


























































































































































































































































superior conj	11100 Jan 06 23:12	23°  21'27	1°15'09	morning set	11100 Dec 14 12:04	22°  15'01	
minimum elong	11100 Jan 07 02:02	23°  35'29	1°15'27		11100 Dec 18 04:42	0° 	
	11100 Jan 10 08:52	0° 					
max. Earth dist.	11100 Jan 13 01:00	5°  03'11	1.37358 AU	superior conj	11100 Dec 21 19:10	7°  31'53	1°30'05
evening rise	11100 Jan 16 18:22	11°  50'36		minimum elong	11100 Dec 21 21:08	7°  42'05	1°30'34
desc. node	11100 Jan 17 10:11	13°  00'52		max. Earth dist.	11100 Dec 26 10:42	16°  35'47	1.35331 AU
	11100 Jan 27 14:25	0° 		evening rise	11100 Dec 30 12:21	24°  34'27	
	11100 Feb 18 17:05	0° 			11101 Jan 02 08:08	0° 	
evening max el	11100 Feb 21 07:16	2°  40'49	25°26'01	desc. node	11101 Jan 04 07:04	3°  29'31	
retrograde	11100 Mar 05 12:28	9°  44'14			11101 Jan 21 03:39	0° 	
evening set	11100 Mar 11 09:25	7°  18'26		evening max el	11101 Feb 03 20:46	16°  27'21	26°29'35
asc. node	11100 Mar 12 20:15	5°  56'29		retrograde	11101 Feb 16 20:07	23°  46'29	
min. Earth dist.	11100 Mar 15 18:05	2°  31'18	0.67647 AU	evening set	11101 Feb 23 04:18	21°  41'19	
inferior conj	11100 Mar 17 01:54	0°  48'49	1°19'18	min. Earth dist.	11101 Feb 27 06:57	17°  01'29	0.66511 AU
minimum elong	11100 Mar 17 00:09	0°  54'26	1°18'42	asc. node	11101 Feb 27 17:33	16°  49'51	
	11100 Mar 17 17:06	30°  48'49		inferior conj	11101 Mar 01 02:37	14°  49'56	0°26'46
morning rise	11100 Mar 22 15:20	24°  47'11		minimum elong	11101 Mar 01 01:55	14°  52'04	0°26'42
direct	11100 Mar 26 02:28	23°  47'11		morning rise	11101 Mar 07 00:30	9°  07'28	
morning max el	11100 Apr 02 01:31	27°  35'50	19°10'49	direct	11101 Mar 10 00:57	8°  16'22	
	11100 Apr 04 07:11	0° 		morning max el	11101 Mar 16 13:14	11°  45'09	18°25'48
greatest brilliancy	11100 Apr 15 01:29	14°  48'49	-0.7m		11101 Mar 29 19:07	0° 	
desc. node	11100 Apr 15 11:18	15°  25'38		desc. node	11101 Apr 02 08:02	5°  34'28	
	11100 Apr 25 00:09	0° 		morning set	11101 Apr 05 18:48	11°  02'29	
morning set	11100 Apr 25 19:55	1°  16'19			11101 Apr 17 19:23	0° 	
max. Earth dist.	11100 May 09 06:35	22°  11'52	1.45217 AU				
				superior conj	11101 Apr 21 14:51	5°  57'45	-1°55'20
superior conj	11100 May 12 07:46	27°  00'27	-2°12'10	minimum elong	11101 Apr 21 06:09	5°  23'47	1°55'02
minimum elong	11100 May 12 05:19	26°  50'44	2°12'38	max. Earth dist.	11101 Apr 22 01:13	6°  38'16	1.45690 AU
	11100 May 14 05:02	0° 			11101 May 06 22:56	0° 	
evening rise	11100 May 26 21:47	20°  33'27		evening rise	11101 May 07 10:40	0° 	
	11100 Jun 01 15:38	0° 		greatest brilliancy	11101 May 17 00:54	15°  50'32	-0.8m
asc. node	11100 Jun 08 18:14	11°  13'55		asc. node	11101 May 26 15:20	29°  42'26	
evening max el	11100 Jun 15 07:04	19°  35'18	18°21'27		11101 May 26 20:58	0° 	
retrograde	11100 Jun 21 16:44	23°  00'54		evening max el	11101 May 29 17:51	3°  14'22	18°55'17
evening set	11100 Jun 24 17:41	22°  10'00		retrograde	11101 Jun 05 11:41	6°  57'54	
inferior conj	11100 Jun 30 14:02	16°  42'14	2°52'56	evening set	11101 Jun 08 20:58	5°  51'39	
minimum elong	11100 Jun 30 16:07	16°  36'11	2°51'56	inferior conj	11101 Jun 14 09:42	0°  08'27	3°12'07
min. Earth dist.	11100 Jul 02 21:57	13°  59'58	0.64403 AU	minimum elong	11101 Jun 14 10:41	0°  05'20	3°11'24
morning rise	11100 Jul 06 13:16	10°  24'03			11101 Jun 14 12:22	30°  48'49	
desc. node	11100 Jul 12 11:10	7°  45'56		min. Earth dist.	11101 Jun 16 02:41	27°  59'11	0.66137 AU
direct	11100 Jul 13 04:17	7°  44'12		morning rise	11101 Jun 19 23:45	23°  47'00	
morning max el	11100 Jul 26 20:57	15°  44'39	27°28'15	direct	11101 Jun 26 07:55	21°  03'33	
	11100 Aug 07 13:58	0° 		desc. node	11101 Jun 29 08:19	21°  35'14	
	11100 Aug 26 03:26	0° 		morning max el	11101 Jul 09 07:43	28°  47'39	26°30'58
morning set	11100 Aug 31 02:03	9°  42'25			11101 Jul 10 11:35	0° 	
asc. node	11100 Sep 04 18:27	18°  52'58			11101 Aug 01 09:22	0° 	
max. Earth dist.	11100 Sep 04 18:23	18°  52'38	1.33006 AU	morning set	11101 Aug 14 05:44	22°  02'21	
					11101 Aug 18 04:18	0° 	
superior conj	11100 Sep 08 05:07	26°  49'03	0°33'20	max. Earth dist.	11101 Aug 18 06:08	0°  09'02	1.34538 AU
minimum elong	11100 Sep 08 03:34	26°  49'00	0°32'56	asc. node	11101 Aug 22 15:13	8°  58'57	
	11100 Sep 10 00:07	0° 					
evening rise	11100 Sep 15 06:24	11°  20'00		superior conj	11101 Aug 23 03:40	10°  49'03	0°05'05
	11100 Sep 24 17:54	0° 		minimum elong	11101 Aug 23 03:24	10°  49'01	0°04'45
evening max el	11100 Oct 07 01:25	16°  56'54	22°33'34	behind sun begin	11101 Aug 22 21:46	9°  49'32	43
desc. node	11100 Oct 08 08:37	18°  09'30		behind sun end	11101 Aug 23 09:02	10°  49'30	53
retrograde	11100 Oct 20 02:05	23°  25'51		evening rise	11101 Aug 30 15:50	25°  49'46	42
evening set	11100 Oct 23 15:43	22°  57'54			11101 Sep 01 16:50	0° 	
min. Earth dist.	11100 Oct 31 08:59	19°  30'30	0.54901 AU	evening max el	11101 Sep 18 20:18	27°  49'48	21°00'15
inferior conj	11100 Nov 01 08:56	18°  56'32	-5°41'05		11101 Sep 21 22:38	0° 	
minimum elong	11100 Nov 01 04:35	19°  02'42	5°40'14	desc. node	11101 Sep 25 05:57	1°  57'25	
morning rise	11100 Nov 09 19:03	15°  08'49		retrograde	11101 Sep 30 13:27	3°  55'15	
direct	11100 Nov 13 00:34	14°  45'04		evening set	11101 Oct 02 22:22	2°  55'15	
morning max el	11100 Nov 24 15:11	20°  14'37	21°12'09		11101 Oct 10 06:15	30°  48'49	
asc. node	11100 Dec 01 19:05	28°  55'57		inferior conj	11101 Oct 12 00:56	29°  49'18	-4°42'41
	11100 Dec 02 12:11	0° 		minimum elong	11101 Oct 11 15:08	29°  49'14	09

min. Earth dist.	11101 Oct 12 16:33	28° Ω 38'11	0.54606 AU	minimum elong	11102 Sep 21 15:19	9° Ω 23'25	2°57'53
morning rise	11101 Oct 20 08:11	25° Ω 06'32		min. Earth dist.	11102 Sep 24 02:19	7° Ω 52'08	0.55256 AU
direct	11101 Oct 24 08:49	24° Ω 31'42		morning rise	11102 Sep 30 02:31	4° Ω 51'33	
	11101 Nov 05 11:50	0° \mathbb{M}		direct	11102 Oct 04 22:47	3° Ω 59'53	
morning max el	11101 Nov 06 07:32	0° \mathbb{M} 44'52	22°53'55	morning max el	11102 Oct 18 18:31	10° Ω 51'18	24°41'27
asc. node	11101 Nov 18 16:02	17° \mathbb{M} 06'15			11102 Nov 02 04:36	0° \mathbb{M}	
	11101 Nov 25 13:52	0° \mathbb{X}		asc. node	11102 Nov 05 12:54	5° \mathbb{M} 54'42	
morning set	11101 Nov 28 23:17	7° \mathbb{X} 02'22		morning set	11102 Nov 13 11:05	21° \mathbb{M} 48'27	
					11102 Nov 17 05:33	0° \mathbb{X}	
superior conj	11101 Dec 05 22:38	22° \mathbb{X} 01'47	1°37'54	superior conj	11102 Nov 20 06:56	6° \mathbb{X} 43'14	1°39'15
minimum elong	11101 Dec 05 23:27	22° \mathbb{X} 06'10	1°38'30	minimum elong	11102 Nov 20 06:36	6° \mathbb{X} 41'22	1°39'48
max. Earth dist.	11101 Dec 09 03:57	28° \mathbb{X} 50'31	1.33661 AU	max. Earth dist.	11102 Nov 22 05:10	10° \mathbb{X} 55'21	1.32428 AU
	11101 Dec 09 17:20	0° \mathbb{Z}		evening rise	11102 Nov 27 14:32	22° \mathbb{X} 18'14	
evening rise	11101 Dec 13 20:12	8° \mathbb{Z} 19'38			11102 Dec 01 11:31	0° \mathbb{Z}	
desc. node	11101 Dec 22 04:01	23° \mathbb{Z} 45'05		desc. node	11102 Dec 09 01:03	13° \mathbb{Z} 41'27	
	11101 Dec 25 20:48	0° \approx			11102 Dec 19 16:26	0° \approx	
	11102 Jan 17 09:35	0° \mathbb{X}		evening max el	11102 Dec 30 21:57	13° \approx 10'58	27°31'27
evening max el	11102 Jan 17 10:14	0° \mathbb{X} 01'33	27°13'43	retrograde	11103 Jan 13 16:06	20° \approx 31'36	
retrograde	11102 Jan 30 21:38	7° \mathbb{X} 25'07		evening set	11103 Jan 20 15:29	18° \approx 05'04	
evening set	11102 Feb 06 15:09	4° \mathbb{X} 52'13		min. Earth dist.	11103 Jan 24 09:34	14° \approx 55'12	0.63191 AU
min. Earth dist.	11102 Feb 10 12:48	1° \mathbb{X} 12'24	0.65009 AU	inferior conj	11103 Jan 27 03:44	12° \approx 11'22	-1°45'40
	11102 Feb 11 15:15	30° \mathbb{R} \approx		minimum elong	11103 Jan 27 07:11	12° \approx 02'46	1°43'43
inferior conj	11102 Feb 12 20:09	28° \approx 39'43	-0°35'12	asc. node	11103 Feb 01 12:05	7° \approx 41'43	
minimum elong	11102 Feb 12 21:11	28° \approx 36'51	0°34'23	morning rise	11103 Feb 03 01:07	6° \approx 57'27	
asc. node	11102 Feb 14 14:51	26° \approx 44'52		direct	11103 Feb 05 09:24	6° \approx 31'12	
morning rise	11102 Feb 19 04:49	23° \approx 09'59		morning max el	11103 Feb 11 23:00	9° \approx 53'26	17°46'58
direct	11102 Feb 21 20:13	22° \approx 33'08			11103 Feb 25 11:20	0° \mathbb{X}	
morning max el	11102 Feb 28 05:21	25° \approx 53'31	17°57'41	morning set	11103 Feb 28 04:41	4° \mathbb{X} 42'59	
	11102 Mar 03 18:16	0° \mathbb{X}		desc. node	11103 Mar 07 01:25	16° \mathbb{X} 30'57	
morning set	11102 Mar 17 22:48	22° \mathbb{X} 15'18		superior conj	11103 Mar 12 10:31	25° \mathbb{X} 30'37	-0°39'52
desc. node	11102 Mar 20 04:43	25° \mathbb{X} 57'42		minimum elong	11103 Mar 12 06:23	25° \mathbb{X} 13'33	0°39'09
	11102 Mar 22 15:45	0° \mathbb{Y}		max. Earth dist.	11103 Mar 15 04:22	0° \mathbb{Y}	
superior conj	11102 Apr 01 02:42	15° \mathbb{Y} 14'33	-1°21'32	evening rise	11103 Mar 18 15:48	5° \mathbb{Y} 35'55	1.44430 AU
minimum elong	11102 Mar 31 18:08	14° \mathbb{Y} 40'31	1°20'38		11103 Mar 27 15:54	19° \mathbb{Y} 41'48	
max. Earth dist.	11102 Apr 04 21:14	21° \mathbb{Y} 11'55	1.45418 AU		11103 Apr 03 10:39	0° \mathbb{Z}	
	11102 Apr 10 12:32	0° \mathbb{Z}			11103 Apr 25 08:14	0° \mathbb{I}	
evening rise	11102 Apr 17 04:21	10° \mathbb{Z} 17'10		evening max el	11103 Apr 26 00:22	0° \mathbb{I} 41'40	20°49'34
	11102 Apr 30 03:58	0° \mathbb{I}		asc. node	11103 Apr 30 09:42	4° \mathbb{I} 18'24	
greatest brilliancy	11102 May 01 07:56	1° \mathbb{I} 43'08	-0.6m	retrograde	11103 May 04 08:26	5° \mathbb{I} 33'26	
evening max el	11102 May 12 23:57	16° \mathbb{I} 57'18	19°45'24	evening set	11103 May 08 12:24	3° \mathbb{I} 55'11	
asc. node	11102 May 13 12:29	17° \mathbb{I} 28'11			11103 May 12 03:17	30° \mathbb{R} \mathbb{Z}	
retrograde	11102 May 20 09:39	21° \mathbb{I} 10'21		inferior conj	11103 May 13 19:00	27° \mathbb{Z} 45'19	3°09'03
evening set	11102 May 24 03:53	19° \mathbb{I} 48'05		minimum elong	11103 May 13 17:52	27° \mathbb{Z} 49'14	3°08'25
inferior conj	11102 May 29 12:12	13° \mathbb{I} 50'45	3°16'40	min. Earth dist.	11103 May 14 07:20	27° \mathbb{Z} 02'41	0.68293 AU
minimum elong	11102 May 29 12:03	13° \mathbb{I} 51'15	3°16'04	morning rise	11103 May 18 23:07	21° \mathbb{Z} 28'18	
min. Earth dist.	11102 May 30 14:26	12° \mathbb{I} 23'04	0.67446 AU	direct	11103 May 24 08:11	19° \mathbb{Z} 05'54	
morning rise	11102 Jun 03 19:52	7° \mathbb{I} 30'18		desc. node	11103 Jun 03 02:20	24° \mathbb{Z} 30'58	
direct	11102 Jun 09 17:33	4° \mathbb{I} 53'30		morning max el	11103 Jun 04 03:33	25° \mathbb{Z} 32'55	23°45'01
desc. node	11102 Jun 16 05:23	7° \mathbb{I} 19'36			11103 Jun 08 04:45	0° \mathbb{I}	
morning max el	11102 Jun 21 17:46	12° \mathbb{I} 05'32	25°13'14		11103 Jun 29 14:43	0° \mathbb{Z}	
	11102 Jul 06 02:36	0° \mathbb{Z}		morning set	11103 Jul 09 09:02	15° \mathbb{Z} 54'57	
	11102 Jul 25 02:41	0° \mathbb{Q}		max. Earth dist.	11103 Jul 13 05:41	22° \mathbb{Z} 35'57	1.38766 AU
morning set	11102 Jul 27 17:40	4° \mathbb{Q} 38'23			11103 Jul 17 08:36	0° \mathbb{Q}	
max. Earth dist.	11102 Jul 31 08:18	11° \mathbb{Q} 14'10	1.36513 AU	superior conj	11103 Jul 20 16:44	6° \mathbb{Q} 11'52	-1°00'24
superior conj	11102 Aug 06 16:43	23° \mathbb{Q} 26'52	-0°26'47	minimum elong	11103 Jul 20 20:51	6° \mathbb{Q} 31'17	1°00'17
minimum elong	11102 Aug 06 18:26	23° \mathbb{Q} 35'18	0°26'54	asc. node	11103 Jul 27 08:48	19° \mathbb{Q} 01'56	
asc. node	11102 Aug 09 11:59	29° \mathbb{Q} 03'06		evening rise	11103 Jul 29 19:39	23° \mathbb{Q} 49'34	
	11102 Aug 09 23:15	0° \mathbb{P}			11103 Aug 02 00:14	0° \mathbb{P}	
evening rise	11102 Aug 14 21:08	9° \mathbb{P} 58'49		evening max el	11103 Aug 15 01:40	20° \mathbb{P} 14'31	18°50'42
	11102 Aug 25 16:15	0° \mathbb{Q}		retrograde	11103 Aug 23 13:10	24° \mathbb{P} 28'45	
evening max el	11102 Sep 01 04:31	8° \mathbb{Q} 23'51	19°44'50	evening set	11103 Aug 25 11:03	24° \mathbb{P} 16'38	
retrograde	11102 Sep 11 05:22	13° \mathbb{Q} 23'14		desc. node	11103 Aug 30 00:38	22° \mathbb{P} 22'33	
desc. node	11102 Sep 12 03:18	13° \mathbb{Q} 20'54		inferior conj	11103 Sep 02 15:32	19° \mathbb{P} 56'58	-1°07'50
evening set	11102 Sep 13 02:22	13° \mathbb{Q} 13'34		minimum elong	11103 Sep 02 12:40	20° \mathbb{P} 02'06	1°06'52
inferior conj	11102 Sep 21 23:16	9° \mathbb{Q} 11'06	-3°00'47				

min. Earth dist.	11103 Sep 05 16:48	17° \mathbb{M} 46'03	0.56730 AU	minimum elong	11104 Aug 14 06:39	1° \mathbb{M} 26'05	0°29'44
morning rise	11103 Sep 10 11:01	15° \mathbb{M} 00'07		desc. node	11104 Aug 15 21:55	0° \mathbb{M} 02'58	
direct	11103 Sep 16 01:53	13° \mathbb{M} 44'14			11104 Aug 15 23:20	30° \mathbb{R} \mathcal{Q}	
morning max el	11103 Sep 30 08:05	21° \mathbb{M} 06'47	26°17'11	min. Earth dist.	11104 Aug 17 14:04	28° \mathcal{Q} 40'17	0.58762 AU
	11103 Oct 08 01:44	0° \mathcal{L}		morning rise	11104 Aug 21 13:27	25° \mathcal{Q} 56'09	
asc. node	11103 Oct 23 09:42	25° \mathcal{L} 11'31		direct	11104 Aug 27 19:28	24° \mathcal{Q} 11'02	
	11103 Oct 25 19:28	0° \mathbb{M}			11104 Sep 09 02:04	0° \mathbb{M}	
morning set	11103 Oct 28 21:49	6° \mathbb{M} 28'32		morning max el	11104 Sep 11 04:21	1° \mathbb{M} 56'23	27°24'59
					11104 Oct 01 10:11	0° \mathcal{L}	
superior conj	11103 Nov 04 17:55	21° \mathbb{M} 29'44	1°34'35	asc. node	11104 Oct 09 06:28	14° \mathcal{L} 49'02	
minimum elong	11103 Nov 04 16:36	21° \mathbb{M} 22'25	1°34'57	morning set	11104 Oct 12 05:46	20° \mathcal{L} 57'59	
max. Earth dist.	11103 Nov 05 12:01	23° \mathbb{M} 10'11	1.31668 AU		11104 Oct 16 09:58	0° \mathbb{M}	
	11103 Nov 08 14:31	0° \mathcal{X}					
evening rise	11103 Nov 11 16:27	6° \mathcal{X} 35'43		superior conj	11104 Oct 19 05:40	6° \mathbb{M} 15'39	1°24'16
	11103 Nov 24 00:07	0° \mathcal{Z}		minimum elong	11104 Oct 19 03:41	6° \mathbb{M} 04'34	1°24'22
desc. node	11103 Nov 25 22:09	3° \mathcal{Z} 10'16		max. Earth dist.	11104 Oct 18 21:11	5° \mathbb{M} 28'22	1.31395 AU
evening max el	11103 Dec 13 05:21	25° \mathcal{Z} 41'51	27°17'10	evening rise	11104 Oct 25 23:34	21° \mathbb{M} 05'54	
	11103 Dec 18 13:52	0° \approx			11104 Oct 30 06:39	0° \mathcal{X}	
retrograde	11103 Dec 27 02:49	2° \approx 56'09		desc. node	11104 Nov 11 19:18	22° \mathcal{X} 00'43	
evening set	11104 Jan 03 02:02	0° \approx 44'45			11104 Nov 17 13:36	0° \mathcal{Z}	
	11104 Jan 04 05:09	30° \mathbb{R} \mathcal{Z}		evening max el	11104 Nov 24 06:01	7° \mathcal{Z} 24'44	26°28'39
min. Earth dist.	11104 Jan 06 19:49	27° \mathcal{Z} 58'02	0.61143 AU	retrograde	11104 Dec 08 04:34	14° \mathcal{Z} 31'17	
inferior conj	11104 Jan 09 22:03	25° \mathcal{Z} 15'49	-3°01'53	evening set	11104 Dec 14 18:47	12° \mathcal{Z} 44'37	
minimum elong	11104 Jan 10 04:14	25° \mathcal{Z} 02'16	2°59'01	min. Earth dist.	11104 Dec 18 19:41	10° \mathcal{Z} 08'58	0.59017 AU
morning rise	11104 Jan 17 09:08	20° \mathcal{Z} 21'01		inferior conj	11104 Dec 21 23:38	7° \mathcal{Z} 44'16	-4°17'22
asc. node	11104 Jan 19 09:17	20° \mathcal{Z} 01'51		minimum elong	11104 Dec 22 07:42	7° \mathcal{Z} 28'50	4°14'24
direct	11104 Jan 19 12:50	20° \mathcal{Z} 01'46		morning rise	11104 Dec 29 23:23	3° \mathcal{Z} 10'57	
morning max el	11104 Jan 26 14:54	23° \mathcal{Z} 35'36	17°54'22	direct	11105 Jan 01 02:15	2° \mathcal{Z} 55'15	
	11104 Jan 31 17:30	0° \approx		asc. node	11105 Jan 05 06:24	3° \mathcal{Z} 59'38	
morning set	11104 Feb 11 05:57	18° \approx 04'40		morning max el	11105 Jan 09 01:27	6° \mathcal{Z} 50'20	18°21'17
	11104 Feb 17 20:15	0° \mathcal{X}			11105 Jan 23 18:53	0° \approx	
				morning set	11105 Jan 24 20:56	2° \approx 03'54	
superior conj	11104 Feb 21 19:09	6° \mathcal{X} 56'56	0°00'57				
minimum elong	11104 Feb 21 19:16	6° \mathcal{X} 57'25	0°01'15	superior conj	11105 Feb 03 02:21	19° \approx 26'15	0°35'54
behind sun begin	11104 Feb 21 11:01	6° \mathcal{X} 21'38		minimum elong	11105 Feb 03 04:47	19° \approx 37'25	0°35'59
behind sun end	11104 Feb 22 03:31	7° \mathcal{X} 33'06		desc. node	11105 Feb 07 18:51	27° \approx 50'41	
desc. node	11104 Feb 21 22:06	7° \mathcal{X} 09'43			11105 Feb 09 00:28	0° \mathcal{X}	
max. Earth dist.	11104 Feb 29 06:04	19° \mathcal{X} 31'29	1.42837 AU	max. Earth dist.	11105 Feb 10 15:19	2° \mathcal{X} 47'25	1.40826 AU
evening rise	11104 Mar 06 12:19	29° \mathcal{X} 35'28		evening rise	11105 Feb 15 03:39	10° \mathcal{X} 21'24	
	11104 Mar 06 18:33	0° \mathcal{Y}			11105 Feb 27 17:51	0° \mathcal{Y}	
	11104 Mar 27 01:24	0° \mathcal{B}		evening max el	11105 Mar 21 10:41	28° \mathcal{Y} 13'27	23°24'29
evening max el	11104 Apr 07 19:22	14° \mathcal{B} 26'22	22°04'17		11105 Mar 23 07:36	0° \mathcal{B}	
asc. node	11104 Apr 16 06:57	19° \mathcal{B} 56'48		retrograde	11105 Apr 01 01:22	4° \mathcal{B} 29'19	
retrograde	11104 Apr 17 06:11	20° \mathcal{B} 01'20		asc. node	11105 Apr 03 04:14	4° \mathcal{B} 08'02	
evening set	11104 Apr 21 20:45	18° \mathcal{B} 07'45		evening set	11105 Apr 06 03:22	2° \mathcal{B} 21'39	
inferior conj	11104 Apr 27 03:53	11° \mathcal{B} 47'43	2°50'49		11105 Apr 08 10:23	30° \mathbb{R} \mathcal{Y}	
minimum elong	11104 Apr 27 02:03	11° \mathcal{B} 54'05	2°50'06	min. Earth dist.	11105 Apr 11 00:05	26° \mathcal{Y} 38'55	0.68609 AU
min. Earth dist.	11104 Apr 27 03:17	11° \mathcal{B} 49'48	0.68675 AU	inferior conj	11105 Apr 11 12:57	25° \mathcal{Y} 54'38	2°22'47
morning rise	11104 May 02 07:13	5° \mathcal{B} 35'39		minimum elong	11105 Apr 11 10:47	26° \mathcal{Y} 02'05	2°21'59
direct	11104 May 07 02:54	3° \mathcal{B} 32'27		morning rise	11105 Apr 16 18:09	19° \mathcal{Y} 48'52	
morning max el	11104 May 16 15:17	9° \mathcal{B} 07'54	22°15'52	direct	11105 Apr 21 00:37	18° \mathcal{Y} 06'59	
desc. node	11104 May 19 23:14	12° \mathcal{B} 45'20		morning max el	11105 Apr 29 08:11	22° \mathcal{Y} 52'52	20°53'43
	11104 Jun 01 22:46	0° \mathbb{I}			11105 May 05 11:38	0° \mathcal{B}	
morning set	11104 Jun 18 23:14	26° \mathbb{I} 02'52		desc. node	11105 May 06 20:03	1° \mathcal{B} 45'35	
	11104 Jun 21 09:19	0° \mathcal{E}			11105 May 26 05:46	0° \mathbb{I}	
max. Earth dist.	11104 Jun 24 04:34	4° \mathcal{E} 39'41	1.41042 AU	morning set	11105 May 29 12:05	5° \mathbb{I} 03'17	
				max. Earth dist.	11105 Jun 06 09:29	17° \mathbb{I} 36'20	1.43073 AU
superior conj	11104 Jul 01 23:23	18° \mathcal{E} 08'06	-1°32'44				
minimum elong	11104 Jul 02 05:35	18° \mathcal{E} 35'43	1°32'35	superior conj	11105 Jun 13 08:15	29° \mathbb{I} 06'05	-1°58'56
	11104 Jul 08 11:44	0° \mathcal{Q}		minimum elong	11105 Jun 13 14:24	29° \mathbb{I} 32'05	1°59'07
evening rise	11104 Jul 12 07:55	7° \mathcal{Q} 09'52			11105 Jun 13 21:00	0° \mathcal{E}	
asc. node	11104 Jul 13 05:41	8° \mathcal{Q} 51'26		evening rise	11105 Jun 25 05:36	19° \mathcal{E} 48'39	
	11104 Jul 25 21:41	0° \mathbb{M}		asc. node	11105 Jun 30 02:37	28° \mathcal{E} 26'37	
evening max el	11104 Jul 28 08:22	2° \mathbb{M} 45'39	18°17'37		11105 Jul 01 00:05	0° \mathcal{Q}	
retrograde	11104 Aug 04 15:56	6° \mathbb{M} 27'09		evening max el	11105 Jul 11 20:32	15° \mathcal{Q} 47'07	18°04'24
evening set	11104 Aug 06 20:22	6° \mathbb{M} 08'07		retrograde	11105 Jul 18 11:20	19° \mathcal{Q} 10'45	
inferior conj	11104 Aug 14 05:37	1° \mathbb{M} 28'15	0°30'28	evening set	11105 Jul 20 23:46	18° \mathcal{Q} 41'09	

inferior conj	11105 Jul 27 15:43	13°  41'23	1°44'18	inferior conj	11106 Jul 10 18:01	26°  29'16	2°33'53
minimum elong	11105 Jul 27 18:20	13°  35'02	1°42'58	minimum elong	11106 Jul 10 20:33	26°  22'17	2°32'42
min. Earth dist.	11105 Jul 30 19:27	10°  38'42	0.61033 AU	min. Earth dist.	11106 Jul 13 10:02	23°  34'28	0.63246 AU
desc. node	11105 Aug 02 19:13	8°  09'39		morning rise	11106 Jul 16 23:46	20°  16'20	
morning rise	11105 Aug 03 10:14	7°  43'42		desc. node	11106 Jul 20 16:27	18°  13'41	
direct	11105 Aug 10 01:16	5°  30'59		direct	11106 Jul 23 16:37	17°  43'37	
morning max el	11105 Aug 24 07:25	13°  29'38	27°55'48	morning max el	11106 Aug 06 15:33	25°  45'48	27°48'20
	11105 Sep 06 12:29	0° 			11106 Aug 10 13:15	0° 	
	11105 Sep 23 19:59	0° 			11106 Aug 31 01:34	0° 	
morning set	11105 Sep 26 09:03	5°  10'31		morning set	11106 Sep 10 05:27	19°  00'47	
asc. node	11105 Sep 26 03:13	4°  40'22		asc. node	11106 Sep 12 23:59	24°  40'51	
max. Earth dist.	11105 Oct 02 04:55	17°  43'00	1.31623 AU	max. Earth dist.	11106 Sep 15 07:33	29°  33'17	1.32361 AU
					11106 Sep 15 12:34	0° 	
superior conj	11105 Oct 03 16:21	20°  45'17	1°08'32	superior conj	11106 Sep 18 00:04	5°  20'24	0°47'38
minimum elong	11105 Oct 03 14:06	20°  41'52	1°08'22	minimum elong	11106 Sep 17 22:05	5°  09'39	0°47'16
	11105 Oct 07 19:00	0° 		evening rise	11106 Sep 24 21:14	20°  18'51	
evening rise	11105 Oct 10 09:47	5°  41'56			11106 Sep 29 13:07	0° 	
	11105 Oct 23 00:50	0° 		desc. node	11106 Oct 16 13:48	26° 	
desc. node	11105 Oct 29 16:31	9°  56'55		evening max el	11106 Oct 18 09:28	28°  30'04	23°31'32
evening max el	11105 Nov 05 22:35	18°  16'22	25°09'32		11106 Oct 20 00:50	0° 	
retrograde	11105 Nov 19 19:02	25°  13'41		retrograde	11106 Oct 31 20:33	5°  12'46	
evening set	11105 Nov 25 12:59	23°  58'58		evening set	11106 Nov 05 07:02	4°  29'58	
min. Earth dist.	11105 Nov 30 10:38	21°  17'41	0.57036 AU	min. Earth dist.	11106 Nov 11 19:30	1°  24'36	0.55490 AU
inferior conj	11105 Dec 03 05:26	19°  27'02	-5°19'25	inferior conj	11106 Nov 13 15:03	0°  20'28	-5°48'01
minimum elong	11105 Dec 03 12:18	19°  15'38	5°17'38	minimum elong	11106 Nov 13 15:38	0°  19'36	5°47'28
morning rise	11105 Dec 11 13:52	15°  15'46			11106 Nov 14 04:57	30° 	
direct	11105 Dec 13 21:50	14°  59'58		morning rise	11106 Nov 22 02:02	26°  27'36	
morning max el	11105 Dec 23 02:37	19°  25'39	19°09'44	direct	11106 Nov 24 22:19	26°  07'46	
asc. node	11105 Dec 23 03:29	19°  27'45			11106 Dec 04 06:40	0° 	
	11105 Dec 31 01:13	0° 		morning max el	11106 Dec 05 14:59	1°  11'56	20°21'06
morning set	11106 Jan 08 21:17	16°  27'36		asc. node	11106 Dec 10 00:30	6°  11'19	
	11106 Jan 15 17:21	0° 			11106 Dec 23 14:46	0° 	
superior conj	11106 Jan 17 03:19	2°  44'47	1°03'07	morning set	11106 Dec 24 03:44	1°  06'20	
minimum elong	11106 Jan 17 06:21	2°  59'22	1°03'17	superior conj	11106 Dec 31 17:30	16°  39'44	1°22'24
max. Earth dist.	11106 Jan 23 21:37	15°  22'32	1.38622 AU	minimum elong	11106 Dec 31 20:01	16°  52'30	1°22'46
desc. node	11106 Jan 25 15:38	18°  30'03		max. Earth dist.	11107 Jan 06 05:07	27°  27'41	1.36468 AU
evening rise	11106 Jan 27 16:28	22°  03'39			11107 Jan 07 13:15	0° 	
	11106 Feb 01 09:24	0° 		evening rise	11107 Jan 10 00:48	4°  35'58	
	11106 Feb 21 16:12	0° 		desc. node	11107 Jan 12 12:28	9°  04'01	
evening max el	11106 Mar 04 00:24	12°  03'45	24°43'48		11107 Jan 25 07:50	0° 	
retrograde	11106 Mar 15 16:43	18°  52'27		evening max el	11107 Feb 14 13:53	25°  53'43	25°55'04
evening set	11106 Mar 21 06:45	16°  32'38			11107 Feb 19 09:04	0° 	
asc. node	11106 Mar 21 01:32	16°  43'31		retrograde	11107 Feb 27 03:16	3°  04'28	
min. Earth dist.	11106 Mar 25 19:31	11°  25'13	0.68114 AU	evening set	11107 Mar 05 05:14	0°  35'28	
inferior conj	11106 Mar 26 20:21	10°  02'45	1°45'15		11107 Mar 05 21:26	30° 	
minimum elong	11106 Mar 26 18:18	10°  09'34	1°44'30	asc. node	11107 Mar 07 22:51	27°  51'58	
morning rise	11106 Apr 01 06:02	4°  04'42		min. Earth dist.	11107 Mar 09 11:17	26°  03'08	0.67211 AU
direct	11106 Apr 04 23:59	2°  44'06		inferior conj	11107 Mar 11 00:06	24°  07'38	0°58'10
morning max el	11106 Apr 12 08:37	6°  49'48	19°44'03	minimum elong	11107 Mar 10 22:43	24°  11'59	0°57'46
desc. node	11106 Apr 23 16:50	21°  19'25		morning rise	11107 Mar 16 16:50	18°  19'04	
greatest brilliancy	11106 Apr 25 03:50	23°  26'35	-0.6m	direct	11107 Mar 19 23:21	17°  17'58	
	11106 Apr 29 13:55	0° 		morning max el	11107 Mar 26 16:40	20°  56'16	18°49'40
morning set	11106 May 08 11:33	13°  32'31			11107 Apr 03 00:05	0° 	
	11106 May 19 01:01	0° 		desc. node	11107 Apr 10 13:33	11°  17'22	
max. Earth dist.	11106 May 19 21:39	1°  21'40	1.44617 AU	morning set	11107 Apr 17 20:24	22°  35'38	
					11107 Apr 22 14:26	0° 	
superior conj	11106 May 24 16:57	9°  02'30	-2°12'33	max. Earth dist.	11107 May 02 15:13	15°  39'50	1.45508 AU
minimum elong	11106 May 24 18:47	9°  09'52	2°13'07	superior conj	11107 May 04 05:30	18°  09'56	-2°07'30
	11106 Jun 06 09:18	0° 		minimum elong	11107 May 03 23:52	17°  47'48	2°07'42
evening rise	11106 Jun 07 07:48	1°  35'03			11107 May 11 17:23	0° 	
asc. node	11106 Jun 16 23:38	17°  42'05		evening rise	11107 May 19 10:27	12°  21'10	
evening max el	11106 Jun 25 10:33	29°  09'31	18°10'01		11107 May 30 11:19	0° 	
	11106 Jun 26 08:11	0° 		asc. node	11107 Jun 03 20:43	6°  30'06	
retrograde	11106 Jul 01 19:11	2° 30'13		evening max el	11107 Jun 08 23:11	12° 43'52	18°33'45
evening set	11106 Jul 04 15:40	1° 47'27					
	11106 Jul 07 06:19	30°					

retrograde	11107 Jun 15 11:11	16°☿15'30		evening max el	11108 May 22 08:03	26°♊24'23	19°14'40
evening set	11107 Jun 18 15:43	15°☿18'01			11108 May 27 10:34	0°☿	
inferior conj	11107 Jun 24 08:21	9°☿43'16	3°03'01	retrograde	11108 May 29 07:51	0°☿19'34	
minimum elong	11107 Jun 24 10:00	9°☿38'18	3°02'10		11108 May 31 03:55	30°♊♊	
min. Earth dist.	11107 Jun 26 09:51	7°☿13'59	0.65187 AU	evening set	11108 Jun 01 20:48	29°♊06'33	
morning rise	11107 Jun 30 03:22	3°☿23'06		inferior conj	11108 Jun 07 07:16	23°♊16'53	3°15'40
direct	11107 Jul 06 15:55	0°☿40'47		minimum elong	11108 Jun 07 07:45	23°♊15'17	3°15'01
desc. node	11107 Jul 07 13:37	0°☿43'36		min. Earth dist.	11108 Jun 08 17:50	21°♊24'41	0.66744 AU
morning max el	11107 Jul 20 02:13	8°☿35'29	27°07'06	morning rise	11108 Jun 12 18:13	16°♊55'15	
	11107 Aug 05 18:25	0°♊		direct	11108 Jun 18 22:07	14°♊13'40	
	11107 Aug 23 10:42	0°♊		desc. node	11108 Jun 23 10:44	15°♊24'59	
morning set	11107 Aug 24 16:13	2°♊21'27		morning max el	11108 Jul 01 12:59	21°♊46'33	25°59'53
max. Earth dist.	11107 Aug 29 01:37	11°♊04'23	1.33603 AU		11108 Jul 08 16:58	0°☿	
asc. node	11107 Aug 30 20:45	14°♊45'54			11108 Jul 29 00:07	0°♊	
				morning set	11108 Aug 06 13:45	15°♊03'20	
superior conj	11107 Sep 02 02:39	19°♊27'48	0°21'52	max. Earth dist.	11108 Aug 10 09:04	22°♊13'42	1.35326 AU
minimum elong	11107 Sep 02 01:34	19°♊22'03	0°21'28		11108 Aug 14 07:57	0°♊	
	11107 Sep 07 01:17	0°♊					
evening rise	11107 Sep 09 07:58	4°♊50'55		superior conj	11108 Aug 15 21:31	3°♊09'33	-0°08'06
	11107 Sep 22 22:22	0°♊		minimum elong	11108 Aug 15 22:01	3°♊12'04	0°08'21
evening max el	11107 Sep 29 22:35	8°♊38'28	21°52'03	behind sun begin	11108 Aug 15 16:46	2°♊45'29	
desc. node	11107 Oct 03 11:07	11°♊38'21		behind sun end	11108 Aug 16 03:15	3°♊38'41	
retrograde	11107 Oct 12 11:22	14°♊52'33		asc. node	11108 Aug 16 17:31	4°♊51'29	
evening set	11107 Oct 15 11:18	14°♊32'21		evening rise	11108 Aug 23 15:55	19°♊12'06	
inferior conj	11107 Oct 24 10:01	10°♊35'00	-5°23'10		11108 Aug 29 01:27	0°♊	
minimum elong	11107 Oct 24 02:33	10°♊45'27	5°21'36	evening max el	11108 Sep 10 22:44	19°♊16'46	20°25'40
min. Earth dist.	11107 Oct 24 02:20	10°♊45'45	0.54665 AU	desc. node	11108 Sep 19 08:28	24°♊27'18	
morning rise	11107 Nov 01 19:05	6°♊47'43		retrograde	11108 Sep 21 23:32	24°♊45'29	
direct	11107 Nov 05 08:34	6°♊19'56		evening set	11108 Sep 24 01:01	24°♊34'50	
morning max el	11107 Nov 17 13:47	12°♊07'36	21°53'50	inferior conj	11108 Oct 03 02:57	20°♊38'03	-4°03'04
asc. node	11107 Nov 26 21:28	23°♊54'25		minimum elong	11108 Oct 02 17:10	20°♊52'20	3°59'55
	11107 Nov 30 12:17	0°♊		min. Earth dist.	11108 Oct 04 10:44	19°♊51'41	0.54762 AU
morning set	11107 Dec 08 13:51	15°♊53'03		morning rise	11108 Oct 11 08:45	16°♊35'16	
	11107 Dec 15 05:35	0°♊		direct	11108 Oct 15 17:24	15°♊54'19	
				morning max el	11108 Oct 29 03:01	22°♊25'04	23°39'59
superior conj	11107 Dec 15 17:04	1°♊00'26	1°34'14		11108 Nov 04 18:50	0°♊	
minimum elong	11107 Dec 15 18:34	1°♊08'18	1°34'46	asc. node	11108 Nov 12 18:22	12°♊22'25	
max. Earth dist.	11107 Dec 19 18:03	9°♊21'13	1.34572 AU		11108 Nov 21 17:50	0°♊	
evening rise	11107 Dec 24 01:10	17°♊49'34		morning set	11108 Nov 22 01:31	0°♊40'51	
desc. node	11107 Dec 30 09:23	29°♊28'20					
	11107 Dec 30 16:37	0°♊		superior conj	11108 Nov 28 22:53	15°♊36'43	1°39'14
	11108 Jan 19 14:11	0°♊		minimum elong	11108 Nov 28 23:12	15°♊38'26	1°39'50
evening max el	11108 Jan 28 03:23	9°♊36'31	26°51'03	max. Earth dist.	11108 Dec 01 14:36	21°♊18'26	1.33076 AU
retrograde	11108 Feb 10 08:19	16°♊58'39			11108 Dec 05 19:07	0°♊	
evening set	11108 Feb 16 20:58	14°♊25'05		evening rise	11108 Dec 06 13:51	1°♊34'16	
min. Earth dist.	11108 Feb 20 21:17	10°♊26'52	0.65919 AU	desc. node	11108 Dec 16 06:22	19°♊36'49	
inferior conj	11108 Feb 22 22:04	8°♊05'05	0°01'36		11108 Dec 22 14:54	0°♊	
minimum elong	11108 Feb 22 22:01	8°♊05'15	0°01'53	evening max el	11109 Jan 02 16:06	23°♊01'13	27°24'44
transit middle	11108 Feb 22 22:01	8°♊05'15	0°01'53		11109 Jan 20 08:26	0°♊	
transit begin	11108 Feb 22 19:05	8°♊13'48		retrograde	11109 Jan 23 07:09	0°♊25'08	
transit end	11108 Feb 23 00:57	7°♊56'42			11109 Jan 26 03:00	30°♊♊	
asc. node	11108 Feb 22 20:07	8°♊10'47		evening set	11109 Jan 30 03:41	27°♊53'43	
morning rise	11108 Feb 29 00:18	2°♊28'00		min. Earth dist.	11109 Feb 02 23:26	24°♊27'18	0.64271 AU
direct	11108 Mar 02 20:42	1°♊43'25		inferior conj	11109 Feb 05 11:42	21°♊48'08	-1°04'09
morning max el	11108 Mar 09 06:41	5°♊07'03	18°11'48	minimum elong	11109 Feb 05 13:42	21°♊42'51	1°02'52
	11108 Mar 26 11:08	0°♊		asc. node	11109 Feb 08 17:22	18°♊36'50	
desc. node	11108 Mar 27 10:16	1°♊33'15		morning rise	11109 Feb 12 01:37	16°♊24'59	
morning set	11108 Mar 28 07:31	2°♊58'55		direct	11109 Feb 14 13:38	15°♊53'15	
				morning max el	11109 Feb 20 23:52	19°♊13'21	17°50'56
					11109 Mar 01 01:22	0°♊	
superior conj	11108 Apr 12 12:18	27°♊09'30	-1°42'36	morning set	11109 Mar 09 23:12	14°♊45'38	
minimum elong	11108 Apr 12 02:50	26°♊32'23	1°41'57	desc. node	11109 Mar 14 06:56	22°♊01'15	
	11108 Apr 14 07:50	0°♊			11109 Mar 19 02:42	0°♊	
max. Earth dist.	11108 Apr 14 10:58	0°♊12'12	1.45665 AU				
evening rise	11108 Apr 28 14:05	22°♊13'05		superior conj	11109 Mar 23 07:23	6°♊48'44	-1°04'13
	11108 May 03 14:14	0°♊		minimum elong	11109 Mar 23 00:29	6°♊20'56	1°03'20
greatest brilliancy	11108 May 10 06:53	10°♊16'54	-0.7m	max. Earth dist.	11109 Mar 28 06:02	14°♊41'31	1.45078 AU
asc. node	11108 May 20 17:51	24°♊41'45					

	11109 Apr 07 02:07	0°♄		superior conj	11110 Mar 04 01:39	17°♄34'29	-0°22'04
evening rise	11109 Apr 08 03:07	1°♄35'56		minimum elong	11110 Mar 03 23:30	17°♄25'27	0°21'32
greatest brilliancy	11109 Apr 23 02:16	24°♄04'13	-0.6m	max. Earth dist.	11110 Mar 10 22:40	28°♄54'03	1.43822 AU
	11109 Apr 27 06:29	0°♄			11110 Mar 11 15:02	0°♄	
evening max el	11109 May 05 11:39	10°♄07'46	20°11'12	evening rise	11110 Mar 18 16:44	11°♄09'05	
asc. node	11109 May 07 15:00	12°♄05'35			11110 Mar 31 05:10	0°♄	
retrograde	11109 May 13 06:25	14°♄36'49		evening max el	11110 Apr 18 09:43	23°♄52'34	21°20'27
evening set	11109 May 17 04:35	13°♄07'56		asc. node	11110 Apr 24 12:13	28°♄27'15	
inferior conj	11109 May 22 11:51	7°♄05'04	3°14'50	retrograde	11110 Apr 27 04:51	29°♄02'18	
minimum elong	11109 May 22 11:16	7°♄07'05	3°14'14	evening set	11110 May 01 13:10	27°♄17'37	
min. Earth dist.	11109 May 23 08:08	5°♄56'04	0.67858 AU	inferior conj	11110 May 06 19:46	21°♄03'21	3°02'34
morning rise	11109 May 27 17:39	0°♄45'34		minimum elong	11110 May 06 18:19	21°♄08'26	3°01'53
	11109 May 28 15:33	30°♄♄		min. Earth dist.	11110 May 07 02:35	20°♄39'38	0.68514 AU
direct	11109 Jun 02 10:06	28°♄13'56		morning rise	11110 May 11 23:13	14°♄48'15	
	11109 Jun 07 18:30	0°♄		direct	11110 May 17 02:45	12°♄33'19	
desc. node	11109 Jun 10 07:45	1°♄49'25		morning max el	11110 May 27 08:44	18°♄38'33	23°06'36
morning max el	11109 Jun 13 22:44	5°♄08'58	24°36'23	desc. node	11110 May 28 04:41	19°♄29'54	
	11109 Jul 03 02:25	0°♄			11110 Jun 05 21:23	0°♄	
morning set	11109 Jul 19 17:36	26°♄54'58			11110 Jun 26 05:17	0°♄	
	11109 Jul 21 11:27	0°♄		morning set	11110 Jun 30 22:35	7°♄42'45	
max. Earth dist.	11109 Jul 23 07:58	3°♄20'24	1.37439 AU	max. Earth dist.	11110 Jul 05 04:57	14°♄56'20	1.39746 AU
superior conj	11109 Jul 30 05:30	16°♄18'10	-0°40'59	superior conj	11110 Jul 12 22:40	28°♄43'41	-1°14'32
minimum elong	11109 Jul 30 08:13	16°♄31'17	0°40'59	minimum elong	11110 Jul 13 03:47	29°♄07'15	1°14'21
asc. node	11109 Aug 03 14:19	24°♄54'05			11110 Jul 13 15:13	0°♄	
	11109 Aug 06 03:29	0°♄		asc. node	11110 Jul 21 11:09	14°♄49'21	
evening rise	11109 Aug 07 18:41	3°♄16'06		evening rise	11110 Jul 22 13:16	16°♄54'38	
	11109 Aug 23 20:37	0°♄			11110 Jul 29 14:04	0°♄	
evening max el	11109 Aug 24 12:52	0°♄41'48	19°19'19	evening max el	11110 Aug 07 14:37	12°♄50'49	18°34'11
retrograde	11109 Sep 02 21:02	5°♄20'37		retrograde	11110 Aug 15 12:36	16°♄48'56	
evening set	11109 Sep 04 17:13	5°♄10'34		evening set	11110 Aug 17 13:07	16°♄34'15	
desc. node	11109 Sep 06 05:49	4°♄47'54		desc. node	11110 Aug 24 03:10	13°♄03'20	
inferior conj	11109 Sep 13 08:00	1°♄02'04	-2°12'27	inferior conj	11110 Aug 25 09:23	12°♄06'09	-0°23'24
minimum elong	11109 Sep 13 02:09	1°♄11'41	2°10'14	minimum elong	11110 Aug 25 08:28	12°♄07'56	0°23'18
	11109 Sep 14 21:39	30°♄♄		min. Earth dist.	11110 Aug 28 15:30	9°♄37'13	0.57547 AU
min. Earth dist.	11109 Sep 15 22:36	29°♄19'33	0.55788 AU	morning rise	11110 Sep 02 00:20	6°♄53'51	
morning rise	11109 Sep 21 08:26	26°♄27'03		direct	11110 Sep 07 22:32	5°♄25'41	
direct	11109 Sep 26 12:57	25°♄25'39		morning max el	11110 Sep 22 06:10	12°♄58'24	26°50'10
	11109 Oct 07 16:21	0°♄			11110 Oct 05 16:31	0°♄	
morning max el	11109 Oct 10 14:18	2°♄32'07	25°24'35	asc. node	11110 Oct 17 12:00	20°♄50'30	
	11109 Oct 29 21:16	0°♄		morning set	11110 Oct 21 22:48	0°♄00'54	
asc. node	11109 Oct 30 15:12	1°♄24'18			11110 Oct 21 22:38	0°♄	
morning set	11109 Nov 06 13:04	15°♄25'12					
superior conj	11109 Nov 13 08:36	0°♄21'39	1°37'58	superior conj	11110 Oct 28 20:07	15°♄08'15	1°30'52
minimum elong	11109 Nov 13 07:49	0°♄17'19	1°38'28	minimum elong	11110 Oct 28 18:28	14°♄59'04	1°31'09
	11109 Nov 13 04:40	0°♄		max. Earth dist.	11110 Oct 29 02:42	15°♄44'57	1.31495 AU
max. Earth dist.	11109 Nov 14 18:24	3°♄27'42	1.32046 AU	evening rise	11110 Nov 04 16:09	0°♄06'00	
evening rise	11109 Nov 20 11:45	15°♄42'21			11110 Nov 04 15:01	0°♄	
	11109 Nov 27 19:00	0°♄		desc. node	11110 Nov 20 00:34	28°♄36'54	
desc. node	11109 Dec 03 03:25	9°♄22'47			11110 Nov 20 21:51	0°♄	
	11109 Dec 17 13:05	0°♄		evening max el	11110 Dec 05 07:29	18°♄08'51	27°00'45
evening max el	11109 Dec 23 02:23	5°♄56'20	27°29'29	retrograde	11110 Dec 19 05:32	25°♄19'03	
retrograde	11110 Jan 05 22:40	13°♄14'47		evening set	11110 Dec 26 02:09	23°♄17'26	
evening set	11110 Jan 12 22:36	10°♄53'46		min. Earth dist.	11110 Dec 29 21:58	20°♄37'00	0.60241 AU
min. Earth dist.	11110 Jan 16 16:04	7°♄54'31	0.62343 AU	inferior conj	11111 Jan 02 01:46	18°♄00'32	-3°34'33
inferior conj	11110 Jan 19 14:04	5°♄09'36	-2°17'33	minimum elong	11111 Jan 02 08:57	17°♄45'39	3°31'29
minimum elong	11110 Jan 19 18:41	4°♄58'41	2°15'10	morning rise	11111 Jan 09 18:27	13°♄14'15	
morning rise	11110 Jan 26 17:15	0°♄03'14		direct	11111 Jan 11 21:19	12°♄56'51	
asc. node	11110 Jan 26 14:35	0°♄05'30		asc. node	11111 Jan 13 11:44	13°♄07'10	
	11110 Jan 26 21:16	30°♄♄		morning max el	11111 Jan 19 07:11	16°♄38'35	18°03'15
direct	11110 Jan 28 23:05	29°♄40'29			11111 Jan 28 16:27	0°♄	
	11110 Jan 31 00:18	0°♄		morning set	11111 Feb 03 21:54	11°♄19'02	
morning max el	11110 Feb 04 17:09	3°♄06'51	17°47'42	superior conj	11111 Feb 13 20:26	29°♄29'25	0°16'39
morning set	11110 Feb 20 14:06	27°♄38'42		minimum elong	11111 Feb 13 21:46	29°♄35'23	0°16'50
	11110 Feb 21 22:02	0°♄			11111 Feb 14 03:20	0°♄	
desc. node	11110 Mar 01 03:36	12°♄37'11		desc. node	11111 Feb 16 00:19	3°♄17'34	

max. Earth dist.	11111 Feb 21 11:17	12° H 36'09	1.42028 AU	desc. node	11112 Feb 02 21:04	23° \approx 58'26	
evening rise	11111 Feb 26 20:35	21° H 24'27		max. Earth dist.	11112 Feb 03 19:24	25° \approx 36'22	1.39897 AU
	11111 Mar 04 07:53	0° Y			11112 Feb 06 08:31	0° H	
	11111 Mar 25 10:46	0° B		evening rise	11112 Feb 07 21:05	2° H 34'38	
evening max el	11111 Apr 01 03:05	7° B 39'12	22°38'06		11112 Feb 25 14:16	0° Y	
retrograde	11111 Apr 11 01:33	13° B 31'30		evening max el	11112 Mar 13 17:25	21° Y 27'39	23°58'37
asc. node	11111 Apr 11 09:29	13° B 30'58		retrograde	11112 Mar 24 19:15	27° Y 58'37	
evening set	11111 Apr 15 21:00	11° B 31'40		asc. node	11112 Mar 28 06:48	27° Y 02'15	
inferior conj	11111 Apr 21 04:59	5° B 08'27	2°40'06	evening set	11112 Mar 30 02:28	25° Y 45'11	
minimum elong	11111 Apr 21 02:58	5° B 15'28	2°39'19	min. Earth dist.	11112 Apr 03 19:30	20° Y 17'46	0.68456 AU
min. Earth dist.	11111 Apr 20 23:06	5° B 28'54	0.68708 AU	inferior conj	11112 Apr 04 13:35	19° Y 16'22	2°07'59
	11111 Apr 25 06:46	30° R Y		minimum elong	11112 Apr 04 11:24	19° Y 23'45	2°07'12
morning rise	11111 Apr 26 08:49	28° Y 59'08		morning rise	11112 Apr 09 20:24	13° Y 13'56	
direct	11111 Apr 30 22:54	27° Y 04'50		direct	11112 Apr 13 21:24	11° Y 41'25	
	11111 May 07 09:48	0° B		morning max el	11112 Apr 21 18:23	16° Y 08'35	20°22'20
morning max el	11111 May 09 22:16	2° B 17'44	21°39'40	desc. node	11112 Apr 30 22:18	27° Y 21'34	
desc. node	11111 May 15 01:31	8° B 05'49			11112 May 02 19:45	0° B	
	11111 May 30 19:17	0° II		morning set	11112 May 20 06:21	26° B 00'57	
morning set	11111 Jun 11 01:27	17° II 20'09			11112 May 22 19:56	0° II	
max. Earth dist.	11111 Jun 17 06:39	27° II 24'50	1.41961 AU	max. Earth dist.	11112 May 29 15:02	10° II 44'45	1.43804 AU
	11111 Jun 18 19:59	0° E					
superior conj	11111 Jun 24 20:33	10° E 16'22	-1°44'56	superior conj	11112 Jun 04 19:07	20° II 47'28	-2°06'39
minimum elong	11111 Jun 25 03:08	10° E 45'01	1°44'54	minimum elong	11112 Jun 05 00:02	21° II 07'49	2°07'03
evening rise	11111 Jul 05 19:55	29° E 58'51			11112 Jun 10 06:57	0° E	
	11111 Jul 05 20:10	0° O		evening rise	11112 Jun 17 09:56	12° E 16'56	
asc. node	11111 Jul 08 08:04	4° O 33'31		asc. node	11112 Jun 24 05:04	24° E 01'17	
evening max el	11111 Jul 22 00:05	25° O 35'39	18°09'34		11112 Jun 27 21:05	0° O	
retrograde	11111 Jul 28 23:05	29° O 07'45		evening max el	11112 Jul 04 13:23	8° O 46'44	18°04'29
evening set	11111 Jul 31 06:55	28° O 44'31		retrograde	11112 Jul 11 00:29	12° O 07'46	
inferior conj	11111 Aug 07 08:22	23° O 55'35	1°04'57	evening set	11112 Jul 13 16:15	11° O 32'55	
minimum elong	11111 Aug 07 10:20	23° O 51'11	1°03'50	inferior conj	11112 Jul 20 01:55	6° O 24'57	2°08'04
min. Earth dist.	11111 Aug 10 15:47	20° O 58'48	0.59723 AU	minimum elong	11112 Jul 20 04:39	6° O 17'56	2°06'46
desc. node	11111 Aug 11 00:27	20° O 40'33		min. Earth dist.	11112 Jul 23 01:11	3° O 23'00	0.61992 AU
morning rise	11111 Aug 14 10:36	18° O 11'22		morning rise	11112 Jul 26 14:47	0° O 19'15	
direct	11111 Aug 20 21:14	16° O 14'15			11112 Jul 27 02:02	30° R E	
morning max el	11111 Sep 04 05:28	24° O 05'34	27°42'58	desc. node	11112 Jul 27 21:42	29° E 29'33	
	11111 Sep 09 13:59	0° H		direct	11112 Aug 02 07:11	27° E 57'01	
	11111 Sep 28 23:07	0° A			11112 Aug 09 00:17	0° O	
asc. node	11111 Oct 04 08:46	10° A 34'17		morning max el	11112 Aug 16 11:17	5° O 59'02	27°57'14
morning set	11111 Oct 06 05:01	14° A 23'20			11112 Sep 03 14:43	0° H	
max. Earth dist.	11111 Oct 12 11:54	28° A 01'30	1.31432 AU	morning set	11112 Sep 19 05:43	28° H 27'41	
					11112 Sep 19 23:41	0° A	
superior conj	11111 Oct 13 07:37	29° A 51'04	1°18'14	asc. node	11112 Sep 20 05:33	0° A 30'25	
minimum elong	11111 Oct 13 05:28	29° A 39'04	1°18'13	max. Earth dist.	11112 Sep 24 18:03	10° A 07'02	1.31869 AU
	11111 Oct 13 09:13	0° M					
evening rise	11111 Oct 20 00:50	14° M 38'56		superior conj	11112 Sep 26 17:18	14° A 25'15	1°00'18
	11111 Oct 27 14:56	0° J		minimum elong	11112 Sep 26 15:06	14° A 13'08	1°00'01
desc. node	11111 Nov 06 21:46	17° J 06'16		evening rise	11112 Oct 03 11:49	29° A 16'06	
evening max el	11111 Nov 17 04:44	29° J 29'06	25°58'14		11112 Oct 03 20:00	0° M	
	11111 Nov 17 17:59	0° B			11112 Oct 20 08:37	0° J	
retrograde	11111 Dec 01 02:27	6° B 31'37		desc. node	11112 Oct 23 19:02	4° J 33'56	
evening set	11111 Dec 07 09:49	4° B 57'45		evening max el	11112 Oct 28 18:02	10° J 01'11	24°29'11
min. Earth dist.	11111 Dec 11 17:25	2° B 22'20	0.58139 AU	retrograde	11112 Nov 11 11:53	16° J 54'21	
inferior conj	11111 Dec 14 19:11	0° B 10'14	-4°46'24	evening set	11112 Nov 16 17:38	15° J 53'30	
minimum elong	11111 Dec 15 03:17	29° J 55'41	4°43'47	min. Earth dist.	11112 Nov 22 05:15	13° J 04'17	0.56298 AU
	11111 Dec 15 00:53	30° R J		inferior conj	11112 Nov 24 16:11	11° J 31'52	-5°37'02
morning rise	11111 Dec 22 23:18	25° J 46'35		minimum elong	11112 Nov 24 21:00	11° J 24'17	5°35'56
direct	11111 Dec 25 03:42	25° J 31'11		morning rise	11112 Dec 03 02:31	7° J 29'43	
asc. node	11111 Dec 31 08:52	27° J 44'49		direct	11112 Dec 05 14:43	7° J 12'51	
morning max el	11112 Jan 02 14:13	29° J 37'46	18°39'15	morning max el	11112 Dec 15 10:24	11° J 53'54	19°37'24
	11112 Jan 02 23:11	0° B		asc. node	11112 Dec 17 05:55	13° J 47'15	
morning set	11112 Jan 18 17:22	25° B 30'24			11112 Dec 27 17:53	0° B	
	11112 Jan 21 00:51	0° \approx		morning set	11113 Jan 01 20:41	10° B 01'39	
superior conj	11112 Jan 27 11:51	12° \approx 21'55	0°48'24	superior conj	11113 Jan 09 19:02	25° B 58'01	1°12'14
minimum elong	11112 Jan 27 14:43	12° \approx 35'18	0°48'30	minimum elong	11113 Jan 09 21:57	26° B 12'20	1°12'28
					11113 Jan 11 20:38	0° \approx	

max. Earth dist.	11113 Jan 16 01:20	7° \approx 55'48	1.37680 AU	max. Earth dist.	11113 Dec 29 10:13	19° \approx 51'13	1.35616 AU
evening rise	11113 Jan 19 18:37	14° \approx 39'27		evening rise	11114 Jan 02 10:12	27° \approx 30'13	
desc. node	11113 Jan 19 17:55	14° \approx 36'21			11114 Jan 03 18:37	0° \approx	
	11113 Jan 28 21:44	0° \approx		desc. node	11114 Jan 06 14:49	5° \approx 06'39	
	11113 Feb 19 08:49	0° \approx			11114 Jan 22 06:01	0° \approx	
evening max el	11113 Feb 24 06:44	5° \approx 17'54	25°15'24	evening max el	11114 Feb 06 20:18	19° \approx 05'56	26°21'16
retrograde	11113 Mar 08 08:52	12° \approx 18'08		retrograde	11114 Feb 19 17:19	26° \approx 23'13	
evening set	11113 Mar 14 04:00	9° \approx 53'47		evening set	11114 Feb 25 23:52	23° \approx 51'50	
asc. node	11113 Mar 15 04:06	8° \approx 58'37		min. Earth dist.	11114 Mar 02 03:24	19° \approx 33'53	0.66701 AU
min. Earth dist.	11113 Mar 18 13:42	5° \approx 01'19	0.67781 AU	asc. node	11114 Mar 02 01:22	19° \approx 40'00	
inferior conj	11113 Mar 19 19:42	3° \approx 23'48	1°26'26	inferior conj	11114 Mar 03 21:17	17° \approx 26'20	0°35'22
minimum elong	11113 Mar 19 17:51	3° \approx 29'48	1°25'49	minimum elong	11114 Mar 03 20:22	17° \approx 29'07	0°35'13
	11113 Mar 22 13:53	30° \approx 11'11		morning rise	11114 Mar 09 17:43	11° \approx 42'07	
morning rise	11113 Mar 25 08:04	27° \approx 29'34		direct	11114 Mar 12 19:43	10° \approx 48'29	
direct	11113 Mar 28 20:54	26° \approx 17'46		morning max el	11114 Mar 19 09:03	14° \approx 19'24	18°31'27
	11113 Apr 04 17:55	0° \approx			11114 Mar 31 00:36	0° \approx	
morning max el	11113 Apr 04 22:14	0° \approx 10'33	19°18'52	desc. node	11114 Apr 04 15:47	7° \approx 13'04	
desc. node	11113 Apr 17 19:03	17° \approx 06'36		morning set	11114 Apr 09 01:49	14° \approx 10'52	
greatest brilliancy	11113 Apr 17 17:48	17° \approx 01'56	-0.7m		11114 Apr 19 03:17	0° \approx	
	11113 Apr 26 07:03	0° \approx					
morning set	11113 Apr 29 06:53	4° \approx 36'19		superior conj	11114 Apr 25 02:11	9° \approx 18'52	-1°59'09
max. Earth dist.	11113 May 12 05:16	24° \approx 44'04	1.45083 AU	minimum elong	11114 Apr 24 18:05	8° \approx 47'14	1°58'59
				max. Earth dist.	11114 Apr 24 23:47	9° \approx 09'29	1.45668 AU
superior conj	11113 May 15 18:10	0° \approx 19'48	-2°12'56		11114 May 08 06:21	0° \approx	
minimum elong	11113 May 15 16:53	0° \approx 14'43	2°13'27	evening rise	11114 May 10 18:50	3° \approx 59'22	
	11113 May 15 13:10	0° \approx		greatest brilliancy	11114 May 19 13:29	17° \approx 52'12	-0.8m
evening rise	11113 May 30 02:26	23° \approx 37'54			11114 May 27 16:59	0° \approx	
	11113 Jun 02 22:38	0° \approx		asc. node	11114 May 28 23:11	1° \approx 40'16	
asc. node	11113 Jun 11 02:06	13° \approx 06'03		evening max el	11114 Jun 01 14:28	5° \approx 53'18	18°49'10
evening max el	11113 Jun 18 03:06	22° \approx 14'53	18°17'58	retrograde	11114 Jun 08 06:27	9° \approx 33'12	
retrograde	11113 Jun 24 12:14	25° \approx 38'46		evening set	11114 Jun 11 14:32	8° \approx 29'11	
evening set	11113 Jun 27 12:01	24° \approx 50'04		inferior conj	11114 Jun 17 04:11	2° \approx 48'11	3°10'10
inferior conj	11113 Jul 03 09:48	19° \approx 24'51	2°48'28	minimum elong	11114 Jun 17 05:21	2° \approx 44'33	3°09'25
minimum elong	11113 Jul 03 12:01	19° \approx 18'29	2°47'26	min. Earth dist.	11114 Jun 18 23:23	0° \approx 33'27	0.65908 AU
min. Earth dist.	11113 Jul 05 19:55	16° \approx 38'44	0.64112 AU		11114 Jun 19 10:24	30° \approx 11'11	
morning rise	11113 Jul 09 10:39	13° \approx 07'48		morning rise	11114 Jun 22 19:26	26° \approx 12'01	
desc. node	11113 Jul 14 18:54	10° \approx 35'12		direct	11114 Jun 29 04:54	23° \approx 14'30	
direct	11113 Jul 16 02:22	10° \approx 29'21		desc. node	11114 Jul 01 16:01	24° \approx 10'43	
morning max el	11113 Jul 29 20:49	18° \approx 30'51	27°34'28		11114 Jul 10 18:30	0° \approx	
	11113 Aug 08 13:05	0° \approx		morning max el	11114 Jul 12 07:31	1° \approx 30'33	26°41'01
	11113 Aug 27 13:04	0° \approx			11114 Aug 02 15:34	0° \approx	
morning set	11113 Sep 02 22:22	12° \approx 06'18		morning set	11114 Aug 17 03:56	25° \approx 11'36	
asc. node	11113 Sep 07 02:18	20° \approx 33'19			11114 Aug 19 15:52	0° \approx	
max. Earth dist.	11113 Sep 07 17:08	21° \approx 50'39	1.32820 AU	max. Earth dist.	11114 Aug 21 06:29	3° \approx 10'21	1.34283 AU
				asc. node	11114 Aug 24 23:04	10° \approx 39'14	
superior conj	11113 Sep 10 23:05	28° \approx 44'03	0°37'16				
minimum elong	11113 Sep 10 21:24	28° \approx 35'00	0°36'52	superior conj	11114 Aug 25 22:43	12° \approx 41'39	0°09'38
	11113 Sep 11 13:13	0° \approx		minimum elong	11114 Aug 25 22:13	12° \approx 39'02	0°09'16
evening rise	11113 Sep 17 23:09	13° \approx 51'12		behind sun begin	11114 Aug 25 17:27	12° \approx 14'17	
	11113 Sep 26 00:28	0° \approx		behind sun end	11114 Aug 26 02:59	13° \approx 03'49	
evening max el	11113 Oct 10 04:38	20° \approx 07'46	22°48'29	evening rise	11114 Sep 02 08:56	28° \approx 19'17	
desc. node	11113 Oct 10 16:21	20° \approx 35'48			11114 Sep 03 04:15	0° \approx	
retrograde	11113 Oct 23 08:32	26° \approx 40'44			11114 Sep 21 11:31	0° \approx	
evening set	11113 Oct 27 03:29	26° \approx 09'24		evening max el	11114 Sep 21 21:47	0° \approx 25'46	21°13'08
min. Earth dist.	11113 Nov 03 13:09	22° \approx 48'10	0.55029 AU	desc. node	11114 Sep 27 13:39	4° \approx 43'26	
inferior conj	11113 Nov 04 18:26	22° \approx 06'19	-5°44'47	retrograde	11114 Oct 03 20:16	6° \approx 21'17	
minimum elong	11113 Nov 04 15:21	22° \approx 10'44	5°44'08	evening set	11114 Oct 06 08:37	6° \approx 06'35	
morning rise	11113 Nov 13 04:51	18° \approx 17'39		inferior conj	11114 Oct 15 10:40	2° \approx 11'28	-4°54'58
direct	11113 Nov 16 07:51	17° \approx 55'02		minimum elong	11114 Oct 15 01:13	2° \approx 24'45	4°52'31
morning max el	11113 Nov 27 16:53	23° \approx 18'06	20°58'14	min. Earth dist.	11114 Oct 15 20:17	1° \approx 57'57	0.54595 AU
	11113 Dec 03 10:33	0° \approx			11114 Oct 19 12:16	30° \approx 11'11	
asc. node	11113 Dec 04 02:54	0° \approx 57'38		morning rise	11114 Oct 23 18:25	28° \approx 12'09	
morning set	11113 Dec 17 04:54	24° \approx 43'49		direct	11114 Oct 27 16:16	27° \approx 14'15	
	11113 Dec 19 17:30	0° \approx			11114 Nov 04 07:35	0° \approx	
				morning max el	11114 Nov 09 10:36	3° \approx 53'46	22°38'02
superior conj	11113 Dec 24 13:34	10° \approx 30'43	1°28'17	asc. node	11114 Nov 20 23:50	19° \approx 10'02	
minimum elong	11113 Dec 24 15:42	10° \approx 31'53	1°28'44		11114 Nov 27 00:27	0° \approx	

morning set	11114 Dec 01 15:51	9°♌30'59		morning set	11115 Nov 16 03:41	24°♍18'05	
					11115 Nov 18 18:55	0°♌	
superior conj	11114 Dec 08 16:03	24°♌32'00	1°37'08	superior conj	11115 Nov 22 23:48	9°♌12'39	1°39'25
minimum elong	11114 Dec 08 17:03	24°♌37'19	1°37'44	minimum elong	11115 Nov 22 23:37	9°♌11'44	1°40'01
	11114 Dec 11 06:13	0°♌		max. Earth dist.	11115 Nov 25 02:33	13°♌48'21	1.32580 AU
max. Earth dist.	11114 Dec 12 02:24	1°♌44'51	1.33885 AU	evening rise	11115 Nov 30 09:09	24°♌53'08	
evening rise	11114 Dec 16 16:12	10°♌57'39			11115 Dec 02 22:38	0°♌	
desc. node	11114 Dec 24 11:46	25°♌24'42		desc. node	11115 Dec 11 08:46	15°♌24'43	
	11114 Dec 27 04:13	0°♌			11115 Dec 20 16:35	0°♌	
	11115 Jan 17 17:46	0°♌		evening max el	11116 Jan 02 21:50	15°♌56'36	27°30'39
evening max el	11115 Jan 20 09:51	2°♌42'47	27°08'41	retrograde	11116 Jan 16 15:13	23°♌18'15	
retrograde	11115 Feb 02 19:39	10°♌05'58		evening set	11116 Jan 23 14:06	20°♌50'05	
evening set	11115 Feb 09 12:02	7°♌32'45		min. Earth dist.	11116 Jan 27 08:30	17°♌36'13	0.63481 AU
min. Earth dist.	11115 Feb 13 10:21	3°♌48'16	0.65254 AU	inferior conj	11116 Jan 30 01:15	14°♌53'08	-1°34'28
inferior conj	11115 Feb 15 16:01	1°♌18'12	-0°25'12	minimum elong	11116 Jan 30 04:19	14°♌45'25	1°32'44
minimum elong	11115 Feb 15 16:45	1°♌16'10	0°24'32	asc. node	11116 Feb 03 19:51	10°♌41'01	
asc. node	11115 Feb 16 22:38	29°♌53'46		morning rise	11116 Feb 05 20:40	9°♌36'50	
	11115 Feb 16 20:19	30°♌		direct	11116 Feb 08 05:52	9°♌09'16	
morning rise	11115 Feb 21 22:56	25°♌46'27		morning max el	11116 Feb 14 18:19	12°♌30'30	17°47'27
direct	11115 Feb 24 15:37	25°♌07'39			11116 Feb 26 19:14	0°♌	
morning max el	11115 Mar 03 00:40	28°♌28'26	18°00'50	morning set	11116 Mar 02 03:54	7°♌28'49	
	11115 Mar 04 11:15	0°♌		desc. node	11116 Mar 08 09:10	18°♌06'33	
morning set	11115 Mar 21 01:31	25°♌11'13					
desc. node	11115 Mar 22 12:28	27°♌34'32		superior conj	11116 Mar 14 16:26	28°♌35'37	-0°46'18
	11115 Mar 24 00:02	0°♌		minimum elong	11116 Mar 14 11:33	28°♌15'39	0°45'31
superior conj	11115 Apr 04 12:09	18°♌29'41	-1°27'23		11116 Mar 15 13:06	0°♌	
minimum elong	11115 Apr 04 03:10	17°♌54'08	1°26'32	max. Earth dist.	11116 Mar 20 14:49	8°♌10'00	1.44619 AU
max. Earth dist.	11115 Apr 07 20:02	23°♌44'11	1.45506 AU	evening rise	11116 Mar 30 02:09	22°♌57'40	
	11115 Apr 11 20:13	0°♌			11116 Apr 03 17:00	0°♌	
evening rise	11115 Apr 20 14:45	13°♌34'58			11116 Apr 24 22:16	0°♌	
	11115 May 01 08:30	0°♌		evening max el	11116 Apr 27 22:31	3°♌19'37	20°39'11
greatest brilliancy	11115 May 04 04:23	4°♌13'27	-0.7m	asc. node	11116 May 01 17:30	6°♌32'40	
asc. node	11115 May 15 20:19	19°♌33'20		retrograde	11116 May 06 03:00	8°♌05'26	
evening max el	11115 May 15 21:19	19°♌35'51	19°36'54	evening set	11116 May 10 05:25	6°♌29'34	
retrograde	11115 May 23 04:10	23°♌43'50		inferior conj	11116 May 15 12:06	0°♌21'22	3°10'56
evening set	11115 May 26 21:02	22°♌23'54		minimum elong	11116 May 15 11:07	0°♌24'47	3°10'18
inferior conj	11115 Jun 01 05:49	16°♌28'26	3°16'48		11116 May 15 18:18	30°♌	
minimum elong	11115 Jun 01 05:50	16°♌28'23	3°16'11	min. Earth dist.	11116 May 16 02:27	29°♌31'54	0.68196 AU
min. Earth dist.	11115 Jun 02 10:08	14°♌54'23	0.67282 AU	morning rise	11116 May 20 16:35	24°♌03'34	
morning rise	11115 Jun 06 14:16	10°♌07'38		direct	11116 May 26 03:32	21°♌38'41	
direct	11115 Jun 12 13:37	7°♌29'27		desc. node	11116 Jun 04 10:04	26°♌33'06	
desc. node	11115 Jun 18 13:05	9°♌33'27		morning max el	11116 Jun 06 03:34	28°♌13'21	23°58'25
morning max el	11115 Jun 24 17:47	14°♌47'07	25°25'44		11116 Jun 07 20:11	0°♌	
	11115 Jul 07 04:25	0°♌			11116 Jun 29 21:14	0°♌	
	11115 Jul 26 11:48	0°♌		morning set	11116 Jul 11 13:17	18°♌59'12	
morning set	11115 Jul 30 18:30	7°♌33'07		max. Earth dist.	11116 Jul 15 07:36	25°♌33'07	1.38419 AU
max. Earth dist.	11115 Aug 03 09:59	14°♌16'07	1.36198 AU		11116 Jul 17 19:01	0°♌	
				superior conj	11116 Jul 22 15:35	9°♌01'27	-0°55'19
superior conj	11115 Aug 09 13:23	26°♌10'14	-0°21'48	minimum elong	11116 Jul 22 19:21	9°♌19'16	0°55'12
minimum elong	11115 Aug 09 14:45	26°♌17'03	0°21'56	asc. node	11116 Jul 28 16:40	20°♌43'47	
	11115 Aug 11 11:10	0°♌		evening rise	11116 Jul 31 14:44	26°♌28'24	
asc. node	11115 Aug 11 19:51	0°♌43'56			11116 Aug 02 10:01	0°♌	
evening rise	11115 Aug 17 15:00	12°♌34'00		evening max el	11116 Aug 16 23:14	23°♌06'35	18°57'25
	11115 Aug 26 18:51	0°♌		retrograde	11116 Aug 25 15:54	27°♌27'00	
evening max el	11115 Sep 04 03:49	11°♌22'38	19°54'43	evening set	11116 Aug 27 13:03	27°♌15'36	
retrograde	11115 Sep 14 10:53	16°♌29'43		desc. node	11116 Aug 31 08:19	25°♌50'37	
desc. node	11115 Sep 14 10:58	16°♌29'43		inferior conj	11116 Sep 04 20:21	22°♌59'00	-1°24'25
evening set	11115 Sep 16 08:34	16°♌20'00		minimum elong	11116 Sep 04 16:44	23°♌05'21	1°23'08
inferior conj	11115 Sep 25 07:09	12°♌19'15	-3°17'46	min. Earth dist.	11116 Sep 07 19:22	20°♌54'57	0.56461 AU
minimum elong	11115 Sep 24 22:34	12°♌32'19	3°14'41	morning rise	11116 Sep 12 17:12	18°♌07'42	
min. Earth dist.	11115 Sep 27 05:31	11°♌08'45	0.55098 AU	direct	11116 Sep 18 05:24	16°♌55'47	
morning rise	11115 Oct 03 11:09	8°♌04'37		morning max el	11116 Oct 02 10:48	24°♌14'44	26°04'25
direct	11115 Oct 08 04:22	7°♌16'02			11116 Oct 07 17:23	0°♌	
morning max el	11115 Oct 21 21:54	14°♌02'12	24°25'50	asc. node	11116 Oct 24 17:32	26°♌57'47	
	11115 Nov 03 08:24	0°♌			11116 Oct 26 06:33	0°♌	
asc. node	11115 Nov 07 20:42	7°♌44'41					

morning set	11116 Oct 30 14:41	8°♄59'24		morning max el	11117 Sep 14 05:56	4°♄58'00	27°17'04
					11117 Oct 02 16:43	0°♄	
superior conj	11116 Nov 06 10:30	23°♄58'56	1°35'39	asc. node	11117 Oct 11 14:20	16°♄32'26	
minimum elong	11116 Nov 06 09:19	23°♄52'22	1°36'04	morning set	11117 Oct 14 23:11	23°♄30'25	
max. Earth dist.	11116 Nov 07 08:39	26°♄01'36	1.31746 AU		11117 Oct 17 23:27	0°♄	
	11116 Nov 09 03:56	0°♄					
evening rise	11116 Nov 13 10:05	9°♄08'14		superior conj	11117 Oct 21 22:18	8°♄45'07	1°26'11
	11116 Nov 24 07:00	0°♄		minimum elong	11117 Oct 21 20:23	8°♄34'28	1°26'20
desc. node	11116 Nov 27 05:51	4°♄58'19		max. Earth dist.	11117 Oct 21 17:39	8°♄19'14	1.31405 AU
evening max el	11116 Dec 15 06:00	28°♄33'52	27°21'27	evening rise	11117 Oct 28 16:36	23°♄36'45	
	11116 Dec 16 20:00	0°♄			11117 Oct 31 18:00	0°♄	
retrograde	11116 Dec 29 03:20	5°♄49'37		desc. node	11117 Nov 14 03:01	23°♄55'06	
evening set	11117 Jan 05 02:58	3°♄35'20			11117 Nov 18 08:15	0°♄	
min. Earth dist.	11117 Jan 08 20:26	0°♄45'44	0.61459 AU	evening max el	11117 Nov 27 07:55	10°♄24'21	26°38'02
	11117 Jan 09 17:21	30°♄		retrograde	11117 Dec 11 06:32	17°♄31'54	
inferior conj	11117 Jan 11 21:47	28°♄02'12	-2°50'11	evening set	11117 Dec 17 22:39	15°♄41'11	
minimum elong	11117 Jan 12 03:34	27°♄49'15	2°47'24	min. Earth dist.	11117 Dec 21 21:56	13°♄04'40	0.59331 AU
morning rise	11117 Jan 19 06:50	23°♄04'23		inferior conj	11117 Dec 25 02:05	10°♄36'25	-4°06'29
asc. node	11117 Jan 20 17:03	22°♄46'47		minimum elong	11117 Dec 25 10:00	10°♄20'57	4°03'26
direct	11117 Jan 21 10:56	22°♄44'23		morning rise	11118 Jan 02 00:06	5°♄59'37	
morning max el	11117 Jan 28 10:44	26°♄16'02	17°52'01	direct	11118 Jan 04 02:45	5°♄43'37	
	11117 Jan 31 15:48	0°♄		asc. node	11118 Jan 07 14:13	6°♄29'23	
morning set	11117 Feb 13 02:39	20°♄43'25		morning max el	11118 Jan 11 22:17	9°♄35'06	18°15'55
	11117 Feb 18 06:22	0°♄			11118 Jan 25 04:55	0°♄	
desc. node	11117 Feb 23 05:51	8°♄44'31		morning set	11118 Jan 27 15:55	4°♄37'49	
superior conj	11117 Feb 23 21:24	9°♄51'29	-0°04'59	superior conj	11118 Feb 06 01:29	22°♄11'51	0°31'04
minimum elong	11117 Feb 23 20:59	9°♄49'41	0°04'37	minimum elong	11118 Feb 06 03:42	22°♄21'53	0°31'10
behind sun begin	11117 Feb 23 12:51	9°♄14'43		desc. node	11118 Feb 10 02:35	29°♄25'08	
behind sun end	11117 Feb 24 05:06	10°♄24'34			11118 Feb 10 10:33	0°♄	
max. Earth dist.	11117 Mar 03 05:32	22°♄09'32	1.43108 AU	max. Earth dist.	11118 Feb 13 15:31	5°♄31'41	1.41146 AU
	11117 Mar 08 02:33	0°♄		evening rise	11118 Feb 18 08:37	13°♄22'22	
evening rise	11117 Mar 09 20:23	2°♄44'51			11118 Feb 28 23:46	0°♄	
	11117 Mar 28 03:46	0°♄			11118 Mar 23 14:05	0°♄	
evening max el	11117 Apr 10 18:15	17°♄04'11	21°52'43	evening max el	11118 Mar 24 10:04	0°♄51'01	23°12'31
asc. node	11117 Apr 18 14:45	22°♄22'54		retrograde	11118 Apr 03 20:38	7°♄00'56	
retrograde	11117 Apr 20 01:03	22°♄32'47		asc. node	11118 Apr 05 12:03	6°♄48'06	
evening set	11117 Apr 24 13:55	20°♄41'33		evening set	11118 Apr 08 20:54	4°♄55'19	
inferior conj	11117 Apr 29 20:51	14°♄22'53	2°54'15		11118 Apr 13 03:38	30°♄	
minimum elong	11117 Apr 29 19:06	14°♄28'57	2°53'32	inferior conj	11118 Apr 14 06:02	28°♄29'15	2°27'39
min. Earth dist.	11117 Apr 29 22:10	14°♄18'17	0.68645 AU	minimum elong	11118 Apr 14 03:53	28°♄36'39	2°26'51
morning rise	11117 May 05 00:07	8°♄09'54		min. Earth dist.	11118 Apr 13 19:00	29°♄07'22	0.68648 AU
direct	11117 May 09 21:49	6°♄03'33		morning rise	11118 Apr 19 10:47	22°♄22'28	
morning max el	11117 May 19 14:47	11°♄46'58	22°28'51	direct	11118 Apr 23 19:13	20°♄37'16	
desc. node	11117 May 22 06:58	14°♄39'08		morning max el	11118 May 02 06:41	25°♄29'52	21°05'15
	11117 Jun 03 02:17	0°♄			11118 May 06 07:57	0°♄	
morning set	11117 Jun 22 07:28	29°♄18'05		desc. node	11118 May 09 03:48	3°♄33'05	
	11117 Jun 22 17:44	0°♄			11118 May 27 12:36	0°♄	
max. Earth dist.	11117 Jun 27 05:45	7°♄28'59	1.40710 AU	morning set	11118 Jun 01 23:40	8°♄26'52	
				max. Earth dist.	11118 Jun 09 09:42	20°♄17'59	1.42798 AU
					11118 Jun 15 06:07	0°♄	
superior conj	11117 Jul 05 01:11	21°♄06'00	-1°28'05				
minimum elong	11117 Jul 05 07:08	21°♄32'49	1°27'55	superior conj	11118 Jun 16 13:32	2°♄13'06	-1°55'36
	11117 Jul 09 22:03	0°♄		minimum elong	11118 Jun 16 19:56	2°♄40'19	1°55'44
evening rise	11117 Jul 15 04:50	9°♄54'06		evening rise	11118 Jun 28 05:00	22°♄39'36	
asc. node	11117 Jul 15 13:33	10°♄35'05		asc. node	11118 Jul 02 10:30	0°♄12'39	
	11117 Jul 26 16:58	0°♄			11118 Jul 02 07:38	0°♄	
evening max el	11117 Jul 31 04:52	5°♄32'51	18°21'18	evening max el	11118 Jul 14 16:31	18°♄30'21	18°05'09
retrograde	11117 Aug 07 15:49	9°♄18'05		retrograde	11118 Jul 21 09:01	21°♄55'35	
evening set	11117 Aug 09 19:10	9°♄00'19		evening set	11118 Jul 23 20:18	21°♄27'41	
inferior conj	11117 Aug 17 07:15	4°♄23'37	0°17'03	inferior conj	11118 Jul 30 14:36	16°♄30'39	1°34'41
minimum elong	11117 Aug 17 07:51	4°♄22'24	0°16'29	minimum elong	11118 Jul 30 17:06	16°♄24'41	1°33'23
desc. node	11117 Aug 18 05:39	3°♄37'20		min. Earth dist.	11118 Aug 02 19:32	13°♄28'51	0.60697 AU
min. Earth dist.	11117 Aug 20 15:34	1°♄39'49	0.58438 AU	desc. node	11118 Aug 05 02:56	10°♄32'54	
	11117 Aug 22 22:35	30°♄		morning rise	11118 Aug 06 11:08	10°♄36'15	
morning rise	11117 Aug 24 17:00	28°♄56'21		direct	11118 Aug 13 01:18	8°♄27'22	
direct	11117 Aug 30 21:16	27°♄15'30		morning max el	11118 Aug 27 07:59	16°♄24'03	27°53'40
	11117 Sep 08 03:07	0°♄					

