'04	
	10081 Jan 02 19:39	0°♒	
	10081 Jan 22 06:16	0°♓	
evening max el	10081 Feb 04 11:59	15°♓50'08	25°28'59
retrograde	10081 Feb 16 17:31	22°♓53'12	
evening set	10081 Feb 22 14:58	20°♓27'13	
asc. node	10081 Feb 24 22:31	18°♓09'32	
min. Earth dist.	10081 Feb 26 23:40	15°♓40'52	0.67544 AU
inferior conj	10081 Feb 28 07:32	13°♓58'33	1°04'36
minimum elong	10081 Feb 28 06:02	14°♓03'21	1°04'12
morning rise	10081 Mar 05 21:33	8°♓05'56	
direct	10081 Mar 09 07:55	6°♓58'18	
morning max el	10081 Mar 16 06:42	10°♓46'46	19°09'50
greatest brilliancy	10081 Mar 29 09:41	28°♓13'38	-0.7m
desc. node	10081 Mar 30 21:43	0°♈29'30	
	10081 Mar 30 13:55	0°♈	
morning set	10081 Apr 08 21:42	14°♈18'13	
	10081 Apr 19 00:09	0°♉	
max. Earth dist.	10081 Apr 22 11:25	5°♉26'23	1.45175 AU
superior conj	10081 Apr 25 10:37	10°♉07'13	-2°10'13
minimum elong	10081 Apr 25 06:45	9°♉51'52	2°10'21
	10081 May 07 19:01	0°♊	
evening rise	10081 May 10 01:04	3°♊41'38	
asc. node	10081 May 23 20:48	25°♊48'31	
	10081 May 26 23:03	0°♋	
evening max el	10081 May 29 12:57	2°♋54'44	18°22'59
retrograde	10081 Jun 04 22:56	6°♋21'32	
evening set	10081 Jun 08 00:27	5°♋29'42	
inferior conj	10081 Jun 13 20:18	0°♋01'17	3°02'37
minimum elong	10081 Jun 13 22:07	29°♊55'56	3°01'55
	10081 Jun 13 20:44	30°℞♊	
min. Earth dist.	10081 Jun 16 03:29	27°♊20'32	0.64442 AU
morning rise	10081 Jun 19 18:40	23°♊43'55	
direct	10081 Jun 26 10:03	21°♊02'47	
desc. node	10081 Jun 26 21:43	21°♊03'34	
morning max el	10081 Jul 10 02:17	29°♊02'39	27°27'10
	10081 Jul 11 00:35	0°♋	
	10081 Aug 01 17:56	0°♌	
morning set	10081 Aug 14 07:58	22°♌43'53	
	10081 Aug 17 22:52	0°♍	
max. Earth dist.	10081 Aug 19 00:35	2°♍12'37	1.33094 AU
asc. node	10081 Aug 19 20:26	3°♍55'58	
superior conj	10081 Aug 22 11:21	9°♍28'35	0°25'51
minimum elong	10081 Aug 22 10:07	9°♍21'59	0°25'24
evening rise	10081 Aug 29 13:21	24°♍41'48	
	10081 Sep 01 02:06	0°♎	
evening max el	10081 Sep 20 05:11	0°♏03'57	22°29'11
	10081 Sep 20 03:35	0°♏	
desc. node	10081 Sep 22 19:57	2°♏22'54	
retrograde	10081 Oct 03 05:12	6°♏32'41	
evening set	10081 Oct 06 16:05	6°♏06'24	
min. Earth dist.	10081 Oct 14 12:13	2°♏37'10	0.54929 AU
inferior conj	10081 Oct 15 11:45	2°♏03'51	-5°30'41
minimum elong	10081 Oct 15 06:10	2°♏11'46	5°29'50
	10081 Oct 19 07:39	30°℞♎	
morning rise	10081 Oct 23 21:58	28°♎16'23	

direct	10081 Oct 27 04:06	27°♎52'25	
	10081 Nov 03 10:02	0°♏	
morning max el	10081 Nov 07 19:03	3°♏20'55	21°14'50
asc. node	10081 Nov 15 20:41	13°♏21'27	
	10081 Nov 25 02:29	0°♐	
morning set	10081 Nov 27 18:05	5°♐26'17	
superior conj	10081 Dec 05 00:58	20°♐42'31	1°34'00
minimum elong	10081 Dec 05 02:38	20°♐51'10	1°34'19
max. Earth dist.	10081 Dec 09 14:41	29°♐59'07	1.35292 AU
	10081 Dec 09 14:52	0°♑	
evening rise	10081 Dec 13 16:53	7°♑53'32	
desc. node	10081 Dec 19 18:21	18°♑51'17	
	10081 Dec 26 11:40	0°♒	
evening max el	10082 Jan 18 01:17	29°♒35'27	26°31'34
	10082 Jan 18 11:32	0°♓	
retrograde	10082 Jan 31 00:45	6°♓53'51	
evening set	10082 Feb 06 09:40	4°♓20'54	
min. Earth dist.	10082 Feb 10 12:12	0°♓08'56	0.66421 AU
	10082 Feb 10 15:14	30°♑℞	
asc. node	10082 Feb 11 19:43	28°♒34'35	
inferior conj	10082 Feb 12 07:51	27°♒57'58	0°09'59
minimum elong	10082 Feb 12 07:35	27°♒58'48	0°10'08
transit middle	10082 Feb 12 07:35	27°♒58'48	0°10'08
transit begin	10082 Feb 12 05:20	28°♒05'35	
transit end	10082 Feb 12 09:50	27°♒52'01	
morning rise	10082 Feb 18 06:28	22°♒15'45	
direct	10082 Feb 21 06:12	21°♒25'44	
morning max el	10082 Feb 27 18:40	24°♒55'10	18°25'16
	10082 Mar 04 02:37	0°♓	
desc. node	10082 Mar 17 18:32	20°♓43'46	
morning set	10082 Mar 19 21:28	24°♓06'06	
	10082 Mar 23 14:41	0°♈	
superior conj	10082 Apr 04 16:58	19°♈00'57	-1°49'31
minimum elong	10082 Apr 04 07:43	18°♈24'47	1°48'52
max. Earth dist.	10082 Apr 05 06:09	19°♈52'29	1.45626 AU
	10082 Apr 11 17:31	0°♉	
evening rise	10082 Apr 20 13:19	13°♉51'53	
greatest brilliancy	10082 Apr 30 07:38	29°♉12'02	-0.8m
	10082 Apr 30 20:03	0°♊	
asc. node	10082 May 10 17:56	14°♊04'07	
evening max el	10082 May 12 23:23	16°♊31'54	18°57'32
retrograde	10082 May 19 18:05	20°♊17'44	
evening set	10082 May 23 03:35	19°♊11'00	
inferior conj	10082 May 28 16:09	13°♊27'00	3°17'17
minimum elong	10082 May 28 16:47	13°♊25'02	3°16'50
min. Earth dist.	10082 May 30 08:18	11°♊20'00	0.66140 AU
morning rise	10082 Jun 03 05:22	7°♊06'35	
direct	10082 Jun 09 13:44	4°♊22'01	
desc. node	10082 Jun 13 18:46	5°♊22'11	
morning max el	10082 Jun 22 13:02	12°♊05'39	26°29'25
	10082 Jul 06 20:58	0°♋	
	10082 Jul 25 09:01	0°♌	
morning set	10082 Jul 28 11:34	5°♌44'10	
max. Earth dist.	10082 Aug 01 12:19	13°♌30'00	1.34602 AU
superior conj	10082 Aug 06 09:38	23°♌22'12	-0°03'11
minimum elong	10082 Aug 06 09:49	23°♌23'13	0°03'25
behind sun begin	10082 Aug 06 04:04	22°♌53'32	
behind sun end	10082 Aug 06 15:35	23°♌52'57	
asc. node	10082 Aug 06 17:19	24°♌01'54	
	10082 Aug 09 14:01	0°♍	
evening rise	10082 Aug 13 22:38	9°♍08'42	
	10082 Aug 24 23:21	0°♎	
evening max el	10082 Sep 02 00:54	10°♎30'28	20°57'05
desc. node	10082 Sep 09 17:12	15°♎37'42	
retrograde	10082 Sep 13 17:09	16°♎17'52	
evening set	10082 Sep 16 00:00	16°♎05'28	
inferior conj	10082 Sep 25 03:56	12°♎09'43	-4°23'37
minimum elong	10082 Sep 24 18:06	12°♎23'40	4°20'53
min. Earth dist.	10082 Sep 25 20:27	11°♎46'17	0.54643 AU
morning rise	10082 Oct 03 12:24	8°♎14'28	
direct	10082 Oct 07 12:10	7°♎40'16	
morning max el	10082 Oct 20 11:46	13°♎54'00	22°56'27
	10082 Nov 01 17:21	0°♏	
asc. node	10082 Nov 02 17:37	1°♏43'30	
morning set	10082 Nov 12 05:15	20°♏14'24	
	10082 Nov 16 18:19	0°♐	
superior conj	10082 Nov 19 04:46	5°♐14'34	1°39'43
minimum elong	10082 Nov 19 05:13	5°♐16'55	1°40'06
max. Earth dist.	10082 Nov 22 08:12	11°♐53'36	1.33658 AU
evening rise	10082 Nov 27 01:22	21°♐28'13	
	10082 Dec 01 12:37	0°♑	
desc. node	10082 Dec 06 15:25	9°♑05'18	
	10082 Dec 20 08:00	0°♒	
evening max el	10082 Dec 31 14:31	13°♒08'42	27°14'29
retrograde	10083 Jan 14 01:58	20°♒31'30	
evening set	10083 Jan 20 20:21	17°♒57'32	
min. Earth dist.	10083 Jan 24 17:45	14°♒18'38	0.64938 AU
inferior conj	10083 Jan 27 00:59	11°♒46'48	-0°53'06
minimum elong	10083 Jan 27 02:35	11°♒42'25	0°52'05
asc. node	10083 Jan 29 16:52	8°♒59'50	
morning rise	10083 Feb 02 10:22	6°♒17'17	
direct	10083 Feb 05 01:12	5°♒41'13	
morning max el	10083 Feb 11 10:54	9°♒02'48	17°57'34
	10083 Feb 25 20:55	0°♓	
morning set	10083 Mar 01 02:39	5°♓21'49	
desc. node	10083 Mar 04 15:20	11°♓11'37	
superior conj	10083 Mar 15 04:50	28°♓16'59	-1°12'50
minimum elong	10083 Mar 14 20:51	27°♓45'15	1°11'48
	10083 Mar 16 06:48	0°♈	
max. Earth dist.	10083 Mar 19 01:46	4°♈24'15	1.45334 AU
evening rise	10083 Mar 31 06:46	23°♈21'47	
	10083 Apr 04 14:37	0°♉	
greatest brilliancy	10083 Apr 14 13:12	14°♉58'42	-0.6m
	10083 Apr 25 23:56	0°♊	
evening max el	10083 Apr 26 05:11	0°♊13'23	19°48'21
asc. node	10083 Apr 27 15:05	1°♊33'44	
retrograde	10083 May 03 16:06	4°♊29'18	
evening set	10083 May 07 10:20	3°♊07'01	
	10083 May 10 13:46	30°℞♉	
inferior conj	10083 May 12 18:45	27°♉08'53	3°17'33
minimum elong	10083 May 12 18:13	27°♉10'40	3°17'10
min. Earth dist.	10083 May 13 20:09	25°♉43'48	0.67414 AU
morning rise	10083 May 18 01:46	20°♉49'33	
direct	10083 May 23 23:29	18°♉12'02	
desc. node	10083 May 31 15:44	21°♉30'32	
morning max el	10083 Jun 04 22:51	25°♉23'04	25°11'19
	10083 Jun 09 03:35	0°♊	
	10083 Jun 30 08:58	0°♋	
morning set	10083 Jul 10 23:18	17°♋58'06	
max. Earth dist.	10083 Jul 14 13:57	24°♋33'40	1.36555 AU
	10083 Jul 17 11:05	0°♌	
superior conj	10083 Jul 20 22:26	6°♌45'44	-0°35'08
minimum elong	10083 Jul 21 00:38	6°♌56'39	0°35'05
asc. node	10083 Jul 24 14:13	14°♌05'02	
evening rise	10083 Jul 29 03:40	23°♌20'32	