	11118 Sep 07 12:33	0°♎				11119 Sep 01 09:14	0°♎		
	11118 Sep 25 07:13	0°♏			morning set	11119 Sep 13 00:53	21°♎39'15		
asc. node	11118 Sep 28 11:07	6°♏21'49			asc. node	11119 Sep 15 07:53	26°♎21'02		
morning set	11118 Sep 29 03:18	7°♏45'27				11119 Sep 17 01:38	0°♏		
max. Earth dist.	11118 Oct 05 01:53	20°♏31'30	1.31561 AU		max. Earth dist.	11119 Sep 18 05:38	2°♏29'08	1.32219 AU	
superior conj	11118 Oct 06 09:16	23°♏24'53	1°11'17		superior conj	11119 Sep 20 17:33	7°♏52'55	0°51'08	
minimum elong	11118 Oct 06 07:02	23°♏12'29	1°11'08		minimum elong	11119 Sep 20 15:29	7°♏41'42	0°50'47	
	11118 Oct 09 08:32	0°♎			evening rise	11119 Sep 27 13:53	22°♏49'02		
evening rise	11118 Oct 13 02:31	8°♎12'07				11119 Sep 30 23:57	0°♎		
	11118 Oct 24 05:59	0°♏			desc. node	11119 Oct 18 21:32	28°♎54'28		
desc. node	11118 Nov 01 00:16	12°♏00'21				11119 Oct 19 21:27	0°♏		
evening max el	11118 Nov 09 01:46	21°♏23'14	25°22'53		evening max el	11119 Oct 21 13:01	1°♏40'25	23°46'36	
retrograde	11118 Nov 22 22:38	28°♏21'42			retrograde	11119 Nov 04 02:06	8°♏26'10		
evening set	11118 Nov 28 20:28	27°♏02'02			evening set	11119 Nov 08 17:53	7°♏38'51		
min. Earth dist.	11118 Dec 03 13:58	24°♏22'52	0.57309 AU		min. Earth dist.	11119 Nov 14 23:20	4°♏38'17	0.55677 AU	
inferior conj	11118 Dec 06 10:58	22°♏26'20	-5°11'42		inferior conj	11119 Nov 16 23:22	3°♏26'33	-5°46'47	
minimum elong	11118 Dec 06 18:19	22°♏13'53	5°09'41		minimum elong	11119 Nov 17 01:11	3°♏23'49	5°46'10	
morning rise	11118 Dec 14 18:27	18°♏11'50				11119 Nov 23 18:41	30°♎		
direct	11118 Dec 17 01:20	17°♏56'14			morning rise	11119 Nov 25 10:23	29°♎31'43		
asc. node	11118 Dec 25 11:18	21°♏44'30			direct	11119 Nov 28 04:25	29°♎12'46		
morning max el	11118 Dec 26 01:04	22°♏16'44	19°01'07			11119 Dec 02 09:12	0°♏		
	11119 Jan 01 04:01	0°♏			morning max el	11119 Dec 08 15:30	4°♏10'36	20°09'08	
morning set	11119 Jan 11 15:09	18°♏58'53			asc. node	11119 Dec 12 08:20	8°♏17'31		
	11119 Jan 17 05:11	0°♏				11119 Dec 25 02:16	0°♏		
					morning set	11119 Dec 26 20:52	3°♏35'48		
superior conj	11119 Jan 20 00:10	5°♏24'09	0°59'30						
minimum elong	11119 Jan 20 03:12	5°♏38'37	0°59'37		superior conj	11120 Jan 03 12:39	19°♏14'28	1°19'57	
max. Earth dist.	11119 Jan 26 22:24	18°♏14'00	1.38953 AU		minimum elong	11120 Jan 03 15:18	19°♏27'45	1°20'17	
desc. node	11119 Jan 27 23:23	20°♏05'06			max. Earth dist.	11120 Jan 09 05:26	0°♏22'35	1.36772 AU	
evening rise	11119 Jan 30 18:21	24°♏56'44				11120 Jan 09 00:40	0°♏		
	11119 Feb 02 18:08	0°♏			evening rise	11120 Jan 12 23:58	7°♏21'55		
	11119 Feb 22 16:40	0°♏			desc. node	11120 Jan 14 20:14	10°♏40'04		
evening max el	11119 Mar 06 23:59	14°♏41'14	24°32'17			11120 Jan 26 13:32	0°♏		
retrograde	11119 Mar 18 12:35	21°♏25'22			evening max el	11120 Feb 17 13:20	28°♏31'09	25°45'11	
asc. node	11119 Mar 23 09:20	19°♏38'18				11120 Feb 19 03:05	0°♏		
evening set	11119 Mar 24 00:52	19°♏07'07			retrograde	11120 Feb 29 23:53	5°♏39'32		
min. Earth dist.	11119 Mar 28 14:43	13°♏54'35	0.68219 AU		evening set	11120 Mar 07 00:10	3°♏11'29		
inferior conj	11119 Mar 29 13:48	12°♏37'27	1°51'32		asc. node	11120 Mar 09 06:36	0°♏58'17		
minimum elong	11119 Mar 29 11:42	12°♏44'28	1°50'48			11120 Mar 10 02:56	30°♎		
morning rise	11119 Apr 03 22:39	6°♏38'17			min. Earth dist.	11120 Mar 11 07:06	28°♏34'05	0.67374 AU	
direct	11119 Apr 07 18:27	5°♏14'34			inferior conj	11120 Mar 12 18:12	26°♏42'56	1°05'57	
morning max el	11119 Apr 15 05:57	9°♏25'14	19°53'30		minimum elong	11120 Mar 12 16:40	26°♏47'47	1°05'29	
desc. node	11119 Apr 26 00:34	23°♏02'19			morning rise	11120 Mar 18 09:43	20°♏52'56		
	11119 Apr 30 19:11	0°♏			direct	11120 Mar 21 17:50	19°♏49'10		
morning set	11119 May 11 23:50	16°♏56'53			morning max el	11120 Mar 28 12:59	23°♏30'44	18°56'44	
	11119 May 20 09:04	0°♏				11120 Apr 03 00:15	0°♏		
max. Earth dist.	11119 May 22 21:09	3°♏57'47	1.44430 AU		greatest brilliancy	11120 Apr 11 05:12	11°♏55'38	-0.8m	
					desc. node	11120 Apr 11 21:18	12°♏56'56		
superior conj	11119 May 28 01:45	12°♏17'56	-2°11'35		morning set	11120 Apr 20 05:51	25°♏50'55		
minimum elong	11119 May 28 04:33	12°♏29'14	2°12'06			11120 Apr 22 21:59	0°♏		
	11119 Jun 07 17:50	0°♏			max. Earth dist.	11120 May 04 13:58	18°♏11'36	1.45424 AU	
evening rise	11119 Jun 10 10:23	4°♏34'13							
asc. node	11119 Jun 19 07:30	19°♏31'15			superior conj	11120 May 06 16:36	21°♏30'24	-2°09'36	
	11119 Jun 26 14:01	0°♏			minimum elong	11120 May 06 12:03	21°♏12'29	2°09'54	
evening max el	11119 Jun 28 06:24	1°♏49'37	18°07'58			11120 May 12 01:30	0°♏		
retrograde	11119 Jul 04 15:21	5°♏09'57			evening rise	11120 May 21 16:39	15°♏29'10		
evening set	11119 Jul 07 10:37	4°♏29'15				11120 May 30 16:07	0°♏		
	11119 Jul 12 21:23	30°♎			asc. node	11120 Jun 05 04:33	8°♏23'41		
inferior conj	11119 Jul 13 14:44	29°♏13'32	2°27'44		evening max el	11120 Jun 10 19:20	15°♏22'07	18°29'05	
minimum elong	11119 Jul 13 17:21	29°♏06'27	2°26'30		retrograde	11120 Jun 17 06:23	18°♏51'28		
min. Earth dist.	11119 Jul 16 08:41	26°♏16'22	0.62930 AU		evening set	11120 Jun 20 09:38	17°♏56'20		
morning rise	11119 Jul 19 22:17	23°♏02'11			inferior conj	11120 Jun 26 03:30	12°♏23'56	2°59'45	
desc. node	11119 Jul 23 00:09	21°♏15'17			minimum elong	11120 Jun 26 05:18	12°♏18'32	2°58'50	
direct	11119 Jul 26 15:11	20°♏32'01			min. Earth dist.	11120 Jun 28 07:14	9°♏49'51	0.64917 AU	
morning max el	11119 Aug 09 15:36	28°♏34'14	27°51'47		morning rise	11120 Jul 01 23:55	6°♏04'17		
	11119 Aug 11 00:49	0°♏			direct	11120 Jul 08 13:23	3°♏22'39		

desc. node	11120 Jul 08 21:18	3°☿23'02		min. Earth dist.	11121 Jun 11 14:07	23°♄56'23	0.66540 AU
morning max el	11120 Jul 22 02:08	11°☿19'50	27°15'09	morning rise	11121 Jun 15 13:16	19°♄33'05	
	11120 Aug 05 21:38	0°♌		direct	11121 Jun 21 18:42	16°♄50'37	
	11120 Aug 23 21:27	0°♍		desc. node	11121 Jun 25 18:24	17°♄46'02	
morning set	11120 Aug 26 13:17	5°♍05'01		morning max el	11121 Jul 04 12:54	24°♄27'58	26°11'08
max. Earth dist.	11120 Aug 31 01:08	14°♍03'50	1.33381 AU		11121 Jul 09 12:23	0°☿	
asc. node	11120 Sep 01 04:39	16°♍25'44			11121 Jul 30 08:00	0°♌	
				morning set	11121 Aug 09 13:00	17°♌52'57	
superior conj	11120 Sep 03 21:01	22°♍03'30	0°26'05	max. Earth dist.	11121 Aug 13 09:56	25°♌14'30	1.35038 AU
minimum elong	11120 Sep 03 19:45	21°♍56'46	0°25'40		11121 Aug 15 19:59	0°♍	
	11120 Sep 07 14:08	0°♎					
evening rise	11120 Sep 11 00:50	7°♎22'07		superior conj	11121 Aug 18 17:11	5°♍49'12	-0°03'21
	11120 Sep 22 22:35	0°♏		minimum elong	11121 Aug 18 17:23	5°♍50'16	0°03'37
evening max el	11120 Oct 02 01:08	11°♏47'13	22°06'22	behind sun begin	11121 Aug 18 11:31	5°♍20'17	
desc. node	11120 Oct 04 18:50	14°♏11'56		behind sun end	11121 Aug 18 23:15	6°♍20'17	
retrograde	11120 Oct 14 18:25	18°♏07'02		asc. node	11121 Aug 19 01:24	6°♍31'15	
evening set	11120 Oct 17 22:58	17°♏44'23		evening rise	11121 Aug 26 09:17	21°♍44'49	
inferior conj	11120 Oct 26 19:56	13°♏45'45	-5°30'49		11121 Aug 30 10:54	0°♎	
minimum elong	11120 Oct 26 13:27	13°♏54'51	5°29'33	evening max el	11121 Sep 13 23:18	22°♎19'21	20°37'26
min. Earth dist.	11120 Oct 26 06:23	14°♏04'46	0.54730 AU	desc. node	11121 Sep 21 16:09	27°♎22'06	
morning rise	11120 Nov 04 05:24	9°♏58'45		retrograde	11121 Sep 25 06:02	27°♎55'17	
direct	11120 Nov 07 15:58	9°♏32'32		evening set	11121 Sep 27 09:43	27°♎43'55	
morning max el	11120 Nov 19 16:17	15°♏13'47	21°38'52	inferior conj	11121 Oct 06 12:12	23°♎48'09	-4°17'59
asc. node	11120 Nov 28 05:17	25°♏52'30		minimum elong	11121 Oct 06 02:15	24°♎02'28	4°14'56
	11120 Nov 30 18:22	0°♐		min. Earth dist.	11121 Oct 07 14:29	23°♎10'15	0.54686 AU
morning set	11120 Dec 10 06:31	18°♐21'21		morning rise	11121 Oct 14 18:30	19°♎48'51	
	11120 Dec 15 18:42	0°♑		direct	11121 Oct 19 00:19	19°♎10'10	
				morning max el	11121 Nov 01 06:27	25°♎35'05	23°23'46
superior conj	11120 Dec 17 11:00	3°♑31'41	1°32'52		11121 Nov 05 09:46	0°♏	
minimum elong	11120 Dec 17 12:40	3°♑40'25	1°33'24	asc. node	11121 Nov 15 02:12	14°♏14'19	
max. Earth dist.	11120 Dec 21 17:03	12°♑15'09	1.34830 AU		11121 Nov 23 06:14	0°♐	
evening rise	11120 Dec 25 22:09	20°♑29'40		morning set	11121 Nov 24 18:03	3°♐08'54	
	11120 Dec 31 02:13	0°♑					
desc. node	11120 Dec 31 17:09	1°♑05'57		superior conj	11121 Dec 01 16:02	18°♐05'49	1°38'52
	11121 Jan 19 12:23	0°♒		minimum elong	11121 Dec 01 16:32	18°♐08'29	1°39'29
evening max el	11121 Jan 30 02:45	12°♒14'53	26°43'57	max. Earth dist.	11121 Dec 04 12:24	24°♐10'42	1.33273 AU
retrograde	11121 Feb 12 05:54	19°♒36'23			11121 Dec 07 07:37	0°♑	
evening set	11121 Feb 18 17:01	17°♒03'08		evening rise	11121 Dec 09 09:12	4°♑10'06	
min. Earth dist.	11121 Feb 22 18:06	12°♒59'52	0.66133 AU	desc. node	11121 Dec 18 14:08	21°♑17'02	
asc. node	11121 Feb 24 03:52	11°♒20'41			11121 Dec 23 20:23	0°♑	
inferior conj	11121 Feb 24 17:08	10°♒41'22	0°10'49	evening max el	11122 Jan 12 15:47	25°♑43'07	27°21'27
minimum elong	11121 Feb 24 16:50	10°♒42'16	0°10'58		11122 Jan 17 20:02	0°♒	
transit middle	11121 Feb 24 16:50	10°♒42'16	0°10'58	retrograde	11122 Jan 26 05:44	3°♒07'10	
transit begin	11121 Feb 24 14:42	10°♒48'36		evening set	11122 Feb 02 01:15	0°♒35'07	
transit end	11121 Feb 24 18:59	10°♒35'57			11122 Feb 02 19:10	30°♒	
morning rise	11121 Mar 02 17:48	5°♒02'26		min. Earth dist.	11122 Feb 05 21:38	27°♒04'01	0.64534 AU
direct	11121 Mar 05 15:34	4°♒15'41		inferior conj	11122 Feb 08 08:12	24°♒26'53	-0°53'37
morning max el	11121 Mar 12 02:13	7°♒40'53	18°16'20	minimum elong	11122 Feb 08 09:50	24°♒22'28	0°52'31
	11121 Mar 27 18:30	0°♓		asc. node	11122 Feb 11 01:06	21°♒41'25	
desc. node	11121 Mar 29 18:00	3°♓10'11		morning rise	11122 Feb 14 20:14	19°♒01'19	
morning set	11121 Mar 31 12:32	6°♓00'37		direct	11122 Feb 17 09:21	18°♒27'54	
				morning max el	11122 Feb 23 19:05	21°♒48'00	17°52'56
superior conj	11121 Apr 15 23:04	0°♓27'56	-1°47'26		11122 Mar 02 04:56	0°♒	
minimum elong	11121 Apr 15 13:44	29°♓51'22	1°46'55	morning set	11122 Mar 13 00:16	17°♒35'53	
	11121 Apr 15 15:56	0°♓		desc. node	11122 Mar 16 14:43	23°♒36'38	
max. Earth dist.	11121 Apr 17 09:14	2°♓41'33	1.45689 AU		11122 Mar 20 11:34	0°♓	
evening rise	11121 May 01 23:19	25°♓27'38					
	11121 May 04 21:03	0°♈		superior conj	11122 Mar 26 15:25	9°♓58'53	-1°10'30
greatest brilliancy	11121 May 12 23:11	12°♈32'01	-0.8m	minimum elong	11122 Mar 26 07:51	9°♓28'36	1°09'36
asc. node	11121 May 23 01:38	26°♈41'21		max. Earth dist.	11122 Mar 31 04:39	17°♓12'39	1.45209 AU
evening max el	11121 May 25 04:51	29°♈01'52	19°07'33		11122 Apr 08 09:37	0°♈	
	11121 May 26 05:16	0°♉		evening rise	11122 Apr 11 13:43	4°♈52'43	
retrograde	11121 Jun 01 02:27	2°♉52'49		greatest brilliancy	11122 Apr 26 12:54	27°♈23'57	-0.6m
evening set	11121 Jun 04 14:05	1°♉42'13			11122 Apr 28 08:13	0°♈	
	11121 Jun 06 14:26	30°♈		evening max el	11122 May 08 09:24	12°♈45'33	20°01'52
inferior conj	11121 Jun 10 01:17	25°♈54'49	3°14'41	asc. node	11122 May 09 22:47	14°♈13'34	
minimum elong	11121 Jun 10 01:58	25°♈52'39	3°13'59	retrograde	11122 May 16 00:51	17°♈08'45	

evening set	11122 May 19 21:37	15° Π 42'13		evening set	11123 May 04 06:15	29° \mathcal{B} 50'55	
inferior conj	11122 May 25 05:13	9° Π 41'19	3°15'43		11123 May 04 01:39	30° \mathcal{R} \mathcal{B}	
minimum elong	11122 May 25 04:47	9° Π 42'48	3°15'06	inferior conj	11123 May 09 12:48	23° \mathcal{B} 38'13	3°05'04
min. Earth dist.	11122 May 26 03:35	8° Π 25'40	0.67726 AU	minimum elong	11123 May 09 11:27	23° \mathcal{B} 42'53	3°04'25
morning rise	11122 May 30 11:37	3° Π 21'25		min. Earth dist.	11123 May 09 21:32	23° \mathcal{B} 07'53	0.68448 AU
direct	11122 Jun 05 05:57	0° Π 47'45		morning rise	11123 May 14 16:27	17° \mathcal{B} 22'29	
desc. node	11122 Jun 12 15:25	3° Π 56'54		direct	11123 May 19 21:56	15° \mathcal{B} 04'49	
morning max el	11122 Jun 16 22:42	7° Π 48'58	24°49'24	morning max el	11123 May 30 08:33	21° \mathcal{B} 17'35	23°20'01
	11122 Jul 04 06:57	0° \mathcal{E}		desc. node	11123 May 30 12:23	21° \mathcal{B} 27'17	
morning set	11122 Jul 22 19:46	29° \mathcal{E} 52'33			11123 Jun 06 20:35	0° Π	
	11122 Jul 22 21:27	0° \mathcal{O}			11123 Jun 27 13:01	0° \mathcal{E}	
max. Earth dist.	11122 Jul 26 09:45	6° \mathcal{O} 19'27	1.37113 AU	morning set	11123 Jul 04 04:30	10° \mathcal{E} 50'37	
				max. Earth dist.	11123 Jul 08 06:51	17° \mathcal{E} 50'20	1.39408 AU
					11123 Jul 15 01:58	0° \mathcal{O}	
superior conj	11122 Aug 02 03:02	19° \mathcal{O} 03'12	-0°35'54	superior conj	11123 Jul 15 22:43	1° \mathcal{O} 35'52	-1°09'32
minimum elong	11122 Aug 02 05:22	19° \mathcal{O} 14'38	0°35'55	minimum elong	11123 Jul 16 03:30	1° \mathcal{O} 58'02	1°09'22
asc. node	11122 Aug 05 22:12	26° \mathcal{O} 34'26		asc. node	11123 Jul 23 19:03	16° \mathcal{O} 31'07	
	11122 Aug 07 15:09	0° \mathcal{M}		evening rise	11123 Jul 25 09:04	19° \mathcal{O} 34'41	
evening rise	11122 Aug 10 13:00	5° \mathcal{M} 51'35			11123 Jul 30 21:18	0° \mathcal{M}	
	11122 Aug 24 07:55	0° \mathcal{L}		evening max el	11123 Aug 10 11:38	15° \mathcal{M} 39'24	18°39'29
evening max el	11122 Aug 27 11:24	3° \mathcal{L} 36'42	19°27'47	retrograde	11123 Aug 18 14:05	19° \mathcal{M} 42'52	
retrograde	11122 Sep 06 01:14	8° \mathcal{L} 22'23		evening set	11123 Aug 20 13:37	19° \mathcal{M} 29'09	
evening set	11122 Sep 07 21:30	8° \mathcal{L} 12'34		desc. node	11123 Aug 26 10:47	16° \mathcal{M} 34'54	
desc. node	11122 Sep 08 13:28	8° \mathcal{L} 04'24		inferior conj	11123 Aug 28 12:46	15° \mathcal{M} 03'56	-0°38'50
inferior conj	11122 Sep 16 14:37	4° \mathcal{L} 06'25	-2°29'40	minimum elong	11123 Aug 28 11:12	15° \mathcal{M} 06'53	0°38'26
minimum elong	11122 Sep 16 07:59	4° \mathcal{L} 17'04	2°27'11	min. Earth dist.	11123 Aug 31 17:29	12° \mathcal{M} 40'59	0.57252 AU
min. Earth dist.	11122 Sep 19 01:31	2° \mathcal{L} 31'57	0.55587 AU	morning rise	11123 Sep 05 05:22	9° \mathcal{M} 57'01	
	11122 Sep 23 17:11	30° \mathcal{R} \mathcal{M}		direct	11123 Sep 11 01:07	8° \mathcal{M} 33'14	
morning rise	11122 Sep 24 16:05	29° \mathcal{M} 37'02		morning max el	11123 Sep 25 08:21	16° \mathcal{M} 02'23	26°39'23
direct	11122 Sep 29 17:53	28° \mathcal{M} 39'06			11123 Oct 06 17:24	0° \mathcal{L}	
	11122 Oct 05 16:56	0° \mathcal{L}		asc. node	11123 Oct 19 19:55	22° \mathcal{L} 34'36	
morning max el	11122 Oct 13 17:21	5° \mathcal{L} 40'26	25°09'52		11123 Oct 23 11:19	0° \mathcal{M}	
	11122 Oct 31 05:29	0° \mathcal{M}		morning set	11123 Oct 24 15:54	2° \mathcal{M} 31'13	
asc. node	11122 Nov 01 23:05	3° \mathcal{M} 11'24					
morning set	11122 Nov 09 05:44	17° \mathcal{M} 53'42		superior conj	11123 Oct 31 12:42	17° \mathcal{M} 36'13	1°32'19
	11122 Nov 14 18:35	0° \mathcal{X}		minimum elong	11123 Oct 31 11:10	17° \mathcal{M} 27'41	1°32'38
superior conj	11122 Nov 16 01:18	2° \mathcal{X} 49'24	1°38'32	max. Earth dist.	11123 Oct 31 23:19	18° \mathcal{M} 35'18	1.31542 AU
minimum elong	11122 Nov 16 00:40	2° \mathcal{X} 45'57	1°39'04		11123 Nov 06 04:07	0° \mathcal{X}	
max. Earth dist.	11122 Nov 17 15:22	6° \mathcal{X} 18'18	1.32170 AU	evening rise	11123 Nov 07 09:32	2° \mathcal{X} 36'41	
evening rise	11122 Nov 23 05:55	18° \mathcal{X} 14'54		desc. node	11123 Nov 22 08:18	0° \mathcal{Z} 26'25	
	11122 Nov 29 05:02	0° \mathcal{Z}			11123 Nov 22 01:41	0° \mathcal{Z}	
desc. node	11122 Dec 05 11:11	11° \mathcal{Z} 06'45		evening max el	11123 Dec 08 08:43	21° \mathcal{Z} 03'16	27°07'15
	11122 Dec 18 06:37	0° \mathcal{A}		retrograde	11123 Dec 22 06:32	28° \mathcal{Z} 14'47	
evening max el	11122 Dec 26 02:40	8° \mathcal{A} 43'40	27°30'53	evening set	11123 Dec 29 04:17	26° \mathcal{Z} 09'33	
retrograde	11123 Jan 08 22:18	16° \mathcal{A} 02'49		min. Earth dist.	11124 Jan 01 23:12	23° \mathcal{Z} 27'16	0.60558 AU
evening set	11123 Jan 15 22:08	13° \mathcal{A} 39'48		inferior conj	11124 Jan 05 02:38	20° \mathcal{Z} 48'28	-3°22'58
min. Earth dist.	11123 Jan 19 15:47	10° \mathcal{A} 36'55	0.62643 AU	minimum elong	11124 Jan 05 09:29	20° \mathcal{Z} 33'58	3°19'56
inferior conj	11123 Jan 22 12:29	7° \mathcal{A} 52'10	-2°06'05	morning rise	11124 Jan 12 17:24	15° \mathcal{Z} 59'08	
minimum elong	11123 Jan 22 16:41	7° \mathcal{A} 42'03	2°03'51	direct	11124 Jan 14 20:30	15° \mathcal{Z} 41'08	
asc. node	11123 Jan 28 22:21	2° \mathcal{A} 57'53		asc. node	11124 Jan 15 19:34	15° \mathcal{Z} 44'56	
morning rise	11123 Jan 29 13:37	2° \mathcal{A} 43'00		morning max el	11124 Jan 22 03:24	19° \mathcal{Z} 19'49	17°59'43
direct	11123 Jan 31 20:17	2° \mathcal{A} 19'05			11124 Jan 29 22:47	0° \mathcal{A}	
morning max el	11123 Feb 07 12:35	5° \mathcal{A} 43'48	17°47'03	morning set	11124 Feb 06 17:51	13° \mathcal{A} 54'58	
	11123 Feb 23 07:31	0° \mathcal{H}			11124 Feb 15 13:47	0° \mathcal{H}	
morning set	11123 Feb 23 12:10	0° \mathcal{H} 20'26		superior conj	11124 Feb 16 21:19	2° \mathcal{H} 19'21	0°11'11
desc. node	11123 Mar 03 11:25	14° \mathcal{H} 11'35		minimum elong	11124 Feb 16 22:16	2° \mathcal{H} 23'31	0°11'22
superior conj	11123 Mar 07 05:57	20° \mathcal{H} 33'50	-0°28'21	behind sun begin	11124 Feb 16 16:37	1° \mathcal{H} 58'38	
minimum elong	11123 Mar 07 03:07	20° \mathcal{H} 22'00	0°27'45	behind sun end	11124 Feb 17 03:55	2° \mathcal{H} 48'21	
	11123 Mar 12 23:50	0° \mathcal{Y}		desc. node	11124 Feb 18 08:09	4° \mathcal{H} 51'40	
max. Earth dist.	11123 Mar 13 22:01	1° \mathcal{Y} 29'20	1.44047 AU	max. Earth dist.	11124 Feb 24 11:26	15° \mathcal{H} 17'16	1.42323 AU
evening rise	11123 Mar 22 02:17	14° \mathcal{Y} 21'57		evening rise	11124 Mar 01 03:26	24° \mathcal{H} 29'38	
	11123 Apr 01 10:35	0° \mathcal{B}			11124 Mar 04 15:27	0° \mathcal{Y}	
evening max el	11123 Apr 21 08:18	26° \mathcal{B} 30'09	21°09'27		11124 Mar 25 09:33	0° \mathcal{B}	
	11123 Apr 25 11:44	0° Π		evening max el	11124 Apr 03 02:13	10° \mathcal{B} 15'58	22°26'09
asc. node	11123 Apr 26 20:01	0° Π 45'43		retrograde	11124 Apr 12 20:34	16° \mathcal{B} 02'11	
retrograde	11123 Apr 29 23:27	1° Π 33'24					

asc. node	11124 Apr 12 17:16	16°♄02'06			11125 Feb 25 18:45	0°♄	
evening set	11124 Apr 17 14:19	14°♄04'26		evening max el	11125 Mar 16 16:49	24°♄03'52	23°46'42
inferior conj	11124 Apr 22 21:58	7°♄42'15	2°44'07		11125 Mar 24 22:04	0°♄	
minimum elong	11124 Apr 22 20:01	7°♄49'03	2°43'22	retrograde	11125 Mar 27 14:52	0°♄29'54	
min. Earth dist.	11124 Apr 22 17:54	7°♄56'25	0.68709 AU		11125 Mar 30 03:43	30°♄	
morning rise	11124 Apr 28 01:35	1°♄31'59		asc. node	11125 Mar 30 14:33	29°♄48'04	
	11124 Apr 30 12:45	30°♄		evening set	11125 Apr 01 20:14	28°♄18'23	
direct	11124 May 02 17:36	29°♄34'37		min. Earth dist.	11125 Apr 06 14:31	22°♄45'36	0.68520 AU
	11124 May 05 01:20	0°♄		inferior conj	11125 Apr 07 06:47	21°♄50'01	2°13'30
morning max el	11124 May 11 21:27	4°♄55'13	21°52'07	minimum elong	11125 Apr 07 04:36	21°♄57'28	2°12'42
desc. node	11124 May 16 09:16	9°♄55'42		morning rise	11125 Apr 12 12:59	15°♄46'24	
	11124 May 31 00:52	0°♄		direct	11125 Apr 16 15:51	14°♄10'40	
morning set	11124 Jun 13 11:17	20°♄38'24		morning max el	11125 Apr 24 16:27	18°♄44'15	20°33'00
	11124 Jun 19 05:07	0°♄		desc. node	11125 May 03 06:05	29°♄06'18	
max. Earth dist.	11124 Jun 19 07:37	0°♄10'26	1.41646 AU		11125 May 03 21:50	0°♄	
				morning set	11125 May 23 18:40	29°♄25'22	
superior conj	11124 Jun 26 23:44	13°♄16'46	-1°40'44		11125 May 24 03:36	0°♄	
minimum elong	11124 Jun 27 06:14	13°♄45'19	1°40'40	max. Earth dist.	11125 Jun 01 14:41	13°♄22'08	1.43558 AU
	11124 Jul 06 06:03	0°♄					
evening rise	11124 Jul 07 17:47	2°♄44'45		superior conj	11125 Jun 08 01:56	23°♄57'23	-2°04'13
asc. node	11124 Jul 09 15:57	6°♄17'11		minimum elong	11125 Jun 08 07:24	24°♄20'09	2°04'32
evening max el	11124 Jul 23 20:13	28°♄19'39	18°11'58		11125 Jun 11 16:13	0°♄	
	11124 Jul 25 18:37	0°♄		evening rise	11125 Jun 20 10:36	15°♄10'32	
retrograde	11124 Jul 30 22:01	1°♄54'51		asc. node	11125 Jun 26 12:54	25°♄47'48	
evening set	11124 Aug 02 04:38	1°♄33'10			11125 Jun 29 01:03	0°♄	
	11124 Aug 05 07:43	30°♄		evening max el	11125 Jul 07 09:13	11°♄27'46	18°04'05
inferior conj	11124 Aug 09 08:45	26°♄47'20	0°53'07	retrograde	11125 Jul 13 21:28	14°♄49'28	
minimum elong	11124 Aug 09 10:25	26°♄43'39	0°52'08	evening set	11125 Jul 16 12:00	14°♄16'34	
desc. node	11124 Aug 12 08:06	24°♄11'11		inferior conj	11125 Jul 22 23:48	9°♄11'28	2°00'01
min. Earth dist.	11124 Aug 12 16:42	23°♄53'09	0.59382 AU	minimum elong	11125 Jul 23 02:31	9°♄04'37	1°58'41
morning rise	11124 Aug 16 12:56	21°♄07'02		min. Earth dist.	11125 Jul 26 00:45	6°♄08'46	0.61657 AU
direct	11124 Aug 22 22:02	19°♄14'07		morning rise	11125 Jul 29 14:36	3°♄08'19	
morning max el	11124 Sep 06 06:42	27°♄03'36	27°37'32	desc. node	11125 Jul 30 05:22	2°♄43'52	
	11124 Sep 09 02:06	0°♄		direct	11125 Aug 05 06:41	0°♄49'09	
	11124 Sep 29 08:16	0°♄		morning max el	11125 Aug 19 11:37	8°♄50'24	27°57'30
asc. node	11124 Oct 05 16:42	12°♄16'19			11125 Sep 04 19:06	0°♄	
morning set	11124 Oct 07 22:46	16°♄56'08			11125 Sep 21 11:58	0°♄	
	11124 Oct 13 23:08	0°♄		morning set	11125 Sep 22 00:23	1°♄03'32	
max. Earth dist.	11124 Oct 14 08:36	0°♄52'36	1.31406 AU	asc. node	11125 Sep 22 13:27	2°♄10'55	
				max. Earth dist.	11125 Sep 27 15:19	12°♄59'52	1.31772 AU
superior conj	11124 Oct 15 00:20	2°♄20'04	1°20'31				
minimum elong	11124 Oct 14 22:14	2°♄08'22	1°20'32	superior conj	11125 Sep 29 10:23	16°♄55'57	1°03'21
evening rise	11124 Oct 21 17:42	17°♄08'34		minimum elong	11125 Sep 29 08:09	16°♄43'41	1°03'07
	11124 Oct 28 00:37	0°♄			11125 Oct 05 08:56	0°♄	
desc. node	11124 Nov 08 05:29	19°♄03'28		evening rise	11125 Oct 06 04:26	1°♄45'23	
	11124 Nov 16 19:25	0°♄			11125 Oct 21 07:45	0°♄	
evening max el	11124 Nov 19 07:07	2°♄31'00	26°09'30	desc. node	11125 Oct 26 02:42	6°♄41'34	
retrograde	11124 Dec 03 05:11	9°♄35'06		evening max el	11125 Oct 31 21:24	13°♄09'09	24°43'35
evening set	11124 Dec 09 15:13	7°♄56'34		retrograde	11125 Nov 14 16:26	20°♄04'02	
min. Earth dist.	11124 Dec 13 20:07	5°♄21'29	0.58440 AU	evening set	11125 Nov 20 02:37	18°♄58'23	
inferior conj	11124 Dec 16 22:57	3°♄04'36	-4°36'27	min. Earth dist.	11125 Nov 25 08:59	16°♄12'14	0.56544 AU
minimum elong	11124 Dec 17 07:07	2°♄49'36	4°33'41	inferior conj	11125 Nov 27 22:56	14°♄33'14	-5°31'38
	11124 Dec 21 14:32	30°♄		minimum elong	11125 Nov 28 04:35	14°♄24'10	5°30'18
morning rise	11124 Dec 25 01:39	28°♄37'41		morning rise	11125 Dec 06 08:45	10°♄28'00	
direct	11124 Dec 27 05:22	28°♄22'16		direct	11125 Dec 08 19:15	10°♄11'37	
	11125 Jan 01 11:29	0°♄		morning max el	11125 Dec 18 09:42	14°♄47'16	19°27'16
asc. node	11125 Jan 01 16:42	0°♄08'19		asc. node	11125 Dec 19 13:45	15°♄58'30	
morning max el	11125 Jan 04 11:45	2°♄24'35	18°32'32		11125 Dec 29 02:21	0°♄	
morning set	11125 Jan 20 11:50	28°♄02'13		morning set	11126 Jan 04 14:07	12°♄30'36	
	11125 Jan 21 12:14	0°♄					
superior conj	11125 Jan 29 09:59	15°♄04'05	0°44'05	superior conj	11126 Jan 12 15:02	28°♄33'57	1°09'06
minimum elong	11125 Jan 29 12:43	15°♄16'49	0°44'09	minimum elong	11126 Jan 12 18:00	28°♄48'28	1°09'19
desc. node	11125 Feb 04 04:54	25°♄32'39			11126 Jan 13 08:41	0°♄	
max. Earth dist.	11125 Feb 05 19:53	28°♄22'54	1.40226 AU	max. Earth dist.	11126 Jan 19 01:38	10°♄46'29	1.38006 AU
	11125 Feb 06 18:23	0°♄		desc. node	11126 Jan 22 01:42	16°♄10'58	
evening rise	11125 Feb 10 00:43	5°♄31'17		evening rise	11126 Jan 22 19:13	17°♄28'08	
					11126 Jan 30 05:45	0°♄	

	11126 Feb 20 04:14	0°♿			11127 Jan 23 09:42	0°♿	
evening max el	11126 Feb 27 06:13	7°♿54'06	25°04'34	evening max el	11127 Feb 09 19:49	21°♿43'33	26°12'29
retrograde	11126 Mar 11 05:06	14°♿50'40		retrograde	11127 Feb 22 14:16	28°♿58'39	
evening set	11126 Mar 16 22:25	12°♿27'54		evening set	11127 Feb 28 19:13	26°♿28'05	
asc. node	11126 Mar 17 11:50	11°♿58'05		asc. node	11127 Mar 04 09:07	22°♿48'37	
min. Earth dist.	11126 Mar 21 09:10	7°♿30'10	0.67905 AU	min. Earth dist.	11127 Mar 04 23:39	22°♿05'05	0.66887 AU
inferior conj	11126 Mar 22 13:21	5°♿57'47	1°33'24	inferior conj	11127 Mar 06 15:44	20°♿01'41	0°43'47
minimum elong	11126 Mar 22 11:25	6°♿04'07	1°32'43	minimum elong	11127 Mar 06 14:38	20°♿05'03	0°43'31
morning rise	11126 Mar 28 00:44	0°♿02'07		morning rise	11127 Mar 12 10:49	14°♿15'50	
	11126 Mar 28 01:58	30°♿♿		direct	11127 Mar 15 14:23	13°♿19'35	
direct	11126 Mar 31 15:19	28°♿47'17		morning max el	11127 Mar 22 04:56	16°♿52'50	18°37'30
	11126 Apr 04 09:53	0°♿			11127 Apr 01 05:19	0°♿	
morning max el	11126 Apr 07 19:04	2°♿44'23	19°27'19	desc. node	11127 Apr 06 23:35	8°♿51'29	
desc. node	11126 Apr 20 02:51	18°♿47'34		morning set	11127 Apr 12 09:30	17°♿20'26	
greatest brilliancy	11126 Apr 20 12:05	19°♿21'33	-0.7m		11127 Apr 20 11:18	0°♿	
	11126 Apr 27 13:48	0°♿		max. Earth dist.	11127 Apr 27 22:30	11°♿40'27	1.45632 AU
morning set	11126 May 02 18:17	7°♿56'59					
max. Earth dist.	11126 May 15 04:06	27°♿16'23	1.44936 AU	superior conj	11127 Apr 28 13:32	12°♿39'18	-2°02'31
	11126 May 16 21:29	0°♿		minimum elong	11127 Apr 28 06:12	12°♿10'35	2°02'30
					11127 May 09 14:09	0°♿	
superior conj	11126 May 19 04:13	3°♿37'42	-2°13'13	evening rise	11127 May 14 02:30	7°♿10'35	
minimum elong	11126 May 19 04:05	3°♿37'12	2°13'46	greatest brilliancy	11127 May 21 23:45	19°♿43'45	-0.9m
evening rise	11126 Jun 02 06:31	26°♿40'14			11127 May 28 16:59	0°♿	
	11126 Jun 04 06:23	0°♿		asc. node	11127 May 31 06:57	3°♿35'53	
asc. node	11126 Jun 13 09:53	14°♿56'23		evening max el	11127 Jun 04 10:57	8°♿31'15	18°43'22
evening max el	11126 Jun 20 23:04	24°♿53'52	18°14'50	retrograde	11127 Jun 11 01:18	12°♿07'52	
retrograde	11126 Jun 27 07:49	28°♿16'16		evening set	11127 Jun 14 08:09	11°♿06'07	
evening set	11126 Jun 30 06:27	27°♿29'41		inferior conj	11127 Jun 19 22:47	5°♿27'15	3°07'55
inferior conj	11126 Jul 06 05:45	22°♿06'59	2°43'38	minimum elong	11127 Jun 20 00:07	5°♿23'07	3°07'07
minimum elong	11126 Jul 06 08:06	22°♿00'21	2°42'32	min. Earth dist.	11127 Jun 21 20:11	3°♿07'16	0.65669 AU
min. Earth dist.	11126 Jul 08 18:01	19°♿17'25	0.63816 AU		11127 Jun 24 15:52	30°♿♿	
morning rise	11126 Jul 12 08:17	15°♿51'14		morning rise	11127 Jun 25 15:19	29°♿06'23	
desc. node	11126 Jul 17 02:35	13°♿26'55		direct	11127 Jul 02 01:59	26°♿23'07	
direct	11126 Jul 19 00:32	13°♿14'31		desc. node	11127 Jul 03 23:44	26°♿35'44	
morning max el	11126 Aug 01 20:37	21°♿16'31	27°39'58		11127 Jul 10 14:28	0°♿	
	11126 Aug 09 10:19	0°♿		morning max el	11127 Jul 15 07:20	4°♿12'55	26°50'36
	11126 Aug 28 22:25	0°♿			11127 Aug 03 21:17	0°♿	
morning set	11126 Sep 05 18:22	14°♿46'13		morning set	11127 Aug 20 01:49	27°♿56'55	
asc. node	11126 Sep 09 10:11	22°♿12'58			11127 Aug 21 03:26	0°♿	
max. Earth dist.	11126 Sep 10 15:38	24°♿47'00	1.32648 AU	max. Earth dist.	11127 Aug 24 06:38	6°♿10'24	1.34036 AU
	11126 Sep 13 02:29	0°♿		asc. node	11127 Aug 27 06:56	12°♿18'33	
superior conj	11126 Sep 13 16:52	1°♿17'24	0°41'04	superior conj	11127 Aug 28 17:34	15°♿18'32	0°14'05
minimum elong	11126 Sep 13 15:03	1°♿07'41	0°40'41	minimum elong	11127 Aug 28 16:51	15°♿14'43	0°13'43
evening rise	11126 Sep 20 15:49	16°♿21'06		behind sun begin	11127 Aug 28 13:50	14°♿59'01	
	11126 Sep 27 08:45	0°♿		behind sun end	11127 Aug 28 19:51	15°♿30'25	
desc. node	11126 Oct 12 23:58	22°♿58'08			11127 Sep 04 16:19	0°♿	
evening max el	11126 Oct 13 07:57	23°♿17'42	23°03'29	evening rise	11127 Sep 05 01:57	0°♿50'42	
retrograde	11126 Oct 26 14:39	29°♿54'14			11127 Sep 21 19:05	0°♿	
evening set	11126 Oct 30 15:02	29°♿19'11		evening max el	11127 Sep 24 23:31	3°♿31'44	21°26'26
min. Earth dist.	11126 Nov 06 17:09	26°♿03'50	0.55172 AU	desc. node	11127 Sep 29 21:17	7°♿25'13	
inferior conj	11126 Nov 08 03:36	25°♿14'10	-5°47'13	retrograde	11127 Oct 07 03:11	9°♿33'59	
minimum elong	11126 Nov 08 01:49	25°♿16'43	5°46'39	evening set	11127 Oct 09 19:20	9°♿17'35	
morning rise	11126 Nov 16 14:16	21°♿24'15		inferior conj	11127 Oct 18 20:30	5°♿21'59	-5°06'08
direct	11126 Nov 19 14:52	21°♿02'40		minimum elong	11127 Oct 18 11:35	5°♿34'28	5°03'59
morning max el	11126 Nov 30 18:12	26°♿19'12	20°44'51	min. Earth dist.	11127 Oct 19 00:02	5°♿17'01	0.54598 AU
	11126 Dec 04 03:44	0°♿		morning rise	11127 Oct 27 04:42	1°♿32'38	
asc. node	11126 Dec 06 10:45	2°♿59'45		direct	11127 Oct 30 23:40	1°♿01'36	
morning set	11126 Dec 19 21:45	27°♿11'53		morning max el	11127 Nov 12 13:33	7°♿01'27	22°22'22
	11126 Dec 21 06:11	0°♿		asc. node	11127 Nov 23 07:41	20°♿56'23	
					11127 Nov 28 10:13	0°♿	
superior conj	11126 Dec 27 08:05	12°♿36'45	1°26'18	morning set	11127 Dec 04 08:26	11°♿59'07	
minimum elong	11126 Dec 27 10:22	12°♿48'25	1°26'44				
max. Earth dist.	11127 Jan 01 09:59	22°♿45'23	1.35906 AU	superior conj	11127 Dec 11 09:35	27°♿01'59	1°36'13
evening rise	11127 Jan 05 08:20	0°♿12'56		minimum elong	11127 Dec 11 10:46	27°♿08'14	1°36'48
	11127 Jan 05 05:33	0°♿			11127 Dec 12 19:20	0°♿	
desc. node	11127 Jan 08 22:34	6°♿42'51		max. Earth dist.	11127 Dec 15 01:04	4°♿39'04	1.34115 AU

evening rise	11127 Dec 19 12:24	13° ♄ 35'40		superior conj	11128 Nov 24 16:45	11° ♄ 41'39	1°39'29
desc. node	11127 Dec 26 19:28	27° ♄ 03'13		minimum elong	11128 Nov 24 16:45	11° ♄ 41'40	1°40'04
	11127 Dec 28 12:26	0° ♄		max. Earth dist.	11128 Nov 27 00:02	16° ♄ 40'42	1.32743 AU
	11128 Jan 18 07:56	0° ♄		evening rise	11128 Dec 02 03:58	27° ♄ 27'48	
evening max el	11128 Jan 23 09:22	5° ♄ 22'42	27°03'02		11128 Dec 03 10:20	0° ♄	
retrograde	11128 Feb 05 17:30	12° ♄ 45'34		desc. node	11128 Dec 12 16:30	17° ♄ 06'35	
evening set	11128 Feb 12 08:40	10° ♄ 12'07			11128 Dec 20 18:40	0° ♄	
min. Earth dist.	11128 Feb 16 07:40	6° ♄ 22'55	0.65494 AU	evening max el	11129 Jan 04 21:38	18° ♄ 40'30	27°29'10
inferior conj	11128 Feb 18 11:39	3° ♄ 55'35	-0°15'24	retrograde	11129 Jan 18 14:16	26° ♄ 03'07	
minimum elong	11128 Feb 18 12:05	3° ♄ 54'21	0°14'53	evening set	11129 Jan 25 12:27	23° ♄ 33'32	
transit middle	11128 Feb 18 12:05	3° ♄ 54'21	0°14'53	min. Earth dist.	11129 Jan 29 07:14	20° ♄ 15'28	0.63765 AU
transit begin	11128 Feb 18 10:58	3° ♄ 57'30		inferior conj	11129 Jan 31 22:30	17° ♄ 33'25	-1°23'30
transit end	11128 Feb 18 13:11	3° ♄ 51'12		minimum elong	11129 Feb 01 01:10	17° ♄ 26'34	1°21'55
asc. node	11128 Feb 19 06:24	3° ♄ 02'43		asc. node	11129 Feb 05 03:39	13° ♄ 41'09	
	11128 Feb 22 07:07	30° ♄		morning rise	11129 Feb 07 15:58	12° ♄ 14'44	
morning rise	11128 Feb 24 16:52	28° ♄ 21'57		direct	11129 Feb 10 02:06	11° ♄ 45'48	
direct	11128 Feb 27 10:52	27° ♄ 41'10		morning max el	11129 Feb 16 13:36	15° ♄ 06'23	17°48'18
	11128 Mar 03 16:31	0° ♄			11129 Feb 27 02:32	0° ♄	
morning max el	11128 Mar 04 20:02	1° ♄ 02'35	18°04'21	morning set	11129 Mar 05 03:31	10° ♄ 14'53	
morning set	11128 Mar 23 04:48	28° ♄ 08'00		desc. node	11129 Mar 10 16:58	19° ♄ 41'39	
desc. node	11128 Mar 23 20:16	29° ♄ 11'03			11129 Mar 16 22:02	0° ♄	
	11128 Mar 24 08:17	0° ♄					
superior conj	11128 Apr 06 22:00	21° ♄ 45'14	-1°33'03	superior conj	11129 Mar 17 22:52	1° ♄ 41'15	-0°52'43
minimum elong	11128 Apr 06 12:43	21° ♄ 08'38	1°32'15	minimum elong	11129 Mar 17 17:16	1° ♄ 18'24	0°51'53
max. Earth dist.	11128 Apr 09 18:43	26° ♄ 15'08	1.45578 AU	max. Earth dist.	11129 Mar 23 13:36	10° ♄ 42'13	1.44792 AU
	11128 Apr 12 04:14	0° ♄		evening rise	11129 Apr 02 12:30	26° ♄ 13'05	
evening rise	11128 Apr 23 00:55	16° ♄ 51'29			11129 Apr 04 23:54	0° ♄	
	11128 May 01 13:58	0° ♄			11129 Apr 25 17:36	0° ♄	
greatest brilliancy	11128 May 05 23:28	6° ♄ 38'13	-0.7m	evening max el	11129 Apr 30 20:34	5° ♄ 57'01	20°29'09
asc. node	11128 May 17 04:05	21° ♄ 36'06		asc. node	11129 May 04 01:18	8° ♄ 44'39	
evening max el	11128 May 17 18:32	22° ♄ 13'24	19°28'46	retrograde	11129 May 08 21:36	10° ♄ 36'59	
retrograde	11128 May 24 22:44	26° ♄ 16'41		evening set	11129 May 12 22:29	9° ♄ 03'34	
evening set	11128 May 28 14:15	24° ♄ 59'08		inferior conj	11129 May 18 05:19	2° ♄ 57'07	3°12'31
inferior conj	11128 Jun 02 23:33	19° ♄ 05'37	3°16'37	minimum elong	11129 May 18 04:28	3° ♄ 00'03	3°11'55
minimum elong	11128 Jun 02 23:44	19° ♄ 05'00	3°16'00	min. Earth dist.	11129 May 18 21:43	2° ♄ 00'48	0.68085 AU
min. Earth dist.	11128 Jun 04 06:01	17° ♄ 25'10	0.67105 AU		11129 May 20 09:53	30° ♄	
morning rise	11128 Jun 08 08:50	12° ♄ 44'26		morning rise	11129 May 23 10:12	26° ♄ 38'38	
direct	11128 Jun 14 09:46	10° ♄ 05'00		direct	11129 May 28 23:04	24° ♄ 11'18	
desc. node	11128 Jun 19 20:48	11° ♄ 48'34		desc. node	11129 Jun 06 17:49	28° ♄ 36'16	
morning max el	11128 Jun 26 17:51	17° ♄ 28'13	25°37'58		11129 Jun 08 06:02	0° ♄	
	11128 Jul 07 05:09	0° ♄		morning max el	11129 Jun 09 03:40	0° ♄ 53'32	24°11'47
	11128 Jul 26 20:44	0° ♄			11129 Jul 01 03:22	0° ♄	
morning set	11128 Aug 01 18:57	10° ♄ 26'14		morning set	11129 Jul 14 17:03	22° ♄ 01'50	
max. Earth dist.	11128 Aug 05 11:36	17° ♄ 17'54	1.35886 AU	max. Earth dist.	11129 Jul 18 09:34	28° ♄ 30'58	1.38073 AU
					11129 Jul 19 05:23	0° ♄	
superior conj	11128 Aug 11 09:48	28° ♄ 52'16	-0°16'51	superior conj	11129 Jul 25 14:09	11° ♄ 49'57	-0°50'11
minimum elong	11128 Aug 11 10:51	28° ♄ 57'31	0°17'01	minimum elong	11129 Jul 25 17:32	12° ♄ 06'07	0°50'07
	11128 Aug 11 23:17	0° ♄		asc. node	11129 Jul 31 00:33	22° ♄ 24'57	
asc. node	11128 Aug 13 03:43	2° ♄ 23'56		evening rise	11129 Aug 03 09:41	29° ♄ 06'28	
evening rise	11128 Aug 19 08:47	15° ♄ 08'19			11129 Aug 03 20:32	0° ♄	
	11128 Aug 27 00:11	0° ♄		evening max el	11129 Aug 19 21:07	25° ♄ 59'40	19°04'37
evening max el	11128 Sep 06 03:29	14° ♄ 22'10	20°05'08		11129 Aug 25 23:14	0° ♄	
desc. node	11128 Sep 15 18:37	19° ♄ 34'42		retrograde	11129 Aug 28 19:06	0° ♄ 26'20	
retrograde	11128 Sep 16 16:50	19° ♄ 37'01		evening set	11129 Aug 30 15:42	0° ♄ 15'32	
evening set	11128 Sep 18 15:30	19° ♄ 27'07			11129 Aug 31 17:22	30° ♄	
inferior conj	11128 Sep 27 15:32	15° ♄ 27'56	-3°34'21	desc. node	11129 Sep 02 15:59	29° ♄ 16'18	
minimum elong	11128 Sep 27 06:24	15° ♄ 41'36	3°31'11	inferior conj	11129 Sep 08 01:44	26° ♄ 01'57	-1°41'22
min. Earth dist.	11128 Sep 29 08:58	14° ♄ 25'54	0.54959 AU	minimum elong	11129 Sep 07 21:20	26° ♄ 09'30	1°39'44
morning rise	11128 Oct 05 20:11	11° ♄ 17'48		min. Earth dist.	11129 Sep 10 22:09	24° ♄ 05'08	0.56212 AU
direct	11128 Oct 10 10:21	10° ♄ 32'07		morning rise	11129 Sep 15 23:54	21° ♄ 16'18	
morning max el	11128 Oct 24 01:27	17° ♄ 13'00	24°09'55	direct	11129 Sep 21 09:28	20° ♄ 08'09	
	11128 Nov 03 10:04	0° ♄		morning max el	11129 Oct 05 13:42	27° ♄ 23'09	25°50'59
asc. node	11128 Nov 09 04:35	9° ♄ 34'57			11129 Oct 08 03:03	0° ♄	
morning set	11128 Nov 17 20:17	26° ♄ 46'58		asc. node	11129 Oct 27 01:27	28° ♄ 44'10	
	11128 Nov 19 08:11	0° ♄			11129 Oct 27 17:06	0° ♄	
				morning set	11129 Nov 02 07:33	11° ♄ 29'32	

superior conj	11129 Nov 09 03:11	26° \mathbb{M} 27'43	1°36'36		11130 Oct 03 22:03	0° \mathbb{L}	
minimum elong	11129 Nov 09 02:09	26° \mathbb{M} 21'56	1°37'03	asc. node	11130 Oct 13 22:16	18° \mathbb{L} 15'59	
max. Earth dist.	11129 Nov 10 05:21	28° \mathbb{M} 52'23	1.31840 AU	morning set	11130 Oct 17 16:31	26° \mathbb{L} 02'09	
	11129 Nov 10 17:37	0° \mathbb{X}			11130 Oct 19 12:49	0° \mathbb{M}	
evening rise	11129 Nov 16 03:55	11° \mathbb{X} 40'41					
	11129 Nov 25 15:02	0° \mathbb{Z}		superior conj	11130 Oct 24 14:56	11° \mathbb{M} 14'09	1°27'59
desc. node	11129 Nov 29 13:34	6° \mathbb{Z} 44'46		minimum elong	11130 Oct 24 13:06	11° \mathbb{M} 04'00	1°28'11
	11129 Dec 16 20:10	0° \approx		max. Earth dist.	11130 Oct 24 14:08	11° \mathbb{M} 09'43	1.31426 AU
evening max el	11129 Dec 18 06:34	1° \approx 24'17	27°24'58	evening rise	11130 Oct 31 09:44	26° \mathbb{M} 07'35	
retrograde	11130 Jan 01 03:41	8° \approx 41'14			11130 Nov 02 05:57	0° \mathbb{X}	
evening set	11130 Jan 08 03:32	6° \approx 24'24		desc. node	11130 Nov 16 10:42	25° \mathbb{X} 47'48	
min. Earth dist.	11130 Jan 11 20:53	3° \approx 31'36	0.61769 AU		11130 Nov 19 06:20	0° \mathbb{Z}	
inferior conj	11130 Jan 14 21:10	0° \approx 47'12	-2°38'30	evening max el	11130 Nov 30 09:41	13° \mathbb{Z} 22'46	26°46'41
minimum elong	11130 Jan 15 02:32	0° \approx 34'56	2°35'51	retrograde	11130 Dec 14 08:15	20° \mathbb{Z} 31'13	
	11130 Jan 15 18:01	30° \mathbb{R} \mathbb{Z}		evening set	11130 Dec 21 02:04	18° \mathbb{Z} 36'39	
morning rise	11130 Jan 22 04:11	25° \mathbb{Z} 46'23		min. Earth dist.	11130 Dec 24 23:57	15° \mathbb{Z} 59'00	0.59645 AU
asc. node	11130 Jan 23 00:53	25° \mathbb{Z} 33'17		inferior conj	11130 Dec 28 04:07	13° \mathbb{Z} 27'35	-3°55'17
direct	11130 Jan 24 08:46	25° \mathbb{Z} 25'32		minimum elong	11130 Dec 28 11:50	13° \mathbb{Z} 12'14	3°52'13
morning max el	11130 Jan 31 06:27	28° \mathbb{Z} 55'11	17°50'07	morning rise	11131 Jan 05 00:21	8° \mathbb{Z} 47'22	
	11130 Feb 01 07:17	0° \approx		direct	11131 Jan 07 02:56	8° \mathbb{Z} 30'57	
morning set	11130 Feb 15 23:41	23° \approx 22'34		asc. node	11131 Jan 09 22:04	9° \mathbb{Z} 01'14	
	11130 Feb 19 16:28	0° \mathbb{X}		morning max el	11131 Jan 14 18:56	12° \mathbb{Z} 18'58	18°11'03
desc. node	11130 Feb 25 13:41	10° \mathbb{X} 19'12			11131 Jan 26 14:14	0° \approx	
				morning set	11131 Jan 30 11:09	7° \approx 12'32	
superior conj	11130 Feb 27 00:09	12° \mathbb{X} 46'59	-0°10'58				
minimum elong	11130 Feb 26 23:09	12° \mathbb{X} 42'43	0°10'34	superior conj	11131 Feb 09 01:04	24° \approx 58'44	0°26'04
behind sun begin	11130 Feb 26 16:38	12° \mathbb{X} 14'52		minimum elong	11131 Feb 09 03:01	25° \approx 07'28	0°26'10
behind sun end	11130 Feb 27 05:40	13° \mathbb{X} 10'30			11131 Feb 11 20:46	0° \mathbb{X}	
max. Earth dist.	11130 Mar 06 04:54	24° \mathbb{X} 46'19	1.43365 AU	desc. node	11131 Feb 12 10:23	0° \mathbb{X} 59'48	
	11130 Mar 09 10:50	0° \mathbb{Y}		max. Earth dist.	11131 Feb 16 15:48	8° \mathbb{X} 15'41	1.41461 AU
evening rise	11130 Mar 13 04:53	5° \mathbb{Y} 55'01		evening rise	11131 Feb 21 14:06	16° \mathbb{X} 24'47	
	11130 Mar 29 07:14	0° \mathbb{B}			11131 Mar 02 06:08	0° \mathbb{Y}	
evening max el	11130 Apr 13 17:07	19° \mathbb{B} 41'55	21°41'18		11131 Mar 24 03:50	0° \mathbb{B}	
asc. node	11130 Apr 20 22:32	24° \mathbb{B} 46'46		evening max el	11131 Mar 27 09:26	3° \mathbb{B} 28'45	23°00'28
retrograde	11130 Apr 22 19:50	25° \mathbb{B} 04'00		retrograde	11131 Apr 06 15:46	9° \mathbb{B} 32'29	
evening set	11130 Apr 27 07:04	23° \mathbb{B} 15'05		asc. node	11131 Apr 07 19:49	9° \mathbb{B} 25'57	
inferior conj	11130 May 02 13:50	16° \mathbb{B} 57'56	2°57'25	evening set	11131 Apr 11 14:21	7° \mathbb{B} 28'53	
minimum elong	11130 May 02 12:11	17° \mathbb{B} 03'40	2°56'44	inferior conj	11131 Apr 16 23:03	1° \mathbb{B} 03'50	2°32'19
min. Earth dist.	11130 May 02 17:05	16° \mathbb{B} 46'34	0.68606 AU	minimum elong	11131 Apr 16 20:56	1° \mathbb{B} 11'06	2°31'31
morning rise	11130 May 07 17:06	10° \mathbb{B} 44'06		min. Earth dist.	11131 Apr 16 13:49	1° \mathbb{B} 35'45	0.68679 AU
direct	11130 May 12 16:51	8° \mathbb{B} 34'37			11131 Apr 17 17:33	30° \mathbb{R} \mathbb{Y}	
morning max el	11130 May 22 14:23	14° \mathbb{B} 25'51	22°41'58	morning rise	11131 Apr 22 03:25	24° \mathbb{Y} 56'07	
desc. node	11130 May 24 14:45	16° \mathbb{B} 33'46		direct	11131 Apr 26 13:51	23° \mathbb{Y} 07'39	
	11130 Jun 04 04:57	0° \mathbb{I}		morning max el	11131 May 05 05:19	28° \mathbb{Y} 07'05	21°17'02
	11130 Jun 24 02:03	0° \mathbb{E}			11131 May 07 00:16	0° \mathbb{B}	
morning set	11130 Jun 25 15:07	2° \mathbb{E} 31'18		desc. node	11131 May 11 11:35	5° \mathbb{B} 21'28	
max. Earth dist.	11130 Jun 30 07:04	10° \mathbb{E} 19'09	1.40376 AU		11131 May 28 19:05	0° \mathbb{I}	
				morning set	11131 Jun 05 10:50	11° \mathbb{I} 49'19	
superior conj	11130 Jul 08 02:31	24° \mathbb{E} 02'23	-1°23'20	max. Earth dist.	11131 Jun 12 10:10	23° \mathbb{I} 00'57	1.42515 AU
minimum elong	11130 Jul 08 08:13	24° \mathbb{E} 28'11	1°23'09		11131 Jun 16 15:13	0° \mathbb{E}	
	11130 Jul 11 08:34	0° \mathbb{Q}					
asc. node	11130 Jul 17 21:26	12° \mathbb{Q} 17'59		superior conj	11131 Jun 19 18:14	5° \mathbb{E} 18'23	-1°52'02
evening rise	11130 Jul 18 01:28	12° \mathbb{Q} 37'06		minimum elong	11131 Jun 20 00:46	5° \mathbb{E} 46'27	1°52'05
	11130 Jul 27 17:36	0° \mathbb{P}		evening rise	11131 Jul 01 03:56	25° \mathbb{E} 29'07	
evening max el	11130 Aug 03 01:31	8° \mathbb{P} 20'25	18°25'22		11131 Jul 03 16:01	0° \mathbb{Q}	
retrograde	11130 Aug 10 16:05	12° \mathbb{P} 09'43		asc. node	11131 Jul 04 18:19	1° \mathbb{Q} 57'52	
evening set	11130 Aug 12 18:23	11° \mathbb{P} 53'07		evening max el	11131 Jul 17 12:28	21° \mathbb{Q} 13'43	18°06'19
inferior conj	11130 Aug 20 09:20	7° \mathbb{P} 19'29	0°03'02	retrograde	11131 Jul 24 06:59	24° \mathbb{Q} 41'00	
minimum elong	11130 Aug 20 09:26	7° \mathbb{P} 19'17	0°02'42	evening set	11131 Jul 26 17:05	24° \mathbb{Q} 14'46	
transit middle	11130 Aug 20 09:26	7° \mathbb{P} 19'17	0°02'42	inferior conj	11131 Aug 02 13:49	19° \mathbb{Q} 20'29	1°24'32
transit begin	11130 Aug 20 05:56	7° \mathbb{P} 26'17		minimum elong	11131 Aug 02 16:10	19° \mathbb{Q} 15'00	1°23'17
transit end	11130 Aug 20 12:56	7° \mathbb{P} 12'15		min. Earth dist.	11131 Aug 05 19:47	16° \mathbb{Q} 20'03	0.60355 AU
desc. node	11130 Aug 20 13:18	7° \mathbb{P} 11'31		desc. node	11131 Aug 07 10:35	14° \mathbb{Q} 58'24	
min. Earth dist.	11130 Aug 23 17:11	4° \mathbb{P} 40'26	0.58123 AU	morning rise	11131 Aug 09 12:21	13° \mathbb{Q} 29'31	
morning rise	11130 Aug 27 20:57	1° \mathbb{P} 57'20		direct	11131 Aug 16 01:26	11° \mathbb{Q} 24'41	
direct	11130 Sep 02 23:19	0° \mathbb{P} 20'49		morning max el	11131 Aug 30 08:42	19° \mathbb{Q} 19'27	27°50'45
morning max el	11130 Sep 17 07:37	8° \mathbb{P} 00'01	27°08'21		11131 Sep 08 10:21	0° \mathbb{P}	