	10083 Aug 01 11:43	0°♍	
evening max el	10083 Aug 15 10:02	21°♍39'00	19°42'50
retrograde	10083 Aug 25 09:25	26°♍35'37	

evening set	10083 Aug 27 06:01	26°♍26'06	
desc. node	10083 Aug 27 14:25	26°♍22'15	
inferior conj	10083 Sep 05 02:50	22°♍23'30	-2°36'47
minimum elong	10083 Sep 04 19:48	22°♍34'26	2°34'17
min. Earth dist.	10083 Sep 07 07:07	21°♍02'24	0.55312 AU
morning rise	10083 Sep 13 07:37	18°♍01'24	
direct	10083 Sep 18 02:50	17°♍10'25	
morning max el	10083 Oct 01 23:13	24°♍03'34	24°43'15
	10083 Oct 07 09:23	0°♎	
asc. node	10083 Oct 20 14:30	20°♎40'58	
	10083 Oct 25 07:38	0°♏	
morning set	10083 Oct 27 17:01	5°♏01'37	
superior conj	10083 Nov 03 13:17	19°♏58'02	1°39'01
minimum elong	10083 Nov 03 12:35	19°♏54'12	1°39'18
max. Earth dist.	10083 Nov 05 09:46	24°♏00'40	1.32467 AU
	10083 Nov 08 04:50	0°♐	
evening rise	10083 Nov 10 20:16	5°♐29'55	
desc. node	10083 Nov 23 12:30	28°♐58'18	
	10083 Nov 24 03:29	0°♑	
evening max el	10083 Dec 14 02:04	26°♑17'30	27°30'41
	10083 Dec 18 12:24	0°♒	
retrograde	10083 Dec 27 20:10	3°♒36'43	
evening set	10084 Jan 03 20:21	1°♒09'23	
	10084 Jan 05 08:46	30°℞♑	
min. Earth dist.	10084 Jan 07 14:09	28°♑00'26	0.63148 AU
inferior conj	10084 Jan 10 08:07	25°♑17'34	-2°03'24
minimum elong	10084 Jan 10 12:08	25°♑07'38	2°01'23
asc. node	10084 Jan 16 14:00	20°♑20'27	
morning rise	10084 Jan 17 06:03	20°♑03'51	
direct	10084 Jan 19 14:11	19°♑37'50	
morning max el	10084 Jan 26 04:25	23°♑01'15	17°47'12
	10084 Jan 31 16:43	0°♒	
morning set	10084 Feb 11 09:25	17°♒51'20	
	10084 Feb 18 10:37	0°♓	
desc. node	10084 Feb 19 12:09	1°♓48'04	
superior conj	10084 Feb 23 13:04	8°♓32'48	-0°29'50
minimum elong	10084 Feb 23 09:57	8°♓19'58	0°29'10
max. Earth dist.	10084 Feb 29 19:55	18°♓45'33	1.44337 AU
	10084 Mar 07 23:25	0°♈	
evening rise	10084 Mar 09 18:15	2°♈45'19	
	10084 Mar 28 03:17	0°♉	
evening max el	10084 Apr 08 05:24	13°♉55'53	20°53'05
asc. node	10084 Apr 13 12:15	18°♉02'52	
retrograde	10084 Apr 16 14:42	18°♉50'16	
evening set	10084 Apr 20 18:36	17°♉12'16	
inferior conj	10084 Apr 26 01:28	11°♉01'45	3°05'57
minimum elong	10084 Apr 26 00:01	11°♉06'43	3°05'30
min. Earth dist.	10084 Apr 26 13:04	10°♉21'37	0.68228 AU
morning rise	10084 May 01 05:14	4°♉45'46	
direct	10084 May 06 14:07	2°♉23'25	
morning max el	10084 May 17 08:15	8°♉48'27	23°42'59
desc. node	10084 May 17 12:39	8°♉59'37	
	10084 Jun 02 23:44	0°♊	
morning set	10084 Jun 21 14:05	29°♊12'18	
	10084 Jun 22 01:17	0°♋	
max. Earth dist.	10084 Jun 25 10:52	5°♋53'43	1.38787 AU
superior conj	10084 Jul 02 22:07	19°♋29'55	-1°08'09
minimum elong	10084 Jul 03 02:37	19°♋51'06	1°07'50
	10084 Jul 08 09:38	0°♌	
asc. node	10084 Jul 10 11:10	4°♌01'32	
evening rise	10084 Jul 12 01:45	7°♌09'56	
	10084 Jul 25 05:54	0°♍	
evening max el	10084 Jul 28 07:46	3°♍33'09	18°49'38
retrograde	10084 Aug 05 17:41	7°♍44'46	
evening set	10084 Aug 07 16:20	7°♍32'10	
desc. node	10084 Aug 13 11:35	4°♍50'09	
inferior conj	10084 Aug 15 19:49	3°♍12'11	-0°43'27
minimum elong	10084 Aug 15 18:00	3°♍15'27	0°42'58
min. Earth dist.	10084 Aug 18 22:01	0°♍59'12	0.56802 AU
	10084 Aug 20 09:38	30°℞♌	
morning rise	10084 Aug 23 16:22	28°♌13'00	
direct	10084 Aug 29 06:36	26°♌57'41	
	10084 Sep 07 04:27	0°♍	
morning max el	10084 Sep 12 13:06	4°♍21'33	26°18'11
	10084 Oct 01 02:23	0°♎	
asc. node	10084 Oct 06 11:23	10°♎04'48	
morning set	10084 Oct 11 03:44	19°♎43'32	
	10084 Oct 15 20:45	0°♏	
superior conj	10084 Oct 18 00:24	4°♏46'39	1°32'25
minimum elong	10084 Oct 17 22:48	4°♏37'48	1°32'30
max. Earth dist.	10084 Oct 18 17:13	6°♏19'53	1.31739 AU
evening rise	10084 Oct 24 22:42	19°♏50'55	
	10084 Oct 29 23:04	0°♐	
desc. node	10084 Nov 09 09:36	18°♐21'47	
	10084 Nov 17 12:42	0°♑	
evening max el	10084 Nov 25 09:24	8°♑48'41	27°14'44
retrograde	10084 Dec 09 06:26	16°♑01'08	
evening set	10084 Dec 16 06:22	13°♑49'20	
min. Earth dist.	10084 Dec 19 23:55	11°♑03'39	0.61132 AU
inferior conj	10084 Dec 23 02:03	8°♑22'17	-3°17'38
minimum elong	10084 Dec 23 08:34	8°♑08'03	3°14'53
morning rise	10084 Dec 30 13:17	3°♑27'46	
direct	10085 Jan 01 17:28	3°♑08'15	
asc. node	10085 Jan 02 11:05	3°♑10'33	
morning max el	10085 Jan 08 20:03	6°♑42'38	17°55'04
	10085 Jan 23 18:56	0°♒	
morning set	10085 Jan 24 11:20	1°♒14'50	
superior conj	10085 Feb 03 22:32	20°♒00'50	0°10'53
minimum elong	10085 Feb 03 23:30	20°♒05'00	0°11'02
behind sun begin	10085 Feb 03 17:29	19°♒38'51	
behind sun end	10085 Feb 04 05:31	20°♒31'06	
desc. node	10085 Feb 05 09:00	22°♒29'44	
	10085 Feb 09 19:28	0°♓	
max. Earth dist.	10085 Feb 11 10:17	2°♓40'34	1.42741 AU
evening rise	10085 Feb 17 14:56	12°♓39'07	
	10085 Feb 28 23:58	0°♈	
evening max el	10085 Mar 22 00:19	27°♈39'17	22°08'03
	10085 Mar 24 13:00	0°♉	
asc. node	10085 Mar 31 09:26	3°♉16'13	
retrograde	10085 Mar 31 12:11	3°♉16'17	
evening set	10085 Apr 05 02:45	1°♉22'56	
	10085 Apr 06 13:28	30°℞♈	
inferior conj	10085 Apr 10 10:13	25°♈02'24	2°44'01
minimum elong	10085 Apr 10 08:11	25°♈09'26	2°43'26
min. Earth dist.	10085 Apr 10 08:59	25°♈06'41	0.68584 AU
morning rise	10085 Apr 15 13:29	18°♈51'11	
direct	10085 Apr 20 08:41	16°♈48'50	
morning max el	10085 Apr 29 19:55	22°♈22'10	22°13'58
desc. node	10085 May 04 09:32	27°♈27'37	
	10085 May 06 10:42	0°♉	
	10085 May 27 07:11	0°♊	
morning set	10085 Jun 02 03:12	9°♊15'36	
max. Earth dist.	10085 Jun 07 09:48	17°♊57'35	1.41047 AU
	10085 Jun 14 09:17	0°♋	
superior conj	10085 Jun 15 04:18	1°♋24'27	-1°38'57
minimum elong	10085 Jun 15 10:29	1°♋51'59	1°38'41
evening rise	10085 Jun 25 13:25	20°♋27'57	
asc. node	10085 Jun 27 08:07	23°♋46'54	

	10085 Jun	30	17:32	0°♌	
evening max el	10085 Jul	11	14:39	16°♌05'57	18°17'16
retrograde	10085 Jul	18	21:11	19°♌45'50	
evening set	10085 Jul	21	02:36	19°♌25'58	
inferior conj	10085 Jul	28	10:38	14°♌45'37	0°52'00
minimum elong	10085 Jul	28	12:20	14°♌42'01	0°51'04
desc. node	10085 Jul	31	08:46	12°♌17'37	
min. Earth dist.	10085 Jul	31	19:23	11°♌56'07	0.58843 AU
morning rise	10085 Aug	04	18:41	9°♌11'38	
direct	10085 Aug	11	00:29	7°♌26'34	
morning max el	10085 Aug	25	09:39	15°♌12'53	27°25'15
	10085 Sep	06	09:13	0°♍	
asc. node	10085 Sep	23	08:14	29°♍46'56	
	10085 Sep	23	10:47	0°♎	
morning set	10085 Sep	25	11:41	4°♎14'11	
max. Earth dist.	10085 Oct	02	02:49	18°♎41'30	1.31486 AU
superior conj	10085 Oct	02	12:09	19°♎33'26	1°20'19
minimum elong	10085 Oct	02	10:02	19°♎21'36	1°20'08
	10085 Oct	07	05:25	0°♏	
evening rise	10085 Oct	09	06:09	4°♏23'19	
	10085 Oct	22	17:22	0°♐	
desc. node	10085 Oct	27	06:45	7°♐03'02	
evening max el	10085 Nov	07	09:37	20°♐30'07	26°24'41
retrograde	10085 Nov	21	07:46	27°♐36'01	
evening set	10085 Nov	27	22:06	25°♐49'38	
min. Earth dist.	10085 Dec	01	23:02	23°♐14'42	0.59018 AU
inferior conj	10085 Dec	05	03:11	20°♐50'19	-4°28'53
minimum elong	10085 Dec	05	11:03	20°♐35'22	4°26'21
morning rise	10085 Dec	13	02:34	16°♐17'56	
direct	10085 Dec	15	06:38	16°♐01'37	
asc. node	10085 Dec	20	08:08	17°♐36'03	
morning max el	10085 Dec	23	06:11	19°♐56'22	18°22'40
	10085 Dec	30	17:48	0°♑	
morning set	10086 Jan	08	02:41	15°♑14'48	
	10086 Jan	15	21:33	0°♒	
superior conj	10086 Jan	17	06:35	2°♒32'23	0°44'42
minimum elong	10086 Jan	17	09:28	2°♒45'34	0°44'39
desc. node	10086 Jan	23	05:52	13°♒12'36	
max. Earth dist.	10086 Jan	24	19:26	15°♒54'47	1.40725 AU
evening rise	10086 Jan	29	06:37	23°♒24'56	
	10086 Feb	02	08:16	0°♓	
	10086 Feb	22	22:29	0°♈	
evening max el	10086 Mar	04	15:27	11°♈24'57	23°28'10
retrograde	10086 Mar	15	07:06	17°♈42'33	
asc. node	10086 Mar	18	06:37	16°♈59'55	
evening set	10086 Mar	20	09:13	15°♈34'59	
min. Earth dist.	10086 Mar	25	05:45	9°♈53'30	0.68499 AU
inferior conj	10086 Mar	25	19:05	9°♈07'43	2°12'36
minimum elong	10086 Mar	25	16:52	9°♈15'18	2°11'56