	11131 Sep 26 17:53	0°♄		morning max el	11132 Aug 11 15:43	1°♄23'44	27°54'31
asc. node	11131 Sep 30 19:02	8°♄03'46			11132 Sep 01 16:00	0°♄	
morning set	11131 Oct 01 21:24	10°♄20'13		morning set	11132 Sep 14 20:04	24°♄17'38	
max. Earth dist.	11131 Oct 07 22:51	23°♄24'25	1.31504 AU	asc. node	11132 Sep 16 15:45	28°♄01'46	
					11132 Sep 17 14:23	0°♄	
superior conj	11131 Oct 09 02:07	25°♄55'25	1°13'53	max. Earth dist.	11132 Sep 20 03:30	5°♄25'02	1.32083 AU
minimum elong	11131 Oct 08 23:54	25°♄43'06	1°13'48				
	11131 Oct 10 22:09	0°♄		superior conj	11132 Sep 22 10:52	10°♄25'29	0°54'31
evening rise	11131 Oct 15 19:16	10°♄42'39		minimum elong	11132 Sep 22 08:45	10°♄13'53	0°54'12
	11131 Oct 25 12:32	0°♄		evening rise	11132 Sep 29 06:29	25°♄19'36	
desc. node	11131 Nov 03 07:54	14°♄02'19			11132 Oct 01 11:23	0°♄	
evening max el	11131 Nov 12 04:49	24°♄29'42	25°35'48		11132 Oct 19 06:05	0°♄	
	11131 Nov 19 20:36	0°♄		desc. node	11132 Oct 20 05:09	1°♄08'57	
retrograde	11131 Nov 26 01:58	1°♄29'25		evening max el	11132 Oct 23 16:33	4°♄51'15	24°01'42
evening set	11131 Dec 02 03:27	0°♄04'43		retrograde	11132 Nov 06 07:28	11°♄39'55	
	11131 Dec 02 07:34	30°♄♂		evening set	11132 Nov 11 04:25	10°♄47'54	
min. Earth dist.	11131 Dec 06 17:08	27°♄27'18	0.57593 AU	min. Earth dist.	11132 Nov 17 03:11	7°♄51'43	0.55882 AU
inferior conj	11131 Dec 09 16:04	25°♄25'05	-5°03'14	inferior conj	11132 Nov 19 07:23	6°♄32'31	-5°44'24
minimum elong	11131 Dec 09 23:48	25°♄11'44	5°00'59	minimum elong	11132 Nov 19 10:22	6°♄27'58	5°43'37
morning rise	11131 Dec 17 22:30	21°♄07'22		morning rise	11132 Nov 27 18:19	2°♄35'24	
direct	11131 Dec 20 04:23	20°♄51'54		direct	11132 Nov 30 10:10	2°♄17'17	
asc. node	11131 Dec 27 19:10	24°♄03'38		morning max el	11132 Dec 10 15:45	7°♄08'58	19°57'32
morning max el	11131 Dec 28 23:17	25°♄07'17	18°52'58	asc. node	11132 Dec 13 16:11	10°♄25'58	
	11132 Jan 02 02:48	0°♄			11132 Dec 25 13:02	0°♄	
morning set	11132 Jan 14 09:09	21°♄30'51		morning set	11132 Dec 28 14:03	6°♄05'48	
	11132 Jan 18 16:51	0°♄					
superior conj	11132 Jan 22 21:20	8°♄04'45	0°55'40	superior conj	11133 Jan 05 08:01	21°♄50'15	1°17'19
minimum elong	11132 Jan 23 00:19	8°♄18'57	0°55'47	minimum elong	11133 Jan 05 10:46	22°♄03'58	1°17'38
max. Earth dist.	11132 Jan 29 23:13	21°♄05'14	1.39287 AU	max. Earth dist.	11133 Jan 09 12:10	0°♄	
desc. node	11132 Jan 30 07:09	21°♄40'19		evening rise	11133 Jan 11 05:43	3°♄16'58	1.37088 AU
evening rise	11132 Feb 02 20:40	27°♄51'12		desc. node	11133 Jan 14 23:30	10°♄09'14	
	11132 Feb 04 03:07	0°♄			11133 Jan 16 03:58	12°♄16'13	
	11132 Feb 23 18:24	0°♄			11133 Jan 26 19:51	0°♄	
evening max el	11132 Mar 08 23:28	17°♄18'34	24°20'33	evening max el	11133 Feb 18 09:26	0°♄	
retrograde	11132 Mar 20 08:18	23°♄58'06		retrograde	11133 Feb 19 12:44	1°♄08'30	25°34'57
asc. node	11132 Mar 24 17:05	22°♄30'58		evening set	11133 Mar 03 20:26	8°♄14'23	
evening set	11132 Mar 25 18:51	21°♄41'26		asc. node	11133 Mar 09 18:57	5°♄47'28	
min. Earth dist.	11132 Mar 30 09:46	16°♄23'46	0.68318 AU	min. Earth dist.	11133 Mar 11 14:22	4°♄03'26	
inferior conj	11132 Mar 31 07:07	15°♄11'59	1°57'40		11133 Mar 14 02:48	1°♄04'51	0.67527 AU
minimum elong	11132 Mar 31 04:59	15°♄19'11	1°56'53	inferior conj	11133 Mar 14 23:08	30°♄♂	
morning rise	11132 Apr 05 15:13	9°♄11'43		minimum elong	11133 Mar 15 12:08	29°♄18'16	1°13'31
direct	11132 Apr 09 12:50	7°♄44'56		morning rise	11133 Mar 15 10:29	29°♄23'33	1°12'58
morning max el	11132 Apr 17 03:27	12°♄00'57	20°03'14	direct	11133 Mar 21 02:31	23°♄26'48	
desc. node	11132 Apr 27 08:23	24°♄46'08		morning max el	11133 Mar 24 12:15	22°♄20'20	
	11132 Apr 30 23:44	0°♄			11133 Mar 31 09:25	26°♄05'32	19°04'08
morning set	11132 May 14 12:08	20°♄21'32		greatest brilliancy	11133 Apr 03 21:06	0°♄	
	11132 May 20 16:58	0°♄		desc. node	11133 Apr 13 15:16	13°♄45'21	-0.7m
max. Earth dist.	11132 May 24 20:39	6°♄34'17	1.44227 AU	morning set	11133 Apr 14 05:07	14°♄37'36	
					11133 Apr 23 15:51	29°♄08'13	
superior conj	11132 May 30 09:57	15°♄31'50	-2°10'11	max. Earth dist.	11133 Apr 24 05:13	0°♄	
minimum elong	11132 May 30 13:36	15°♄46'44	2°10'41		11133 May 07 12:37	20°♄43'33	1.45320 AU
	11132 Jun 08 02:32	0°♄		superior conj	11133 May 10 03:30	24°♄50'59	-2°11'12
evening rise	11132 Jun 12 12:22	7°♄31'48		minimum elong	11133 May 10 00:05	24°♄37'30	2°11'38
asc. node	11132 Jun 20 15:16	21°♄19'33			11133 May 13 09:33	0°♄	
	11132 Jun 26 07:31	0°♄		evening rise	11133 May 24 22:18	18°♄36'20	
evening max el	11132 Jun 30 02:09	4°♄29'51	18°06'24		11133 May 31 21:50	0°♄	
retrograde	11132 Jul 06 11:40	7°♄50'11		asc. node	11133 Jun 07 12:17	10°♄16'46	
evening set	11132 Jul 09 05:42	7°♄11'35		evening max el	11133 Jun 13 15:24	18°♄01'00	18°24'49
inferior conj	11132 Jul 15 11:40	1°♄58'27	2°21'09	retrograde	11133 Jun 20 01:38	21°♄28'17	
minimum elong	11132 Jul 15 14:21	1°♄51'20	2°19'53	evening set	11133 Jun 23 03:38	20°♄35'28	
	11132 Jul 17 08:06	30°♄♂		inferior conj	11133 Jun 28 22:47	15°♄05'32	2°56'03
min. Earth dist.	11132 Jul 18 07:31	28°♄59'16	0.62603 AU	minimum elong	11133 Jun 29 00:45	14°♄59'45	2°55'05
morning rise	11132 Jul 21 21:02	25°♄48'51		min. Earth dist.	11133 Jul 01 04:48	12°♄26'53	0.64641 AU
desc. node	11132 Jul 24 07:50	24°♄20'11		morning rise	11133 Jul 04 20:43	8°♄46'34	
direct	11132 Jul 28 13:51	23°♄21'22		direct	11133 Jul 11 11:01	6°♄05'48	
	11132 Aug 10 05:05	0°♄		desc. node	11133 Jul 11 05:02	6°♄06'01	

morning max el	11133 Jul 25 01:59	14°☿04'59	27°22'32	morning max el	11134 Jul 07 12:46	27°♄10'26	26°21'56
	11133 Aug 06 23:27	0°♄			11134 Jul 10 04:15	0°☿	
	11133 Aug 25 07:44	0°♄			11134 Jul 31 15:14	0°♄	
morning set	11133 Aug 29 10:01	7°♄48'01		morning set	11134 Aug 12 11:52	20°♄42'03	
max. Earth dist.	11133 Sep 03 00:17	17°♄02'41	1.33171 AU	max. Earth dist.	11134 Aug 16 10:34	28°♄15'29	1.34765 AU
asc. node	11133 Sep 03 12:28	18°♄05'45		asc. node	11134 Aug 17 07:48	0°♄	
					11134 Aug 21 09:13	8°♄11'13	
superior conj	11133 Sep 06 15:11	24°♄38'55	0°30'11	superior conj	11134 Aug 21 12:38	8°♄28'47	0°01'24
minimum elong	11133 Sep 06 13:45	24°♄31'17	0°29'46	minimum elong	11134 Aug 21 12:34	8°♄28'27	0°01'04
	11133 Sep 09 03:06	0°♄		behind sun begin	11134 Aug 21 06:40	7°♄58'06	
evening rise	11133 Sep 13 17:35	9°♄53'18		behind sun end	11134 Aug 21 18:29	8°♄58'50	
	11133 Sep 24 01:44	0°♄		evening rise	11134 Aug 29 02:33	24°♄17'41	
evening max el	11133 Oct 05 03:52	14°♄56'51	22°20'57		11134 Aug 31 21:15	0°♄	
desc. node	11133 Oct 07 02:27	16°♄42'46		evening max el	11134 Sep 17 00:11	25°♄23'18	20°49'33
retrograde	11133 Oct 18 01:18	21°♄21'49			11134 Sep 23 10:33	0°♄	
evening set	11133 Oct 21 10:42	20°♄56'25		desc. node	11134 Sep 23 23:48	0°♄13'43	
min. Earth dist.	11133 Oct 29 10:27	17°♄23'30	0.54815 AU	retrograde	11134 Sep 28 12:37	1°♄06'09	
inferior conj	11133 Oct 30 05:41	16°♄56'23	-5°37'06	evening set	11134 Sep 30 18:56	0°♄53'52	
minimum elong	11133 Oct 30 00:20	17°♄03'56	5°36'05		11134 Oct 03 22:07	30°♄	
morning rise	11133 Nov 07 15:30	13°♄09'10		inferior conj	11134 Oct 09 21:35	26°♄58'43	-4°32'00
direct	11133 Nov 10 23:19	12°♄44'20		minimum elong	11134 Oct 09 11:39	27°♄12'53	4°29'07
morning max el	11133 Nov 22 18:30	18°♄19'19	21°24'17	min. Earth dist.	11134 Oct 10 18:13	26°♄29'17	0.54631 AU
asc. node	11133 Nov 30 13:10	27°♄52'24		morning rise	11134 Oct 18 04:23	23°♄02'36	
	11133 Dec 01 22:06	0°♄		direct	11134 Oct 22 07:27	22°♄25'59	
morning set	11133 Dec 12 23:14	20°♄50'05		morning max el	11134 Nov 04 09:44	28°♄44'48	23°07'45
	11133 Dec 17 07:41	0°♄			11134 Nov 05 16:26	0°♄	
superior conj	11133 Dec 20 05:05	6°♄03'48	1°31'21	asc. node	11134 Nov 17 10:06	16°♄07'47	
minimum elong	11133 Dec 20 06:55	6°♄13'22	1°31'52		11134 Nov 24 17:59	0°♄	
max. Earth dist.	11133 Dec 24 16:12	15°♄09'31	1.35099 AU	morning set	11134 Nov 27 10:38	5°♄37'39	
evening rise	11133 Dec 28 19:25	23°♄11'04					
	11134 Jan 01 12:07	0°♄		superior conj	11134 Dec 04 09:19	20°♄35'50	1°38'22
desc. node	11134 Jan 03 00:51	2°♄43'29		minimum elong	11134 Dec 04 09:59	20°♄39'28	1°38'59
	11134 Jan 20 12:21	0°♄		max. Earth dist.	11134 Dec 07 10:28	27°♄04'20	1.33475 AU
evening max el	11134 Feb 02 02:11	14°♄53'43	26°36'25		11134 Dec 08 20:14	0°♄	
retrograde	11134 Feb 15 03:23	22°♄14'09		evening rise	11134 Dec 12 04:48	6°♄47'20	
evening set	11134 Feb 21 12:55	19°♄41'26		desc. node	11134 Dec 20 21:49	22°♄57'16	
min. Earth dist.	11134 Feb 25 14:48	15°♄33'02	0.66339 AU		11134 Dec 25 02:33	0°♄	
asc. node	11134 Feb 26 11:41	14°♄31'13		evening max el	11135 Jan 15 15:30	28°♄25'46	27°17'36
inferior conj	11134 Feb 27 12:04	13°♄18'09	0°19'48		11135 Jan 17 08:35	0°♄	
minimum elong	11134 Feb 27 11:32	13°♄19'44	0°19'50	retrograde	11135 Jan 29 04:11	5°♄49'43	
morning rise	11134 Mar 05 11:12	7°♄37'19		evening set	11135 Feb 04 22:38	3°♄17'10	
direct	11134 Mar 08 10:23	6°♄48'15			11135 Feb 08 12:38	30°♄	
morning max el	11134 Mar 14 21:52	10°♄15'19	18°21'16	min. Earth dist.	11135 Feb 08 19:42	29°♄41'23	0.64791 AU
	11134 Mar 29 01:10	0°♄		inferior conj	11135 Feb 11 04:32	27°♄06'32	-0°43'16
desc. node	11134 Apr 01 01:49	4°♄48'25		minimum elong	11135 Feb 11 05:50	27°♄02'59	0°42'19
morning set	11134 Apr 03 18:18	9°♄05'13		asc. node	11135 Feb 13 08:59	24°♄48'39	
	11134 Apr 16 23:51	0°♄		morning rise	11135 Feb 17 14:44	21°♄38'40	
				direct	11135 Feb 20 05:03	21°♄03'27	
superior conj	11134 Apr 19 10:09	3°♄48'10	-1°51'58	morning max el	11135 Feb 26 14:24	24°♄23'36	17°55'19
minimum elong	11134 Apr 19 01:06	3°♄12'47	1°51'33		11135 Mar 03 05:39	0°♄	
max. Earth dist.	11134 Apr 20 07:36	5°♄11'58	1.45696 AU	morning set	11135 Mar 16 01:57	20°♄28'54	
evening rise	11134 May 05 08:17	28°♄42'28		desc. node	11135 Mar 18 22:30	25°♄13'11	
	11134 May 06 04:02	0°♄			11135 Mar 21 20:09	0°♄	
greatest brilliancy	11134 May 15 14:27	14°♄44'05	-0.8m				
asc. node	11134 May 25 09:24	28°♄40'46		superior conj	11135 Mar 30 00:00	13°♄11'31	-1°16'40
	11134 May 26 12:12	0°♄		minimum elong	11135 Mar 29 15:51	12°♄39'02	1°15'46
evening max el	11134 May 28 01:38	1°♄40'33	19°00'45	max. Earth dist.	11135 Apr 03 03:22	19°♄44'46	1.45331 AU
retrograde	11134 Jun 03 21:08	5°♄27'21			11135 Apr 09 17:04	0°♄	
evening set	11134 Jun 07 07:29	4°♄19'08		evening rise	11135 Apr 15 00:21	8°♄10'39	
	11134 Jun 11 16:09	30°♄			11135 Apr 29 11:10	0°♄	
inferior conj	11134 Jun 12 19:29	28°♄34'00	3°13'19	greatest brilliancy	11135 Apr 29 14:22	0°♄11'40	-0.6m
minimum elong	11134 Jun 12 20:20	28°♄31'18	3°12'36	evening max el	11135 May 11 07:04	15°♄24'12	19°52'50
min. Earth dist.	11134 Jun 14 10:34	26°♄29'36	0.66330 AU	asc. node	11135 May 12 06:36	16°♄21'01	
morning rise	11134 Jun 18 08:33	22°♄12'19		retrograde	11135 May 18 19:21	19°♄41'46	
direct	11134 Jun 24 15:30	19°♄29'13		evening set	11135 May 22 14:45	18°♄17'32	
desc. node	11134 Jun 28 02:11	20°♄10'36		inferior conj	11135 May 27 22:43	12°♄18'33	3°16'17

minimum elong	11135 May 27 22:26	12° Π 19'29	3°15'41	min. Earth dist.	11136 May 11 16:34	25° \mathcal{B} 37'00	0.68373 AU
min. Earth dist.	11135 May 28 23:09	10° Π 56'23	0.67585 AU	morning rise	11136 May 16 09:47	19° \mathcal{B} 57'32	
morning rise	11135 Jun 02 05:47	5° Π 58'20		direct	11136 May 21 17:12	17° \mathcal{B} 37'20	
direct	11135 Jun 08 01:57	3° Π 22'54		desc. node	11136 May 31 20:10	23° \mathcal{B} 26'59	
desc. node	11135 Jun 14 23:13	6° Π 07'15		morning max el	11136 Jun 01 08:30	23° \mathcal{B} 57'43	23°33'24
morning max el	11135 Jun 19 22:42	10° Π 29'57	25°02'14		11136 Jun 06 17:26	0° Π	
	11135 Jul 05 10:27	0° \mathcal{E}			11136 Jun 27 20:11	0° \mathcal{E}	
	11135 Jul 24 07:04	0° \mathcal{O}		morning set	11136 Jul 06 09:50	13° \mathcal{E} 57'47	
morning set	11135 Jul 25 21:28	2° \mathcal{O} 49'31		max. Earth dist.	11136 Jul 10 08:53	20° \mathcal{E} 46'25	1.39063 AU
max. Earth dist.	11135 Jul 29 11:33	9° \mathcal{O} 20'01	1.36792 AU		11136 Jul 15 12:30	0° \mathcal{O}	
superior conj	11135 Aug 05 00:16	21° \mathcal{O} 48'07	-0°30'49	superior conj	11136 Jul 17 22:22	4° \mathcal{O} 27'46	-1°04'29
minimum elong	11135 Aug 05 02:15	21° \mathcal{O} 57'53	0°30'54	minimum elong	11136 Jul 18 02:47	4° \mathcal{O} 48'27	1°04'20
asc. node	11135 Aug 08 06:02	28° \mathcal{O} 15'02		asc. node	11136 Jul 25 02:54	18° \mathcal{O} 13'14	
	11135 Aug 09 02:53	0° \mathcal{P}		evening rise	11136 Jul 27 04:38	22° \mathcal{O} 15'02	
evening rise	11135 Aug 13 07:11	8° \mathcal{P} 27'25			11136 Jul 31 05:37	0° \mathcal{P}	
	11135 Aug 25 03:30	0° \mathcal{A}		evening max el	11136 Aug 12 08:52	18° \mathcal{P} 29'58	18°45'18
evening max el	11135 Aug 30 10:13	6° \mathcal{A} 33'18	19°36'43	retrograde	11136 Aug 20 16:05	22° \mathcal{P} 39'10	
retrograde	11135 Sep 09 05:53	11° \mathcal{A} 26'14		evening set	11136 Aug 22 14:41	22° \mathcal{P} 26'21	
desc. node	11135 Sep 10 21:10	11° \mathcal{A} 18'41		desc. node	11136 Aug 27 18:30	20° \mathcal{P} 06'30	
evening set	11135 Sep 11 02:27	11° \mathcal{A} 16'33		inferior conj	11136 Aug 30 16:43	18° \mathcal{P} 04'05	-0°54'45
inferior conj	11135 Sep 19 21:41	7° \mathcal{A} 12'28	-2°46'53	minimum elong	11136 Aug 30 14:27	18° \mathcal{P} 08'14	0°54'02
minimum elong	11135 Sep 19 14:18	7° \mathcal{A} 24'05	2°44'09	min. Earth dist.	11136 Sep 02 19:42	15° \mathcal{P} 47'28	0.56965 AU
min. Earth dist.	11135 Sep 22 04:33	5° \mathcal{A} 46'14	0.55400 AU	morning rise	11136 Sep 07 10:52	13° \mathcal{P} 02'35	
morning rise	11135 Sep 28 00:06	2° \mathcal{A} 48'32		direct	11136 Sep 13 04:02	11° \mathcal{P} 43'06	
direct	11135 Oct 02 23:00	1° \mathcal{A} 53'58		morning max el	11136 Sep 27 10:48	19° \mathcal{P} 08'43	26°27'48
morning max el	11135 Oct 16 20:32	8° \mathcal{A} 50'02	24°54'51		11136 Oct 06 15:23	0° \mathcal{A}	
	11135 Nov 01 12:10	0° \mathcal{M}		asc. node	11136 Oct 21 03:46	24° \mathcal{A} 19'49	
asc. node	11135 Nov 04 06:58	5° \mathcal{M} 00'02			11136 Oct 23 23:21	0° \mathcal{M}	
morning set	11135 Nov 11 22:24	20° \mathcal{M} 23'07		morning set	11136 Oct 26 08:54	5° \mathcal{M} 02'13	
	11135 Nov 16 08:17	0° \mathcal{X}		superior conj	11136 Nov 02 05:17	20° \mathcal{M} 05'01	1°33'37
superior conj	11135 Nov 18 18:05	5° \mathcal{X} 18'14	1°38'58	minimum elong	11136 Nov 02 03:52	19° \mathcal{M} 57'09	1°33'59
minimum elong	11135 Nov 18 17:37	5° \mathcal{X} 15'40	1°39'31	max. Earth dist.	11136 Nov 02 19:57	21° \mathcal{M} 26'35	1.31603 AU
max. Earth dist.	11135 Nov 20 12:31	9° \mathcal{X} 10'23	1.32299 AU		11136 Nov 06 17:19	0° \mathcal{X}	
evening rise	11135 Nov 26 00:15	20° \mathcal{X} 48'48		evening rise	11136 Nov 09 02:59	5° \mathcal{X} 08'24	
	11135 Nov 30 15:27	0° \mathcal{Z}			11136 Nov 22 06:47	0° \mathcal{Z}	
desc. node	11135 Dec 07 18:51	12° \mathcal{Z} 50'44		desc. node	11136 Nov 23 15:58	2° \mathcal{Z} 15'34	
	11135 Dec 19 03:06	0° \mathcal{A}		evening max el	11136 Dec 10 09:42	23° \mathcal{Z} 56'57	27°12'55
evening max el	11135 Dec 29 02:54	11° \mathcal{A} 31'19	27°31'34		11136 Dec 19 00:20	0° \mathcal{A}	
retrograde	11136 Jan 11 21:47	18° \mathcal{A} 51'16		retrograde	11136 Dec 24 07:18	1° \mathcal{A} 09'54	
evening set	11136 Jan 18 21:25	16° \mathcal{A} 26'21			11136 Dec 29 09:46	30° \mathcal{R} \mathcal{Z}	
min. Earth dist.	11136 Jan 22 15:16	13° \mathcal{A} 19'48	0.62940 AU	evening set	11136 Dec 31 05:56	29° \mathcal{Z} 01'15	
inferior conj	11136 Jan 25 10:39	10° \mathcal{A} 35'22	-1°54'40	min. Earth dist.	11137 Jan 04 00:10	26° \mathcal{Z} 16'44	0.60874 AU
minimum elong	11136 Jan 25 14:26	10° \mathcal{A} 26'06	1°52'35	inferior conj	11137 Jan 07 03:02	23° \mathcal{Z} 35'55	-3°11'17
asc. node	11136 Jan 31 06:14	5° \mathcal{A} 53'47		minimum elong	11137 Jan 07 09:32	23° \mathcal{Z} 21'55	3°08'20
morning rise	11136 Feb 01 09:45	5° \mathcal{A} 23'36		morning rise	11137 Jan 14 15:51	18° \mathcal{Z} 43'37	
direct	11136 Feb 03 17:17	4° \mathcal{A} 58'27		direct	11137 Jan 16 19:13	18° \mathcal{Z} 24'59	
morning max el	11136 Feb 10 08:01	8° \mathcal{A} 21'41	17°46'48	asc. node	11137 Jan 17 03:24	18° \mathcal{Z} 25'28	
	11136 Feb 24 16:21	0° \mathcal{H}		morning max el	11137 Jan 23 23:26	22° \mathcal{Z} 00'54	17°56'39
morning set	11136 Feb 26 10:40	3° \mathcal{H} 04'30			11137 Jan 30 02:53	0° \mathcal{A}	
desc. node	11136 Mar 04 19:11	15° \mathcal{H} 46'59		morning set	11137 Feb 08 14:01	16° \mathcal{A} 32'05	
					11137 Feb 16 00:04	0° \mathcal{H}	
superior conj	11136 Mar 09 10:52	23° \mathcal{H} 36'03	-0°34'44	superior conj	11137 Feb 18 22:39	5° \mathcal{H} 11'13	0°05'32
minimum elong	11136 Mar 09 07:20	23° \mathcal{H} 21'21	0°34'04	minimum elong	11137 Feb 18 23:09	5° \mathcal{H} 13'24	0°05'48
	11136 Mar 13 08:30	0° \mathcal{Y}		behind sun begin	11137 Feb 18 15:31	4° \mathcal{H} 40'03	
max. Earth dist.	11136 Mar 15 21:26	4° \mathcal{Y} 05'31	1.44263 AU	behind sun end	11137 Feb 19 06:47	5° \mathcal{H} 46'40	
evening rise	11136 Mar 24 12:12	17° \mathcal{Y} 36'50		desc. node	11137 Feb 19 15:53	6° \mathcal{H} 26'13	
	11136 Apr 01 16:15	0° \mathcal{B}		max. Earth dist.	11137 Feb 26 11:21	17° \mathcal{H} 57'42	1.42606 AU
evening max el	11136 Apr 23 06:48	29° \mathcal{B} 08'29	20°58'37	evening rise	11137 Mar 04 10:42	27° \mathcal{H} 36'37	
	11136 Apr 24 03:50	0° Π			11137 Mar 05 23:07	0° \mathcal{Y}	
asc. node	11136 Apr 28 03:51	3° Π 03'14			11137 Mar 26 09:51	0° \mathcal{B}	
retrograde	11136 May 01 18:04	4° Π 05'25		evening max el	11137 Apr 06 01:15	12° \mathcal{B} 53'28	22°14'20
evening set	11136 May 05 23:21	2° Π 25'10		asc. node	11137 Apr 15 01:06	18° \mathcal{B} 31'55	
	11136 May 08 09:11	30° \mathcal{R} \mathcal{B}		retrograde	11137 Apr 15 15:32	18° \mathcal{B} 33'40	
inferior conj	11136 May 11 05:54	26° \mathcal{B} 13'58	3°07'21	evening set	11137 Apr 20 07:35	16° \mathcal{B} 38'05	
minimum elong	11136 May 11 04:41	26° \mathcal{B} 18'13	3°06'43				

inferior conj	11137 Apr 25 14:56	10°8'17"00	2°47'57			11138 Apr 05 12:23	30°8'00	
minimum elong	11137 Apr 25 13:02	10°8'23"34	2°47'12	inferior conj	11138 Apr 09 23:53	24°0'24"35	2°18'49	
min. Earth dist.	11137 Apr 25 12:42	10°8'24"44	0.68698 AU	minimum elong	11138 Apr 09 21:43	24°0'32"02	2°18'00	
morning rise	11137 Apr 30 18:22	4°8'05"46		min. Earth dist.	11138 Apr 09 09:27	25°0'14"08	0.68572 AU	
direct	11137 May 05 12:20	2°8'05"16		morning rise	11138 Apr 15 05:32	18°0'19"45		
morning max el	11137 May 14 20:46	7°8'33"51	22°04'46	direct	11138 Apr 19 10:19	16°0'40"44		
desc. node	11137 May 18 17:03	11°8'47"34		morning max el	11138 Apr 27 14:38	21°0'20"52	20°44'01	
	11137 Jun 01 05:39	0°II			11138 May 04 22:02	0°8		
morning set	11137 Jun 16 20:36	23°II'56"13		desc. node	11138 May 05 13:52	0°8'52"38		
	11137 Jun 20 13:51	0°☾			11138 May 25 10:52	0°II		
max. Earth dist.	11137 Jun 22 08:38	2°☾'57"40	1.41324 AU	morning set	11138 May 27 06:50	2°II'50"15		
				max. Earth dist.	11138 Jun 04 14:28	16°II'01"10	1.43304 AU	
superior conj	11137 Jun 30 02:25	16°☾'16"45	-1°36'23					
minimum elong	11137 Jun 30 08:47	16°☾'44"54	1°36'15	superior conj	11138 Jun 11 08:13	27°II'06"46	-2°01'25	
	11137 Jul 07 16:02	0°Ω		minimum elong	11138 Jun 11 14:07	27°II'31"31	2°01'41	
evening rise	11137 Jul 10 15:19	5°Ω'30"35			11138 Jun 13 01:21	0°☾		
asc. node	11137 Jul 11 23:46	8°Ω'01"08		evening rise	11138 Jun 23 10:48	18°☾'03"27		
	11137 Jul 25 15:38	0°൬		asc. node	11138 Jun 28 20:42	27°☾'34"20		
evening max el	11137 Jul 26 16:28	1°൬'05"11	18°14'48		11138 Jun 30 06:41	0°Ω		
retrograde	11137 Aug 02 21:17	4°൬'43"41		evening max el	11138 Jul 10 05:02	14°Ω'09"41	18°04'03	
evening set	11137 Aug 05 02:41	4°൬'23"29		retrograde	11138 Jul 16 18:35	17°Ω'32"18		
inferior conj	11137 Aug 12 09:33	29°Ω'40"51	0°40'46	evening set	11138 Jul 19 07:58	17°Ω'01"14		
minimum elong	11137 Aug 12 10:53	29°Ω'37"58	0°39'53	inferior conj	11138 Jul 25 21:59	11°Ω'58"59	1°51'25	
	11137 Aug 12 00:35	30°8'00		minimum elong	11138 Jul 26 00:39	11°Ω'52"22	1°50'05	
desc. node	11137 Aug 14 15:49	27°Ω'44"00		min. Earth dist.	11138 Jul 29 00:30	8°Ω'56"04	0.61325 AU	
min. Earth dist.	11137 Aug 15 17:50	26°Ω'49"48	0.59046 AU	morning rise	11138 Aug 01 14:46	5°Ω'58"40		
morning rise	11137 Aug 19 15:41	24°Ω'04"49		desc. node	11138 Aug 01 13:05	6°Ω'01"33		
direct	11137 Aug 25 23:12	22°Ω'16"04		direct	11138 Aug 08 06:21	3°Ω'42"51		
	11137 Sep 09 06:38	0°൬		morning max el	11138 Aug 22 11:58	11°Ω'42"47	27°56'54	
morning max el	11137 Sep 09 08:03	0°൬'03"27	27°31'10		11138 Sep 05 22:01	0°൬		
	11137 Sep 30 16:26	0°♁			11138 Sep 22 23:52	0°♁		
asc. node	11137 Oct 08 00:32	13°♁'58"56		morning set	11138 Sep 24 18:51	3°♁'39"04		
morning set	11137 Oct 10 16:21	19°♁'29"11		asc. node	11138 Sep 24 21:17	3°♁'51"36		
	11137 Oct 15 12:50	0°♌		max. Earth dist.	11138 Sep 30 12:24	15°♁'52"27	1.31687 AU	
max. Earth dist.	11137 Oct 17 05:09	3°♌'43"44	1.31395 AU					
superior conj	11137 Oct 17 16:58	4°♌'49"34	1°22'39	superior conj	11138 Oct 02 03:22	19°♁'26"42	1°06'18	
minimum elong	11137 Oct 17 14:56	4°♌'38"12	1°22'44	minimum elong	11138 Oct 02 01:07	19°♁'14"19	1°06'06	
evening rise	11137 Oct 24 10:35	19°♌'38"52			11138 Oct 06 22:06	0°♌		
	11137 Oct 29 10:58	0°♌		evening rise	11138 Oct 08 21:02	4°♌'15"00		
desc. node	11137 Nov 10 13:08	20°♌'59"44			11138 Oct 22 09:36	0°♌		
	11137 Nov 17 05:41	0°♌		desc. node	11138 Oct 28 10:22	8°♌'47"48		
evening max el	11137 Nov 22 09:14	5°♌'32"02	26°20'04	evening max el	11138 Nov 04 00:43	16°♌'17"03	24°57'42	
retrograde	11137 Dec 06 07:35	12°♌'37"33		retrograde	11138 Nov 17 20:39	23°♌'13"17		
evening set	11137 Dec 12 19:59	10°♌'54"34		evening set	11138 Nov 23 11:04	22°♌'02"49		
min. Earth dist.	11137 Dec 16 22:36	8°♌'19"19	0.58745 AU	min. Earth dist.	11138 Nov 28 12:34	19°♌'19"25	0.56800 AU	
inferior conj	11137 Dec 20 02:08	5°♌'58"05	-4°26'07	inferior conj	11138 Dec 01 05:14	17°♌'34"05	-5°25'23	
minimum elong	11137 Dec 20 10:17	5°♌'42"47	4°23'13	minimum elong	11138 Dec 01 11:37	17°♌'23"39	5°23'47	
morning rise	11137 Dec 28 03:19	1°♌'27"47		morning rise	11138 Dec 09 14:23	13°♌'25"37		
direct	11137 Dec 30 06:30	1°♌'12"16		direct	11138 Dec 11 23:25	13°♌'09"36		
asc. node	11138 Jan 04 00:30	2°♌'34"02		morning max el	11138 Dec 21 08:40	17°♌'39"58	19°17'39	
morning max el	11138 Jan 07 08:57	5°♌'10"37	18°26'20	asc. node	11138 Dec 21 21:34	18°♌'11"51		
	11138 Jan 22 23:08	0°♌			11138 Dec 30 09:05	0°♌		
morning set	11138 Jan 23 06:24	0°♌'34"47		morning set	11139 Jan 07 07:39	15°♌'00"29		
					11139 Jan 14 20:38	0°♌		
superior conj	11138 Feb 01 08:23	17°♌'47"32	0°39'34	superior conj	11139 Jan 15 11:15	1°♌'11"09	1°05'49	
minimum elong	11138 Feb 01 10:58	17°♌'59"27	0°39'39	minimum elong	11139 Jan 15 14:16	1°♌'25"45	1°06'00	
desc. node	11138 Feb 06 12:38	27°♌'07"04		max. Earth dist.	11139 Jan 22 02:05	13°♌'37"46	1.38333 AU	
	11138 Feb 08 04:16	0°♌		desc. node	11139 Jan 24 09:24	17°♌'45"46		
max. Earth dist.	11138 Feb 08 20:06	1°♌'08"20	1.40547 AU	evening rise	11139 Jan 25 20:12	20°♌'18"30		
evening rise	11138 Feb 13 04:45	8°♌'29"37			11139 Jan 31 13:58	0°♌		
	11138 Feb 26 23:46	0°♌			11139 Feb 21 01:53	0°♌		
evening max el	11138 Mar 19 16:10	26°♌'40"59	23°34'47	evening max el	11139 Mar 02 05:44	10°♌'31"12	24°53'30	
	11138 Mar 23 09:23	0°♌		retrograde	11139 Mar 14 01:10	17°♌'23"40		
retrograde	11138 Mar 30 10:20	3°♌'01"45		evening set	11139 Mar 19 16:42	15°♌'02"28		
asc. node	11138 Apr 01 22:21	2°♌'32"16		asc. node	11139 Mar 19 19:38	14°♌'56"12		
evening set	11138 Apr 04 13:53	0°♌'52"17		min. Earth dist.	11139 Mar 24 04:31	9°♌'59"32	0.68021 AU	

inferior conj	11139 Mar 25 06:55	8° Υ 32'25	1°40'08		11140 Mar 01 08:18	30° \mathbb{R} \mathbb{H}	
minimum elong	11139 Mar 25 04:54	8° Υ 39'03	1°39'25	evening set	11140 Mar 02 14:26	29° \mathbb{H} 04'06	
morning rise	11139 Mar 30 17:20	2° Υ 35'26		asc. node	11140 Mar 05 16:55	25° \mathbb{H} 56'17	
direct	11139 Apr 03 09:45	1° Υ 17'28		min. Earth dist.	11140 Mar 06 19:44	24° \mathbb{H} 36'04	0.67068 AU
morning max el	11139 Apr 10 16:02	5° Υ 19'06	19°36'10	inferior conj	11140 Mar 08 10:03	22° \mathbb{H} 36'53	0°51'56
desc. node	11139 Apr 22 10:37	20° Υ 29'37		minimum elong	11140 Mar 08 08:48	22° \mathbb{H} 40'49	0°51'35
greatest brilliancy	11139 Apr 23 08:48	21° Υ 50'41	-0.7m	morning rise	11140 Mar 14 03:50	16° \mathbb{H} 49'31	
	11139 Apr 28 19:57	0° \mathbb{Z}		direct	11140 Mar 17 09:00	15° \mathbb{H} 50'39	
morning set	11139 May 06 06:08	11° \mathbb{Z} 19'47		morning max el	11140 Mar 24 00:56	19° \mathbb{H} 26'26	18°43'53
max. Earth dist.	11139 May 18 03:15	29° \mathbb{Z} 50'44	1.44775 AU		11140 Apr 01 08:44	0° Υ	
	11139 May 18 05:36	0° \mathbb{I}		desc. node	11140 Apr 08 07:21	10° Υ 30'10	
				morning set	11140 Apr 14 17:47	20° Υ 31'53	
superior conj	11139 May 22 13:54	6° \mathbb{I} 55'26	-2°13'02		11140 Apr 20 19:12	0° \mathbb{Z}	
minimum elong	11139 May 22 14:53	6° \mathbb{I} 59'22	2°13'37	max. Earth dist.	11140 Apr 29 21:15	14° \mathbb{Z} 11'41	1.45577 AU
evening rise	11139 Jun 05 10:06	29° \mathbb{I} 41'56					
	11139 Jun 05 14:24	0° \mathbb{E}		superior conj	11140 May 01 00:50	15° \mathbb{Z} 59'43	-2°05'28
asc. node	11139 Jun 15 17:42	16° \mathbb{E} 46'36		minimum elong	11140 Apr 30 18:23	15° \mathbb{Z} 34'27	2°05'34
evening max el	11139 Jun 23 19:00	27° \mathbb{E} 33'39	18°12'03		11140 May 09 22:06	0° \mathbb{I}	
	11139 Jun 26 21:52	0° \mathbb{Q}		evening rise	11140 May 16 09:40	10° \mathbb{I} 20'39	
retrograde	11139 Jun 30 03:35	0° \mathbb{Q} 54'56		greatest brilliancy	11140 May 23 06:09	21° \mathbb{I} 19'47	-0.9m
evening set	11139 Jul 03 01:03	0° \mathbb{Q} 10'24			11140 May 28 19:22	0° \mathbb{E}	
	11139 Jul 03 08:53	30° \mathbb{R} \mathbb{E}		asc. node	11140 Jun 01 14:46	5° \mathbb{E} 30'50	
inferior conj	11139 Jul 09 01:59	24° \mathbb{E} 50'08	2°38'18	evening max el	11140 Jun 06 07:19	11° \mathbb{E} 09'22	18°38'00
minimum elong	11139 Jul 09 04:26	24° \mathbb{E} 43'18	2°37'09	retrograde	11140 Jun 12 20:19	14° \mathbb{E} 43'08	
min. Earth dist.	11139 Jul 11 16:18	21° \mathbb{E} 57'35	0.63515 AU	evening set	11140 Jun 16 01:55	13° \mathbb{E} 43'40	
morning rise	11139 Jul 15 06:14	18° \mathbb{E} 35'49		inferior conj	11140 Jun 21 17:36	8° \mathbb{E} 06'57	3°05'16
desc. node	11139 Jul 19 10:19	16° \mathbb{E} 22'31		minimum elong	11140 Jun 21 19:06	8° \mathbb{E} 02'20	3°04'26
direct	11139 Jul 21 22:53	16° \mathbb{E} 01'10		min. Earth dist.	11140 Jun 23 17:11	5° \mathbb{E} 41'54	0.65416 AU
morning max el	11139 Aug 04 20:31	24° \mathbb{E} 03'20	27°44'45	morning rise	11140 Jun 27 11:27	1° \mathbb{E} 46'26	
	11139 Aug 10 04:43	0° \mathbb{Q}			11140 Jun 30 02:33	30° \mathbb{R} \mathbb{I}	
	11139 Aug 30 07:10	0° \mathbb{P}		direct	11140 Jul 03 23:10	29° \mathbb{I} 03'37	
morning set	11139 Sep 08 14:10	17° \mathbb{P} 25'45		desc. node	11140 Jul 05 07:29	29° \mathbb{I} 09'54	
asc. node	11139 Sep 11 18:02	23° \mathbb{P} 52'43			11140 Jul 08 02:58	0° \mathbb{E}	
max. Earth dist.	11139 Sep 13 13:59	27° \mathbb{P} 43'19	1.32486 AU	morning max el	11140 Jul 17 07:12	6° \mathbb{E} 56'04	26°59'42
	11139 Sep 14 15:40	0° \mathbb{L}			11140 Aug 04 02:08	0° \mathbb{Q}	
				morning set	11140 Aug 21 23:26	0° \mathbb{P} 41'43	
superior conj	11139 Sep 16 10:32	3° \mathbb{L} 50'42	0°44'47		11140 Aug 21 14:44	0° \mathbb{P}	
minimum elong	11139 Sep 16 08:38	3° \mathbb{L} 40'21	0°44'24	max. Earth dist.	11140 Aug 26 06:40	9° \mathbb{P} 10'44	1.33798 AU
evening rise	11139 Sep 23 08:28	18° \mathbb{L} 51'23		asc. node	11140 Aug 28 14:48	13° \mathbb{P} 57'54	
	11139 Sep 28 18:07	0° \mathbb{M}					
desc. node	11139 Oct 15 07:39	25° \mathbb{M} 18'36		superior conj	11140 Aug 30 12:18	17° \mathbb{P} 55'06	0°18'29
evening max el	11139 Oct 16 11:27	26° \mathbb{M} 28'30	23°18'39	minimum elong	11140 Aug 30 11:21	17° \mathbb{P} 50'10	0°18'05
	11139 Oct 20 17:50	0° \mathbb{X}			11140 Sep 05 04:47	0° \mathbb{L}	
retrograde	11139 Oct 29 20:38	3° \mathbb{X} 08'25		evening rise	11140 Sep 06 18:58	3° \mathbb{L} 22'15	
evening set	11139 Nov 03 02:30	2° \mathbb{X} 29'17			11140 Sep 21 11:30	0° \mathbb{M}	
	11139 Nov 08 16:34	30° \mathbb{R} \mathbb{M}		evening max el	11140 Sep 27 01:35	6° \mathbb{M} 38'48	21°40'06
min. Earth dist.	11139 Nov 09 21:08	29° \mathbb{M} 19'30	0.55333 AU	desc. node	11140 Oct 01 05:00	10° \mathbb{M} 04'05	
inferior conj	11139 Nov 11 12:35	28° \mathbb{M} 22'02	-5°48'18	retrograde	11140 Oct 09 10:14	12° \mathbb{M} 47'36	
minimum elong	11139 Nov 11 12:07	28° \mathbb{M} 22'43	5°47'46	evening set	11140 Oct 12 06:31	12° \mathbb{M} 29'14	
morning rise	11139 Nov 19 23:28	24° \mathbb{M} 30'38		inferior conj	11140 Oct 21 06:27	8° \mathbb{M} 32'51	-5°16'07
direct	11139 Nov 22 21:41	24° \mathbb{M} 10'02		minimum elong	11140 Oct 20 22:15	8° \mathbb{M} 44'18	5°14'17
morning max el	11139 Dec 03 19:17	29° \mathbb{M} 19'54	20°31'52	min. Earth dist.	11140 Oct 21 03:56	8° \mathbb{M} 36'22	0.54624 AU
	11139 Dec 04 11:42	0° \mathbb{X}		morning rise	11140 Oct 29 15:07	4° \mathbb{M} 44'52	
asc. node	11139 Dec 08 18:35	5° \mathbb{X} 03'39		direct	11140 Nov 02 07:07	4° \mathbb{M} 15'39	
morning set	11139 Dec 22 14:43	29° \mathbb{X} 40'44		morning max el	11140 Nov 14 16:26	10° \mathbb{M} 08'55	22°06'54
	11139 Dec 22 18:27	0° \mathbb{Z}		asc. node	11140 Nov 24 15:33	22° \mathbb{M} 52'35	
					11140 Nov 28 18:50	0° \mathbb{X}	
superior conj	11139 Dec 30 02:50	15° \mathbb{Z} 10'01	1°24'10	morning set	11140 Dec 06 01:07	14° \mathbb{X} 27'28	
minimum elong	11139 Dec 30 05:15	15° \mathbb{Z} 22'19	1°24'34				
max. Earth dist.	11140 Jan 04 10:02	25° \mathbb{Z} 40'20	1.36206 AU	superior conj	11140 Dec 13 03:19	29° \mathbb{X} 32'33	1°35'09
	11140 Jan 06 16:42	0° \mathbb{X}		minimum elong	11140 Dec 13 04:41	29° \mathbb{X} 39'44	1°35'43
evening rise	11140 Jan 08 06:51	2° \mathbb{X} 56'58			11140 Dec 13 08:31	0° \mathbb{Z}	
desc. node	11140 Jan 11 06:16	8° \mathbb{X} 18'52		max. Earth dist.	11140 Dec 16 23:56	7° \mathbb{Z} 33'24	1.34358 AU
	11140 Jan 24 14:16	0° \mathbb{H}		evening rise	11140 Dec 21 08:56	16° \mathbb{Z} 14'28	
evening max el	11140 Feb 12 19:19	24° \mathbb{H} 21'04	26°03'14	desc. node	11140 Dec 28 03:11	28° \mathbb{Z} 41'07	
	11140 Feb 20 01:18	0° Υ			11140 Dec 28 21:17	0° \mathbb{X}	
retrograde	11140 Feb 25 11:04	1° Υ 33'50			11141 Jan 18 02:04	0° \mathbb{H}	

evening max el	11141 Jan 25 08:50	8° H 01'47	26°56'47		11141 Dec 04 22:30	0° Z	
retrograde	11141 Feb 07 15:16	15° H 24'18		desc. node	11141 Dec 15 00:11	18° Z 47'07	
evening set	11141 Feb 14 05:08	12° H 50'43			11141 Dec 21 22:21	0° \approx	
min. Earth dist.	11141 Feb 18 04:49	8° H 56'43	0.65727 AU	evening max el	11142 Jan 07 21:21	21° \approx 23'10	27°27'04
inferior conj	11141 Feb 20 07:06	6° H 32'14	-0°05'50	retrograde	11142 Jan 21 13:11	28° \approx 46'38	
minimum elong	11141 Feb 20 07:15	6° H 31'48	0°05'27	evening set	11142 Jan 28 10:32	26° \approx 15'57	
transit middle	11141 Feb 20 07:15	6° H 31'48	0°05'27	min. Earth dist.	11142 Feb 01 05:48	22° \approx 53'28	0.64039 AU
transit begin	11141 Feb 20 04:28	6° H 39'52		inferior conj	11142 Feb 03 19:30	20° \approx 12'47	-1°12'40
transit end	11141 Feb 20 10:03	6° H 23'45		minimum elong	11142 Feb 03 21:47	20° \approx 06'49	1°11'15
asc. node	11141 Feb 20 14:14	6° H 11'46		asc. node	11142 Feb 07 11:30	16° \approx 42'32	
morning rise	11141 Feb 26 10:41	0° H 56'46		morning rise	11142 Feb 10 11:03	14° \approx 51'43	
direct	11141 Mar 01 05:59	0° H 13'58		direct	11142 Feb 12 22:09	14° \approx 21'20	
morning max el	11141 Mar 07 15:29	3° H 36'23	18°08'11	morning max el	11142 Feb 19 08:54	17° \approx 41'33	17°49'32
	11141 Mar 25 16:22	0° Y			11142 Feb 28 08:50	0° H	
morning set	11141 Mar 26 08:40	1° Y 06'01		morning set	11142 Mar 08 03:38	13° H 01'58	
desc. node	11141 Mar 26 04:03	0° Y 47'18		desc. node	11142 Mar 13 00:42	21° H 16'12	
					11142 Mar 18 07:05	0° Y	
superior conj	11141 Apr 10 08:13	25° Y 01'30	-1°38'26	superior conj	11142 Mar 21 05:52	4° Y 48'04	-0°59'06
minimum elong	11141 Apr 09 22:46	24° Y 24'23	1°37'43	minimum elong	11142 Mar 20 23:32	4° Y 22'26	0°58'14
max. Earth dist.	11141 Apr 12 17:15	28° Y 45'07	1.45630 AU	max. Earth dist.	11142 Mar 26 12:15	13° Y 13'23	1.44949 AU
	11141 Apr 13 12:24	0° B		evening rise	11142 Apr 05 22:58	29° Y 28'38	
evening rise	11141 Apr 26 10:47	20° B 07'05			11142 Apr 06 07:09	0° B	
	11141 May 02 20:04	0° II			11142 Apr 26 16:11	0° II	
greatest brilliancy	11141 May 08 17:44	9° II 00'04	-0.7m	evening max el	11142 May 03 18:30	8° II 34'09	20°19'24
asc. node	11141 May 19 11:55	23° II 37'40		asc. node	11142 May 06 09:07	10° II 54'49	
evening max el	11141 May 20 15:38	24° II 50'51	19°21'02	retrograde	11142 May 11 16:09	13° II 08'16	
retrograde	11141 May 27 17:23	28° II 49'41		evening set	11142 May 15 15:32	11° II 37'17	
evening set	11141 May 31 07:31	27° II 34'33		inferior conj	11142 May 20 22:35	5° II 32'44	3°13'54
inferior conj	11141 Jun 05 17:25	21° II 43'06	3°16'11	minimum elong	11142 May 20 21:52	5° II 35'09	3°13'17
minimum elong	11141 Jun 05 17:46	21° II 41'55	3°15'31	min. Earth dist.	11142 May 21 17:04	4° II 29'33	0.67966 AU
min. Earth dist.	11141 Jun 07 02:05	19° II 56'15	0.66912 AU		11142 May 25 08:43	30° R B	
morning rise	11141 Jun 11 03:34	15° II 21'35		morning rise	11142 May 26 03:55	29° B 13'39	
direct	11141 Jun 17 06:05	12° II 40'59		direct	11142 May 31 18:43	26° B 43'56	
desc. node	11141 Jun 22 04:35	14° II 05'49			11142 Jun 08 05:36	0° II	
morning max el	11141 Jun 29 17:56	20° II 09'35	25°49'57	desc. node	11142 Jun 09 01:34	0° II 40'37	
	11141 Jul 08 04:16	0° B		morning max el	11142 Jun 12 03:43	3° II 33'19	24°25'05
	11141 Jul 28 05:18	0° O			11142 Jul 02 09:04	0° B	
morning set	11141 Aug 04 19:02	13° O 18'14		morning set	11142 Jul 17 20:15	25° B 02'26	
max. Earth dist.	11141 Aug 08 13:05	20° O 19'44	1.35582 AU		11142 Jul 20 15:40	0° O	
	11141 Aug 13 11:27	0° np		max. Earth dist.	11142 Jul 21 11:24	1° O 28'42	1.37732 AU
superior conj	11141 Aug 14 06:01	1° np 33'30	-0°11'56	superior conj	11142 Jul 28 12:20	14° O 36'56	-0°45'04
minimum elong	11141 Aug 14 06:45	1° np 37'11	0°12'10	minimum elong	11142 Jul 28 15:21	14° O 51'24	0°45'02
behind sun begin	11141 Aug 14 02:41	1° np 16'39		asc. node	11142 Aug 02 08:24	24° O 05'23	
behind sun end	11141 Aug 14 10:49	1° np 57'45			11142 Aug 05 07:38	0° np	
asc. node	11141 Aug 15 11:36	4° np 03'34		evening rise	11142 Aug 06 04:23	1° np 43'18	
evening rise	11141 Aug 22 02:28	17° np 42'05		evening max el	11142 Aug 22 19:14	28° np 53'08	19°12'17
	11141 Aug 28 07:31	0° u			11142 Aug 23 23:56	0° u	
evening max el	11141 Sep 09 03:28	17° u 22'30	20°15'57	retrograde	11142 Aug 31 22:38	3° u 26'11	
desc. node	11141 Sep 18 02:21	22° u 35'37		evening set	11142 Sep 02 18:54	3° u 15'51	
retrograde	11141 Sep 19 23:01	22° u 44'52		desc. node	11142 Sep 04 23:42	2° u 38'25	
evening set	11141 Sep 21 23:03	22° u 34'38			11142 Sep 09 22:19	30° R np	
inferior conj	11141 Oct 01 00:13	18° u 36'50	-3°50'29	inferior conj	11142 Sep 11 07:34	29° np 05'03	-1°58'28
minimum elong	11141 Sep 30 14:40	18° u 50'55	3°47'17	minimum elong	11142 Sep 11 02:22	29° np 13'46	1°56'31
min. Earth dist.	11141 Oct 02 12:33	17° u 43'13	0.54846 AU	min. Earth dist.	11142 Sep 14 01:01	27° np 15'47	0.55981 AU
morning rise	11141 Oct 09 05:29	14° u 30'49		morning rise	11142 Sep 19 06:57	24° np 25'07	
direct	11141 Oct 13 16:42	13° u 47'44		direct	11142 Sep 24 13:53	23° np 20'34	
morning max el	11141 Oct 27 05:01	20° u 23'17	23°53'52		11142 Oct 08 03:24	0° u	
	11141 Nov 04 08:49	0° ml		morning max el	11142 Oct 08 16:39	0° u 31'06	25°37'01
asc. node	11141 Nov 11 12:28	11° ml 25'14		asc. node	11142 Oct 29 09:18	0° ml 30'09	
morning set	11141 Nov 20 12:54	29° ml 15'11			11142 Oct 29 02:58	0° ml	
	11141 Nov 20 21:17	0° z		morning set	11142 Nov 05 00:19	13° ml 58'32	
superior conj	11141 Nov 27 09:48	14° z 10'19	1°39'22	superior conj	11142 Nov 11 19:52	28° ml 55'41	1°37'24
minimum elong	11141 Nov 27 09:59	14° z 11'17	1°39'59	minimum elong	11142 Nov 11 18:58	28° ml 50'43	1°37'54
max. Earth dist.	11141 Nov 29 21:36	19° z 32'25	1.32918 AU		11142 Nov 12 07:30	0° z	
evening rise	11141 Dec 04 22:59	0° Z 02'27					

max. Earth dist.	11142 Nov 13 02:04	1° ♄ 42'20	1.31943 AU	superior conj	11143 Oct 27 07:29	13° ♄ 42'18	1°29'39
evening rise	11142 Nov 18 21:51	14° ♄ 12'40		minimum elong	11143 Oct 27 05:45	13° ♄ 32'40	1°29'54
	11142 Nov 27 00:01	0° ♄		max. Earth dist.	11143 Oct 27 10:38	13° ♄ 59'50	1.31457 AU
desc. node	11142 Dec 01 21:16	8° ♄ 29'45		evening rise	11143 Nov 03 02:55	28° ♄ 37'56	
	11142 Dec 17 05:27	0° ♄			11143 Nov 03 18:26	0° ♄	
evening max el	11142 Dec 21 07:03	4° ♄ 13'23	27°27'48	desc. node	11143 Nov 18 18:25	27° ♄ 39'03	
retrograde	11143 Jan 04 03:50	11° ♄ 31'21			11143 Nov 20 07:07	0° ♄	
evening set	11143 Jan 11 03:45	9° ♄ 12'15		evening max el	11143 Dec 03 11:18	16° ♄ 19'34	26°54'38
min. Earth dist.	11143 Jan 14 21:07	6° ♄ 16'03	0.62075 AU	retrograde	11143 Dec 17 09:38	23° ♄ 28'55	
inferior conj	11143 Jan 17 20:13	3° ♄ 31'11	-2°26'51	evening set	11143 Dec 24 04:59	21° ♄ 30'33	
minimum elong	11143 Jan 18 01:10	3° ♄ 19'39	2°24'20	min. Earth dist.	11143 Dec 28 01:41	18° ♄ 51'31	0.59962 AU
	11143 Jan 22 01:03	30° ♄		inferior conj	11143 Dec 31 05:44	16° ♄ 17'16	-3°43'55
morning rise	11143 Jan 25 01:10	28° ♄ 27'22		minimum elong	11143 Dec 31 13:10	16° ♄ 02'07	3°40'50
asc. node	11143 Jan 25 08:43	28° ♄ 21'41		morning rise	11144 Jan 08 00:05	11° ♄ 33'44	
direct	11143 Jan 27 06:23	28° ♄ 05'33		direct	11144 Jan 10 02:46	11° ♄ 16'49	
	11143 Feb 01 06:59	0° ♄		asc. node	11144 Jan 12 05:51	11° ♄ 34'45	
morning max el	11143 Feb 03 02:03	1° ♄ 33'23	17°48'37	morning max el	11144 Jan 17 15:23	15° ♄ 01'26	18°06'40
morning set	11143 Feb 18 21:05	26° ♄ 02'25			11144 Jan 27 22:43	0° ♄	
	11143 Feb 21 02:28	0° ♄		morning set	11144 Feb 02 06:37	9° ♄ 47'22	
desc. node	11143 Feb 27 21:23	11° ♄ 53'02					
				superior conj	11144 Feb 12 01:06	27° ♄ 46'21	0°20'52
superior conj	11143 Mar 02 03:26	15° ♄ 43'31	-0°17'07	minimum elong	11144 Feb 12 02:44	27° ♄ 53'36	0°21'01
minimum elong	11143 Mar 02 01:49	15° ♄ 36'40	0°16'38		11144 Feb 13 07:11	0° ♄	
max. Earth dist.	11143 Mar 09 04:14	27° ♄ 22'12	1.43617 AU	desc. node	11144 Feb 14 18:07	2° ♄ 33'31	
	11143 Mar 10 19:25	0° ♄		max. Earth dist.	11144 Feb 19 16:09	10° ♄ 58'49	1.41772 AU
evening rise	11143 Mar 16 13:48	9° ♄ 05'57		evening rise	11144 Feb 24 20:06	19° ♄ 27'57	
	11143 Mar 30 11:40	0° ♄			11144 Mar 02 13:04	0° ♄	
evening max el	11143 Apr 16 15:52	22° ♄ 19'03	21°29'59		11144 Mar 23 22:16	0° ♄	
asc. node	11143 Apr 23 06:21	27° ♄ 08'02		evening max el	11144 Mar 29 08:44	6° ♄ 05'44	22°48'21
retrograde	11143 Apr 25 14:28	27° ♄ 34'27		retrograde	11144 Apr 08 10:49	12° ♄ 03'11	
evening set	11143 Apr 30 00:09	25° ♄ 47'48		asc. node	11144 Apr 09 03:37	12° ♄ 00'50	
inferior conj	11143 May 05 06:48	19° ♄ 32'13	3°00'23	evening set	11144 Apr 13 07:42	10° ♄ 01'36	
minimum elong	11143 May 05 05:15	19° ♄ 37'36	2°59'41	inferior conj	11144 Apr 18 16:00	3° ♄ 37'30	2°36'44
min. Earth dist.	11143 May 05 11:59	19° ♄ 14'09	0.68564 AU	minimum elong	11144 Apr 18 13:57	3° ♄ 44'39	2°35'57
morning rise	11143 May 10 10:08	13° ♄ 17'39		min. Earth dist.	11144 Apr 18 08:35	4° ♄ 03'17	0.68705 AU
direct	11143 May 15 11:55	11° ♄ 05'11			11144 Apr 21 09:36	30° ♄	
morning max el	11143 May 25 13:58	17° ♄ 03'56	22°55'08	morning rise	11144 Apr 23 20:04	27° ♄ 28'56	
desc. node	11143 May 26 22:28	18° ♄ 28'36		direct	11144 Apr 28 08:30	25° ♄ 37'18	
	11143 Jun 05 06:40	0° ♄			11144 May 06 10:06	0° ♄	
	11143 Jun 25 10:18	0° ♄		morning max el	11144 May 07 04:06	0° ♄ 43'49	21°29'02
morning set	11143 Jun 28 22:01	5° ♄ 41'34		desc. node	11144 May 12 19:18	7° ♄ 09'37	
max. Earth dist.	11143 Jul 03 08:28	13° ♄ 09'35	1.40040 AU		11144 May 29 01:24	0° ♄	
				morning set	11144 Jun 07 21:31	15° ♄ 09'35	
superior conj	11143 Jul 11 03:17	26° ♄ 56'18	-1°18'29	max. Earth dist.	11144 Jun 14 10:48	25° ♄ 44'09	1.42220 AU
minimum elong	11143 Jul 11 08:41	27° ♄ 20'56	1°18'18		11144 Jun 17 00:28	0° ♄	
	11143 Jul 12 19:16	0° ♄					
asc. node	11143 Jul 20 05:15	13° ♄ 59'39		superior conj	11144 Jun 21 22:20	8° ♄ 21'11	-1°48'12
evening rise	11143 Jul 20 21:41	15° ♄ 18'02		minimum elong	11144 Jun 22 04:56	8° ♄ 49'44	1°48'12
	11143 Jul 28 21:40	0° ♄		evening rise	11144 Jul 03 02:25	28° ♄ 16'37	
evening max el	11143 Aug 05 22:15	11° ♄ 07'37	18°29'55		11144 Jul 04 01:09	0° ♄	
retrograde	11143 Aug 13 16:40	15° ♄ 01'30		asc. node	11144 Jul 06 02:09	3° ♄ 42'01	
evening set	11143 Aug 15 18:00	14° ♄ 45'57		evening max el	11144 Jul 19 08:26	23° ♄ 56'34	18°07'56
desc. node	11143 Aug 22 21:01	10° ♄ 44'06		retrograde	11144 Jul 26 05:15	27° ♄ 26'21	
inferior conj	11143 Aug 23 11:48	10° ♄ 15'17	-0°11'24	evening set	11144 Jul 28 14:08	27° ♄ 01'46	
minimum elong	11143 Aug 23 11:22	10° ♄ 16'10	0°11'31	inferior conj	11144 Aug 04 13:22	22° ♄ 10'20	1°13'49
transit middle	11143 Aug 23 11:22	10° ♄ 16'10	0°11'31	minimum elong	11144 Aug 04 15:31	22° ♄ 05'25	1°12'38
transit begin	11143 Aug 23 08:51	10° ♄ 21'04		min. Earth dist.	11144 Aug 07 20:10	19° ♄ 11'42	0.60009 AU
transit end	11143 Aug 23 13:52	10° ♄ 11'15		desc. node	11144 Aug 08 18:17	18° ♄ 25'05	
min. Earth dist.	11143 Aug 26 18:53	7° ♄ 41'29	0.57811 AU	morning rise	11144 Aug 11 13:53	16° ♄ 22'57	
morning rise	11143 Aug 31 01:13	4° ♄ 58'25		direct	11144 Aug 18 01:43	14° ♄ 22'16	
direct	11143 Sep 06 01:27	3° ♄ 26'20		morning max el	11144 Sep 01 09:32	22° ♄ 15'14	27°47'02
morning max el	11143 Sep 20 09:23	11° ♄ 02'01	26°58'55		11144 Sep 08 05:30	0° ♄	
	11143 Oct 05 02:01	0° ♄			11144 Sep 27 04:05	0° ♄	
asc. node	11143 Oct 16 06:04	19° ♄ 58'53		asc. node	11144 Oct 02 02:50	9° ♄ 44'53	
morning set	11143 Oct 20 09:42	28° ♄ 32'51		morning set	11144 Oct 03 15:20	12° ♄ 53'47	
	11143 Oct 21 02:01	0° ♄		max. Earth dist.	11144 Oct 09 19:43	26° ♄ 16'26	1.31460 AU

superior conj	11144 Oct 10 18:52	28° <u>Ω</u> 24'53	1°16'23	max. Earth dist.	11145 Sep 23 01:10	8° <u>Ω</u> 19'19	1.31960 AU
minimum elong	11144 Oct 10 16:41	28° <u>Ω</u> 12'44	1°16'20				
	11144 Oct 11 11:58	0° <u>ℓ</u>		superior conj	11145 Sep 25 04:06	12° <u>Ω</u> 56'48	0°57'48
evening rise	11144 Oct 17 12:01	13° <u>ℓ</u> 12'23		minimum elong	11145 Sep 25 01:55	12° <u>Ω</u> 44'53	0°57'30
	11144 Oct 25 20:32	0° <u>♊</u>		evening rise	11145 Oct 01 23:05	27° <u>Ω</u> 49'04	
desc. node	11144 Nov 04 15:37	16° <u>♊</u> 02'18			11145 Oct 02 23:34	0° <u>ℓ</u>	
evening max el	11144 Nov 14 07:34	27° <u>♊</u> 33'55	25°48'07		11145 Oct 19 22:10	0° <u>♊</u>	
	11144 Nov 17 02:48	0° <u>♊</u>		desc. node	11145 Oct 22 12:53	3° <u>♊</u> 20'37	
retrograde	11144 Nov 28 04:59	4° <u>♊</u> 35'00		evening max el	11145 Oct 26 20:01	8° <u>♊</u> 00'29	24°16'37
evening set	11144 Dec 04 09:48	3° <u>♊</u> 05'18		retrograde	11145 Nov 09 12:36	14° <u>♊</u> 51'44	
min. Earth dist.	11144 Dec 08 20:04	0° <u>♊</u> 29'06	0.57887 AU	evening set	11145 Nov 14 14:26	13° <u>♊</u> 54'58	
	11144 Dec 09 12:58	30° <u>♋</u> <u>♊</u>		min. Earth dist.	11145 Nov 20 06:59	11° <u>♊</u> 02'42	0.56101 AU
inferior conj	11144 Dec 11 20:38	28° <u>♊</u> 21'29	-4°54'13	inferior conj	11145 Nov 22 14:57	9° <u>♊</u> 36'16	-5°40'50
minimum elong	11144 Dec 12 04:37	28° <u>♊</u> 07'24	4°51'44	minimum elong	11145 Nov 22 19:00	9° <u>♊</u> 30'00	5°39'54
morning rise	11144 Dec 20 01:54	24° <u>♊</u> 00'33		morning rise	11145 Dec 01 01:40	5° <u>♊</u> 36'33	
direct	11144 Dec 22 06:55	23° <u>♊</u> 45'09		direct	11145 Dec 03 15:28	5° <u>♊</u> 19'10	
asc. node	11144 Dec 29 02:56	26° <u>♊</u> 23'23		morning max el	11145 Dec 13 15:41	10° <u>♊</u> 05'02	19°46'28
morning max el	11144 Dec 30 21:12	27° <u>♊</u> 55'38	18°45'21	asc. node	11145 Dec 15 23:59	12° <u>♊</u> 34'36	
	11145 Jan 01 19:38	0° <u>♊</u>			11145 Dec 26 23:15	0° <u>♊</u>	
morning set	11145 Jan 16 03:16	24° <u>♊</u> 01'54		morning set	11145 Dec 31 07:19	8° <u>♊</u> 34'47	
	11145 Jan 19 04:35	0° <u>♋</u>					
				superior conj	11146 Jan 08 03:35	24° <u>♊</u> 25'28	1°14'32
superior conj	11145 Jan 24 18:47	10° <u>♋</u> 45'04	0°51'41	minimum elong	11146 Jan 08 06:26	24° <u>♊</u> 39'33	1°14'48
minimum elong	11145 Jan 24 21:43	10° <u>♋</u> 58'52	0°51'46		11146 Jan 11 00:01	0° <u>♋</u>	
desc. node	11145 Jan 31 14:54	23° <u>♋</u> 14'15		max. Earth dist.	11146 Jan 14 05:58	6° <u>♋</u> 09'13	1.37405 AU
max. Earth dist.	11145 Jan 31 23:53	23° <u>♋</u> 53'52	1.39619 AU	evening rise	11146 Jan 17 23:22	12° <u>♋</u> 56'20	
evening rise	11145 Feb 04 23:24	0° <u>♋</u> 45'33		desc. node	11146 Jan 18 11:44	13° <u>♋</u> 51'15	
	11145 Feb 04 12:39	0° <u>♋</u>			11146 Jan 28 03:01	0° <u>♋</u>	
	11145 Feb 23 21:29	0° <u>♋</u>			11146 Feb 18 22:42	0° <u>♋</u>	
evening max el	11145 Mar 11 22:53	19° <u>♋</u> 54'44	24°08'45	evening max el	11146 Feb 22 12:10	3° <u>♋</u> 44'59	25°24'34
retrograde	11145 Mar 23 03:57	26° <u>♋</u> 29'43		retrograde	11146 Mar 06 16:58	10° <u>♋</u> 48'05	
asc. node	11145 Mar 27 00:53	25° <u>♋</u> 20'32		evening set	11146 Mar 12 13:40	8° <u>♋</u> 22'28	
evening set	11145 Mar 28 12:44	24° <u>♋</u> 14'43		asc. node	11146 Mar 13 22:10	7° <u>♋</u> 06'25	
min. Earth dist.	11145 Apr 02 04:47	18° <u>♋</u> 51'51	0.68400 AU	min. Earth dist.	11146 Mar 16 22:28	3° <u>♋</u> 34'37	0.67665 AU
inferior conj	11145 Apr 03 00:22	17° <u>♋</u> 45'36	2°03'32	inferior conj	11146 Mar 18 06:01	1° <u>♋</u> 52'46	1°20'51
minimum elong	11145 Apr 02 22:13	17° <u>♋</u> 52'55	2°02'44	minimum elong	11146 Mar 18 04:15	1° <u>♋</u> 58'29	1°20'15
morning rise	11145 Apr 08 07:46	11° <u>♋</u> 44'10			11146 Mar 19 17:37	30° <u>♌</u> <u>♋</u>	
direct	11145 Apr 12 07:11	10° <u>♋</u> 14'19		morning rise	11146 Mar 23 19:18	25° <u>♌</u> 59'51	
morning max el	11145 Apr 20 01:10	14° <u>♋</u> 36'09	20°13'21	direct	11146 Mar 27 06:41	24° <u>♌</u> 50'32	
desc. node	11145 Apr 29 16:07	26° <u>♋</u> 29'29		morning max el	11146 Apr 03 06:02	28° <u>♌</u> 39'45	19°11'56
	11145 May 02 03:42	0° <u>♋</u>			11146 Apr 04 12:59	0° <u>♋</u>	
morning set	11145 May 18 00:35	23° <u>♋</u> 46'04		greatest brilliancy	11146 Apr 16 05:07	15° <u>♋</u> 48'42	-0.7m
	11145 May 22 00:54	0° <u>♌</u>		desc. node	11146 Apr 16 12:52	16° <u>♋</u> 17'42	
max. Earth dist.	11145 May 27 20:14	9° <u>♌</u> 10'41	1.44007 AU		11146 Apr 25 12:26	0° <u>♋</u>	
				morning set	11146 Apr 27 02:28	2° <u>♋</u> 26'44	
superior conj	11145 Jun 02 17:44	18° <u>♌</u> 44'02	-2°08'24	max. Earth dist.	11146 May 10 11:23	23° <u>♋</u> 15'30	1.45200 AU
minimum elong	11145 Jun 02 22:08	19° <u>♌</u> 02'07	2°08'51				
	11145 Jun 09 11:36	0° <u>♌</u>		superior conj	11146 May 13 14:14	28° <u>♋</u> 10'43	-2°12'22
evening rise	11145 Jun 15 13:55	10° <u>♌</u> 27'42		minimum elong	11146 May 13 11:59	28° <u>♋</u> 01'51	2°12'51
asc. node	11145 Jun 22 23:07	23° <u>♌</u> 07'04			11146 May 14 17:48	0° <u>♌</u>	
	11145 Jun 27 06:47	0° <u>♌</u>		evening rise	11146 May 28 03:29	21° <u>♌</u> 41'45	
evening max el	11145 Jul 02 21:55	7° <u>♌</u> 09'46	18°05'11		11146 Jun 02 04:32	0° <u>♌</u>	
retrograde	11145 Jul 09 08:13	10° <u>♌</u> 30'24		asc. node	11146 Jun 09 20:10	12° <u>♌</u> 08'58	
evening set	11145 Jul 12 01:00	9° <u>♌</u> 53'52		evening max el	11146 Jun 16 11:29	20° <u>♌</u> 39'45	18°20'54
inferior conj	11145 Jul 18 08:56	4° <u>♌</u> 43'28	2°14'01	retrograde	11146 Jun 22 21:03	24° <u>♌</u> 05'05	
minimum elong	11145 Jul 18 11:38	4° <u>♌</u> 36'23	2°12'44	evening set	11146 Jun 25 21:50	23° <u>♌</u> 14'31	
min. Earth dist.	11145 Jul 21 06:38	1° <u>♌</u> 42'37	0.62273 AU	inferior conj	11146 Jul 01 18:23	17° <u>♌</u> 47'07	2°51'55
	11145 Jul 23 02:11	30° <u>♍</u> <u>♌</u>		minimum elong	11146 Jul 01 20:29	17° <u>♌</u> 40'59	2°50'54
morning rise	11145 Jul 24 20:09	28° <u>♌</u> 35'52		min. Earth dist.	11146 Jul 04 02:38	15° <u>♌</u> 04'15	0.64363 AU
desc. node	11145 Jul 26 15:33	27° <u>♌</u> 27'54		morning rise	11146 Jul 07 17:52	11° <u>♌</u> 29'03	
direct	11145 Jul 31 12:47	26° <u>♌</u> 11'08		desc. node	11146 Jul 13 12:45	8° <u>♌</u> 51'51	
	11145 Aug 09 20:46	0° <u>♌</u>		direct	11146 Jul 14 08:57	8° <u>♌</u> 49'26	
morning max el	11145 Aug 14 15:56	4° <u>♌</u> 13'28	27°56'23	morning max el	11146 Jul 28 01:53	16° <u>♌</u> 50'03	27°29'10
	11145 Sep 02 22:06	0° <u>♍</u>			11146 Aug 07 23:57	0° <u>♌</u>	
morning set	11145 Sep 17 15:05	26° <u>♍</u> 54'36			11146 Aug 26 17:50	0° <u>♍</u>	
asc. node	11145 Sep 18 23:35	29° <u>♍</u> 41'42		morning set	11146 Sep 01 06:31	10° <u>♍</u> 29'21	
	11145 Sep 19 03:07	0° <u>♍</u>		asc. node	11146 Sep 05 20:22	19° <u>♍</u> 45'11	

max. Earth dist.	11146 Sep 05 23:10	19° \mathbb{M} 59'46	1.32977 AU	max. Earth dist.	11147 Aug 19 11:02	1° \mathbb{M} 15'49	1.34502 AU
				asc. node	11147 Aug 23 17:10	9° \mathbb{M} 51'09	
superior conj	11146 Sep 09 09:14	27° \mathbb{M} 13'01	0°34'11	superior conj	11147 Aug 24 07:55	11° \mathbb{M} 07'17	0°06'01
minimum elong	11146 Sep 09 07:40	27° \mathbb{M} 04'34	0°33'46	minimum elong	11147 Aug 24 07:36	11° \mathbb{M} 05'39	0°05'41
	11146 Sep 10 16:21	0° \mathbb{L}		behind sun begin	11147 Aug 24 02:06	10° \mathbb{M} 37'12	
evening rise	11146 Sep 16 10:20	12° \mathbb{L} 23'21		behind sun end	11147 Aug 24 13:07	11° \mathbb{M} 34'09	
	11146 Sep 25 07:25	0° \mathbb{M}		evening rise	11147 Aug 31 19:47	26° \mathbb{M} 49'55	
evening max el	11146 Oct 08 06:51	18° \mathbb{M} 06'04	22°35'43		11147 Sep 02 08:27	0° \mathbb{L}	
desc. node	11146 Oct 09 10:11	19° \mathbb{M} 10'03		evening max el	11147 Sep 20 01:26	28° \mathbb{L} 27'56	21°02'04
retrograde	11146 Oct 21 08:00	24° \mathbb{M} 35'32			11147 Sep 21 17:24	0° \mathbb{M}	
evening set	11146 Oct 24 22:26	24° \mathbb{M} 07'05		desc. node	11147 Sep 26 07:30	3° \mathbb{M} 01'44	
min. Earth dist.	11146 Nov 01 14:34	20° \mathbb{M} 40'36	0.54918 AU	retrograde	11147 Oct 01 19:22	4° \mathbb{M} 17'40	
inferior conj	11146 Nov 02 15:16	20° \mathbb{M} 05'32	-5°41'59	evening set	11147 Oct 04 04:46	4° \mathbb{M} 04'11	
minimum elong	11146 Nov 02 11:09	20° \mathbb{M} 11'24	5°41'11	inferior conj	11147 Oct 13 07:13	0° \mathbb{M} 09'17	-4°45'11
morning rise	11146 Nov 11 01:26	16° \mathbb{M} 17'42		minimum elong	11147 Oct 12 21:28	0° \mathbb{M} 23'03	4°42'30
direct	11146 Nov 14 06:36	15° \mathbb{M} 54'06			11147 Oct 13 13:47	30° \mathbb{R} \mathbb{L}	
morning max el	11146 Nov 25 20:26	21° \mathbb{M} 22'49	21°10'08	min. Earth dist.	11147 Oct 13 22:01	29° \mathbb{L} 48'21	0.54598 AU
asc. node	11146 Dec 02 20:59	29° \mathbb{M} 52'21		morning rise	11147 Oct 21 14:29	26° \mathbb{L} 15'59	
	11146 Dec 02 23:04	0° \mathbb{X}		direct	11147 Oct 25 14:46	25° \mathbb{L} 41'24	
morning set	11146 Dec 15 16:01	23° \mathbb{X} 18'10			11147 Nov 05 08:19	0° \mathbb{M}	
	11146 Dec 18 20:42	0° \mathbb{Z}		morning max el	11147 Nov 07 12:55	1° \mathbb{M} 53'45	22°51'47
superior conj	11146 Dec 22 23:20	8° \mathbb{Z} 35'34	1°29'40	asc. node	11147 Nov 19 17:56	18° \mathbb{M} 01'34	
minimum elong	11146 Dec 23 01:21	8° \mathbb{Z} 45'56	1°30'10		11147 Nov 26 05:08	0° \mathbb{X}	
max. Earth dist.	11146 Dec 27 15:36	18° \mathbb{Z} 03'35	1.35372 AU	morning set	11147 Nov 30 03:14	8° \mathbb{X} 06'05	
evening rise	11146 Dec 31 17:01	25° \mathbb{Z} 52'36					
	11147 Jan 02 22:31	0° \approx		superior conj	11147 Dec 07 02:41	23° \mathbb{X} 05'40	1°37'42
desc. node	11147 Jan 05 08:37	4° \approx 20'27		minimum elong	11147 Dec 07 03:33	23° \mathbb{X} 10'16	1°38'20
	11147 Jan 21 14:02	0° \mathbb{X}			11147 Dec 10 09:07	0° \mathbb{Z}	
evening max el	11147 Feb 05 01:42	17° \mathbb{X} 32'00	26°28'29	max. Earth dist.	11147 Dec 10 08:46	29° \mathbb{X} 58'12	1.33688 AU
retrograde	11147 Feb 18 00:45	24° \mathbb{X} 50'57		evening rise	11147 Dec 15 00:38	9° \mathbb{Z} 24'45	
evening set	11147 Feb 24 08:41	22° \mathbb{X} 18'55		desc. node	11147 Dec 23 05:34	24° \mathbb{Z} 37'00	
min. Earth dist.	11147 Feb 28 11:27	18° \mathbb{X} 05'22	0.66537 AU		11147 Dec 26 09:39	0° \approx	
asc. node	11147 Feb 28 19:30	17° \mathbb{X} 41'24			11148 Jan 17 11:49	0° \mathbb{X}	
inferior conj	11147 Mar 02 06:53	15° \mathbb{X} 54'19	0°28'36	evening max el	11148 Jan 18 15:12	1° \mathbb{X} 07'19	27°13'03
minimum elong	11147 Mar 02 06:08	15° \mathbb{X} 56'35	0°28'31	retrograde	11148 Feb 01 02:24	8° \mathbb{X} 30'54	
morning rise	11147 Mar 08 04:32	10° \mathbb{X} 11'37		evening set	11148 Feb 07 19:44	5° \mathbb{X} 58'00	
direct	11147 Mar 11 05:13	9° \mathbb{X} 20'08		min. Earth dist.	11148 Feb 11 17:29	2° \mathbb{X} 17'32	0.65046 AU
morning max el	11147 Mar 17 17:38	12° \mathbb{X} 49'12	18°26'34		11148 Feb 13 19:16	30° \mathbb{R} \approx	
	11147 Mar 30 07:19	0° \mathbb{Y}		inferior conj	11148 Feb 14 00:37	29° \approx 45'08	-0°33'03
desc. node	11147 Apr 03 09:34	6° \mathbb{Y} 26'05		minimum elong	11148 Feb 14 01:36	29° \approx 42'26	0°32'17
morning set	11147 Apr 07 00:45	12° \mathbb{Y} 11'18		asc. node	11148 Feb 15 16:45	27° \approx 56'41	
	11147 Apr 18 07:55	0° \mathbb{Z}		morning rise	11148 Feb 20 09:01	24° \approx 15'06	
superior conj	11147 Apr 22 21:25	7° \mathbb{Z} 08'23	-1°56'06	direct	11148 Feb 23 00:37	23° \approx 37'58	
minimum elong	11147 Apr 22 12:50	6° \mathbb{Z} 34'49	1°55'50	morning max el	11148 Feb 29 09:42	26° \approx 58'18	17°58'04
max. Earth dist.	11147 Apr 23 06:04	7° \mathbb{Z} 42'11	1.45690 AU		11148 Mar 03 02:27	0° \mathbb{X}	
	11147 May 07 11:27	0° \mathbb{I}		morning set	11148 Mar 18 04:10	23° \mathbb{X} 22'48	
evening rise	11147 May 08 16:51	1° \mathbb{I} 55'54		desc. node	11148 Mar 20 06:16	26° \mathbb{X} 49'19	
greatest brilliancy	11147 May 18 04:25	16° \mathbb{I} 50'28	-0.8m		11148 Mar 22 04:44	0° \mathbb{Y}	
	11147 May 27 05:07	0° \mathbb{L}		superior conj	11148 Apr 01 09:02	16° \mathbb{Y} 24'43	-1°22'40
asc. node	11147 May 27 17:17	0° \mathbb{L} 38'54		minimum elong	11148 Apr 01 00:23	15° \mathbb{Y} 50'23	1°21'47
evening max el	11147 May 30 22:22	4° \mathbb{L} 18'53	18°54'20	max. Earth dist.	11148 Apr 05 02:04	22° \mathbb{Y} 16'03	1.45437 AU
retrograde	11147 Jun 06 15:54	8° \mathbb{L} 01'48			11148 Apr 10 00:52	0° \mathbb{Z}	
evening set	11147 Jun 10 01:01	6° \mathbb{L} 55'52		evening rise	11148 Apr 17 10:50	11° \mathbb{Z} 27'42	
inferior conj	11147 Jun 15 13:52	1° \mathbb{L} 12'59	3°11'38		11148 Apr 29 15:22	0° \mathbb{I}	
minimum elong	11147 Jun 15 14:54	1° \mathbb{L} 09'45	3°10'53	greatest brilliancy	11148 May 01 12:36	2° \mathbb{I} 47'23	-0.6m
	11147 Jun 16 12:56	30° \mathbb{R} \mathbb{I}		evening max el	11148 May 13 04:35	18° \mathbb{I} 01'59	19°44'07
min. Earth dist.	11147 Jun 17 07:10	29° \mathbb{I} 02'55	0.66111 AU	asc. node	11148 May 13 14:26	18° \mathbb{I} 26'23	
morning rise	11147 Jun 21 04:07	24° \mathbb{I} 51'31		retrograde	11148 May 20 13:50	22° \mathbb{I} 14'14	
direct	11147 Jun 27 12:27	22° \mathbb{I} 08'05		evening set	11148 May 24 07:53	20° \mathbb{I} 52'17	
desc. node	11147 Jun 30 09:52	22° \mathbb{I} 37'15		inferior conj	11148 May 29 16:16	14° \mathbb{I} 55'12	3°16'38
morning max el	11147 Jul 10 12:38	29° \mathbb{I} 52'34	26°32'19	minimum elong	11148 May 29 16:09	14° \mathbb{I} 55'35	3°16'01
	11147 Jul 10 15:34	0° \mathbb{L}		min. Earth dist.	11148 May 30 18:48	13° \mathbb{I} 26'35	0.67430 AU
	11147 Aug 01 22:01	0° \mathbb{L}		morning rise	11148 Jun 04 00:03	8° \mathbb{I} 34'39	
morning set	11147 Aug 15 10:25	23° \mathbb{L} 29'36		direct	11148 Jun 09 21:57	5° \mathbb{I} 57'42	
	11147 Aug 18 19:37	0° \mathbb{M}		desc. node	11148 Jun 16 06:55	8° \mathbb{I} 18'41	

morning max el	11148 Jun 21 22:42	13° Π 10'28	25°14'55		11149 Jun 07 11:20	0° Π	
	11148 Jul 05 13:07	0° \mathfrak{G}			11149 Jun 29 02:59	0° \mathfrak{G}	
	11148 Jul 24 16:29	0° Ω		morning set	11149 Jul 09 14:36	17° \mathfrak{G} 03'17	
morning set	11148 Jul 27 22:43	5° Ω 44'55		max. Earth dist.	11149 Jul 13 10:55	23° \mathfrak{G} 43'17	1.38716 AU
max. Earth dist.	11148 Jul 31 13:24	12° Ω 21'21	1.36470 AU		11149 Jul 16 22:59	0° Ω	
superior conj	11148 Aug 06 21:14	24° Ω 31'56	-0°25'47	superior conj	11149 Jul 20 21:34	7° Ω 18'16	-0°59'24
minimum elong	11148 Aug 06 22:52	24° Ω 40'03	0°25'53	minimum elong	11149 Jul 21 01:38	7° Ω 37'24	0°59'16
asc. node	11148 Aug 09 13:57	29° Ω 55'42		asc. node	11149 Jul 27 10:46	19° Ω 55'09	
	11148 Aug 09 14:48	0° \mathfrak{M}		evening rise	11149 Jul 29 23:57	24° Ω 54'27	
evening rise	11148 Aug 15 01:13	11° \mathfrak{M} 02'40			11149 Aug 01 14:55	0° \mathfrak{M}	
	11148 Aug 25 04:05	0° \mathfrak{L}		evening max el	11149 Aug 15 06:16	21° \mathfrak{M} 21'11	18°51'36
evening max el	11148 Sep 01 09:19	9° \mathfrak{L} 30'54	19°46'10	retrograde	11149 Aug 23 18:29	25° \mathfrak{M} 36'21	
retrograde	11148 Sep 11 11:02	14° \mathfrak{L} 31'26		evening set	11149 Aug 25 16:15	25° \mathfrak{M} 24'20	
desc. node	11148 Sep 12 04:50	14° \mathfrak{L} 29'54		desc. node	11149 Aug 30 02:10	23° \mathfrak{M} 36'12	
evening set	11148 Sep 13 08:07	14° \mathfrak{L} 21'45		inferior conj	11149 Sep 02 21:08	21° \mathfrak{M} 05'07	-1°11'02
inferior conj	11148 Sep 22 05:14	10° \mathfrak{L} 19'34	-3°04'02	minimum elong	11149 Sep 02 18:08	21° \mathfrak{M} 10'29	1°10'01
minimum elong	11148 Sep 21 21:10	10° \mathfrak{L} 32'03	3°01'05	min. Earth dist.	11149 Sep 05 22:05	18° \mathfrak{M} 55'10	0.56690 AU
min. Earth dist.	11148 Sep 24 07:41	9° \mathfrak{L} 01'45	0.55229 AU	morning rise	11149 Sep 10 16:45	16° \mathfrak{M} 09'05	
morning rise	11148 Sep 30 08:30	6° \mathfrak{L} 00'48		direct	11149 Sep 16 07:19	14° \mathfrak{M} 53'42	
direct	11148 Oct 05 04:24	5° \mathfrak{L} 09'31		morning max el	11149 Sep 30 13:25	22° \mathfrak{M} 15'46	26°15'30
morning max el	11148 Oct 18 23:53	12° \mathfrak{L} 00'18	24°39'26		11149 Oct 07 09:57	0° \mathfrak{L}	
	11148 Nov 01 17:16	0° \mathfrak{M}		asc. node	11149 Oct 23 11:38	26° \mathfrak{L} 05'26	
asc. node	11148 Nov 05 14:48	6° \mathfrak{M} 49'08			11149 Oct 25 10:52	0° \mathfrak{M}	
morning set	11148 Nov 13 15:03	22° \mathfrak{M} 52'21		morning set	11149 Oct 29 01:48	7° \mathfrak{M} 32'38	
	11148 Nov 16 21:52	0° \mathfrak{X}					
superior conj	11148 Nov 20 10:54	7° \mathfrak{X} 47'01	1°39'15	superior conj	11149 Nov 04 21:50	22° \mathfrak{M} 33'31	1°34'48
minimum elong	11148 Nov 20 10:36	7° \mathfrak{X} 45'22	1°39'51	minimum elong	11149 Nov 04 20:33	22° \mathfrak{M} 26'22	1°35'12
max. Earth dist.	11148 Nov 22 09:48	12° \mathfrak{X} 02'43	1.32443 AU	max. Earth dist.	11149 Nov 05 16:32	24° \mathfrak{M} 17'14	1.31676 AU
evening rise	11148 Nov 27 18:44	23° \mathfrak{X} 22'52		evening rise	11149 Nov 08 06:46	0° \mathfrak{X}	
	11148 Dec 01 02:26	0° \mathfrak{Z}			11149 Nov 11 20:31	7° \mathfrak{X} 39'58	
desc. node	11148 Dec 09 02:35	14° \mathfrak{Z} 34'03		desc. node	11149 Nov 23 13:10	0° \mathfrak{Z}	
	11148 Dec 19 02:11	0° \approx		evening max el	11149 Nov 25 23:41	4° \mathfrak{Z} 03'42	
evening max el	11148 Dec 31 02:55	14° \approx 17'18	27°31'23		11149 Dec 13 10:25	26° \mathfrak{Z} 48'57	27°17'50
retrograde	11149 Jan 13 20:59	21° \approx 38'07		retrograde	11149 Dec 17 04:28	0° \approx	
evening set	11149 Jan 20 20:16	19° \approx 11'23		evening set	11149 Dec 27 07:53	4° \approx 03'29	
min. Earth dist.	11149 Jan 24 14:24	16° \approx 00'59	0.63235 AU		11150 Jan 03 07:08	1° \approx 51'43	
inferior conj	11149 Jan 27 08:25	13° \approx 17'09	-1°43'22	min. Earth dist.	11150 Jan 05 21:53	30° \mathfrak{R} \mathfrak{Z}	
minimum elong	11149 Jan 27 11:47	13° \approx 08'44	1°41'28	inferior conj	11150 Jan 07 00:54	29° \mathfrak{Z} 04'35	0.61187 AU
asc. node	11149 Jan 27 11:47	13° \approx 08'44	1°41'28	minimum elong	11150 Jan 10 03:01	26° \mathfrak{Z} 22'09	-2°59'39
morning rise	11149 Feb 01 13:58	8° \approx 51'05		morning rise	11150 Jan 10 09:08	26° \mathfrak{Z} 08'42	2°56'47
direct	11149 Feb 03 05:31	8° \approx 02'55		asc. node	11150 Jan 17 13:49	21° \mathfrak{Z} 26'55	
morning max el	11149 Feb 05 13:56	7° \approx 36'29		direct	11150 Jan 19 11:09	21° \mathfrak{Z} 07'54	
	11149 Feb 12 03:20	10° \approx 58'29	17°46'58	morning max el	11150 Jan 19 17:33	21° \mathfrak{Z} 07'36	
	11149 Feb 25 00:46	0° \mathfrak{H}			11150 Jan 26 19:18	24° \mathfrak{Z} 41'06	17°53'59
morning set	11149 Feb 28 09:30	5° \mathfrak{H} 48'53		morning set	11150 Jan 31 03:55	0° \approx	
desc. node	11149 Mar 07 02:57	17° \mathfrak{H} 22'11			11150 Feb 11 10:25	19° \approx 09'37	
					11150 Feb 17 10:18	0° \mathfrak{H}	
superior conj	11149 Mar 12 16:17	26° \mathfrak{H} 39'10	-0°41'08	desc. node	11150 Feb 21 23:39	8° \mathfrak{H} 00'52	
minimum elong	11149 Mar 12 12:01	26° \mathfrak{H} 21'34	0°40'24				
	11149 Mar 14 17:20	0° \mathfrak{Y}		superior conj	11150 Feb 22 00:25	8° \mathfrak{H} 04'11	-0°00'15
max. Earth dist.	11149 Mar 18 20:37	6° \mathfrak{Y} 40'07	1.44463 AU	minimum elong	11150 Feb 22 00:25	8° \mathfrak{H} 04'11	0°00'04
evening rise	11149 Mar 27 22:15	20° \mathfrak{Y} 51'41		behind sun begin	11150 Feb 21 16:22	7° \mathfrak{H} 29'16	
	11149 Apr 02 22:26	0° \mathfrak{B}		behind sun end	11150 Feb 22 08:28	8° \mathfrak{H} 39'01	
	11149 Apr 24 13:10	0° Π		max. Earth dist.	11150 Mar 01 10:57	20° \mathfrak{H} 36'24	1.42878 AU
evening max el	11149 Apr 26 05:04	1° Π 46'14	20°48'05		11150 Mar 07 07:02	0° \mathfrak{Y}	
asc. node	11149 Apr 30 11:37	5° Π 18'33		evening rise	11150 Mar 07 18:21	0° \mathfrak{Y} 44'34	
retrograde	11149 May 04 12:38	6° Π 37'06			11150 Mar 27 11:30	0° \mathfrak{B}	
evening set	11149 May 08 16:23	4° Π 59'10		evening max el	11150 Apr 09 00:09	15° \mathfrak{B} 31'01	22°02'39
	11149 May 13 02:28	30° \mathfrak{R} \mathfrak{B}		asc. node	11150 Apr 17 08:50	20° \mathfrak{B} 59'37	
inferior conj	11149 May 13 22:59	28° \mathfrak{B} 49'33	3°09'26	retrograde	11150 Apr 18 10:24	21° \mathfrak{B} 05'06	
minimum elong	11149 May 13 21:53	28° \mathfrak{B} 53'20	3°08'47	evening set	11150 Apr 23 00:45	19° \mathfrak{B} 11'48	
min. Earth dist.	11149 May 14 11:37	28° \mathfrak{B} 05'54	0.68282 AU	inferior conj	11150 Apr 28 07:51	12° \mathfrak{B} 51'58	2°51'33
morning rise	11149 May 19 03:10	22° \mathfrak{B} 32'23		minimum elong	11150 Apr 28 06:03	12° \mathfrak{B} 58'16	2°50'49
direct	11149 May 24 12:29	20° \mathfrak{B} 09'40		min. Earth dist.	11150 Apr 28 07:32	12° \mathfrak{B} 53'05	0.68674 AU
desc. node	11149 Jun 03 03:53	25° \mathfrak{B} 27'43		morning rise	11150 May 03 11:10	6° \mathfrak{B} 39'45	
morning max el	11149 Jun 04 08:31	26° \mathfrak{B} 37'50	23°46'53	direct	11150 May 08 07:08	4° \mathfrak{B} 36'06	

morning max el	11150 May 17 20:10	10° C 12'42	22°17'38	direct	11151 Apr 22 04:51	19° Y 11'09	
desc. node	11150 May 21 00:47	13° C 40'28		morning max el	11151 Apr 30 12:58	23° Y 57'55	20°55'17
	11150 Jun 02 09:41	0° II			11151 May 05 19:57	0° C	
morning set	11150 Jun 20 05:18	27° II 12'32		desc. node	11151 May 07 21:36	2° C 39'49	
	11150 Jun 21 22:23	0° C			11151 May 26 17:50	0° II	
max. Earth dist.	11150 Jun 25 09:39	5° C 45'43	1.40998 AU	morning set	11151 May 30 18:40	6° II 14'35	
				max. Earth dist.	11151 Jun 07 14:28	18° II 41'42	1.43042 AU
	11151 Jun 14 10:25	0° C					
superior conj	11150 Jul 03 04:35	19° C 15'24	-1°31'50	superior conj	11151 Jun 14 13:57	0° C 14'56	-1°58'19
minimum elong	11150 Jul 03 10:44	19° C 42'56	1°31'42	minimum elong	11151 Jun 14 20:10	0° C 41'13	1°58'31
	11150 Jul 09 02:14	0° C			11151 Jun 26 10:31	20° C 55'16	
evening rise	11150 Jul 13 12:27	8° C 15'20		evening rise	11151 Jul 01 04:33	29° C 20'38	
asc. node	11150 Jul 14 07:37	9° C 44'52		asc. node	11151 Jul 01 13:33	0° C	
	11150 Jul 26 05:57	0° C			11151 Jul 13 00:55	16° C 52'20	18°04'27
evening max el	11150 Jul 29 12:48	3° C 51'25	18°18'06	evening max el	11151 Jul 19 15:56	20° C 16'09	
retrograde	11150 Aug 05 20:51	7° C 33'27		retrograde	11151 Jul 22 04:12	19° C 46'49	
evening set	11150 Aug 08 01:06	7° C 14'37		evening set	11151 Jul 28 20:30	14° C 47'23	1°42'17
inferior conj	11150 Aug 15 10:46	2° C 35'10	0°27'48	inferior conj	11151 Jul 28 23:05	14° C 41'07	1°40'58
minimum elong	11150 Aug 15 11:43	2° C 33'10	0°27'05	minimum elong	11151 Aug 01 00:24	11° C 44'50	0.60990 AU
desc. node	11150 Aug 16 23:29	1° C 17'42		min. Earth dist.	11151 Aug 03 20:46	9° C 22'20	
	11150 Aug 18 13:05	30° C 42'00		desc. node	11151 Aug 04 15:17	8° C 50'09	
min. Earth dist.	11150 Aug 18 19:11	29° C 47'48	0.58718 AU	morning rise	11151 Aug 11 06:12	6° C 37'58	
morning rise	11150 Aug 22 18:51	27° C 03'45		direct	11151 Aug 25 12:25	14° C 36'15	27°55'32
direct	11150 Aug 29 00:40	25° C 19'10			11151 Sep 06 23:14	0° C	
	11150 Sep 08 22:43	0° C			11151 Sep 24 11:18	0° C	
morning max el	11150 Sep 12 09:29	3° C 04'03	27°23'56	asc. node	11151 Sep 27 05:11	5° C 33'07	
	11150 Oct 01 23:39	0° C		morning set	11151 Sep 27 13:13	6° C 14'35	
asc. node	11150 Oct 10 08:25	15° C 42'06		max. Earth dist.	11151 Oct 03 09:26	18° C 45'22	1.31611 AU
morning set	11150 Oct 13 09:49	22° C 01'44					
	11150 Oct 17 02:24	0° C					
superior conj	11150 Oct 20 09:35	7° C 18'56	1°24'41	superior conj	11151 Oct 04 20:19	21° C 57'45	1°09'08
minimum elong	11150 Oct 20 07:37	7° C 07'57	1°24'48	minimum elong	11151 Oct 04 18:04	21° C 45'20	1°08'58
max. Earth dist.	11150 Oct 20 01:36	6° C 34'28	1.31394 AU		11151 Oct 08 11:26	0° C	
evening rise	11150 Oct 27 03:32	22° C 09'22		evening rise	11151 Oct 11 13:43	6° C 45'19	
	11150 Oct 30 22:00	0° C			11151 Oct 23 13:32	0° C	
desc. node	11150 Nov 12 20:51	22° C 55'06		desc. node	11151 Oct 30 18:06	10° C 53'03	
	11150 Nov 17 21:39	0° C		evening max el	11151 Nov 07 04:03	19° C 25'12	25°11'30
evening max el	11150 Nov 25 11:15	8° C 32'31	26°30'04	retrograde	11151 Nov 21 00:34	26° C 22'38	
retrograde	11150 Dec 09 09:51	15° C 39'16		evening set	11151 Nov 26 19:04	25° C 07'14	
evening set	11150 Dec 16 00:18	13° C 52'06		min. Earth dist.	11151 Dec 01 16:06	22° C 26'17	0.57067 AU
min. Earth dist.	11150 Dec 20 00:59	11° C 16'20	0.59053 AU	inferior conj	11151 Dec 04 11:12	20° C 34'52	-5°18'14
inferior conj	11150 Dec 23 04:58	8° C 51'08	-4°15'29	minimum elong	11151 Dec 04 18:10	20° C 23'15	5°16'24
minimum elong	11150 Dec 23 13:01	8° C 35'41	4°12'28	morning rise	11151 Dec 12 19:32	16° C 23'08	
morning rise	11150 Dec 31 04:29	4° C 17'22		direct	11151 Dec 15 03:17	16° C 07'24	
direct	11151 Jan 02 07:17	4° C 01'39		asc. node	11151 Dec 24 05:24	20° C 27'42	
asc. node	11151 Jan 06 08:18	5° C 02'16		morning max el	11151 Dec 24 07:24	20° C 32'28	19°08'33
morning max el	11151 Jan 10 05:59	7° C 56'20	18°20'34		11151 Dec 31 13:29	0° C	
	11151 Jan 24 09:30	0° C		morning set	11152 Jan 10 01:24	17° C 31'45	
morning set	11151 Jan 26 01:12	3° C 08'26			11152 Jan 16 08:29	0° C	
superior conj	11151 Feb 04 07:12	20° C 32'32	0°34'54	superior conj	11152 Jan 18 07:52	3° C 50'07	1°02'20
minimum elong	11151 Feb 04 09:36	20° C 43'27	0°34'58	minimum elong	11152 Jan 18 10:53	4° C 04'41	1°02'30
desc. node	11151 Feb 08 20:24	28° C 41'57		max. Earth dist.	11152 Jan 25 02:47	16° C 29'56	1.38666 AU
	11151 Feb 09 14:14	0° C		desc. node	11152 Jan 26 17:12	19° C 21'19	
max. Earth dist.	11151 Feb 11 20:21	3° C 53'38	1.40869 AU	evening rise	11152 Jan 28 21:43	23° C 10'59	
evening rise	11151 Feb 16 09:19	11° C 29'51			11152 Feb 01 22:27	0° C	
	11151 Feb 28 05:18	0° C			11152 Feb 22 01:20	0° C	
evening max el	11151 Mar 22 15:35	29° C 18'43	23°22'45	evening max el	11152 Mar 04 05:20	13° C 08'58	24°42'08
	11151 Mar 23 08:25	0° C		retrograde	11152 Mar 15 21:07	19° C 57'01	
retrograde	11151 Apr 02 05:41	5° C 33'43		evening set	11152 Mar 21 10:55	17° C 37'23	
asc. node	11151 Apr 04 06:06	5° C 14'26		asc. node	11152 Mar 21 03:25	17° C 52'55	
evening set	11151 Apr 07 07:27	3° C 26'20		min. Earth dist.	11152 Mar 25 23:49	12° C 29'17	0.68135 AU
	11151 Apr 10 11:22	30° C 42'52		inferior conj	11152 Mar 27 00:25	11° C 07'32	1°46'37
min. Earth dist.	11151 Apr 12 04:21	27° C 42'52	0.68620 AU	minimum elong	11152 Mar 26 22:21	11° C 14'23	1°45'53
inferior conj	11151 Apr 12 16:58	26° C 59'27	2°23'51	morning rise	11152 Apr 01 09:58	5° C 09'19	
minimum elong	11151 Apr 12 14:48	27° C 06'53	2°23'03	direct	11152 Apr 05 04:13	3° C 48'14	
morning rise	11151 Apr 17 22:06	20° C 53'31		morning max el	11152 Apr 12 13:13	7° C 54'35	19°45'19

desc. node	11152 Apr 23 18:23	22°♿12'33		minimum elong	11153 Mar 11 02:52	25°♿16'50	0°59'27
greatest brilliancy	11152 Apr 25 09:37	24°♿34'57	-0.6m	morning rise	11153 Mar 16 20:49	19°♿23'37	
	11152 Apr 29 01:29	0°♿		direct	11153 Mar 20 03:34	18°♿22'07	
morning set	11152 May 08 18:15	14°♿43'54		morning max el	11153 Mar 26 21:07	22°♿00'48	18°50'37
	11152 May 18 13:35	0°♿			11153 Apr 02 10:15	0°♿	
max. Earth dist.	11152 May 20 02:34	2°♿26'14	1.44599 AU	desc. node	11153 Apr 10 15:07	12°♿09'43	
				morning set	11153 Apr 18 02:41	23°♿45'47	
superior conj	11152 May 24 23:09	10°♿12'25	-2°12'25		11153 Apr 22 02:47	0°♿	
minimum elong	11152 May 25 01:09	10°♿20'33	2°12'58	max. Earth dist.	11153 May 02 20:01	16°♿43'46	1.45501 AU
	11152 Jun 05 22:39	0°♿					
evening rise	11152 Jun 07 13:09	2°♿42'44		superior conj	11153 May 04 12:02	19°♿20'42	-2°07'56
asc. node	11152 Jun 17 01:33	18°♿36'41		minimum elong	11153 May 04 06:36	18°♿59'20	2°08'10
	11152 Jun 25 09:15	0°♿			11153 May 11 06:02	0°♿	
evening max el	11152 Jun 25 14:54	0°♿14'09	18°09'41	evening rise	11153 May 19 16:20	13°♿30'17	
retrograde	11152 Jul 01 23:34	3°♿34'45			11153 May 29 23:14	0°♿	
evening set	11152 Jul 04 19:51	2°♿52'18		asc. node	11153 Jun 03 22:37	7°♿25'42	
	11152 Jul 08 14:56	30°♿		evening max el	11153 Jun 09 03:36	13°♿48'21	18°33'01
inferior conj	11152 Jul 10 22:28	27°♿34'27	2°32'33	retrograde	11153 Jun 15 15:26	17°♿19'37	
minimum elong	11152 Jul 11 01:01	27°♿27'27	2°31'21	evening set	11153 Jun 18 19:46	16°♿22'29	
min. Earth dist.	11152 Jul 13 14:46	24°♿39'17	0.63202 AU	inferior conj	11153 Jun 24 12:35	10°♿48'03	3°02'17
morning rise	11152 Jul 17 04:29	21°♿21'41		minimum elong	11153 Jun 24 14:16	10°♿42'59	3°01'23
desc. node	11152 Jul 20 18:00	19°♿22'06		min. Earth dist.	11153 Jun 26 14:24	8°♿18'02	0.65151 AU
direct	11152 Jul 23 21:20	18°♿49'23		morning rise	11153 Jun 30 07:49	4°♿27'54	
morning max el	11152 Aug 06 20:29	26°♿51'36	27°48'54	direct	11153 Jul 06 20:28	1°♿45'42	
	11152 Aug 09 19:11	0°♿		desc. node	11153 Jul 07 15:10	1°♿47'48	
	11152 Aug 30 15:06	0°♿		morning max el	11153 Jul 20 07:08	9°♿40'46	27°08'16
morning set	11152 Sep 10 09:49	20°♿05'34			11153 Aug 05 05:48	0°♿	
asc. node	11152 Sep 13 01:58	25°♿33'32			11153 Aug 23 01:32	0°♿	
	11152 Sep 15 04:39	0°♿		morning set	11153 Aug 24 20:46	3°♿26'40	
max. Earth dist.	11152 Sep 15 12:14	0°♿40'20	1.32335 AU	max. Earth dist.	11153 Aug 29 06:29	12°♿11'42	1.33570 AU
				asc. node	11153 Aug 30 22:42	15°♿38'19	
superior conj	11152 Sep 18 04:09	6°♿24'24	0°48'23				
minimum elong	11152 Sep 18 02:09	6°♿13'33	0°48'01	superior conj	11153 Sep 02 06:50	20°♿31'58	0°22'45
evening rise	11152 Sep 25 01:10	21°♿22'28		minimum elong	11153 Sep 02 05:42	20°♿25'59	0°22'22
	11152 Sep 29 04:21	0°♿			11153 Sep 06 17:23	0°♿	
desc. node	11152 Oct 16 15:22	27°♿37'21		evening rise	11153 Sep 09 11:55	5°♿54'23	
evening max el	11152 Oct 18 15:01	29°♿39'50	23°33'46		11153 Sep 22 09:09	0°♿	
	11152 Oct 18 23:27	0°♿		evening max el	11153 Sep 30 03:54	9°♿47'20	21°54'04
retrograde	11152 Nov 01 02:22	6°♿22'58		desc. node	11153 Oct 03 12:41	12°♿40'29	
evening set	11152 Nov 05 13:41	5°♿39'28		retrograde	11153 Oct 12 17:19	16°♿02'15	
min. Earth dist.	11152 Nov 12 01:05	2°♿34'51	0.55512 AU	evening set	11153 Oct 15 17:58	15°♿41'41	
inferior conj	11152 Nov 13 21:16	1°♿29'40	-5°48'03	inferior conj	11153 Oct 24 16:23	11°♿44'12	-5°24'50
minimum elong	11152 Nov 13 22:05	1°♿28'27	5°47'30	minimum elong	11153 Oct 24 09:04	11°♿54'26	5°23'18
	11152 Nov 16 11:40	30°♿		min. Earth dist.	11153 Oct 24 07:53	11°♿56'06	0.54672 AU
morning rise	11152 Nov 22 08:17	27°♿36'32		morning rise	11153 Nov 02 01:29	7°♿57'00	
direct	11152 Nov 25 04:12	27°♿16'52		direct	11153 Nov 05 14:34	7°♿29'27	
	11152 Dec 03 00:10	0°♿		morning max el	11153 Nov 17 19:08	13°♿16'16	21°51'42
morning max el	11152 Dec 05 20:06	2°♿20'10	20°19'23	asc. node	11153 Nov 26 23:25	24°♿50'25	
asc. node	11152 Dec 10 02:27	7°♿09'23			11153 Nov 30 01:53	0°♿	
	11152 Dec 23 06:13	0°♿		morning set	11153 Dec 08 17:47	16°♿56'19	
morning set	11152 Dec 24 07:47	2°♿10'24			11153 Dec 14 21:36	0°♿	
superior conj	11152 Dec 31 21:49	17°♿44'29	1°21'51	superior conj	11153 Dec 15 21:10	2°♿04'02	1°33'54
minimum elong	11153 Jan 01 00:22	17°♿57'22	1°22'13	minimum elong	11153 Dec 15 22:42	2°♿12'05	1°34'28
max. Earth dist.	11153 Jan 06 10:12	28°♿35'32	1.36511 AU	max. Earth dist.	11153 Dec 19 22:52	10°♿28'01	1.34607 AU
	11153 Jan 07 03:59	0°♿		evening rise	11153 Dec 24 05:42	18°♿54'25	
evening rise	11153 Jan 10 05:42	5°♿42'22		desc. node	11153 Dec 30 10:58	0°♿19'37	
desc. node	11153 Jan 12 14:03	9°♿55'28			11153 Dec 30 06:31	0°♿	
	11153 Jan 24 19:30	0°♿			11154 Jan 18 22:45	0°♿	
evening max el	11153 Feb 14 18:48	26°♿58'47	25°53'39	evening max el	11154 Jan 28 08:16	10°♿41'10	26°50'08
	11153 Feb 18 03:49	0°♿		retrograde	11154 Feb 10 12:59	18°♿03'18	
retrograde	11153 Feb 27 07:47	4°♿09'13		evening set	11154 Feb 17 01:24	15°♿29'47	
evening set	11153 Mar 05 09:31	1°♿40'22		min. Earth dist.	11154 Feb 21 01:48	11°♿30'54	0.65948 AU
	11153 Mar 07 04:03	30°♿		asc. node	11154 Feb 22 22:00	9°♿22'16	
asc. node	11153 Mar 08 00:43	29°♿03'32		inferior conj	11154 Feb 23 02:23	9°♿09'29	0°03'34
min. Earth dist.	11153 Mar 09 15:41	27°♿07'19	0.67238 AU	minimum elong	11154 Feb 23 02:16	9°♿09'48	0°03'48
inferior conj	11153 Mar 11 04:16	25°♿12'22	0°59'52	transit middle	11154 Feb 23 02:16	9°♿09'48	0°03'48

transit begin	11154 Feb 22 23:24	9° H 18'11			11155 Jan 29 19:08	30° R \approx	
transit end	11154 Feb 23 05:08	9° H 01'26		evening set	11155 Jan 31 08:20	28° \approx 58'48	
morning rise	11154 Mar 01 04:22	3° H 32'10		min. Earth dist.	11155 Feb 04 04:10	25° \approx 31'44	0.64305 AU
direct	11154 Mar 04 00:58	2° H 47'17		inferior conj	11155 Feb 06 16:13	22° \approx 52'46	-1°01'59
morning max el	11154 Mar 10 11:01	6° H 11'05	18°12'24	minimum elong	11155 Feb 06 18:08	22° \approx 47'40	1°00'45
	11154 Mar 26 23:52	0° Y		asc. node	11155 Feb 09 19:16	19° \approx 46'45	
desc. node	11154 Mar 28 11:49	2° Y 24'47		morning rise	11155 Feb 13 05:52	17° \approx 29'18	
morning set	11154 Mar 29 13:09	4° Y 06'51		direct	11155 Feb 15 18:01	16° \approx 57'20	
				morning max el	11155 Feb 22 04:10	20° \approx 17'23	17°51'11
superior conj	11154 Apr 13 18:46	28° Y 19'54	-1°43'32		11155 Mar 01 13:22	0° H	
minimum elong	11154 Apr 13 09:19	27° Y 42'50	1°42'56	morning set	11155 Mar 11 04:16	15° H 51'41	
	11154 Apr 14 20:19	0° B		desc. node	11155 Mar 15 08:30	22° H 52'15	
max. Earth dist.	11154 Apr 15 15:43	1° B 15'53	1.45666 AU		11155 Mar 19 15:51	0° Y	
evening rise	11154 Apr 29 20:23	23° B 23'08					
	11154 May 04 02:25	0° II		superior conj	11155 Mar 24 13:27	7° Y 57'37	-1°05'27
greatest brilliancy	11154 May 11 10:58	11° II 19'16	-0.7m	minimum elong	11155 Mar 24 06:25	7° Y 29'21	1°04'33
asc. node	11154 May 21 19:44	25° II 38'57		max. Earth dist.	11155 Mar 29 10:49	15° Y 45'06	1.45096 AU
evening max el	11154 May 23 12:35	27° II 29'11	19°13'36		11155 Apr 07 14:23	0° B	
	11154 May 26 12:04	0° B		evening rise	11155 Apr 09 09:32	2° B 45'45	
retrograde	11154 May 30 12:03	1° B 23'42		greatest brilliancy	11155 Apr 24 10:32	25° B 21'08	-0.6m
evening set	11154 Jun 03 00:49	0° B 11'02			11155 Apr 27 16:42	0° II	
	11154 Jun 03 07:03	30° R II		evening max el	11155 May 06 16:19	11° II 12'15	20°09'51
inferior conj	11154 Jun 08 11:22	24° II 21'43	3°15'23	asc. node	11155 May 08 16:54	13° II 04'19	
minimum elong	11154 Jun 08 11:55	24° II 19'59	3°14'43	retrograde	11155 May 14 10:36	15° II 40'26	
min. Earth dist.	11154 Jun 09 22:16	22° II 28'35	0.66716 AU	evening set	11155 May 18 08:34	14° II 11'52	
morning rise	11154 Jun 13 22:30	18° II 00'00		inferior conj	11155 May 23 15:53	8° II 09'18	3°14'57
direct	11154 Jun 20 02:35	15° II 18'20		minimum elong	11155 May 23 15:19	8° II 11'11	3°14'21
desc. node	11154 Jun 24 12:14	16° II 25'53		min. Earth dist.	11155 May 24 12:28	6° II 59'19	0.67843 AU
morning max el	11154 Jul 02 17:57	22° II 51'54	26°01'29	morning rise	11155 May 28 21:46	1° II 49'42	
	11154 Jul 09 01:00	0° B			11155 May 31 13:17	30° R B	
	11154 Jul 29 13:15	0° Q		direct	11155 Jun 03 14:28	29° B 17'47	
morning set	11154 Aug 07 18:37	16° Q 09'33			11155 Jun 06 21:16	0° II	
max. Earth dist.	11154 Aug 11 14:10	23° Q 21'29	1.35290 AU	desc. node	11155 Jun 11 09:15	2° II 47'10	
	11154 Aug 14 23:23	0° np		morning max el	11155 Jun 15 03:41	6° II 13'42	24°38'10
					11155 Jul 03 13:55	0° B	
superior conj	11154 Aug 17 01:53	4° np 14'25	-0°07'07	morning set	11155 Jul 20 22:50	28° B 01'54	
minimum elong	11154 Aug 17 02:19	4° np 16'36	0°07'22		11155 Jul 22 01:36	0° Q	
behind sun begin	11154 Aug 16 20:53	3° np 49'00		max. Earth dist.	11155 Jul 24 13:06	4° Q 27'18	1.37398 AU
behind sun end	11154 Aug 17 07:45	4° np 44'15					
asc. node	11154 Aug 17 19:28	5° np 44'01		superior conj	11155 Jul 31 10:08	17° Q 23'24	-0°39'58
evening rise	11154 Aug 24 19:57	20° np 15'51		minimum elong	11155 Jul 31 12:46	17° Q 36'12	0°39'57
	11154 Aug 29 16:09	0° Q		asc. node	11155 Aug 04 16:16	25° Q 46'30	
evening max el	11154 Sep 12 03:43	20° Q 24'28	20°27'14		11155 Aug 06 18:57	0° np	
desc. node	11154 Sep 20 09:59	25° Q 33'27		evening rise	11155 Aug 08 22:51	4° np 19'55	
retrograde	11154 Sep 23 05:21	25° Q 54'08			11155 Aug 24 01:28	0° Q	
evening set	11154 Sep 25 07:09	25° Q 43'23		evening max el	11155 Aug 25 17:33	1° Q 48'06	19°20'25
inferior conj	11154 Oct 04 09:09	21° Q 46'45	-4°05'55	retrograde	11155 Sep 04 02:30	6° Q 27'51	
minimum elong	11154 Oct 03 23:19	22° Q 01'04	4°02'46	evening set	11155 Sep 05 22:40	6° Q 17'51	
min. Earth dist.	11154 Oct 05 16:11	21° Q 01'32	0.54753 AU	desc. node	11155 Sep 07 07:17	5° Q 58'18	
morning rise	11154 Oct 12 14:57	17° Q 44'29		inferior conj	11155 Sep 14 13:48	2° Q 09'39	-2°15'42
direct	11154 Oct 16 23:18	17° Q 03'47		minimum elong	11155 Sep 14 07:48	2° Q 19'29	2°13'27
morning max el	11154 Oct 30 08:27	23° Q 33'45	23°37'45	min. Earth dist.	11155 Sep 17 03:55	0° Q 28'14	0.55761 AU
	11154 Nov 05 03:11	0° ml			11155 Sep 17 21:55	30° R np	
asc. node	11154 Nov 13 20:19	13° ml 16'56		morning rise	11155 Sep 22 14:18	27° np 35'29	
	11154 Nov 22 09:51	0° x		direct	11155 Sep 27 18:33	26° np 34'29	
morning set	11154 Nov 23 05:26	1° x 43'50			11155 Oct 07 08:40	0° Q	
				morning max el	11155 Oct 11 19:37	3° Q 40'11	25°22'38
					11155 Oct 30 11:37	0° ml	
superior conj	11154 Nov 30 02:53	16° x 39'47	1°39'08	asc. node	11155 Oct 31 17:10	2° ml 17'49	
minimum elong	11154 Nov 30 03:14	16° x 41'42	1°39'45	morning set	11155 Nov 07 17:01	16° ml 28'14	
max. Earth dist.	11154 Dec 02 19:14	22° x 24'47	1.33101 AU		11155 Nov 13 21:14	0° x	
	11154 Dec 06 10:46	0° B					
evening rise	11154 Dec 07 18:09	2° B 38'19					
desc. node	11154 Dec 17 07:57	20° B 28'21		superior conj	11155 Nov 14 12:32	1° x 24'32	1°38'05
	11154 Dec 23 03:00	0° \approx		minimum elong	11155 Nov 14 11:47	1° x 20'25	1°38'36
evening max el	11155 Jan 10 21:01	24° \approx 06'15	27°24'23	max. Earth dist.	11155 Nov 15 22:56	4° x 33'45	1.32058 AU
	11155 Jan 18 18:45	0° H		evening rise	11155 Nov 21 15:54	16° x 46'00	
retrograde	11155 Jan 24 11:57	1° H 30'17			11155 Nov 28 09:29	0° B	

desc. node	11155 Dec 04 04:59	10°♄15'00			11156 Nov 20 09:44	0°♄	
	11155 Dec 17 20:06	0°♄		evening max el	11156 Dec 05 12:41	19°♄15'39	27°01'44
evening max el	11155 Dec 24 07:26	7°♄02'28	27°29'49	retrograde	11156 Dec 19 10:41	26°♄26'00	
retrograde	11156 Jan 07 03:41	14°♄21'06		evening set	11156 Dec 26 07:26	24°♄23'54	
evening set	11156 Jan 14 03:33	11°♄59'53		min. Earth dist.	11156 Dec 30 03:09	21°♄43'12	0.60285 AU
min. Earth dist.	11156 Jan 17 21:02	9°♄00'08	0.62382 AU	inferior conj	11157 Jan 02 06:54	19°♄06'24	-3°32'24
inferior conj	11156 Jan 20 18:53	6°♄15'10	-2°15'17	minimum elong	11157 Jan 02 14:02	18°♄51'35	3°29'19
minimum elong	11156 Jan 20 23:26	6°♄04'24	2°12'55	morning rise	11157 Jan 09 23:21	14°♄19'41	
morning rise	11156 Jan 27 21:47	1°♄08'24		direct	11157 Jan 12 02:13	14°♄02'13	
asc. node	11156 Jan 27 16:28	1°♄13'03		asc. node	11157 Jan 13 13:39	14°♄11'01	
direct	11156 Jan 30 03:44	0°♄45'29		morning max el	11157 Jan 19 11:40	17°♄43'30	18°02'44
morning max el	11156 Feb 05 21:32	4°♄11'36	17°47'36		11157 Jan 28 05:53	0°♄	
morning set	11156 Feb 21 18:49	28°♄43'58		morning set	11157 Feb 04 02:18	12°♄23'02	
	11156 Feb 22 12:01	0°♄			11157 Feb 13 17:34	0°♄	
desc. node	11156 Mar 01 05:14	13°♄28'09		superior conj	11157 Feb 14 01:33	0°♄35'26	0°15'32
superior conj	11156 Mar 04 07:16	18°♄42'14	-0°23'19	minimum elong	11157 Feb 14 02:49	0°♄41'01	0°15'42
minimum elong	11156 Mar 04 05:00	18°♄32'40	0°22'47	behind sun begin	11157 Feb 14 01:24	0°♄34'43	
max. Earth dist.	11156 Mar 11 03:36	29°♄58'25	1.43858 AU	behind sun end	11157 Feb 14 04:14	0°♄47'19	
	11156 Mar 11 03:59	0°♄		desc. node	11157 Feb 16 01:57	4°♄08'05	
evening rise	11156 Mar 18 23:04	12°♄18'34		max. Earth dist.	11157 Feb 21 16:20	13°♄41'00	1.42073 AU
	11156 Mar 30 16:36	0°♄		evening rise	11157 Feb 27 02:31	22°♄32'26	
evening max el	11156 Apr 18 14:30	24°♄56'50	21°18'49		11157 Mar 03 20:18	0°♄	
asc. node	11156 Apr 24 14:05	29°♄27'58			11157 Mar 24 19:30	0°♄	
	11156 Apr 26 07:57	0°♄		evening max el	11157 Apr 01 07:56	8°♄43'03	22°36'23
retrograde	11156 Apr 27 09:02	0°♄05'32		retrograde	11157 Apr 11 05:49	14°♄34'26	
	11156 Apr 28 09:32	30°♄8'00		asc. node	11157 Apr 11 11:21	14°♄34'11	
evening set	11156 May 01 17:11	28°♄21'06		evening set	11157 Apr 16 01:03	12°♄34'51	
inferior conj	11156 May 06 23:45	22°♄07'05	3°03'04	inferior conj	11157 Apr 21 08:59	6°♄11'46	2°40'58
minimum elong	11156 May 06 22:19	22°♄12'04	3°02'23	minimum elong	11157 Apr 21 06:58	6°♄18'45	2°40'11
min. Earth dist.	11156 May 07 06:52	21°♄42'22	0.68510 AU	min. Earth dist.	11157 Apr 21 03:21	6°♄31'21	0.68713 AU
morning rise	11156 May 12 03:15	15°♄51'51		morning rise	11157 Apr 26 12:46	0°♄02'20	
direct	11156 May 17 07:03	13°♄36'32			11157 Apr 26 13:53	30°♄♄	
morning max el	11156 May 27 13:39	19°♄42'47	23°08'25	direct	11157 May 01 03:08	28°♄07'35	
desc. node	11156 May 28 06:13	20°♄25'16			11157 May 06 04:42	0°♄	
	11156 Jun 05 06:50	0°♄		morning max el	11157 May 10 03:08	3°♄21'34	21°41'22
	11156 Jun 25 18:08	0°♄		desc. node	11157 May 15 03:07	8°♄59'32	
morning set	11156 Jul 01 04:21	8°♄50'51			11157 May 30 07:07	0°♄	
max. Earth dist.	11156 Jul 05 10:07	16°♄02'20	1.39700 AU	morning set	11157 Jun 11 07:48	18°♄29'37	
				max. Earth dist.	11157 Jun 17 11:43	28°♄29'36	1.41915 AU
superior conj	11156 Jul 13 03:38	29°♄49'41	-1°13'33		11157 Jun 18 09:30	0°♄	
minimum elong	11156 Jul 13 08:42	0°♄13'01	1°13'23	superior conj	11157 Jun 25 01:59	11°♄23'23	-1°44'09
	11156 Jul 13 05:53	0°♄		minimum elong	11157 Jun 25 08:33	11°♄52'05	1°44'07
asc. node	11156 Jul 21 13:06	15°♄41'52			11157 Jul 05 10:39	0°♄	
evening rise	11156 Jul 22 17:38	17°♄58'56		evening rise	11157 Jul 06 00:36	1°♄03'55	
	11156 Jul 29 03:45	0°♄		asc. node	11157 Jul 08 09:59	5°♄26'15	
evening max el	11156 Aug 07 19:08	13°♄56'16	18°34'55	evening max el	11157 Jul 22 04:30	26°♄40'31	18°09'56
retrograde	11156 Aug 15 17:44	17°♄55'12			11157 Jul 27 10:36	0°♄	
evening set	11156 Aug 17 18:06	17°♄40'40		retrograde	11157 Jul 29 03:55	0°♄13'08	
desc. node	11156 Aug 24 04:38	14°♄17'11			11157 Jul 30 21:49	30°♄♄	
inferior conj	11156 Aug 25 14:47	13°♄12'57	-0°26'28	evening set	11157 Jul 31 11:33	29°♄50'09	
minimum elong	11156 Aug 25 13:44	13°♄14'58	0°26'17	inferior conj	11157 Aug 07 13:23	25°♄01'40	1°02'31
min. Earth dist.	11156 Aug 28 20:42	10°♄44'53	0.57503 AU	minimum elong	11157 Aug 07 15:18	24°♄57'24	1°01'25
morning rise	11156 Sep 02 05:55	8°♄01'28		min. Earth dist.	11157 Aug 10 20:52	22°♄05'17	0.59668 AU
direct	11156 Sep 08 03:49	6°♄33'53		desc. node	11157 Aug 11 01:58	21°♄54'33	
morning max el	11156 Sep 22 11:24	14°♄06'03	26°48'46	morning rise	11157 Aug 14 15:53	19°♄18'02	
	11156 Oct 05 03:57	0°♄		direct	11157 Aug 21 02:18	17°♄21'31	
asc. node	11156 Oct 17 13:58	21°♄43'30		morning max el	11157 Sep 04 10:37	25°♄12'37	27°42'20
	11156 Oct 21 14:44	0°♄			11157 Sep 08 20:43	0°♄	
morning set	11156 Oct 22 02:49	1°♄04'12			11157 Sep 28 13:36	0°♄	
superior conj	11156 Oct 29 00:02	16°♄11'08	1°31'11	asc. node	11157 Oct 04 10:46	11°♄27'01	
minimum elong	11156 Oct 28 22:25	16°♄02'07	1°31'29	morning set	11157 Oct 06 09:09	15°♄27'07	
max. Earth dist.	11156 Oct 29 07:14	16°♄51'12	1.31499 AU	max. Earth dist.	11157 Oct 12 16:28	29°♄08'02	1.31426 AU
	11156 Nov 04 07:09	0°♄					
evening rise	11156 Nov 04 20:11	1°♄09'20		superior conj	11157 Oct 13 11:35	0°♄54'15	1°18'44
desc. node	11156 Nov 20 02:06	29°♄29'56		minimum elong	11157 Oct 13 09:26	0°♄42'19	1°18'44

	11157 Oct 13 01:49	0°♍		superior conj	11158 Sep 27 21:17	15°♊27'48	1°00'57
evening rise	11157 Oct 20 04:49	15°♍42'11		minimum elong	11158 Sep 27 19:04	15°♊15'39	1°00'41
	11157 Oct 27 05:34	0°♊		evening rise	11158 Oct 04 15:43	0°♍18'25	
desc. node	11157 Nov 06 23:17	18°♊00'42			11158 Oct 04 12:17	0°♍	
	11157 Nov 16 18:47	0°♊			11158 Oct 20 19:01	0°♊	
evening max el	11157 Nov 17 10:05	0°♊36'53	25°59'51	desc. node	11158 Oct 24 20:32	5°♊29'54	
retrograde	11157 Dec 01 07:49	7°♊39'33		evening max el	11158 Oct 29 23:29	11°♊09'14	24°31'18
evening set	11157 Dec 07 15:36	6°♊05'01		retrograde	11158 Nov 12 17:32	18°♊02'38	
min. Earth dist.	11157 Dec 11 22:49	3°♊29'35	0.58185 AU	evening set	11158 Nov 17 23:56	17°♊01'06	
inferior conj	11157 Dec 15 00:44	1°♊16'50	-4°44'39	min. Earth dist.	11158 Nov 23 10:46	14°♊12'20	0.56329 AU
minimum elong	11157 Dec 15 08:52	1°♊02'11	4°41'59	inferior conj	11158 Nov 25 22:07	12°♊39'02	-5°36'17
	11157 Dec 16 20:16	30°♋♊		minimum elong	11158 Nov 26 03:06	12°♊31'10	5°35'07
morning rise	11157 Dec 23 04:42	26°♊52'41		morning rise	11158 Dec 04 08:26	8°♊36'27	
direct	11157 Dec 25 08:58	26°♊37'19		direct	11158 Dec 06 20:19	8°♊19'41	
asc. node	11157 Dec 31 10:48	28°♊45'28		morning max el	11158 Dec 16 15:19	13°♊00'05	19°35'57
	11158 Jan 02 00:14	0°♊		asc. node	11158 Dec 18 07:53	14°♊45'14	
morning max el	11158 Jan 02 18:52	0°♊43'15	18°38'13		11158 Dec 28 08:24	0°♊	
morning set	11158 Jan 18 21:32	26°♊33'25		morning set	11159 Jan 03 00:42	11°♊04'16	
	11158 Jan 20 16:05	0°♋					
				superior conj	11159 Jan 10 23:25	27°♊01'39	1°11'32
superior conj	11158 Jan 27 16:33	13°♋26'25	0°47'30	minimum elong	11159 Jan 11 02:21	27°♊16'00	1°11'47
minimum elong	11158 Jan 27 19:23	13°♋39'40	0°47'36		11159 Jan 12 11:56	0°♋	
desc. node	11158 Feb 02 22:42	24°♋48'37		max. Earth dist.	11159 Jan 17 06:21	9°♋01'35	1.37725 AU
max. Earth dist.	11158 Feb 04 00:23	26°♋41'18	1.39947 AU	evening rise	11159 Jan 20 23:40	15°♋44'54	
	11158 Feb 05 22:22	0°♋		desc. node	11159 Jan 20 19:30	15°♋26'27	
evening rise	11158 Feb 08 02:33	3°♋41'06			11159 Jan 29 10:38	0°♋	
	11158 Feb 25 01:25	0°♋			11159 Feb 19 16:03	0°♋	
evening max el	11158 Mar 14 22:17	22°♋31'13	23°56'57	evening max el	11159 Feb 25 11:39	6°♋21'44	25°13'53
retrograde	11158 Mar 25 23:37	29°♋01'33		retrograde	11159 Mar 09 13:21	13°♋21'31	
asc. node	11158 Mar 29 08:40	28°♋08'28		evening set	11159 Mar 15 08:13	10°♋57'23	
evening set	11158 Mar 31 06:35	26°♋48'21		asc. node	11159 Mar 16 05:58	10°♋07'54	
min. Earth dist.	11158 Apr 04 23:47	21°♋20'11	0.68468 AU	min. Earth dist.	11159 Mar 19 18:03	6°♋04'11	0.67800 AU
inferior conj	11158 Apr 05 17:37	20°♋19'34	2°09'13	inferior conj	11159 Mar 20 23:48	4°♋27'21	1°27'59
minimum elong	11158 Apr 05 15:26	20°♋26'58	2°08'24	minimum elong	11159 Mar 20 21:56	4°♋33'25	1°27'20
morning rise	11158 Apr 11 00:20	14°♋16'58			11159 Mar 24 18:10	30°♋♋	
direct	11158 Apr 15 01:35	12°♋44'00		morning rise	11159 Mar 26 12:01	28°♋32'55	
morning max el	11158 Apr 22 23:04	17°♋12'01	20°23'47	direct	11159 Mar 30 01:07	27°♋20'39	
desc. node	11158 May 01 23:56	28°♋14'11			11159 Apr 04 18:33	0°♋	
	11158 May 03 06:29	0°♋		morning max el	11159 Apr 06 02:47	1°♋14'02	19°20'02
morning set	11158 May 21 13:02	27°♋11'09		desc. node	11159 Apr 18 20:41	17°♋58'34	
	11158 May 23 08:35	0°♋		greatest brilliancy	11159 Apr 18 21:43	18°♋02'23	-0.7m
max. Earth dist.	11158 May 30 19:56	11°♋48'17	1.43773 AU		11159 Apr 26 19:22	0°♋	
				morning set	11159 Apr 30 13:30	5°♋46'27	
superior conj	11158 Jun 06 01:02	21°♋55'32	-2°06'14	max. Earth dist.	11159 May 13 10:09	25°♋47'29	1.45067 AU
minimum elong	11158 Jun 06 06:04	22°♋16'24	2°06'37		11159 May 16 02:04	0°♋	
	11158 Jun 10 20:42	0°♋					
evening rise	11158 Jun 18 15:02	13°♋22'51		superior conj	11159 May 17 00:36	1°♋29'30	-2°13'02
asc. node	11158 Jun 25 06:57	24°♋54'14		minimum elong	11159 May 16 23:32	1°♋25'17	2°13'34
	11158 Jun 28 09:16	0°♋		evening rise	11159 May 31 08:05	24°♋45'29	
evening max el	11158 Jul 05 17:44	9°♋50'34	18°04'22		11159 Jun 03 11:54	0°♋	
retrograde	11158 Jul 12 05:00	13°♋11'41		asc. node	11159 Jun 12 03:59	13°♋59'59	
evening set	11158 Jul 14 20:34	12°♋37'09		evening max el	11159 Jun 19 07:31	23°♋18'38	18°17'25
inferior conj	11158 Jul 21 06:32	7°♋29'33	2°06'24	retrograde	11159 Jun 25 16:33	26°♋42'12	
minimum elong	11158 Jul 21 09:16	7°♋22'34	2°05'04	evening set	11159 Jun 28 16:09	25°♋53'49	
min. Earth dist.	11158 Jul 24 06:02	4°♋27'28	0.61946 AU	inferior conj	11159 Jul 04 14:10	20°♋28'57	2°47'24
morning rise	11158 Jul 27 19:40	1°♋24'11		minimum elong	11159 Jul 04 16:24	20°♋22'32	2°46'19
desc. node	11158 Jul 28 23:15	0°♋39'31		min. Earth dist.	11159 Jul 07 00:36	17°♋42'18	0.64075 AU
	11158 Jul 30 05:29	30°♋♋		morning rise	11159 Jul 10 15:16	14°♋12'01	
direct	11158 Aug 03 12:02	29°♋02'22		desc. node	11159 Jul 15 20:27	11°♋40'53	
	11158 Aug 08 00:21	0°♋		direct	11159 Jul 17 07:03	11°♋33'49	
morning max el	11158 Aug 17 16:15	7°♋04'17	27°57'21	morning max el	11159 Jul 31 01:44	19°♋35'22	27°35'14
	11158 Sep 04 03:12	0°♋			11159 Aug 08 22:36	0°♋	
morning set	11158 Sep 20 09:56	29°♋31'00			11159 Aug 28 03:30	0°♋	
	11158 Sep 20 15:35	0°♋		morning set	11159 Sep 04 02:46	13°♋09'56	
asc. node	11158 Sep 21 07:31	1°♋22'09		asc. node	11159 Sep 08 04:16	21°♋24'41	
max. Earth dist.	11158 Sep 25 22:36	11°♋12'37	1.31851 AU	max. Earth dist.	11159 Sep 08 21:49	22°♋56'12	1.32793 AU

superior conj	11159 Sep 12 03:11	29° \mathbb{M} 46'48	0°38'04	superior conj	11160 Aug 26 02:59	13° \mathbb{M} 45'04	0°10'34
minimum elong	11159 Sep 12 01:28	29° \mathbb{M} 37'36	0°37'41	minimum elong	11160 Aug 26 02:26	13° \mathbb{M} 42'11	0°10'12
	11159 Sep 12 05:38	0° \mathbb{L}		behind sun begin	11160 Aug 25 21:56	13° \mathbb{M} 18'47	
evening rise	11159 Sep 19 03:03	14° \mathbb{L} 53'21		behind sun end	11160 Aug 26 06:56	14° \mathbb{M} 05'37	
	11159 Sep 26 14:51	0° \mathbb{M}		evening rise	11160 Sep 02 12:55	29° \mathbb{M} 21'51	
evening max el	11159 Oct 11 10:04	21° \mathbb{M} 15'52	22°50'38		11160 Sep 02 20:12	0° \mathbb{L}	
desc. node	11159 Oct 11 17:49	21° \mathbb{M} 34'32			11160 Sep 20 15:16	0° \mathbb{M}	
retrograde	11159 Oct 24 14:23	27° \mathbb{M} 49'19		evening max el	11160 Sep 22 02:59	1° \mathbb{M} 33'26	21°15'02
evening set	11159 Oct 28 10:08	27° \mathbb{M} 17'27		desc. node	11160 Sep 27 15:08	5° \mathbb{M} 46'23	
min. Earth dist.	11159 Nov 04 18:41	23° \mathbb{M} 57'06	0.55041 AU	retrograde	11160 Oct 04 02:12	7° \mathbb{M} 29'58	
inferior conj	11159 Nov 06 00:40	23° \mathbb{M} 14'13	-5°45'34	evening set	11160 Oct 06 15:08	7° \mathbb{M} 15'00	
minimum elong	11159 Nov 05 21:49	23° \mathbb{M} 18'18	5°44'54	inferior conj	11160 Oct 15 17:01	3° \mathbb{M} 19'55	-4°57'14
morning rise	11159 Nov 14 11:08	19° \mathbb{M} 25'24		minimum elong	11160 Oct 15 07:39	3° \mathbb{M} 33'04	4°54'51
direct	11159 Nov 17 13:46	19° \mathbb{M} 02'57		min. Earth dist.	11160 Oct 16 01:48	3° \mathbb{M} 07'34	0.54588 AU
morning max el	11159 Nov 28 22:04	24° \mathbb{M} 25'15	20°56'23		11160 Oct 22 10:06	30° \mathbb{R} \mathbb{L}	
	11159 Dec 03 19:48	0° \mathbb{X}		morning rise	11160 Oct 24 00:46	29° \mathbb{L} 28'58	
asc. node	11159 Dec 05 04:53	1° \mathbb{X} 53'52		direct	11160 Oct 27 22:15	28° \mathbb{L} 56'19	
morning set	11159 Dec 18 08:52	25° \mathbb{X} 46'30			11160 Nov 02 05:08	0° \mathbb{M}	
	11159 Dec 20 09:31	0° \mathbb{Z}		morning max el	11160 Nov 09 16:01	5° \mathbb{M} 01'59	22°35'53
				asc. node	11160 Nov 21 01:48	19° \mathbb{M} 56'03	
superior conj	11159 Dec 25 17:45	11° \mathbb{Z} 07'47	1°27'49		11160 Nov 26 15:32	0° \mathbb{X}	
minimum elong	11159 Dec 25 19:55	11° \mathbb{Z} 18'53	1°28'17	morning set	11160 Dec 01 19:49	10° \mathbb{X} 33'57	
max. Earth dist.	11159 Dec 30 15:13	20° \mathbb{Z} 57'56	1.35655 AU				
evening rise	11160 Jan 03 14:55	28° \mathbb{Z} 35'01		superior conj	11160 Dec 08 20:08	25° \mathbb{X} 35'10	1°36'55
	11160 Jan 04 09:15	0° \mathbb{A}		minimum elong	11160 Dec 08 21:10	25° \mathbb{X} 40'41	1°37'31
desc. node	11160 Jan 07 16:20	5° \mathbb{A} 56'56			11160 Dec 10 22:15	0° \mathbb{Z}	
	11160 Jan 22 17:01	0° \mathbb{H}		max. Earth dist.	11160 Dec 12 07:15	2° \mathbb{Z} 51'47	1.33914 AU
evening max el	11160 Feb 08 01:12	20° \mathbb{H} 09'59	26°20'01	evening rise	11160 Dec 16 20:39	12° \mathbb{Z} 02'02	
retrograde	11160 Feb 20 21:52	27° \mathbb{H} 27'00		desc. node	11160 Dec 24 13:16	26° \mathbb{Z} 15'30	
evening set	11160 Feb 27 04:12	24° \mathbb{H} 55'44			11160 Dec 26 17:34	0° \mathbb{A}	
asc. node	11160 Mar 02 03:16	20° \mathbb{H} 50'50			11161 Jan 16 22:58	0° \mathbb{H}	
min. Earth dist.	11160 Mar 02 07:52	20° \mathbb{H} 37'05	0.66733 AU	evening max el	11161 Jan 20 14:46	3° \mathbb{H} 47'22	27°07'52
inferior conj	11160 Mar 04 01:30	18° \mathbb{H} 30'04	0°37'11	retrograde	11161 Feb 03 00:21	11° \mathbb{H} 10'31	
minimum elong	11160 Mar 04 00:33	18° \mathbb{H} 32'58	0°37'00	evening set	11161 Feb 09 16:33	8° \mathbb{H} 37'17	
morning rise	11160 Mar 09 21:44	12° \mathbb{H} 45'36		min. Earth dist.	11161 Feb 13 14:58	4° \mathbb{H} 52'10	0.65294 AU
direct	11160 Mar 12 23:58	11° \mathbb{H} 51'35		inferior conj	11161 Feb 15 20:25	2° \mathbb{H} 22'22	-0°23'07
morning max el	11160 Mar 19 13:26	15° \mathbb{H} 22'44	18°32'13	minimum elong	11161 Feb 15 21:05	2° \mathbb{H} 20'30	0°22'29
	11160 Mar 30 12:39	0° \mathbb{Y}		asc. node	11161 Feb 17 00:32	1° \mathbb{H} 04'32	
desc. node	11160 Apr 04 17:22	8° \mathbb{Y} 04'12			11161 Feb 18 01:05	30° \mathbb{R} \mathbb{A}	
morning set	11160 Apr 09 07:49	15° \mathbb{Y} 18'58		morning rise	11161 Feb 22 03:05	26° \mathbb{A} 50'22	
	11160 Apr 18 16:01	0° \mathbb{B}		direct	11161 Feb 24 19:58	26° \mathbb{A} 11'17	
				morning max el	11161 Mar 03 04:59	29° \mathbb{A} 32'02	18°01'13
superior conj	11160 Apr 25 08:42	10° \mathbb{B} 28'23	-1°59'49		11161 Mar 03 16:06	0° \mathbb{H}	
minimum elong	11160 Apr 25 00:44	9° \mathbb{B} 57'14	1°59'41	morning set	11161 Mar 21 06:52	26° \mathbb{H} 17'33	
max. Earth dist.	11160 Apr 25 04:32	10° \mathbb{B} 12'06	1.45670 AU	desc. node	11161 Mar 22 14:03	28° \mathbb{H} 25'15	
	11160 May 07 19:10	0° \mathbb{I}			11161 Mar 23 13:13	0° \mathbb{Y}	
evening rise	11160 May 11 00:53	5° \mathbb{I} 07'40		superior conj	11161 Apr 04 18:26	19° \mathbb{Y} 38'31	-1°28'29
greatest brilliancy	11160 May 19 16:39	18° \mathbb{I} 49'43	-0.8m	minimum elong	11161 Apr 04 09:23	19° \mathbb{Y} 02'45	1°27'38
	11160 May 27 03:07	0° \mathbb{C}		max. Earth dist.	11161 Apr 08 00:46	24° \mathbb{Y} 46'48	1.45523 AU
asc. node	11160 May 29 01:03	2° \mathbb{C} 35'12			11161 Apr 11 08:54	0° \mathbb{B}	
evening max el	11160 Jun 01 18:56	6° \mathbb{C} 56'41	18°48'18	evening rise	11161 Apr 20 21:05	14° \mathbb{B} 43'51	
retrograde	11160 Jun 08 10:40	10° \mathbb{C} 36'03			11161 Apr 30 20:29	0° \mathbb{I}	
evening set	11160 Jun 11 18:34	9° \mathbb{C} 32'22		greatest brilliancy	11161 May 04 08:42	5° \mathbb{I} 15'20	-0.7m
inferior conj	11160 Jun 17 08:21	3° \mathbb{C} 51'39	3°09'37	asc. node	11161 May 15 22:11	20° \mathbb{I} 29'48	
minimum elong	11160 Jun 17 09:33	3° \mathbb{C} 47'54	3°08'51	evening max el	11161 May 16 01:52	20° \mathbb{I} 39'11	19°35'44
min. Earth dist.	11160 Jun 19 03:52	1° \mathbb{C} 36'09	0.65877 AU	retrograde	11161 May 23 08:20	24° \mathbb{I} 46'27	
	11160 Jun 20 12:24	30° \mathbb{R} \mathbb{I}		evening set	11161 May 27 01:01	23° \mathbb{I} 26'50	
morning rise	11160 Jun 22 23:48	27° \mathbb{I} 30'30		inferior conj	11161 Jun 01 09:52	17° \mathbb{I} 31'39	3°16'41
direct	11160 Jun 29 09:25	24° \mathbb{I} 47'03		minimum elong	11161 Jun 01 09:55	17° \mathbb{I} 31'28	3°16'04
desc. node	11160 Jul 01 17:35	25° \mathbb{I} 06'07		min. Earth dist.	11161 Jun 02 14:30	15° \mathbb{I} 56'39	0.67259 AU
	11160 Jul 09 19:21	0° \mathbb{C}		morning rise	11161 Jun 06 18:27	11° \mathbb{I} 10'44	
morning max el	11160 Jul 12 12:25	2° \mathbb{C} 34'29	26°42'23	direct	11161 Jun 12 17:59	8° \mathbb{I} 32'26	
	11160 Aug 02 04:09	0° \mathbb{O}		desc. node	11161 Jun 18 14:39	10° \mathbb{I} 31'48	
morning set	11160 Aug 17 08:37	26° \mathbb{O} 16'05		morning max el	11161 Jun 24 22:44	15° \mathbb{I} 50'55	25°27'26
	11160 Aug 19 07:15	0° \mathbb{M}			11161 Jul 06 14:45	0° \mathbb{C}	
max. Earth dist.	11160 Aug 21 11:24	4° \mathbb{M} 16'31	1.34245 AU		11161 Jul 26 01:40	0° \mathbb{O}	
asc. node	11160 Aug 25 01:01	11° \mathbb{M} 30'35					

morning set	11161 Jul 30 23:30	8°Ω38'40		max. Earth dist.	11162 Jul 16 12:49	26°Ω39'39	1.38373 AU
max. Earth dist.	11161 Aug 03 15:10	15°Ω22'53	1.36153 AU		11162 Jul 18 09:31	0°Ω	
superior conj	11161 Aug 09 17:51	27°Ω14'23	-0°20'47	superior conj	11162 Jul 23 20:22	10°Ω06'46	-0°54'17
minimum elong	11161 Aug 09 19:09	27°Ω20'53	0°20'56	minimum elong	11162 Jul 24 00:03	10°Ω24'16	0°54'12
	11161 Aug 11 02:53	0°Π		asc. node	11162 Jul 29 18:35	21°Ω35'44	
asc. node	11161 Aug 11 21:46	1°Π35'23		evening rise	11162 Aug 01 19:00	27°Ω32'15	
evening rise	11161 Aug 17 19:05	13°Π37'03			11162 Aug 03 01:09	0°Π	
	11161 Aug 26 08:00	0°Ω		evening max el	11162 Aug 18 03:53	24°Π12'26	18°58'23
evening max el	11161 Sep 04 08:43	12°Ω29'14	19°56'09	retrograde	11162 Aug 26 21:18	28°Π33'44	
retrograde	11161 Sep 14 16:38	17°Ω37'27		evening set	11162 Aug 28 18:21	28°Π22'25	
desc. node	11161 Sep 14 12:29	17°Ω37'22		desc. node	11162 Sep 01 09:49	27°Π02'47	
evening set	11161 Sep 16 14:29	17°Ω27'42		inferior conj	11162 Sep 06 02:02	24°Π06'14	-1°27'43
inferior conj	11161 Sep 25 13:15	13°Ω27'10	-3°20'55	minimum elong	11162 Sep 05 22:17	24°Π12'49	1°26'21
minimum elong	11161 Sep 25 04:34	13°Ω40'21	3°17'50	min. Earth dist.	11162 Sep 09 00:41	22°Π03'12	0.56429 AU
min. Earth dist.	11161 Sep 27 10:56	12°Ω17'51	0.55077 AU	morning rise	11162 Sep 13 23:02	19°Π15'45	
morning rise	11161 Oct 03 17:17	9°Ω13'13		direct	11162 Sep 19 10:56	18°Π04'16	
direct	11161 Oct 08 10:09	8°Ω25'00		morning max el	11162 Oct 03 16:08	25°Π22'36	26°02'36
morning max el	11161 Oct 22 03:21	15°Ω10'26	24°23'41		11162 Oct 08 00:02	0°Ω	
	11161 Nov 02 20:31	0°Π		asc. node	11162 Oct 25 19:31	27°Ω50'40	
asc. node	11161 Nov 07 22:40	8°Π38'21			11162 Oct 26 21:57	0°Π	
morning set	11161 Nov 16 07:38	25°Π20'43		morning set	11162 Oct 31 18:40	10°Π02'08	
	11161 Nov 18 11:23	0°♄					
superior conj	11161 Nov 23 03:46	10°♄15'13	1°39'26	superior conj	11162 Nov 07 14:27	25°Π01'25	1°35'51
minimum elong	11161 Nov 23 03:38	10°♄14'30	1°40'01	minimum elong	11162 Nov 07 13:18	24°Π55'01	1°36'17
max. Earth dist.	11161 Nov 25 07:11	14°♄54'22	1.32600 AU	max. Earth dist.	11162 Nov 08 13:08	27°Π07'04	1.31757 AU
evening rise	11161 Nov 30 13:23	25°♄56'33			11162 Nov 09 20:30	0°♄	
	11161 Dec 02 14:01	0°♄		evening rise	11162 Nov 14 14:12	10°♄11'15	
desc. node	11161 Dec 11 10:17	16°♄15'48			11162 Nov 24 20:47	0°♄	
	11161 Dec 20 03:26	0°♄		desc. node	11162 Nov 28 07:22	5°♄50'10	
evening max el	11162 Jan 03 02:47	17°♄01'24	27°30'31	evening max el	11162 Dec 16 11:03	29°♄39'32	27°22'03
retrograde	11162 Jan 16 20:05	24°♄23'16			11162 Dec 16 19:47	0°♄	
evening set	11162 Jan 23 18:51	21°♄54'56		retrograde	11162 Dec 30 08:24	6°♄55'34	
min. Earth dist.	11162 Jan 27 13:18	18°♄40'30	0.63520 AU	evening set	11163 Jan 06 08:02	4°♄41'00	
inferior conj	11162 Jan 30 05:52	15°♄57'29	-1°32'16	min. Earth dist.	11163 Jan 10 01:29	1°♄50'56	0.61496 AU
minimum elong	11162 Jan 30 08:51	15°♄49'57	1°30'32		11163 Jan 12 03:20	30°♄♄	
asc. node	11162 Feb 03 21:46	11°♄49'22		inferior conj	11163 Jan 13 02:41	29°♄07'14	-2°47'57
morning rise	11162 Feb 06 01:00	10°♄40'52		minimum elong	11163 Jan 13 08:24	28°♄54'25	2°45'11
direct	11162 Feb 08 10:20	10°♄13'07		morning rise	11163 Jan 20 11:28	24°♄09'03	
morning max el	11162 Feb 14 22:37	13°♄34'14	17°47'32	asc. node	11163 Jan 21 19:00	23°♄52'08	
	11162 Feb 26 08:40	0°♄		direct	11163 Jan 22 15:37	23°♄48'56	
morning set	11162 Mar 03 08:46	8°♄33'47		morning max el	11163 Jan 29 15:07	27°♄20'19	17°51'46
desc. node	11162 Mar 09 10:45	18°♄57'00			11163 Feb 01 00:12	0°♄	
				morning set	11163 Feb 14 07:12	21°♄47'41	
superior conj	11162 Mar 15 22:17	29°♄43'24	-0°47'33		11163 Feb 18 20:38	0°♄	
minimum elong	11162 Mar 15 17:16	29°♄22'52	0°46'47	desc. node	11163 Feb 24 07:27	9°♄34'59	
	11162 Mar 16 02:21	0°♄					
max. Earth dist.	11162 Mar 21 19:38	9°♄13'14	1.44645 AU	superior conj	11163 Feb 25 02:47	10°♄58'12	-0°06'11
evening rise	11162 Mar 31 08:32	24°♄06'42		minimum elong	11163 Feb 25 02:14	10°♄55'52	0°05'50
	11162 Apr 04 05:09	0°♄		behind sun begin	11163 Feb 24 18:18	10°♄21'45	
	11162 Apr 25 05:51	0°♄		behind sun end	11163 Feb 25 10:10	11°♄29'55	
evening max el	11162 Apr 29 03:12	4°♄23'22	20°37'44	max. Earth dist.	11163 Mar 04 10:27	23°♄13'40	1.43143 AU
asc. node	11162 May 02 19:22	7°♄31'34			11163 Mar 08 15:21	0°♄	
retrograde	11162 May 07 07:12	9°♄08'21		evening rise	11163 Mar 11 02:33	3°♄53'30	
evening set	11162 May 11 09:25	7°♄32'48			11163 Mar 28 14:30	0°♄	
inferior conj	11162 May 16 16:06	1°♄24'51	3°11'13	evening max el	11163 Apr 11 23:04	18°♄08'15	21°51'03
minimum elong	11162 May 16 15:09	1°♄28'09	3°10'36	asc. node	11163 Apr 19 16:37	23°♄24'37	
min. Earth dist.	11162 May 17 06:45	0°♄34'23	0.68183 AU	retrograde	11163 Apr 21 05:16	23°♄35'54	
	11162 May 17 16:48	30°♄♄		evening set	11163 Apr 25 17:55	21°♄44'58	
morning rise	11162 May 21 20:39	25°♄06'55		inferior conj	11163 May 01 00:49	15°♄26'32	2°54'55
direct	11162 May 27 07:52	22°♄41'43		minimum elong	11163 Apr 30 23:06	15°♄32'31	2°54'12
desc. node	11162 Jun 05 11:39	27°♄29'28		min. Earth dist.	11163 May 01 02:25	15°♄20'55	0.68646 AU
morning max el	11162 Jun 07 08:33	29°♄17'32	24°00'16	morning rise	11163 May 06 04:06	9°♄13'23	
	11162 Jun 08 01:05	0°♄		direct	11163 May 11 02:05	7°♄06'35	
	11162 Jun 30 09:30	0°♄		morning max el	11163 May 20 19:41	12°♄51'04	22°30'36
morning set	11162 Jul 12 18:45	20°♄06'23		desc. node	11163 May 23 08:35	15°♄33'55	
					11163 Jun 03 13:05	0°♄	

	11163 Jun 23 06:56	0°☿		direct	11164 Apr 23 23:29	21°♊40'44	
morning set	11163 Jun 23 13:26	0°☿26'31		morning max el	11164 May 02 11:28	26°♊34'14	21°06'49
max. Earth dist.	11163 Jun 28 10:47	8°☿34'01	1.40670 AU		11164 May 05 15:06	0°♋	
				desc. node	11164 May 09 05:26	4°♋27'00	
superior conj	11163 Jul 06 06:17	22°☿12'05	-1°27'11		11164 May 27 00:44	0°♌	
minimum elong	11163 Jul 06 12:13	22°☿38'44	1°27'01	morning set	11164 Jun 02 06:11	9°♌37'08	
	11163 Jul 10 12:47	0°♍		max. Earth dist.	11164 Jun 09 14:42	21°♌22'37	1.42767 AU
evening rise	11163 Jul 16 09:18	10°♍58'19			11164 Jun 14 19:41	0°☿	
asc. node	11163 Jul 16 15:27	11°♍27'13					
	11163 Jul 27 03:56	0°♎		superior conj	11164 Jun 16 19:09	3°☿20'49	-1°54'57
evening max el	11163 Aug 01 09:18	6°♎37'32	18°21'49	minimum elong	11164 Jun 17 01:35	3°☿48'16	1°55'04
retrograde	11163 Aug 08 20:45	10°♎23'21		evening rise	11164 Jun 28 09:49	23°☿45'06	
evening set	11163 Aug 10 23:56	10°♎05'46			11164 Jul 01 21:36	0°♏	
inferior conj	11163 Aug 18 12:26	5°♎29'29	0°14'17	asc. node	11164 Jul 02 12:22	1°♏05'29	
minimum elong	11163 Aug 18 12:56	5°♎28'28	0°13'47	evening max el	11164 Jul 14 20:51	19°♏34'41	18°05'15
transit middle	11163 Aug 18 12:56	5°♎28'28	0°13'47	retrograde	11164 Jul 21 13:37	23°♏00'11	
transit begin	11163 Aug 18 11:06	5°♎32'13		evening set	11164 Jul 24 00:43	22°♏32'32	
transit end	11163 Aug 18 14:46	5°♎24'42		inferior conj	11164 Jul 30 19:23	17°♏35'52	1°32'38
desc. node	11163 Aug 19 07:10	4°♎50'56		minimum elong	11164 Jul 30 21:51	17°♏30'00	1°31'20
min. Earth dist.	11163 Aug 21 20:42	2°♎46'20	0.58393 AU	min. Earth dist.	11164 Aug 03 00:28	14°♏34'15	0.60649 AU
morning rise	11163 Aug 25 22:24	0°♎03'00		desc. node	11164 Aug 05 04:29	12°♏45'05	
	11163 Aug 26 00:40	30°♎♏		morning rise	11164 Aug 06 16:11	11°♏41'57	
direct	11163 Sep 01 02:27	28°♏22'41		direct	11164 Aug 13 06:13	9°♏33'39	
	11163 Sep 07 08:59	0°♐		morning max el	11164 Aug 27 12:59	17°♏30'05	27°53'23
morning max el	11163 Sep 15 11:04	6°♐04'44	27°16'00		11164 Sep 06 22:40	0°♑	
	11163 Oct 03 05:55	0°♑			11164 Sep 24 22:24	0°♒	
asc. node	11163 Oct 12 16:19	17°♑24'54		asc. node	11164 Sep 28 13:04	7°♑14'06	
morning set	11163 Oct 16 03:15	24°♑33'34		morning set	11164 Sep 29 07:27	8°♑49'08	
	11163 Oct 18 15:56	0°♒		max. Earth dist.	11164 Oct 05 06:25	21°♑37'43	1.31545 AU
superior conj	11163 Oct 23 02:14	9°♒47'51	1°26'34	superior conj	11164 Oct 06 13:13	24°♑27'58	1°11'50
minimum elong	11163 Oct 23 00:21	9°♒37'19	1°26'45	minimum elong	11164 Oct 06 10:59	24°♑15'35	1°11'43
max. Earth dist.	11163 Oct 22 22:08	9°♒24'56	1.31400 AU		11164 Oct 09 01:04	0°♓	
evening rise	11163 Oct 29 20:36	24°♒39'46		evening rise	11164 Oct 13 06:26	9°♓15'12	
	11163 Nov 01 09:43	0°♈			11164 Oct 23 19:21	0°♈	
desc. node	11163 Nov 15 04:31	24°♈48'29		desc. node	11164 Nov 01 01:45	12°♈55'46	
	11163 Nov 18 17:49	0°♉		evening max el	11164 Nov 09 07:14	22°♈31'58	25°24'52
evening max el	11163 Nov 28 13:13	11°♉31'50	26°39'25	retrograde	11164 Nov 23 04:08	29°♈30'35	
retrograde	11163 Dec 12 11:53	18°♉39'34		evening set	11164 Nov 29 02:32	28°♈10'11	
evening set	11163 Dec 19 04:12	16°♉48'20		min. Earth dist.	11164 Dec 03 19:28	25°♈31'19	0.57345 AU
min. Earth dist.	11163 Dec 23 03:16	14°♉11'41	0.59368 AU	inferior conj	11164 Dec 06 16:44	23°♈34'00	-5°10'19
inferior conj	11163 Dec 26 07:26	11°♉42'59	-4°04'26	minimum elong	11164 Dec 07 00:11	23°♈21'21	5°08'14
minimum elong	11163 Dec 26 15:20	11°♉27'31	4°01'22	morning rise	11164 Dec 15 00:08	19°♈19'02	
morning rise	11164 Jan 03 05:13	7°♉05'41		direct	11164 Dec 17 06:48	19°♈03'29	
direct	11164 Jan 05 07:48	6°♉49'39		asc. node	11164 Dec 25 13:17	22°♈44'44	
asc. node	11164 Jan 08 16:11	7°♉32'14		morning max el	11164 Dec 26 05:52	23°♈23'17	18°59'55
morning max el	11164 Jan 13 02:52	10°♉40'44	18°15'14		11164 Dec 31 14:59	0°♊	
	11164 Jan 25 19:24	0°♋		morning set	11165 Jan 11 19:17	20°♊02'37	
morning set	11164 Jan 28 20:16	5°♋42'08			11165 Jan 16 20:25	0°♋	
superior conj	11164 Feb 07 06:28	23°♋17'59	0°30'01	superior conj	11165 Jan 20 04:45	6°♋29'05	0°58'40
minimum elong	11164 Feb 07 08:37	23°♋27'45	0°30'07	minimum elong	11165 Jan 20 07:46	6°♋43'29	0°58'48
desc. node	11164 Feb 11 04:11	0°♌15'58		max. Earth dist.	11165 Jan 27 03:32	19°♋20'37	1.39002 AU
	11164 Feb 11 00:33	0°♌		desc. node	11165 Jan 28 00:56	20°♋55'44	
max. Earth dist.	11164 Feb 14 20:40	6°♌37'40	1.41191 AU	evening rise	11165 Jan 30 23:39	26°♋03'37	
evening rise	11164 Feb 19 14:25	14°♌30'41			11165 Feb 02 07:28	0°♌	
	11164 Feb 29 11:36	0°♍			11165 Feb 22 02:34	0°♍	
	11164 Mar 22 18:41	0°♎		evening max el	11165 Mar 07 04:53	15°♍45'40	24°30'36
evening max el	11164 Mar 24 15:00	1°♎55'41	23°10'42	retrograde	11165 Mar 18 16:58	22°♍29'11	
retrograde	11164 Apr 04 00:56	8°♎04'38		asc. node	11165 Mar 23 11:14	20°♍46'29	
asc. node	11164 Apr 05 13:55	7°♎53'20		evening set	11165 Mar 24 05:01	20°♍11'07	
evening set	11164 Apr 09 00:59	5°♎59'17		min. Earth dist.	11165 Mar 28 19:00	14°♍57'53	0.68238 AU
inferior conj	11164 Apr 14 10:02	29°♍33'22	2°28'42	inferior conj	11165 Mar 29 17:51	13°♍41'29	1°52'55
minimum elong	11164 Apr 14 07:54	29°♍40'43	2°27'53	minimum elong	11165 Mar 29 15:44	13°♍48'33	1°52'08
min. Earth dist.	11164 Apr 13 23:16	0°♏10'36	0.68661 AU	morning rise	11165 Apr 04 02:35	7°♏42'10	
	11164 Apr 14 02:20	30°♏♍		direct	11165 Apr 07 22:39	6°♏18'00	
morning rise	11164 Apr 19 14:44	23°♏26'25		morning max el	11165 Apr 15 10:34	10°♏29'22	19°54'49

desc. node	11165 Apr 26 02:12	23° Υ 55'19		morning max el	11166 Mar 29 17:26	24° X 34'47	18°57'43
	11165 Apr 30 06:39	0° B			11166 Apr 03 09:24	0° Υ	
morning set	11165 May 12 06:32	18° B 07'55		greatest brilliancy	11166 Apr 12 07:16	12° Υ 49'46	-0.8m
	11165 May 19 21:41	0° II		desc. node	11166 Apr 12 22:54	13° Υ 49'15	
max. Earth dist.	11165 May 23 02:03	5° II 01'58	1.44405 AU	morning set	11166 Apr 21 12:12	27° Υ 00'59	
					11166 Apr 23 10:19	0° B	
superior conj	11165 May 28 07:53	13° II 27'24	-2°11'21	max. Earth dist.	11166 May 05 18:47	19° B 15'28	1.45409 AU
minimum elong	11165 May 28 10:51	13° II 39'26	2°11'54				
	11165 Jun 07 07:18	0° E		superior conj	11166 May 07 23:06	22° B 40'59	-2°09'57
evening rise	11165 Jun 10 15:41	5° E 41'31		minimum elong	11166 May 07 18:45	22° B 23'51	2°10'18
asc. node	11165 Jun 19 09:21	20° E 25'14			11166 May 12 14:11	0° II	
	11165 Jun 25 21:12	0° Ω		evening rise	11166 May 22 22:29	16° II 38'07	
evening max el	11165 Jun 28 10:45	2° Ω 54'07	18°07'41		11166 May 31 04:27	0° E	
retrograde	11165 Jul 04 19:46	6° Ω 14'26		asc. node	11166 Jun 06 06:24	9° E 19'03	
evening set	11165 Jul 07 14:50	5° Ω 34'05		evening max el	11166 Jun 11 23:45	16° E 26'46	18°28'24
inferior conj	11165 Jul 13 19:13	0° Ω 18'42	2°26'19	retrograde	11166 Jun 18 10:39	19° E 55'47	
minimum elong	11165 Jul 13 21:50	0° Ω 11'36	2°25'04	evening set	11166 Jun 21 13:43	19° E 00'59	
	11165 Jul 14 02:08	30° R E		inferior conj	11166 Jun 27 07:45	13° E 28'56	2°58'52
min. Earth dist.	11165 Jul 16 13:26	27° E 21'14	0.62884 AU	minimum elong	11166 Jun 27 09:36	13° E 23'27	2°57'56
morning rise	11165 Jul 20 03:01	24° E 07'35		min. Earth dist.	11166 Jun 29 11:49	10° E 54'11	0.64881 AU
desc. node	11165 Jul 23 01:43	22° E 24'14		morning rise	11166 Jul 03 04:25	7° E 09'19	
direct	11165 Jul 26 19:54	21° E 37'49		direct	11166 Jul 09 17:57	4° E 27'51	
morning max el	11165 Aug 09 20:32	29° E 40'03	27°52'14	desc. node	11166 Jul 09 22:54	4° E 28'00	
	11165 Aug 10 04:27	0° Ω		morning max el	11166 Jul 23 07:03	12° E 25'19	27°16'10
	11165 Aug 31 22:27	0° M			11166 Aug 06 08:31	0° Ω	
morning set	11165 Sep 13 05:10	22° M 43'45			11166 Aug 24 12:07	0° M	
asc. node	11165 Sep 15 09:48	27° M 13'21		morning set	11166 Aug 27 17:45	6° M 09'56	
	11165 Sep 16 17:39	0° E		max. Earth dist.	11166 Sep 01 05:55	15° M 10'49	1.33354 AU
max. Earth dist.	11165 Sep 18 10:17	3° E 36'01	1.32197 AU	asc. node	11166 Sep 02 06:32	17° M 17'46	
superior conj	11165 Sep 20 21:34	8° E 56'35	0°51'52	superior conj	11166 Sep 05 01:09	23° M 07'23	0°26'57
minimum elong	11165 Sep 20 19:29	8° E 45'17	0°51'32	minimum elong	11166 Sep 04 23:50	23° M 00'27	0°26'32
evening rise	11165 Sep 27 17:47	23° E 52'24			11166 Sep 08 06:19	0° E	
	11165 Sep 30 15:31	0° M		evening rise	11166 Sep 12 04:44	8° E 25'18	
desc. node	11165 Oct 18 23:00	29° M 52'32			11166 Sep 23 10:41	0° M	
	11165 Oct 19 01:39	0° X		evening max el	11166 Oct 03 06:24	12° M 55'38	22°08'20
evening max el	11165 Oct 21 18:30	2° X 49'43	23°48'48	desc. node	11166 Oct 05 20:19	15° M 12'54	
retrograde	11165 Nov 04 07:51	9° X 35'54		retrograde	11166 Oct 16 00:17	19° M 16'09	
evening set	11165 Nov 09 00:27	8° X 47'53		evening set	11166 Oct 19 05:31	18° M 53'06	
min. Earth dist.	11165 Nov 15 04:52	5° X 47'58	0.55704 AU	min. Earth dist.	11166 Oct 27 11:51	15° M 14'26	0.54738 AU
inferior conj	11165 Nov 17 05:30	4° X 35'12	-5°46'38	inferior conj	11166 Oct 28 02:09	14° M 54'22	-5°32'11
minimum elong	11165 Nov 17 07:33	4° X 32'08	5°45'58	minimum elong	11166 Oct 27 19:52	15° M 03'12	5°30'57
morning rise	11165 Nov 25 16:34	0° X 40'04		morning rise	11166 Nov 05 11:39	11° M 07'22	
direct	11165 Nov 28 10:15	0° X 21'17		direct	11166 Nov 08 21:51	10° M 41'20	
morning max el	11165 Dec 08 20:34	5° X 18'17	20°07'26	morning max el	11166 Nov 20 21:32	16° M 21'54	21°36'54
asc. node	11165 Dec 12 10:19	9° X 15'38		asc. node	11166 Nov 29 07:15	26° M 48'40	
	11165 Dec 24 17:33	0° E			11166 Dec 01 07:09	0° X	
morning set	11165 Dec 27 00:52	4° E 39'16		morning set	11166 Dec 11 10:28	19° X 24'39	
					11166 Dec 16 10:43	0° E	
superior conj	11166 Jan 03 16:57	20° E 18'43	1°19'22				
minimum elong	11166 Jan 03 19:37	20° E 32'05	1°19'42	superior conj	11166 Dec 18 15:07	4° E 35'27	1°32'31
	11166 Jan 08 15:36	0° \approx		minimum elong	11166 Dec 18 16:49	4° E 44'22	1°33'03
max. Earth dist.	11166 Jan 09 10:26	1° \approx 29'27	1.36818 AU	max. Earth dist.	11166 Dec 22 21:54	13° E 22'13	1.34863 AU
evening rise	11166 Jan 13 04:52	8° \approx 27'47		evening rise	11166 Dec 27 02:43	21° E 34'48	
desc. node	11166 Jan 14 21:45	11° \approx 30'46			11166 Dec 31 16:15	0° \approx	
	11166 Jan 26 01:38	0° X		desc. node	11167 Jan 01 18:38	1° \approx 56'59	
evening max el	11166 Feb 17 18:13	29° X 35'36	25°43'46		11167 Jan 19 21:39	0° X	
	11166 Feb 18 04:18	0° Υ		evening max el	11167 Jan 31 07:39	13° X 19'59	26°42'59
retrograde	11166 Mar 02 04:24	6° Υ 43'41		retrograde	11167 Feb 13 10:34	20° X 41'29	
evening set	11166 Mar 08 04:26	4° Υ 15'47		evening set	11167 Feb 19 21:27	18° X 08'18	
asc. node	11166 Mar 10 08:33	2° Υ 08'51		min. Earth dist.	11167 Feb 23 22:38	14° X 04'21	0.66161 AU
	11166 Mar 12 04:18	30° R X		asc. node	11167 Feb 25 05:49	12° X 32'39	
min. Earth dist.	11166 Mar 12 11:28	29° X 37'41	0.67397 AU	inferior conj	11167 Feb 25 21:27	11° X 46'17	0°12'43
inferior conj	11166 Mar 13 22:20	27° X 47'06	1°07'35	minimum elong	11167 Feb 25 21:06	11° X 47'20	0°12'51
minimum elong	11166 Mar 13 20:47	27° X 52'02	1°07'06	transit middle	11167 Feb 25 21:06	11° X 47'20	0°12'51
morning rise	11166 Mar 19 13:41	21° X 56'55		transit begin	11167 Feb 25 19:20	11° X 52'31	
direct	11166 Mar 22 22:02	20° X 52'46		transit end	11167 Feb 25 22:51	11° X 42'09	