morning rise	10086 Mar	31	00:30	3°♈02'28	
direct	10086 Apr	04	06:13	1°♈21'58	
morning max el	10086 Apr	12	13:03	6°♈06'40	20°52'07
desc. node	10086 Apr	21	06:24	16°♈38'26	
	10086 Apr	30	15:34	0°♉	
morning set	10086 May	12	14:43	18°♉10'50	
	10086 May	20	01:22	0°♊	
max. Earth dist.	10086 May	20	14:38	0°♊53'46	1.43055 AU
superior conj	10086 May	27	12:31	12°♊19'45	-2°02'40
minimum elong	10086 May	27	17:58	12°♊42'45	2°02'44
	10086 Jun	06	16:57	0°♋	
evening rise	10086 Jun	08	10:21	3°♋03'52	
asc. node	10086 Jun	14	05:08	13°♋16'21	
evening max el	10086 Jun	25	02:46	29°♋08'08	18°04'45
	10086 Jun	26	01:10	0°♌	

retrograde	10086 Jul	01	17:14	2°♌31'23	
evening set	10086 Jul	04	06:28	2°♌00'53	
	10086 Jul	07	14:12	30°℞♋	
inferior conj	10086 Jul	10	21:25	27°♋00'46	2°01'26
minimum elong	10086 Jul	11	00:14	26°♋53'51	2°00'13
min. Earth dist.	10086 Jul	14	01:04	23°♋57'21	0.61108 AU
morning rise	10086 Jul	17	15:27	21°♋02'09	
desc. node	10086 Jul	18	05:55	20°♋39'02	
direct	10086 Jul	24	06:38	18°♋48'27	
morning max el	10086 Aug	07	12:59	26°♋48'11	27°55'21
	10086 Aug	10	13:21	0°♌	
	10086 Aug	31	00:29	0°♍	
morning set	10086 Sep	09	14:59	18°♍28'31	
asc. node	10086 Sep	10	05:06	19°♍41'43	
	10086 Sep	15	00:43	0°♎	
max. Earth dist.	10086 Sep	15	10:52	0°♎55'29	1.31719 AU
superior conj	10086 Sep	16	22:48	4°♎13'09	1°02'59
minimum elong	10086 Sep	16	20:35	4°♎00'56	1°02'36
evening rise	10086 Sep	23	16:37	19°♎01'34	
	10086 Sep	28	23:56	0°♏	
desc. node	10086 Oct	14	03:56	24°♏45'38	
	10086 Oct	18	17:10	0°♐	
evening max el	10086 Oct	20	01:46	1°♐20'48	25°04'41
retrograde	10086 Nov	02	22:23	8°♐18'57	
evening set	10086 Nov	08	14:53	7°♐05'45	
min. Earth dist.	10086 Nov	13	13:35	4°♐23'50	0.57040 AU
inferior conj	10086 Nov	16	08:34	2°♐33'15	-5°24'02
minimum elong	10086 Nov	16	14:25	2°♐23'33	5°22'51
	10086 Nov	20	12:34	30°℞♏	
morning rise	10086 Nov	24	16:14	28°♏23'07	
direct	10086 Nov	27	01:39	28°♏06'39	
	10086 Dec	03	02:46	0°♐	
morning max el	10086 Dec	06	06:57	2°♐31'40	19°11'47
asc. node	10086 Dec	07	05:10	3°♐27'31	
morning set	10086 Dec	23	03:13	29°♐38'54	
	10086 Dec	23	07:28	0°♑	
superior conj	10086 Dec	31	08:19	15°♑53'20	1°10'12
minimum elong	10086 Dec	31	11:24	16°♑08'15	1°10'15
max. Earth dist.	10087 Jan	07	01:20	28°♑26'49	1.38531 AU
	10087 Jan	07	22:03	0°♒	
desc. node	10087 Jan	10	02:46	3°♒53'07	
evening rise	10087 Jan	10	19:59	5°♒08'01	
	10087 Jan	26	09:23	0°♓	
evening max el	10087 Feb	15	04:59	25°♓13'45	24°47'05
	10087 Feb	20	23:19	0°♈	
retrograde	10087 Feb	26	22:11	2°♈03'34	
	10087 Mar	04	04:32	30°℞♓	
evening set	10087 Mar	04	12:26	29°♓43'43	
asc. node	10087 Mar	05	03:50	29°♓09'09	
min. Earth dist.	10087 Mar	09	01:08	24°♓37'04	0.68003 AU
inferior conj	10087 Mar	10	02:11	23°♓14'03	1°32'03
minimum elong	10087 Mar	10	00:16	23°♓20'23	1°31'28
morning rise	10087 Mar	15	12:20	17°♓16'07	
direct	10087 Mar	19	05:25	15°♓56'59	
morning max el	10087 Mar	26	13:45	20°♓02'33	19°42'45
	10087 Apr	03	16:44	0°♈	
desc. node	10087 Apr	08	03:13	6°♈20'06	
greatest brilliancy	10087 Apr	08	08:02	6°♈37'43	-0.6m
morning set	10087 Apr	21	13:12	26°♈35'19	
	10087 Apr	23	18:16	0°♉	
max. Earth dist.	10087 May	03	02:20	14°♉36'32	1.44583 AU
superior conj	10087 May	07	20:17	22°♉11'55	-2°12'52
minimum elong	10087 May	07	20:44	22°♉13'43	2°13'11
	10087 May	12	15:21	0°♊	

evening rise	10087 May 21 11:35	14°♊45'50	
	10087 May 30 14:08	0°♋	
asc. node	10087 Jun 01 02:12	2°♋23'17	
evening max el	10087 Jun 08 16:33	12°♋29'42	18°11'09
retrograde	10087 Jun 15 01:19	15°♋50'57	
evening set	10087 Jun 17 22:25	15°♋07'18	
inferior conj	10087 Jun 24 00:07	9°♋48'56	2°46'17
minimum elong	10087 Jun 24 02:32	9°♋42'16	2°45'21
min. Earth dist.	10087 Jun 26 15:45	6°♋54'30	0.63303 AU
morning rise	10087 Jun 30 05:03	3°♋36'13	
desc. node	10087 Jul 05 03:02	1°♋12'35	
direct	10087 Jul 06 22:24	1°♋01'50	
morning max el	10087 Jul 20 21:04	9°♋04'38	27°47'22
	10087 Aug 06 02:48	0°♌	
	10087 Aug 23 07:13	0°♍	
morning set	10087 Aug 24 11:24	2°♍20'11	
asc. node	10087 Aug 28 01:58	9°♍44'04	
max. Earth dist.	10087 Aug 29 13:32	12°♍51'43	1.32448 AU
superior conj	10087 Sep 01 06:24	18°♍40'02	0°40'44
minimum elong	10087 Sep 01 04:38	18°♍30'27	0°40'17
	10087 Sep 06 11:18	0°♎	
evening rise	10087 Sep 08 04:09	3°♎40'03	
	10087 Sep 22 06:08	0°♏	
desc. node	10087 Oct 01 01:10	11°♏07'23	
evening max el	10087 Oct 01 12:52	11°♏36'09	23°26'53
retrograde	10087 Oct 15 00:06	18°♏19'13	
evening set	10087 Oct 19 07:38	17°♏38'43	
min. Earth dist.	10087 Oct 25 22:47	14°♏31'34	0.55501 AU
inferior conj	10087 Oct 27 17:59	13°♏28'03	-5°43'28
minimum elong	10087 Oct 27 17:05	13°♏29'22	5°43'11
morning rise	10087 Nov 05 04:23	9°♏35'31	
direct	10087 Nov 08 01:43	9°♏15'10	
morning max el	10087 Nov 18 19:02	14°♏18'57	20°23'39
asc. node	10087 Nov 24 02:10	20°♏29'36	
	10087 Nov 30 01:19	0°♐	
morning set	10087 Dec 07 09:47	14°♐18'23	
superior conj	10087 Dec 14 23:06	29°♐50'45	1°27'30
minimum elong	10087 Dec 15 01:26	0°♑02'31	1°27'44
	10087 Dec 15 00:56	0°♑	
max. Earth dist.	10087 Dec 20 08:47	10°♑30'30	1.36406 AU
evening rise	10087 Dec 24 05:03	17°♑42'34	
desc. node	10087 Dec 27 23:45	24°♑27'33	
	10087 Dec 31 05:34	0°♒	
	10088 Jan 20 16:34	0°♓	
evening max el	10088 Jan 28 18:28	9°♓03'32	25°57'38
retrograde	10088 Feb 10 08:23	16°♓14'04	
evening set	10088 Feb 16 10:45	13°♓44'52	
asc. node	10088 Feb 20 01:01	10°♓01'15	
min. Earth dist.	10088 Feb 20 16:51	9°♓12'59	0.67113 AU
inferior conj	10088 Feb 22 05:37	7°♓17'59	0°42'34
minimum elong	10088 Feb 22 04:34	7°♓21'18	0°42'20
morning rise	10088 Feb 27 22:58	1°♓29'15	
direct	10088 Mar 02 04:42	0°♓29'22	
morning max el	10088 Mar 08 22:03	4°♓08'12	18°48'48
desc. node	10088 Mar 25 00:03	26°♓24'43	
	10088 Mar 27 07:32	0°♈	
morning set	10088 Mar 30 22:29	5°♈38'44	
max. Earth dist.	10088 Apr 14 19:38	28°♈53'16	1.45464 AU
	10088 Apr 15 12:40	0°♉	
superior conj	10088 Apr 16 08:05	1°♉16'10	-2°03'51
minimum elong	10088 Apr 16 01:16	0°♉49'24	2°03'41
evening rise	10088 May 01 13:26	25°♉28'36	
	10088 May 04 08:42	0°♊	
greatest brilliancy	10088 May 06 17:16	3°♊48'06	-0.9m
asc. node	10088 May 17 23:18	21°♊00'13	
evening max el	10088 May 22 04:56	26°♊02'59	18°35'37
retrograde	10088 May 28 17:26	29°♊35'59	
evening set	10088 May 31 22:23	28°♊37'45	
inferior conj	10088 Jun 06 14:43	23°♊02'32	3°10'46
minimum elong	10088 Jun 06 16:03	22°♊58'30	3°10'11
min. Earth dist.	10088 Jun 08 15:30	20°♊35'00	0.65219 AU
morning rise	10088 Jun 12 08:52	16°♊43'33	
direct	10088 Jun 18 21:57	13°♊59'38	
desc. node	10088 Jun 21 00:07	14°♊14'25	
morning max el	10088 Jul 02 07:28	21°♊53'34	27°05'42
	10088 Jul 09 09:18	0°♋	
	10088 Jul 29 08:03	0°♌	
morning set	10088 Aug 06 22:07	15°♌41'35	
max. Earth dist.	10088 Aug 11 07:29	24°♌23'41	1.33678 AU
asc. node	10088 Aug 13 22:50	29°♌49'43	
	10088 Aug 14 00:48	0°♍	
superior conj	10088 Aug 15 08:48	2°♍47'40	0°14'01
minimum elong	10088 Aug 15 08:05	2°♍43'55	0°13'38
behind sun begin	10088 Aug 15 05:06	2°♍28'12	
behind sun end	10088 Aug 15 11:05	2°♍59'40	
evening rise	10088 Aug 22 14:51	18°♍13'01	
	10088 Aug 28 10:12	0°♎	
evening max el	10088 Sep 12 02:48	21°♎47'56	21°48'16
desc. node	10088 Sep 16 22:24	25°♎39'24	
retrograde	10088 Sep 24 14:38	28°♎00'39	
evening set	10088 Sep 27 12:00	27°♎41'51	
inferior conj	10088 Oct 06 12:55	23°♎43'56	-5°08'51
minimum elong	10088 Oct 06 04:38	23°♎55'31	5°07'09
min. Earth dist.	10088 Oct 06 06:05	23°♎53'30	0.54695 AU
morning rise	10088 Oct 14 22:32	19°♎56'03	
direct	10088 Oct 18 12:13	19°♎28'11	
morning max el	10088 Oct 30 17:43	25°♎15'36	21°56'29
	10088 Nov 04 02:05	0°♏	
asc. node	10088 Nov 09 23:07	8°♏26'19	
morning set	10088 Nov 20 19:51	29°♏05'09	
	10088 Nov 21 06:17	0°♐	
superior conj	10088 Nov 27 23:02	14°♐12'40	1°37'14