morning rise	11167 Mar 03 21:52	6° H 07'05		min. Earth dist.	11168 Feb 07 02:21	28° \approx 09'21	0.64569 AU
direct	11167 Mar 06 19:51	5° H 20'00		inferior conj	11168 Feb 09 12:43	25° \approx 32'26	-0°51'29
morning max el	11167 Mar 13 06:36	8° H 45'26	18°17'01	minimum elong	11168 Feb 09 14:17	25° \approx 28'12	0°50'24
	11167 Mar 28 06:59	0° Y		asc. node	11168 Feb 12 03:05	22° \approx 52'33	
desc. node	11167 Mar 30 19:35	4° Y 02'13		morning rise	11168 Feb 16 00:28	20° \approx 06'34	
morning set	11167 Apr 01 18:20	7° Y 09'23		direct	11168 Feb 18 13:47	19° \approx 32'53	
	11167 Apr 16 04:21	0° B		morning max el	11168 Feb 24 23:26	22° \approx 52'55	17°53'14
					11168 Mar 01 15:48	0° H	
superior conj	11167 Apr 17 05:38	1° B 38'57	-1°48'21	morning set	11168 Mar 13 05:29	18° H 43'03	
minimum elong	11167 Apr 16 20:20	1° B 02'34	1°47'50	desc. node	11168 Mar 16 16:16	24° H 28'14	
max. Earth dist.	11167 Apr 18 14:02	3° B 45'40	1.45691 AU		11168 Mar 20 00:35	0° Y	
evening rise	11167 May 03 05:38	26° B 38'00					
	11167 May 05 09:18	0° II		superior conj	11168 Mar 26 21:35	11° Y 08'44	-1°11'42
greatest brilliancy	11167 May 14 03:04	13° II 33'50	-0.8m	minimum elong	11168 Mar 26 13:55	10° Y 38'01	1°10'48
asc. node	11167 May 24 03:31	27° II 38'33		max. Earth dist.	11168 Mar 31 09:27	18° Y 16'47	1.45232 AU
	11167 May 26 06:39	0° E			11168 Apr 07 21:49	0° B	
evening max el	11167 May 26 09:25	0° E 06'57	19°06'32	evening rise	11168 Apr 11 20:10	6° B 03'09	
retrograde	11167 Jun 02 06:42	3° E 57'15		greatest brilliancy	11168 Apr 26 18:17	28° B 30'51	-0.6m
evening set	11167 Jun 05 18:08	2° E 47'00			11168 Apr 27 18:56	0° II	
	11167 Jun 08 18:48	30° R II		evening max el	11168 May 08 14:03	13° II 50'20	20°00'34
inferior conj	11167 Jun 11 05:27	26° II 59'55	3°14'17	asc. node	11168 May 10 00:42	15° II 12'19	
minimum elong	11167 Jun 11 06:09	26° II 57'38	3°13'36	retrograde	11168 May 16 05:03	18° II 12'40	
min. Earth dist.	11167 Jun 12 18:36	25° II 00'37	0.66513 AU	evening set	11168 May 20 01:38	16° II 46'25	
morning rise	11167 Jun 16 17:36	20° II 38'08		inferior conj	11168 May 25 09:16	10° II 45'50	3°15'46
direct	11167 Jun 22 23:14	17° II 55'36		minimum elong	11168 May 25 08:52	10° II 47'11	3°15'10
desc. node	11167 Jun 26 20:00	18° II 47'46		min. Earth dist.	11168 May 26 07:57	9° II 29'11	0.67709 AU
morning max el	11167 Jul 05 17:52	25° II 33'32	26°12'37	morning rise	11168 May 30 15:47	4° II 25'50	
	11167 Jul 09 19:12	0° E		direct	11168 Jun 05 10:21	1° II 51'57	
	11167 Jul 30 20:54	0° O		desc. node	11168 Jun 12 17:02	4° II 55'29	
morning set	11167 Aug 10 17:48	18° O 59'06		morning max el	11168 Jun 17 03:40	8° II 54'00	24°51'10
max. Earth dist.	11167 Aug 14 14:56	26° O 22'04	1.35003 AU		11168 Jul 03 18:02	0° E	
	11167 Aug 16 11:20	0° P			11168 Jul 22 11:23	0° O	
				morning set	11168 Jul 23 00:58	0° O 59'55	
superior conj	11167 Aug 19 21:31	6° P 54'02	-0°02'21	max. Earth dist.	11168 Jul 26 14:55	7° O 27'07	1.37065 AU
minimum elong	11167 Aug 19 21:40	6° P 54'50	0°02'39				
behind sun begin	11167 Aug 19 15:45	6° P 24'35		superior conj	11168 Aug 02 07:38	20° O 09'02	-0°34'52
behind sun end	11167 Aug 20 03:35	7° P 25'09		minimum elong	11168 Aug 02 09:54	20° O 20'09	0°34'54
asc. node	11167 Aug 20 03:18	7° P 23'38		asc. node	11168 Aug 06 00:06	27° O 27'09	
evening rise	11167 Aug 27 13:18	22° P 48'37			11168 Aug 07 06:33	0° P	
	11167 Aug 31 01:59	0° A		evening rise	11168 Aug 10 17:09	6° P 56'06	
evening max el	11167 Sep 15 04:19	23° A 27'18	20°39'02		11168 Aug 23 16:25	0° A	
desc. node	11167 Sep 22 17:40	28° A 27'38		evening max el	11168 Aug 27 16:12	4° A 44'20	19°29'04
retrograde	11167 Sep 26 11:50	29° A 04'08		retrograde	11168 Sep 06 06:52	9° A 31'07	
evening set	11167 Sep 28 15:54	28° A 52'38		evening set	11168 Sep 08 03:10	9° A 21'19	
inferior conj	11167 Oct 07 18:23	24° A 56'59	-4°20'41	desc. node	11168 Sep 08 15:01	9° A 15'30	
minimum elong	11167 Oct 07 08:25	25° A 11'18	4°17'39	inferior conj	11168 Sep 16 20:35	5° A 15'28	-2°33'03
min. Earth dist.	11167 Oct 08 19:56	24° A 20'11	0.54678 AU	minimum elong	11168 Sep 16 13:49	5° A 26'20	2°30'29
morning rise	11167 Oct 16 00:41	20° A 58'09		min. Earth dist.	11168 Sep 19 06:56	3° A 42'13	0.55557 AU
direct	11167 Oct 20 06:12	20° A 19'42		morning rise	11168 Sep 24 22:08	0° A 46'57	
morning max el	11167 Nov 02 11:49	26° A 43'49	23°21'37		11168 Sep 27 20:05	30° R P	
	11167 Nov 05 15:28	0° M		direct	11168 Sep 29 23:35	29° P 49'27	
asc. node	11167 Nov 16 04:09	15° M 09'21			11168 Oct 02 02:57	0° A	
	11167 Nov 23 21:58	0° J		morning max el	11168 Oct 13 22:47	6° A 50'01	25°07'48
morning set	11167 Nov 25 21:59	4° J 12'21			11168 Oct 30 19:06	0° M	
				asc. node	11168 Nov 02 01:00	4° M 05'56	
superior conj	11167 Dec 02 20:02	19° J 09'25	1°38'45	morning set	11168 Nov 09 09:42	18° M 57'51	
minimum elong	11167 Dec 02 20:34	19° J 12'18	1°39'22		11168 Nov 14 10:57	0° J	
max. Earth dist.	11167 Dec 05 17:04	25° J 17'39	1.33295 AU				
	11167 Dec 07 23:17	0° B		superior conj	11168 Nov 16 05:16	3° J 53'25	1°38'37
evening rise	11167 Dec 10 13:32	5° B 14'48		minimum elong	11168 Nov 16 04:41	3° J 50'09	1°39'10
desc. node	11167 Dec 19 15:36	22° B 08'39		max. Earth dist.	11168 Nov 17 19:59	7° J 25'48	1.32187 AU
	11167 Dec 24 08:42	0° \approx		evening rise	11168 Nov 23 10:07	19° J 19'42	
evening max el	11168 Jan 13 20:43	26° \approx 48'57	27°21'01		11168 Nov 28 19:35	0° B	
	11168 Jan 17 12:47	0° H		desc. node	11168 Dec 05 12:41	11° B 59'26	
retrograde	11168 Jan 27 10:33	4° H 13'08			11168 Dec 17 14:47	0° \approx	
evening set	11168 Feb 03 05:53	1° H 41'04		evening max el	11168 Dec 26 07:44	9° \approx 50'28	27°31'00
	11168 Feb 05 05:50	30° R \approx		retrograde	11169 Jan 09 03:15	17° \approx 09'43	

evening set	11169 Jan 16 03:02	14° \approx 46'29		min. Earth dist.	11170 Jan 02 04:20	24° \approx 33'48	0.60603 AU
min. Earth dist.	11169 Jan 19 20:44	11° \approx 43'04	0.62687 AU	inferior conj	11170 Jan 05 07:40	21° \approx 54'43	-3°20'45
inferior conj	11169 Jan 22 17:15	8° \approx 58'19	-2°03'46	minimum elong	11170 Jan 05 14:28	21° \approx 40'19	3°17'44
minimum elong	11169 Jan 22 21:22	8° \approx 48'23	2°01'34	morning rise	11170 Jan 12 22:11	17° \approx 04'58	
asc. node	11169 Jan 29 00:18	4° \approx 06'33		direct	11170 Jan 15 01:18	16° \approx 34'54	
morning rise	11169 Jan 29 18:06	3° \approx 48'47		asc. node	11170 Jan 15 21:29	16° \approx 34'49	
direct	11169 Feb 01 00:52	3° \approx 24'42		morning max el	11170 Jan 22 07:48	20° \approx 32'09	17°59'15
morning max el	11169 Feb 07 16:56	6° \approx 49'10	17°46'58		11170 Jan 29 11:18	0° \approx	
	11169 Feb 22 21:14	0° \approx		morning set	11170 Feb 06 22:14	14° \approx 59'36	
morning set	11169 Feb 23 16:56	1° \approx 26'28			11170 Feb 15 03:52	0° \approx	
desc. node	11169 Mar 03 12:58	15° \approx 03'01					
				superior conj	11170 Feb 17 02:28	3° \approx 26'10	0°10'02
superior conj	11169 Mar 07 11:38	21° \approx 42'27	-0°29'37	minimum elong	11170 Feb 17 03:19	3° \approx 29'56	0°10'15
minimum elong	11169 Mar 07 08:40	21° \approx 30'04	0°29'01	behind sun begin	11170 Feb 16 21:08	3° \approx 02'42	
	11169 Mar 12 12:42	0° \approx		behind sun end	11170 Feb 17 09:31	3° \approx 57'06	
max. Earth dist.	11169 Mar 14 02:58	2° \approx 34'22	1.44083 AU	desc. node	11170 Feb 18 09:41	5° \approx 42'40	
evening rise	11169 Mar 22 08:40	15° \approx 32'11		max. Earth dist.	11170 Feb 24 16:23	16° \approx 22'27	1.42363 AU
	11169 Mar 31 22:02	0° \approx		evening rise	11170 Mar 02 09:23	25° \approx 38'29	
evening max el	11169 Apr 21 13:05	27° \approx 35'02	21°07'52		11170 Mar 05 03:46	0° \approx	
	11169 Apr 24 04:47	0° \approx			11170 Mar 25 18:43	0° \approx	
asc. node	11169 Apr 26 21:56	1° \approx 46'44		evening max el	11170 Apr 04 07:03	11° \approx 20'55	22°24'28
retrograde	11169 Apr 30 03:39	2° \approx 37'17		asc. node	11170 Apr 13 19:11	17° \approx 06'04	
evening set	11169 May 04 10:16	0° \approx 55'04		retrograde	11170 Apr 14 00:49	17° \approx 06'20	
	11169 May 05 10:50	30° \approx 08'08		evening set	11170 Apr 18 18:22	15° \approx 08'51	
inferior conj	11169 May 09 16:48	24° \approx 42'34	3°05'33	inferior conj	11170 Apr 24 01:57	8° \approx 46'50	2°44'59
minimum elong	11169 May 09 15:29	24° \approx 47'09	3°04'53	minimum elong	11170 Apr 24 00:01	8° \approx 53'35	2°44'12
min. Earth dist.	11169 May 10 01:49	24° \approx 11'16	0.68443 AU	min. Earth dist.	11170 Apr 23 22:09	9° \approx 00'05	0.68709 AU
morning rise	11169 May 14 20:29	18° \approx 26'42		morning rise	11170 Apr 29 05:32	2° \approx 36'25	
direct	11169 May 20 02:15	16° \approx 08'43		direct	11170 May 03 21:50	0° \approx 38'36	
morning max el	11169 May 30 13:31	22° \approx 22'32	23°21'49	morning max el	11170 May 13 02:20	6° \approx 00'21	21°53'54
desc. node	11169 May 30 14:01	22° \approx 23'48		desc. node	11170 May 17 10:53	10° \approx 50'55	
	11169 Jun 06 05:05	0° \approx			11170 May 31 12:09	0° \approx	
	11169 Jun 27 01:32	0° \approx		morning set	11170 Jun 14 17:37	21° \approx 49'03	
morning set	11169 Jul 04 10:11	11° \approx 59'14			11170 Jun 19 18:16	0° \approx	
max. Earth dist.	11169 Jul 08 12:03	18° \approx 57'15	1.39359 AU	max. Earth dist.	11170 Jun 20 12:45	1° \approx 16'38	1.41604 AU
	11169 Jul 14 16:25	0° \approx					
				superior conj	11170 Jun 28 05:08	14° \approx 24'51	-1°39'55
superior conj	11169 Jul 16 03:38	2° \approx 42'30	-1°08'33	minimum elong	11170 Jun 28 11:37	14° \approx 53'23	1°39'50
minimum elong	11169 Jul 16 08:21	3° \approx 04'25	1°08'23		11170 Jul 06 20:25	0° \approx	
asc. node	11169 Jul 23 20:57	17° \approx 24'06		evening rise	11170 Jul 08 22:28	3° \approx 50'51	
evening rise	11169 Jul 25 13:25	20° \approx 39'44		asc. node	11170 Jul 10 17:51	7° \approx 10'47	
	11169 Jul 30 11:22	0° \approx		evening max el	11170 Jul 25 00:39	29° \approx 25'23	18°12'18
evening max el	11169 Aug 10 16:13	16° \approx 46'01	18°40'19		11170 Jul 25 15:12	0° \approx	
retrograde	11169 Aug 18 19:21	20° \approx 50'22		retrograde	11170 Aug 01 02:52	3° \approx 01'04	
evening set	11169 Aug 20 18:43	20° \approx 36'47		evening set	11170 Aug 03 09:16	2° \approx 39'38	
desc. node	11169 Aug 26 12:23	17° \approx 49'26			11170 Aug 08 01:35	30° \approx 08'08	
inferior conj	11169 Aug 28 18:17	16° \approx 11'59	-0°41'56	inferior conj	11170 Aug 10 13:48	27° \approx 54'13	0°50'39
minimum elong	11169 Aug 28 16:35	16° \approx 15'10	0°41'29	minimum elong	11170 Aug 10 15:24	27° \approx 50'42	0°49'40
min. Earth dist.	11169 Aug 31 22:44	13° \approx 49'59	0.57207 AU	desc. node	11170 Aug 13 09:42	25° \approx 25'52	
morning rise	11169 Sep 05 11:03	11° \approx 05'54		min. Earth dist.	11170 Aug 13 21:48	25° \approx 00'28	0.59335 AU
direct	11169 Sep 11 06:29	9° \approx 42'42		morning rise	11170 Aug 17 18:15	22° \approx 14'32	
morning max el	11169 Sep 25 13:39	17° \approx 11'19	26°37'50	direct	11170 Aug 24 03:08	20° \approx 22'09	
	11169 Oct 06 03:40	0° \approx		morning max el	11170 Sep 07 11:50	28° \approx 11'19	27°36'44
asc. node	11169 Oct 19 21:49	23° \approx 28'17			11170 Sep 09 06:19	0° \approx	
	11169 Oct 23 03:03	0° \approx			11170 Sep 29 22:18	0° \approx	
morning set	11169 Oct 24 19:55	3° \approx 35'24		asc. node	11170 Oct 06 18:37	13° \approx 29'20	
				morning set	11170 Oct 09 02:51	18° \approx 20'21	
superior conj	11169 Oct 31 16:38	18° \approx 40'00	1°32'35		11170 Oct 14 15:36	0° \approx	
minimum elong	11169 Oct 31 15:07	18° \approx 31'37	1°32'56	max. Earth dist.	11170 Oct 15 13:05	1° \approx 59'17	1.31401 AU
max. Earth dist.	11169 Nov 01 03:52	19° \approx 42'30	1.31551 AU				
	11169 Nov 05 20:13	0° \approx		superior conj	11170 Oct 16 04:16	3° \approx 23'43	1°20'58
evening rise	11169 Nov 07 13:35	3° \approx 40'55		minimum elong	11170 Oct 16 02:10	3° \approx 12'04	1°21'01
	11169 Nov 21 13:58	0° \approx		evening rise	11170 Oct 22 21:39	18° \approx 12'17	
desc. node	11169 Nov 22 09:48	1° \approx 19'57			11170 Oct 28 15:28	0° \approx	
evening max el	11169 Dec 08 13:50	22° \approx 10'26	27°08'03	desc. node	11170 Nov 09 06:59	19° \approx 28'18	
retrograde	11169 Dec 22 11:35	29° \approx 22'07			11170 Nov 16 23:53	0° \approx	
evening set	11169 Dec 29 09:27	27° \approx 16'27		evening max el	11170 Nov 20 12:24	3° \approx 39'10	26°11'04























































































































retrograde	11170 Dec 04 10:30	10° Z 43'28		evening max el	11171 Nov 02 02:54	14° Z 18'31	24°45'46
evening set	11170 Dec 10 20:53	9° Z 04'18		retrograde	11171 Nov 15 22:06	21° Z 13'38	
min. Earth dist.	11170 Dec 15 01:26	6° Z 29'12	0.58480 AU	evening set	11171 Nov 21 08:55	20° Z 07'17	
inferior conj	11170 Dec 18 04:23	4° Z 11'41	-4°34'40	min. Earth dist.	11171 Nov 26 14:31	17° Z 21'37	0.56572 AU
minimum elong	11170 Dec 18 12:34	3° Z 56'37	4°31'51	inferior conj	11171 Nov 29 04:52	15° Z 41'44	-5°30'45
	11170 Dec 25 08:36	30° R Z		minimum elong	11171 Nov 29 10:40	15° Z 32'24	5°29'21
morning rise	11170 Dec 26 06:55	29° Z 44'18		morning rise	11171 Dec 07 14:38	11° Z 36'03	
direct	11170 Dec 28 10:30	29° Z 28'54		direct	11171 Dec 10 00:50	11° Z 19'46	
	11170 Dec 31 09:52	0° Z		morning max el	11171 Dec 19 14:36	15° Z 54'47	19°25'53
asc. node	11171 Jan 02 18:38	1° Z 10'09		asc. node	11171 Dec 20 15:41	16° Z 58'08	
morning max el	11171 Jan 05 16:20	3° Z 30'41	18°31'37		11171 Dec 29 15:59	0° Z	
morning set	11171 Jan 21 15:59	29° Z 06'12		morning set	11172 Jan 05 18:11	13° Z 34'47	
	11171 Jan 22 03:09	0° \approx					
superior conj	11171 Jan 30 14:41	16° \approx 09'37	0°43'08	superior conj	11172 Jan 13 19:29	29° Z 39'11	1°08'23
minimum elong	11171 Jan 30 17:23	16° \approx 22'10	0°43'13	minimum elong	11172 Jan 13 22:27	29° Z 53'42	1°08'36
desc. node	11171 Feb 05 06:24	26° \approx 23'26			11172 Jan 13 23:45	0° \approx	
max. Earth dist.	11171 Feb 07 00:51	29° \approx 28'44	1.40270 AU	max. Earth dist.	11172 Jan 20 06:46	11° \approx 54'06	1.38052 AU
	11171 Feb 07 08:05	0° X		desc. node	11172 Jan 23 03:12	17° \approx 02'04	
evening rise	11171 Feb 11 06:11	6° X 38'51		evening rise	11172 Jan 24 00:21	18° \approx 35'15	
	11171 Feb 26 05:54	0° Y			11172 Jan 30 18:30	0° X	
evening max el	11171 Mar 17 21:40	25° Y 08'36	23°45'02	evening max el	11172 Feb 28 11:07	8° Y 59'09	25°02'57
	11171 Mar 23 20:45	0° Z		retrograde	11172 Mar 11 09:31	15° Y 55'08	
retrograde	11171 Mar 28 19:12	1° Z 33'57		evening set	11172 Mar 17 02:36	13° Y 32'34	
asc. node	11171 Mar 31 16:29	0° Z 54'51		asc. node	11172 Mar 17 13:45	13° Y 07'58	
	11171 Apr 02 05:26	30° R Y		min. Earth dist.	11172 Mar 21 13:30	8° Y 34'05	0.67929 AU
evening set	11171 Apr 03 00:19	29° Y 22'42		inferior conj	11172 Mar 22 17:26	7° Y 02'25	1°34'52
inferior conj	11171 Apr 08 10:46	22° Y 54'25	2°14'40	minimum elong	11172 Mar 22 15:29	7° Y 08'49	1°34'11
minimum elong	11171 Apr 08 08:36	23° Y 01'52	2°13'51	morning rise	11172 Mar 28 04:40	1° Y 06'33	
min. Earth dist.	11171 Apr 07 18:45	23° Y 49'10	0.68530 AU		11172 Mar 30 13:40	30° R X	
morning rise	11171 Apr 13 16:53	16° Y 50'37		direct	11172 Mar 31 19:31	29° X 51'14	
direct	11171 Apr 17 20:02	15° Y 14'24			11172 Apr 02 02:02	0° Y	
morning max el	11171 Apr 25 21:09	19° Y 48'54	20°34'30	morning max el	11172 Apr 07 23:36	3° Y 48'54	19°28'28
desc. node	11171 May 04 07:40	0° Z 00'06		desc. node	11172 Apr 20 04:24	19° Y 40'23	
	11171 May 04 07:38	0° Z		greatest brilliancy	11172 Apr 20 16:30	20° Y 24'55	-0.7m
	11171 May 24 15:52	0° II			11172 Apr 27 01:43	0° Z	
morning set	11171 May 25 01:21	0° II 36'44		morning set	11172 May 03 00:53	9° Z 07'56	
max. Earth dist.	11171 Jun 02 19:39	14° II 27'07	1.43528 AU	max. Earth dist.	11172 May 15 08:55	28° Z 20'27	1.44920 AU
					11172 May 16 10:06	0° II	
superior conj	11171 Jun 09 07:47	25° II 06'27	-2°03'42	superior conj	11172 May 19 10:30	4° II 47'50	-2°13'14
minimum elong	11171 Jun 09 13:21	25° II 29'39	2°04'02	minimum elong	11172 May 19 10:35	4° II 48'09	2°13'48
	11171 Jun 12 05:42	0° Z		evening rise	11172 Jun 02 12:01	27° II 48'12	
evening rise	11171 Jun 21 15:38	16° Z 17'20			11172 Jun 03 19:34	0° Z	
asc. node	11171 Jun 27 14:48	26° Z 41'46		asc. node	11172 Jun 13 11:48	15° Z 51'09	
	11171 Jun 29 13:45	0° Z		evening max el	11172 Jun 21 03:26	25° Z 58'25	18°14'23
evening max el	11171 Jul 08 13:33	12° Z 32'33	18°04'00	retrograde	11172 Jun 27 12:08	29° Z 20'36	
retrograde	11171 Jul 15 01:57	15° Z 54'20		evening set	11172 Jun 30 10:36	28° Z 34'20	
evening set	11171 Jul 17 16:19	15° Z 21'43		inferior conj	11172 Jul 06 10:08	23° Z 11'57	2°42'26
inferior conj	11171 Jul 24 04:27	10° Z 17'00	1°58'12	minimum elong	11172 Jul 06 12:30	23° Z 05'16	2°41'19
minimum elong	11171 Jul 24 07:09	10° Z 10'12	1°56'53	min. Earth dist.	11172 Jul 08 22:41	20° Z 21'57	0.63777 AU
min. Earth dist.	11171 Jul 27 05:38	7° Z 14'13	0.61614 AU	morning rise	11172 Jul 12 12:56	16° Z 56'22	
morning rise	11171 Jul 30 19:32	4° Z 14'12		desc. node	11172 Jul 17 04:09	14° Z 34'04	
desc. node	11171 Jul 31 06:57	3° Z 55'08		direct	11172 Jul 19 05:14	14° Z 19'57	
direct	11171 Aug 06 11:32	1° Z 55'29		morning max el	11172 Aug 02 01:31	22° Z 21'56	27°40'39
morning max el	11171 Aug 20 16:36	9° Z 56'34	27°57'30		11172 Aug 08 18:35	0° Z	
	11171 Sep 05 06:52	0° Z			11172 Aug 28 12:24	0° Z	
	11171 Sep 22 03:34	0° Z		morning set	11172 Sep 05 22:45	15° Z 50'45	
morning set	11171 Sep 23 04:36	2° Z 07'43		asc. node	11172 Sep 09 12:06	23° Z 05'04	
asc. node	11171 Sep 23 15:23	3° Z 03'19		max. Earth dist.	11172 Sep 10 20:18	25° Z 53'33	1.32621 AU
max. Earth dist.	11171 Sep 28 19:50	14° Z 06'11	1.31752 AU		11172 Sep 12 18:41	0° Z	
superior conj	11171 Sep 30 14:22	17° Z 59'28	1°03'59	superior conj	11172 Sep 13 20:57	2° Z 21'08	0°41'53
minimum elong	11171 Sep 30 12:08	17° Z 47'09	1°03'46	minimum elong	11172 Sep 13 19:07	2° Z 11'16	0°41'29
	11171 Oct 06 01:11	0° Z		evening rise	11172 Sep 20 19:43	17° Z 24'21	
evening rise	11171 Oct 07 08:20	2° Z 48'41			11172 Sep 26 23:24	0° Z	
	11171 Oct 21 19:01	0° Z		desc. node	11172 Oct 13 01:31	23° Z 57'39	
desc. node	11171 Oct 27 04:13	7° Z 38'25					

evening max el	11172 Oct 13 13:26	24° \mathbb{M} 27'03	23°05'42	minimum elong	11173 Aug 28 21:03	16° \mathbb{M} 18'46	0°14'39
	11172 Oct 21 13:29	0° \mathbb{A}		behind sun begin	11173 Aug 28 18:40	16° \mathbb{M} 06'22	
retrograde	11172 Oct 26 20:29	1° \mathbb{A} 04'04		behind sun end	11173 Aug 28 23:25	16° \mathbb{M} 31'11	
evening set	11172 Oct 30 21:43	0° \mathbb{A} 28'24			11173 Sep 04 08:16	0° \mathbb{A}	
	11172 Nov 01 08:09	30° \mathbb{R} \mathbb{M}		evening rise	11173 Sep 05 05:57	1° \mathbb{A} 54'15	
min. Earth dist.	11172 Nov 06 22:44	27° \mathbb{M} 13'54	0.55189 AU		11173 Sep 21 02:31	0° \mathbb{M}	
inferior conj	11172 Nov 08 09:51	26° \mathbb{M} 23'11	-5°47'42	evening max el	11173 Sep 25 04:47	4° \mathbb{M} 40'18	21°28'20
minimum elong	11172 Nov 08 08:19	26° \mathbb{M} 25'25	5°47'08	desc. node	11173 Sep 29 22:50	8° \mathbb{M} 28'21	
morning rise	11172 Nov 16 20:35	22° \mathbb{M} 33'06		retrograde	11173 Oct 07 09:07	10° \mathbb{M} 43'28	
direct	11172 Nov 19 20:48	22° \mathbb{M} 11'40		evening set	11173 Oct 10 01:55	10° \mathbb{M} 26'46	
morning max el	11172 Nov 30 23:23	27° \mathbb{M} 27'22	20°43'01	inferior conj	11173 Oct 19 02:51	6° \mathbb{M} 31'05	-5°08'11
	11172 Dec 03 09:46	0° \mathbb{A}		minimum elong	11173 Oct 18 18:03	6° \mathbb{M} 43'24	5°06'05
asc. node	11172 Dec 06 12:41	3° \mathbb{A} 57'05		min. Earth dist.	11173 Oct 19 05:34	6° \mathbb{M} 27'17	0.54601 AU
morning set	11172 Dec 20 01:46	28° \mathbb{A} 15'37		morning rise	11173 Oct 27 11:06	2° \mathbb{M} 41'58	
	11172 Dec 20 21:56	0° \mathbb{B}		direct	11173 Oct 31 05:42	2° \mathbb{M} 11'10	
				morning max el	11173 Nov 12 18:57	8° \mathbb{M} 10'07	22°20'13
superior conj	11172 Dec 27 12:20	13° \mathbb{B} 41'03	1°25'50	asc. node	11173 Nov 23 09:38	21° \mathbb{M} 51'47	
minimum elong	11172 Dec 27 14:38	13° \mathbb{B} 52'51	1°26'15		11173 Nov 28 00:46	0° \mathbb{A}	
max. Earth dist.	11173 Jan 01 15:02	23° \mathbb{B} 52'59	1.35949 AU	morning set	11173 Dec 04 12:25	13° \mathbb{A} 02'26	
	11173 Jan 04 20:09	0° \mathbb{A}					
evening rise	11173 Jan 05 13:07	1° \mathbb{A} 18'48		superior conj	11173 Dec 11 13:42	28° \mathbb{A} 05'33	1°35'57
desc. node	11173 Jan 09 00:04	7° \mathbb{A} 33'48		minimum elong	11173 Dec 11 14:55	28° \mathbb{A} 12'01	1°36'33
	11173 Jan 22 20:54	0° \mathbb{H}			11173 Dec 12 11:22	0° \mathbb{B}	
evening max el	11173 Feb 10 00:43	22° \mathbb{H} 48'15	26°11'08	max. Earth dist.	11173 Dec 15 05:55	5° \mathbb{B} 46'06	1.34149 AU
	11173 Feb 21 20:40	0° \mathbb{Y}		evening rise	11173 Dec 19 16:55	14° \mathbb{B} 40'27	
retrograde	11173 Feb 22 18:48	0° \mathbb{Y} 02'59		desc. node	11173 Dec 26 21:00	27° \mathbb{B} 54'13	
	11173 Feb 23 16:31	30° \mathbb{R} \mathbb{H}			11173 Dec 28 02:00	0° \mathbb{A}	
evening set	11173 Feb 28 23:31	27° \mathbb{H} 32'33			11174 Jan 17 14:45	0° \mathbb{H}	
asc. node	11173 Mar 04 11:02	23° \mathbb{H} 59'50		evening max el	11174 Jan 23 14:17	6° \mathbb{H} 27'26	27°02'10
min. Earth dist.	11173 Mar 05 04:04	23° \mathbb{H} 08'51	0.66920 AU	retrograde	11174 Feb 05 22:10	13° \mathbb{H} 50'16	
inferior conj	11173 Mar 06 19:56	21° \mathbb{H} 05'58	0°45'31	evening set	11174 Feb 12 13:09	11° \mathbb{H} 16'47	
minimum elong	11173 Mar 06 18:48	21° \mathbb{H} 09'28	0°45'15	min. Earth dist.	11174 Feb 16 12:15	7° \mathbb{H} 26'57	0.65529 AU
morning rise	11173 Mar 12 14:49	15° \mathbb{H} 19'55		inferior conj	11174 Feb 18 16:01	4° \mathbb{H} 59'56	-0°13'23
direct	11173 Mar 15 18:38	14° \mathbb{H} 23'17		minimum elong	11174 Feb 18 16:23	4° \mathbb{H} 58'52	0°12'53
morning max el	11173 Mar 22 09:19	17° \mathbb{H} 56'45	18°38'17	transit middle	11174 Feb 18 16:23	4° \mathbb{H} 58'52	0°12'53
	11173 Mar 31 16:44	0° \mathbb{Y}		transit begin	11174 Feb 18 14:37	5° \mathbb{H} 03'56	
desc. node	11173 Apr 07 01:07	9° \mathbb{Y} 43'10		transit end	11174 Feb 18 18:10	4° \mathbb{H} 53'49	
morning set	11173 Apr 12 15:32	18° \mathbb{Y} 29'18		asc. node	11174 Feb 19 08:20	4° \mathbb{H} 13'48	
	11173 Apr 19 23:50	0° \mathbb{B}			11174 Feb 23 21:18	30° \mathbb{R} \mathbb{A}	
max. Earth dist.	11173 Apr 28 03:12	12° \mathbb{B} 43'37	1.45628 AU	morning rise	11174 Feb 24 21:00	29° \mathbb{A} 26'03	
				direct	11174 Feb 27 15:11	28° \mathbb{A} 44'58	
superior conj	11173 Apr 28 20:00	13° \mathbb{B} 49'19	-2°03'07		11174 Mar 03 10:21	0° \mathbb{H}	
minimum elong	11173 Apr 28 12:49	13° \mathbb{B} 21'12	2°03'07	morning max el	11174 Mar 06 00:21	2° \mathbb{H} 06'28	18°04'50
	11173 May 09 02:50	0° \mathbb{H}		morning set	11174 Mar 24 10:16	29° \mathbb{H} 15'01	
evening rise	11173 May 14 08:27	8° \mathbb{H} 19'17		desc. node	11174 Mar 24 21:49	0° \mathbb{Y} 02'04	
greatest brilliancy	11173 May 22 02:39	20° \mathbb{H} 41'01	-0.9m		11174 Mar 24 21:19	0° \mathbb{Y}	
	11173 May 28 03:56	0° \mathbb{B}					
asc. node	11173 May 31 08:51	4° \mathbb{B} 31'33		superior conj	11174 Apr 08 04:21	22° \mathbb{Y} 54'43	-1°34'04
evening max el	11173 Jun 04 15:23	9° \mathbb{B} 35'26	18°42'36	minimum elong	11174 Apr 07 19:02	22° \mathbb{Y} 18'01	1°33'19
retrograde	11173 Jun 11 05:32	13° \mathbb{B} 11'37		max. Earth dist.	11174 Apr 10 23:30	27° \mathbb{Y} 18'23	1.45588 AU
evening set	11173 Jun 14 12:12	12° \mathbb{B} 10'11			11174 Apr 12 16:49	0° \mathbb{B}	
inferior conj	11173 Jun 20 02:58	6° \mathbb{B} 31'38	3°07'17	evening rise	11174 Apr 24 07:14	18° \mathbb{B} 00'52	
minimum elong	11173 Jun 20 04:21	6° \mathbb{B} 27'23	3°06'28		11174 May 02 02:01	0° \mathbb{H}	
min. Earth dist.	11173 Jun 22 00:41	4° \mathbb{B} 10'54	0.65632 AU	greatest brilliancy	11174 May 07 03:39	7° \mathbb{H} 40'15	-0.7m
morning rise	11173 Jun 25 19:42	0° \mathbb{B} 10'47		asc. node	11174 May 18 06:00	22° \mathbb{H} 33'04	
	11173 Jun 26 00:51	30° \mathbb{R} \mathbb{H}		evening max el	11174 May 18 23:05	23° \mathbb{H} 17'23	19°27'39
direct	11173 Jul 02 06:29	27° \mathbb{H} 27'38		retrograde	11174 May 26 02:56	27° \mathbb{H} 19'59	
desc. node	11173 Jul 04 01:18	27° \mathbb{H} 38'42		evening set	11174 May 29 18:14	26° \mathbb{H} 02'45	
	11173 Jul 09 07:06	0° \mathbb{B}		inferior conj	11174 Jun 04 03:37	20° \mathbb{H} 09'31	3°16'29
morning max el	11173 Jul 15 12:14	5° \mathbb{B} 17'50	26°51'55	minimum elong	11174 Jun 04 03:50	20° \mathbb{H} 08'47	3°15'50
	11173 Aug 03 09:17	0° \mathbb{B}		min. Earth dist.	11174 Jun 05 10:24	18° \mathbb{H} 28'08	0.67079 AU
morning set	11173 Aug 20 06:27	29° \mathbb{B} 02'16		morning rise	11174 Jun 09 13:02	13° \mathbb{H} 48'15	
	11173 Aug 20 18:30	0° \mathbb{M}		direct	11174 Jun 15 14:11	11° \mathbb{H} 08'42	
max. Earth dist.	11173 Aug 24 11:37	7° \mathbb{M} 17'57	1.34001 AU	desc. node	11174 Jun 20 22:24	12° \mathbb{H} 48'01	
asc. node	11173 Aug 27 08:51	13° \mathbb{M} 10'41		morning max el	11174 Jun 27 22:49	18° \mathbb{H} 32'43	25°39'38
					11174 Jul 07 14:44	0° \mathbb{B}	
superior conj	11173 Aug 28 21:49	16° \mathbb{M} 22'49	0°15'01		11174 Jul 27 10:18	0° \mathbb{B}	

morning set	11174 Aug 02 23:53	11°♊32'01		11175 Jul 01 15:25	0°♊	
max. Earth dist.	11174 Aug 06 16:44	18°♊25'04	1.35845 AU	morning set	11175 Jul 15 22:24	23°♊08'35
				max. Earth dist.	11175 Jul 19 14:41	29°♊37'04 1.38031 AU
					11175 Jul 19 19:48	0°♊
superior conj	11174 Aug 12 14:14	29°♊56'40	-0°15'51	superior conj	11175 Jul 26 18:50	12°♊54'51 -0°49'11
minimum elong	11174 Aug 12 15:12	0°♊01'36	0°16'02	minimum elong	11175 Jul 26 22:09	13°♊10'41 0°49'07
behind sun begin	11174 Aug 12 14:34	29°♊58'21		asc. node	11175 Aug 01 02:27	23°♊16'46
behind sun end	11174 Aug 12 15:51	0°♊04'50			11175 Aug 04 11:52	0°♊
	11174 Aug 12 14:53	0°♊		evening rise	11175 Aug 04 13:52	0°♊09'54
asc. node	11174 Aug 14 05:38	3°♊15'45		evening max el	11175 Aug 21 01:45	27°♊05'15 19°05'39
evening rise	11174 Aug 20 12:50	16°♊11'37			11175 Aug 24 17:39	0°♊
	11174 Aug 27 14:05	0°♊		retrograde	11175 Aug 30 00:28	1°♊32'50
evening max el	11174 Sep 07 08:23	15°♊29'04	20°06'35	evening set	11175 Aug 31 21:01	1°♊22'06
desc. node	11174 Sep 16 20:12	20°♊41'40		desc. node	11175 Sep 03 17:34	0°♊27'17
retrograde	11174 Sep 17 22:36	20°♊44'57			11175 Sep 04 16:36	30°♊
evening set	11174 Sep 19 21:27	20°♊35'00		inferior conj	11175 Sep 09 07:26	27°♊08'54 -1°44'36
inferior conj	11174 Sep 28 21:38	16°♊35'59	-3°37'27	minimum elong	11175 Sep 09 02:53	27°♊16'40 1°42'55
minimum elong	11174 Sep 28 12:25	16°♊49'45	3°34'15	min. Earth dist.	11175 Sep 12 03:28	25°♊13'06 0.56179 AU
min. Earth dist.	11174 Sep 30 14:23	15°♊35'06	0.54944 AU	morning rise	11175 Sep 17 05:42	22°♊24'05
morning rise	11174 Oct 07 02:18	12°♊26'28		direct	11175 Sep 22 14:58	21°♊16'22
direct	11174 Oct 11 16:09	11°♊41'03		morning max el	11175 Oct 06 19:00	28°♊30'43 25°49'09
morning max el	11174 Oct 25 06:52	18°♊21'13	24°07'47		11175 Oct 08 06:53	0°♊
	11174 Nov 03 21:06	0°♊		asc. node	11175 Oct 28 03:22	29°♊36'53
asc. node	11174 Nov 10 06:32	10°♊28'40			11175 Oct 28 08:10	0°♊
morning set	11174 Nov 19 00:15	27°♊49'43		morning set	11175 Nov 03 11:30	12°♊32'07
	11174 Nov 20 00:32	0°♊				
superior conj	11174 Nov 25 20:45	12°♊44'24	1°39'25	superior conj	11175 Nov 10 07:06	27°♊30'07 1°36'45
minimum elong	11174 Nov 25 20:47	12°♊44'37	1°40'03	minimum elong	11175 Nov 10 06:05	27°♊24'31 1°37'14
max. Earth dist.	11174 Nov 28 04:39	17°♊46'40	1.32762 AU		11175 Nov 11 10:13	0°♊
evening rise	11174 Dec 03 08:14	28°♊31'27		max. Earth dist.	11175 Nov 11 09:50	29°♊57'50 1.31848 AU
	11174 Dec 04 01:51	0°♊		evening rise	11175 Nov 17 08:00	12°♊43'41
desc. node	11174 Dec 13 18:01	17°♊57'48			11175 Nov 26 05:08	0°♊
	11174 Dec 21 06:03	0°♊		desc. node	11175 Nov 30 15:07	7°♊36'41
evening max el	11175 Jan 06 02:35	19°♊45'39	27°29'01		11175 Dec 16 23:50	0°♊
retrograde	11175 Jan 19 19:09	27°♊08'34		evening max el	11175 Dec 19 11:39	2°♊30'10 27°25'31
evening set	11175 Jan 26 17:12	24°♊38'53		retrograde	11176 Jan 02 08:46	9°♊47'23
min. Earth dist.	11175 Jan 30 12:02	21°♊20'14	0.63798 AU	evening set	11176 Jan 09 08:36	7°♊30'17
inferior conj	11175 Feb 02 03:07	18°♊38'17	-1°21'16	min. Earth dist.	11176 Jan 13 01:56	4°♊37'01 0.61807 AU
minimum elong	11175 Feb 02 05:42	18°♊31'36	1°19'43	inferior conj	11176 Jan 16 02:04	1°♊52'29 -2°36'14
asc. node	11175 Feb 06 05:36	14°♊50'31		minimum elong	11176 Jan 16 07:22	1°♊40'21 2°33'36
morning rise	11175 Feb 08 20:18	13°♊19'19			11176 Jan 18 04:54	30°♊
direct	11175 Feb 11 06:34	12°♊50'10		morning rise	11176 Jan 23 08:48	26°♊51'14
morning max el	11175 Feb 17 17:58	16°♊10'41	17°48'29	asc. node	11176 Jan 24 02:49	26°♊39'26
	11175 Feb 27 15:29	0°♊		direct	11176 Jan 25 13:27	26°♊30'17
morning set	11175 Mar 06 08:33	11°♊20'52			11176 Feb 01 10:58	0°♊
desc. node	11175 Mar 11 18:31	20°♊32'23		morning max el	11176 Feb 01 10:50	29°♊59'41 17°49'54
	11175 Mar 17 11:12	0°♊		morning set	11176 Feb 17 04:19	24°♊27'13
superior conj	11175 Mar 19 04:54	2°♊50'06	-0°53'59		11176 Feb 20 06:40	0°♊
minimum elong	11175 Mar 18 23:09	2°♊26'43	0°53'09	desc. node	11176 Feb 26 15:12	11°♊09'25
max. Earth dist.	11175 Mar 24 18:29	11°♊46'09	1.44815 AU			
evening rise	11175 Apr 03 19:01	27°♊23'04		superior conj	11176 Feb 28 05:38	13°♊54'04 -0°12'14
	11175 Apr 05 12:02	0°♊		minimum elong	11176 Feb 28 04:31	13°♊49'17 0°11'47
	11175 Apr 26 02:28	0°♊		behind sun begin	11176 Feb 27 22:37	13°♊24'10
evening max el	11175 May 02 01:16	7°♊01'16	20°27'40	behind sun end	11176 Feb 28 10:24	14°♊14'22
asc. node	11175 May 05 03:12	9°♊43'44		max. Earth dist.	11176 Mar 06 09:52	25°♊50'40 1.43403 AU
retrograde	11175 May 10 01:47	11°♊40'20			11176 Mar 08 23:44	0°♊
evening set	11175 May 14 02:29	10°♊07'14		evening rise	11176 Mar 13 11:09	7°♊04'02
inferior conj	11175 May 19 09:20	4°♊01'04	3°12'48		11176 Mar 28 18:19	0°♊
minimum elong	11175 May 19 08:31	4°♊03'53	3°12'09	evening max el	11176 Apr 13 21:56	20°♊45'58 21°39'36
min. Earth dist.	11175 May 20 02:03	3°♊03'43	0.68076 AU	asc. node	11176 Apr 21 00:28	25°♊48'00
	11175 May 22 10:26	30°♊		retrograde	11176 Apr 23 00:02	26°♊06'59
morning rise	11175 May 24 14:18	27°♊42'26		evening set	11176 Apr 27 11:04	24°♊18'23
direct	11175 May 30 03:26	25°♊14'46		inferior conj	11176 May 02 17:49	18°♊01'26 2°58'03
desc. node	11175 Jun 07 19:24	29°♊33'14		minimum elong	11176 May 02 16:11	18°♊07'06 2°57'20
	11175 Jun 08 07:28	0°♊		min. Earth dist.	11176 May 02 21:21	17°♊49'06 0.68609 AU
morning max el	11175 Jun 10 08:38	1°♊57'57	24°13'34	morning rise	11176 May 07 21:06	11°♊47'28

direct	11176 May 12 21:08	9° U 37'34			11177 Apr 18 16:21	30° R Y	
morning max el	11176 May 22 19:17	15° U 29'48	22°43'43	morning rise	11177 Apr 22 07:21	25° Y 59'22	
desc. node	11176 May 24 16:18	17° U 28'28		direct	11177 Apr 26 18:05	24° Y 10'25	
	11176 Jun 03 15:22	0° II		morning max el	11177 May 05 10:07	29° Y 10'50	21°18'40
	11176 Jun 23 15:10	0° S			11177 May 06 05:21	0° U	
morning set	11176 Jun 25 20:59	3° S 39'18		desc. node	11177 May 11 13:08	6° U 14'41	
max. Earth dist.	11176 Jun 30 12:07	11° S 24'09	1.40333 AU		11177 May 28 07:12	0° II	
				morning set	11177 Jun 05 17:19	12° II 59'03	
superior conj	11176 Jul 08 07:34	25° S 08'09	-1°22'24	max. Earth dist.	11177 Jun 12 15:12	24° II 05'17	1.42477 AU
minimum elong	11176 Jul 08 13:13	25° S 33'46	1°22'14		11177 Jun 16 04:50	0° S	
	11176 Jul 10 23:19	0° U					
asc. node	11176 Jul 17 23:20	13° U 10'02		superior conj	11177 Jun 19 23:48	6° S 25'39	-1°51'18
evening rise	11176 Jul 18 05:52	13° U 41'01		minimum elong	11177 Jun 20 06:22	6° S 53'53	1°51'23
	11176 Jul 27 06:01	0° U		evening rise	11177 Jul 01 08:44	26° S 34'16	
evening max el	11176 Aug 03 05:58	9° U 25'07	18°25'58		11177 Jul 03 06:17	0° U	
retrograde	11176 Aug 10 21:03	13° U 15'06		asc. node	11177 Jul 04 20:15	2° U 50'33	
evening set	11176 Aug 12 23:12	12° U 58'39		evening max el	11177 Jul 17 16:49	22° U 17'51	18°06'28
inferior conj	11176 Aug 20 14:34	8° U 25'27	0°00'14	retrograde	11177 Jul 24 11:39	25° U 45'29	
minimum elong	11176 Aug 20 14:34	8° U 25'27	0°00'05	evening set	11177 Jul 26 21:33	25° U 19'30	
transit middle	11176 Aug 20 14:34	8° U 25'27	0°00'05	inferior conj	11177 Aug 02 18:38	20° U 25'35	1°22'21
transit begin	11176 Aug 20 11:01	8° U 32'33		minimum elong	11177 Aug 02 20:57	20° U 20'12	1°21'06
transit end	11176 Aug 20 18:07	8° U 18'21		min. Earth dist.	11177 Aug 06 00:43	17° U 25'25	0.60307 AU
desc. node	11176 Aug 20 14:52	8° U 24'51		desc. node	11177 Aug 07 12:09	16° U 10'42	
min. Earth dist.	11176 Aug 23 22:19	5° U 47'08	0.58075 AU	morning rise	11177 Aug 09 17:26	14° U 35'07	
morning rise	11176 Aug 28 02:23	3° U 04'06		direct	11177 Aug 16 06:23	12° U 30'51	
direct	11176 Sep 03 04:30	1° U 28'10		morning max el	11177 Aug 30 13:42	20° U 25'19	27°50'20
morning max el	11176 Sep 17 12:45	9° U 06'54	27°07'12		11177 Sep 07 19:35	0° U	
	11176 Oct 03 10:40	0° U			11177 Sep 26 08:55	0° U	
asc. node	11176 Oct 14 00:09	19° U 08'15		asc. node	11177 Sep 30 20:55	8° U 55'22	
morning set	11176 Oct 17 20:32	27° U 05'16		morning set	11177 Oct 02 01:30	11° U 23'15	
	11176 Oct 19 05:10	0° U		max. Earth dist.	11177 Oct 08 03:20	24° U 29'58	1.31495 AU
superior conj	11176 Oct 24 18:50	12° U 16'51	1°28'21	superior conj	11177 Oct 09 06:02	26° U 57'50	1°14'26
minimum elong	11176 Oct 24 17:02	12° U 06'49	1°28'34	minimum elong	11177 Oct 09 03:49	26° U 45'34	1°14'21
max. Earth dist.	11176 Oct 24 18:38	12° U 15'42	1.31425 AU		11177 Oct 10 14:49	0° U	
evening rise	11176 Oct 31 13:44	27° U 10'38		evening rise	11177 Oct 15 23:09	11° U 45'04	
	11176 Nov 01 21:51	0° U			11177 Oct 25 02:36	0° U	
desc. node	11176 Nov 16 12:15	26° U 41'11		desc. node	11177 Nov 03 09:27	14° U 56'56	
	11176 Nov 18 16:59	0° U		evening max el	11177 Nov 12 10:09	25° U 37'06	25°37'35
evening max el	11176 Nov 30 14:57	14° U 29'55	26°47'56		11177 Nov 18 00:06	0° U	
retrograde	11176 Dec 14 13:28	21° U 38'28		retrograde	11177 Nov 26 07:20	2° U 36'58	
evening set	11176 Dec 21 07:30	19° U 43'22		evening set	11177 Dec 02 09:18	1° U 11'34	
min. Earth dist.	11176 Dec 25 05:15	17° U 05'30	0.59689 AU		11177 Dec 04 16:09	30° R U	
inferior conj	11176 Dec 28 09:24	14° U 33'41	-3°53'12	min. Earth dist.	11177 Dec 06 22:30	28° U 34'19	0.57633 AU
minimum elong	11176 Dec 28 17:04	14° U 18'21	3°50'06	inferior conj	11177 Dec 09 21:40	26° U 31'22	-5°01'45
morning rise	11177 Jan 05 05:23	9° U 52'58		minimum elong	11177 Dec 10 05:28	26° U 17'52	4°59'26
direct	11177 Jan 07 07:57	9° U 36'30		morning rise	11177 Dec 18 04:00	22° U 13'12	
asc. node	11177 Jan 09 23:58	10° U 04'08		direct	11177 Dec 20 09:43	21° U 57'46	
morning max el	11177 Jan 14 23:27	13° U 24'00	18°10'22	asc. node	11177 Dec 27 21:02	25° U 02'59	
	11177 Jan 26 04:28	0° U		morning max el	11177 Dec 29 03:58	26° U 12'29	18°51'52
morning set	11177 Jan 30 15:29	8° U 16'15			11178 Jan 01 11:56	0° U	
				morning set	11178 Jan 14 13:15	22° U 33'27	
superior conj	11177 Feb 09 06:04	26° U 04'18	0°24'59		11178 Jan 18 08:14	0° U	
minimum elong	11177 Feb 09 07:56	26° U 12'44	0°25'06				
	11177 Feb 11 10:57	0° U		superior conj	11178 Jan 23 01:54	9° U 08'39	0°54'50
desc. node	11177 Feb 12 11:56	1° U 49'50		minimum elong	11178 Jan 23 04:52	9° U 22'46	0°54'56
max. Earth dist.	11177 Feb 16 20:52	9° U 20'43	1.41508 AU	max. Earth dist.	11178 Jan 30 04:13	22° U 10'14	1.39333 AU
evening rise	11177 Feb 21 19:56	17° U 32'29		desc. node	11178 Jan 30 08:42	22° U 30'01	
	11177 Mar 01 18:19	0° Y		evening rise	11178 Feb 03 01:58	28° U 57'01	
	11177 Mar 23 10:42	0° U			11178 Feb 03 16:49	0° U	
evening max el	11177 Mar 27 14:20	4° U 32'40	22°58'42		11178 Feb 23 05:00	0° Y	
retrograde	11177 Apr 06 20:03	10° U 35'28		evening max el	11178 Mar 10 04:21	18° Y 22'09	24°18'57
asc. node	11177 Apr 07 21:44	10° U 30'00		retrograde	11178 Mar 21 12:40	25° Y 01'08	
evening set	11177 Apr 11 18:24	8° U 32'07		asc. node	11178 Mar 25 19:00	23° Y 37'57	
inferior conj	11177 Apr 17 03:02	2° U 07'12	2°33'16	evening set	11178 Mar 26 22:59	22° Y 44'40	
minimum elong	11177 Apr 17 00:56	2° U 14'27	2°32'29	min. Earth dist.	11178 Mar 31 14:03	17° Y 26'18	0.68328 AU
min. Earth dist.	11177 Apr 16 18:04	2° U 38'15	0.68689 AU	inferior conj	11178 Apr 01 11:09	16° Y 15'16	1°58'57

minimum elong	11178 Apr 01 09:01	16° Υ 22'29	1°58'10	minimum elong	11179 Mar 16 14:36	0° Υ 27'01	1°14'33
morning rise	11178 Apr 06 19:08	10° Υ 14'51		morning rise	11179 Mar 16 23:02	30° \Re	
direct	11178 Apr 10 17:01	8° Υ 47'38		morning rise	11179 Mar 22 06:29	24° \Re 30'00	
morning max el	11178 Apr 18 08:06	13° Υ 04'28	20°04'40	direct	11179 Mar 25 16:27	23° \Re 23'06	
desc. node	11178 Apr 28 09:54	25° Υ 38'16		morning max el	11179 Apr 01 13:55	27° \Re 08'51	19°05'12
	11178 May 01 11:06	0° \Re			11179 Apr 04 04:44	0° Υ	
morning set	11178 May 15 18:57	21° \Re 32'24		greatest brilliancy	11179 Apr 14 18:35	14° Υ 43'24	-0.7m
	11178 May 21 05:39	0° Π		desc. node	11179 Apr 15 06:38	15° Υ 28'51	
max. Earth dist.	11178 May 26 01:39	7° Π 38'23	1.44196 AU	morning set	11179 Apr 24 22:18	0° \Re 17'43	
					11179 Apr 24 17:43	0° \Re	
superior conj	11178 May 31 16:06	16° Π 40'55	-2°09'53	max. Earth dist.	11179 May 08 17:28	21° \Re 46'45	1.45305 AU
minimum elong	11178 May 31 19:54	16° Π 56'28	2°10'23				
	11178 Jun 08 16:10	0° \Re		superior conj	11179 May 11 09:58	26° \Re 00'37	-2°11'29
evening rise	11178 Jun 13 17:40	8° \Re 38'44		minimum elong	11179 May 11 06:46	25° \Re 48'00	2°11'55
asc. node	11178 Jun 21 17:13	22° \Re 13'23			11179 May 13 22:27	0° Π	
	11178 Jun 26 17:29	0° \Re		evening rise	11179 May 26 04:03	19° Π 44'10	
evening max el	11178 Jul 01 06:33	5° \Re 34'05	18°06'08		11179 Jun 01 10:42	0° \Re	
retrograde	11178 Jul 07 16:09	8° \Re 54'26		asc. node	11179 Jun 08 14:15	11° \Re 11'25	
evening set	11178 Jul 10 09:59	8° \Re 16'09		evening max el	11179 Jun 14 19:50	19° \Re 04'53	18°24'14
inferior conj	11178 Jul 16 16:14	3° \Re 03'23	2°19'34	retrograde	11179 Jun 21 05:58	22° \Re 31'51	
minimum elong	11178 Jul 16 18:55	2° \Re 56'16	2°18'18	evening set	11179 Jun 24 07:47	21° \Re 39'22	
min. Earth dist.	11178 Jul 19 12:21	0° \Re 03'57	0.62559 AU	inferior conj	11179 Jun 30 03:09	16° \Re 09'47	2°55'05
	11178 Jul 19 13:55	30° \Re		minimum elong	11179 Jun 30 05:08	16° \Re 03'56	2°54'06
morning rise	11178 Jul 23 01:53	26° \Re 54'01		min. Earth dist.	11179 Jul 02 09:28	13° \Re 30'31	0.64604 AU
desc. node	11178 Jul 25 09:22	25° \Re 29'30		morning rise	11179 Jul 06 01:18	9° \Re 50'54	
direct	11178 Jul 29 18:39	24° \Re 26'57		desc. node	11179 Jul 12 06:34	7° \Re 10'49	
	11178 Aug 10 05:02	0° \Re		direct	11179 Jul 12 15:42	7° \Re 10'19	
morning max el	11178 Aug 12 20:42	2° \Re 29'14	27°54'47	morning max el	11179 Jul 26 06:57	15° \Re 09'45	27°23'27
	11178 Sep 02 05:04	0° \Re			11179 Aug 07 10:03	0° \Re	
morning set	11178 Sep 16 00:20	25° \Re 21'07			11179 Aug 25 22:25	0° \Re	
asc. node	11178 Sep 17 17:41	28° \Re 53'17		morning set	11179 Aug 30 14:30	8° \Re 52'07	
	11178 Sep 18 06:30	0° \Re		max. Earth dist.	11179 Sep 04 05:04	18° \Re 08'45	1.33143 AU
max. Earth dist.	11178 Sep 21 08:07	6° \Re 30'50	1.32067 AU	asc. node	11179 Sep 04 14:27	18° \Re 57'19	
superior conj	11178 Sep 23 14:53	11° \Re 28'08	0°55'14	superior conj	11179 Sep 07 19:20	25° \Re 42'03	0°31'02
minimum elong	11178 Sep 23 12:44	11° \Re 16'28	0°54'55	minimum elong	11179 Sep 07 17:52	25° \Re 34'14	0°30'38
evening rise	11178 Sep 30 10:23	26° \Re 21'54			11179 Sep 09 19:29	0° \Re	
	11178 Oct 02 03:23	0° \Re		evening rise	11179 Sep 14 21:32	10° \Re 55'47	
	11178 Oct 19 13:42	0° \Re			11179 Sep 24 14:59	0° \Re	
desc. node	11178 Oct 21 06:43	2° \Re 05'35		evening max el	11179 Oct 06 09:15	16° \Re 04'57	22°23'02
evening max el	11178 Oct 24 21:59	5° \Re 59'05	24°03'47	desc. node	11179 Oct 08 04:00	17° \Re 42'44	
retrograde	11178 Nov 07 13:08	12° \Re 48'04		retrograde	11179 Oct 19 07:14	22° \Re 30'32	
evening set	11178 Nov 12 10:48	11° \Re 55'22		evening set	11179 Oct 22 17:22	22° \Re 04'41	
min. Earth dist.	11178 Nov 18 08:39	8° \Re 59'45	0.55909 AU	min. Earth dist.	11179 Oct 30 16:02	18° \Re 32'42	0.54824 AU
inferior conj	11178 Nov 20 13:22	7° \Re 39'36	-5°43'58	inferior conj	11179 Oct 31 11:59	18° \Re 04'33	-5°38'16
minimum elong	11178 Nov 20 16:33	7° \Re 34'44	5°43'11	minimum elong	11179 Oct 31 06:51	18° \Re 11'48	5°37'17
morning rise	11178 Nov 29 00:19	3° \Re 42'09		morning rise	11179 Nov 08 21:51	14° \Re 17'16	
direct	11178 Dec 01 15:49	3° \Re 24'10		direct	11179 Nov 12 05:16	13° \Re 52'37	
morning max el	11178 Dec 11 20:43	8° \Re 15'08	19°55'59	morning max el	11179 Nov 23 23:46	19° \Re 26'52	21°22'20
asc. node	11178 Dec 14 18:05	11° \Re 22'57		asc. node	11179 Dec 01 15:04	28° \Re 47'56	
	11178 Dec 26 04:15	0° \Re			11179 Dec 02 10:00	0° \Re	
morning set	11178 Dec 29 18:02	7° \Re 08'11		morning set	11179 Dec 14 03:13	21° \Re 52'53	
					11179 Dec 17 23:48	0° \Re	
superior conj	11179 Jan 06 12:19	22° \Re 53'29	1°16'43	superior conj	11179 Dec 21 09:16	7° \Re 07'07	1°30'58
minimum elong	11179 Jan 06 15:05	23° \Re 07'17	1°17'01	minimum elong	11179 Dec 21 11:08	7° \Re 16'51	1°31'29
	11179 Jan 10 03:23	0° \Re		max. Earth dist.	11179 Dec 25 21:09	16° \Re 16'13	1.35133 AU
max. Earth dist.	11179 Jan 12 10:43	4° \Re 22'46	1.37129 AU	evening rise	11179 Dec 30 00:05	24° \Re 15'51	
evening rise	11179 Jan 16 04:24	11° \Re 14'08			11180 Jan 02 02:29	0° \Re	
desc. node	11179 Jan 17 05:31	13° \Re 06'07		desc. node	11180 Jan 04 02:26	3° \Re 34'10	
	11179 Jan 27 08:25	0° \Re			11180 Jan 20 22:29	0° \Re	
	11179 Feb 18 14:01	0° Υ		evening max el	11180 Feb 03 07:06	15° \Re 58'07	26°35'18
evening max el	11179 Feb 20 17:36	2° Υ 12'07	25°33'33	retrograde	11180 Feb 16 08:02	23° \Re 18'27	
retrograde	11179 Mar 05 00:56	9° Υ 17'42		evening set	11180 Feb 22 17:20	20° \Re 45'51	
evening set	11179 Mar 10 23:12	6° Υ 50'56		min. Earth dist.	11180 Feb 26 19:20	16° \Re 36'44	0.66371 AU
asc. node	11179 Mar 12 16:17	5° Υ 13'02		asc. node	11180 Feb 27 13:33	15° \Re 42'45	
min. Earth dist.	11179 Mar 15 07:10	2° Υ 07'38	0.67547 AU	inferior conj	11180 Feb 28 16:22	14° \Re 22'17	0°21'44
inferior conj	11179 Mar 16 16:17	0° Υ 21'38	1°15'06				

minimum elong	11180 Feb 28 15:47	14°  24'02	0°21'43	retrograde	11181 Jan 29 08:56	6°  54'20	
morning rise	11180 Mar 05 15:16	8°  41'12		evening set	11181 Feb 05 03:12	4°  21'47	
direct	11180 Mar 08 14:41	7°  51'47		min. Earth dist.	11181 Feb 09 00:22	0°  45'21	0.64830 AU
morning max el	11180 Mar 15 02:16	11°  19'02	18°21'57		11181 Feb 09 17:12	30°  R \approx	
	11180 Mar 28 13:41	0°  Y		inferior conj	11181 Feb 11 08:59	28° \approx 10'46	-0°41'07
desc. node	11180 Apr 01 03:23	5°  Y39'26		minimum elong	11181 Feb 11 10:13	28° \approx 07'24	0°40'13
morning set	11180 Apr 04 00:10	10°  Y13'10		asc. node	11181 Feb 13 10:50	25° \approx 59'03	
	11180 Apr 16 12:34	0°  8		morning rise	11181 Feb 17 18:55	22° \approx 42'36	
				direct	11181 Feb 20 09:25	22° \approx 07'05	
superior conj	11180 Apr 19 16:42	4°  857'59	-1°52'45	morning max el	11181 Feb 26 18:42	25° \approx 27'13	17°55'39
minimum elong	11180 Apr 19 07:43	4°  822'54	1°52'24		11181 Mar 02 15:25	0°  H	
max. Earth dist.	11180 Apr 20 12:19	6°  814'39	1.45702 AU	morning set	11181 Mar 16 07:13	21°  H35'01	
evening rise	11180 May 05 14:29	29°  851'18		desc. node	11181 Mar 19 00:05	26°  H03'51	
	11180 May 05 16:42	0°  II			11181 Mar 21 09:25	0°  Y	
greatest brilliancy	11180 May 15 18:05	15°  II43'40	-0.8m				
asc. node	11180 May 25 11:20	29°  II36'31		superior conj	11181 Mar 30 06:13	14°  Y20'19	-1°17'50
	11180 May 25 19:02	0°  6		minimum elong	11181 Mar 29 21:59	13°  Y47'29	1°16'56
evening max el	11180 May 28 06:10	2°  644'15	18°59'50	max. Earth dist.	11181 Apr 03 08:09	20°  Y47'42	1.45350 AU
retrograde	11180 Jun 04 01:22	6°  630'26			11181 Apr 09 05:38	0°  8	
evening set	11180 Jun 07 11:33	5°  622'32		evening rise	11181 Apr 15 06:46	9°  819'54	
inferior conj	11180 Jun 12 23:40	29°  II37'45	3°12'54		11181 Apr 28 22:36	0°  II	
minimum elong	11180 Jun 13 00:33	29°  II34'55	3°12'10	greatest brilliancy	11181 Apr 29 19:08	1°  II15'20	-0.6m
	11180 Jun 12 16:40	30°  R \approx II		evening max el	11181 May 11 11:42	16°  II27'53	19°51'35
min. Earth dist.	11180 Jun 14 15:04	27°  II32'29	0.66301 AU	asc. node	11181 May 12 08:29	17°  II18'21	
morning rise	11180 Jun 18 12:55	23°  II16'03		retrograde	11181 May 18 23:31	20°  II44'37	
direct	11180 Jun 24 20:01	20°  II32'56		evening set	11181 May 22 18:45	19°  II20'41	
desc. node	11180 Jun 28 03:42	21°  II11'24		inferior conj	11181 May 28 02:45	13°  II22'00	3°16'20
morning max el	11180 Jul 07 17:43	28°  II14'37	26°23'24	minimum elong	11181 May 28 02:30	13°  II22'49	3°15'42
	11180 Jul 09 09:53	0°  6		min. Earth dist.	11181 May 29 03:30	11°  II58'51	0.67564 AU
	11180 Jul 31 04:10	0°  Q		morning rise	11181 Jun 02 09:56	7°  II01'42	
morning set	11180 Aug 12 16:39	21°  Q47'09		direct	11181 Jun 08 06:20	4°  II26'05	
max. Earth dist.	11180 Aug 16 15:34	29°  Q22'10	1.34725 AU	desc. node	11181 Jun 15 00:46	7°  II05'06	
	11180 Aug 16 23:16	0°  np		morning max el	11181 Jun 20 03:40	11°  II34'01	25°04'02
asc. node	11180 Aug 21 11:13	9°  np03'07			11181 Jul 04 21:26	0°  6	
					11181 Jul 23 21:05	0°  Q	
superior conj	11180 Aug 21 16:59	9°  np32'44	0°02'21	morning set	11181 Jul 26 02:38	3°  Q55'55	
minimum elong	11180 Aug 21 16:52	9°  np32'08	0°02'03	max. Earth dist.	11181 Jul 29 16:47	10°  Q27'08	1.36743 AU
behind sun begin	11180 Aug 21 10:59	9°  np01'56					
behind sun end	11180 Aug 21 22:44	10°  np02'23		superior conj	11181 Aug 05 04:51	22°  Q53'03	-0°29'48
evening rise	11180 Aug 29 06:35	25°  np20'43		minimum elong	11181 Aug 05 06:46	23°  Q02'29	0°29'52
	11180 Aug 31 12:48	0°  A		asc. node	11181 Aug 08 08:01	29°  Q07'16	
evening max el	11180 Sep 17 05:21	26°  A31'07	20°51'20		11181 Aug 08 18:30	0°  np	
	11180 Sep 21 12:34	0°  M		evening rise	11181 Aug 13 11:20	9°  np31'05	
desc. node	11180 Sep 24 01:21	1°  M18'18			11181 Aug 24 14:28	0°  A	
retrograde	11180 Sep 28 18:33	2°  M14'58		evening max el	11181 Aug 30 15:05	7°  A40'22	19°38'04
evening set	11180 Oct 01 01:21	2°  M02'29		retrograde	11181 Sep 09 11:37	12°  A34'27	
	11180 Oct 06 17:32	30°  R \approx A		desc. node	11181 Sep 10 22:42	12°  A28'26	
inferior conj	11180 Oct 10 03:56	28°  A07'26	-4°34'40	evening set	11181 Sep 11 08:16	12°  A24'46	
minimum elong	11180 Oct 09 18:01	28°  A21'33	4°31'48	inferior conj	11181 Sep 20 03:46	8°  A20'58	-2°50'14
min. Earth dist.	11180 Oct 10 23:46	27°  A39'11	0.54624 AU	minimum elong	11181 Sep 19 20:14	8°  A32'46	2°47'27
morning rise	11180 Oct 18 10:44	24°  A11'46		min. Earth dist.	11181 Sep 22 09:58	6°  A56'00	0.55373 AU
direct	11180 Oct 22 13:29	23°  A35'25		morning rise	11181 Sep 28 06:14	3°  A57'53	
morning max el	11180 Nov 04 15:11	29°  A53'20	23°05'29	direct	11181 Oct 03 04:48	3°  A03'45	
	11180 Nov 04 18:00	0°  M		morning max el	11181 Oct 17 02:01	9°  A59'01	24°52'41
asc. node	11180 Nov 17 12:01	17°  M02'19			11181 Nov 01 01:23	0°  M	
	11180 Nov 24 09:36	0°  x		asc. node	11181 Nov 04 08:55	5°  M53'59	
morning set	11180 Nov 27 14:35	6°  x40'33		morning set	11181 Nov 12 02:23	21°  M26'23	
					11181 Nov 16 00:47	0°  x	
superior conj	11180 Dec 04 13:22	21°  x38'53	1°38'12				
minimum elong	11180 Dec 04 14:05	21°  x42'44	1°38'50	superior conj	11181 Nov 18 22:03	6°  x21'19	1°39'01
max. Earth dist.	11180 Dec 07 15:14	28°  x10'56	1.33505 AU	minimum elong	11181 Nov 18 21:38	6°  x18'57	1°39'35
	11180 Dec 08 12:10	0°  3		max. Earth dist.	11181 Nov 20 17:10	10°  x17'03	1.32321 AU
evening rise	11180 Dec 12 09:13	7°  351'32		evening rise	11181 Nov 26 04:28	21°  x52'41	
desc. node	11180 Dec 20 23:24	23°  348'23			11181 Nov 30 06:26	0°  3	
	11180 Dec 24 15:29	0° \approx		desc. node	11181 Dec 07 20:25	13°  342'32	
evening max el	11181 Jan 15 20:27	29° \approx 30'27	27°16'57		11181 Dec 18 12:39	0° \approx	
	11181 Jan 16 08:57	0°  H		evening max el	11181 Dec 29 07:53	12° \approx 36'37	27°31'31

retrograde	11182 Jan 12 02:37	19° \approx 56'39		retrograde	11182 Dec 25 12:25	2° \approx 16'39	
evening set	11182 Jan 19 02:12	17° \approx 31'32		evening set	11183 Jan 01 11:07	0° \approx 07'35	
min. Earth dist.	11182 Jan 22 20:08	14° \approx 24'23	0.62984 AU		11183 Jan 01 16:03	30° \approx 3	
inferior conj	11182 Jan 25 15:19	11° \approx 40'01	-1°52'24	min. Earth dist.	11183 Jan 05 05:16	27° \approx 22'44	0.60914 AU
minimum elong	11182 Jan 25 19:02	11° \approx 30'55	1°50'22	inferior conj	11183 Jan 08 08:04	24° \approx 34'38	-3°09'06
asc. node	11182 Jan 31 08:06	7° \approx 01'33		minimum elong	11183 Jan 08 14:30	24° \approx 27'44	3°06'08
morning rise	11182 Feb 01 14:08	6° \approx 27'55		morning rise	11183 Jan 15 20:36	19° \approx 348'57	
direct	11182 Feb 03 21:48	6° \approx 02'35		direct	11183 Jan 17 24:00	19° \approx 330'14	
morning max el	11182 Feb 10 12:18	9° \approx 25'34	17°46'46	asc. node	11183 Jan 18 05:18	19° \approx 330'26	
	11182 Feb 24 06:10	0° \approx		morning max el	11183 Jan 25 03:51	23° \approx 305'48	17°56'13
morning set	11182 Feb 26 15:25	4° \approx 09'13			11183 Jan 30 14:24	0° \approx	
desc. node	11182 Mar 05 20:46	16° \approx 37'30		morning set	11183 Feb 09 18:27	17° \approx 36'25	
					11183 Feb 16 14:15	0° \approx	
superior conj	11182 Mar 10 16:33	24° \approx 43'27	-0°35'59	superior conj	11183 Feb 20 03:52	6° \approx 17'49	0°04'23
minimum elong	11182 Mar 10 12:52	24° \approx 28'12	0°35'18	minimum elong	11183 Feb 20 04:16	6° \approx 19'33	0°04'38
	11182 Mar 13 21:40	0° \approx		behind sun begin	11183 Feb 19 20:24	5° \approx 45'17	
max. Earth dist.	11182 Mar 17 02:16	5° \approx 09'00	1.44292 AU	behind sun end	11183 Feb 20 12:07	6° \approx 53'44	
evening rise	11182 Mar 25 18:31	18° \approx 45'48		desc. node	11183 Feb 20 17:27	7° \approx 16'55	
	11182 Apr 02 04:07	0° \approx		max. Earth dist.	11183 Feb 27 16:17	19° \approx 02'23	1.42645 AU
	11182 Apr 24 06:38	0° \approx		evening rise	11183 Mar 05 16:43	28° \approx 45'14	
evening max el	11182 Apr 24 11:30	0° \approx 12'23	20°57'06		11183 Mar 06 11:41	0° \approx	
asc. node	11182 Apr 29 05:42	4° \approx 02'57			11183 Mar 26 19:45	0° \approx	
retrograde	11182 May 02 22:14	5° \approx 08'26		evening max el	11183 Apr 07 06:04	13° \approx 57'54	22°12'37
evening set	11182 May 07 03:19	3° \approx 28'28		asc. node	11183 Apr 16 02:57	19° \approx 334'51	
	11182 May 10 09:40	30° \approx 8		retrograde	11183 Apr 16 19:46	19° \approx 337'14	
inferior conj	11182 May 12 09:52	27° \approx 817'31	3°07'47	evening set	11183 Apr 21 11:35	17° \approx 341'56	
minimum elong	11182 May 12 08:40	27° \approx 821'40	3°07'07	inferior conj	11183 Apr 26 18:53	11° \approx 821'02	2°48'42
min. Earth dist.	11182 May 12 20:49	26° \approx 839'35	0.68363 AU	minimum elong	11183 Apr 26 17:01	11° \approx 827'32	2°47'58
morning rise	11182 May 17 13:48	21° \approx 800'57		min. Earth dist.	11183 Apr 26 16:56	11° \approx 827'49	0.68699 AU
direct	11182 May 22 21:28	18° \approx 840'25		morning rise	11183 May 01 22:19	5° \approx 809'38	
desc. node	11182 Jun 01 21:44	24° \approx 822'54		direct	11183 May 06 16:34	3° \approx 808'42	
morning max el	11182 Jun 02 13:27	25° \approx 801'54	23°35'17	morning max el	11183 May 16 01:38	8° \approx 838'24	22°06'32
	11182 Jun 07 01:05	0° \approx		desc. node	11183 May 19 18:36	12° \approx 842'16	
	11182 Jun 28 08:43	0° \approx			11183 Jun 01 16:49	0° \approx	
morning set	11182 Jul 07 15:26	15° \approx 805'20		morning set	11183 Jun 18 02:45	25° \approx 805'45	
max. Earth dist.	11182 Jul 11 14:04	21° \approx 852'40	1.39018 AU		11183 Jun 21 03:04	0° \approx	
	11182 Jul 16 03:04	0° \approx		max. Earth dist.	11183 Jun 23 13:43	4° \approx 803'14	1.41285 AU
superior conj	11182 Jul 19 03:12	5° \approx 833'17	-1°03'29	superior conj	11183 Jul 01 07:41	17° \approx 823'45	-1°35'30
minimum elong	11182 Jul 19 07:34	5° \approx 853'42	1°03'21	minimum elong	11183 Jul 01 14:01	17° \approx 851'50	1°35'24
asc. node	11182 Jul 26 04:49	19° \approx 805'28			11183 Jul 08 06:36	0° \approx	
evening rise	11182 Jul 28 08:56	23° \approx 819'00		evening rise	11183 Jul 11 19:53	6° \approx 835'37	
	11182 Jul 31 20:17	0° \approx		asc. node	11183 Jul 13 01:41	8° \approx 853'57	
evening max el	11182 Aug 13 13:25	19° \approx 835'26	18°46'08		11183 Jul 25 21:42	0° \approx	
retrograde	11182 Aug 21 21:20	23° \approx 845'30		evening max el	11183 Jul 27 20:51	2° \approx 810'02	18°15'11
evening set	11182 Aug 23 19:47	23° \approx 832'49		retrograde	11183 Aug 04 02:06	5° \approx 849'01	
desc. node	11182 Aug 28 20:02	21° \approx 819'19		evening set	11183 Aug 06 07:19	5° \approx 829'02	
inferior conj	11182 Aug 31 22:14	19° \approx 810'58	-0°57'52	inferior conj	11183 Aug 13 14:35	0° \approx 846'49	0°38'11
minimum elong	11182 Aug 31 19:50	19° \approx 815'21	0°57'06	minimum elong	11183 Aug 13 15:51	0° \approx 844'06	0°37'20
min. Earth dist.	11182 Sep 04 00:56	16° \approx 855'17	0.56926 AU		11183 Aug 14 12:21	30° \approx 88	
morning rise	11182 Sep 08 16:32	14° \approx 810'17		desc. node	11183 Aug 15 17:20	28° \approx 857'49	
direct	11182 Sep 14 09:24	12° \approx 851'18		min. Earth dist.	11183 Aug 16 22:55	27° \approx 856'15	0.59003 AU
morning max el	11182 Sep 28 16:04	20° \approx 816'25	26°26'13	morning rise	11183 Aug 20 20:59	25° \approx 811'25	
	11182 Oct 07 00:49	0° \approx		direct	11183 Aug 27 04:17	23° \approx 823'12	
asc. node	11182 Oct 22 05:44	25° \approx 812'50			11183 Sep 09 07:33	0° \approx	
	11182 Oct 24 15:04	0° \approx		morning max el	11183 Sep 10 13:09	1° \approx 810'15	27°30'17
morning set	11182 Oct 27 12:54	6° \approx 805'16			11183 Oct 01 06:17	0° \approx	
superior conj	11182 Nov 03 09:12	21° \approx 807'44	1°33'53	asc. node	11183 Oct 09 02:30	14° \approx 851'33	
minimum elong	11182 Nov 03 07:48	21° \approx 800'01	1°34'15	morning set	11183 Oct 11 20:25	20° \approx 832'32	
max. Earth dist.	11182 Nov 04 00:26	22° \approx 832'27	1.31607 AU		11183 Oct 16 05:22	0° \approx	
	11182 Nov 07 09:42	0° \approx		superior conj	11183 Oct 18 20:53	5° \approx 852'26	1°23'06
evening rise	11182 Nov 10 07:02	6° \approx 811'33		minimum elong	11183 Oct 18 18:52	5° \approx 841'09	1°23'11
	11182 Nov 22 19:46	0° \approx		max. Earth dist.	11183 Oct 18 09:36	4° \approx 849'32	1.31387 AU
desc. node	11182 Nov 24 17:31	3° \approx 808'18		evening rise	11183 Oct 25 14:32	20° \approx 841'54	
evening max el	11182 Dec 11 14:48	25° \approx 803'22	27°13'45		11183 Oct 30 02:15	0° \approx	
	11182 Dec 18 00:38	0° \approx					