minimum elong	10088 Nov 28 00:11	14°♐18'44	1°37'36
max. Earth dist.	10088 Dec 01 22:03	22°♐24'01	1.34551 AU
	10088 Dec 05 18:03	0°♑	
evening rise	10088 Dec 06 06:02	0°♑57'44	
desc. node	10088 Dec 13 20:45	14°♑50'30	
	10088 Dec 23 06:30	0°♒	
evening max el	10089 Jan 10 07:58	22°♒45'27	26°52'36
	10089 Jan 22 04:05	0°♓	
retrograde	10089 Jan 23 12:52	0°♓06'02	
	10089 Jan 24 20:53	30°℞♒	
evening set	10089 Jan 30 02:17	27°♒31'54	
min. Earth dist.	10089 Feb 03 02:34	23°♒34'21	0.65841 AU
inferior conj	10089 Feb 05 03:10	21°♒13'39	-0°15'44
minimum elong	10089 Feb 05 03:37	21°♒12'23	0°15'16
transit middle	10089 Feb 05 03:37	21°♒12'23	0°15'16
transit begin	10089 Feb 05 02:42	21°♒15'01	
transit end	10089 Feb 05 04:31	21°♒09'45	
asc. node	10089 Feb 05 22:12	20°♒18'54	
morning rise	10089 Feb 11 06:07	15°♒36'30	
direct	10089 Feb 14 01:57	14°♒52'45	
morning max el	10089 Feb 20 12:08	18°♒17'08	18°11'24
	10089 Mar 01 08:52	0°♓	
morning set	10089 Mar 11 10:44	16°♓04'30	
desc. node	10089 Mar 11 20:51	16°♓45'22	
	10089 Mar 20 03:08	0°♈	
superior conj	10089 Mar 26 14:21	10°♈12'38	-1°35'23

minimum elong	10089 Mar 26 04:51	9°♈35'21	1°34'27
max. Earth dist.	10089 Mar 28 15:36	13°♈25'37	1.45600 AU
	10089 Apr 08 06:42	0°♉	
evening rise	10089 Apr 11 16:35	5°♉18'34	
greatest brilliancy	10089 Apr 23 12:45	23°♉35'11	-0.7m
	10089 Apr 27 21:01	0°♊	
asc. node	10089 May 04 20:24	8°♊57'33	
evening max el	10089 May 05 13:31	9°♊42'05	19°17'14
retrograde	10089 May 12 14:08	13°♊39'25	
evening set	10089 May 16 03:20	12°♊25'54	
inferior conj	10089 May 21 13:45	6°♊35'28	3°18'58
minimum elong	10089 May 21 13:52	6°♊35'06	3°18'34
min. Earth dist.	10089 May 22 23:26	4°♊45'57	0.66737 AU
morning rise	10089 May 26 23:58	0°♊15'13	
	10089 May 27 06:58	30°℞♉	
direct	10089 Jun 02 04:03	27°♉32'50	
desc. node	10089 Jun 07 21:08	29°♉23'13	
	10089 Jun 08 20:17	0°♊	
morning max el	10089 Jun 14 18:02	5°♊04'05	25°58'13
	10089 Jul 03 20:58	0°♋	
morning set	10089 Jul 20 19:33	28°♋23'34	
	10089 Jul 21 16:22	0°♌	
max. Earth dist.	10089 Jul 24 15:02	5°♌34'29	1.35384 AU
superior conj	10089 Jul 30 03:26	16°♌29'23	-0°16'27
minimum elong	10089 Jul 30 04:25	16°♌34'22	0°16'34
asc. node	10089 Jul 31 19:43	19°♌54'53	
	10089 Aug 05 16:42	0°♍	
evening rise	10089 Aug 06 22:38	2°♍34'36	
	10089 Aug 22 20:48	0°♎	
evening max el	10089 Aug 25 03:51	2°♎30'15	20°23'00
desc. node	10089 Sep 03 19:37	7°♎52'23	
retrograde	10089 Sep 05 03:09	7°♎56'54	
evening set	10089 Sep 07 03:35	7°♎46'38	
inferior conj	10089 Sep 16 06:12	3°♎49'11	-3°41'19
minimum elong	10089 Sep 15 20:52	4°♎02'49	3°38'19
min. Earth dist.	10089 Sep 17 14:54	3°♎01'24	0.54808 AU
	10089 Sep 23 18:53	30°℞♍	
morning rise	10089 Sep 24 13:32	29°♍44'49	
direct	10089 Sep 28 21:13	29°♍04'42	
	10089 Oct 03 20:34	0°♎	
morning max el	10089 Oct 12 07:22	5°♎35'42	23°42'16
asc. node	10089 Oct 27 20:02	27°♎04'50	
	10089 Oct 29 10:07	0°♏	
morning set	10089 Nov 05 07:30	13°♏53'56	
superior conj	10089 Nov 12 05:09	28°♏50'44	1°40'10
minimum elong	10089 Nov 12 05:05	28°♏50'24	1°40'32
	10089 Nov 12 17:58	0°♐	
max. Earth dist.	10089 Nov 14 19:13	4°♐23'55	1.33095 AU
evening rise	10089 Nov 19 19:19	14°♐44'49	
	10089 Nov 27 21:13	0°♑	
desc. node	10089 Nov 30 17:47	4°♑56'27	
	10089 Dec 18 02:45	0°♒	
evening max el	10089 Dec 23 20:32	6°♒09'07	27°24'49
retrograde	10090 Jan 06 11:08	13°♒31'10	
evening set	10090 Jan 13 08:46	10°♒58'37	
min. Earth dist.	10090 Jan 17 04:15	7°♒33'20	0.64220 AU
inferior conj	10090 Jan 19 16:23	4°♒55'15	-1°22'10
minimum elong	10090 Jan 19 18:57	4°♒48'29	1°20'43
asc. node	10090 Jan 23 19:21	1°♒01'20	
	10090 Jan 25 08:16	30°℞♑	
morning rise	10090 Jan 26 06:58	29°♑32'22	
direct	10090 Jan 28 18:41	29°♑01'03	
	10090 Feb 01 04:45	0°♒	
morning max el	10090 Feb 04 05:20	2°♒22'00	17°50'59
morning set	10090 Feb 21 03:28	27°♒53'27	
	10090 Feb 22 09:25	0°♓	
desc. node	10090 Feb 26 17:38	7°♓17'08	
superior conj	10090 Mar 06 09:36	19°♓50'52	-0°54'46
minimum elong	10090 Mar 06 03:34	19°♓26'34	0°53'49
max. Earth dist.	10090 Mar 11 10:54	27°♓54'49	1.44992 AU
	10090 Mar 12 18:39	0°♈	
evening rise	10090 Mar 22 05:32	14°♈40'28	
	10090 Apr 01 08:17	0°♉	
evening max el	10090 Apr 18 16:50	23°♉23'20	20°14'20
asc. node	10090 Apr 21 17:33	26°♉03'00	
retrograde	10090 Apr 26 12:46	27°♉55'17	
evening set	10090 Apr 30 10:55	26°♉26'18	
inferior conj	10090 May 05 18:22	20°♉22'23	3°13'58
minimum elong	10090 May 05 17:25	20°♉25'38	3°13'35
min. Earth dist.	10090 May 06 13:44	19°♉16'22	0.67812 AU
morning rise	10090 May 10 23:38	14°♉04'04	
direct	10090 May 16 15:56	11°♉32'22	
desc. node	10090 May 25 18:06	16°♉08'46	
morning max el	10090 May 28 03:40	18°♉25'48	24°34'25
	10090 Jun 06 21:22	0°♊	
	10090 Jun 26 22:45	0°♋	
morning set	10090 Jul 02 23:00	10°♋13'32	
max. Earth dist.	10090 Jul 06 13:49	16°♋40'45	1.37478 AU
superior conj	10090 Jul 13 11:04	29°♋36'33	-0°49'10
minimum elong	10090 Jul 13 14:15	29°♋51'59	0°49'00
	10090 Jul 13 15:54	0°♌	
asc. node	10090 Jul 18 16:36	9°♌55'12	
evening rise	10090 Jul 22 01:04	16°♌37'25	
	10090 Jul 29 00:27	0°♍	
evening max el	10090 Aug 07 18:35	13°♍57'50	19°17'38
retrograde	10090 Aug 17 01:24	18°♍34'22	
evening set	10090 Aug 18 21:37	18°♍24'14	
desc. node	10090 Aug 21 16:51	17°♍33'19	
inferior conj	10090 Aug 27 11:48	14°♍15'12	-1°47'42
minimum elong	10090 Aug 27 07:01	14°♍23'06	1°46'00
min. Earth dist.	10090 Aug 30 03:22	12°♍30'34	0.55850 AU
morning rise	10090 Sep 04 13:38	9°♍37'21	
direct	10090 Sep 09 16:55	8°♍36'57	
morning max el	10090 Sep 23 19:13	15°♍45'09	25°26'11
	10090 Oct 05 06:45	0°♎	
asc. node	10090 Oct 14 16:55	16°♎13'55	
morning set	10090 Oct 20 19:01	28°♎39'00	
	10090 Oct 21 10:07	0°♏	
superior conj	10090 Oct 27 15:00	13°♏36'53	1°36'55
minimum elong	10090 Oct 27 13:53	13°♏30'44	1°37'08
max. Earth dist.	10090 Oct 28 23:24	16°♏35'04	1.32093 AU
evening rise	10090 Nov 03 17:42	28°♏55'01	
	10090 Nov 04 06:17	0°♐	
desc. node	10090 Nov 17 14:53	24°♐37'49	
	10090 Nov 21 00:51	0°♑	
evening max el	10090 Dec 06 06:25	19°♑02'40	27°28'01
retrograde	10090 Dec 20 02:24	26°♑20'09	
evening set	10090 Dec 27 03:20	23°♑58'01	
min. Earth dist.	10090 Dec 30 20:17	21°♑00'08	0.62309 AU
inferior conj	10091 Jan 02 18:19	18°♑15'50	-2°34'44
minimum elong	10091 Jan 02 23:25	18°♑03'48	2°32'20
morning rise	10091 Jan 09 21:55	13°♑10'07	
asc. node	10091 Jan 10 16:28	12°♑57'17	
direct	10091 Jan 12 03:51	12°♑47'26	
morning max el	10091 Jan 18 22:32	16°♑14'35	17°48'13
	10091 Jan 28 15:11	0°♒	
morning set	10091 Feb 03 19:11	10°♒48'11	
desc. node	10091 Feb 13 14:27	27°♒56'11	
	10091 Feb 14 19:38	0°♓	

superior conj	10091 Feb 15 04:37	0°♓37'55	-0°11'57
minimum elong	10091 Feb 15 03:29	0°♓33'06	0°11'31
behind sun begin	10091 Feb 14 21:15	0°♓06'47	
behind sun end	10091 Feb 15 09:43	0°♓59'22	
max. Earth dist.	10091 Feb 22 03:05	12°♓04'43	1.43718 AU
evening rise	10091 Mar 01 19:14	24°♓12'56	
	10091 Mar 05 13:32	0°♈	
	10091 Mar 26 12:00	0°♉	
evening max el	10091 Apr 01 14:39	7°♉06'14	21°24'01
asc. node	10091 Apr 08 14:44	12°♉02'06	
retrograde	10091 Apr 10 11:09	12°♉19'02	
evening set	10091 Apr 14 19:21	10°♉34'38	
inferior conj	10091 Apr 20 02:14	4°♉19'31	2°57'51
minimum elong	10091 Apr 20 00:30	4°♉25'32	2°57'20
min. Earth dist.	10091 Apr 20 08:21	3°♉58'15	0.68432 AU
	10091 Apr 23 09:01	30°℞♈	
morning rise	10091 Apr 25 05:26	28°♈05'09	
direct	10091 Apr 30 08:31	25°♈50'43	
	10091 May 08 13:22	0°♉	
morning max el	10091 May 10 13:34	1°♉54'31	23°04'35
desc. node	10091 May 12 14:59	4°♉05'20	
	10091 May 31 20:46	0°♊	
morning set	10091 Jun 14 03:18	20°♊58'44	
max. Earth dist.	10091 Jun 18 10:16	28°♊14'36	1.39762 AU
	10091 Jun 19 10:37	0°♋	
superior conj	10091 Jun 26 03:52	12°♋00'51	-1°21'44