desc. node	11183 Nov 11 14:41	21°♊54'00		desc. node	11184 Oct 28 11:54	9°♊44'23	
	11183 Nov 17 12:42	0°♊		evening max el	11184 Nov 04 06:14	17°♊26'24	24°59'47
evening max el	11183 Nov 23 14:33	6°♊39'55	26°21'40	retrograde	11184 Nov 18 02:15	24°♊22'49	
retrograde	11183 Dec 07 12:58	13°♊45'42		evening set	11184 Nov 23 17:17	23°♊11'38	
evening set	11183 Dec 14 01:38	12°♊02'09		min. Earth dist.	11184 Nov 28 18:08	20°♊28'38	0.56833 AU
min. Earth dist.	11183 Dec 18 03:58	9°♊26'53	0.58782 AU	inferior conj	11184 Dec 01 11:07	18°♊42'29	-5°24'14
inferior conj	11183 Dec 21 07:35	7°♊05'03	-4°24'16	minimum elong	11184 Dec 01 17:38	18°♊31'49	5°22'36
minimum elong	11183 Dec 21 15:44	6°♊49'42	4°21'19	morning rise	11184 Dec 09 20:13	14°♊33'33	
morning rise	11183 Dec 29 08:34	2°♊34'16		direct	11184 Dec 12 05:00	14°♊17'37	
direct	11183 Dec 31 11:37	2°♊18'47		morning max el	11184 Dec 21 13:33	18°♊47'19	19°16'21
asc. node	11184 Jan 05 02:26	3°♊36'17		asc. node	11184 Dec 21 23:30	19°♊11'47	
morning max el	11184 Jan 08 13:34	6°♊16'40	18°25'28		11184 Dec 29 21:57	0°♊	
	11184 Jan 23 13:57	0°♊		morning set	11185 Jan 07 11:47	16°♊04'42	
morning set	11184 Jan 24 10:38	1°♊38'55			11185 Jan 14 11:47	0°♊	
superior conj	11184 Feb 02 13:12	18°♊53'20	0°38'35	superior conj	11185 Jan 15 15:48	2°♊16'29	1°05'03
minimum elong	11184 Feb 02 15:45	19°♊05'02	0°38'40	minimum elong	11185 Jan 15 18:49	2°♊31'04	1°05'14
desc. node	11184 Feb 07 14:11	27°♊57'54		max. Earth dist.	11185 Jan 22 07:14	14°♊45'04	1.38383 AU
	11184 Feb 08 18:06	0°♋		desc. node	11185 Jan 24 11:00	18°♊37'01	
max. Earth dist.	11184 Feb 10 01:11	2°♋14'27	1.40595 AU	evening rise	11185 Jan 26 01:27	21°♊25'45	
evening rise	11184 Feb 14 10:22	9°♋37'30			11185 Jan 31 02:59	0°♋	
	11184 Feb 27 11:14	0°♋			11185 Feb 20 10:43	0°♋	
evening max el	11184 Mar 19 21:03	27°♋45'28	23°33'01	evening max el	11185 Mar 02 10:40	11°♋36'00	24°51'50
	11184 Mar 22 06:44	0°♋		retrograde	11185 Mar 14 05:34	18°♋27'48	
retrograde	11184 Mar 30 14:39	4°♋05'24		evening set	11185 Mar 19 20:53	16°♋06'49	
asc. node	11184 Apr 02 00:13	3°♋38'14		asc. node	11185 Mar 19 21:31	16°♋05'28	
evening set	11184 Apr 04 17:57	1°♋56'11		min. Earth dist.	11185 Mar 24 08:51	11°♋03'08	0.68046 AU
	11184 Apr 06 16:14	30°♋		inferior conj	11185 Mar 25 10:59	9°♋36'46	1°41'33
min. Earth dist.	11184 Apr 09 13:42	26°♋17'16	0.68587 AU	minimum elong	11185 Mar 25 08:59	9°♋43'26	1°40'50
inferior conj	11184 Apr 10 03:53	25°♋28'34	2°19'53	morning rise	11185 Mar 30 21:17	3°♋39'35	
minimum elong	11184 Apr 10 01:43	25°♋36'02	2°19'04	direct	11185 Apr 03 13:58	2°♋21'10	
morning rise	11184 Apr 15 09:27	19°♋23'34		morning max el	11185 Apr 10 20:36	6°♋23'20	19°37'20
direct	11184 Apr 19 14:31	17°♋44'03		desc. node	11185 Apr 22 12:11	21°♋22'20	
morning max el	11184 Apr 27 19:21	22°♋25'06	20°45'29	greatest brilliancy	11185 Apr 23 13:43	22°♋55'32	-0.6m
	11184 May 04 07:11	0°♋			11185 Apr 28 07:45	0°♋	
desc. node	11184 May 05 15:24	1°♋46'01		morning set	11185 May 06 12:43	12°♋30'29	
	11184 May 24 23:08	0°♋			11185 May 17 18:15	0°♋	
morning set	11184 May 27 13:23	4°♋00'49		max. Earth dist.	11185 May 18 08:02	0°♋54'28	1.44754 AU
max. Earth dist.	11184 Jun 04 19:21	17°♋05'30	1.43272 AU	superior conj	11185 May 22 20:06	8°♋05'04	-2°12'59
superior conj	11184 Jun 11 13:57	28°♋15'04	-2°00'53	minimum elong	11185 May 22 21:17	8°♋09'48	2°13'33
minimum elong	11184 Jun 11 19:55	28°♋40'09	2°01'07		11185 Jun 05 03:43	0°♌	
	11184 Jun 12 14:53	0°♌		evening rise	11185 Jun 05 15:30	0°♌49'28	
evening rise	11184 Jun 23 15:43	19°♌09'35		asc. node	11185 Jun 15 19:36	17°♌41'07	
asc. node	11184 Jun 28 22:37	28°♌27'54		evening max el	11185 Jun 23 23:22	28°♌38'12	18°11'42
	11184 Jun 29 19:58	0°♌			11185 Jun 25 12:00	0°♌	
evening max el	11184 Jul 10 09:23	15°♌14'21	18°04'05	retrograde	11185 Jun 30 07:56	1°♌59'23	
retrograde	11184 Jul 16 23:07	18°♌37'06		evening set	11185 Jul 03 05:14	1°♌15'10	
evening set	11184 Jul 19 12:19	18°♌06'19			11185 Jul 05 03:24	30°♌	
inferior conj	11184 Jul 26 02:40	13°♌04'27	1°49'31	inferior conj	11185 Jul 09 06:24	25°♌55'13	2°37'04
minimum elong	11184 Jul 26 05:19	12°♌57'55	1°48'11	minimum elong	11185 Jul 09 08:52	25°♌48'21	2°35'53
min. Earth dist.	11184 Jul 29 05:22	10°♌01'35	0.61277 AU	min. Earth dist.	11185 Jul 11 20:59	23°♌02'18	0.63470 AU
morning rise	11184 Aug 01 19:44	7°♌04'35		morning rise	11185 Jul 15 10:55	19°♌41'07	
desc. node	11184 Aug 01 14:35	7°♌13'23		desc. node	11185 Jul 19 11:50	17°♌30'27	
direct	11184 Aug 08 11:14	4°♌49'15		direct	11185 Jul 22 03:33	17°♌06'50	
morning max el	11184 Aug 22 16:56	12°♌49'01	27°56'50	morning max el	11185 Aug 05 01:24	25°♌08'59	27°45'24
	11184 Sep 05 09:12	0°♍			11185 Aug 09 11:39	0°♍	
	11184 Sep 22 15:17	0°♍			11185 Aug 29 20:49	0°♍	
morning set	11184 Sep 24 23:04	4°♍43'18		morning set	11185 Sep 08 18:31	18°♍30'30	
asc. node	11184 Sep 24 23:15	4°♍44'16		asc. node	11185 Sep 11 19:59	24°♍45'17	
max. Earth dist.	11184 Sep 30 16:56	16°♍58'58	1.31670 AU	max. Earth dist.	11185 Sep 13 18:41	28°♍50'25	1.32463 AU
					11185 Sep 14 07:47	0°♍	
superior conj	11184 Oct 02 07:21	20°♍30'20	1°06'55	superior conj	11185 Sep 16 14:36	4°♍54'37	0°45'33
minimum elong	11184 Oct 02 05:07	20°♍17'56	1°06'44	minimum elong	11185 Sep 16 12:40	4°♍44'10	0°45'11
	11184 Oct 06 14:28	0°♎		evening rise	11185 Sep 23 12:23	19°♍54'53	
evening rise	11184 Oct 09 00:58	5°♎18'30			11185 Sep 28 09:10	0°♎	
	11184 Oct 21 21:48	0°♎					

desc. node	11185 Oct 15 09:11	26° \mathbb{M} 17'36		evening max el	11185 Oct 16 16:54	27° \mathbb{M} 37'44	23°20'46	evening rise	11186 Sep 05 20:46	0° $\underline{\mathfrak{A}}$	
	11185 Oct 19 09:37	0° \mathfrak{A}			11185 Oct 19 09:37	0° \mathfrak{A}			11186 Sep 07 22:55	4° $\underline{\mathfrak{A}}$ 26'00	
retrograde	11185 Oct 30 02:22	4° \mathfrak{A} 18'02		evening max el	11186 Sep 21 21:12	0° \mathbb{M}		evening max el	11186 Sep 21 21:12	0° \mathbb{M}	
evening set	11185 Nov 03 09:04	3° \mathfrak{A} 38'16		desc. node	11186 Sep 28 06:51	7° \mathbb{M} 47'37	21°42'01	desc. node	11186 Sep 28 06:51	7° \mathbb{M} 47'37	21°42'01
min. Earth dist.	11185 Nov 10 02:40	0° \mathfrak{A} 29'12	0.55357 AU	retrograde	11186 Oct 02 06:30	11° \mathbb{M} 06'40		retrograde	11186 Oct 02 06:30	11° \mathbb{M} 06'40	
	11185 Nov 10 22:45	30° $\mathfrak{R}\mathbb{M}$		evening set	11186 Oct 10 16:09	13° \mathbb{M} 57'13		evening set	11186 Oct 10 16:09	13° \mathbb{M} 57'13	
inferior conj	11185 Nov 11 18:44	29° \mathbb{M} 30'44	-5°48'30	inferior conj	11186 Oct 13 13:06	13° \mathbb{M} 38'32		inferior conj	11186 Oct 13 13:06	13° \mathbb{M} 38'32	
minimum elong	11185 Nov 11 18:31	29° \mathbb{M} 31'04	5°47'58	minimum elong	11186 Oct 22 12:45	9° \mathbb{M} 41'59	-5°17'56	minimum elong	11186 Oct 22 12:45	9° \mathbb{M} 41'59	-5°17'56
morning rise	11185 Nov 20 05:41	25° \mathbb{M} 39'06		min. Earth dist.	11186 Oct 22 04:42	9° \mathbb{M} 53'15	5°16'08	min. Earth dist.	11186 Oct 22 04:42	9° \mathbb{M} 53'15	5°16'08
direct	11185 Nov 23 03:33	25° \mathbb{M} 18'38		morning rise	11186 Oct 22 09:25	9° \mathbb{M} 46'38	0.54631 AU	morning rise	11186 Oct 22 09:25	9° \mathbb{M} 46'38	0.54631 AU
	11185 Dec 03 12:27	0° \mathfrak{A}		direct	11186 Oct 30 21:27	5° \mathbb{M} 54'08		direct	11186 Oct 30 21:27	5° \mathbb{M} 54'08	
morning max el	11185 Dec 04 00:24	0° \mathfrak{A} 27'41	20°30'08	morning max el	11186 Nov 03 13:05	5° \mathbb{M} 25'07		morning max el	11186 Nov 03 13:05	5° \mathbb{M} 25'07	
asc. node	11185 Dec 08 20:32	6° \mathfrak{A} 01'05		asc. node	11186 Nov 15 21:46	11° \mathbb{M} 17'31	22°04'49	asc. node	11186 Nov 15 21:46	11° \mathbb{M} 17'31	22°04'49
	11185 Dec 22 10:06	0° \mathfrak{B}			11186 Nov 25 17:30	23° \mathbb{M} 48'29			11186 Nov 25 17:30	23° \mathbb{M} 48'29	
morning set	11185 Dec 22 18:44	0° \mathfrak{B} 44'19		morning set	11186 Nov 29 08:48	0° \mathfrak{A}		morning set	11186 Nov 29 08:48	0° \mathfrak{A}	
					11186 Dec 07 05:03	15° \mathfrak{A} 30'53			11186 Dec 07 05:03	15° \mathfrak{A} 30'53	
superior conj	11185 Dec 30 07:07	16° \mathfrak{B} 14'16	1°23'39	superior conj	11186 Dec 14 07:24	0° \mathfrak{B} 36'18	1°34'51	superior conj	11186 Dec 14 07:24	0° \mathfrak{B} 36'18	1°34'51
minimum elong	11185 Dec 30 09:33	16° \mathfrak{B} 26'41	1°24'03	minimum elong	11186 Dec 14 08:48	0° \mathfrak{B} 43'39	1°35'26	minimum elong	11186 Dec 14 08:48	0° \mathfrak{B} 43'39	1°35'26
max. Earth dist.	11186 Jan 04 15:02	26° \mathfrak{B} 47'32	1.36247 AU		11186 Dec 14 00:32	0° \mathfrak{B}		max. Earth dist.	11186 Dec 14 00:32	0° \mathfrak{B}	
	11186 Jan 06 07:28	0° \approx			11186 Dec 18 04:44	8° \mathfrak{B} 40'27	1.34389 AU		11186 Dec 18 04:44	8° \mathfrak{B} 40'27	1.34389 AU
evening rise	11186 Jan 08 11:40	4° \approx 02'47		evening rise	11186 Dec 22 13:27	17° \mathfrak{B} 19'28		evening rise	11186 Dec 22 13:27	17° \mathfrak{B} 19'28	
desc. node	11186 Jan 11 07:52	9° \approx 10'08		desc. node	11186 Dec 29 04:47	29° \mathfrak{B} 32'44		desc. node	11186 Dec 29 04:47	29° \mathfrak{B} 32'44	
	11186 Jan 24 01:49	0° \mathfrak{H}			11186 Dec 29 11:01	0° \approx			11186 Dec 29 11:01	0° \approx	
evening max el	11186 Feb 13 00:14	25° \mathfrak{H} 25'58	26°01'56	evening max el	11187 Jan 18 09:55	0° \mathfrak{H}		evening max el	11187 Jan 18 09:55	0° \mathfrak{H}	
	11186 Feb 18 11:31	0° \mathfrak{Y}			11187 Jan 26 13:45	9° \mathfrak{H} 07'02	26°55'57		11187 Jan 26 13:45	9° \mathfrak{H} 07'02	26°55'57
retrograde	11186 Feb 25 15:37	2° \mathfrak{Y} 38'29		retrograde	11187 Jan 26 13:45	9° \mathfrak{H} 07'02	26°55'57	retrograde	11187 Jan 26 13:45	9° \mathfrak{H} 07'02	26°55'57
evening set	11186 Mar 03 18:45	0° \mathfrak{Y} 08'51		evening set	11187 Feb 08 19:58	16° \mathfrak{H} 29'39		evening set	11187 Feb 08 19:58	16° \mathfrak{H} 29'39	
	11186 Mar 03 22:58	30° $\mathfrak{R}\mathfrak{H}$		min. Earth dist.	11187 Feb 15 09:37	13° \mathfrak{H} 56'06		min. Earth dist.	11187 Feb 15 09:37	13° \mathfrak{H} 56'06	
asc. node	11186 Mar 06 18:49	27° \mathfrak{H} 07'51		inferior conj	11187 Feb 19 09:23	10° \mathfrak{H} 01'28	0.65756 AU	inferior conj	11187 Feb 19 09:23	10° \mathfrak{H} 01'28	0.65756 AU
min. Earth dist.	11186 Mar 08 00:09	25° \mathfrak{H} 40'11	0.67093 AU	minimum elong	11187 Feb 21 11:28	7° \mathfrak{H} 37'20	-0°03'49	minimum elong	11187 Feb 21 11:28	7° \mathfrak{H} 37'20	-0°03'49
inferior conj	11186 Mar 09 14:16	23° \mathfrak{H} 41'30	0°53'41	transit middle	11187 Feb 21 11:34	7° \mathfrak{H} 37'03	0°03'28	transit middle	11187 Feb 21 11:34	7° \mathfrak{H} 37'03	0°03'28
minimum elong	11186 Mar 09 12:58	23° \mathfrak{H} 45'33	0°53'19	transit begin	11187 Feb 21 11:34	7° \mathfrak{H} 37'03	0°03'28	transit begin	11187 Feb 21 11:34	7° \mathfrak{H} 37'03	0°03'28
morning rise	11186 Mar 15 07:51	17° \mathfrak{H} 53'59		transit end	11187 Feb 21 08:40	7° \mathfrak{H} 45'25		transit end	11187 Feb 21 08:40	7° \mathfrak{H} 45'25	
direct	11186 Mar 18 13:16	16° \mathfrak{H} 54'43		asc. node	11187 Feb 21 14:28	7° \mathfrak{H} 28'41		asc. node	11187 Feb 21 14:28	7° \mathfrak{H} 28'41	
morning max el	11186 Mar 25 05:24	20° \mathfrak{H} 30'51	18°44'47	morning rise	11187 Feb 21 16:08	7° \mathfrak{H} 23'53		morning rise	11187 Feb 21 16:08	7° \mathfrak{H} 23'53	
	11186 Apr 01 19:27	0° \mathfrak{Y}		direct	11187 Feb 27 14:48	2° \mathfrak{H} 01'37		direct	11187 Feb 27 14:48	2° \mathfrak{H} 01'37	
desc. node	11186 Apr 09 08:57	11° \mathfrak{Y} 22'31		morning max el	11187 Mar 02 10:17	1° \mathfrak{H} 18'32		morning max el	11187 Mar 02 10:17	1° \mathfrak{H} 18'32	
morning set	11186 Apr 16 00:01	21° \mathfrak{Y} 41'48			11187 Mar 08 19:51	4° \mathfrak{H} 41'06	18°08'46		11187 Mar 08 19:51	4° \mathfrak{H} 41'06	18°08'46
	11186 Apr 21 07:35	0° \mathfrak{B}		desc. node	11187 Mar 26 05:06	0° \mathfrak{Y}		desc. node	11187 Mar 26 05:06	0° \mathfrak{Y}	
max. Earth dist.	11186 May 01 02:06	15° \mathfrak{B} 15'55	1.45568 AU	morning set	11187 Mar 27 05:39	1° \mathfrak{Y} 39'25		morning set	11187 Mar 27 05:39	1° \mathfrak{Y} 39'25	
					11187 Mar 27 14:17	2° \mathfrak{Y} 14'22			11187 Mar 27 14:17	2° \mathfrak{Y} 14'22	
superior conj	11186 May 02 07:23	17° \mathfrak{B} 10'33	-2°05'58	superior conj	11187 Apr 11 14:42	26° \mathfrak{Y} 12'19	-1°39'26	superior conj	11187 Apr 11 14:42	26° \mathfrak{Y} 12'19	-1°39'26
minimum elong	11186 May 02 01:06	16° \mathfrak{B} 45'58	2°06'07	minimum elong	11187 Apr 11 05:14	25° \mathfrak{Y} 35'11	1°38'44	minimum elong	11187 Apr 11 05:14	25° \mathfrak{Y} 35'11	1°38'44
	11186 May 10 10:41	0° \mathbb{I}		max. Earth dist.	11187 Apr 13 22:06	29° \mathfrak{Y} 49'28	1.45639 AU	max. Earth dist.	11187 Apr 13 22:06	29° \mathfrak{Y} 49'28	1.45639 AU
evening rise	11186 May 17 15:37	11° \mathbb{I} 30'02			11187 Apr 14 00:47	0° \mathfrak{B}			11187 Apr 14 00:47	0° \mathfrak{B}	
greatest brilliancy	11186 May 24 08:01	22° \mathbb{I} 13'26	-0.9m	evening rise	11187 Apr 17 17:10	21° \mathfrak{B} 17'35		evening rise	11187 Apr 17 17:10	21° \mathfrak{B} 17'35	
	11186 May 29 06:54	0° \mathfrak{B}			11187 May 03 08:05	0° \mathbb{I}			11187 May 03 08:05	0° \mathbb{I}	
asc. node	11186 Jun 02 16:40	6° \mathfrak{B} 26'48		greatest brilliancy	11187 May 09 21:44	10° \mathbb{I} 02'13	-0.7m	greatest brilliancy	11187 May 09 21:44	10° \mathbb{I} 02'13	-0.7m
evening max el	11186 Jun 07 11:46	12° \mathfrak{B} 14'14	18°37'16	asc. node	11187 May 20 13:49	24° \mathbb{I} 35'05		asc. node	11187 May 20 13:49	24° \mathbb{I} 35'05	
retrograde	11186 Jun 14 00:35	15° \mathfrak{B} 47'35		evening max el	11187 May 21 20:10	25° \mathbb{I} 55'37	19°19'53	evening max el	11187 May 21 20:10	25° \mathbb{I} 55'37	19°19'53
evening set	11186 Jun 17 06:00	14° \mathfrak{B} 48'28		retrograde	11187 May 28 21:35	29° \mathbb{I} 53'47		retrograde	11187 May 28 21:35	29° \mathbb{I} 53'47	
inferior conj	11186 Jun 22 21:51	9° \mathfrak{B} 12'04	3°04'34	evening set	11187 Jun 01 11:32	28° \mathbb{I} 39'00		evening set	11187 Jun 01 11:32	28° \mathbb{I} 39'00	
minimum elong	11186 Jun 22 23:23	9° \mathfrak{B} 07'21	3°03'42	inferior conj	11187 Jun 06 21:31	22° \mathbb{I} 47'49	3°15'55	inferior conj	11187 Jun 06 21:31	22° \mathbb{I} 47'49	3°15'55
min. Earth dist.	11186 Jun 24 21:45	6° \mathfrak{B} 46'17	0.65380 AU	minimum elong	11187 Jun 06 21:54	22° \mathbb{I} 46'31	3°15'16	minimum elong	11187 Jun 06 21:54	22° \mathbb{I} 46'31	3°15'16
morning rise	11186 Jun 28 15:55	2° \mathfrak{B} 51'32		min. Earth dist.	11187 Jun 08 06:30	21° \mathbb{I} 00'03	0.66892 AU	min. Earth dist.	11187 Jun 08 06:30	21° \mathbb{I} 00'03	0.66892 AU
direct	11186 Jul 05 03:44	0° \mathfrak{B} 08'53		morning rise	11187 Jun 12 07:50	16° \mathbb{I} 26'13		morning rise	11187 Jun 12 07:50	16° \mathbb{I} 26'13	
desc. node	11186 Jul 06 09:00	0° \mathfrak{B} 14'02		direct	11187 Jun 18 10:32	13° \mathbb{I} 45'29		direct	11187 Jun 18 10:32	13° \mathbb{I} 45'29	
morning max el	11186 Jul 18 12:09	8° \mathfrak{B} 01'43	27°00'54	desc. node	11187 Jun 23 06:07	15° \mathbb{I} 06'18		desc. node	11187 Jun 23 06:07	15° \mathbb{I} 06'18	
	11186 Aug 04 13:40	0° \mathfrak{Q}		morning max el	11187 Jun 30 22:53	21° \mathbb{I} 14'46	25°51'28	morning max el	11187 Jun 30 22:53	21° \mathbb{I} 14'46	25°51'28
	11186 Aug 22 05:34	0° \mathfrak{M}			11187 Jul 08 12:54	0° \mathfrak{B}			11187 Jul 08 12:54	0° \mathfrak{B}	
morning set	11186 Aug 23 04:00	1° \mathfrak{M} 47'17			11187 Jul 28 18:34	0° \mathfrak{Q}			11187 Jul 28 18:34	0° \mathfrak{Q}	
max. Earth dist.	11186 Aug 27 11:35	10° \mathfrak{M} 18'33	1.33767 AU	morning set	11187 Aug 05 23:52	14° \mathfrak{Q} 24'16		morning set	11187 Aug 05 23:52	14° \mathfrak{Q} 24'16	
asc. node	11186 Aug 29 16:45	14° \mathfrak{M} 50'37		max. Earth dist.	11187 Aug 09 18:03	21° \mathfrak{Q} 26'53	1.35542 AU	max. Earth dist.	11187 Aug 09 18:03	21° \mathfrak{Q} 26'53	1.35542 AU
					11187 Aug 14 02:54	0° \mathfrak{M}			11187 Aug 14 02:54	0° \mathfrak{M}	
superior conj	11186 Aug 31 16:29	18° \mathfrak{M} 59'36	0°19'22	superior conj	11187 Aug 15 10:22	2° \mathfrak{M} 38'11	-0°10'58	superior conj	11187 Aug 15 10:22	2° \mathfrak{M} 38'11	-0°10'58
minimum elong	11186 Aug 31 15:30	18° \mathfrak{M} 54'26	0°18'59								






























































































































minimum elong	11187 Aug 15 11:02	2° \mathbb{M} 41'35	0°11'11	superior conj	11188 Jul 28 16:58	15° Ω 42'30	-0°44'03
behind sun begin	11187 Aug 15 06:34	2° \mathbb{M} 19'03		minimum elong	11188 Jul 28 19:54	15° Ω 56'39	0°44'02
behind sun end	11187 Aug 15 15:29	3° \mathbb{M} 04'07		asc. node	11188 Aug 02 10:20	24° Ω 58'05	
asc. node	11187 Aug 16 13:32	4° \mathbb{M} 56'09			11188 Aug 04 22:56	0° \mathbb{M}	
evening rise	11187 Aug 23 06:28	18° \mathbb{M} 45'45		evening rise	11188 Aug 06 08:32	2° \mathbb{M} 47'25	
	11187 Aug 28 21:53	0° $\underline{\Omega}$			11188 Aug 22 23:58	0° $\underline{\Omega}$	
evening max el	11187 Sep 10 08:24	18° $\underline{\Omega}$ 30'12	20°17'31	evening max el	11188 Aug 22 23:53	29° \mathbb{M} 59'47	19°13'23
desc. node	11187 Sep 19 03:49	23° $\underline{\Omega}$ 42'33		retrograde	11188 Sep 01 04:03	4° $\underline{\Omega}$ 33'48	
retrograde	11187 Sep 21 04:49	23° $\underline{\Omega}$ 53'40		evening set	11188 Sep 03 00:17	4° $\underline{\Omega}$ 23'31	
evening set	11187 Sep 23 05:06	23° $\underline{\Omega}$ 43'21		desc. node	11188 Sep 05 01:10	3° $\underline{\Omega}$ 49'52	
inferior conj	11187 Oct 02 06:22	19° $\underline{\Omega}$ 45'46	-3°53'27	inferior conj	11188 Sep 11 13:18	0° $\underline{\Omega}$ 13'09	-2°01'46
minimum elong	11187 Oct 01 20:45	19° $\underline{\Omega}$ 59'56	3°50'15	minimum elong	11188 Sep 11 07:57	0° $\underline{\Omega}$ 22'05	1°59'45
min. Earth dist.	11187 Oct 03 17:59	18° $\underline{\Omega}$ 53'17	0.54828 AU		11188 Sep 11 21:09	30° \mathbb{R} \mathbb{M}	
morning rise	11187 Oct 10 11:37	15° $\underline{\Omega}$ 40'20		min. Earth dist.	11188 Sep 14 06:19	28° \mathbb{M} 24'57	0.55945 AU
direct	11187 Oct 14 22:29	14° $\underline{\Omega}$ 57'33		morning rise	11188 Sep 19 12:46	25° \mathbb{M} 34'06	
morning max el	11187 Oct 28 10:25	21° $\underline{\Omega}$ 32'24	23°51'42	direct	11188 Sep 24 19:25	24° \mathbb{M} 30'00	
	11187 Nov 04 18:10	0° \mathbb{M}			11188 Oct 07 01:40	0° $\underline{\Omega}$	
asc. node	11187 Nov 12 14:25	12° \mathbb{M} 20'15		morning max el	11188 Oct 08 21:57	1° $\underline{\Omega}$ 39'56	25°35'09
morning set	11187 Nov 21 16:49	0° \mathbb{M} 18'55			11188 Oct 28 17:23	0° \mathbb{M}	
	11187 Nov 21 13:16	0° \mathbb{M}		asc. node	11188 Oct 29 11:16	1° \mathbb{M} 24'28	
				morning set	11188 Nov 05 04:16	15° \mathbb{M} 02'24	
superior conj	11187 Nov 28 13:47	15° \mathbb{M} 14'07	1°39'18				
minimum elong	11187 Nov 28 14:00	15° \mathbb{M} 15'18	1°39'55	superior conj	11188 Nov 11 23:46	29° \mathbb{M} 59'21	1°37'33
max. Earth dist.	11187 Dec 01 02:14	20° \mathbb{M} 39'34	1.32938 AU	minimum elong	11188 Nov 11 22:54	29° \mathbb{M} 54'34	1°38'03
	11187 Dec 05 13:56	0° \mathbb{Z}			11188 Nov 11 23:53	0° \mathbb{M}	
evening rise	11187 Dec 06 03:16	1° \mathbb{Z} 07'15		max. Earth dist.	11188 Nov 13 06:37	2° \mathbb{M} 49'26	1.31954 AU
desc. node	11187 Dec 16 01:45	19° \mathbb{Z} 39'29		evening rise	11188 Nov 19 01:56	15° \mathbb{M} 17'01	
	11187 Dec 22 09:57	0° \approx			11188 Nov 26 14:09	0° \mathbb{Z}	
evening max el	11188 Jan 09 02:18	22° \approx 29'19	27°26'47	desc. node	11188 Dec 01 22:46	9° \mathbb{Z} 22'38	
retrograde	11188 Jan 22 18:04	29° \approx 52'59			11188 Dec 16 11:10	0° \approx	
evening set	11188 Jan 29 15:14	27° \approx 22'15		evening max el	11188 Dec 21 12:04	5° \approx 20'05	27°28'09
min. Earth dist.	11188 Feb 02 10:34	23° \approx 59'08	0.64075 AU	retrograde	11189 Jan 04 08:47	12° \approx 38'09	
inferior conj	11188 Feb 05 00:04	21° \approx 18'36	-1°10'28	evening set	11189 Jan 11 08:41	10° \approx 18'46	
minimum elong	11188 Feb 05 02:17	21° \approx 12'48	1°09'04	min. Earth dist.	11189 Jan 15 02:05	7° \approx 22'03	0.62119 AU
asc. node	11188 Feb 08 13:23	17° \approx 53'23		inferior conj	11189 Jan 18 01:01	4° \approx 37'08	-2°24'36
morning rise	11188 Feb 11 15:20	15° \approx 57'13		minimum elong	11189 Jan 18 05:54	4° \approx 25'44	2°22'06
direct	11188 Feb 14 02:35	15° \approx 26'35			11189 Jan 24 02:36	30° \mathbb{R} \mathbb{Z}	
morning max el	11188 Feb 20 13:14	18° \approx 46'45	17°49'45	morning rise	11189 Jan 25 05:41	29° \mathbb{Z} 32'52	
	11188 Feb 28 21:01	0° \mathbb{H}		asc. node	11189 Jan 25 10:36	29° \mathbb{Z} 29'03	
morning set	11188 Mar 08 08:43	14° \mathbb{H} 09'03		direct	11189 Jan 27 10:59	29° \mathbb{Z} 10'55	
desc. node	11188 Mar 13 02:21	22° \mathbb{H} 08'17			11189 Jan 30 17:35	0° \approx	
	11188 Mar 17 20:04	0° \mathbb{Y}		morning max el	11189 Feb 03 06:22	2° \approx 38'28	17°48'26
				morning set	11189 Feb 19 01:41	27° \approx 07'43	
superior conj	11188 Mar 21 11:59	5° \mathbb{Y} 58'02	-1°00'22		11189 Feb 20 16:25	0° \mathbb{H}	
minimum elong	11188 Mar 21 05:30	5° \mathbb{Y} 31'54	0°59'29	desc. node	11189 Feb 27 23:00	12° \mathbb{H} 44'30	
max. Earth dist.	11188 Mar 26 17:06	14° \mathbb{Y} 18'00	1.44975 AU				
	11188 Apr 05 19:11	0° \mathbb{B}		superior conj	11189 Mar 02 08:55	16° \mathbb{H} 51'18	-0°18'20
evening rise	11188 Apr 06 05:30	0° \mathbb{B} 39'33		minimum elong	11189 Mar 02 07:11	16° \mathbb{H} 43'55	0°17'51
	11188 Apr 26 01:47	0° \mathbb{H}		max. Earth dist.	11189 Mar 09 09:06	28° \mathbb{H} 26'49	1.43653 AU
evening max el	11188 May 03 23:11	9° \mathbb{H} 39'08	20°17'55		11189 Mar 10 08:12	0° \mathbb{Y}	
asc. node	11188 May 06 10:59	11° \mathbb{H} 54'11		evening rise	11189 Mar 16 20:01	10° \mathbb{Y} 15'35	
retrograde	11188 May 11 20:19	14° \mathbb{H} 12'16			11189 Mar 29 22:48	0° \mathbb{B}	
evening set	11188 May 15 19:31	12° \mathbb{H} 41'37		evening max el	11189 Apr 16 20:39	23° \mathbb{B} 23'57	21°28'23
inferior conj	11188 May 21 02:35	6° \mathbb{H} 37'22	3°14'03	asc. node	11189 Apr 23 08:12	28° \mathbb{B} 09'43	
minimum elong	11188 May 21 01:55	6° \mathbb{H} 39'40	3°13'26	retrograde	11189 Apr 25 18:40	28° \mathbb{B} 38'22	
min. Earth dist.	11188 May 21 21:23	5° \mathbb{H} 33'09	0.67957 AU	evening set	11189 Apr 30 04:09	26° \mathbb{B} 52'00	
morning rise	11188 May 26 08:02	0° \mathbb{H} 18'08		inferior conj	11189 May 05 10:46	20° \mathbb{B} 36'41	3°00'56
	11188 May 26 16:18	30° \mathbb{R} \mathbb{B}		minimum elong	11189 May 05 09:15	20° \mathbb{B} 41'58	3°00'14
direct	11188 May 31 23:05	27° \mathbb{B} 48'08		min. Earth dist.	11189 May 05 16:14	20° \mathbb{B} 17'38	0.68559 AU
	11188 Jun 06 22:55	0° \mathbb{H}		morning rise	11189 May 10 14:08	14° \mathbb{B} 22'00	
desc. node	11188 Jun 09 03:08	1° \mathbb{H} 38'33		direct	11189 May 15 16:12	12° \mathbb{B} 09'07	
morning max el	11188 Jun 12 08:40	4° \mathbb{H} 38'22	24°26'49	morning max el	11189 May 25 18:54	18° \mathbb{B} 08'58	22°57'00
	11188 Jul 01 20:40	0° \mathbb{B}		desc. node	11189 May 27 00:04	19° \mathbb{B} 24'44	
morning set	11188 Jul 18 01:31	26° \mathbb{B} 09'43			11189 Jun 04 16:15	0° \mathbb{H}	
	11188 Jul 20 05:48	0° Ω			11189 Jun 24 23:00	0° \mathbb{B}	
max. Earth dist.	11188 Jul 21 16:29	2° Ω 35'29	1.37688 AU	morning set	11189 Jun 29 03:55	6° \mathbb{B} 50'55	
				max. Earth dist.	11189 Jul 03 13:39	14° \mathbb{B} 16'27	1.39994 AU

superior conj	11189 Jul 11 08:21	28° Ω 03'29	-1°17'31	max. Earth dist.	11190 Jun 15 15:57	26° Π 50'12	1.42180 AU
minimum elong	11189 Jul 11 13:42	28° Ω 27'54	1°17'21		11190 Jun 17 13:46	0° Ω	
	11189 Jul 12 09:45	0° Ω					
asc. node	11189 Jul 20 07:09	14° Ω 52'53		superior conj	11190 Jun 23 03:51	9° Ω 29'27	-1°47'27
evening rise	11189 Jul 21 02:07	16° Ω 23'24		minimum elong	11190 Jun 23 10:28	9° Ω 58'05	1°47'27
	11189 Jul 28 10:44	0° Π		evening rise	11190 Jul 04 07:11	29° Ω 22'51	
evening max el	11189 Aug 06 02:45	12° Π 13'53	18°30'33		11190 Jul 04 15:21	0° Ω	
retrograde	11189 Aug 13 21:45	16° Π 08'28		asc. node	11190 Jul 07 04:02	4° Ω 35'30	
evening set	11189 Aug 15 22:55	15° Π 53'05		evening max el	11190 Jul 20 12:50	25° Ω 01'57	18°08'07
desc. node	11189 Aug 22 22:30	11° Π 58'58		retrograde	11190 Jul 27 10:00	28° Ω 32'08	
inferior conj	11189 Aug 23 17:09	11° Π 22'49	-0°14'24	evening set	11190 Jul 29 18:41	28° Ω 07'48	
minimum elong	11189 Aug 23 16:35	11° Π 23'55	0°14'27	inferior conj	11190 Aug 05 18:18	23° Ω 16'43	1°11'31
transit middle	11189 Aug 23 16:35	11° Π 23'55	0°14'27	minimum elong	11190 Aug 05 20:24	23° Ω 11'55	1°10'21
transit begin	11189 Aug 23 14:59	11° Π 27'03		min. Earth dist.	11190 Aug 09 01:11	20° Ω 18'25	0.59966 AU
transit end	11189 Aug 23 18:11	11° Π 20'48		desc. node	11190 Aug 09 19:49	19° Ω 39'04	
min. Earth dist.	11189 Aug 27 00:03	8° Π 49'52	0.57767 AU	morning rise	11190 Aug 12 19:05	17° Ω 29'50	
morning rise	11189 Aug 31 06:46	6° Π 06'47		direct	11190 Aug 19 06:44	15° Ω 29'43	
direct	11189 Sep 06 06:44	4° Π 35'17		morning max el	11190 Sep 02 14:37	23° Ω 22'18	27°46'23
morning max el	11189 Sep 20 14:36	12° Π 10'24	26°57'36		11190 Sep 08 13:11	0° Π	
	11189 Oct 04 13:42	0° Ω			11190 Sep 27 18:42	0° Ω	
asc. node	11189 Oct 16 08:04	20° Ω 52'42		asc. node	11190 Oct 03 04:49	10° Ω 37'40	
morning set	11189 Oct 20 13:43	29° Ω 36'56		morning set	11190 Oct 04 19:25	13° Ω 57'29	
	11189 Oct 20 18:03	0° Π		max. Earth dist.	11190 Oct 11 00:11	27° Ω 22'28	1.31453 AU
superior conj	11189 Oct 27 11:23	14° Π 45'57	1°29'58	superior conj	11190 Oct 11 22:47	29° Ω 27'58	1°16'53
minimum elong	11189 Oct 27 09:41	14° Π 36'28	1°30'14	minimum elong	11190 Oct 11 20:37	29° Ω 15'52	1°16'51
max. Earth dist.	11189 Oct 27 15:07	15° Π 06'44	1.31460 AU		11190 Oct 12 04:33	0° Π	
evening rise	11189 Nov 03 06:55	29° Π 41'57		evening rise	11190 Oct 18 15:56	14° Π 15'31	
	11189 Nov 03 10:19	0° Ω			11190 Oct 26 10:53	0° Ω	
desc. node	11189 Nov 18 19:53	28° Ω 32'46		desc. node	11190 Nov 05 17:06	16° Ω 57'02	
	11189 Nov 19 18:23	0° Ω		evening max el	11190 Nov 15 12:54	28° Ω 41'59	25°49'52
evening max el	11189 Dec 03 16:28	17° Ω 27'06	26°55'42		11190 Nov 16 23:16	0° Ω	
retrograde	11189 Dec 17 14:44	24° Ω 36'33		retrograde	11190 Nov 29 10:23	5° Ω 43'20	
evening set	11189 Dec 24 10:18	22° Ω 37'42		evening set	11190 Dec 05 15:36	4° Ω 12'57	
min. Earth dist.	11189 Dec 28 06:52	19° Ω 58'25	0.60008 AU	min. Earth dist.	11190 Dec 10 01:25	1° Ω 36'55	0.57922 AU
inferior conj	11189 Dec 31 10:53	17° Ω 23'46	-3°41'47		11190 Dec 12 08:33	30° Ω 57'15	
minimum elong	11189 Dec 31 18:17	17° Ω 08'41	3°38'41	inferior conj	11190 Dec 13 02:12	29° Ω 28'36	-4°52'36
morning rise	11190 Jan 08 05:00	12° Ω 39'46		minimum elong	11190 Dec 13 10:13	29° Ω 14'24	4°50'05
direct	11190 Jan 10 07:41	12° Ω 22'48		morning rise	11190 Dec 21 07:19	25° Ω 07'15	
asc. node	11190 Jan 12 07:47	12° Ω 38'44		direct	11190 Dec 23 12:10	24° Ω 51'54	
morning max el	11190 Jan 17 19:50	16° Ω 06'53	18°06'02	asc. node	11190 Dec 30 04:54	27° Ω 24'23	
	11190 Jan 27 12:20	0° \approx		morning max el	11191 Jan 01 01:52	29° Ω 01'49	18°44'22
morning set	11190 Feb 02 10:55	10° \approx 51'35		morning set	11191 Jan 02 00:40	0° Ω	
					11191 Jan 17 07:25	25° Ω 05'50	
superior conj	11190 Feb 12 06:04	28° \approx 52'27	0°19'48		11191 Jan 19 19:41	0° \approx	
minimum elong	11190 Feb 12 07:37	28° \approx 59'22	0°19'56	superior conj	11191 Jan 25 23:25	11° \approx 50'25	0°50'47
	11190 Feb 12 21:15	0° Ω		minimum elong	11191 Jan 26 02:20	12° \approx 04'05	0°50'54
desc. node	11190 Feb 14 19:41	3° Ω 24'32		desc. node	11191 Feb 01 16:27	24° \approx 05'11	
max. Earth dist.	11190 Feb 19 21:04	12° Ω 03'53	1.41815 AU	max. Earth dist.	11191 Feb 02 04:59	25° \approx 00'23	1.39663 AU
evening rise	11190 Feb 25 01:52	20° Ω 36'05			11191 Feb 05 02:12	0° Ω	
	11190 Mar 03 01:12	0° Ω		evening rise	11191 Feb 06 04:47	1° Ω 52'51	
	11190 Mar 24 06:09	0° Ω			11191 Feb 24 08:08	0° Ω	
evening max el	11190 Mar 30 13:34	7° Ω 10'21	22°46'42	evening max el	11191 Mar 13 03:47	20° Ω 59'31	24°07'05
retrograde	11190 Apr 09 15:04	13° Ω 06'59		retrograde	11191 Mar 24 08:20	27° Ω 33'52	
asc. node	11190 Apr 10 05:28	13° Ω 05'16		asc. node	11191 Mar 28 02:46	26° Ω 28'18	
evening set	11190 Apr 14 11:45	11° Ω 05'37		evening set	11191 Mar 29 16:52	25° Ω 19'04	
inferior conj	11190 Apr 19 19:59	4° Ω 41'42	2°37'40	min. Earth dist.	11191 Apr 03 09:03	19° Ω 55'29	0.68412 AU
minimum elong	11190 Apr 19 17:56	4° Ω 48'48	2°36'52	inferior conj	11191 Apr 04 04:25	18° Ω 49'58	2°04'48
min. Earth dist.	11190 Apr 19 12:49	5° Ω 06'36	0.68706 AU	minimum elong	11191 Apr 04 02:15	18° Ω 57'18	2°03'59
	11190 Apr 23 11:52	30° Ω 57'15		morning rise	11191 Apr 09 11:42	12° Ω 48'23	
morning rise	11190 Apr 24 24:00	28° Ω 33'01		direct	11191 Apr 13 11:24	11° Ω 18'05	
direct	11190 Apr 29 12:42	26° Ω 40'56		morning max el	11191 Apr 21 05:51	15° Ω 40'46	20°14'47
	11190 May 06 10:18	0° Ω		desc. node	11191 Apr 30 17:44	27° Ω 23'02	
morning max el	11190 May 08 08:55	1° Ω 48'30	21°30'46		11191 May 02 14:25	0° Ω	
desc. node	11190 May 13 20:56	8° Ω 04'14		morning set	11191 May 19 07:21	24° Ω 57'37	
	11190 May 29 13:03	0° Π			11191 May 22 13:18	0° Π	
morning set	11190 Jun 09 03:57	16° Π 20'23					

max. Earth dist.	11191 May 29 01:14	10° Π 15'41	1.43977 AU		11192 Apr 25 00:41	0° \mathcal{B}	
				morning set	11192 Apr 27 08:56	3° \mathcal{B} 36'51	
superior conj	11191 Jun 03 23:45	19° Π 53'35	-2°08'02	max. Earth dist.	11192 May 10 16:06	24° \mathcal{B} 18'40	1.45186 AU
minimum elong	11191 Jun 04 04:18	20° Π 12'16	2°08'28				
	11191 Jun 10 01:04	0° \mathcal{C}		superior conj	11192 May 13 20:36	29° \mathcal{B} 20'33	-2°12'32
evening rise	11191 Jun 16 19:07	11° \mathcal{C} 35'05		minimum elong	11192 May 13 18:35	29° \mathcal{B} 12'32	2°13'03
asc. node	11191 Jun 24 01:00	24° \mathcal{C} 01'12			11192 May 14 06:33	0° Π	
	11191 Jun 27 18:03	0° \mathcal{Q}		evening rise	11192 May 28 09:06	22° Π 49'35	
evening max el	11191 Jul 04 02:19	8° \mathcal{Q} 14'49	18°05'01		11192 Jun 01 17:31	0° \mathcal{C}	
retrograde	11191 Jul 10 12:45	11° \mathcal{Q} 35'30		asc. node	11192 Jun 09 22:02	13° \mathcal{C} 03'32	
evening set	11191 Jul 13 05:20	10° \mathcal{Q} 59'16		evening max el	11192 Jun 16 15:53	21° \mathcal{C} 43'59	18°20'26
inferior conj	11191 Jul 19 13:34	5° \mathcal{Q} 49'14	2°12'24	retrograde	11192 Jun 23 01:22	25° \mathcal{C} 09'04	
minimum elong	11191 Jul 19 16:17	5° \mathcal{Q} 42'10	2°11'05	evening set	11192 Jun 26 01:58	24° \mathcal{C} 18'50	
min. Earth dist.	11191 Jul 22 11:31	2° \mathcal{Q} 48'13	0.62230 AU	inferior conj	11192 Jul 01 22:44	18° \mathcal{C} 51'48	2°50'55
	11191 Jul 25 15:15	30° \mathcal{R} \mathcal{C}		minimum elong	11192 Jul 02 00:52	18° \mathcal{C} 45'36	2°49'53
morning rise	11191 Jul 26 01:04	29° \mathcal{C} 41'53		min. Earth dist.	11192 Jul 04 07:18	16° \mathcal{C} 08'21	0.64319 AU
desc. node	11191 Jul 27 17:06	28° \mathcal{C} 38'38		morning rise	11192 Jul 07 22:27	12° \mathcal{C} 33'52	
direct	11191 Aug 01 17:39	27° \mathcal{C} 17'36		desc. node	11192 Jul 13 14:19	9° \mathcal{C} 57'41	
	11191 Aug 09 11:50	0° \mathcal{Q}		direct	11192 Jul 14 13:37	9° \mathcal{C} 54'28	
morning max el	11191 Aug 15 20:58	5° \mathcal{Q} 19'51	27°56'32	morning max el	11192 Jul 28 06:49	17° \mathcal{C} 55'19	27°30'08
	11191 Sep 03 10:37	0° \mathcal{P}			11192 Aug 07 09:41	0° \mathcal{Q}	
morning set	11191 Sep 18 19:21	27° \mathcal{P} 58'51			11192 Aug 26 08:09	0° \mathcal{P}	
	11191 Sep 19 18:58	0° \mathcal{L}		morning set	11192 Sep 01 11:01	11° \mathcal{P} 34'25	
asc. node	11191 Sep 20 01:34	0° \mathcal{L} 34'09		asc. node	11192 Sep 05 22:19	20° \mathcal{P} 37'29	
max. Earth dist.	11191 Sep 24 05:46	9° \mathcal{L} 25'44	1.31944 AU	max. Earth dist.	11192 Sep 06 03:59	21° \mathcal{P} 06'58	1.32945 AU
superior conj	11191 Sep 26 08:08	14° \mathcal{L} 00'18	0°58'28	superior conj	11192 Sep 09 13:25	28° \mathcal{P} 17'11	0°35'01
minimum elong	11191 Sep 26 05:57	13° \mathcal{L} 48'19	0°58'12	minimum elong	11192 Sep 09 11:48	28° \mathcal{P} 08'33	0°34'37
evening rise	11191 Oct 03 03:02	28° \mathcal{L} 52'16			11192 Sep 10 08:35	0° \mathcal{L}	
	11191 Oct 03 15:40	0° \mathcal{M}		evening rise	11192 Sep 16 14:18	13° \mathcal{L} 26'55	
	11191 Oct 20 07:28	0° \mathcal{J}			11192 Sep 24 21:11	0° \mathcal{M}	
desc. node	11191 Oct 23 14:22	4° \mathcal{J} 17'30		evening max el	11192 Oct 08 12:21	19° \mathcal{M} 15'33	22°37'53
evening max el	11191 Oct 28 01:30	9° \mathcal{J} 09'19	24°18'42	desc. node	11192 Oct 09 11:41	20° \mathcal{M} 10'29	
retrograde	11191 Nov 10 18:17	16° \mathcal{J} 00'51		retrograde	11192 Oct 21 13:55	25° \mathcal{M} 45'34	
evening set	11191 Nov 15 20:48	15° \mathcal{J} 03'23		evening set	11192 Oct 25 05:13	25° \mathcal{M} 16'35	
min. Earth dist.	11191 Nov 21 12:31	12° \mathcal{J} 11'37	0.56127 AU	min. Earth dist.	11192 Nov 01 20:13	21° \mathcal{M} 51'01	0.54934 AU
inferior conj	11191 Nov 23 20:56	10° \mathcal{J} 44'18	-5°40'17	inferior conj	11192 Nov 02 21:39	21° \mathcal{M} 14'53	-5°42'56
minimum elong	11191 Nov 24 01:10	10° \mathcal{J} 37'44	5°39'17	minimum elong	11192 Nov 02 17:45	21° \mathcal{M} 20'26	5°42'09
morning rise	11191 Dec 02 07:38	6° \mathcal{J} 44'12		morning rise	11192 Nov 11 07:52	17° \mathcal{M} 26'54	
direct	11191 Dec 04 21:05	6° \mathcal{J} 26'56		direct	11192 Nov 14 12:40	17° \mathcal{M} 03'28	
morning max el	11191 Dec 14 20:39	11° \mathcal{J} 12'10	19°45'01	morning max el	11192 Nov 26 01:44	22° \mathcal{M} 31'21	21°08'07
asc. node	11191 Dec 17 01:58	13° \mathcal{J} 33'13			11192 Dec 02 09:16	0° \mathcal{J}	
	11191 Dec 27 13:53	0° \mathcal{Z}		asc. node	11192 Dec 02 22:58	0° \mathcal{J} 49'16	
morning set	11192 Jan 01 11:23	9° \mathcal{Z} 38'26		morning set	11192 Dec 15 20:01	24° \mathcal{J} 21'41	
					11192 Dec 18 12:39	0° \mathcal{Z}	
superior conj	11192 Jan 09 08:00	25° \mathcal{Z} 30'05	1°13'52				
minimum elong	11192 Jan 09 10:51	25° \mathcal{Z} 44'14	1°14'09	superior conj	11192 Dec 23 03:33	9° \mathcal{Z} 39'36	1°29'15
	11192 Jan 11 15:07	0° \mathcal{A}		minimum elong	11192 Dec 23 05:35	9° \mathcal{Z} 50'07	1°29'44
max. Earth dist.	11192 Jan 15 11:03	7° \mathcal{A} 16'24	1.37447 AU	max. Earth dist.	11192 Dec 27 20:33	19° \mathcal{Z} 10'45	1.35414 AU
evening rise	11192 Jan 19 04:24	14° \mathcal{A} 02'45		evening rise	11192 Dec 31 21:44	26° \mathcal{Z} 58'08	
desc. node	11192 Jan 19 13:16	14° \mathcal{A} 42'05			11193 Jan 02 12:58	0° \mathcal{A}	
	11192 Jan 28 15:35	0° \mathcal{H}		desc. node	11193 Jan 05 10:09	5° \mathcal{A} 11'19	
	11192 Feb 19 04:49	0° \mathcal{Y}			11193 Jan 21 00:37	0° \mathcal{H}	
evening max el	11192 Feb 23 17:03	4° \mathcal{Y} 49'36	25°23'02	evening max el	11193 Feb 05 06:36	18° \mathcal{H} 36'38	26°27'15
retrograde	11192 Mar 06 21:26	11° \mathcal{Y} 52'17		retrograde	11193 Feb 18 05:20	25° \mathcal{H} 55'18	
evening set	11192 Mar 12 17:53	9° \mathcal{Y} 26'52		evening set	11193 Feb 24 13:01	23° \mathcal{H} 23'24	
asc. node	11192 Mar 14 00:05	8° \mathcal{Y} 16'40		min. Earth dist.	11193 Feb 28 15:55	19° \mathcal{H} 09'09	0.66570 AU
min. Earth dist.	11192 Mar 17 02:49	4° \mathcal{Y} 38'15	0.67691 AU	asc. node	11193 Feb 28 21:23	18° \mathcal{H} 52'50	
inferior conj	11192 Mar 18 10:08	2° \mathcal{Y} 57'04	1°22'26	inferior conj	11193 Mar 02 11:07	16° \mathcal{H} 58'36	0°30'27
minimum elong	11192 Mar 18 08:21	3° \mathcal{Y} 02'51	1°21'49	minimum elong	11193 Mar 02 10:19	17° \mathcal{H} 01'00	0°30'21
	11192 Mar 20 19:17	30° \mathcal{R} \mathcal{H}		morning rise	11193 Mar 08 08:33	11° \mathcal{H} 15'38	
morning rise	11192 Mar 23 23:15	27° \mathcal{H} 03'55		direct	11193 Mar 11 09:28	10° \mathcal{H} 23'46	
direct	11192 Mar 27 10:53	25° \mathcal{H} 54'10		morning max el	11193 Mar 17 22:00	13° \mathcal{H} 53'03	18°27'17
morning max el	11192 Apr 03 10:33	29° \mathcal{H} 43'52	19°12'59		11193 Mar 29 19:28	0° \mathcal{Y}	
	11192 Apr 03 17:02	0° \mathcal{Y}		desc. node	11193 Apr 03 11:11	7° \mathcal{Y} 17'45	
greatest brilliancy	11192 Apr 16 09:11	16° \mathcal{Y} 50'18	-0.7m	morning set	11193 Apr 07 06:40	13° \mathcal{Y} 19'40	
desc. node	11192 Apr 16 14:29	17° \mathcal{Y} 10'06			11193 Apr 17 20:33	0° \mathcal{B}	

superior conj	11193 Apr 23 03:56	8°♄18'21	-1°56'50	morning max el	11194 Mar 01 13:59	28°♄01'50	17°58'28
minimum elong	11193 Apr 22 19:26	7°♄45'11	1°56'35		11194 Mar 03 09:46	0°♄	
max. Earth dist.	11193 Apr 23 10:47	8°♄45'07	1.45692 AU	morning set	11194 Mar 19 09:28	24°♄29'12	
	11193 May 07 00:06	0°♄		desc. node	11194 Mar 21 07:52	27°♄40'14	
evening rise	11193 May 08 22:56	3°♄04'41			11194 Mar 22 17:54	0°♄	
greatest brilliancy	11193 May 18 07:48	17°♄49'23	-0.8m				
	11193 May 26 14:11	0°♄		superior conj	11194 Apr 02 15:18	17°♄33'52	-1°23'48
asc. node	11193 May 27 19:07	1°♄34'23		minimum elong	11194 Apr 02 06:34	16°♄59'15	1°22'56
evening max el	11193 May 31 02:50	5°♄22'42	18°53'27	max. Earth dist.	11194 Apr 06 06:53	23°♄19'22	1.45449 AU
retrograde	11193 Jun 06 20:04	9°♄05'01			11194 Apr 10 13:24	0°♄	
evening set	11193 Jun 10 05:01	7°♄59'24		evening rise	11194 Apr 18 17:15	12°♄37'16	
inferior conj	11193 Jun 15 18:01	2°♄16'50	3°11'08		11194 Apr 30 03:01	0°♄	
minimum elong	11193 Jun 15 19:04	2°♄13'29	3°10'23	greatest brilliancy	11194 May 02 17:06	3°♄50'29	-0.6m
min. Earth dist.	11193 Jun 17 11:38	0°♄05'56	0.66078 AU	evening max el	11194 May 14 09:10	19°♄06'02	19°42'52
	11193 Jun 17 13:34	30°♄		asc. node	11194 May 14 16:17	19°♄23'45	
morning rise	11193 Jun 21 08:26	25°♄55'21		retrograde	11194 May 21 18:00	23°♄17'30	
direct	11193 Jun 27 16:56	23°♄11'58		evening set	11194 May 25 11:52	21°♄55'51	
desc. node	11193 Jun 30 11:28	23°♄38'46		inferior conj	11194 May 30 20:17	15°♄59'02	3°16'34
	11193 Jul 09 18:35	0°♄		minimum elong	11194 May 30 20:13	15°♄59'18	3°15'57
morning max el	11193 Jul 10 17:31	0°♄56'54	26°33'47	min. Earth dist.	11194 May 31 23:08	14°♄29'30	0.67408 AU
	11193 Aug 01 10:36	0°♄		morning rise	11194 Jun 05 04:13	9°♄38'24	
morning set	11193 Aug 15 15:07	24°♄34'53		direct	11194 Jun 11 02:20	7°♄01'17	
	11193 Aug 18 10:54	0°♄		desc. node	11194 Jun 17 08:30	9°♄17'21	
max. Earth dist.	11193 Aug 19 16:02	2°♄23'03	1.34461 AU	morning max el	11194 Jun 23 03:39	14°♄14'52	25°16'41
asc. node	11193 Aug 23 19:03	10°♄42'55			11194 Jul 05 23:37	0°♄	
					11194 Jul 25 06:20	0°♄	
superior conj	11193 Aug 24 12:12	12°♄11'27	0°06'59	morning set	11194 Jul 29 03:46	6°♄50'57	
minimum elong	11193 Aug 24 11:50	12°♄09'33	0°06'38	max. Earth dist.	11194 Aug 01 18:33	13°♄28'18	1.36428 AU
behind sun begin	11193 Aug 24 06:29	11°♄41'51					
behind sun end	11193 Aug 24 17:12	12°♄37'18		superior conj	11194 Aug 08 01:43	25°♄36'28	-0°24'45
evening rise	11193 Aug 31 23:46	27°♄53'11		minimum elong	11194 Aug 08 03:17	25°♄44'16	0°24'53
	11193 Sep 02 00:09	0°♄			11194 Aug 10 06:26	0°♄	
evening max el	11193 Sep 20 06:38	29°♄36'14	21°03'57	asc. node	11194 Aug 10 15:49	0°♄47'20	
	11193 Sep 20 16:24	0°♄		evening rise	11194 Aug 16 05:18	12°♄06'00	
desc. node	11193 Sep 26 09:02	4°♄05'59			11194 Aug 25 16:31	0°♄	
retrograde	11193 Oct 02 01:19	5°♄26'57		evening max el	11194 Sep 02 14:09	10°♄37'34	19°47'32
evening set	11193 Oct 04 11:16	5°♄13'14		retrograde	11194 Sep 12 16:45	15°♄39'12	
inferior conj	11193 Oct 13 13:36	1°♄18'20	-4°47'34	desc. node	11194 Sep 13 06:21	15°♄38'18	
minimum elong	11193 Oct 13 03:54	1°♄32'01	4°44'57	evening set	11194 Sep 14 13:56	15°♄29'30	
min. Earth dist.	11193 Oct 14 03:32	0°♄58'39	0.54595 AU	inferior conj	11194 Sep 23 11:17	11°♄27'32	-3°07'16
	11193 Oct 15 21:44	30°♄		minimum elong	11194 Sep 23 03:05	11°♄40'10	3°04'17
morning rise	11193 Oct 21 20:54	27°♄25'27		min. Earth dist.	11194 Sep 25 13:04	10°♄10'55	0.55206 AU
direct	11193 Oct 25 20:51	26°♄51'05		morning rise	11194 Oct 01 14:36	7°♄09'31	
	11193 Nov 04 00:24	0°♄		direct	11194 Oct 06 10:08	6°♄18'36	
morning max el	11193 Nov 07 18:22	3°♄02'29	22°49'29	morning max el	11194 Oct 20 05:18	13°♄08'35	24°37'17
asc. node	11193 Nov 19 19:54	18°♄56'38			11194 Nov 02 05:52	0°♄	
	11193 Nov 25 20:24	0°♄		asc. node	11194 Nov 06 16:45	7°♄42'47	
morning set	11193 Nov 30 07:10	9°♄08'59		morning set	11194 Nov 14 18:59	23°♄55'05	
					11194 Nov 17 14:22	0°♄	
superior conj	11193 Dec 07 06:43	24°♄08'43	1°37'31				
minimum elong	11193 Dec 07 07:37	24°♄13'31	1°38'08	superior conj	11194 Nov 21 14:51	8°♄49'39	1°39'17
	11193 Dec 10 01:07	0°♄		minimum elong	11194 Nov 21 14:35	8°♄48'12	1°39'52
max. Earth dist.	11193 Dec 10 13:33	1°♄04'47	1.33722 AU	max. Earth dist.	11194 Nov 23 14:25	13°♄08'47	1.32463 AU
evening rise	11193 Dec 15 05:03	10°♄28'57		evening rise	11194 Nov 28 22:57	24°♄26'19	
desc. node	11193 Dec 23 07:05	25°♄27'47			11194 Dec 01 17:41	0°♄	
	11193 Dec 25 22:52	0°♄		desc. node	11194 Dec 10 04:05	15°♄25'16	
	11194 Jan 16 15:41	0°♄			11194 Dec 19 12:36	0°♄	
evening max el	11194 Jan 18 20:07	2°♄11'48	27°12'21	evening max el	11195 Jan 01 07:53	15°♄22'18	27°31'20
retrograde	11194 Feb 01 07:05	9°♄35'19		retrograde	11195 Jan 15 01:52	22°♄43'20	
evening set	11194 Feb 08 00:15	7°♄02'25		evening set	11195 Jan 22 01:04	20°♄16'26	
min. Earth dist.	11194 Feb 11 22:06	3°♄21'17	0.65082 AU	min. Earth dist.	11195 Jan 25 19:14	17°♄05'29	0.63274 AU
inferior conj	11194 Feb 14 05:02	0°♄49'13	-0°31'00	inferior conj	11195 Jan 28 13:04	14°♄21'40	-1°41'09
minimum elong	11194 Feb 14 05:56	0°♄46'42	0°30'15	minimum elong	11195 Jan 28 16:22	14°♄13'26	1°39'16
	11194 Feb 14 22:53	30°♄		asc. node	11195 Feb 02 15:56	9°♄59'10	
asc. node	11194 Feb 15 18:41	29°♄07'01		morning rise	11195 Feb 04 09:54	9°♄07'07	
morning rise	11194 Feb 20 13:10	25°♄18'55		direct	11195 Feb 06 18:26	8°♄40'30	
direct	11194 Feb 23 04:57	24°♄41'30		morning max el	11195 Feb 13 07:38	12°♄02'19	17°46'59

	11195 Feb 25 14:22	0° H		morning max el	11196 Jan 27 23:45	25° Z 46'01	17°53'37
morning set	11195 Mar 01 14:19	6° H 53'46			11196 Jan 31 13:46	0° \approx	
desc. node	11195 Mar 08 04:31	18° H 12'35		morning set	11196 Feb 12 14:57	20° \approx 14'05	
					11196 Feb 18 00:35	0° H	
superior conj	11195 Mar 13 22:04	27° H 46'49	-0°42'23				
minimum elong	11195 Mar 13 17:39	27° H 28'40	0°41'39	superior conj	11196 Feb 23 05:47	9° H 10'57	-0°01'28
	11195 Mar 15 06:34	0° Y		minimum elong	11196 Feb 23 05:40	9° H 10'30	0°01'10
max. Earth dist.	11195 Mar 20 01:28	7° Y 43'32	1.44490 AU	behind sun begin	11196 Feb 22 21:23	8° H 34'36	
evening rise	11195 Mar 29 04:38	22° Y 00'47		behind sun end	11196 Feb 23 13:58	9° H 46'18	
	11195 Apr 03 10:29	0° B		desc. node	11196 Feb 23 01:13	8° H 51'13	
	11195 Apr 24 19:30	0° II		max. Earth dist.	11196 Mar 01 15:57	21° H 40'55	1.42922 AU
evening max el	11195 Apr 27 09:46	2° II 49'59	20°46'33		11196 Mar 06 19:50	0° Y	
asc. node	11195 May 01 13:30	6° II 17'47		evening rise	11196 Mar 08 00:31	1° Y 53'16	
retrograde	11195 May 05 16:48	7° II 39'59			11196 Mar 26 22:03	0° B	
evening set	11195 May 09 20:22	6° II 02'21		evening max el	11196 Apr 09 04:59	16° B 34'52	22°00'54
inferior conj	11195 May 15 02:57	29° B 52'59	3°09'46	asc. node	11196 Apr 17 10:44	22° B 01'24	
minimum elong	11195 May 15 01:53	29° B 56'39	3°09'07	retrograde	11196 Apr 18 14:40	22° B 07'56	
	11195 May 15 00:55	30° R 8		evening set	11196 Apr 23 04:46	20° B 14'57	
min. Earth dist.	11195 May 15 15:52	29° B 08'19	0.68274 AU	inferior conj	11196 Apr 28 11:50	13° B 55'18	2°52'16
morning rise	11195 May 20 07:12	23° B 35'38		minimum elong	11196 Apr 28 10:03	14° B 01'32	2°51'31
direct	11195 May 25 16:45	21° B 12'37		min. Earth dist.	11196 Apr 28 11:47	13° B 55'27	0.68679 AU
desc. node	11195 Jun 04 05:28	26° B 23'48		morning rise	11196 May 03 15:09	7° B 42'55	
morning max el	11195 Jun 05 13:27	27° B 41'49	23°48'41	direct	11196 May 08 11:24	5° B 38'49	
	11195 Jun 07 17:33	0° II		morning max el	11196 May 18 01:04	11° B 16'31	22°19'20
	11195 Jun 29 15:24	0° E		desc. node	11196 May 21 02:23	14° B 34'47	
morning set	11195 Jul 10 20:04	18° E 10'07			11196 Jun 01 20:47	0° II	
max. Earth dist.	11195 Jul 14 16:03	24° E 48'59	1.38673 AU	morning set	11196 Jun 20 11:21	28° II 20'56	
	11195 Jul 17 13:34	0° O			11196 Jun 21 11:42	0° E	
				max. Earth dist.	11196 Jun 25 14:41	6° E 50'22	1.40956 AU
superior conj	11195 Jul 22 02:20	8° O 23'08	-0°58'24				
minimum elong	11195 Jul 22 06:19	8° O 41'58	0°58'17	superior conj	11196 Jul 03 09:46	20° E 21'25	-1°30'58
asc. node	11195 Jul 28 12:38	20° O 46'40		minimum elong	11196 Jul 03 15:54	20° E 48'50	1°30'49
evening rise	11195 Jul 31 04:11	25° O 57'47			11196 Jul 08 17:00	0° O	
	11195 Aug 02 05:58	0° M		evening rise	11196 Jul 13 16:59	9° O 19'28	
evening max el	11195 Aug 16 10:48	22° M 26'10	18°52'29	asc. node	11196 Jul 14 09:30	10° O 36'47	
retrograde	11195 Aug 24 23:45	26° M 42'13			11196 Jul 25 15:42	0° M	
evening set	11195 Aug 26 21:22	26° M 30'20		evening max el	11196 Jul 29 17:13	4° M 55'46	18°18'35
desc. node	11195 Aug 31 03:40	24° M 47'55		retrograde	11196 Aug 06 01:44	8° M 38'19	
inferior conj	11195 Sep 04 02:40	22° M 11'32	-1°14'15	evening set	11196 Aug 08 05:48	8° M 19'41	
minimum elong	11195 Sep 03 23:31	22° M 17'08	1°13'08	inferior conj	11196 Aug 15 15:52	3° M 40'40	0°25'09
min. Earth dist.	11195 Sep 07 03:20	20° M 02'29	0.56650 AU	minimum elong	11196 Aug 15 16:44	3° M 38'52	0°24'28
morning rise	11195 Sep 11 22:24	17° M 16'19		desc. node	11196 Aug 17 01:01	2° M 30'58	
direct	11195 Sep 17 12:39	16° M 01'25		min. Earth dist.	11196 Aug 19 00:16	0° M 53'53	0.58671 AU
morning max el	11195 Oct 01 18:40	23° M 23'03	26°13'55		11196 Aug 20 04:21	30° R 8	
	11195 Oct 07 17:59	0° O		morning rise	11196 Aug 23 00:11	28° O 09'58	
asc. node	11195 Oct 24 13:34	26° O 58'05		direct	11196 Aug 29 05:49	26° O 25'55	
	11195 Oct 26 02:24	0° M			11196 Sep 07 16:34	0° M	
morning set	11195 Oct 30 05:49	8° M 35'32		morning max el	11196 Sep 12 14:36	4° M 10'26	27°23'00
					11196 Oct 01 13:11	0° O	
superior conj	11195 Nov 06 01:47	23° M 36'07	1°35'01	asc. node	11196 Oct 10 10:21	16° O 34'07	
minimum elong	11195 Nov 06 00:31	23° M 29'09	1°35'27	morning set	11196 Oct 13 13:53	23° O 04'44	
max. Earth dist.	11195 Nov 06 21:03	25° M 23'05	1.31677 AU		11196 Oct 16 18:57	0° M	
	11195 Nov 08 23:16	0° A					
evening rise	11195 Nov 13 00:36	8° A 43'07		superior conj	11196 Oct 20 13:31	8° M 21'29	1°25'05
	11195 Nov 24 02:38	0° Z		minimum elong	11196 Oct 20 11:34	8° M 10'36	1°25'14
desc. node	11195 Nov 27 01:10	4° Z 55'57		max. Earth dist.	11196 Oct 20 06:05	7° M 40'03	1.31387 AU
evening max el	11195 Dec 14 15:33	27° Z 55'24	27°18'36	evening rise	11196 Oct 27 07:30	23° M 12'08	
	11195 Dec 16 23:46	0° \approx			11196 Oct 30 13:37	0° A	
retrograde	11195 Dec 28 13:03	5° \approx 10'15		desc. node	11196 Nov 12 22:20	23° A 48'26	
evening set	11196 Jan 04 12:19	2° \approx 58'07			11196 Nov 17 06:29	0° Z	
	11196 Jan 08 11:00	30° R 3		evening max el	11196 Nov 25 16:33	9° Z 39'48	26°31'33
min. Earth dist.	11196 Jan 08 06:01	0° \approx 10'36	0.61228 AU	retrograde	11196 Dec 09 15:10	16° Z 46'45	
inferior conj	11196 Jan 11 08:03	27° Z 27'53	-2°57'20	evening set	11196 Dec 16 05:53	14° Z 59'02	
minimum elong	11196 Jan 11 14:06	27° Z 14'34	2°54'29	min. Earth dist.	11196 Dec 20 06:21	12° Z 23'08	0.59094 AU
morning rise	11196 Jan 18 18:35	22° Z 32'15		inferior conj	11196 Dec 23 10:21	9° Z 57'26	-4°13'27
direct	11196 Jan 20 22:20	22° Z 12'50		minimum elong	11196 Dec 23 18:24	9° Z 41'59	4°10'26
asc. node	11196 Jan 20 13:07	22° Z 13'28		morning rise	11196 Dec 31 09:41	5° Z 23'10	

direct	11197 Jan 02 12:23	5°  07'27		asc. node	11197 Dec 24 07:21	21°  26'47	
asc. node	11197 Jan 06 10:16	6°  04'23		morning max el	11197 Dec 24 12:11	21°  38'19	19°07'19
morning max el	11197 Jan 10 10:35	9°  01'38	18°19'46		11197 Dec 31 01:32	0° 	
	11197 Jan 24 00:16	0° 		morning set	11198 Jan 10 05:31	18°  34'41	
morning set	11197 Jan 26 05:30	4°  11'58			11198 Jan 15 23:53	0° 	
superior conj	11197 Feb 04 12:06	21°  37'45	0°33'52	superior conj	11198 Jan 18 12:24	4°  54'13	1°01'33
minimum elong	11197 Feb 04 14:27	21°  48'25	0°33'57	minimum elong	11198 Jan 18 15:26	5°  08'44	1°01'42
desc. node	11197 Feb 08 21:57	29°  31'53		max. Earth dist.	11198 Jan 25 07:53	17°  35'42	1.38714 AU
	11197 Feb 09 04:22	0° 		desc. node	11198 Jan 26 18:44	20°  11'10	
max. Earth dist.	11197 Feb 12 01:24	4°  58'35	1.40919 AU	evening rise	11198 Jan 29 02:59	24°  17'00	
evening rise	11197 Feb 16 15:01	12°  37'06			11198 Feb 01 11:54	0° 	
	11197 Feb 27 17:14	0° 			11198 Feb 21 11:08	0° 	
	11197 Mar 22 11:36	0° 		evening max el	11198 Mar 05 10:16	14°  12'44	24°40'31
evening max el	11197 Mar 22 20:28	0°  22'21	23°21'01	retrograde	11198 Mar 17 01:32	21°  00'07	
retrograde	11197 Apr 02 10:00	6°  36'29		asc. node	11198 Mar 22 05:21	19°  00'42	
asc. node	11197 Apr 04 08:02	6°  19'03		evening set	11198 Mar 22 15:06	18°  40'41	
evening set	11197 Apr 07 11:33	4°  29'21		min. Earth dist.	11198 Mar 27 04:08	13°  31'54	0.68154 AU
	11197 Apr 11 10:39	30°  R 		inferior conj	11198 Mar 28 04:30	12°  10'50	1°48'01
inferior conj	11197 Apr 12 20:59	28°  Y02'37	2°24'56	minimum elong	11198 Mar 28 02:26	12°  17'45	1°47'16
minimum elong	11197 Apr 12 18:50	28°  Y10'02	2°24'06	morning rise	11198 Apr 02 13:56	6°  Y12'30	
min. Earth dist.	11197 Apr 12 08:39	28°  Y45'08	0.68632 AU	direct	11198 Apr 06 08:27	4°  Y50'57	
morning rise	11197 Apr 18 02:03	21°  Y56'31		morning max el	11198 Apr 13 17:50	8°  Y57'56	19°46'35
direct	11197 Apr 22 09:05	20°  Y13'40		desc. node	11198 Apr 24 20:01	23°  Y04'38	
morning max el	11197 Apr 30 17:43	25°  Y01'20	20°56'49	greatest brilliancy	11198 Apr 26 15:12	25°  Y41'11	-0.6m
	11197 May 05 04:17	0° 			11198 Apr 29 13:20	0° 	
desc. node	11197 May 07 23:14	3°  32'45		morning set	11198 May 10 00:54	15°  35'57	
	11197 May 26 06:12	0° 			11198 May 19 02:26	0° 	
morning set	11197 May 31 01:13	7°  II24'18		max. Earth dist.	11198 May 21 07:29	3°  II29'40	1.44576 AU
max. Earth dist.	11197 Jun 07 19:23	19°  II45'22	1.43005 AU				
	11197 Jun 14 00:06	0° 		superior conj	11198 May 26 05:18	11°  II21'06	-2°12'15
superior conj	11197 Jun 14 19:38	1°  32'21	-1°57'43	minimum elong	11198 May 26 07:30	11°  II29'59	2°12'50
minimum elong	11197 Jun 15 01:55	1°  38'56	1°57'54		11198 Jun 06 12:15	0° 	
evening rise	11197 Jun 26 15:25	22°  30'34		evening rise	11198 Jun 08 18:31	3°  38'18	
asc. node	11197 Jul 01 06:26	0°  13'15		asc. node	11198 Jun 18 03:26	19°  30'01	
	11197 Jul 01 03:25	0° 			11198 Jun 25 13:55	0° 	
evening max el	11197 Jul 13 05:18	17°  15'30	18°04'33	evening max el	11198 Jun 26 19:17	1°  17'48	18°09'21
retrograde	11197 Jul 19 20:34	21°  12'35		retrograde	11198 Jul 03 03:58	4°  13'19	
evening set	11197 Jul 22 08:38	20°  15'31		evening set	11198 Jul 06 00:04	3°  15'11	
inferior conj	11197 Jul 29 01:17	15°  12'27	1°40'17		11198 Jul 10 20:38	30°  R 	
minimum elong	11197 Jul 29 03:51	15°  12'15	1°38'58	inferior conj	11198 Jul 12 02:56	28°  38'39	2°31'11
min. Earth dist.	11197 Aug 01 05:20	12°  12'03	0.60940 AU	minimum elong	11198 Jul 12 05:30	28°  31'38	2°29'58
desc. node	11197 Aug 03 22:20	10°  12'34'11		min. Earth dist.	11198 Jul 14 19:30	25°  43'10	0.63160 AU
morning rise	11197 Aug 04 20:21	9°  12'55'43		morning rise	11198 Jul 18 09:13	22°  42'05	
direct	11197 Aug 11 11:09	7°  12'44'04		desc. node	11198 Jul 21 19:36	20°  42'38	
morning max el	11197 Aug 25 17:25	15°  12'42'03	27°55'19	direct	11198 Jul 25 02:03	19°  42'54'11	
	11197 Sep 06 09:54	0° 		morning max el	11198 Aug 08 01:24	27°  42'56'22	27°49'22
	11197 Sep 24 02:41	0° 			11198 Aug 10 00:42	0° 	
asc. node	11197 Sep 27 07:07	6°  12'24'52			11198 Aug 31 04:44	0° 	
morning set	11197 Sep 27 17:23	7°  12'17'57		morning set	11198 Sep 11 14:05	21°  12'08'50	
max. Earth dist.	11197 Oct 03 13:58	19°  12'51'10	1.31599 AU	asc. node	11198 Sep 14 03:52	26°  12'04'41	
					11198 Sep 15 20:56	0° 	
superior conj	11197 Oct 05 00:18	23°  12'00'29	1°09'43	max. Earth dist.	11198 Sep 16 16:52	1°  12'45'56	1.32315 AU
minimum elong	11197 Oct 04 22:03	22°  12'48'04	1°09'35				
	11197 Oct 08 04:02	0° 		superior conj	11198 Sep 19 08:09	7°  12'26'53	0°49'07
evening rise	11197 Oct 11 17:39	7°  12'47'58		minimum elong	11198 Sep 19 06:08	7°  12'15'54	0°48'46
	11197 Oct 23 02:42	0° 		evening rise	11198 Sep 26 05:03	22°  12'24'35	
desc. node	11197 Oct 30 19:34	11°  12'48'03			11198 Sep 29 19:58	0° 	
evening max el	11197 Nov 07 09:30	20°  12'33'15	25°13'27	desc. node	11198 Oct 17 16:52	28°  12'34'28	
retrograde	11197 Nov 21 06:03	27°  12'30'46			11198 Oct 19 01:12	0° 	
evening set	11197 Nov 27 01:08	26°  12'14'40		evening max el	11198 Oct 19 20:26	0°  12'47'40	23°35'53
min. Earth dist.	11197 Dec 01 21:35	23°  12'34'00	0.57103 AU	retrograde	11198 Nov 02 08:03	7°  12'31'11	
inferior conj	11197 Dec 04 16:58	21°  12'41'47	-5°16'59	evening set	11198 Nov 06 20:10	6°  12'47'01	
minimum elong	11197 Dec 05 00:03	21°  12'29'58	5°15'05	min. Earth dist.	11198 Nov 13 06:33	3°  12'43'04	0.55533 AU
morning rise	11197 Dec 13 01:13	17° 12'29'36		inferior conj	11198 Nov 15 03:19	2° 12'36'55	-5°48'06
direct	11197 Dec 15 08:47	17° 12'13'54		minimum elong	11198 Nov 15 04:22	2° 12'35'22	5°47'30
					11198 Nov 19 22:47	30° R	