minimum elong	10091 Jun 26 09:14	12°♋25'33	1°21'25
evening rise	10091 Jul 05 19:11	0°♌14'17	
asc. node	10091 Jul 05 13:32	29°♋47'15	
	10091 Jul 05 16:12	0°♌	
evening max el	10091 Jul 21 20:45	26°♌09'36	18°33'23
	10091 Jul 28 12:35	0°♍	
retrograde	10091 Jul 29 17:32	0°♍05'27	
	10091 Jul 30 22:53	30°℞♌	
evening set	10091 Jul 31 18:50	29°♌50'14	
inferior conj	10091 Aug 08 13:59	25°♌22'02	0°00'02
minimum elong	10091 Aug 08 13:58	25°♌22'03	0°00'14
transit middle	10091 Aug 08 13:58	25°♌22'03	0°00'14
transit begin	10091 Aug 08 10:22	25°♌29'00	
transit end	10091 Aug 08 17:35	25°♌15'05	
desc. node	10091 Aug 08 14:02	25°♌21'56	
min. Earth dist.	10091 Aug 11 20:56	22°♌50'47	0.57628 AU
morning rise	10091 Aug 16 05:35	20°♌07'08	
direct	10091 Aug 22 03:20	18°♌39'03	
morning max el	10091 Sep 05 11:28	26°♌13'51	26°50'46
	10091 Sep 09 01:06	0°♍	
	10091 Sep 28 15:13	0°♎	
asc. node	10091 Oct 01 13:46	5°♎45'35	
morning set	10091 Oct 05 04:43	13°♎15'48	
superior conj	10091 Oct 12 02:37	28°♎24'52	1°27'57
minimum elong	10091 Oct 12 00:44	28°♎14'28	1°27'55
max. Earth dist.	10091 Oct 12 07:59	28°♎54'44	1.31569 AU
	10091 Oct 12 19:43	0°♏	
evening rise	10091 Oct 18 22:31	13°♏21'07	
	10091 Oct 27 08:04	0°♐	
desc. node	10091 Nov 04 12:01	13°♐44'28	
	10091 Nov 17 04:53	0°♑	
evening max el	10091 Nov 18 11:09	1°♑13'47	26°57'42
retrograde	10091 Dec 02 09:16	8°♑23'28	
evening set	10091 Dec 09 06:09	6°♑21'42	
min. Earth dist.	10091 Dec 13 01:41	3°♑42'07	0.60223 AU
inferior conj	10091 Dec 16 05:32	1°♑06'03	-3°48'53
minimum elong	10091 Dec 16 12:52	0°♑50'54	3°46'05
	10091 Dec 17 14:00	30°℞♐	
morning rise	10091 Dec 23 22:12	26°♐20'26	
direct	10091 Dec 26 01:40	26°♐02'43	
asc. node	10091 Dec 28 13:34	26°♐27'47	
morning max el	10092 Jan 02 12:16	29°♐45'05	18°04'17
	10092 Jan 02 18:16	0°♑	
morning set	10092 Jan 18 03:29	24°♑29'05	
	10092 Jan 21 02:37	0°♒	
superior conj	10092 Jan 28 00:14	12°♒34'11	0°26'11
minimum elong	10092 Jan 28 02:15	12°♒43'11	0°26'13
desc. node	10092 Jan 31 11:18	18°♒38'30	
max. Earth dist.	10092 Feb 04 15:10	25°♒43'06	1.41923 AU
	10092 Feb 07 05:16	0°♓	
evening rise	10092 Feb 09 23:19	4°♓27'41	
	10092 Feb 26 20:43	0°♈	
evening max el	10092 Mar 14 07:53	20°♈50'58	22°41'54
retrograde	10092 Mar 24 07:37	26°♈45'26	
asc. node	10092 Mar 25 11:56	26°♈38'37	
evening set	10092 Mar 29 02:58	24°♈46'05	
inferior conj	10092 Apr 03 11:16	18°♈22'27	2°31'49
minimum elong	10092 Apr 03 09:07	18°♈29'55	2°31'11
min. Earth dist.	10092 Apr 03 04:54	18°♈44'33	0.68606 AU
morning rise	10092 Apr 08 15:08	12°♈13'34	
direct	10092 Apr 13 04:39	10°♈20'10	
morning max el	10092 Apr 22 03:01	15°♈31'39	21°37'47
desc. node	10092 Apr 28 11:52	22°♈52'53	
	10092 May 03 19:47	0°♉	
	10092 May 23 21:13	0°♊	
morning set	10092 May 24 04:52	0°♊30'20	
max. Earth dist.	10092 May 30 11:24	10°♊40'23	1.41956 AU
superior conj	10092 Jun 07 01:14	23°♊31'14	-1°50'15
minimum elong	10092 Jun 07 07:31	23°♊58'38	1°50'05
	10092 Jun 10 17:33	0°♋	
evening rise	10092 Jun 18 01:07	13°♋15'15	
asc. node	10092 Jun 21 10:32	19°♋26'18	
	10092 Jun 27 13:15	0°♌	
evening max el	10092 Jul 04 06:23	8°♌56'10	18°09'35
retrograde	10092 Jul 11 04:30	12°♌26'46	
evening set	10092 Jul 13 13:23	12°♌02'35	
inferior conj	10092 Jul 20 13:41	7°♌13'32	1°24'42
minimum elong	10092 Jul 20 16:07	7°♌08'03	1°23'32
min. Earth dist.	10092 Jul 23 21:25	4°♌15'24	0.59806 AU
desc. node	10092 Jul 25 11:11	2°♌58'39	
morning rise	10092 Jul 27 15:51	1°♌28'04	
	10092 Jul 30 20:51	30°℞♋	
direct	10092 Aug 03 02:41	29°♋30'16	
	10092 Aug 06 10:46	0°♌	
morning max el	10092 Aug 17 10:51	7°♌22'31	27°42'50
	10092 Sep 03 13:33	0°♍	
asc. node	10092 Sep 17 10:38	25°♍33'37	
morning set	10092 Sep 18 10:57	27°♍40'00	
	10092 Sep 19 13:30	0°♎	
max. Earth dist.	10092 Sep 24 17:31	11°♎14'55	1.31527 AU
superior conj	10092 Sep 25 14:08	13°♎09'18	1°13'35
minimum elong	10092 Sep 25 11:55	12°♎56'56	1°13'19
evening rise	10092 Oct 02 07:33	27°♎57'02	
	10092 Oct 03 06:38	0°♏	
	10092 Oct 19 22:28	0°♐	
desc. node	10092 Oct 21 09:11	2°♐03'03	
evening max el	10092 Oct 30 08:12	12°♐33'57	25°53'54
retrograde	10092 Nov 13 05:54	19°♐35'58	
evening set	10092 Nov 19 12:37	18°♐03'16	
min. Earth dist.	10092 Nov 23 20:51	15°♐27'45	0.58142 AU
inferior conj	10092 Nov 26 22:36	13°♐16'10	-4°55'17
minimum elong	10092 Nov 27 06:10	13°♐02'37	4°53'15
morning rise	10092 Dec 05 02:05	8°♐53'07	

direct	10092 Dec 07 07:49	8°♐37'02	
asc. node	10092 Dec 14 10:37	11°♐31'29	
morning max el	10092 Dec 15 18:49	12°♐43'27	18°40'51
	10092 Dec 27 10:05	0°♑	
morning set	10092 Dec 31 23:16	8°♑41'06	
superior conj	10093 Jan 09 16:28	25°♑28'34	0°56'32
minimum elong	10093 Jan 09 19:36	25°♑43'15	0°56'30
	10093 Jan 12 02:56	0°♒	
max. Earth dist.	10093 Jan 16 23:10	8°♒41'15	1.39803 AU
desc. node	10093 Jan 17 08:12	9°♒20'48	
evening rise	10093 Jan 21 00:21	15°♒38'24	
	10093 Jan 29 21:59	0°♓	
	10093 Feb 20 15:23	0°♈	
evening max el	10093 Feb 24 22:14	4°♈38'27	24°02'13
retrograde	10093 Mar 08 00:53	11°♈10'12	
asc. node	10093 Mar 12 09:09	9°♈41'47	
evening set	10093 Mar 13 08:14	8°♈57'02	
min. Earth dist.	10093 Mar 18 01:16	3°♈30'37	0.68349 AU
inferior conj	10093 Mar 18 19:38	2°♈28'25	1°56'31
minimum elong	10093 Mar 18 17:29	2°♈35'41	1°55'51
	10093 Mar 20 16:31	30°♓	
morning rise	10093 Mar 24 02:46	26°♓26'16	
direct	10093 Mar 28 03:04	24°♓54'58	
morning max el	10093 Apr 04 23:16	29°♓20'58	20°20'49
	10093 Apr 05 14:40	0°♈	
desc. node	10093 Apr 15 08:43	12°♈17'45	
	10093 Apr 27 09:53	0°♉	
morning set	10093 May 03 08:25	9°♉05'09	
max. Earth dist.	10093 May 12 19:49	23°♉59'47	1.43786 AU
	10093 May 16 12:51	0°♊	
superior conj	10093 May 18 23:03	3°♊58'59	-2°09'02
minimum elong	10093 May 19 02:56	4°♊15'02	2°09'16
evening rise	10093 May 31 14:14	25°♊29'20	
	10093 Jun 03 04:27	0°♋	
asc. node	10093 Jun 08 07:34	8°♋46'43	
evening max el	10093 Jun 17 19:35	22°♋07'10	18°05'10
retrograde	10093 Jun 24 06:23	25°♋27'57	
evening set	10093 Jun 26 23:00	24°♋52'00	
inferior conj	10093 Jul 03 07:46	19°♋43'34	2°23'16
minimum elong	10093 Jul 03 10:33	19°♋36'23	2°22'08
min. Earth dist.	10093 Jul 06 06:42	16°♋41'42	0.62065 AU
morning rise	10093 Jul 09 20:01	13°♋37'46	
desc. node	10093 Jul 12 08:21	12°♋09'59	
direct	10093 Jul 16 12:51	11°♋14'26	
morning max el	10093 Jul 30 16:37	19°♋16'16	27°56'35
	10093 Aug 08 19:06	0°♌	
	10093 Aug 27 11:27	0°♍	
morning set	10093 Sep 02 11:36	11°♍45'14	
asc. node	10093 Sep 04 07:28	15°♍31'54	
max. Earth dist.	10093 Sep 07 23:57	23°♍23'26	1.31970 AU
superior conj	10093 Sep 09 23:41	27°♍43'47	0°54'07
minimum elong	10093 Sep 09 21:36	27°♍32'17	0°53'42
	10093 Sep 11 00:29	0°♎	
evening rise	10093 Sep 16 18:42	12°♎35'51	
	10093 Sep 25 11:15	0°♏	
desc. node	10093 Oct 08 06:24	19°♏14'09	
evening max el	10093 Oct 11 21:20	23°♏05'30	24°24'13
retrograde	10093 Oct 25 14:54	29°♏58'44	
evening set	10093 Oct 30 18:46	28°♏59'49	
min. Earth dist.	10093 Nov 05 08:16	26°♏09'33	0.56314 AU
inferior conj	10093 Nov 07 19:10	24°♏37'35	-5°37'56
minimum elong	10093 Nov 07 22:41	24°♏32'05	5°37'20
morning rise	10093 Nov 16 04:43	20°♏36'20	
direct	10093 Nov 18 18:37	20°♏18'37	
morning max el	10093 Nov 28 14:28	24°♏58'39	19°39'41
asc. node	10093 Dec 01 07:38	27°♏54'25	
	10093 Dec 02 23:03	0°♐	
morning set	10093 Dec 16 02:40	23°♐12'15	
	10093 Dec 19 11:13	0°♑	
superior conj	10093 Dec 24 00:16	9°♑06'11	1°18'30
minimum elong	10093 Dec 24 03:06	9°♑20'12	1°18'37
max. Earth dist.	10093 Dec 30 05:09	20°♑58'50	1.37601 AU
evening rise	10094 Jan 02 22:25	27°♑43'26	
desc. node	10094 Jan 04 05:09	29°♑58'46	
	10094 Jan 04 05:26	0°♒	
	10094 Jan 23 08:23	0°♓	
evening max el	10094 Feb 07 11:28	18°♓27'24	25°18'28
retrograde	10094 Feb 19 14:02	25°♓27'40	