morning rise	11198 Nov 23 14:23	28° \mathbb{M} 43'32		min. Earth dist.	11199 Oct 25 13:22	13° \mathbb{M} 05'07	0.54676 AU
direct	11198 Nov 26 09:57	28° \mathbb{M} 24'00		morning rise	11199 Nov 03 07:46	9° \mathbb{M} 05'00	
	11198 Dec 02 10:15	0° \mathbb{A}		direct	11199 Nov 06 20:26	8° \mathbb{M} 37'41	
morning max el	11198 Dec 07 01:07	3° \mathbb{A} 26'33	20°17'46	morning max el	11199 Nov 19 00:24	14° \mathbb{M} 23'45	21°49'42
asc. node	11198 Dec 11 04:23	8° \mathbb{A} 06'00		asc. node	11199 Nov 28 01:21	25° \mathbb{M} 45'34	
	11198 Dec 23 21:50	0° \mathbb{B}			11199 Nov 30 15:20	0° \mathbb{A}	
morning set	11198 Dec 25 11:46	3° \mathbb{B} 12'59		morning set	11199 Dec 09 21:42	17° \mathbb{A} 58'54	
					11199 Dec 15 13:45	0° \mathbb{B}	
superior conj	11199 Jan 02 02:05	18° \mathbb{B} 47'52	1°21'19				
minimum elong	11199 Jan 02 04:40	19° \mathbb{B} 00'51	1°21'41	superior conj	11199 Dec 17 01:14	3° \mathbb{B} 07'01	1°33'36
max. Earth dist.	11199 Jan 07 15:15	29° \mathbb{B} 41'59	1.36548 AU	minimum elong	11199 Dec 17 02:49	3° \mathbb{B} 15'16	1°34'09
	11199 Jan 07 19:02	0° \mathbb{C}		max. Earth dist.	11199 Dec 21 03:41	11° \mathbb{B} 34'24	1.34637 AU
evening rise	11199 Jan 11 10:33	6° \mathbb{C} 47'25		evening rise	11199 Dec 25 10:13	19° \mathbb{B} 58'45	
desc. node	11199 Jan 13 15:34	10° \mathbb{C} 45'28			11199 Dec 30 20:36	0° \mathbb{C}	
	11199 Jan 25 07:35	0° \mathbb{H}		desc. node	11199 Dec 31 12:26	1° \mathbb{C} 09'56	
evening max el	11199 Feb 15 23:43	28° \mathbb{H} 03'01	25°52'18		11200 Jan 19 07:45	0° \mathbb{H}	
	11199 Feb 18 02:10	0° \mathbb{Y}		evening max el	11200 Jan 29 13:08	11° \mathbb{H} 45'35	26°49'12
retrograde	11199 Feb 28 12:19	5° \mathbb{Y} 13'14		retrograde	11200 Feb 11 17:39	19° \mathbb{H} 07'47	
evening set	11199 Mar 06 13:49	2° \mathbb{Y} 44'29		evening set	11200 Feb 18 05:50	16° \mathbb{H} 34'19	
asc. node	11199 Mar 09 02:38	0° \mathbb{Y} 14'13		min. Earth dist.	11200 Feb 22 06:19	12° \mathbb{H} 34'45	0.65978 AU
	11199 Mar 09 07:39	30° \mathbb{R} \mathbb{H}		asc. node	11200 Feb 23 23:56	10° \mathbb{H} 33'29	
min. Earth dist.	11199 Mar 10 20:05	28° \mathbb{H} 10'47	0.67261 AU	inferior conj	11200 Feb 24 06:41	10° \mathbb{H} 13'42	0°05'30
inferior conj	11199 Mar 12 08:27	26° \mathbb{H} 16'23	1°01'35	minimum elong	11200 Feb 24 06:31	10° \mathbb{H} 14'11	0°05'44
minimum elong	11199 Mar 12 07:01	26° \mathbb{H} 20'57	1°01'08	transit middle	11200 Feb 24 06:31	10° \mathbb{H} 14'11	0°05'44
morning rise	11199 Mar 18 00:48	20° \mathbb{H} 27'26		transit begin	11200 Feb 24 03:46	10° \mathbb{H} 22'15	
direct	11199 Mar 21 07:48	19° \mathbb{H} 25'33		transit end	11200 Feb 24 09:16	10° \mathbb{H} 06'08	
morning max el	11199 Mar 28 01:37	23° \mathbb{H} 04'39	18°51'37	morning rise	11200 Mar 01 08:25	4° \mathbb{H} 36'10	
	11199 Apr 02 20:16	0° \mathbb{Y}		direct	11200 Mar 04 05:14	3° \mathbb{H} 50'57	
greatest brilliancy	11199 Apr 11 07:48	12° \mathbb{Y} 27'18	-0.8m	morning max el	11200 Mar 10 15:22	7° \mathbb{H} 14'56	18°13'02
desc. node	11199 Apr 11 16:43	13° \mathbb{Y} 01'30			11200 Mar 26 12:40	0° \mathbb{Y}	
morning set	11199 Apr 19 09:05	24° \mathbb{Y} 55'29		desc. node	11200 Mar 28 13:23	3° \mathbb{Y} 15'56	
	11199 Apr 22 15:18	0° \mathbb{B}		morning set	11200 Mar 29 18:52	5° \mathbb{Y} 14'37	
max. Earth dist.	11199 May 04 00:56	17° \mathbb{B} 47'24	1.45495 AU				
superior conj	11199 May 05 18:38	20° \mathbb{B} 30'58	-2°08'22	superior conj	11200 Apr 14 01:18	29° \mathbb{Y} 29'57	-1°44'29
minimum elong	11199 May 05 13:23	20° \mathbb{B} 10'22	2°08'37	minimum elong	11200 Apr 13 15:52	28° \mathbb{Y} 53'00	1°43'54
	11199 May 11 18:51	0° \mathbb{I}			11200 Apr 14 08:58	0° \mathbb{B}	
evening rise	11199 May 20 22:17	14° \mathbb{I} 38'49		max. Earth dist.	11200 Apr 15 20:29	2° \mathbb{B} 18'58	1.45675 AU
	11199 May 30 11:31	0° \mathbb{C}		evening rise	11200 Apr 30 02:42	24° \mathbb{B} 32'33	
asc. node	11199 Jun 05 00:30	8° \mathbb{C} 20'25			11200 May 03 14:50	0° \mathbb{I}	
evening max el	11199 Jun 10 08:01	14° \mathbb{C} 52'05	18°32'15	greatest brilliancy	11200 May 11 14:50	12° \mathbb{I} 19'59	-0.7m
retrograde	11199 Jun 16 19:42	18° \mathbb{C} 22'57		asc. node	11200 May 21 21:37	26° \mathbb{I} 35'10	
evening set	11199 Jun 19 23:51	17° \mathbb{C} 26'10		evening max el	11200 May 23 17:06	28° \mathbb{I} 32'56	19°12'31
inferior conj	11199 Jun 25 16:51	11° \mathbb{C} 52'02	3°01'28		11200 May 25 06:46	0° \mathbb{C}	
minimum elong	11199 Jun 25 18:33	11° \mathbb{C} 46'53	3°00'34	retrograde	11200 May 30 16:14	2° \mathbb{C} 26'47	
min. Earth dist.	11199 Jun 27 18:59	9° \mathbb{C} 21'20	0.65121 AU	evening set	11200 Jun 03 04:49	1° \mathbb{C} 14'27	
morning rise	11199 Jul 01 12:18	5° \mathbb{C} 31'54			11200 Jun 04 17:19	30° \mathbb{R} \mathbb{I}	
direct	11199 Jul 08 01:04	2° \mathbb{C} 49'50		inferior conj	11200 Jun 08 15:29	25° \mathbb{I} 25'28	3°15'05
desc. node	11199 Jul 08 16:46	2° \mathbb{C} 51'19		minimum elong	11200 Jun 08 16:03	25° \mathbb{I} 23'37	3°14'24
morning max el	11199 Jul 21 12:04	10° \mathbb{C} 45'13	27°09'18	min. Earth dist.	11200 Jun 10 02:43	23° \mathbb{I} 31'23	0.66693 AU
	11199 Aug 05 17:15	0° \mathbb{Q}		morning rise	11200 Jun 14 02:46	19° \mathbb{I} 03'40	
	11199 Aug 23 16:29	0° \mathbb{P}		direct	11200 Jun 20 07:03	16° \mathbb{I} 21'56	
morning set	11199 Aug 26 01:16	4° \mathbb{P} 30'39		desc. node	11200 Jun 24 13:51	17° \mathbb{I} 25'59	
max. Earth dist.	11199 Aug 30 11:16	13° \mathbb{P} 17'35	1.33539 AU	morning max el	11200 Jul 02 22:53	23° \mathbb{I} 56'08	26°03'00
asc. node	11199 Sep 01 00:36	16° \mathbb{P} 29'28			11200 Jul 08 08:57	0° \mathbb{C}	
					11200 Jul 29 02:32	0° \mathbb{Q}	
superior conj	11199 Sep 03 10:58	21° \mathbb{P} 34'55	0°23'38	morning set	11200 Aug 07 23:27	17° \mathbb{Q} 14'47	
minimum elong	11199 Sep 03 09:48	21° \mathbb{P} 28'44	0°23'14	max. Earth dist.	11200 Aug 11 19:10	24° \mathbb{Q} 27'58	1.35247 AU
	11199 Sep 07 09:42	0° \mathbb{Q}			11200 Aug 14 14:57	0° \mathbb{P}	
evening rise	11199 Sep 10 15:49	6° \mathbb{Q} 56'39		superior conj	11200 Aug 17 06:14	5° \mathbb{P} 18'21	-0°06'08
	11199 Sep 22 20:45	0° \mathbb{M}		minimum elong	11200 Aug 17 06:37	5° \mathbb{P} 20'15	0°06'24
evening max el	11199 Oct 01 09:09	10° \mathbb{M} 54'56	21°56'04	behind sun begin	11200 Aug 17 01:01	4° \mathbb{P} 51'49	
desc. node	11199 Oct 04 14:11	13° \mathbb{M} 41'11		behind sun end	11200 Aug 17 12:12	5° \mathbb{P} 48'45	
retrograde	11199 Oct 13 23:12	17° \mathbb{M} 10'40		asc. node	11200 Aug 17 21:22	6° \mathbb{P} 35'30	
evening set	11199 Oct 17 00:33	16° \mathbb{M} 49'44		evening rise	11200 Aug 24 23:57	21° \mathbb{P} 18'45	
inferior conj	11199 Oct 25 22:38	12° \mathbb{M} 52'09	-5°26'24		11200 Aug 29 07:09	0° \mathbb{Q}	
minimum elong	11199 Oct 25 15:29	13° \mathbb{M} 02'10	5°24'55	evening max el	11200 Sep 12 08:44	21° \mathbb{Q} 31'48	20°28'54

desc. node	11200 Sep 20 11:32	26°♌39'10		evening max el	11201 Aug 25 22:17	2°♌54'34	19°21'34
retrograde	11200 Sep 23 11:12	27°♌02'33		retrograde	11201 Sep 04 08:02	7°♌35'17	
evening set	11200 Sep 25 13:21	26°♌51'41		evening set	11201 Sep 06 04:12	7°♌25'19	
inferior conj	11200 Oct 04 15:24	22°♌55'18	-4°08'50	desc. node	11201 Sep 07 08:54	7°♌08'42	
minimum elong	11200 Oct 04 05:31	23°♌09'39	4°05'41	inferior conj	11201 Sep 14 19:40	3°♌17'27	-2°19'01
min. Earth dist.	11200 Oct 05 21:41	22°♌11'15	0.54737 AU	minimum elong	11201 Sep 14 13:31	3°♌27'29	2°16'41
morning rise	11200 Oct 12 21:12	18°♌53'36		min. Earth dist.	11201 Sep 17 09:16	1°♌37'11	0.55733 AU
direct	11200 Oct 17 05:12	18°♌13'12			11201 Sep 20 02:50	30°♏♏	
morning max el	11200 Oct 30 13:54	24°♌42'27	23°35'31	morning rise	11201 Sep 22 20:15	28°♏44'09	
	11200 Nov 04 10:43	0°♏		direct	11201 Sep 28 00:12	27°♏43'34	
asc. node	11200 Nov 13 22:14	14°♏11'20			11201 Oct 05 18:33	0°♌	
	11200 Nov 22 01:47	0°♏		morning max el	11201 Oct 12 00:59	4°♌48'31	25°20'37
morning set	11200 Nov 23 09:22	2°♏46'54			11201 Oct 30 01:47	0°♏	
				asc. node	11201 Oct 31 19:04	3°♏11'08	
superior conj	11200 Nov 30 06:52	17°♏42'56	1°39'01	morning set	11201 Nov 07 20:58	17°♏31'12	
minimum elong	11200 Nov 30 07:16	17°♏45'04	1°39'39		11201 Nov 13 13:47	0°♏	
max. Earth dist.	11200 Dec 02 23:55	23°♏31'29	1.33126 AU				
	11200 Dec 06 02:28	0°♏		superior conj	11201 Nov 14 16:27	2°♏27'19	1°38'11
evening rise	11200 Dec 07 22:27	3°♏42'30		minimum elong	11201 Nov 14 15:45	2°♏23'23	1°38'43
desc. node	11200 Dec 17 09:25	21°♏19'30		max. Earth dist.	11201 Nov 16 03:28	5°♏39'52	1.32074 AU
	11200 Dec 22 15:16	0°♏		evening rise	11201 Nov 21 20:01	17°♏49'29	
evening max el	11201 Jan 11 01:57	25°♏11'20	27°23'57		11201 Nov 28 00:06	0°♏	
	11201 Jan 17 01:42	0°♏		desc. node	11201 Dec 04 06:30	11°♏06'51	
retrograde	11201 Jan 24 16:45	2°♏35'26			11201 Dec 17 03:49	0°♏	
evening set	11201 Jan 31 12:58	0°♏03'54		evening max el	11201 Dec 24 12:26	8°♏08'02	27°30'03
	11201 Jan 31 15:03	30°♏		retrograde	11202 Jan 07 08:36	15°♏26'49	
min. Earth dist.	11201 Feb 04 08:54	26°♏36'10	0.64344 AU	evening set	11202 Jan 14 08:26	13°♏05'22	
inferior conj	11201 Feb 06 20:43	23°♏57'25	-0°59'49	min. Earth dist.	11202 Jan 18 01:58	10°♏05'06	0.62422 AU
minimum elong	11201 Feb 06 22:34	23°♏52'30	0°58'36	inferior conj	11202 Jan 20 23:39	7°♏20'08	-2°13'00
asc. node	11201 Feb 09 21:11	20°♏56'41		minimum elong	11202 Jan 21 04:06	7°♏09'32	2°10'41
morning rise	11201 Feb 13 10:05	18°♏33'36		asc. node	11202 Jan 27 18:24	2°♏20'02	
direct	11201 Feb 15 22:24	18°♏01'24		morning rise	11202 Jan 28 02:15	2°♏12'59	
morning max el	11201 Feb 22 08:27	21°♏21'24	17°51'25	direct	11202 Jan 30 08:19	1°♏49'55	
	11201 Mar 01 01:02	0°♏		morning max el	11202 Feb 06 01:50	5°♏15'46	17°47'28
morning set	11201 Mar 11 09:21	16°♏57'42		morning set	11202 Feb 21 23:28	29°♏48'40	
desc. node	11201 Mar 15 10:02	23°♏42'57			11202 Feb 22 02:01	0°♏	
	11201 Mar 19 05:04	0°♏		desc. node	11202 Mar 02 06:44	14°♏18'33	
superior conj	11201 Mar 24 19:32	9°♏06'29	-1°06'40	superior conj	11202 Mar 05 12:48	19°♏49'30	-0°24'34
minimum elong	11201 Mar 24 12:23	8°♏37'44	1°05'46	minimum elong	11202 Mar 05 10:23	19°♏39'23	0°24'01
max. Earth dist.	11201 Mar 29 15:35	16°♏48'28	1.45118 AU		11202 Mar 11 16:59	0°♏	
	11201 Apr 07 02:43	0°♏		max. Earth dist.	11202 Mar 12 08:26	1°♏02'20	1.43887 AU
evening rise	11201 Apr 09 15:59	3°♏55'27		evening rise	11202 Mar 20 05:18	13°♏27'42	
greatest brilliancy	11201 Apr 24 17:34	26°♏33'18	-0.6m		11202 Mar 31 04:04	0°♏	
	11201 Apr 27 03:14	0°♏		evening max el	11202 Apr 19 19:18	26°♏01'28	21°17'17
evening max el	11201 May 06 20:59	12°♏16'26	20°08'30		11202 Apr 24 17:00	0°♏	
asc. node	11201 May 08 18:48	14°♏02'41		asc. node	11202 Apr 25 16:01	0°♏29'09	
retrograde	11201 May 14 14:46	16°♏43'43		retrograde	11202 Apr 28 13:15	1°♏09'16	
evening set	11201 May 18 12:33	15°♏15'28			11202 May 02 02:16	30°♏♏	
inferior conj	11201 May 23 19:54	9°♏13'11	3°15'06	evening set	11202 May 02 21:12	29°♏25'07	
minimum elong	11201 May 23 19:23	9°♏14'58	3°14'28	inferior conj	11202 May 08 03:45	23°♏11'21	3°03'36
min. Earth dist.	11201 May 24 16:47	8°♏02'13	0.67826 AU	minimum elong	11202 May 08 02:21	23°♏16'15	3°02'55
morning rise	11201 May 29 01:53	2°♏53'30		min. Earth dist.	11202 May 08 11:08	22°♏45'40	0.68500 AU
direct	11201 Jun 03 18:51	0°♏21'20		morning rise	11202 May 13 07:16	16°♏56'01	
desc. node	11201 Jun 11 10:52	3°♏44'53		direct	11202 May 18 11:20	14°♏40'20	
morning max el	11201 Jun 15 08:38	7°♏18'09	24°39'59	morning max el	11202 May 28 18:37	20°♏47'41	23°10'21
	11201 Jul 03 01:21	0°♏		desc. node	11202 May 29 07:47	21°♏21'21	
morning set	11201 Jul 21 04:05	29°♏08'41			11202 Jun 05 15:49	0°♏	
	11201 Jul 21 15:45	0°♏			11202 Jun 26 06:45	0°♏	
max. Earth dist.	11201 Jul 24 18:18	5°♏34'13	1.37353 AU	morning set	11202 Jul 02 10:12	9°♏59'55	
				max. Earth dist.	11202 Jul 06 15:26	17°♏09'34	1.39656 AU
superior conj	11201 Jul 31 14:46	18°♏28'34	-0°38'56		11202 Jul 13 20:23	0°♏	
minimum elong	11201 Jul 31 17:19	18°♏41'01	0°38'56				
asc. node	11201 Aug 04 18:09	26°♏38'25		superior conj	11202 Jul 14 08:41	0°♏56'35	-1°12'34
	11201 Aug 06 10:27	0°♏		minimum elong	11202 Jul 14 13:41	1°♏19'40	1°12'23
evening rise	11201 Aug 09 03:01	5°♏23'41		asc. node	11202 Jul 22 15:01	16°♏34'46	
	11201 Aug 23 08:09	0°♏		evening rise	11202 Jul 23 22:05	19°♏04'04	

	11202 Jul 29 17:35	0° \mathbb{M}		evening rise	11203 Jul 07 05:18	2° Ω 09'44	
evening max el	11202 Aug 08 23:40	15° \mathbb{M} 02'18	18°35'34	asc. node	11203 Jul 09 11:55	6° Ω 19'44	
retrograde	11202 Aug 16 22:54	19° \mathbb{M} 01'59		evening max el	11203 Jul 23 08:54	27° Ω 45'51	18°10'14
evening set	11202 Aug 18 23:06	18° \mathbb{M} 47'35			11203 Jul 26 03:19	0° \mathbb{M}	
desc. node	11202 Aug 25 06:14	15° \mathbb{M} 31'14		retrograde	11203 Jul 30 08:43	1° \mathbb{M} 18'54	
inferior conj	11202 Aug 26 20:13	14° \mathbb{M} 20'13	-0°29'28	evening set	11203 Aug 01 16:09	0° \mathbb{M} 56'11	
minimum elong	11202 Aug 26 19:03	14° \mathbb{M} 22'28	0°29'16		11203 Aug 03 17:58	30° \mathbb{R} Ω	
min. Earth dist.	11202 Aug 30 01:55	11° \mathbb{M} 53'01	0.57467 AU	inferior conj	11203 Aug 08 18:23	26° Ω 08'06	1°00'06
morning rise	11202 Sep 03 11:33	9° \mathbb{M} 09'30		minimum elong	11203 Aug 08 20:14	26° Ω 03'59	0°59'02
direct	11202 Sep 09 09:09	7° \mathbb{M} 42'29		min. Earth dist.	11203 Aug 12 01:55	23° Ω 12'06	0.59621 AU
morning max el	11202 Sep 23 16:39	15° \mathbb{M} 13'59	26°47'16	desc. node	11203 Aug 12 03:32	23° Ω 08'42	
	11202 Oct 05 15:03	0° Ω		morning rise	11203 Aug 15 21:08	20° Ω 25'01	
asc. node	11202 Oct 18 15:53	22° Ω 36'15		direct	11203 Aug 22 07:21	18° Ω 29'05	
	11202 Oct 22 06:45	0° \mathbb{M}		morning max el	11203 Sep 05 15:44	26° Ω 19'54	27°41'38
morning set	11202 Oct 23 06:51	2° \mathbb{M} 07'29			11203 Sep 09 02:37	0° \mathbb{M}	
					11203 Sep 29 03:53	0° Ω	
superior conj	11202 Oct 30 03:58	17° \mathbb{M} 14'01	1°31'29	asc. node	11203 Oct 05 12:41	12° Ω 19'42	
minimum elong	11202 Oct 30 02:23	17° \mathbb{M} 05'08	1°31'48	morning set	11203 Oct 07 13:17	16° Ω 31'10	
max. Earth dist.	11202 Oct 30 11:42	17° \mathbb{M} 57'06	1.31504 AU		11203 Oct 13 18:22	0° \mathbb{M}	
	11202 Nov 04 23:21	0° \mathbb{X}		max. Earth dist.	11203 Oct 13 20:59	0° \mathbb{M} 14'31	1.31419 AU
evening rise	11202 Nov 06 00:14	2° \mathbb{X} 12'36					
	11202 Nov 20 21:52	0° \mathbb{Z}		superior conj	11203 Oct 14 15:33	1° \mathbb{M} 57'43	1°19'13
desc. node	11202 Nov 21 03:38	0° \mathbb{Z} 22'57		minimum elong	11203 Oct 14 13:25	1° \mathbb{M} 45'51	1°19'15
evening max el	11202 Dec 06 17:50	20° \mathbb{Z} 22'21	27°02'42	evening rise	11203 Oct 21 08:48	16° \mathbb{M} 45'45	
retrograde	11202 Dec 20 15:49	27° \mathbb{Z} 32'55			11203 Oct 27 20:17	0° \mathbb{X}	
evening set	11202 Dec 27 12:41	25° \mathbb{Z} 30'23		desc. node	11203 Nov 08 00:50	18° \mathbb{X} 55'43	
min. Earth dist.	11202 Dec 31 08:16	22° \mathbb{Z} 49'25	0.60324 AU		11203 Nov 16 21:04	0° \mathbb{Z}	
inferior conj	11203 Jan 03 12:00	20° \mathbb{Z} 12'17	-3°30'14	evening max el	11203 Nov 18 15:27	1° \mathbb{Z} 45'19	26°01'33
minimum elong	11203 Jan 03 19:05	19° \mathbb{Z} 57'32	3°27'10	retrograde	11203 Dec 02 13:15	8° \mathbb{Z} 48'16	
morning rise	11203 Jan 11 04:12	15° \mathbb{Z} 25'10		evening set	11203 Dec 08 21:23	7° \mathbb{Z} 13'04	
direct	11203 Jan 13 07:04	15° \mathbb{Z} 07'38		min. Earth dist.	11203 Dec 13 04:14	4° \mathbb{Z} 37'43	0.58221 AU
asc. node	11203 Jan 14 15:35	15° \mathbb{Z} 15'04		inferior conj	11203 Dec 16 06:18	2° \mathbb{Z} 24'19	-4°42'56
morning max el	11203 Jan 20 16:06	18° \mathbb{Z} 48'31	18°02'14	minimum elong	11203 Dec 16 14:27	2° \mathbb{Z} 09'34	4°40'13
	11203 Jan 28 18:59	0° \approx			11203 Dec 19 19:25	30° \mathbb{R} \mathbb{X}	
morning set	11203 Feb 05 06:40	13° \approx 27'15		morning rise	11203 Dec 24 10:06	27° \mathbb{X} 59'45	
	11203 Feb 14 07:44	0° \mathbb{X}		direct	11203 Dec 26 14:12	27° \mathbb{X} 44'25	
				asc. node	11204 Jan 01 12:43	29° \mathbb{X} 47'11	
superior conj	11203 Feb 15 06:37	1° \mathbb{X} 41'40	0°14'25		11204 Jan 01 19:56	0° \mathbb{Z}	
minimum elong	11203 Feb 15 07:48	1° \mathbb{X} 46'54	0°14'36	morning max el	11204 Jan 03 23:34	1° \mathbb{Z} 49'50	18°37'17
behind sun begin	11203 Feb 15 04:35	1° \mathbb{X} 32'40		morning set	11204 Jan 20 01:46	27° \mathbb{Z} 37'53	
behind sun end	11203 Feb 15 11:01	2° \mathbb{X} 01'06			11204 Jan 21 07:04	0° \approx	
desc. node	11203 Feb 17 03:27	4° \mathbb{X} 58'34					
max. Earth dist.	11203 Feb 22 21:21	14° \mathbb{X} 46'10	1.42113 AU	superior conj	11204 Jan 28 21:18	14° \approx 32'26	0°46'34
evening rise	11203 Feb 28 08:23	23° \mathbb{X} 40'43		minimum elong	11204 Jan 29 00:07	14° \approx 45'32	0°46'39
	11203 Mar 04 08:38	0° \mathbb{Y}		desc. node	11204 Feb 04 00:13	25° \approx 39'40	
	11203 Mar 25 04:22	0° \mathbb{B}		max. Earth dist.	11204 Feb 05 05:33	27° \approx 48'12	1.39993 AU
evening max el	11203 Apr 02 12:47	9° \mathbb{B} 47'36	22°34'42		11204 Feb 06 11:59	0° \mathbb{X}	
retrograde	11203 Apr 12 10:05	15° \mathbb{B} 38'08		evening rise	11204 Feb 09 08:05	4° \mathbb{X} 49'08	
asc. node	11203 Apr 12 13:17	15° \mathbb{B} 38'03			11204 Feb 25 12:20	0° \mathbb{Y}	
evening set	11203 Apr 17 05:05	13° \mathbb{B} 38'48		evening max el	11204 Mar 15 03:11	23° \mathbb{Y} 36'07	23°55'11
inferior conj	11203 Apr 22 12:57	7° \mathbb{B} 15'53	2°41'50		11204 Mar 25 00:00	0° \mathbb{B}	
minimum elong	11203 Apr 22 10:58	7° \mathbb{B} 22'48	2°41'03	retrograde	11204 Mar 26 03:58	0° \mathbb{B} 05'44	
min. Earth dist.	11203 Apr 22 07:35	7° \mathbb{B} 34'34	0.68715 AU		11204 Mar 27 07:09	30° \mathbb{R} \mathbb{Y}	
morning rise	11203 Apr 27 16:43	1° \mathbb{B} 06'17		asc. node	11204 Mar 29 10:34	29° \mathbb{Y} 15'47	
	11203 Apr 29 06:44	30° \mathbb{R} \mathbb{Y}		evening set	11204 Mar 31 10:41	27° \mathbb{Y} 52'46	
direct	11203 May 02 07:22	29° \mathbb{Y} 11'07		min. Earth dist.	11204 Apr 05 04:03	22° \mathbb{Y} 23'51	0.68485 AU
	11203 May 05 13:26	0° \mathbb{B}		inferior conj	11204 Apr 05 21:38	21° \mathbb{Y} 24'02	2°10'25
morning max el	11203 May 11 07:59	4° \mathbb{B} 26'12	21°43'05	minimum elong	11204 Apr 05 19:27	21° \mathbb{Y} 31'28	2°09'36
desc. node	11203 May 16 04:40	9° \mathbb{B} 53'56		morning rise	11204 Apr 11 04:16	15° \mathbb{Y} 21'15	
	11203 May 30 18:38	0° \mathbb{I}		direct	11204 Apr 15 05:48	13° \mathbb{Y} 47'48	
morning set	11203 Jun 12 14:08	19° \mathbb{I} 39'56		morning max el	11204 Apr 23 03:47	18° \mathbb{Y} 16'42	20°25'12
max. Earth dist.	11203 Jun 18 16:51	29° \mathbb{I} 35'28	1.41874 AU	desc. node	11204 May 02 01:29	29° \mathbb{Y} 07'40	
	11203 Jun 18 22:46	0° \mathbb{G}			11204 May 02 16:42	0° \mathbb{B}	
				morning set	11204 May 21 19:42	28° \mathbb{B} 22'19	
superior conj	11203 Jun 26 07:24	12° \mathbb{G} 31'10	-1°43'22		11204 May 22 20:55	0° \mathbb{I}	
minimum elong	11203 Jun 26 13:58	12° \mathbb{G} 59'54	1°43'19	max. Earth dist.	11204 May 31 00:46	12° \mathbb{I} 52'39	1.43742 AU
	11203 Jul 06 01:00	0° Ω					

superior conj	11204 Jun 06 06:54	23° Π 04'32	-2°05'47	superior conj	11205 May 17 06:54	2° Π 39'38	-2°13'07
minimum elong	11204 Jun 06 12:03	23° Π 25'53	2°06'11	minimum elong	11205 May 17 06:03	2° Π 36'16	2°13'40
	11204 Jun 10 10:11	0° \mathfrak{E}		evening rise	11205 May 31 13:36	25° Π 53'34	
evening rise	11204 Jun 18 20:05	14° \mathfrak{E} 29'40			11205 Jun 03 00:56	0° \mathfrak{E}	
asc. node	11204 Jun 25 08:52	25° \mathfrak{E} 48'25		asc. node	11205 Jun 12 05:52	14° \mathfrak{E} 55'05	
	11204 Jun 27 21:29	0° Ω		evening max el	11205 Jun 19 11:52	24° \mathfrak{E} 23'21	18°16'59
evening max el	11204 Jul 05 22:05	10° Ω 55'31	18°04'20	retrograde	11205 Jun 25 20:50	27° \mathfrak{E} 46'43	
retrograde	11204 Jul 12 09:32	14° Ω 16'46		evening set	11205 Jun 28 20:16	26° \mathfrak{E} 58'39	
evening set	11204 Jul 15 00:53	13° Ω 42'32		inferior conj	11205 Jul 04 18:30	21° \mathfrak{E} 34'09	2°46'17
inferior conj	11204 Jul 21 11:10	8° Ω 35'21	2°04'39	minimum elong	11205 Jul 04 20:46	21° \mathfrak{E} 27'40	2°45'12
minimum elong	11204 Jul 21 13:54	8° Ω 28'23	2°03'20	min. Earth dist.	11205 Jul 07 05:15	18° \mathfrak{E} 46'58	0.64030 AU
min. Earth dist.	11204 Jul 24 10:55	5° Ω 33'09	0.61895 AU	morning rise	11205 Jul 10 19:52	15° \mathfrak{E} 17'23	
morning rise	11204 Jul 28 00:35	2° Ω 30'21		desc. node	11205 Jul 15 22:01	12° \mathfrak{E} 47'51	
desc. node	11204 Jul 29 00:49	1° Ω 50'46		direct	11205 Jul 17 11:42	12° \mathfrak{E} 39'28	
direct	11204 Aug 03 16:53	0° Ω 08'57		morning max el	11205 Jul 31 06:37	20° \mathfrak{E} 41'09	27°36'06
morning max el	11204 Aug 17 21:14	8° Ω 10'49	27°57'30		11205 Aug 08 07:19	0° Ω	
	11204 Sep 03 15:10	0° \mathfrak{M}			11205 Aug 27 17:28	0° \mathfrak{M}	
	11204 Sep 20 07:10	0° \mathfrak{L}		morning set	11205 Sep 04 07:11	14° \mathfrak{M} 15'21	
morning set	11204 Sep 20 14:11	0° \mathfrak{L} 35'49		asc. node	11205 Sep 08 06:10	22° \mathfrak{M} 17'31	
asc. node	11204 Sep 21 09:26	2° \mathfrak{L} 14'57		max. Earth dist.	11205 Sep 09 02:35	24° \mathfrak{M} 03'59	1.32763 AU
max. Earth dist.	11204 Sep 26 03:12	12° \mathfrak{L} 19'48	1.31832 AU		11205 Sep 11 21:42	0° \mathfrak{L}	
superior conj	11204 Sep 28 01:17	16° \mathfrak{L} 31'54	1°01'37	superior conj	11205 Sep 12 07:16	0° \mathfrak{L} 51'20	0°38'54
minimum elong	11204 Sep 27 23:04	16° \mathfrak{L} 19'43	1°01'22	minimum elong	11205 Sep 12 05:32	0° \mathfrak{L} 41'59	0°38'30
	11204 Oct 04 04:24	0° \mathfrak{M}		evening rise	11205 Sep 19 06:58	15° \mathfrak{L} 57'22	
evening rise	11204 Oct 04 19:39	1° \mathfrak{M} 22'17			11205 Sep 26 05:04	0° \mathfrak{M}	
	11204 Oct 20 05:31	0° \mathfrak{J}		evening max el	11205 Oct 11 15:33	22° \mathfrak{M} 25'56	22°52'51
desc. node	11204 Oct 24 22:06	6° \mathfrak{J} 27'28		desc. node	11205 Oct 11 19:22	22° \mathfrak{M} 35'09	
evening max el	11204 Oct 30 05:00	12° \mathfrak{J} 18'54	24°33'25	retrograde	11205 Oct 24 20:16	28° \mathfrak{M} 59'49	
retrograde	11204 Nov 12 23:12	19° \mathfrak{J} 12'31		evening set	11205 Oct 28 16:52	28° \mathfrak{M} 27'23	
evening set	11204 Nov 18 06:17	18° \mathfrak{J} 10'16		min. Earth dist.	11205 Nov 05 00:16	25° \mathfrak{M} 07'55	0.55063 AU
min. Earth dist.	11204 Nov 23 16:20	15° \mathfrak{J} 21'58	0.56363 AU	inferior conj	11205 Nov 06 07:00	24° \mathfrak{M} 23'55	-5°46'12
inferior conj	11204 Nov 26 04:06	13° \mathfrak{J} 47'44	-5°35'29	minimum elong	11205 Nov 06 04:23	24° \mathfrak{M} 27'40	5°45'33
minimum elong	11204 Nov 26 09:16	13° \mathfrak{J} 39'35	5°34'16	morning rise	11205 Nov 14 17:31	20° \mathfrak{M} 34'54	
morning rise	11204 Dec 04 14:25	9° \mathfrak{J} 44'42		direct	11205 Nov 17 19:48	20° \mathfrak{M} 12'36	
direct	11204 Dec 07 02:00	9° \mathfrak{J} 28'02		morning max el	11205 Nov 29 03:17	25° \mathfrak{M} 34'00	20°54'24
morning max el	11204 Dec 16 20:16	14° \mathfrak{J} 07'43	19°34'26		11205 Dec 03 03:40	0° \mathfrak{J}	
asc. node	11204 Dec 18 09:47	15° \mathfrak{J} 44'31		asc. node	11205 Dec 05 06:47	2° \mathfrak{J} 51'14	
	11204 Dec 27 22:26	0° \mathfrak{Z}		morning set	11205 Dec 18 12:50	26° \mathfrak{J} 50'16	
morning set	11205 Jan 03 04:46	12° \mathfrak{Z} 08'12			11205 Dec 20 01:18	0° \mathfrak{Z}	
superior conj	11205 Jan 11 03:51	28° \mathfrak{Z} 06'34	1°10'52	superior conj	11205 Dec 25 21:57	12° \mathfrak{Z} 12'07	1°27'22
minimum elong	11205 Jan 11 06:46	28° \mathfrak{Z} 20'57	1°11'06	minimum elong	11205 Dec 26 00:09	12° \mathfrak{Z} 23'22	1°27'50
	11205 Jan 12 03:02	0° \mathfrak{X}		max. Earth dist.	11205 Dec 30 20:10	22° \mathfrak{Z} 05'22	1.35700 AU
max. Earth dist.	11205 Jan 17 11:21	10° \mathfrak{X} 08'30	1.37775 AU	evening rise	11206 Jan 03 19:39	29° \mathfrak{Z} 40'52	
desc. node	11205 Jan 20 21:02	16° \mathfrak{X} 17'29			11206 Jan 03 23:46	0° \mathfrak{X}	
evening rise	11205 Jan 21 04:45	16° \mathfrak{X} 51'37		desc. node	11206 Jan 07 17:53	6° \mathfrak{X} 48'14	
	11205 Jan 28 23:22	0° \mathfrak{H}			11206 Jan 22 03:58	0° \mathfrak{H}	
	11205 Feb 18 23:26	0° \mathfrak{Y}		evening max el	11206 Feb 08 06:06	21° \mathfrak{H} 14'52	26°18'46
evening max el	11205 Feb 25 16:32	7° \mathfrak{Y} 26'26	25°12'19	retrograde	11206 Feb 21 02:24	28° \mathfrak{H} 31'33	
retrograde	11205 Mar 09 17:47	14° \mathfrak{Y} 25'43		evening set	11206 Feb 27 08:31	26° \mathfrak{H} 00'24	
evening set	11205 Mar 15 12:24	12° \mathfrak{Y} 01'49		asc. node	11206 Mar 03 05:10	22° \mathfrak{H} 02'22	
asc. node	11205 Mar 16 07:52	11° \mathfrak{Y} 17'50		min. Earth dist.	11206 Mar 03 12:18	21° \mathfrak{H} 41'04	0.66762 AU
min. Earth dist.	11205 Mar 19 22:22	7° \mathfrak{Y} 07'54	0.67823 AU	inferior conj	11206 Mar 05 05:41	19° \mathfrak{H} 34'35	0°38'58
inferior conj	11205 Mar 21 03:53	5° \mathfrak{Y} 31'44	1°29'29	minimum elong	11206 Mar 05 04:42	19° \mathfrak{H} 37'37	0°38'46
minimum elong	11205 Mar 21 02:00	5° \mathfrak{Y} 37'52	1°28'49	morning rise	11206 Mar 11 01:43	13° \mathfrak{H} 49'54	
	11205 Mar 26 03:23	30° \mathfrak{K}		direct	11206 Mar 14 04:10	12° \mathfrak{H} 55'29	
morning rise	11205 Mar 26 15:57	29° \mathfrak{K} 37'07		morning max el	11206 Mar 20 17:47	16° \mathfrak{H} 26'55	18°33'01
direct	11205 Mar 30 05:18	28° \mathfrak{K} 24'24			11206 Mar 31 00:17	0° \mathfrak{Y}	
	11205 Apr 03 13:45	0° \mathfrak{Y}		desc. node	11206 Apr 05 18:55	8° \mathfrak{Y} 56'16	
morning max el	11205 Apr 06 07:16	2° \mathfrak{Y} 18'19	19°21'08	morning set	11206 Apr 10 13:49	16° \mathfrak{Y} 28'11	
desc. node	11205 Apr 18 22:14	18° \mathfrak{Y} 51'13			11206 Apr 19 04:27	0° \mathfrak{B}	
greatest brilliancy	11205 Apr 19 01:46	19° \mathfrak{Y} 04'18	-0.7m	superior conj	11206 Apr 26 15:13	11° \mathfrak{B} 39'07	-2°00'28
	11205 Apr 26 07:23	0° \mathfrak{B}		minimum elong	11206 Apr 26 07:23	11° \mathfrak{B} 08'30	2°00'23
morning set	11205 Apr 30 20:01	6° \mathfrak{B} 57'07		max. Earth dist.	11206 Apr 26 09:21	11° \mathfrak{B} 16'09	1.45666 AU
max. Earth dist.	11205 May 13 14:51	26° \mathfrak{B} 51'10	1.45049 AU		11206 May 08 07:40	0° \mathfrak{B}	
	11205 May 15 14:41	0° \mathfrak{H}					

evening rise	11206 May 12 06:56	6°♊17'16		superior conj	11207 Apr 06 00:50	20°♊49'09	-1°29'34
greatest brilliancy	11206 May 20 19:50	19°♊48'42	-0.8m	minimum elong	11207 Apr 05 15:44	20°♊13'11	1°28'45
	11206 May 27 13:18	0°♊		max. Earth dist.	11207 Apr 09 05:38	25°♊51'16	1.45536 AU
asc. node	11206 May 30 02:57	3°♊31'33			11207 Apr 11 21:14	0°♊	
evening max el	11206 Jun 02 23:23	8°♊01'25	18°47'25	evening rise	11207 Apr 22 03:33	15°♊54'40	
retrograde	11206 Jun 09 14:51	11°♊40'14			11207 May 01 08:08	0°♊	
evening set	11206 Jun 12 22:35	10°♊36'52		greatest brilliancy	11207 May 05 13:06	6°♊19'01	-0.7m
inferior conj	11206 Jun 18 12:30	4°♊56'28	3°09'04	asc. node	11207 May 17 00:06	21°♊27'58	
minimum elong	11206 Jun 18 13:44	4°♊52'36	3°08'16	evening max el	11207 May 17 06:28	21°♊44'12	19°34'29
min. Earth dist.	11206 Jun 20 08:19	2°♊40'12	0.65846 AU	retrograde	11207 May 24 12:32	25°♊50'44	
	11206 Jun 22 16:32	30°♊		evening set	11207 May 28 05:02	24°♊31'26	
morning rise	11206 Jun 24 04:09	28°♊35'17		inferior conj	11207 Jun 02 13:56	18°♊36'32	3°16'35
direct	11206 Jun 30 13:55	25°♊51'56		minimum elong	11207 Jun 02 14:02	18°♊36'13	3°15'56
desc. node	11206 Jul 02 19:09	26°♊09'04		min. Earth dist.	11207 Jun 03 18:54	17°♊00'34	0.67240 AU
	11206 Jul 09 17:21	0°♊		morning rise	11207 Jun 07 22:39	12°♊15'30	
morning max el	11206 Jul 13 17:18	3°♊39'44	26°43'42	direct	11207 Jun 13 22:24	9°♊37'04	
	11206 Aug 02 16:15	0°♊		desc. node	11207 Jun 19 16:12	11°♊31'47	
morning set	11206 Aug 18 13:13	27°♊21'37		morning max el	11207 Jun 26 03:41	16°♊56'15	25°29'04
	11206 Aug 19 22:18	0°♊			11207 Jul 07 00:29	0°♊	
max. Earth dist.	11206 Aug 22 16:18	5°♊23'53	1.34210 AU		11207 Jul 26 15:10	0°♊	
asc. node	11206 Aug 26 02:55	12°♊23'02		morning set	11207 Aug 01 04:29	9°♊45'10	
				max. Earth dist.	11207 Aug 04 20:15	16°♊30'21	1.36114 AU
superior conj	11206 Aug 27 07:11	14°♊49'30	0°11'29				
minimum elong	11206 Aug 27 06:35	14°♊46'22	0°11'08	superior conj	11207 Aug 10 22:18	28°♊19'25	-0°19'47
behind sun begin	11206 Aug 27 02:23	14°♊24'32		minimum elong	11207 Aug 10 23:32	28°♊25'36	0°19'56
behind sun end	11206 Aug 27 10:47	15°♊08'15			11207 Aug 11 18:23	0°♊	
	11206 Sep 03 11:59	0°♊		asc. node	11207 Aug 12 23:42	2°♊27'57	
evening rise	11206 Sep 03 16:51	0°♊25'27		evening rise	11207 Aug 18 23:09	14°♊40'54	
	11206 Sep 20 20:24	0°♊			11207 Aug 26 21:17	0°♊	
evening max el	11206 Sep 23 08:08	2°♊41'58	21°16'53	evening max el	11207 Sep 05 13:32	13°♊36'25	19°57'32
desc. node	11206 Sep 28 16:41	6°♊50'11		retrograde	11207 Sep 15 22:20	18°♊45'45	
retrograde	11206 Oct 05 08:05	8°♊39'26		desc. node	11207 Sep 15 14:02	18°♊45'25	
evening set	11206 Oct 07 21:36	8°♊24'13		evening set	11207 Sep 17 20:18	18°♊35'58	
inferior conj	11206 Oct 16 23:17	4°♊29'07	-4°59'28	inferior conj	11207 Sep 26 19:16	14°♊35'40	-3°24'03
minimum elong	11206 Oct 16 14:00	4°♊42'09	4°57'06	minimum elong	11207 Sep 26 10:28	14°♊49'00	3°20'56
min. Earth dist.	11206 Oct 17 07:15	4°♊17'55	0.54585 AU	min. Earth dist.	11207 Sep 28 16:19	13°♊27'28	0.55054 AU
morning rise	11206 Oct 25 07:04	0°♊38'30		morning rise	11207 Oct 04 23:18	10°♊22'24	
direct	11206 Oct 29 04:10	0°♊06'06		direct	11207 Oct 09 15:49	9°♊34'31	
morning max el	11206 Nov 10 21:21	6°♊10'53	22°33'45	morning max el	11207 Oct 23 08:44	16°♊19'19	24°21'37
asc. node	11206 Nov 22 03:43	20°♊51'42			11207 Nov 03 08:01	0°♊	
	11206 Nov 27 06:14	0°♊		asc. node	11207 Nov 09 00:35	9°♊32'49	
morning set	11206 Dec 02 23:45	11°♊37'42		morning set	11207 Nov 17 11:35	26°♊24'26	
					11207 Nov 19 03:36	0°♊	
superior conj	11206 Dec 10 00:11	26°♊39'06	1°36'41				
minimum elong	11206 Dec 10 01:16	26°♊44'51	1°37'18	superior conj	11207 Nov 24 07:44	11°♊18'54	1°39'24
	11206 Dec 11 14:09	0°♊		minimum elong	11207 Nov 24 07:38	11°♊18'23	1°40'01
max. Earth dist.	11206 Dec 13 12:04	3°♊59'21	1.33943 AU	max. Earth dist.	11207 Nov 26 11:48	16°♊01'29	1.32614 AU
evening rise	11206 Dec 18 01:06	13°♊07'13		evening rise	11207 Dec 01 17:37	27°♊01'05	
desc. node	11206 Dec 25 14:48	27°♊07'18			11207 Dec 03 05:14	0°♊	
	11206 Dec 27 06:50	0°♊		desc. node	11207 Dec 12 11:49	17°♊08'12	
	11207 Jan 17 04:33	0°♊			11207 Dec 20 14:10	0°♊	
evening max el	11207 Jan 21 19:42	4°♊53'00	27°07'08	evening max el	11208 Jan 04 07:46	18°♊07'42	27°30'25
retrograde	11207 Feb 04 05:04	12°♊16'12		retrograde	11208 Jan 18 01:00	25°♊29'49	
evening set	11207 Feb 10 21:05	9°♊42'58		evening set	11208 Jan 24 23:38	23°♊01'18	
min. Earth dist.	11207 Feb 14 19:35	5°♊57'12	0.65327 AU	min. Earth dist.	11208 Jan 28 18:07	19°♊46'20	0.63559 AU
inferior conj	11207 Feb 17 00:50	3°♊27'43	-0°21'03	inferior conj	11208 Jan 31 10:32	17°♊03'21	-1°30'00
minimum elong	11207 Feb 17 01:26	3°♊26'01	0°20'27	minimum elong	11208 Jan 31 13:26	16°♊55'59	1°28'19
asc. node	11207 Feb 18 02:26	2°♊16'31		asc. node	11208 Feb 04 23:42	12°♊59'24	
	11207 Feb 20 08:33	30°♊		morning rise	11208 Feb 07 05:23	11°♊46'25	
morning rise	11207 Feb 23 07:14	27°♊55'28		direct	11208 Feb 09 14:50	11°♊18'29	
direct	11207 Feb 26 00:20	27°♊16'05		morning max el	11208 Feb 16 02:59	14°♊39'26	17°47'37
	11207 Mar 03 17:39	0°♊			11208 Feb 26 21:41	0°♊	
morning max el	11207 Mar 04 09:19	0°♊36'51	18°01'42	morning set	11208 Mar 03 13:42	9°♊40'09	
morning set	11207 Mar 22 12:20	27°♊25'31		desc. node	11208 Mar 09 12:17	19°♊48'20	
desc. node	11207 Mar 23 15:36	29°♊17'07			11208 Mar 15 15:21	0°♊	
	11207 Mar 24 02:05	0°♊					
				superior conj	11208 Mar 16 04:11	0°♊52'30	-0°48'50

minimum elong	11208 Mar 15 23:02	0° Υ 31'26	0°48'02	superior conj	11209 Feb 25 08:10	12° X 05'48	-0°07'24
max. Earth dist.	11208 Mar 22 00:30	10° Υ 17'43	1.44675 AU	minimum elong	11209 Feb 25 07:31	12° X 03'00	0°07'02
evening rise	11208 Mar 31 14:57	25° Υ 16'57		behind sun begin	11209 Feb 24 23:50	11° X 30'01	
	11208 Apr 03 17:05	0° B		behind sun end	11209 Feb 25 15:12	12° X 35'55	
	11208 Apr 24 13:47	0° Π		max. Earth dist.	11209 Mar 04 15:22	24° X 18'33	1.43186 AU
evening max el	11208 Apr 29 07:54	5° Π 28'03	20°36'16		11209 Mar 08 04:02	0° Υ	
asc. node	11208 May 02 21:18	8° Π 31'23		evening rise	11209 Mar 11 08:43	5° Υ 02'57	
retrograde	11208 May 07 11:24	10° Π 12'07			11209 Mar 28 01:11	0° B	
evening set	11208 May 11 13:25	8° Π 36'53		evening max el	11209 Apr 12 03:53	19° B 12'52	21°49'24
inferior conj	11208 May 16 20:07	2° Π 29'11	3°11'31	asc. node	11209 Apr 19 18:33	24° B 26'49	
minimum elong	11208 May 16 19:12	2° Π 32'23	3°10'53	retrograde	11209 Apr 21 09:30	24° B 39'32	
min. Earth dist.	11208 May 17 11:04	1° Π 37'43	0.68173 AU	evening set	11209 Apr 25 21:57	22° B 48'53	
	11208 May 18 16:00	30° R B		inferior conj	11209 May 01 04:49	16° B 30'40	2°55'34
morning rise	11208 May 22 00:44	26° B 11'07		minimum elong	11209 May 01 03:07	16° B 36'35	2°54'51
direct	11208 May 27 12:12	23° B 45'36		min. Earth dist.	11209 May 01 06:42	16° B 24'04	0.68646 AU
desc. node	11208 Jun 05 13:11	28° B 26'36		morning rise	11209 May 06 08:06	10° B 17'22	
	11208 Jun 07 04:34	0° Π		direct	11209 May 11 06:22	8° B 10'07	
morning max el	11208 Jun 07 13:32	0° Π 22'30	24°02'04	morning max el	11209 May 21 00:36	13° B 55'41	22°32'21
	11208 Jun 29 21:30	0° B		desc. node	11209 May 23 10:07	16° B 29'03	
morning set	11208 Jul 13 00:12	21° B 14'13			11209 Jun 02 23:34	0° Π	
max. Earth dist.	11208 Jul 16 18:00	27° B 46'41	1.38325 AU		11209 Jun 22 19:54	0° B	
	11208 Jul 17 23:47	0° Ω		morning set	11209 Jun 23 19:25	1° B 35'41	
				max. Earth dist.	11209 Jun 28 15:51	9° B 39'49	1.40624 AU
superior conj	11208 Jul 24 01:08	11° Ω 12'46	-0°53'17	superior conj	11209 Jul 06 11:26	23° B 19'03	-1°26'16
minimum elong	11208 Jul 24 04:45	11° Ω 29'57	0°53'11	minimum elong	11209 Jul 06 17:19	23° B 45'34	1°26'07
asc. node	11208 Jul 29 20:32	22° Ω 28'37			11209 Jul 10 03:21	0° Ω	
evening rise	11208 Aug 01 23:15	28° Ω 36'46		evening rise	11209 Jul 16 13:49	12° Ω 03'29	
	11208 Aug 02 16:12	0° B		asc. node	11209 Jul 16 17:24	12° Ω 20'24	
evening max el	11208 Aug 18 08:31	25° B 19'02	18°59'23		11209 Jul 26 15:19	0° B	
retrograde	11208 Aug 27 02:40	29° B 41'15		evening max el	11209 Aug 01 13:47	7° B 43'18	18°22'22
evening set	11208 Aug 28 23:37	29° B 30'02		retrograde	11209 Aug 09 01:44	11° B 29'43	
desc. node	11208 Sep 01 11:23	28° B 15'29		evening set	11209 Aug 11 04:44	11° B 12'18	
inferior conj	11208 Sep 06 07:43	25° B 14'17	-1°30'57	inferior conj	11209 Aug 18 17:39	6° B 36'26	0°11'30
minimum elong	11208 Sep 06 03:48	25° B 21'07	1°29'32	minimum elong	11209 Aug 18 18:03	6° B 35'37	0°11'02
min. Earth dist.	11208 Sep 09 06:00	23° B 12'16	0.56390 AU	transit middle	11209 Aug 18 18:03	6° B 35'37	0°11'02
morning rise	11208 Sep 14 04:49	20° B 24'40		transit begin	11209 Aug 18 15:29	6° B 40'51	
direct	11208 Sep 19 16:26	19° B 13'39		transit end	11209 Aug 18 20:38	6° B 30'21	
morning max el	11208 Oct 03 21:29	26° B 31'29	26°00'52	desc. node	11209 Aug 19 08:43	6° B 05'32	
	11208 Oct 07 05:26	0° B		min. Earth dist.	11209 Aug 22 01:50	3° B 54'00	0.58349 AU
asc. node	11208 Oct 25 21:26	28° B 44'30		morning rise	11209 Aug 26 03:51	1° B 10'42	
	11208 Oct 26 12:57	0° B			11209 Aug 29 00:09	30° R Ω	
morning set	11208 Oct 31 22:41	11° B 06'12		direct	11209 Sep 01 07:40	29° Ω 30'56	
					11209 Sep 04 16:45	0° B	
superior conj	11208 Nov 07 18:24	26° B 05'14	1°36'02	morning max el	11209 Sep 15 16:12	7° B 12'26	27°14'50
minimum elong	11208 Nov 07 17:17	25° B 59'01	1°36'30		11209 Oct 02 18:42	0° B	
max. Earth dist.	11208 Nov 08 17:41	28° B 14'11	1.31763 AU	asc. node	11209 Oct 12 18:14	18° B 17'50	
	11208 Nov 09 12:52	0° B		morning set	11209 Oct 16 07:17	25° B 37'14	
evening rise	11208 Nov 14 18:18	11° B 15'38			11209 Oct 18 08:14	0° B	
	11208 Nov 24 10:25	0° B		superior conj	11209 Oct 23 06:09	10° B 51'06	1°26'58
desc. node	11208 Nov 28 08:56	6° B 43'34		minimum elong	11209 Oct 23 04:17	10° B 40'40	1°27'08
	11208 Dec 15 20:47	0° \approx		max. Earth dist.	11209 Oct 23 02:34	10° B 31'08	1.31403 AU
evening max el	11208 Dec 16 16:09	0° \approx 46'44	27°22'38	evening rise	11209 Oct 30 00:35	25° B 43'15	
retrograde	11208 Dec 30 13:30	8° \approx 03'01			11209 Nov 01 01:25	0° B	
evening set	11209 Jan 06 13:08	5° \approx 48'07		desc. node	11209 Nov 15 06:06	25° B 42'28	
min. Earth dist.	11209 Jan 10 06:35	2° \approx 57'35	0.61540 AU		11209 Nov 18 03:45	0° B	
inferior conj	11209 Jan 13 07:39	0° \approx 13'42	-2°45'39	evening max el	11209 Nov 28 18:25	12° B 39'10	26°40'40
minimum elong	11209 Jan 13 13:18	0° \approx 01'01	2°42'54	retrograde	11209 Dec 12 17:05	19° B 47'00	
	11209 Jan 13 13:45	30° R B		evening set	11209 Dec 19 09:36	17° B 55'19	
morning rise	11209 Jan 20 16:09	25° B 15'05		min. Earth dist.	11209 Dec 23 08:31	15° B 18'27	0.59409 AU
asc. node	11209 Jan 21 20:54	24° B 59'01		inferior conj	11209 Dec 26 12:40	12° B 49'21	-4°02'26
direct	11209 Jan 22 20:21	24° B 54'53		minimum elong	11209 Dec 26 20:32	12° B 33'53	3°59'21
morning max el	11209 Jan 29 19:32	28° B 25'55	17°51'27	morning rise	11210 Jan 03 10:14	8° B 11'34	
	11209 Jan 31 06:45	0° \approx		direct	11210 Jan 05 12:47	7° B 55'30	
morning set	11209 Feb 14 11:46	22° \approx 52'58		asc. node	11210 Jan 08 18:03	8° B 34'58	
	11209 Feb 18 10:42	0° X		morning max el	11210 Jan 13 07:21	11° B 46'07	18°14'34
desc. node	11209 Feb 24 09:00	10° X 26'06					

	11210 Jan 25 09:45	0°♊		morning max el	11210 Dec 27 10:33	24°♊29'10	18°58'49
morning set	11210 Jan 29 00:33	6°♊46'12			11211 Jan 01 01:18	0°♊	
				morning set	11211 Jan 12 23:23	21°♊05'59	
superior conj	11210 Feb 07 11:22	24°♊23'50	0°28'59		11211 Jan 17 11:40	0°♊	
minimum elong	11210 Feb 07 13:28	24°♊33'19	0°29'05				
	11210 Feb 10 14:35	0°♋		superior conj	11211 Jan 21 09:17	7°♊33'44	0°57'52
desc. node	11210 Feb 11 05:45	1°♋06'44		minimum elong	11211 Jan 21 12:17	7°♊48'04	0°57'59
max. Earth dist.	11210 Feb 15 01:40	7°♋43'05	1.41235 AU	max. Earth dist.	11211 Jan 28 08:37	20°♊26'56	1.39045 AU
evening rise	11210 Feb 19 20:08	15°♋38'40		desc. node	11211 Jan 29 02:30	21°♊46'22	
	11210 Feb 28 23:30	0°♌		evening rise	11211 Feb 01 04:55	27°♊10'14	
	11210 Mar 23 00:11	0°♌			11211 Feb 02 20:54	0°♋	
evening max el	11210 Mar 25 19:53	3°♌00'21	23°09'01		11211 Feb 22 12:39	0°♌	
retrograde	11210 Apr 05 05:14	9°♌08'25		evening max el	11211 Mar 08 09:46	16°♌50'09	24°28'58
asc. node	11210 Apr 06 15:48	8°♌58'32		retrograde	11211 Mar 19 21:19	23°♌33'03	
evening set	11210 Apr 10 05:03	7°♌03'19		asc. node	11211 Mar 24 13:05	21°♌54'42	
min. Earth dist.	11210 Apr 15 03:31	1°♌13'54	0.68667 AU	evening set	11211 Mar 25 09:09	21°♌15'10	
inferior conj	11210 Apr 15 14:02	0°♌37'33	2°29'41	min. Earth dist.	11211 Mar 29 23:16	16°♌01'15	0.68253 AU
minimum elong	11210 Apr 15 11:55	0°♌44'53	2°28'53	inferior conj	11211 Mar 30 21:53	14°♌45'34	1°54'14
	11210 Apr 16 00:55	30°♌		minimum elong	11211 Mar 30 19:46	14°♌52'40	1°53'28
morning rise	11210 Apr 20 18:40	24°♌30'28		morning rise	11211 Apr 05 06:30	8°♌46'06	
direct	11210 Apr 25 03:43	22°♌44'18		direct	11211 Apr 09 02:50	7°♌21'28	
morning max el	11210 May 03 16:16	27°♌38'44	21°08'28	morning max el	11211 Apr 16 15:12	11°♌33'34	19°56'10
	11210 May 05 21:24	0°♍		desc. node	11211 Apr 27 03:44	24°♌48'02	
desc. node	11210 May 10 06:58	5°♍20'51			11211 Apr 30 18:01	0°♍	
	11210 May 27 12:42	0°♎		morning set	11211 May 13 13:15	19°♍18'55	
morning set	11210 Jun 03 12:44	10°♎47'58			11211 May 20 10:17	0°♎	
max. Earth dist.	11210 Jun 10 19:46	22°♎27'53	1.42730 AU	max. Earth dist.	11211 May 24 07:00	6°♎06'18	1.44382 AU
	11210 Jun 15 09:06	0°♏					
				superior conj	11211 May 29 13:59	14°♎36'37	-2°11'08
superior conj	11210 Jun 18 00:48	4°♏29'12	-1°54'17	minimum elong	11211 May 29 17:07	14°♎49'21	2°11'39
minimum elong	11210 Jun 18 07:17	4°♏56'51	1°54'24		11211 Jun 07 20:48	0°♏	
evening rise	11210 Jun 29 14:41	24°♏51'19		evening rise	11211 Jun 11 20:57	6°♏48'29	
	11210 Jul 02 11:32	0°♐		asc. node	11211 Jun 20 11:17	21°♏19'12	
asc. node	11210 Jul 03 14:19	1°♐59'12			11211 Jun 26 05:45	0°♐	
evening max el	11210 Jul 16 01:15	20°♐39'47	18°05'22	evening max el	11211 Jun 29 15:05	3°♐58'14	18°07'25
retrograde	11210 Jul 22 18:17	24°♐05'34		retrograde	11211 Jul 06 00:10	7°♐18'31	
evening set	11210 Jul 25 05:12	23°♐38'10		evening set	11211 Jul 08 19:03	6°♐38'28	
inferior conj	11210 Aug 01 00:13	18°♐41'52	1°30'28	inferior conj	11211 Jul 14 23:42	1°♐23'26	2°24'51
minimum elong	11210 Aug 01 02:39	18°♐36'06	1°29'12	minimum elong	11211 Jul 15 02:20	1°♐16'19	2°23'36
min. Earth dist.	11210 Aug 04 05:26	15°♐40'28	0.60603 AU		11211 Jul 16 06:34	30°♐	
desc. node	11210 Aug 06 06:00	13°♐58'14		min. Earth dist.	11211 Jul 17 18:11	28°♐25'40	0.62841 AU
morning rise	11210 Aug 07 21:17	12°♐48'25		morning rise	11211 Jul 21 07:47	25°♐12'30	
direct	11210 Aug 14 11:11	10°♐40'41		desc. node	11211 Jul 24 03:14	23°♐32'52	
morning max el	11210 Aug 28 18:01	18°♐36'45	27°52'59	direct	11211 Jul 28 00:39	22°♐43'08	
	11210 Sep 07 08:18	0°♑			11211 Aug 10 07:02	0°♑	
	11210 Sep 25 13:27	0°♒		morning max el	11211 Aug 11 01:29	0°♑45'24	27°52'39
asc. node	11210 Sep 29 15:01	8°♒06'34			11211 Sep 01 11:40	0°♑	
morning set	11210 Sep 30 11:34	9°♒52'52		morning set	11211 Sep 14 09:27	23°♑47'39	
max. Earth dist.	11210 Oct 06 10:56	22°♒43'54	1.31538 AU	asc. node	11211 Sep 16 11:46	28°♑05'27	
					11211 Sep 17 09:43	0°♒	
superior conj	11210 Oct 07 17:10	25°♒31'04	1°12'24	max. Earth dist.	11211 Sep 19 14:54	4°♒42'11	1.32172 AU
minimum elong	11210 Oct 07 14:56	25°♒18'42	1°12'17				
	11210 Oct 09 17:38	0°♓		superior conj	11211 Sep 22 01:35	9°♒59'43	0°52'35
evening rise	11210 Oct 14 10:21	10°♓18'16		minimum elong	11211 Sep 21 23:29	9°♒48'19	0°52'15
	11210 Oct 24 09:00	0°♈		evening rise	11211 Sep 28 21:40	24°♒55'11	
desc. node	11210 Nov 02 03:18	13°♈51'03			11211 Oct 01 07:16	0°♓	
evening max el	11210 Nov 10 12:37	23°♈40'01	25°26'41		11211 Oct 19 07:17	0°♈	
	11210 Nov 20 07:35	0°♉		desc. node	11211 Oct 20 00:32	0°♈50'15	
retrograde	11210 Nov 24 09:31	0°♉38'43		evening max el	11211 Oct 22 23:59	3°♈58'35	23°51'02
	11210 Nov 28 11:30	30°♉		retrograde	11211 Nov 05 13:35	10°♈45'12	
evening set	11210 Nov 30 08:26	29°♈17'37		evening set	11211 Nov 10 06:59	9°♈56'28	
min. Earth dist.	11210 Dec 05 00:51	26°♈38'58	0.57381 AU	min. Earth dist.	11211 Nov 16 10:25	6°♈57'14	0.55727 AU
inferior conj	11210 Dec 07 22:22	24°♈40'56	-5°08'56	inferior conj	11211 Nov 18 11:37	5°♈43'27	-5°46'24
minimum elong	11210 Dec 08 05:53	24°♈28'07	5°06'48	minimum elong	11211 Nov 18 13:53	5°♈40'03	5°45'43
morning rise	11210 Dec 16 05:39	20°♈25'31		morning rise	11211 Nov 26 22:42	1°♈48'01	
direct	11210 Dec 18 12:08	20°♈10'00		direct	11211 Nov 29 16:01	1°♈29'23	
asc. node	11210 Dec 26 15:10	23°♈44'22		morning max el	11211 Dec 10 01:36	6°♈25'36	20°05'48

asc. node	11211 Dec 13 12:12	10°♊13'19		asc. node	11212 Nov 29 09:11	27°♍44'34	
	11211 Dec 25 08:46	0°♊			11212 Nov 30 19:38	0°♊	
morning set	11211 Dec 28 04:53	5°♊42'40		morning set	11212 Dec 11 14:25	20°♊27'37	
					11212 Dec 16 02:48	0°♊	
superior conj	11212 Jan 04 21:16	21°♊22'56	1°18'47	superior conj	11212 Dec 18 19:15	5°♊38'52	1°32'09
minimum elong	11212 Jan 04 23:57	21°♊36'24	1°19'07	minimum elong	11212 Dec 18 20:59	5°♊47'57	1°32'42
	11212 Jan 09 06:36	0°♊		max. Earth dist.	11212 Dec 23 02:48	14°♊28'58	1.34901 AU
max. Earth dist.	11212 Jan 10 15:30	2°♊36'34	1.36860 AU	evening rise	11212 Dec 27 07:19	22°♊39'34	
evening rise	11212 Jan 14 09:47	9°♊33'43			11212 Dec 31 06:32	0°♊	
desc. node	11212 Jan 15 23:20	12°♊21'42		desc. node	11213 Jan 01 20:13	2°♊47'49	
	11212 Jan 26 13:51	0°♊			11213 Jan 19 07:26	0°♊	
	11212 Feb 18 06:56	0°♊		evening max el	11213 Jan 31 12:32	14°♊24'10	26°41'54
evening max el	11212 Feb 18 23:06	0°♊40'08	25°42'18	retrograde	11213 Feb 13 15:13	21°♊45'32	
retrograde	11212 Mar 02 08:53	7°♊47'57		evening set	11213 Feb 20 01:51	19°♊12'27	
evening set	11212 Mar 08 08:41	5°♊20'11		min. Earth dist.	11213 Feb 24 03:08	15°♊07'47	0.66193 AU
asc. node	11212 Mar 10 10:22	3°♊19'45		asc. node	11213 Feb 25 07:40	13°♊43'46	
min. Earth dist.	11212 Mar 12 15:50	0°♊41'22	0.67423 AU	inferior conj	11213 Feb 26 01:43	12°♊50'09	0°14'40
	11212 Mar 13 04:56	30°♊		minimum elong	11213 Feb 26 01:19	12°♊51'20	0°14'45
inferior conj	11212 Mar 14 02:28	28°♊51'21	1°09'16	transit middle	11213 Feb 26 01:19	12°♊51'20	0°14'45
minimum elong	11212 Mar 14 00:53	28°♊56'24	1°08'45	transit begin	11213 Feb 26 00:10	12°♊54'45	
morning rise	11212 Mar 19 17:38	23°♊00'59		transit end	11213 Feb 26 02:28	12°♊47'56	
direct	11212 Mar 23 02:14	21°♊56'25		morning rise	11213 Mar 04 01:54	7°♊10'41	
morning max el	11212 Mar 29 21:55	25°♊38'54	18°58'44	direct	11213 Mar 07 00:06	6°♊23'16	
	11212 Apr 02 17:58	0°♊		morning max el	11213 Mar 13 10:56	9°♊48'55	18°17'38
greatest brilliancy	11212 Apr 12 10:03	13°♊46'33	-0.8m		11213 Mar 27 19:39	0°♊	
desc. node	11212 Apr 13 00:28	14°♊41'16		desc. node	11213 Mar 30 21:10	4°♊53'20	
morning set	11212 Apr 21 18:36	28°♊10'57		morning set	11213 Apr 02 00:05	8°♊16'58	
	11212 Apr 22 22:43	0°♊			11213 Apr 15 17:02	0°♊	
max. Earth dist.	11212 May 05 23:34	20°♊18'53	1.45401 AU				
superior conj	11212 May 08 05:36	23°♊51'10	-2°10'16	superior conj	11213 Apr 17 12:08	2°♊48'44	-1°49'12
minimum elong	11212 May 08 01:28	23°♊34'53	2°10'39	minimum elong	11213 Apr 17 02:53	2°♊12'33	1°48'44
	11212 May 12 02:57	0°♊		max. Earth dist.	11213 Apr 18 18:45	4°♊48'27	1.45693 AU
evening rise	11212 May 23 04:16	17°♊46'25		evening rise	11213 May 03 11:52	27°♊47'06	
	11212 May 30 17:02	0°♊			11213 May 04 21:50	0°♊	
asc. node	11212 Jun 06 08:18	10°♊13'49		greatest brilliancy	11213 May 14 06:56	14°♊34'36	-0.8m
evening max el	11212 Jun 12 04:08	17°♊30'37	18°27'45	asc. node	11213 May 24 05:24	28°♊34'36	
retrograde	11212 Jun 18 14:54	20°♊59'17			11213 May 25 11:03	0°♊	
evening set	11212 Jun 21 17:47	20°♊04'50		evening max el	11213 May 26 13:56	1°♊10'54	19°05'32
inferior conj	11212 Jun 27 12:01	14°♊33'07	2°58'01	retrograde	11213 Jun 02 10:54	5°♊00'33	
minimum elong	11212 Jun 27 13:53	14°♊27'33	2°57'04	evening set	11213 Jun 05 22:09	3°♊50'39	
min. Earth dist.	11212 Jun 29 16:25	11°♊57'39	0.64846 AU		11213 Jun 09 20:38	30°♊	
morning rise	11212 Jul 03 08:55	8°♊13'31		inferior conj	11213 Jun 11 09:34	28°♊03'55	3°13'56
direct	11212 Jul 09 22:33	5°♊32'12		minimum elong	11213 Jun 11 10:19	28°♊01'30	3°13'13
desc. node	11212 Jul 10 00:25	5°♊32'13		min. Earth dist.	11213 Jun 12 23:03	26°♊03'42	0.66484 AU
morning max el	11212 Jul 23 11:58	13°♊29'56	27°17'11	morning rise	11213 Jun 16 21:53	21°♊42'05	
	11212 Aug 05 19:26	0°♊		direct	11213 Jun 23 03:43	18°♊59'30	
	11212 Aug 24 02:50	0°♊		desc. node	11213 Jun 26 21:32	19°♊48'25	
morning set	11212 Aug 27 22:15	7°♊14'17		morning max el	11213 Jul 05 22:48	26°♊38'01	26°14'10
max. Earth dist.	11212 Sep 01 10:42	16°♊17'09	1.33320 AU		11213 Jul 09 01:45	0°♊	
asc. node	11212 Sep 02 08:30	18°♊09'37			11213 Jul 30 09:54	0°♊	
superior conj	11212 Sep 05 05:17	24°♊10'45	0°27'48	morning set	11213 Aug 10 22:37	20°♊04'33	
minimum elong	11212 Sep 05 03:56	24°♊03'37	0°27'24	max. Earth dist.	11213 Aug 14 19:59	27°♊29'04	1.34964 AU
	11212 Sep 07 22:37	0°♊			11213 Aug 16 02:47	0°♊	
evening rise	11212 Sep 12 08:39	9°♊28'03		superior conj	11213 Aug 20 01:53	7°♊58'18	-0°01'23
	11212 Sep 22 23:17	0°♊		minimum elong	11213 Aug 20 01:58	7°♊58'45	0°01'40
evening max el	11212 Oct 03 11:46	14°♊04'12	22°10'29	behind sun begin	11213 Aug 19 20:01	7°♊28'19	
desc. node	11212 Oct 05 21:51	16°♊13'49		behind sun end	11213 Aug 20 07:55	8°♊29'14	
retrograde	11212 Oct 16 06:16	20°♊25'30		asc. node	11213 Aug 20 05:17	8°♊15'40	
evening set	11212 Oct 19 12:16	20°♊02'03		evening rise	11213 Aug 27 17:20	23°♊51'48	
min. Earth dist.	11212 Oct 27 17:26	16°♊24'23	0.54745 AU		11213 Aug 30 17:20	0°♊	
inferior conj	11212 Oct 28 08:32	16°♊03'11	-5°33'36	evening max el	11213 Sep 15 09:26	24°♊34'57	20°40'44
minimum elong	11212 Oct 28 02:26	16°♊11'45	5°32'23	desc. node	11213 Sep 22 19:10	29°♊32'40	
morning rise	11212 Nov 05 18:04	12°♊16'12			11213 Sep 24 12:09	0°♊	
direct	11212 Nov 09 03:52	11°♊50'22		retrograde	11213 Sep 26 17:45	0°♊12'44	
morning max el	11212 Nov 21 02:52	17°♊30'09	21°34'49	evening set	11213 Sep 28 22:12	0°♊01'05	

	11213 Sep 29 00:39	30° RU		evening set	11214 Sep 09 08:46	10° U 28'15	
inferior conj	11213 Oct 08 00:41	26° U 05'33 -4°23'26		desc. node	11214 Sep 09 16:32	10° U 24'36	
minimum elong	11213 Oct 07 14:42	26° U 19'52 4°20'24		inferior conj	11214 Sep 18 02:28	6° U 22'39 -2°36'16	
min. Earth dist.	11213 Oct 09 01:27	25° U 29'57 0.54670 AU		minimum elong	11214 Sep 17 19:33	6° U 33'43 2°33'41	
morning rise	11213 Oct 16 07:00	22° U 07'14		min. Earth dist.	11214 Sep 20 12:17	4° U 50'31 0.55535 AU	
direct	11213 Oct 20 12:12	21° U 29'01		morning rise	11214 Sep 26 04:05	1° U 54'56	
morning max el	11213 Nov 02 17:17	27° U 52'18 23°19'22		direct	11214 Oct 01 05:13	0° U 57'49	
	11213 Nov 04 20:04	0° M		morning max el	11214 Oct 15 04:08	7° U 57'34 25°05'48	
asc. node	11213 Nov 16 06:07	16° M 03'48			11214 Oct 31 08:53	0° M	
	11213 Nov 23 13:45	0° J		asc. node	11214 Nov 03 03:00	4° M 59'02	
morning set	11213 Nov 26 01:56	5° J 15'09		morning set	11214 Nov 10 13:41	20° M 00'15	
					11214 Nov 15 03:37	0° J	
superior conj	11213 Dec 03 00:05	20° J 12'18 1°38'36		superior conj	11214 Nov 17 09:14	4° J 55'39 1°38'41	
minimum elong	11213 Dec 03 00:39	20° J 15'24 1°39'14		minimum elong	11214 Nov 17 08:41	4° J 52'36 1°39'15	
max. Earth dist.	11213 Dec 05 21:49	26° J 24'02 1.33325 AU		max. Earth dist.	11214 Nov 19 00:33	8° J 31'14 1.32199 AU	
	11213 Dec 07 15:12	0° Z		evening rise	11214 Nov 24 14:17	20° J 22'42	
evening rise	11213 Dec 10 17:55	6° Z 18'46			11214 Nov 29 10:34	0° Z	
desc. node	11213 Dec 19 17:11	22° Z 59'39		desc. node	11214 Dec 06 14:14	12° Z 50'50	
	11213 Dec 23 21:29	0° \approx			11214 Dec 17 23:50	0° \approx	
evening max el	11214 Jan 14 01:39	27° \approx 53'25 27°20'29		evening max el	11214 Dec 27 12:46	10° \approx 55'48 27°31'14	
	11214 Jan 16 09:49	0° H		retrograde	11215 Jan 10 08:14	18° \approx 15'16	
retrograde	11214 Jan 27 15:18	5° H 17'34		evening set	11215 Jan 17 07:56	15° \approx 51'50	
evening set	11214 Feb 03 10:29	2° H 45'29		min. Earth dist.	11215 Jan 21 01:39	12° \approx 47'56 0.62723 AU	
	11214 Feb 06 12:51	30° $\text{R}\approx$		inferior conj	11215 Jan 23 22:02	10° \approx 03'09 -2°01'31	
min. Earth dist.	11214 Feb 07 07:04	29° \approx 13'04 0.64607 AU		minimum elong	11215 Jan 24 02:05	9° \approx 53'23 1°59'20	
inferior conj	11214 Feb 09 17:11	26° \approx 36'25 -0°49'20		asc. node	11215 Jan 30 02:13	5° \approx 14'05	
minimum elong	11214 Feb 09 18:41	26° \approx 32'22 0°48'17		morning rise	11215 Jan 30 22:35	4° \approx 53'17	
asc. node	11214 Feb 12 04:58	24° \approx 02'20		direct	11215 Feb 02 05:29	4° \approx 29'01	
morning rise	11214 Feb 16 04:41	21° \approx 10'14		morning max el	11215 Feb 08 21:18	7° \approx 53'16 17°46'55	
direct	11214 Feb 18 18:09	20° \approx 36'18			11215 Feb 23 11:11	0° H	
morning max el	11214 Feb 25 03:43	23° \approx 56'16 17°53'30		morning set	11215 Feb 24 21:42	2° H 31'19	
	11214 Mar 02 02:33	0° H		desc. node	11215 Mar 04 14:34	15° H 53'28	
morning set	11214 Mar 14 10:37	19° H 48'38		superior conj	11215 Mar 08 17:20	22° H 49'54 -0°30'53	
desc. node	11214 Mar 17 17:52	25° H 18'45		minimum elong	11215 Mar 08 14:13	22° H 36'58 0°30'16	
	11214 Mar 20 13:55	0° Y			11215 Mar 13 01:52	0° Y	
superior conj	11214 Mar 28 03:42	12° Y 17'05 -1°12'53		max. Earth dist.	11215 Mar 15 07:55	3° Y 38'18 1.44114 AU	
minimum elong	11214 Mar 27 19:56	11° Y 45'58 1°11'59		evening rise	11215 Mar 23 15:01	16° Y 41'17	
max. Earth dist.	11214 Apr 01 14:11	19° Y 19'29 1.45249 AU			11215 Apr 01 09:50	0° Z	
	11214 Apr 08 10:21	0° Z		evening max el	11215 Apr 22 17:52	28° Z 39'01 21°06'17	
evening rise	11214 Apr 13 02:35	7° Z 12'17			11215 Apr 24 03:37	0° II	
greatest brilliancy	11214 Apr 27 23:53	29° Z 37'28 -0.6m		asc. node	11215 Apr 27 23:47	2° II 46'44	
	11214 Apr 28 06:05	0° II		retrograde	11215 May 01 07:51	3° II 40'18	
evening max el	11214 May 09 18:42	14° II 54'12 19°59'17		evening set	11215 May 05 14:17	1° II 58'22	
asc. node	11214 May 11 02:34	16° II 10'00			11215 May 07 14:41	30° RZ	
retrograde	11214 May 17 09:14	19° II 15'42		inferior conj	11215 May 10 20:48	25° Z 46'06 3°05'59	
evening set	11214 May 21 05:38	17° II 49'45		minimum elong	11215 May 10 19:31	25° Z 50'35 3°05'19	
inferior conj	11214 May 26 13:18	11° II 49'28 3°15'51		min. Earth dist.	11215 May 11 06:06	25° Z 13'50 0.68436 AU	
minimum elong	11214 May 26 12:57	11° II 50'42 3°15'13		morning rise	11215 May 16 00:32	19° Z 30'06	
min. Earth dist.	11214 May 27 12:17	10° II 31'52 0.67690 AU		direct	11215 May 21 06:33	17° Z 11'47	
morning rise	11214 May 31 19:55	5° II 29'24		desc. node	11215 May 31 15:33	23° Z 19'19	
direct	11214 Jun 06 14:44	2° II 55'18		morning max el	11215 May 31 18:29	23° Z 26'41 23°23'40	
desc. node	11214 Jun 13 18:35	5° II 53'12			11215 Jun 06 13:27	0° II	
morning max el	11214 Jun 18 08:37	9° II 58'12 24°52'59			11215 Jun 27 14:12	0° Z	
	11214 Jul 04 05:13	0° Z		morning set	11215 Jul 05 15:52	13° Z 06'53	
	11214 Jul 23 01:28	0° Q		max. Earth dist.	11215 Jul 09 17:18	20° Z 03'27 1.39314 AU	
morning set	11214 Jul 24 06:10	2° Q 06'14			11215 Jul 15 07:03	0° Q	
max. Earth dist.	11214 Jul 27 20:08	8° Q 33'55 1.37024 AU		superior conj	11215 Jul 17 08:33	3° Q 48'04 -1°07'32	
				minimum elong	11215 Jul 17 13:13	4° Q 09'43 1°07'24	
superior conj	11214 Aug 03 12:14	21° Q 13'44 -0°33'50		asc. node	11215 Jul 24 22:52	18° Q 16'07	
minimum elong	11214 Aug 03 14:26	21° Q 24'30 0°33'53		evening rise	11215 Jul 26 17:46	21° Q 43'38	
asc. node	11214 Aug 07 02:03	28° Q 18'58			11215 Jul 31 01:51	0° M	
	11214 Aug 07 22:11	0° M		evening max el	11215 Aug 11 20:45	17° M 51'09 18°41'05	
evening rise	11214 Aug 11 21:19	7° M 59'25		retrograde	11215 Aug 20 00:32	21° M 56'20	
	11214 Aug 24 02:20	0° U		evening set	11215 Aug 21 23:46	21° M 42'53	
evening max el	11214 Aug 28 20:57	5° U 50'17 19°30'13					
retrograde	11214 Sep 07 12:24	10° U 38'03					