evening set	10094 Feb 25 09:37	23°♓03'03	
asc. node	10094 Feb 27 06:21	21°♓14'33	
min. Earth dist.	10094 Mar 01 19:16	18°♓11'30	0.67673 AU
inferior conj	10094 Mar 03 01:24	16°♓33'52	1°12'11
minimum elong	10094 Mar 02 23:47	16°♓39'07	1°11'42
morning rise	10094 Mar 08 14:21	10°♓39'53	
direct	10094 Mar 12 02:24	9°♓29'26	
morning max el	10094 Mar 19 03:27	13°♓21'59	19°17'53
	10094 Mar 31 18:47	0°♈	
greatest brilliancy	10094 Apr 01 00:25	0°♈20'58	-0.7m
desc. node	10094 Apr 02 05:34	2°♈09'58	
morning set	10094 Apr 12 08:43	17°♈38'43	
	10094 Apr 20 07:53	0°♉	
max. Earth dist.	10094 Apr 25 10:20	7°♉59'41	1.45042 AU
superior conj	10094 Apr 28 21:13	13°♉27'30	-2°11'34
minimum elong	10094 Apr 28 18:30	13°♉16'40	2°11'48
	10094 May 09 03:09	0°♊	
evening rise	10094 May 13 05:55	6°♊47'04	
asc. node	10094 May 26 04:38	27°♊42'09	
	10094 May 27 18:59	0°♋	
evening max el	10094 Jun 01 09:03	5°♋34'28	18°19'20
retrograde	10094 Jun 07 18:30	8°♋59'30	
evening set	10094 Jun 10 18:48	8°♋09'54	
inferior conj	10094 Jun 16 16:04	2°♋44'04	2°58'53
minimum elong	10094 Jun 16 18:03	2°♋38'19	2°58'07
min. Earth dist.	10094 Jun 19 01:31	29°♊59'09	0.64156 AU
	10094 Jun 19 01:13	30°♊	
morning rise	10094 Jun 22 16:03	26°♊27'34	
direct	10094 Jun 29 08:06	23°♊47'46	
desc. node	10094 Jun 29 05:27	23°♊47'48	
	10094 Jul 11 05:03	0°♋	
morning max el	10094 Jul 13 02:17	1°♋49'07	27°33'22
	10094 Aug 03 00:25	0°♌	
morning set	10094 Aug 17 04:17	25°♌25'19	
	10094 Aug 19 11:08	0°♍	
max. Earth dist.	10094 Aug 21 23:22	5°♍10'16	1.32910 AU
asc. node	10094 Aug 22 04:20	5°♍36'09	
superior conj	10094 Aug 25 05:20	12°♍03'04	0°29'54
minimum elong	10094 Aug 25 03:56	11°♍55'34	0°29'28
evening rise	10094 Sep 01 06:06	27°♍12'26	
	10094 Sep 02 13:47	0°♎	
	10094 Sep 20 08:08	0°♏	
evening max el	10094 Sep 23 08:14	3°♏13'44	22°43'57
desc. node	10094 Sep 25 03:36	4°♏52'44	
retrograde	10094 Oct 06 11:48	9°♏46'53	
evening set	10094 Oct 10 03:49	9°♏17'25	
min. Earth dist.	10094 Oct 17 16:16	5°♏54'17	0.55051 AU
inferior conj	10094 Oct 18 21:14	5°♏12'57	-5°35'59
minimum elong	10094 Oct 18 16:48	5°♏19'17	5°35'21
morning rise	10094 Oct 27 07:34	1°♏24'39	

direct	10094 Oct 30 11:14	1°♏01'45	
morning max el	10094 Nov 10 20:47	6°♏23'55	21°00'57
asc. node	10094 Nov 18 04:36	15°♏21'00	
	10094 Nov 26 13:17	0°♐	
morning set	10094 Nov 30 10:54	7°♐54'42	
superior conj	10094 Dec 07 19:19	23°♐14'44	1°32'31
minimum elong	10094 Dec 07 21:10	23°♐24'16	1°32'48
	10094 Dec 11 03:10	0°♑	
max. Earth dist.	10094 Dec 12 14:08	2°♑53'09	1.35568 AU
evening rise	10094 Dec 16 14:38	10°♑35'42	
desc. node	10094 Dec 22 02:07	20°♑28'23	
	10094 Dec 27 18:42	0°♒	
	10095 Jan 18 20:04	0°♓	
evening max el	10095 Jan 21 00:47	2°♓13'43	26°23'25
retrograde	10095 Feb 02 22:05	9°♓30'45	
evening set	10095 Feb 09 05:18	6°♓58'37	
min. Earth dist.	10095 Feb 13 08:44	2°♓41'28	0.66606 AU
asc. node	10095 Feb 14 03:33	1°♓44'39	
inferior conj	10095 Feb 15 02:35	0°♓34'22	0°18'52
minimum elong	10095 Feb 15 02:05	0°♓35'54	0°18'54
	10095 Feb 15 13:56	30°℞♒	
morning rise	10095 Feb 20 23:44	24°♒50'19	
direct	10095 Feb 24 00:56	23°♒57'54	
morning max el	10095 Mar 02 14:30	27°♒29'34	18°30'51
	10095 Mar 04 21:40	0°♓	
desc. node	10095 Mar 20 02:22	22°♓21'41	
morning set	10095 Mar 23 04:20	27°♓13'52	
	10095 Mar 24 22:23	0°♈	
superior conj	10095 Apr 08 04:26	22°♈22'29	-1°53'53
minimum elong	10095 Apr 07 19:36	21°♈47'56	1°53'21
max. Earth dist.	10095 Apr 08 04:36	22°♈23'08	1.45606 AU
	10095 Apr 13 01:22	0°♉	
evening rise	10095 Apr 23 21:36	17°♉05'11	
	10095 May 02 01:26	0°♊	
greatest brilliancy	10095 May 02 20:51	1°♊16'00	-0.8m
asc. node	10095 May 13 01:45	16°♊03'43	
evening max el	10095 May 15 20:03	19°♊10'49	18°51'18
retrograde	10095 May 22 12:53	22°♊52'52	
evening set	10095 May 25 21:11	21°♊48'24	
inferior conj	10095 May 31 10:38	16°♊06'44	3°15'59
minimum elong	10095 May 31 11:27	16°♊04'12	3°15'31
min. Earth dist.	10095 Jun 02 05:03	13°♊54'01	0.65918 AU
morning rise	10095 Jun 06 01:02	9°♊46'32	
direct	10095 Jun 12 10:48	7°♊01'41	
desc. node	10095 Jun 16 02:30	7°♊47'02	
morning max el	10095 Jun 25 12:55	14°♊48'31	26°39'29
	10095 Jul 07 22:38	0°♋	
	10095 Jul 26 18:49	0°♌	
morning set	10095 Jul 31 09:50	8°♌31'10	
max. Earth dist.	10095 Aug 04 12:34	16°♌30'10	1.34349 AU
superior conj	10095 Aug 09 04:46	26°♌00'26	0°01'29
minimum elong	10095 Aug 09 04:42	26°♌00'04	0°01'12
behind sun begin	10095 Aug 08 22:55	25°♌30'05	
behind sun end	10095 Aug 09 10:29	26°♌30'07	
asc. node	10095 Aug 09 01:11	25°♌41'52	
	10095 Aug 11 02:40	0°♍	
evening rise	10095 Aug 16 15:47	11°♍40'48	
	10095 Aug 26 02:49	0°♎	
evening max el	10095 Sep 05 02:16	13°♎35'33	21°09'49
desc. node	10095 Sep 12 00:49	18°♎28'38	
retrograde	10095 Sep 16 23:58	19°♎29'45	
evening set	10095 Sep 19 09:59	19°♎16'06	
inferior conj	10095 Sep 28 13:39	15°♎20'23	-4°37'02
minimum elong	10095 Sep 28 03:58	15°♎34'02	4°34'31
min. Earth dist.	10095 Sep 29 00:15	15°♎05'28	0.54625 AU
morning rise	10095 Oct 06 22:25	11°♎27'41	
direct	10095 Oct 10 19:34	10°♎55'13	
morning max el	10095 Oct 23 14:48	17°♎02'23	22°40'37
	10095 Nov 02 20:44	0°♏	
asc. node	10095 Nov 05 01:31	3°♏36'53	
morning set	10095 Nov 14 21:51	22°♏42'44	
	10095 Nov 18 07:39	0°♐	
superior conj	10095 Nov 21 22:11	7°♐44'28	1°39'17
minimum elong	10095 Nov 21 22:49	7°♐47'49	1°39'39
max. Earth dist.	10095 Nov 25 06:32	14°♐47'17	1.33876 AU
evening rise	10095 Nov 29 21:18	24°♐05'53	
	10095 Dec 02 23:13	0°♑	
desc. node	10095 Dec 08 23:06	10°♑44'52	
	10095 Dec 21 08:27	0°♒	
evening max el	10096 Jan 03 14:11	15°♒49'55	27°09'39
retrograde	10096 Jan 17 00:09	23°♒12'16	
evening set	10096 Jan 23 17:18	20°♒38'10	
min. Earth dist.	10096 Jan 27 15:27	16°♒54'23	0.65181 AU
inferior conj	10096 Jan 29 20:56	14°♒25'15	-0°43'01
minimum elong	10096 Jan 29 22:12	14°♒21'42	0°42'08
asc. node	10096 Feb 01 00:42	12°♒05'53	
morning rise	10096 Feb 05 04:34	8°♒53'33	
direct	10096 Feb 07 20:40	8°♒15'33	
morning max el	10096 Feb 14 06:13	11°♒37'33	18°00'36
	10096 Feb 27 04:10	0°♓	
morning set	10096 Mar 03 05:12	8°♓16'52	
desc. node	10096 Mar 05 23:09	12°♓47'37	
	10096 Mar 16 15:08	0°♈	
superior conj	10096 Mar 17 14:16	1°♈31'41	-1°19'03
minimum elong	10096 Mar 17 05:43	0°♈57'52	1°18'00
max. Earth dist.	10096 Mar 21 00:23	6°♈55'23	1.45429 AU
evening rise	10096 Apr 02 17:11	26°♈39'00	
	10096 Apr 04 21:24	0°♉	
greatest brilliancy	10096 Apr 16 10:16	17°♉30'42	-0.7m
	10096 Apr 25 12:45	0°♊	
evening max el	10096 Apr 28 02:38	2°♊51'40	19°39'47
asc. node	10096 Apr 28 22:52	3°♊40'52	
retrograde	10096 May 05 10:35	7°♊02'15	
evening set	10096 May 09 03:31	5°♊42'11	
	10096 May 14 08:10	30°℞♉	
inferior conj	10096 May 14 12:22	29°♉46'03	3°18'16
minimum elong	10096 May 14 12:00	29°♉47'16	3°17'54
min. Earth dist.	10096 May 15 15:54	28°♉14'31	0.67258 AU
morning rise	10096 May 19 20:09	23°♉26'28	
direct	10096 May 25 19:38	20°♉47'25	
desc. node	10096 Jun 01 23:31	23°♉40'28	
morning max el	10096 Jun 06 22:51	28°♉03'49	25°23'50
	10096 Jun 08 18:57	0°♊	
	10096 Jun 30 15:53	0°♋	
morning set	10096 Jul 13 00:13	20°♋52'25	
max. Earth dist.	10096 Jul 16 15:38	27°♋34'48	1.36243 AU
	10096 Jul 17 22:23	0°♌	
superior conj	10096 Jul 22 19:11	9°♌28'45	-0°30'09
minimum elong	10096 Jul 22 21:03	9°♌38'04	0°30'10
asc. node	10096 Jul 25 22:04	15°♌45'25	
evening rise	10096 Jul 30 21:37	25°♌55'13	
	10096 Aug 01 22:08	0°♍	
evening max el	10096 Aug 17 09:17	24°♍36'48	19°52'33
retrograde	10096 Aug 27 14:43	29°♍41'04	
desc. node	10096 Aug 28 22:04	29°♍36'26	
evening set	10096 Aug 29 11:56	29°♍31'30	
inferior conj	10096 Sep 07 10:38	25°♍30'37	-2°54'09
minimum elong	10096 Sep 07 02:53	25°♍42'27	2°51'26

min. Earth dist.	10096 Sep 09	10:15	24°♍18'05	0.55152 AU	
morning rise	10096 Sep 15	16:13	21°♍13'41		
direct	10096 Sep 20	08:29	20°♍25'48		
morning max el	10096 Oct 04	02:30	27°♍13'15	24°27'45	
	10096 Oct 06	19:47	0°♎		
asc. node	10096 Oct 21	22:25	22°♎29'34		
	10096 Oct 25	19:07	0°♏		
morning set	10096 Oct 29	09:38	7°♏30'25		
superior conj	10096 Nov 05	06:08	22°♏26'33	1°39'31	
minimum elong	10096 Nov 05	05:36	22°♏23'37	1°39'49	
max. Earth dist.	10096 Nov 07	07:08	26°♏52'48	1.32614 AU	
	10096 Nov 08	18:01	0°♐		
evening rise	10096 Nov 12	14:50	8°♐03'53		
	10096 Nov 24	10:15	0°♑		
desc. node	10096 Nov 24	20:09	0°♑41'21		
evening max el	10096 Dec 16	02:07	29°♑02'59	27°30'09	
	10096 Dec 17	02:46	0°♒		
retrograde	10096 Dec 29	19:18	6°♒22'46		
evening set	10097 Jan 05	19:03	3°♒53'49		
min. Earth dist.	10097 Jan 09	13:13	0°♒40'52	0.63437 AU	
	10097 Jan 10	05:48	30°℞♑		
inferior conj	10097 Jan 12	05:44	27°♑58'55	-1°52'24	
minimum elong	10097 Jan 12	09:22	27°♑49'48	1°50'30	
asc. node	10097 Jan 17	21:51	23°♑14'56		
morning rise	10097 Jan 19	01:43	22°♑42'41		
direct	10097 Jan 21	10:45	22°♑15'22		
morning max el	10097 Jan 27	23:45	25°♑37'43	17°47'36	
	10097 Jan 31	16:22	0°♒		
morning set	10097 Feb 13	08:32	20°♒36'19		
	10097 Feb 18	19:59	0°♓		
desc. node	10097 Feb 20	19:56	3°♓22'42		
superior conj	10097 Feb 25	18:52	11°♓36'49	-0°36'21	
minimum elong	10097 Feb 25	15:00	11°♓20'58	0°35'37	
max. Earth dist.	10097 Mar 03	19:06	21°♓19'42	1.44529 AU	
	10097 Mar 09	07:14	0°♈		
evening rise	10097 Mar 13	04:29	6°♈00'36		
	10097 Mar 29	06:17	0°♉		
evening max el	10097 Apr 11	03:39	16°♉33'44	20°42'42	
asc. node	10097 Apr 15	20:03	20°♉20'05		
retrograde	10097 Apr 19	09:17	21°♉22'05		
evening set	10097 Apr 23	11:42	19°♉46'18		
inferior conj	10097 Apr 28	18:38	13°♉37'23	3°08'24	
minimum elong	10097 Apr 28	17:19	13°♉41'56	3°07'58	
min. Earth dist.	10097 Apr 29	08:11	12°♉50'39	0.68133 AU	
morning rise	10097 May 03	22:42	7°♉20'49		
direct	10097 May 09	09:31	4°♉55'58		
desc. node	10097 May 19	20:28	10°♉58'54		
morning max el	10097 May 20	08:20	11°♉28'32	23°56'28	
	10097 Jun 04	03:13	0°♊		
	10097 Jun 23	10:25	0°♋		
morning set	10097 Jun 24	18:31	2°♋16'42		
max. Earth dist.	10097 Jun 28	13:07	8°♋51'43	1.38444 AU	
superior conj	10097 Jul 05	21:07	22°♋19'35	-1°03'10	
minimum elong	10097 Jul 06	01:17	22°♋39'20	1°02'54	
	10097 Jul 09	20:53	0°♌		
asc. node	10097 Jul 12	18:59	5°♌43'11		
evening rise	10097 Jul 14	20:59	9°♌48'53		
	10097 Jul 26	02:23	0°♍		
evening max el	10097 Jul 31	05:21	6°♍24'31	18°56'11	
retrograde	10097 Aug 08	20:25	10°♍42'20		
evening set	10097 Aug 10	18:14	10°♍30'32		
desc. node	10097 Aug 15	19:18	8°♍22'12		
inferior conj	10097 Aug 19	00:35	6°♍13'24	-0°59'54	
minimum elong	10097 Aug 18	22:02	6°♍17'53	0°59'06	

min. Earth dist.	10097 Aug 22	00:27	4°♍07'25	0.56536 AU	
morning rise	10097 Aug 26	22:39	1°♍19'42		
direct	10097 Sep 01	10:04	0°♍08'34		
morning max el	10097 Sep 15	15:50	7°♍28'33	26°05'30	
	10097 Oct 02	08:53	0°♎		
asc. node	10097 Oct 08	19:17	11°♎49'38		
morning set	10097 Oct 13	20:39	22°♎13'17		
	10097 Oct 17	10:32	0°♏		
superior conj	10097 Oct 20	17:01	7°♏14'35	1°33'47	
minimum elong	10097 Oct 20	15:32	7°♏06'24	1°33'54	
max. Earth dist.	10097 Oct 21	13:52	9°♏10'04	1.31817 AU	
evening rise	10097 Oct 27	16:19	22°♏22'04		
	10097 Oct 31	10:12	0°♐		
desc. node	10097 Nov 11	17:16	20°♐09'39		
	10097 Nov 18	09:17	0°♑		
evening max el	10097 Nov 28	10:06	11°♑39'38	27°19'12	
retrograde	10097 Dec 12	06:52	18°♑53'30		
evening set	10097 Dec 19	07:23	16°♑38'36		
min. Earth dist.	10097 Dec 23	00:33	13°♑50'11	0.61443 AU	
inferior conj	10097 Dec 26	01:50	11°♑07'31	-3°06'23	
minimum elong	10097 Dec 26	08:00	10°♑53'47	3°03'43	
morning rise	10098 Jan 02	11:08	6°♑10'08		
direct	10098 Jan 04	15:40	5°♑49'54		
asc. node	10098 Jan 04	18:59	5°♑49'59		
morning max el	10098 Jan 11	15:55	9°♑21'59	17°52'41	
	10098 Jan 25	04:34	0°♒		
morning set	10098 Jan 27	07:57	3°♒52'24		
superior conj	10098 Feb 07	00:38	22°♒54'06	0°05'06	
minimum elong	10098 Feb 07	01:07	22°♒56'09	0°05'19	
behind sun begin	10098 Feb 06	17:08	22°♒21'45		
behind sun end	10098 Feb 07	09:05	23°♒30'28		
desc. node	10098 Feb 07	16:44	24°♒03'20		
	10098 Feb 11	04:56	0°♓		
max. Earth dist.	10098 Feb 14	09:55	5°♓18'28	1.43008 AU	
evening rise	10098 Feb 20	22:56	15°♓47'24		
	10098 Mar 02	05:56	0°♈		
	10098 Mar 24	16:46	0°♉		
evening max el	10098 Mar 24	23:12	0°♉16'22	21°56'28	
asc. node	10098 Apr 02	17:16	5°♉45'44		
retrograde	10098 Apr 03	07:06	5°♉47'23		
evening set	10098 Apr 07	19:59	3°♉56'16		
	10098 Apr 11	09:29	30°℞♈		
inferior conj	10098 Apr 13	03:13	27°♈36'56	2°48'00	
minimum elong	10098 Apr 13	01:16	27°♈43'45	2°47'25	
min. Earth dist.	10098 Apr 13	03:51	27°♈34'45	0.68554 AU	
morning rise	10098 Apr 18	06:23	21°♈24'51		
direct	10098 Apr 23	03:35	19°♈19'21		
morning max el	10098 May 02	19:28	25°♈00'46	22°26'56	
desc. node	10098 May 06	17:21	29°♈18'57		
	10098 May 07	07:08	0°♉		
	10098 May 28	14:14	0°♊		
morning set	10098 Jun 05	11:39	12°♊30'51		
max. Earth dist.	10098 Jun 10	11:09	20°♊46'46	1.40716 AU	
	10098 Jun 15	19:20	0°♋		
superior conj	10098 Jun 18	06:11	4°♋21'47	-1°34'37	
minimum elong	10098 Jun 18	12:13	4°♋48'53	1°34'19	
evening rise	10098 Jun 28	10:29	23°♋11'59		
asc. node	10098 Jun 29	15:57	25°♋30'22		
	10098 Jul 02	01:54	0°♌		
evening max el	10098 Jul 14	11:08	18°♌52'03	18°20'49	
retrograde	10098 Jul 21	21:07	22°♌35'43		
evening set	10098 Jul 24	01:21	22°♌17'13		
inferior conj	10098 Jul 31	12:12	17°♌40'03	0°39'08	
minimum elong	10098 Jul 31	13:32	17°♌37'18	0°38'19	

desc. node	10098 Aug 02 16:31	15°♌51'34	
min. Earth dist.	10098 Aug 03 20:55	14°♌54'32	0.58518 AU
morning rise	10098 Aug 07 22:16	12°♌10'37	
direct	10098 Aug 14 02:08	10°♌29'53	
morning max el	10098 Aug 28 11:18	18°♌13'44	27°17'24
	10098 Sep 07 08:05	0°♍	
	10098 Sep 24 22:33	0°♎	
asc. node	10098 Sep 25 16:08	1°♎28'59	
morning set	10098 Sep 28 05:08	6°♎45'39	
superior conj	10098 Oct 05 04:49	22°♎01'51	1°22'29
minimum elong	10098 Oct 05 02:45	21°♎50'18	1°22'22
max. Earth dist.	10098 Oct 04 23:17	21°♎31'01	1.31493 AU
	10098 Oct 08 19:03	0°♏	
evening rise	10098 Oct 11 23:11	6°♏52'53	
	10098 Oct 23 22:59	0°♐	
desc. node	10098 Oct 29 14:26	8°♐57'58	
evening max el	10098 Nov 10 11:32	23°♐28'42	26°34'13
	10098 Nov 20 13:44	0°♑	
retrograde	10098 Nov 24 09:51	0°♑35'52	
	10098 Nov 28 04:33	30°℞♐	
evening set	10098 Dec 01 02:12	28°♐45'12	
min. Earth dist.	10098 Dec 05 01:18	26°♐09'34	0.59326 AU
inferior conj	10098 Dec 08 05:42	23°♐41'33	-4°18'47
minimum elong	10098 Dec 08 13:31	23°♐26'22	4°16'09
morning rise	10098 Dec 16 03:28	19°♐05'46	
direct	10098 Dec 18 07:08	18°♐49'14	
asc. node	10098 Dec 22 16:03	20°♐01'17	
morning max el	10098 Dec 26 03:09	22°♐40'36	18°17'15
	10098 Dec 31 21:13	0°♑	
morning set	10099 Jan 10 21:40	17°♑47'58	
	10099 Jan 17 08:45	0°♒	
superior conj	10099 Jan 20 05:40	5°♒17'12	0°40'04
minimum elong	10099 Jan 20 08:23	5°♒29'33	0°40'03
desc. node	10099 Jan 25 13:37	14°♒46'14	
max. Earth dist.	10099 Jan 27 19:41	18°♒38'44	1.41041 AU
evening rise	10099 Feb 01 11:33	26°♒25'14	
	10099 Feb 03 16:35	0°♓	
	10099 Feb 23 23:10	0°♈	
evening max el	10099 Mar 07 14:50	14°♈01'49	23°16'11
retrograde	10099 Mar 18 02:30	20°♈13'48	
asc. node	10099 Mar 20 14:29	19°♈43'38	
evening set	10099 Mar 23 02:48	18°♈08'24	
min. Earth dist.	10099 Mar 28 00:41	12°♈21'37	0.68539 AU
inferior conj	10099 Mar 28 12:12	11°♈41'54	2°18'00
minimum elong	10099 Mar 28 10:00	11°♈49'30	2°17'19
morning rise	10099 Apr 02 17:08	5°♈35'33	
direct	10099 Apr 07 00:50	3°♈51'41	
morning max el	10099 Apr 15 11:34	8°♈43'11	21°03'33
desc. node	10099 Apr 23 14:13	18°♈24'01	
	10099 May 01 20:35	0°♉	
morning set	10099 May 16 02:30	21°♉34'20	
	10099 May 21 09:53	0°♊	
max. Earth dist.	10099 May 23 14:46	3°♊34'07	1.42783 AU
superior conj	10099 May 30 17:54	15°♊26'08	-1°59'48
minimum elong	10099 May 30 23:43	15°♊50'51	1°59'48
	10099 Jun 08 02:34	0°♋	
evening rise	10099 Jun 11 09:53	5°♋54'21	
asc. node	10099 Jun 16 12:59	15°♋02'22	
	10099 Jun 26 06:08	0°♌	
evening max el	10099 Jun 27 22:45	1°♌50'19	18°05'26
retrograde	10099 Jul 04 14:49	5°♌14'55	
evening set	10099 Jul 07 02:57	4°♌46'07	
inferior conj	10099 Jul 13 20:13	29°♋48'57	1°52'34
minimum elong	10099 Jul 13 23:00	29°♋42'18	1°51'19
	10099 Jul 13 15:36	30°℞♋	
min. Earth dist.	10099 Jul 17 01:13	26°♋46'05	0.60772 AU
morning rise	10099 Jul 20 16:20	23°♋53'26	
desc. node	10099 Jul 20 13:41	23°♋57'47	
direct	10099 Jul 27 06:43	21°♋43'32	
morning max el	10099 Aug 10 13:35	29°♋41'41	27°53'18
	10099 Aug 10 20:55	0°♌	
	10099 Sep 01 08:31	0°♍	
morning set	10099 Sep 12 09:15	21°♍02'35	
asc. node	10099 Sep 12 12:59	21°♍21'57	
	10099 Sep 16 14:20	0°♎	
max. Earth dist.	10099 Sep 18 07:47	3°♎46'37	1.31653 AU
superior conj	10099 Sep 19 15:46	6°♎42'59	1°05'57
minimum elong	10099 Sep 19 13:32	6°♎30'37	1°05'36
evening rise	10099 Sep 26 09:20	21°♎30'39	
	10099 Sep 30 10:52	0°♏	
desc. node	10099 Oct 16 11:38	26°♏50'45	
	10099 Oct 19 00:43	0°♐	
evening max el	10099 Oct 23 04:59	4°♐27'01	25°18'09
retrograde	10099 Nov 06 02:09	11°♐26'11	
evening set	10099 Nov 11 22:39	10°♐07'58	
min. Earth dist.	10099 Nov 16 17:04	7°♐28'13	0.57312 AU
inferior conj	10099 Nov 19 14:11	5°♐31'50	-5°17'33
minimum elong	10099 Nov 19 20:38	5°♐20'54	5°16'07
morning rise	10099 Nov 27 20:56	1°♐18'19	
direct	10099 Nov 30 05:08	1°♐02'04	
morning max el	10099 Dec 09 05:32	5°♐22'12	19°03'03
asc. node	10099 Dec 09 13:05	5°♐40'39	
	10099 Dec 24 18:50	0°♑	
morning set	10099 Dec 25 21:06	2°♑09'21	
superior conj	10100 Jan 03 05:06	18°♑31'41	1°06'51
minimum elong	10100 Jan 03 08:14	18°♑46'43	1°06'53
	10100 Jan 09 08:49	0°♒	
max. Earth dist.	10100 Jan 10 02:02	1°♒17'24	1.38860 AU
desc. node	10100 Jan 12 10:30	5°♒27'17	
evening rise	10100 Jan 13 21:49	8°♒00'20	
	10100 Jan 27 14:55	0°♓	
evening max el	10100 Feb 18 04:35	27°♓50'39	24°35'40
	10100 Feb 20 12:10	0°♈	
retrograde	10100 Mar 01 18:08	4°♈35'59	
evening set	10100 Mar 07 06:34	2°♈17'52	
asc. node	10100 Mar 07 11:42	2°♈06'46	
	10100 Mar 09 13:04	30°℞♓	
min. Earth dist.	10100 Mar 11 20:24	27°♓06'03	0.68108 AU
inferior conj	10100 Mar 12 19:41	25°♓48'23	1°38'49
minimum elong	10100 Mar 12 17:42	25°♓55'01	1°38'12
morning rise	10100 Mar 18 04:58	19°♓49'14	
direct	10100 Mar 21 23:55	18°♓26'55	
morning max el	10100 Mar 29 11:03	22°♓37'20	19°52'07
	10100 Apr 04 16:55	0°♈	
desc. node	10100 Apr 10 11:02	8°♈01'32	
morning set	10100 Apr 25 01:32	29°♈59'12	
	10100 Apr 25 01:45	0°♉	
max. Earth dist.	10100 May 06 01:39	17°♉11'14	1.44401 AU
superior conj	10100 May 11 05:15	25°♉27'15	-2°12'27
minimum elong	10100 May 11 06:43	25°♉33'14	2°12'47
	10100 May 14 00:08	0°♊	
evening rise	10100 May 24 14:17	17°♊44'38	
	10100 May 31 19:55	0°♋	
asc. node	10100 Jun 03 10:02	4°♋12'57	
evening max el	10100 Jun 11 12:28	15°♋09'18	18°09'03
retrograde	10100 Jun 17 21:24	18°♋29'53	
evening set	10100 Jun 20 17:23	17°♋48'14	
inferior conj	10100 Jun 26 20:47	12°♋32'21	2°40'52

minimum elong	10100 Jun 26 23:19	12°♋25'28	2°39'54
min. Earth dist.	10100 Jun 29 14:24	9°♋35'28	0.62989 AU
morning rise	10100 Jul 03 03:33	6°♋21'18	
desc. node	10100 Jul 07 10:48	4°♋08'41	
direct	10100 Jul 09 21:02	3°♋49'28	
morning max el	10100 Jul 23 21:04	11°♋52'08	27°50'57
	10100 Aug 07 05:48	0°♌	
	10100 Aug 24 18:41	0°♍	
morning set	10100 Aug 27 06:51	4°♍58'11	
asc. node	10100 Aug 30 09:50	11°♍23'33	
max. Earth dist.	10100 Sep 01 11:35	15°♍46'44	1.32305 AU
superior conj	10100 Sep 03 23:56	21°♍12'18	0°44'26
minimum elong	10100 Sep 03 22:04	21°♍02'07	0°43'59
	10100 Sep 08 00:32	0°♎	
evening rise	10100 Sep 10 20:50	6°♎09'48	
	10100 Sep 23 07:53	0°♏	
desc. node	10100 Oct 03 08:51	13°♏26'49	
evening max el	10100 Oct 04 16:28	14°♏46'21	23°41'58
retrograde	10100 Oct 18 05:36	21°♏32'14	
evening set	10100 Oct 22 18:42	20°♏47'13	
min. Earth dist.	10100 Oct 29 02:43	17°♏45'03	0.55693 AU
inferior conj	10100 Oct 31 02:26	16°♏33'56	-5°43'44
minimum elong	10100 Oct 31 02:47	16°♏33'25	5°43'25
morning rise	10100 Nov 08 12:46	12°♏39'26	
direct	10100 Nov 11 08:05	12°♏19'50	
morning max el	10100 Nov 21 19:37	17°♏17'07	20°11'28
asc. node	10100 Nov 26 10:03	22°♏33'10	
	10100 Dec 01 07:32	0°♐	
morning set	10100 Dec 10 02:55	16°♐47'07	
	10100 Dec 16 13:36	0°♑	
superior conj	10100 Dec 17 18:11	2°♑24'22	1°25'22
minimum elong	10100 Dec 17 20:40	2°♑36'49	1°25'34
max. Earth dist.	10100 Dec 23 09:03	13°♑24'38	1.36713 AU
evening rise	10100 Dec 27 04:08	20°♑27'36	
desc. node	10100 Dec 30 07:28	26°♑02'50	
	10101 Jan 01 14:34	0°♒	
	10101 Jan 21 14:57	0°♓	
evening max el	10101 Jan 31 18:00	11°♓40'24	25°47'52
retrograde	10101 Feb 13 05:02	18°♓48'21	
evening set	10101 Feb 19 05:43	16°♓20'13	
asc. node	10101 Feb 22 08:52	13°♓08'05	
min. Earth dist.	10101 Feb 23 12:43	11°♓43'19	0.67276 AU
inferior conj	10101 Feb 24 23:46	9°♓52'39	0°50'39
minimum elong	10101 Feb 24 22:33	9°♓56'31	0°50'21
morning rise	10101 Mar 02 15:54	4°♓02'32	
direct	10101 Mar 05 23:16	2°♓59'58	
morning max el	10101 Mar 12 18:17	6°♓41'44	18°55'47
greatest brilliancy	10101 Mar 26 18:56	25°♓41'36	-0.8m
desc. node	10101 Mar 28 07:50	28°♓02'54	
	10101 Mar 29 14:15	0°♈	
morning set	10101 Apr 04 07:47	8°♈52'56	
	10101 Apr 17 20:52	0°♉	
max. Earth dist.	10101 Apr 18 18:28	1°♉24'41	1.45382 AU
superior conj	10101 Apr 20 19:16	4°♉36'18	-2°06'32
minimum elong	10101 Apr 20 13:24	4°♉13'16	2°06'30
evening rise	10101 May 05 19:42	28°♉36'14	
	10101 May 06 16:21	0°♊	
asc. node	10101 May 21 07:06	22°♊54'54	
evening max el	10101 May 26 01:09	28°♊40'54	18°30'50
	10101 May 27 11:48	0°♋	
retrograde	10101 Jun 01 12:34	2°♋11'26	
evening set	10101 Jun 04 16:19	1°♋15'26	
	10101 Jun 06 09:46	30°℞♊	
inferior conj	10101 Jun 10 09:48	25°♊42'30	3°08'09
minimum elong	10101 Jun 10 11:18	25°♊37'59	3°07'32
min. Earth dist.	10101 Jun 12 12:49	23°♊10'07	0.64955 AU
morning rise	10101 Jun 16 05:22	19°♊23'58	
direct	10101 Jun 22 19:19	16°♊40'54	
desc. node	10101 Jun 24 07:53	16°♊48'44	
morning max el	10101 Jul 06 07:20	24°♊37'05	27°13'50
	10101 Jul 11 04:01	0°♋	
	10101 Jul 31 16:24	0°♌	
morning set	10101 Aug 10 19:10	18°♌24'17	
max. Earth dist.	10101 Aug 15 07:04	27°♌22'40	1.33460 AU
	10101 Aug 16 13:37	0°♍	
asc. node	10101 Aug 17 06:40	1°♍28'42	
superior conj	10101 Aug 19 03:12	5°♍22'45	0°18'20
minimum elong	10101 Aug 19 02:17	5°♍17'55	0°17'56
evening rise	10101 Aug 26 07:43	20°♍43'37	
	10101 Aug 30 19:54	0°♎	
evening max el	10101 Sep 16 05:13	24°♎55'36	22°02'25
desc. node	10101 Sep 20 06:06	28°♎17'20	
	10101 Sep 23 06:59	0°♏	
retrograde	10101 Sep 28 21:36	1°♏14'26	
evening set	10101 Oct 01 23:33	0°♏53'15	
	10101 Oct 04 19:32	30°℞♎	
inferior conj	10101 Oct 10 22:50	26°♎53'56	-5°17'51
minimum elong	10101 Oct 10 15:22	27°♎04'23	5°16'29
min. Earth dist.	10101 Oct 10 09:56	27°♎12'00	0.54757 AU
morning rise	10101 Oct 19 08:41	23°♎06'44	
direct	10101 Oct 22 19:41	22°♎40'21	
morning max el	10101 Nov 03 20:12	28°♎20'59	21°41'32
	10101 Nov 05 11:54	0°♏	
asc. node	10101 Nov 13 06:59	10°♏22'20	
	10101 Nov 23 18:42	0°♐	
morning set	10101 Nov 24 12:34	1°♐33'06	
superior conj	10101 Dec 01 16:56	16°♐43'16	1°36'13
minimum elong	10101 Dec 01 18:17	16°♐50'17	1°36'33
max. Earth dist.	10101 Dec 05 21:10	25°♐18'09	1.34805 AU
	10101 Dec 08 05:59	0°♑	
evening rise	10101 Dec 10 02:56	3°♑37'04	
desc. node	10101 Dec 17 04:27	16°♑27'43	
	10101 Dec 25 11:40	0°♒	
evening max el	10102 Jan 14 07:26	25°♒23'41	26°45'38