desc. node	11215 Aug 27 13:53	19° \mathbb{M} 02'24		retrograde	11216 Aug 01 07:43	4° \mathbb{M} 06'05	
inferior conj	11215 Aug 29 23:46	17° \mathbb{M} 18'28	-0°45'04	evening set	11216 Aug 03 13:55	3° \mathbb{M} 44'54	
minimum elong	11215 Aug 29 21:56	17° \mathbb{M} 21'53	0°44'32		11216 Aug 09 14:53	30° \mathbb{R} \mathcal{Q}	
min. Earth dist.	11215 Sep 02 03:57	14° \mathbb{M} 57'21	0.57169 AU	inferior conj	11216 Aug 10 18:50	28° \mathcal{Q} 59'57	0°48'07
morning rise	11215 Sep 06 16:42	12° \mathbb{M} 13'09		minimum elong	11216 Aug 10 20:23	28° \mathcal{Q} 56'35	0°47'10
direct	11215 Sep 12 11:50	10° \mathbb{M} 50'30		desc. node	11216 Aug 13 11:11	26° \mathcal{Q} 39'37	
morning max el	11215 Sep 26 18:55	18° \mathbb{M} 18'33	26°36'18	min. Earth dist.	11216 Aug 14 02:52	26° \mathcal{Q} 06'41	0.59282 AU
	11215 Oct 06 13:59	0° $\underline{\mathcal{A}}$		morning rise	11216 Aug 17 23:32	23° \mathcal{Q} 20'55	
asc. node	11215 Oct 20 23:48	24° $\underline{\mathcal{A}}$ 20'48		direct	11216 Aug 24 08:13	21° \mathcal{Q} 29'06	
	11215 Oct 23 19:00	0° \mathbb{M}		morning max el	11216 Sep 07 16:57	29° \mathcal{Q} 18'03	27°35'59
morning set	11215 Oct 25 23:55	4° \mathbb{M} 38'00			11216 Sep 08 09:46	0° \mathbb{M}	
					11216 Sep 29 12:22	0° $\underline{\mathcal{A}}$	
superior conj	11215 Nov 01 20:33	19° \mathbb{M} 42'14	1°32'52	asc. node	11216 Oct 06 20:34	14° $\underline{\mathcal{A}}$ 01'45	
minimum elong	11215 Nov 01 19:04	19° \mathbb{M} 34'00	1°33'13	morning set	11216 Oct 09 06:57	19° $\underline{\mathcal{A}}$ 03'48	
max. Earth dist.	11215 Nov 02 08:21	20° \mathbb{M} 47'54	1.31554 AU		11216 Oct 14 08:11	0° \mathbb{M}	
	11215 Nov 06 12:38	0° \mathbb{M}		max. Earth dist.	11216 Oct 15 17:36	3° \mathbb{M} 05'23	1.31395 AU
evening rise	11215 Nov 08 17:37	4° \mathbb{M} 43'36					
	11215 Nov 22 02:48	0° \mathbb{Z}		superior conj	11216 Oct 16 08:12	4° \mathbb{M} 26'38	1°21'27
desc. node	11215 Nov 23 11:20	2° \mathbb{Z} 12'16		minimum elong	11216 Oct 16 06:08	4° \mathbb{M} 15'04	1°21'31
evening max el	11215 Dec 09 19:00	23° \mathbb{Z} 16'40	27°09'00	evening rise	11216 Oct 23 01:37	19° \mathbb{M} 15'20	
	11215 Dec 20 08:04	0° \approx			11216 Oct 28 06:37	0° \mathbb{M}	
retrograde	11215 Dec 23 16:45	0° \approx 28'38		desc. node	11216 Nov 09 08:30	20° \mathbb{M} 52'23	
	11215 Dec 26 23:38	30° \mathbb{R} \mathcal{Z}			11216 Nov 16 05:37	0° \mathbb{Z}	
evening set	11215 Dec 30 14:42	28° \mathbb{Z} 22'31		evening max el	11216 Nov 20 17:43	4° \mathbb{Z} 46'46	26°12'38
min. Earth dist.	11216 Jan 03 09:29	25° \mathbb{Z} 39'35	0.60642 AU	retrograde	11216 Dec 04 15:52	11° \mathbb{Z} 51'17	
inferior conj	11216 Jan 06 12:46	23° \mathbb{Z} 00'12	-3°18'35	evening set	11216 Dec 11 02:35	10° \mathbb{Z} 11'30	
minimum elong	11216 Jan 06 19:30	22° \mathbb{Z} 45'53	3°15'33	min. Earth dist.	11216 Dec 15 06:50	7° \mathbb{Z} 36'20	0.58524 AU
morning rise	11216 Jan 14 03:01	18° \mathbb{Z} 10'03		inferior conj	11216 Dec 18 09:52	5° \mathbb{Z} 18'12	-4°32'48
direct	11216 Jan 16 06:08	17° \mathbb{Z} 51'55		minimum elong	11216 Dec 18 18:04	5° \mathbb{Z} 03'04	4°29'57
asc. node	11216 Jan 16 23:25	17° \mathbb{Z} 54'04		morning rise	11216 Dec 26 12:14	0° \mathbb{Z} 50'19	
morning max el	11216 Jan 23 12:16	21° \mathbb{Z} 29'48	17°58'49	direct	11216 Dec 28 15:42	0° \mathbb{Z} 34'56	
	11216 Jan 29 23:38	0° \approx		asc. node	11217 Jan 02 20:33	2° \mathbb{Z} 11'23	
morning set	11216 Feb 08 02:41	16° \approx 03'36		morning max el	11217 Jan 05 20:58	4° \mathbb{Z} 36'10	18°30'41
	11216 Feb 15 18:11	0° \mathbb{H}		morning set	11217 Jan 21 20:12	0° \approx 09'33	
					11217 Jan 21 18:13	0° \approx	
superior conj	11216 Feb 18 07:40	4° \mathbb{H} 32'19	0°08'53				
minimum elong	11216 Feb 18 08:26	4° \mathbb{H} 35'40	0°09'05	superior conj	11217 Jan 30 19:28	17° \approx 14'35	0°42'11
behind sun begin	11216 Feb 18 01:46	4° \mathbb{H} 06'27		minimum elong	11217 Jan 30 22:08	17° \approx 26'57	0°42'16
behind sun end	11216 Feb 18 15:05	5° \mathbb{H} 04'50		desc. node	11217 Feb 05 08:00	27° \approx 13'41	
desc. node	11216 Feb 19 11:16	6° \mathbb{H} 32'55			11217 Feb 06 22:03	0° \mathbb{H}	
max. Earth dist.	11216 Feb 25 21:27	17° \mathbb{H} 27'16	1.42406 AU	max. Earth dist.	11217 Feb 07 05:52	0° \mathbb{H} 33'50	1.40320 AU
evening rise	11216 Mar 02 15:24	26° \mathbb{H} 46'38		evening rise	11217 Feb 11 11:46	7° \mathbb{H} 45'51	
	11216 Mar 04 16:24	0° \mathbb{Y}			11217 Feb 25 17:26	0° \mathbb{Y}	
	11216 Mar 25 04:30	0° \mathbb{Z}		evening max el	11217 Mar 18 02:33	26° \mathbb{Y} 12'19	23°43'16
evening max el	11216 Apr 04 11:53	12° \mathbb{Z} 24'34	22°22'43		11217 Mar 22 11:01	0° \mathbb{Z}	
asc. node	11216 Apr 13 21:03	18° \mathbb{Z} 08'32		retrograde	11217 Mar 28 23:31	2° \mathbb{Z} 36'53	
retrograde	11216 Apr 14 05:04	18° \mathbb{Z} 09'04		asc. node	11217 Mar 31 18:20	2° \mathbb{Z} 00'32	
evening set	11216 Apr 18 22:23	16° \mathbb{Z} 11'50		evening set	11217 Apr 03 04:24	0° \mathbb{Z} 25'54	
inferior conj	11216 Apr 24 05:55	9° \mathbb{Z} 49'57	2°45'45		11217 Apr 03 15:59	30° \mathbb{R} \mathbb{Y}	
minimum elong	11216 Apr 24 04:00	9° \mathbb{Z} 56'39	2°44'59	min. Earth dist.	11217 Apr 07 23:01	24° \mathbb{Y} 51'36	0.68544 AU
min. Earth dist.	11216 Apr 24 02:23	10° \mathbb{Z} 02'17	0.68716 AU	inferior conj	11217 Apr 08 14:46	23° \mathbb{Y} 57'42	2°15'49
morning rise	11216 Apr 29 09:29	3° \mathbb{Z} 39'23		minimum elong	11217 Apr 08 12:36	24° \mathbb{Y} 05'09	2°14'59
direct	11216 May 04 02:03	1° \mathbb{Z} 41'07		morning rise	11217 Apr 13 20:48	17° \mathbb{Y} 53'43	
morning max el	11216 May 13 07:12	7° \mathbb{Z} 03'59	21°55'34	direct	11217 Apr 18 00:13	16° \mathbb{Y} 17'01	
desc. node	11216 May 17 12:27	11° \mathbb{Z} 44'33		morning max el	11217 Apr 26 01:50	20° \mathbb{Y} 52'23	20°35'58
	11216 May 30 23:44	0° \mathbb{I}			11217 May 03 17:31	0° \mathbb{Z}	
morning set	11216 Jun 14 23:48	22° \mathbb{I} 57'47		desc. node	11217 May 04 09:16	0° \mathbb{Z} 52'49	
	11216 Jun 19 07:43	0° \mathbb{G}			11217 May 24 04:23	0° \mathbb{I}	
max. Earth dist.	11216 Jun 20 17:44	2° \mathbb{G} 20'56	1.41560 AU	morning set	11217 May 25 07:58	1° \mathbb{I} 46'41	
				max. Earth dist.	11217 Jun 03 00:28	15° \mathbb{I} 30'23	1.43496 AU
superior conj	11216 Jun 28 10:25	15° \mathbb{G} 31'09	-1°39'06				
minimum elong	11216 Jun 28 16:53	15° \mathbb{G} 59'39	1°39'01	superior conj	11217 Jun 09 13:35	26° \mathbb{I} 14'10	-2°03'13
	11216 Jul 06 11:03	0° \mathcal{Q}		minimum elong	11217 Jun 09 19:14	26° \mathbb{I} 37'47	2°03'32
evening rise	11216 Jul 09 03:03	4° \mathcal{Q} 55'18			11217 Jun 11 19:24	0° \mathbb{G}	
asc. node	11216 Jul 10 19:45	8° \mathcal{Q} 03'02		evening rise	11217 Jun 21 20:37	17° \mathbb{G} 22'52	
	11216 Jul 24 17:18	0° \mathbb{M}		asc. node	11217 Jun 27 16:40	27° \mathbb{G} 34'32	
evening max el	11216 Jul 25 05:02	0° \mathbb{M} 29'53	18°12'44		11217 Jun 29 02:54	0° \mathcal{Q}	

evening max el	11217 Jul 08 17:53	13°Ω36'25	18°03'59	retrograde	11218 Jun 28 16:29	0°Ω24'29	
retrograde	11217 Jul 15 06:28	16°Ω58'21			11218 Jun 30 19:37	30°℞☿	
evening set	11217 Jul 17 20:38	16°Ω26'01		evening set	11218 Jul 01 14:45	29°☿38'31	
inferior conj	11217 Jul 24 09:05	11°Ω21'42	1°56'25	inferior conj	11218 Jul 07 14:32	24°☿16'29	2°41'15
minimum elong	11217 Jul 24 11:47	11°Ω14'57	1°55'05	minimum elong	11218 Jul 07 16:56	24°☿09'45	2°40'06
min. Earth dist.	11217 Jul 27 10:30	8°Ω18'52	0.61564 AU	min. Earth dist.	11218 Jul 10 03:23	21°☿26'03	0.63737 AU
morning rise	11217 Jul 31 00:27	5°Ω19'20		morning rise	11218 Jul 13 17:36	18°☿01'03	
desc. node	11217 Jul 31 08:28	5°Ω05'51		desc. node	11218 Jul 18 05:41	15°☿40'59	
direct	11217 Aug 06 16:22	3°Ω01'05		direct	11218 Jul 20 09:56	15°☿24'59	
morning max el	11217 Aug 20 21:32	11°Ω02'01	27°57'32	morning max el	11218 Aug 03 06:27	23°☿26'58	27°41'20
	11217 Sep 04 18:35	0°♊			11218 Aug 09 02:34	0°Ω	
	11217 Sep 21 19:12	0°♊			11218 Aug 29 02:24	0°♊	
morning set	11217 Sep 23 08:46	3°♊11'14		morning set	11218 Sep 07 03:07	16°♊54'42	
asc. node	11217 Sep 23 17:18	3°♊55'12		asc. node	11218 Sep 10 14:03	23°♊56'49	
max. Earth dist.	11217 Sep 29 00:23	15°♊12'09	1.31736 AU	max. Earth dist.	11218 Sep 12 00:59	26°♊59'40	1.32597 AU
					11218 Sep 13 10:58	0°♊	
superior conj	11217 Sep 30 18:19	19°♊02'17	1°04'38	superior conj	11218 Sep 15 01:00	3°♊24'14	0°42'39
minimum elong	11217 Sep 30 16:05	18°♊49'57	1°04'25	minimum elong	11218 Sep 14 23:09	3°♊14'14	0°42'17
	11217 Oct 05 17:36	0°♋			11218 Sep 21 23:37	18°♊26'56	
evening rise	11217 Oct 07 12:13	3°♋51'18		evening rise	11218 Sep 27 14:22	0°♋	
	11217 Oct 21 06:53	0°♋			11218 Oct 14 03:00	24°♋56'07	
desc. node	11217 Oct 27 05:43	8°♋34'14		desc. node	11218 Oct 14 18:53	25°♋35'29	23°07'51
evening max el	11217 Nov 02 08:21	15°♋26'42	24°47'47	evening max el	11218 Oct 20 11:05	0°♋	
retrograde	11217 Nov 16 03:40	22°♋21'55		retrograde	11218 Oct 28 02:16	2°♋12'55	
evening set	11217 Nov 21 15:06	21°♋14'52		evening set	11218 Nov 01 04:20	1°♋36'38	
min. Earth dist.	11217 Nov 26 20:00	18°♋29'34	0.56609 AU		11218 Nov 05 04:38	30°♋♋	
inferior conj	11217 Nov 29 10:43	16°♋48'50	-5°29'44	min. Earth dist.	11218 Nov 08 04:15	28°♋22'57	0.55209 AU
minimum elong	11217 Nov 29 16:40	16°♋39'14	5°28'17	inferior conj	11218 Nov 09 16:03	27°♋31'13	-5°48'08
morning rise	11217 Dec 07 20:27	12°♋42'39		minimum elong	11218 Nov 09 14:45	27°♋33'06	5°47'34
direct	11217 Dec 10 06:24	12°♋26'27		morning rise	11218 Nov 18 02:50	23°♋40'55	
morning max el	11217 Dec 19 19:27	17°♋00'47	19°24'29	direct	11218 Nov 21 02:41	23°♋19'39	
asc. node	11217 Dec 20 17:37	17°♋56'29		morning max el	11218 Dec 02 04:30	28°♋34'29	20°41'11
	11217 Dec 29 05:37	0°♌			11218 Dec 03 14:32	0°♌	
morning set	11218 Jan 05 22:13	14°♌37'22		asc. node	11218 Dec 07 14:38	4°♌53'40	
				morning set	11218 Dec 21 05:43	29°♌18'18	
superior conj	11218 Jan 13 23:54	0°♌42'50	1°07'40		11218 Dec 21 13:47	0°♌	
minimum elong	11218 Jan 14 02:53	0°♌57'22	1°07'53	superior conj	11218 Dec 28 16:32	14°♌44'20	1°25'20
	11218 Jan 13 15:08	0°♌		minimum elong	11218 Dec 28 18:52	14°♌56'15	1°25'46
max. Earth dist.	11218 Jan 20 11:45	12°♌59'35	1.38100 AU	max. Earth dist.	11219 Jan 02 20:00	24°♌59'28	1.35989 AU
desc. node	11218 Jan 23 04:47	17°♌52'10			11219 Jan 05 11:00	0°♌	
evening rise	11218 Jan 24 05:26	19°♌40'46		evening rise	11219 Jan 06 17:51	2°♌23'40	
	11218 Jan 30 07:42	0°♍		desc. node	11219 Jan 10 01:37	8°♌24'14	
	11218 Feb 19 20:49	0°♍			11219 Jan 23 08:28	0°♍	
evening max el	11218 Feb 28 16:02	10°♍02'55	25°01'26	evening max el	11219 Feb 11 05:37	23°♍52'23	26°09'54
retrograde	11218 Mar 12 13:58	16°♍58'23		retrograde	11219 Feb 19 10:23	0°♍	
evening set	11218 Mar 18 06:47	14°♍36'01			11219 Feb 23 23:20	1°♍06'53	
asc. node	11218 Mar 18 15:37	14°♍16'40		evening set	11219 Mar 02 03:51	28°♍36'34	
min. Earth dist.	11218 Mar 22 17:49	9°♍36'50	0.67945 AU	asc. node	11219 Mar 05 12:56	25°♍10'43	
inferior conj	11218 Mar 23 21:31	8°♍05'53	1°36'22	min. Earth dist.	11219 Mar 06 08:30	24°♍12'12	0.66945 AU
minimum elong	11218 Mar 23 19:33	8°♍12'21	1°35'39	inferior conj	11219 Mar 08 00:08	22°♍09'51	0°47'18
morning rise	11218 Mar 29 08:35	2°♍09'51		minimum elong	11219 Mar 07 22:58	22°♍13'28	0°47'00
direct	11218 Apr 01 23:43	0°♍54'04		morning rise	11219 Mar 13 18:49	16°♍23'36	
morning max el	11218 Apr 09 04:09	4°♍52'22	19°29'43	direct	11219 Mar 16 22:52	15°♍26'35	
desc. node	11218 Apr 21 06:01	20°♍32'31		morning max el	11219 Mar 23 13:44	19°♍00'21	18°39'10
greatest brilliancy	11218 Apr 21 20:44	21°♍26'36	-0.7m		11219 Apr 01 04:04	0°♍	
	11218 Apr 27 13:48	0°♎		desc. node	11219 Apr 08 02:44	10°♍34'45	
morning set	11218 May 04 07:34	10°♎18'25		morning set	11219 Apr 13 21:41	19°♍38'15	
max. Earth dist.	11218 May 16 13:50	29°♎24'12	1.44899 AU		11219 Apr 20 12:27	0°♎	
	11218 May 16 22:54	0°♏		max. Earth dist.	11219 Apr 29 08:03	13°♎47'04	1.45623 AU
superior conj	11218 May 20 16:53	5°♏57'32	-2°13'13	superior conj	11219 Apr 30 02:34	14°♎59'27	-2°03'41
minimum elong	11218 May 20 17:10	5°♏58'43	2°13'49	minimum elong	11219 Apr 29 19:32	14°♎31'56	2°03'44
evening rise	11218 Jun 03 17:34	28°♏55'46			11219 May 09 15:34	0°♏	
	11218 Jun 04 08:56	0°♐		evening rise	11219 May 15 14:29	9°♏28'06	
asc. node	11218 Jun 14 13:40	16°♐45'11					
evening max el	11218 Jun 22 07:50	27°♐02'31	18°13'55				
	11218 Jun 26 13:03	0°♑					

greatest brilliancy	11219 May 23 05:19	21° Π 37'03	-0.9m	desc. node	11220 Mar 24 23:27	0° Υ 53'34	
	11219 May 28 15:16	0° \mathfrak{C}					
asc. node	11219 Jun 01 10:45	5° \mathfrak{C} 26'49		superior conj	11220 Apr 08 10:46	24° Υ 04'32	-1°35'07
evening max el	11219 Jun 05 19:51	10° \mathfrak{C} 39'26	18°41'47	minimum elong	11220 Apr 08 01:25	23° Υ 27'44	1°34'22
retrograde	11219 Jun 12 09:47	14° \mathfrak{C} 15'09		max. Earth dist.	11220 Apr 11 04:18	28° Υ 21'47	1.45602 AU
evening set	11219 Jun 15 16:17	13° \mathfrak{C} 14'03			11220 Apr 12 05:24	0° \mathfrak{C}	
inferior conj	11219 Jun 21 07:12	7° \mathfrak{C} 35'46	3°06'37	evening rise	11220 Apr 24 13:36	19° \mathfrak{C} 10'31	
minimum elong	11219 Jun 21 08:37	7° \mathfrak{C} 31'26	3°05'47		11220 May 01 14:07	0° Π	
min. Earth dist.	11219 Jun 23 05:13	5° \mathfrak{C} 14'19	0.65602 AU	greatest brilliancy	11220 May 07 07:53	8° Π 42'25	-0.7m
morning rise	11219 Jun 27 00:09	1° \mathfrak{C} 14'55		asc. node	11220 May 18 07:53	23° Π 29'53	
	11219 Jun 28 16:31	30° \mathfrak{R} Π		evening max el	11220 May 19 03:39	24° Π 21'24	19°26'30
direct	11219 Jul 03 11:02	28° Π 31'53		retrograde	11220 May 26 07:08	28° Π 23'18	
desc. node	11219 Jul 05 02:51	28° Π 41'27		evening set	11220 May 29 22:16	27° Π 06'24	
	11219 Jul 08 16:46	0° \mathfrak{C}		inferior conj	11220 Jun 04 07:43	21° Π 13'28	3°16'16
morning max el	11219 Jul 16 17:10	6° \mathfrak{C} 22'24	26°53'08	minimum elong	11220 Jun 04 07:59	21° Π 12'36	3°15'37
	11219 Aug 03 21:18	0° \mathfrak{Q}		min. Earth dist.	11220 Jun 05 14:50	19° Π 31'08	0.67057 AU
morning set	11219 Aug 21 11:03	0° \mathfrak{M} 06'52		morning rise	11220 Jun 09 17:17	14° Π 52'04	
	11219 Aug 21 09:37	0° \mathfrak{M}		direct	11220 Jun 15 18:36	12° Π 12'25	
max. Earth dist.	11219 Aug 25 16:29	8° \mathfrak{M} 24'22	1.33967 AU	desc. node	11220 Jun 20 23:58	13° Π 47'28	
asc. node	11219 Aug 28 10:49	14° \mathfrak{M} 02'24		morning max el	11220 Jun 28 03:46	19° Π 37'12	25°41'14
					11220 Jul 07 00:03	0° \mathfrak{C}	
superior conj	11219 Aug 30 02:02	17° \mathfrak{M} 26'22	0°15'55		11220 Jul 26 23:48	0° \mathfrak{Q}	
minimum elong	11219 Aug 30 01:13	17° \mathfrak{M} 22'04	0°15'33	morning set	11220 Aug 03 04:50	12° \mathfrak{Q} 37'50	
behind sun begin	11219 Aug 29 23:47	17° \mathfrak{M} 14'33		max. Earth dist.	11220 Aug 06 21:50	19° \mathfrak{Q} 32'03	1.35802 AU
behind sun end	11219 Aug 30 02:39	17° \mathfrak{M} 29'35			11220 Aug 12 06:29	0° \mathfrak{M}	
	11219 Sep 05 00:22	0° \mathfrak{L}					
evening rise	11219 Sep 06 09:54	2° \mathfrak{L} 57'01		superior conj	11220 Aug 12 18:40	1° \mathfrak{M} 01'08	-0°14'50
	11219 Sep 21 11:07	0° \mathfrak{M}		minimum elong	11220 Aug 12 19:35	1° \mathfrak{M} 05'45	0°15'02
evening max el	11219 Sep 26 10:00	5° \mathfrak{M} 48'15	21°30'16	behind sun begin	11220 Aug 12 17:20	0° \mathfrak{M} 54'25	
desc. node	11219 Oct 01 00:19	9° \mathfrak{M} 30'40		behind sun end	11220 Aug 12 21:50	1° \mathfrak{M} 17'05	
retrograde	11219 Oct 08 15:03	11° \mathfrak{M} 52'25		asc. node	11220 Aug 14 07:35	4° \mathfrak{M} 07'46	
evening set	11219 Oct 11 08:29	11° \mathfrak{M} 35'25		evening rise	11220 Aug 20 16:54	17° \mathfrak{M} 15'00	
inferior conj	11219 Oct 20 09:11	7° \mathfrak{M} 39'43	-5°10'13		11220 Aug 27 04:13	0° \mathfrak{L}	
minimum elong	11219 Oct 20 00:29	7° \mathfrak{M} 51'53	5°08'09	evening max el	11220 Sep 07 13:19	16° \mathfrak{L} 36'16	20°08'05
min. Earth dist.	11219 Oct 20 11:05	7° \mathfrak{M} 37'04	0.54598 AU	desc. node	11220 Sep 16 21:41	21° \mathfrak{L} 48'50	
morning rise	11219 Oct 28 17:27	3° \mathfrak{M} 50'53		retrograde	11220 Sep 18 04:24	21° \mathfrak{L} 53'16	
direct	11219 Nov 01 11:39	3° \mathfrak{M} 20'21		evening set	11220 Sep 20 03:28	21° \mathfrak{L} 43'16	
morning max el	11219 Nov 14 00:20	9° \mathfrak{M} 18'31	22°18'07	inferior conj	11220 Sep 29 03:46	17° \mathfrak{L} 44'30	-3°40'30
asc. node	11219 Nov 24 11:36	22° \mathfrak{M} 47'17		minimum elong	11220 Sep 28 18:28	17° \mathfrak{L} 58'21	3°37'19
	11219 Nov 28 15:08	0° \mathfrak{J}		min. Earth dist.	11220 Sep 30 19:49	16° \mathfrak{L} 44'46	0.54923 AU
morning set	11219 Dec 05 16:23	14° \mathfrak{J} 05'45		morning rise	11220 Oct 07 08:27	13° \mathfrak{L} 35'38	
				direct	11220 Oct 11 21:57	12° \mathfrak{L} 50'32	
superior conj	11219 Dec 12 17:48	29° \mathfrak{J} 09'09	1°35'42	morning max el	11220 Oct 25 12:19	19° \mathfrak{L} 30'04	24°05'38
minimum elong	11219 Dec 12 19:03	29° \mathfrak{J} 15'48	1°36'18		11220 Nov 03 07:30	0° \mathfrak{M}	
	11219 Dec 13 03:25	0° \mathfrak{Z}		asc. node	11220 Nov 10 08:30	11° \mathfrak{M} 23'11	
max. Earth dist.	11219 Dec 16 10:48	6° \mathfrak{Z} 53'23	1.34178 AU	morning set	11220 Nov 19 04:12	28° \mathfrak{M} 53'08	
evening rise	11219 Dec 20 21:26	15° \mathfrak{Z} 45'19			11220 Nov 19 16:42	0° \mathfrak{J}	
desc. node	11219 Dec 27 22:33	28° \mathfrak{Z} 45'29					
	11219 Dec 28 15:39	0° \mathfrak{A}		superior conj	11220 Nov 26 00:44	13° \mathfrak{J} 47'49	1°39'24
	11220 Jan 17 22:01	0° \mathfrak{H}		minimum elong	11220 Nov 26 00:49	13° \mathfrak{J} 48'15	1°40'01
evening max el	11220 Jan 24 19:13	7° \mathfrak{H} 32'29	27°01'18	max. Earth dist.	11220 Nov 28 09:20	18° \mathfrak{J} 53'38	1.32783 AU
retrograde	11220 Feb 07 02:53	14° \mathfrak{H} 55'21		evening rise	11220 Dec 03 12:31	29° \mathfrak{J} 35'47	
evening set	11220 Feb 13 17:40	12° \mathfrak{H} 21'52			11220 Dec 03 17:19	0° \mathfrak{Z}	
min. Earth dist.	11220 Feb 17 16:51	8° \mathfrak{H} 31'24	0.65566 AU	desc. node	11220 Dec 13 19:32	18° \mathfrak{Z} 49'30	
inferior conj	11220 Feb 19 20:25	6° \mathfrak{H} 04'40	-0°11'19		11220 Dec 20 17:31	0° \mathfrak{A}	
minimum elong	11220 Feb 19 20:44	6° \mathfrak{H} 03'46	0°10'52	evening max el	11221 Jan 06 07:32	20° \mathfrak{A} 51'06	27°28'43
transit middle	11220 Feb 19 20:44	6° \mathfrak{H} 03'46	0°10'52	retrograde	11221 Jan 20 00:00	28° \mathfrak{A} 14'12	
transit begin	11220 Feb 19 18:32	6° \mathfrak{H} 10'02		evening set	11221 Jan 26 21:54	25° \mathfrak{A} 44'24	
transit end	11220 Feb 19 22:55	5° \mathfrak{H} 57'31		min. Earth dist.	11221 Jan 30 16:49	22° \mathfrak{A} 25'06	0.63840 AU
asc. node	11220 Feb 20 10:13	5° \mathfrak{H} 25'28		inferior conj	11221 Feb 02 07:42	19° \mathfrak{A} 43'17	-1°19'04
morning rise	11220 Feb 26 01:09	0° \mathfrak{H} 30'32		minimum elong	11221 Feb 02 10:13	19° \mathfrak{A} 36'47	1°17'32
	11220 Feb 27 09:39	30° \mathfrak{R} \mathfrak{A}		asc. node	11221 Feb 06 07:30	16° \mathfrak{A} 00'06	
direct	11220 Feb 28 19:32	29° \mathfrak{A} 49'10		morning rise	11221 Feb 09 00:37	14° \mathfrak{A} 23'59	
	11220 Mar 01 05:37	0° \mathfrak{H}		direct	11221 Feb 11 11:01	13° \mathfrak{A} 54'38	
morning max el	11220 Mar 06 04:43	3° \mathfrak{H} 10'42	18°05'18	morning max el	11221 Feb 17 22:16	17° \mathfrak{A} 15'02	17°48'36
	11220 Mar 24 10:17	0° \mathfrak{Y}			11221 Feb 27 04:13	0° \mathfrak{H}	
morning set	11220 Mar 24 15:47	0° \mathfrak{Y} 22'22		morning set	11221 Mar 06 13:30	12° \mathfrak{H} 26'34	

desc. node	11221 Mar 11 20:08	21° Υ 23'32			11222 Jan 31 10:44	0° \approx	
	11221 Mar 17 00:23	0° Υ		morning max el	11222 Feb 01 15:10	1° \approx 04'30	17°49'39
				morning set	11222 Feb 17 08:52	25° \approx 32'04	
superior conj	11221 Mar 19 10:49	3° Υ 58'35	-0°55'13		11222 Feb 19 20:46	0° Υ	
minimum elong	11221 Mar 19 04:56	3° Υ 34'41	0°54'24	desc. node	11222 Feb 26 16:48	12° Υ 00'28	
max. Earth dist.	11221 Mar 24 23:14	12° Υ 49'33	1.44842 AU				
evening rise	11221 Apr 04 01:23	28° Υ 32'35		superior conj	11222 Feb 28 11:02	15° Υ 01'19	-0°13'26
	11221 Apr 05 00:14	0° \mathcal{B}		minimum elong	11222 Feb 28 09:47	14° Υ 56'02	0°13'00
	11221 Apr 25 11:44	0° Π		behind sun begin	11222 Feb 28 04:42	14° Υ 34'21	
evening max el	11221 May 02 05:56	8° Π 05'25	20°26'17	behind sun end	11222 Feb 28 14:53	15° Υ 17'41	
asc. node	11221 May 05 05:04	10° Π 42'36		max. Earth dist.	11222 Mar 07 14:41	26° Υ 54'52	1.43440 AU
retrograde	11221 May 10 05:59	12° Π 43'38			11222 Mar 09 12:33	0° Υ	
evening set	11221 May 14 06:28	11° Π 10'51		evening rise	11222 Mar 14 17:18	8° Υ 13'09	
inferior conj	11221 May 19 13:21	5° Π 04'59	3°13'01		11222 Mar 29 05:21	0° \mathcal{B}	
minimum elong	11221 May 19 12:33	5° Π 07'40	3°12'23	evening max el	11222 Apr 15 02:41	21° \mathcal{B} 50'25	21°38'00
min. Earth dist.	11221 May 20 06:22	4° Π 06'36	0.68060 AU	asc. node	11222 Apr 22 02:18	26° \mathcal{B} 49'35	
	11221 May 23 12:46	30° $\mathcal{R}\mathcal{B}$		retrograde	11222 Apr 24 04:13	27° \mathcal{B} 10'28	
morning rise	11221 May 24 18:23	28° \mathcal{B} 46'13		evening set	11222 Apr 28 15:03	25° \mathcal{B} 22'08	
direct	11221 May 30 07:46	26° \mathcal{B} 18'14		inferior conj	11222 May 03 21:46	19° \mathcal{B} 05'28	2°58'39
	11221 Jun 07 06:35	0° Π		minimum elong	11222 May 03 20:10	19° \mathcal{B} 11'02	2°57'56
desc. node	11221 Jun 07 21:00	0° Π 30'26		min. Earth dist.	11222 May 04 01:35	18° \mathcal{B} 52'08	0.68606 AU
morning max el	11221 Jun 10 13:36	3° Π 02'32	24°15'25	morning rise	11222 May 09 01:04	12° \mathcal{B} 51'22	
	11221 Jul 01 03:15	0° \mathcal{E}		direct	11222 May 14 01:23	10° \mathcal{B} 41'02	
morning set	11221 Jul 16 03:49	24° \mathcal{E} 16'12		morning max el	11222 May 24 00:09	16° \mathcal{B} 34'18	22°45'31
	11221 Jul 19 10:01	0° \mathcal{Q}		desc. node	11222 May 25 17:55	18° \mathcal{B} 24'04	
max. Earth dist.	11221 Jul 19 19:52	0° \mathcal{Q} 44'07	1.37981 AU		11222 Jun 04 01:23	0° Π	
					11222 Jun 24 04:01	0° \mathcal{E}	
superior conj	11221 Jul 26 23:35	14° \mathcal{Q} 00'43	-0°48'08	morning set	11222 Jun 27 02:51	4° \mathcal{E} 48'06	
minimum elong	11221 Jul 27 02:49	14° \mathcal{Q} 16'14	0°48'06	max. Earth dist.	11222 Jul 01 17:13	12° \mathcal{E} 30'14	1.40290 AU
asc. node	11221 Aug 01 04:23	24° \mathcal{Q} 09'22					
	11221 Aug 04 03:07	0° \mathcal{N}		superior conj	11222 Jul 09 12:36	26° \mathcal{E} 14'44	-1°21'28
evening rise	11221 Aug 04 18:07	1° \mathcal{N} 14'20		minimum elong	11222 Jul 09 18:12	26° \mathcal{E} 40'09	1°21'18
evening max el	11221 Aug 21 06:27	28° \mathcal{N} 12'05	19°06'43		11222 Jul 11 13:52	0° \mathcal{Q}	
	11221 Aug 23 07:11	0° \mathcal{L}		evening rise	11222 Jul 19 10:17	14° \mathcal{Q} 45'48	
retrograde	11221 Aug 30 05:57	2° \mathcal{L} 40'36		asc. node	11222 Jul 19 01:12	14° \mathcal{Q} 02'41	
evening set	11221 Sep 01 02:25	2° \mathcal{L} 29'57			11222 Jul 27 18:38	0° \mathcal{N}	
desc. node	11221 Sep 03 19:02	1° \mathcal{L} 39'38		evening max el	11222 Aug 04 10:25	10° \mathcal{N} 30'41	18°26'35
	11221 Sep 06 22:27	30° $\mathcal{R}\mathcal{N}$		retrograde	11222 Aug 12 02:02	14° \mathcal{N} 21'19	
inferior conj	11221 Sep 09 13:13	28° \mathcal{N} 17'08	-1°47'58	evening set	11222 Aug 14 04:02	14° \mathcal{N} 05'01	
minimum elong	11221 Sep 09 08:31	28° \mathcal{N} 25'09	1°46'11	inferior conj	11222 Aug 21 19:49	9° \mathcal{N} 32'12	-0°02'38
min. Earth dist.	11221 Sep 12 08:49	26° \mathcal{N} 22'26	0.56146 AU	minimum elong	11222 Aug 21 19:43	9° \mathcal{N} 32'25	0°02'53
morning rise	11221 Sep 17 11:35	23° \mathcal{N} 33'12		transit middle	11222 Aug 21 19:43	9° \mathcal{N} 32'25	0°02'53
direct	11221 Sep 22 20:34	22° \mathcal{N} 25'54		transit begin	11222 Aug 21 16:13	9° \mathcal{N} 39'23	
morning max el	11221 Oct 07 00:22	29° \mathcal{N} 39'35	25°47'15	transit end	11222 Aug 21 23:12	9° \mathcal{N} 25'26	
	11221 Oct 07 08:50	0° \mathcal{L}		desc. node	11222 Aug 21 16:23	9° \mathcal{N} 39'02	
	11221 Oct 27 22:54	0° \mathcal{M}		min. Earth dist.	11222 Aug 25 03:27	6° \mathcal{N} 54'38	0.58034 AU
asc. node	11221 Oct 28 05:21	0° \mathcal{M} 30'52		morning rise	11222 Aug 29 07:51	4° \mathcal{N} 11'38	
morning set	11221 Nov 03 15:29	13° \mathcal{M} 35'46		direct	11222 Sep 04 09:43	2° \mathcal{N} 36'16	
				morning max el	11222 Sep 18 17:54	10° \mathcal{N} 14'25	27°05'57
superior conj	11221 Nov 10 11:03	28° \mathcal{M} 33'32	1°36'55		11222 Oct 03 22:55	0° \mathcal{L}	
minimum elong	11221 Nov 10 10:04	28° \mathcal{M} 28'07	1°37'25	asc. node	11222 Oct 15 02:08	20° \mathcal{L} 01'21	
	11221 Nov 11 02:41	0° \mathcal{X}		morning set	11222 Oct 19 00:33	28° \mathcal{L} 08'43	
max. Earth dist.	11221 Nov 11 14:21	1° \mathcal{X} 04'24	1.31861 AU		11222 Oct 19 21:23	0° \mathcal{M}	
evening rise	11221 Nov 17 12:08	13° \mathcal{X} 47'41					
	11221 Nov 25 19:13	0° \mathcal{Z}		superior conj	11222 Oct 25 22:44	13° \mathcal{M} 19'54	1°28'41
desc. node	11221 Nov 30 16:35	8° \mathcal{Z} 29'06		minimum elong	11222 Oct 25 20:57	13° \mathcal{M} 09'59	1°28'56
	11221 Dec 16 04:21	0° \approx		max. Earth dist.	11222 Oct 25 23:04	13° \mathcal{M} 21'45	1.31424 AU
evening max el	11221 Dec 19 16:40	3° \approx 36'29	27°25'56	evening rise	11222 Nov 01 17:42	28° \mathcal{M} 14'00	
retrograde	11222 Jan 02 13:46	10° \approx 53'51			11222 Nov 02 13:44	0° \mathcal{X}	
evening set	11222 Jan 09 13:33	8° \approx 36'31		desc. node	11222 Nov 17 13:43	27° \mathcal{X} 34'37	
min. Earth dist.	11222 Jan 13 06:55	5° \approx 42'45	0.61849 AU		11222 Nov 19 03:51	0° \mathcal{Z}	
inferior conj	11222 Jan 16 06:55	2° \approx 58'06	-2°33'59	evening max el	11222 Dec 01 20:10	15° \mathcal{Z} 37'23	26°49'11
minimum elong	11222 Jan 16 12:08	2° \approx 46'07	2°31'22	retrograde	11222 Dec 15 18:40	22° \mathcal{Z} 46'07	
	11222 Jan 19 18:39	30° $\mathcal{R}\mathcal{Z}$		evening set	11222 Dec 22 12:53	20° \mathcal{Z} 50'33	
morning rise	11222 Jan 23 13:21	27° \mathcal{Z} 56'28		min. Earth dist.	11222 Dec 26 10:28	18° \mathcal{Z} 12'30	0.59726 AU
asc. node	11222 Jan 24 04:44	27° \mathcal{Z} 46'02		inferior conj	11222 Dec 29 14:37	15° \mathcal{Z} 40'17	-3°51'07
direct	11222 Jan 25 18:05	27° \mathcal{Z} 35'22		minimum elong	11222 Dec 29 22:14	15° \mathcal{Z} 24'59	3°48'00

morning rise	11223 Jan 06 10:20	10° Z 59'07		minimum elong	11223 Dec 11 11:11	27° Z 25'30	4°57'52
direct	11223 Jan 08 12:53	10° Z 42'37		morning rise	11223 Dec 19 09:32	23° Z 20'33	
asc. node	11223 Jan 11 01:55	11° Z 07'48		direct	11223 Dec 21 15:03	23° Z 05'10	
morning max el	11223 Jan 16 03:56	14° Z 29'42	18°09'47	asc. node	11223 Dec 28 23:01	26° Z 04'07	
	11223 Jan 26 18:21	0° \approx		morning max el	11223 Dec 30 08:40	27° Z 19'15	18°50'48
morning set	11223 Jan 31 19:48	9° \approx 20'56			11224 Jan 01 19:24	0° Z	
				morning set	11224 Jan 15 17:24	23° Z 37'49	
superior conj	11223 Feb 10 11:03	27° \approx 10'54	0°23'54		11224 Jan 18 23:18	0° \approx	
minimum elong	11223 Feb 10 12:51	27° \approx 19'01	0°24'02				
	11223 Feb 12 00:56	0° H		superior conj	11224 Jan 24 06:31	10° \approx 14'23	0°53'57
desc. node	11223 Feb 13 13:29	2° H 41'03		minimum elong	11224 Jan 24 09:29	10° \approx 28'23	0°54'05
max. Earth dist.	11223 Feb 18 01:58	10° H 26'58	1.41550 AU	desc. node	11224 Jan 31 10:13	23° \approx 21'10	
evening rise	11223 Feb 23 01:45	18° H 41'17		max. Earth dist.	11224 Jan 31 09:23	23° \approx 17'29	1.39379 AU
	11223 Mar 02 06:15	0° Y		evening rise	11224 Feb 04 07:20	0° H 04'46	
	11223 Mar 23 17:42	0° B			11224 Feb 04 06:13	0° H	
evening max el	11223 Mar 28 19:13	5° B 37'51	22°56'55		11224 Feb 23 15:19	0° Y	
retrograde	11223 Apr 08 00:19	11° B 39'43		evening max el	11224 Mar 10 09:14	19° Y 27'13	24°17'12
asc. node	11223 Apr 08 23:34	11° B 35'14		retrograde	11224 Mar 21 17:01	26° Y 05'34	
evening set	11223 Apr 12 22:27	9° B 36'36		asc. node	11224 Mar 25 20:53	24° Y 46'17	
inferior conj	11223 Apr 18 07:00	3° B 11'50	2°34'16	evening set	11224 Mar 27 03:06	23° Y 49'19	
minimum elong	11223 Apr 18 04:55	3° B 19'03	2°33'26	min. Earth dist.	11224 Mar 31 18:19	18° Y 30'13	0.68347 AU
min. Earth dist.	11223 Apr 17 22:18	3° B 42'01	0.68698 AU	inferior conj	11224 Apr 01 15:11	17° Y 19'56	2°00'15
	11223 Apr 20 16:23	30° R Y		minimum elong	11224 Apr 01 13:02	17° Y 27'11	1°59'27
morning rise	11223 Apr 23 11:17	27° Y 03'53		morning rise	11224 Apr 06 23:03	11° Y 19'21	
direct	11223 Apr 27 22:19	25° Y 14'28		direct	11224 Apr 10 21:12	9° Y 51'41	
	11223 May 06 08:30	0° B		morning max el	11224 Apr 18 12:45	14° Y 09'17	20°06'01
morning max el	11223 May 06 14:55	0° B 15'51	21°20'18	desc. node	11224 Apr 28 11:31	26° Y 31'57	
desc. node	11223 May 12 14:45	7° B 09'25			11224 Apr 30 22:00	0° B	
	11223 May 28 18:55	0° II		morning set	11224 May 16 01:39	22° B 43'53	
morning set	11223 Jun 06 23:44	14° II 09'46			11224 May 20 18:03	0° II	
max. Earth dist.	11223 Jun 13 20:16	25° II 10'57	1.42444 AU	max. Earth dist.	11224 May 26 06:31	8° II 42'57	1.44172 AU
	11223 Jun 16 18:08	0° E					
superior conj	11223 Jun 21 05:18	7° E 33'46	-1°50'36	superior conj	11224 May 31 22:08	17° II 50'30	-2°09'34
minimum elong	11223 Jun 21 11:54	8° E 02'07	1°50'39	minimum elong	11224 Jun 01 02:05	18° II 06'41	2°10'04
evening rise	11223 Jul 02 13:28	27° E 40'14			11224 Jun 08 05:34	0° E	
	11223 Jul 03 20:22	0° O		evening rise	11224 Jun 13 22:52	9° E 46'07	
asc. node	11223 Jul 05 22:05	3° O 43'49		asc. node	11224 Jun 21 19:04	23° E 07'32	
evening max el	11223 Jul 18 21:10	23° O 22'51	18°06'38		11224 Jun 26 03:54	0° O	
retrograde	11223 Jul 25 16:18	26° O 50'49		evening max el	11224 Jul 01 10:52	6° O 38'51	18°05'55
evening set	11223 Jul 28 02:01	26° O 25'06		retrograde	11224 Jul 07 20:35	9° O 59'15	
inferior conj	11223 Aug 03 23:29	21° O 31'32	1°20'11	evening set	11224 Jul 10 14:12	9° O 21'17	
minimum elong	11223 Aug 04 01:45	21° O 26'16	1°18'56	inferior conj	11224 Jul 16 20:45	4° O 08'53	2°18'04
min. Earth dist.	11223 Aug 07 05:39	18° O 31'38	0.60261 AU	minimum elong	11224 Jul 16 23:26	4° O 01'46	2°16'46
desc. node	11223 Aug 08 13:42	17° O 23'56		min. Earth dist.	11224 Jul 19 17:08	1° O 09'12	0.62513 AU
morning rise	11223 Aug 10 22:33	15° O 41'34			11224 Jul 20 21:27	30° R E	
direct	11223 Aug 17 11:19	13° O 37'52		morning rise	11224 Jul 23 06:40	27° E 59'47	
morning max el	11223 Aug 31 18:43	21° O 32'02	27°49'53	desc. node	11224 Jul 25 10:57	26° E 39'24	
	11223 Sep 08 04:08	0° P		direct	11224 Jul 29 23:24	25° E 33'06	
	11223 Sep 26 23:40	0° A			11224 Aug 09 02:16	0° O	
asc. node	11223 Oct 01 22:51	9° A 48'07		morning max el	11224 Aug 13 01:39	3° O 35'26	27°55'07
morning set	11223 Oct 03 05:36	12° A 27'10			11224 Sep 01 17:44	0° P	
max. Earth dist.	11223 Oct 09 07:49	25° A 36'21	1.31483 AU	morning set	11224 Sep 16 04:37	26° P 25'56	
				asc. node	11224 Sep 17 19:35	29° P 45'57	
superior conj	11223 Oct 10 09:57	28° A 01'11	1°14'57		11224 Sep 17 22:18	0° A	
minimum elong	11223 Oct 10 07:45	27° A 48'57	1°14'54	max. Earth dist.	11224 Sep 21 12:45	7° A 37'57	1.32043 AU
	11223 Oct 11 07:20	0° M					
evening rise	11223 Oct 17 03:04	12° M 48'28		superior conj	11224 Sep 23 18:54	12° A 32'11	0°55'56
	11223 Oct 25 16:38	0° Z		minimum elong	11224 Sep 23 16:45	12° A 20'25	0°55'38
desc. node	11223 Nov 04 10:56	15° Z 52'17		evening rise	11224 Sep 30 14:18	27° A 25'40	
evening max el	11223 Nov 13 15:33	26° Z 45'53	25°39'29		11224 Oct 01 19:13	0° M	
	11223 Nov 17 12:14	0° Z			11224 Oct 18 21:35	0° Z	
retrograde	11223 Nov 27 12:46	3° Z 45'59		desc. node	11224 Oct 21 08:12	3° Z 03'43	
evening set	11223 Dec 03 15:14	2° Z 19'52		evening max el	11224 Oct 25 03:30	7° Z 08'56	24°06'01
	11223 Dec 07 17:36	30° R Z		retrograde	11224 Nov 07 18:54	13° Z 58'20	
min. Earth dist.	11223 Dec 08 03:56	29° Z 42'50	0.57667 AU	evening set	11224 Nov 12 17:19	13° Z 04'55	
inferior conj	11223 Dec 11 03:19	27° Z 39'09	-5°00'15	min. Earth dist.	11224 Nov 18 14:13	10° Z 09'54	0.55936 AU
				inferior conj	11224 Nov 20 19:28	8° Z 48'44	-5°43'35

minimum elong	11224 Nov 20 22:52	8° ♄ 43'32	5°42'44	minimum elong	11225 Oct 31 13:20	19° ♄ 20'43	5°38'24
morning rise	11224 Nov 29 06:27	4° ♄ 50'55		morning rise	11225 Nov 09 04:11	15° ♄ 26'23	
direct	11224 Dec 01 21:36	4° ♄ 33'04		direct	11225 Nov 12 11:14	15° ♄ 01'54	
morning max el	11224 Dec 12 01:46	9° ♄ 23'19	19°54'24	morning max el	11225 Nov 24 05:02	20° ♄ 35'22	21°20'21
asc. node	11224 Dec 14 20:04	12° ♄ 22'02		asc. node	11225 Dec 01 17:03	29° ♄ 44'45	
	11224 Dec 25 19:00	0° ♄			11225 Dec 01 21:08	0° ♄	
morning set	11224 Dec 29 22:06	8° ♄ 12'23		morning set	11225 Dec 14 07:11	22° ♄ 56'28	
					11225 Dec 17 15:46	0° ♄	
superior conj	11225 Jan 06 16:42	23° ♄ 58'34	1°16'05	superior conj	11225 Dec 21 13:25	8° ♄ 11'10	1°30'35
minimum elong	11225 Jan 06 19:29	24° ♄ 12'26	1°16'23	minimum elong	11225 Dec 21 15:20	8° ♄ 21'04	1°31'05
	11225 Jan 09 18:21	0° ♄			11225 Dec 26 02:02	17° ♄ 23'25	1.35170 AU
max. Earth dist.	11225 Jan 12 15:46	5° ♄ 30'19	1.37176 AU	max. Earth dist.	11225 Dec 30 04:43	25° ♄ 21'19	
evening rise	11225 Jan 16 09:24	12° ♄ 20'54		evening rise	11226 Jan 01 16:47	0° ♄	
desc. node	11225 Jan 17 07:02	13° ♄ 57'20		desc. node	11226 Jan 04 03:56	4° ♄ 25'20	
	11225 Jan 26 20:46	0° ♄			11226 Jan 20 08:39	0° ♄	
	11225 Feb 17 18:58	0° ♄			11226 Jan 20 08:39	0° ♄	
evening max el	11225 Feb 20 22:30	3° ♄ 17'10	25°32'03	evening max el	11226 Feb 03 12:00	17° ♄ 03'11	26°34'16
retrograde	11225 Mar 05 05:26	10° ♄ 22'23		retrograde	11226 Feb 16 12:41	24° ♄ 23'23	
evening set	11225 Mar 11 03:27	7° ♄ 55'47		evening set	11226 Feb 22 21:44	21° ♄ 50'53	
asc. node	11225 Mar 12 18:13	6° ♄ 23'53		min. Earth dist.	11226 Feb 26 23:52	17° ♄ 41'05	0.66397 AU
min. Earth dist.	11225 Mar 15 11:32	3° ♄ 11'45	0.67571 AU	asc. node	11226 Feb 27 15:31	16° ♄ 54'38	
inferior conj	11225 Mar 16 20:24	1° ♄ 26'21	1°16'42	inferior conj	11226 Feb 28 20:39	15° ♄ 27'07	0°23'35
minimum elong	11225 Mar 16 18:42	1° ♄ 31'50	1°16'08	minimum elong	11226 Feb 28 20:01	15° ♄ 29'00	0°23'34
	11225 Mar 17 23:40	30° ♄		morning rise	11226 Mar 06 19:19	9° ♄ 45'46	
morning rise	11225 Mar 22 10:26	25° ♄ 34'31		direct	11226 Mar 09 18:57	8° ♄ 56'00	
direct	11225 Mar 25 20:39	24° ♄ 27'12		morning max el	11226 Mar 16 06:39	12° ♄ 23'30	18°22'40
morning max el	11225 Apr 01 18:25	28° ♄ 13'28	19°06'14		11226 Mar 29 01:52	0° ♄	
	11225 Apr 03 10:51	0° ♄		desc. node	11226 Apr 02 04:57	6° ♄ 31'35	
greatest brilliancy	11225 Apr 14 21:49	15° ♄ 42'26	-0.7m	morning set	11226 Apr 05 06:03	11° ♄ 22'12	
desc. node	11225 Apr 15 08:15	16° ♄ 21'43			11226 Apr 17 00:59	0° ♄	
	11225 Apr 24 05:52	0° ♄					
morning set	11225 Apr 25 04:45	1° ♄ 28'27		superior conj	11226 Apr 20 23:15	6° ♄ 09'03	-1°53'35
max. Earth dist.	11225 May 08 22:15	22° ♄ 50'52	1.45291 AU	minimum elong	11226 Apr 20 14:22	5° ♄ 34'17	1°53'14
				max. Earth dist.	11226 Apr 21 17:07	7° ♄ 18'50	1.45699 AU
superior conj	11225 May 11 16:26	27° ♄ 11'27	-2°11'43		11226 May 06 05:01	0° ♄	
minimum elong	11225 May 11 13:27	26° ♄ 59'39	2°12'11	evening rise	11226 May 06 20:42	1° ♄ 01'35	
	11225 May 13 11:02	0° ♄		greatest brilliancy	11226 May 16 21:48	16° ♄ 45'01	-0.8m
evening rise	11225 May 26 09:47	20° ♄ 53'07			11226 May 26 02:29	0° ♄	
	11225 May 31 23:22	0° ♄		asc. node	11226 May 26 13:14	0° ♄ 33'39	
asc. node	11225 Jun 08 16:06	12° ♄ 06'48		evening max el	11226 May 29 10:42	3° ♄ 49'34	18°58'53
evening max el	11225 Jun 15 00:15	20° ♄ 09'47	18°23'37	retrograde	11226 Jun 05 05:36	7° ♄ 35'10	
retrograde	11225 Jun 21 10:15	23° ♄ 36'26		evening set	11226 Jun 08 15:37	6° ♄ 27'35	
evening set	11225 Jun 24 11:53	22° ♄ 44'18		inferior conj	11226 Jun 14 03:51	0° ♄ 43'07	3°12'24
inferior conj	11225 Jun 30 07:27	17° ♄ 15'05	2°54'08	minimum elong	11226 Jun 14 04:46	0° ♄ 40'10	3°11'41
minimum elong	11225 Jun 30 09:28	17° ♄ 09'09	2°53'08		11226 Jun 14 17:22	30° ♄	
min. Earth dist.	11225 Jul 02 14:06	14° ♄ 35'11	0.64565 AU	min. Earth dist.	11226 Jun 15 19:34	28° ♄ 37'02	0.66270 AU
morning rise	11225 Jul 06 05:51	10° ♄ 56'16		morning rise	11226 Jun 19 17:17	24° ♄ 21'25	
desc. node	11225 Jul 12 08:10	8° ♄ 16'47		direct	11226 Jun 26 00:34	21° ♄ 38'18	
direct	11225 Jul 12 20:20	8° ♄ 15'54		desc. node	11226 Jun 29 05:18	22° ♄ 14'00	
morning max el	11225 Jul 26 11:53	16° ♄ 15'34	27°24'24	morning max el	11226 Jul 08 22:40	29° ♄ 20'26	26°24'52
	11225 Aug 06 20:02	0° ♄			11226 Jul 09 14:04	0° ♄	
	11225 Aug 25 12:44	0° ♄			11226 Jul 31 16:39	0° ♄	
morning set	11225 Aug 30 18:58	9° ♄ 57'26		morning set	11226 Aug 13 21:24	22° ♄ 53'28	
max. Earth dist.	11225 Sep 04 09:51	19° ♄ 16'09	1.33115 AU		11226 Aug 17 14:26	0° ♄	
asc. node	11225 Sep 04 16:20	19° ♄ 49'43		max. Earth dist.	11226 Aug 17 20:35	0° ♄ 30'10	1.34692 AU
superior conj	11225 Sep 07 23:28	26° ♄ 46'23	0°31'53	superior conj	11226 Aug 22 21:17	10° ♄ 37'48	0°03'20
minimum elong	11225 Sep 07 21:58	26° ♄ 38'23	0°31'29	minimum elong	11226 Aug 22 21:07	10° ♄ 36'56	0°03'01
	11225 Sep 09 11:38	0° ♄		behind sun begin	11226 Aug 22 15:19	10° ♄ 07'01	
evening rise	11225 Sep 15 01:27	11° ♄ 59'26		behind sun end	11226 Aug 23 02:56	11° ♄ 06'55	
	11225 Sep 24 04:16	0° ♄		asc. node	11226 Aug 22 13:06	9° ♄ 55'40	
evening max el	11225 Oct 06 14:38	17° ♄ 14'11	22°25'05	evening rise	11226 Aug 30 10:36	26° ♄ 24'48	
desc. node	11225 Oct 08 05:32	18° ♄ 43'42			11226 Sep 01 04:15	0° ♄	
retrograde	11225 Oct 19 13:08	23° ♄ 40'20		evening max el	11226 Sep 18 10:27	27° ♄ 39'30	20°53'00
evening set	11225 Oct 23 00:01	23° ♄ 14'03			11226 Sep 21 02:22	0° ♄	
min. Earth dist.	11225 Oct 30 21:35	19° ♄ 42'58	0.54838 AU	desc. node	11226 Sep 25 02:52	2° ♄ 23'16	
inferior conj	11225 Oct 31 18:16	19° ♄ 13'45	-5°39'21	retrograde	11226 Sep 30 00:23	3° ♄ 24'13	

evening set	11226 Oct 02 07:39	3°♍11'32		retrograde	11227 Sep 10 17:15	13°♌42'52	
	11226 Oct 10 03:24	30°♌♌		desc. node	11227 Sep 12 00:12	13°♌38'11	
inferior conj	11226 Oct 11 10:11	29°♌16'32	-4°37'09	evening set	11227 Sep 12 13:59	13°♌33'10	
minimum elong	11226 Oct 11 00:17	29°♌30'36	4°34'19	inferior conj	11227 Sep 21 09:44	9°♌29'38	-2°53'33
min. Earth dist.	11226 Oct 12 05:15	28°♌49'24	0.54623 AU	minimum elong	11227 Sep 21 02:05	9°♌41'37	2°50'42
morning rise	11226 Oct 19 17:01	25°♌21'16		min. Earth dist.	11227 Sep 23 15:20	8°♌05'51	0.55348 AU
direct	11226 Oct 23 19:26	24°♌45'08		morning rise	11227 Sep 29 12:15	5°♌07'20	
	11226 Nov 04 16:58	0°♍		direct	11227 Oct 04 10:28	4°♌13'36	
morning max el	11226 Nov 05 20:33	1°♍02'09	23°03'18	morning max el	11227 Oct 18 07:24	11°♌08'08	24°50'36
asc. node	11226 Nov 18 13:58	17°♍57'31			11227 Nov 01 14:12	0°♍	
	11226 Nov 25 00:58	0°♎		asc. node	11227 Nov 05 10:49	6°♍48'16	
morning set	11226 Nov 28 18:31	7°♎43'56		morning set	11227 Nov 13 06:20	22°♍30'08	
					11227 Nov 16 17:08	0°♎	
superior conj	11226 Dec 05 17:23	22°♎42'25	1°38'03	superior conj	11227 Nov 20 02:01	7°♎24'57	1°39'04
minimum elong	11226 Dec 05 18:08	22°♎46'28	1°38'40	minimum elong	11227 Nov 20 01:37	7°♎22'48	1°39'39
max. Earth dist.	11226 Dec 08 19:56	29°♎17'46	1.33531 AU	max. Earth dist.	11227 Nov 21 21:47	11°♎24'11	1.32337 AU
	11226 Dec 09 04:01	0°♏		evening rise	11227 Nov 27 08:41	22°♎57'10	
evening rise	11226 Dec 13 13:35	8°♏56'11			11227 Nov 30 21:22	0°♏	
desc. node	11226 Dec 22 00:54	24°♏39'53		desc. node	11227 Dec 08 21:55	14°♏34'54	
	11226 Dec 25 04:21	0°♐			11227 Dec 18 22:17	0°♐	
	11227 Jan 16 10:35	0°♑		evening max el	11227 Dec 30 12:55	13°♐43'06	27°31'35
evening max el	11227 Jan 17 01:24	0°♑35'59	27°16'26	retrograde	11228 Jan 13 07:34	21°♐03'19	
retrograde	11227 Jan 30 13:43	7°♑59'55		evening set	11228 Jan 20 07:03	18°♐37'59	
evening set	11227 Feb 06 07:47	5°♑27'22		min. Earth dist.	11228 Jan 24 01:01	15°♐30'19	0.63023 AU
min. Earth dist.	11227 Feb 10 05:02	1°♑50'19	0.64863 AU	inferior conj	11228 Jan 26 20:02	12°♐45'58	-1°50'06
	11227 Feb 11 21:29	30°♑♑		minimum elong	11228 Jan 26 23:40	12°♐37'03	1°48'06
inferior conj	11227 Feb 12 13:28	29°♑15'59	-0°39'01	asc. node	11228 Feb 01 10:01	8°♑10'44	
minimum elong	11227 Feb 12 14:37	29°♑12'48	0°38'08	morning rise	11228 Feb 02 18:34	7°♑33'31	
asc. node	11227 Feb 14 12:48	27°♑10'16		direct	11228 Feb 05 02:21	7°♑08'01	
morning rise	11227 Feb 18 23:07	23°♑47'32		morning max el	11228 Feb 11 16:39	10°♑30'48	17°46'47
direct	11227 Feb 21 13:50	23°♑11'44			11228 Feb 24 19:40	0°♑	
morning max el	11227 Feb 27 23:01	26°♑31'50	17°56'00	morning set	11228 Feb 27 20:16	5°♑15'24	
	11227 Mar 03 00:04	0°♒		desc. node	11228 Mar 05 22:20	17°♑28'56	
morning set	11227 Mar 17 12:29	22°♑42'13		superior conj	11228 Mar 10 22:22	25°♑52'20	-0°37'15
desc. node	11227 Mar 20 01:38	26°♑55'25		minimum elong	11228 Mar 10 18:32	25°♑36'30	0°36'35
	11227 Mar 21 22:26	0°♓			11228 Mar 13 10:39	0°♓	
superior conj	11227 Mar 31 12:27	15°♓30'11	-1°18'59	max. Earth dist.	11228 Mar 17 07:14	6°♓13'58	1.44326 AU
minimum elong	11227 Mar 31 04:06	14°♓57'00	1°18'06	evening rise	11228 Mar 26 00:57	19°♓56'07	
max. Earth dist.	11227 Apr 04 12:58	21°♓51'51	1.45366 AU		11228 Apr 01 15:50	0°♔	
	11227 Apr 09 17:56	0°♕			11228 Apr 23 10:54	0°♕	
evening rise	11227 Apr 16 13:12	10°♕30'17		evening max el	11228 Apr 24 16:14	1°♕17'01	20°55'31
	11227 Apr 29 09:51	0°♖		asc. node	11228 Apr 29 07:36	5°♕03'17	
greatest brilliancy	11227 May 01 00:04	2°♖20'39	-0.6m	retrograde	11228 May 03 02:25	6°♕12'05	
evening max el	11227 May 12 16:20	17°♖32'43	19°50'18	evening set	11228 May 07 07:18	4°♕32'25	
asc. node	11227 May 13 10:24	18°♖16'49			11228 May 11 09:09	30°♖♖	
retrograde	11227 May 20 03:42	21°♖48'38		inferior conj	11228 May 12 13:50	28°♖21'41	3°08'11
evening set	11227 May 23 22:45	20°♖24'59		minimum elong	11228 May 12 12:40	28°♖25'42	3°07'30
inferior conj	11227 May 29 06:48	14°♖26'35	3°16'18	min. Earth dist.	11228 May 13 01:05	27°♖42'45	0.68358 AU
minimum elong	11227 May 29 06:36	14°♖27'16	3°15'41	morning rise	11228 May 17 17:50	22°♖04'57	
min. Earth dist.	11227 May 30 07:52	13°♖02'29	0.67546 AU	direct	11228 May 23 01:46	19°♖44'05	
morning rise	11227 Jun 03 14:06	8°♖06'11		desc. node	11228 Jun 01 23:20	25°♖19'28	
direct	11227 Jun 09 10:43	5°♖30'24		morning max el	11228 Jun 02 18:24	26°♖06'39	23°37'05
desc. node	11227 Jun 16 02:21	8°♖04'09			11228 Jun 06 08:03	0°♖	
morning max el	11227 Jun 21 08:37	12°♖39'06	25°05'46		11228 Jun 27 21:03	0°♗	
	11227 Jul 05 07:58	0°♘		morning set	11228 Jul 07 21:00	16°♗13'18	
	11227 Jul 24 10:49	0°♙		max. Earth dist.	11228 Jul 11 19:13	22°♗59'13	1.38969 AU
morning set	11227 Jul 27 07:44	5°♙02'50			11228 Jul 15 17:29	0°♙	
max. Earth dist.	11227 Jul 30 21:56	11°♙34'49	1.36699 AU	superior conj	11228 Jul 19 08:02	6°♙39'18	-1°02'30
superior conj	11227 Aug 06 09:23	23°♙58'30	-0°28'46	minimum elong	11228 Jul 19 12:19	6°♙59'25	1°02'21
minimum elong	11227 Aug 06 11:13	24°♙07'36	0°28'51	asc. node	11228 Jul 26 06:42	19°♙58'04	
asc. node	11227 Aug 09 09:54	29°♙59'48		evening rise	11228 Jul 28 13:12	24°♙23'27	
	11227 Aug 09 09:56	0°♚			11228 Jul 31 10:55	0°♚	
evening rise	11227 Aug 14 15:26	10°♚35'16		evening max el	11228 Aug 13 17:58	20°♚41'40	18°47'03
	11227 Aug 25 01:54	0°♛		retrograde	11228 Aug 22 02:37	24°♚52'40	
evening max el	11227 Aug 31 19:52	8°♛47'41	19°39'22				

evening set	11228 Aug 24 00:55	24° \mathbb{M} 40'07		evening max el	11229 Jul 28 01:16	3° \mathbb{M} 15'27	18°15'39
desc. node	11228 Aug 28 21:34	22° \mathbb{M} 32'56		retrograde	11229 Aug 04 07:01	6° \mathbb{M} 54'59	
inferior conj	11228 Sep 01 03:47	20° \mathbb{M} 18'42	-1°01'05	evening set	11229 Aug 06 12:01	6° \mathbb{M} 35'14	
minimum elong	11228 Sep 01 01:14	20° \mathbb{M} 23'19	1°00'14	inferior conj	11229 Aug 13 19:43	1° \mathbb{M} 53'28	0°35'35
min. Earth dist.	11228 Sep 04 06:11	18° \mathbb{M} 04'00	0.56881 AU	minimum elong	11229 Aug 13 20:53	1° \mathbb{M} 50'56	0°34'45
morning rise	11228 Sep 08 22:14	15° \mathbb{M} 18'52		desc. node	11229 Aug 15 18:54	0° \mathbb{M} 12'22	
direct	11228 Sep 14 14:46	14° \mathbb{M} 00'26			11229 Aug 16 00:44	30° \mathbb{R} 0	
morning max el	11228 Sep 28 21:22	21° \mathbb{M} 25'04	26°24'36	min. Earth dist.	11229 Aug 17 04:03	29° \mathbb{O} 03'26	0.58952 AU
	11228 Oct 06 09:29	0° \mathbb{L}		morning rise	11229 Aug 21 02:20	26° \mathbb{O} 18'47	
asc. node	11228 Oct 22 07:38	26° \mathbb{L} 06'24		direct	11229 Aug 27 09:26	24° \mathbb{O} 31'06	
	11228 Oct 24 06:31	0° \mathbb{M}			11229 Sep 08 06:08	0° \mathbb{M}	
morning set	11228 Oct 27 16:53	7° \mathbb{M} 09'12		morning max el	11229 Sep 10 18:17	2° \mathbb{M} 17'49	27°29'23
					11229 Sep 30 19:49	0° \mathbb{L}	
superior conj	11228 Nov 03 13:06	22° \mathbb{M} 11'18	1°34'06	asc. node	11229 Oct 09 04:25	15° \mathbb{L} 44'26	
minimum elong	11228 Nov 03 11:45	22° \mathbb{M} 03'46	1°34'31	morning set	11229 Oct 12 00:29	21° \mathbb{L} 36'31	
max. Earth dist.	11228 Nov 04 04:58	23° \mathbb{M} 39'25	1.31615 AU		11229 Oct 15 21:47	0° \mathbb{M}	
	11228 Nov 07 01:58	0° \mathbb{X}		max. Earth dist.	11229 Oct 18 14:06	5° \mathbb{M} 56'12	1.31383 AU
evening rise	11228 Nov 10 11:05	7° \mathbb{X} 15'37					
	11228 Nov 22 08:48	0° \mathbb{Z}		superior conj	11229 Oct 19 00:49	6° \mathbb{M} 55'54	1°23'31
desc. node	11228 Nov 24 19:00	4° \mathbb{Z} 01'24		minimum elong	11229 Oct 18 22:48	6° \mathbb{M} 44'42	1°23'39
evening max el	11228 Dec 11 19:52	26° \mathbb{Z} 10'12	27°14'27	evening rise	11229 Oct 25 18:30	21° \mathbb{M} 45'31	
	11228 Dec 16 11:37	0° \mathbb{A}			11229 Oct 29 17:33	0° \mathbb{X}	
retrograde	11228 Dec 25 17:28	3° \mathbb{A} 23'43		desc. node	11229 Nov 11 16:10	22° \mathbb{X} 48'14	
evening set	11229 Jan 01 16:14	1° \mathbb{A} 14'16			11229 Nov 16 20:22	0° \mathbb{Z}	
	11229 Jan 03 12:11	30° \mathbb{R} 0		evening max el	11229 Nov 23 19:49	7° \mathbb{Z} 47'47	26°23'07
min. Earth dist.	11229 Jan 05 10:21	28° \mathbb{Z} 28'58	0.60961 AU	retrograde	11229 Dec 07 18:17	14° \mathbb{Z} 53'40	
inferior conj	11229 Jan 08 13:03	25° \mathbb{Z} 47'38	-3°06'49	evening set	11229 Dec 14 07:14	13° \mathbb{Z} 09'32	
minimum elong	11229 Jan 08 19:25	25° \mathbb{Z} 33'50	3°03'53	min. Earth dist.	11229 Dec 18 09:17	10° \mathbb{Z} 34'09	0.58828 AU
morning rise	11229 Jan 16 01:20	20° \mathbb{Z} 54'32		inferior conj	11229 Dec 21 12:59	8° \mathbb{Z} 11'45	-4°22'19
direct	11229 Jan 18 04:45	20° \mathbb{Z} 35'44		minimum elong	11229 Dec 21 21:08	7° \mathbb{Z} 56'22	4°19'21
asc. node	11229 Jan 18 07:12	20° \mathbb{Z} 35'47		morning rise	11229 Dec 29 13:46	3° \mathbb{Z} 40'27	
morning max el	11229 Jan 25 08:14	24° \mathbb{Z} 10'55	17°55'49	direct	11229 Dec 31 16:43	3° \mathbb{Z} 24'57	
	11229 Jan 30 01:16	0° \mathbb{A}		asc. node	11230 Jan 05 04:21	4° \mathbb{Z} 38'19	
morning set	11229 Feb 09 22:53	18° \mathbb{A} 40'55		morning max el	11230 Jan 08 18:08	7° \mathbb{Z} 22'19	18°24'35
	11229 Feb 16 04:27	0° \mathbb{H}			11230 Jan 23 04:45	0° \mathbb{A}	
				morning set	11230 Jan 24 14:49	2° \mathbb{A} 42'29	
superior conj	11229 Feb 20 09:05	7° \mathbb{H} 24'33	0°03'12				
minimum elong	11229 Feb 20 09:24	7° \mathbb{H} 25'53	0°03'28	superior conj	11230 Feb 02 17:58	19° \mathbb{A} 58'31	0°37'36
behind sun begin	11229 Feb 20 01:23	6° \mathbb{H} 50'56		minimum elong	11230 Feb 02 20:28	20° \mathbb{A} 10'00	0°37'42
behind sun end	11229 Feb 20 17:24	8° \mathbb{H} 00'44		desc. node	11230 Feb 07 15:42	28° \mathbb{A} 48'12	
desc. node	11229 Feb 20 19:01	8° \mathbb{H} 07'44			11230 Feb 08 08:05	0° \mathbb{H}	
max. Earth dist.	11229 Feb 27 21:10	20° \mathbb{H} 06'56	1.42687 AU	max. Earth dist.	11230 Feb 10 06:07	3° \mathbb{H} 19'26	1.40643 AU
evening rise	11229 Mar 05 22:45	29° \mathbb{H} 53'55		evening rise	11230 Feb 14 15:56	10° \mathbb{H} 44'43	
	11229 Mar 06 00:17	0° \mathbb{Y}			11230 Feb 26 22:55	0° \mathbb{Y}	
	11229 Mar 26 05:52	0° \mathbb{B}		evening max el	11230 Mar 21 01:55	28° \mathbb{Y} 49'36	23°31'20
evening max el	11229 Apr 07 10:52	15° \mathbb{B} 02'13	22°10'56		11230 Mar 22 07:03	0° \mathbb{B}	
asc. node	11229 Apr 16 04:50	20° \mathbb{B} 37'36		retrograde	11230 Mar 31 18:57	5° \mathbb{B} 08'44	
retrograde	11229 Apr 16 24:00	20° \mathbb{B} 40'40		asc. node	11230 Apr 03 02:08	4° \mathbb{B} 43'48	
evening set	11229 Apr 21 15:36	18° \mathbb{B} 45'40		evening set	11230 Apr 05 22:02	2° \mathbb{B} 59'47	
inferior conj	11229 Apr 26 22:51	12° \mathbb{B} 24'57	2°49'31		11230 Apr 08 17:35	30° \mathbb{R} Y	
minimum elong	11229 Apr 26 21:00	12° \mathbb{B} 31'23	2°48'44	min. Earth dist.	11230 Apr 10 17:57	27° \mathbb{Y} 20'08	0.68595 AU
min. Earth dist.	11229 Apr 26 21:11	12° \mathbb{B} 30'46	0.68699 AU	inferior conj	11230 Apr 11 07:53	26° \mathbb{Y} 32'18	2°21'01
morning rise	11229 May 02 02:15	6° \mathbb{B} 13'23		minimum elong	11230 Apr 11 05:43	26° \mathbb{Y} 39'45	2°20'10
direct	11229 May 06 20:47	4° \mathbb{B} 11'59		morning rise	11230 Apr 16 13:21	20° \mathbb{Y} 27'09	
morning max el	11229 May 16 06:31	9° \mathbb{B} 42'50	22°08'18	direct	11230 Apr 20 18:43	18° \mathbb{Y} 47'08	
desc. node	11229 May 19 20:13	13° \mathbb{B} 37'07		morning max el	11230 Apr 29 00:04	23° \mathbb{Y} 29'07	20°47'03
	11229 Jun 01 03:55	0° \mathbb{I}			11230 May 04 16:01	0° \mathbb{B}	
morning set	11229 Jun 18 08:56	26° \mathbb{I} 15'21		desc. node	11230 May 06 17:01	2° \mathbb{B} 39'29	
	11229 Jun 20 16:13	0° \mathbb{D}			11230 May 25 11:25	0° \mathbb{I}	
max. Earth dist.	11229 Jun 23 18:45	5° \mathbb{D} 08'34	1.41239 AU	morning set	11230 May 28 20:01	5° \mathbb{I} 11'27	
				max. Earth dist.	11230 Jun 06 00:21	18° \mathbb{I} 10'06	1.43239 AU
superior conj	11229 Jul 01 12:57	18° \mathbb{D} 30'53	-1°34'39				
minimum elong	11229 Jul 01 19:16	18° \mathbb{D} 58'54	1°34'32	superior conj	11230 Jun 12 19:43	29° \mathbb{I} 23'21	-2°00'18
	11229 Jul 07 21:08	0° \mathbb{O}		minimum elong	11230 Jun 13 01:46	29° \mathbb{I} 48'47	2°00'34
evening rise	11229 Jul 12 00:27	7° \mathbb{O} 40'51			11230 Jun 13 04:26	0° \mathbb{D}	
asc. node	11229 Jul 13 03:34	9° \mathbb{O} 46'53		evening rise	11230 Jun 24 20:41	20° \mathbb{D} 15'38	
	11229 Jul 25 05:19	0° \mathbb{M}		asc. node	11230 Jun 30 00:30	29° \mathbb{D} 21'06	

	11230 Jun 30 09:29	0°♎				11231 Jun 25 11:03	0°♎		
evening max el	11230 Jul 11 13:45	16°♎18'47	18°04'05	retrograde		11231 Jul 01 12:19	3°♎03'19		
retrograde	11230 Jul 18 03:40	19°♎41'40		evening set		11231 Jul 04 09:26	2°♎19'24		
evening set	11230 Jul 20 16:42	19°♎11'08				11231 Jul 07 13:32	30°♎♊		
inferior conj	11230 Jul 27 07:23	14°♎09'39	1°47'36	inferior conj		11231 Jul 10 10:51	26°♎59'45	2°35'44	
minimum elong	11230 Jul 27 10:01	14°♎03'11	1°46'16	minimum elong		11231 Jul 10 13:20	26°♎52'50	2°34'34	
min. Earth dist.	11230 Jul 30 10:17	11°♎06'50	0.61233 AU	min. Earth dist.		11231 Jul 13 01:42	24°♎06'28	0.63432 AU	
desc. node	11230 Aug 02 16:12	8°♎24'52		morning rise		11231 Jul 16 15:37	20°♎45'49		
morning rise	11230 Aug 03 00:43	8°♎10'11		desc. node		11231 Jul 20 13:26	18°♎37'50		
direct	11230 Aug 09 16:09	5°♎55'22		direct		11231 Jul 23 08:18	18°♎11'52		
morning max el	11230 Aug 23 21:55	13°♎54'49	27°56'41	morning max el		11231 Aug 06 06:20	26°♎13'55	27°45'57	
	11230 Sep 05 20:17	0°♎				11231 Aug 09 18:15	0°♎		
	11230 Sep 23 06:45	0°♎				11231 Aug 30 10:36	0°♎		
morning set	11230 Sep 26 03:14	5°♎46'44		morning set		11231 Sep 09 22:52	19°♎34'09		
asc. node	11230 Sep 26 01:10	5°♎36'05		asc. node		11231 Sep 12 21:55	25°♎36'40		
max. Earth dist.	11230 Oct 01 21:26	18°♎04'38	1.31654 AU	max. Earth dist.		11231 Sep 14 23:19	29°♎56'05	1.32439 AU	
						11231 Sep 15 00:04	0°♎		
superior conj	11230 Oct 03 11:19	21°♎33'07	1°07'31						
minimum elong	11230 Oct 03 09:04	21°♎20'43	1°07'21	superior conj		11231 Sep 17 18:40	5°♎57'29	0°46'19	
	11230 Oct 07 06:59	0°♎		minimum elong		11231 Sep 17 16:43	5°♎46'54	0°45'57	
evening rise	11230 Oct 10 04:52	6°♎21'08		evening rise		11231 Sep 24 16:18	20°♎57'19		
	11230 Oct 22 10:29	0°♎				11231 Sep 29 00:33	0°♎		
desc. node	11230 Oct 29 13:25	10°♎40'01		desc. node		11231 Oct 16 10:43	27°♎15'37		
evening max el	11230 Nov 05 11:42	18°♎34'49	25°01'52	evening max el		11231 Oct 17 22:23	28°♎46'08	23°22'58	
retrograde	11230 Nov 19 07:48	25°♎31'24				11231 Oct 19 06:21	0°♎		
evening set	11230 Nov 24 23:27	24°♎19'30		retrograde		11231 Oct 31 08:08	5°♎26'54		
min. Earth dist.	11230 Nov 29 23:38	21°♎36'53	0.56864 AU	evening set		11231 Nov 04 15:41	4°♎46'29		
inferior conj	11230 Dec 02 16:58	19°♎49'55	-5°23'10	min. Earth dist.		11231 Nov 11 08:12	1°♎38'13	0.55372 AU	
minimum elong	11230 Dec 02 23:35	19°♎39'01	5°21'27	inferior conj		11231 Nov 13 00:54	0°♎38'44	-5°48'44	
morning rise	11230 Dec 11 01:58	15°♎40'32		minimum elong		11231 Nov 13 00:55	0°♎38'44	5°48'11	
direct	11230 Dec 13 10:31	15°♎24'40				11231 Nov 14 03:32	30°♎♎		
morning max el	11230 Dec 22 18:22	19°♎53'43	19°15'03	morning rise		11231 Nov 21 11:53	26°♎46'55		
asc. node	11230 Dec 23 01:26	20°♎11'00		direct		11231 Nov 24 09:25	26°♎26'37		
	11230 Dec 30 10:34	0°♎				11231 Dec 03 09:55	0°♎		
morning set	11231 Jan 08 15:52	17°♎08'06		morning max el		11231 Dec 05 05:30	1°♎34'53	20°28'26	
	11231 Jan 15 03:05	0°♎		asc. node		11231 Dec 09 22:28	6°♎58'02		
						11231 Dec 23 01:45	0°♎		
superior conj	11231 Jan 16 20:18	3°♎20'59	1°04'18	morning set		11231 Dec 23 22:45	1°♎47'29		
minimum elong	11231 Jan 16 23:18	3°♎35'33	1°04'29						
max. Earth dist.	11231 Jan 23 12:22	15°♎51'44	1.38429 AU	superior conj		11231 Dec 31 11:23	17°♎18'06	1°23'08	
desc. node	11231 Jan 25 12:30	19°♎27'19		minimum elong		11231 Dec 31 13:51	17°♎30'38	1°23'31	
evening rise	11231 Jan 27 06:39	22°♎32'14		max. Earth dist.		11232 Jan 05 20:07	27°♎54'41	1.36287 AU	
	11231 Jan 31 16:12	0°♎				11232 Jan 06 22:23	0°♎		
	11231 Feb 20 19:57	0°♎		evening rise		11232 Jan 09 16:30	5°♎08'15		
evening max el	11231 Mar 03 15:36	12°♎40'26	24°50'12	desc. node		11232 Jan 12 09:21	10°♎00'25		
retrograde	11231 Mar 15 10:00	19°♎31'37				11232 Jan 24 13:39	0°♎		
asc. node	11231 Mar 20 23:26	17°♎14'17		evening max el		11232 Feb 14 05:09	26°♎30'17	26°00'32	
evening set	11231 Mar 21 01:04	17°♎10'50				11232 Feb 18 04:45	0°♎		
min. Earth dist.	11231 Mar 25 13:11	12°♎06'27	0.68066 AU	retrograde		11232 Feb 26 20:09	3°♎42'28		
inferior conj	11231 Mar 26 15:05	10°♎40'48	1°42'59	evening set		11232 Mar 03 23:03	1°♎12'57		
minimum elong	11231 Mar 26 13:03	10°♎47'32	1°42'15			11232 Mar 05 07:01	30°♎♎		
morning rise	11231 Apr 01 01:14	4°♎43'27		asc. node		11232 Mar 06 20:45	28°♎18'32		
direct	11231 Apr 04 18:12	3°♎24'33		min. Earth dist.		11232 Mar 08 04:34	26°♎43'36	0.67124 AU	
morning max el	11231 Apr 12 01:12	7°♎27'22	19°38'35	inferior conj		11232 Mar 09 18:27	24°♎45'26	0°55'23	
desc. node	11231 Apr 23 13:47	22°♎14'50		minimum elong		11232 Mar 09 17:07	24°♎49'36	0°55'00	
greatest brilliancy	11231 Apr 24 18:35	23°♎59'50	-0.6m	morning rise		11232 Mar 15 11:51	18°♎57'44		
	11231 Apr 28 19:35	0°♎		direct		11232 Mar 18 17:31	17°♎58'04		
morning set	11231 May 07 19:26	13°♎41'17		morning max el		11232 Mar 25 09:50	21°♎34'30	18°45'39	
	11231 May 18 06:58	0°♎				11232 Apr 01 06:05	0°♎		
max. Earth dist.	11231 May 19 12:58	1°♎58'28	1.44736 AU	desc. node		11232 Apr 09 10:29	12°♎13'49		
				morning set		11232 Apr 16 06:12	22°♎50'39		
superior conj	11231 May 24 02:24	9°♎14'42	-2°12'52			11232 Apr 20 20:12	0°♎		
minimum elong	11231 May 24 03:46	9°♎20'14	2°13'28	max. Earth dist.		11232 May 01 06:52	16°♎18'44	1.45565 AU	
	11231 Jun 05 17:10	0°♎							
evening rise	11231 Jun 06 20:58	1°♎56'54		superior conj		11232 May 02 13:52	18°♎20'10	-2°06'27	
asc. node	11231 Jun 16 21:31	18°♎35'07		minimum elong		11232 May 02 07:47	17°♎56'18	2°06'37	
evening max el	11231 Jun 25 03:46	29°♎42'18	18°11'17			11232 May 09 23:33	0°♎		

evening rise	11232 May 17 21:32	12° Π 38'08		max. Earth dist.	11233 Apr 14 02:49	0° \mathcal{B} 52'03	1.45649 AU
greatest brilliancy	11232 May 24 09:37	23° Π 04'48	-0.9m	evening rise	11233 Apr 27 23:26	22° \mathcal{B} 26'21	
	11232 May 28 18:55	0° \mathcal{B}			11233 May 02 20:29	0° Π	
asc. node	11232 Jun 02 18:35	7° \mathcal{B} 21'35		greatest brilliancy	11233 May 10 01:43	11° Π 03'00	-0.7m
evening max el	11232 Jun 07 16:12	13° \mathcal{B} 17'47	18°36'31	asc. node	11233 May 20 15:42	25° Π 31'10	
retrograde	11232 Jun 14 04:50	16° \mathcal{B} 50'45		evening max el	11233 May 22 00:41	26° Π 58'58	19°18'50
evening set	11232 Jun 17 10:04	15° \mathcal{B} 51'57			11233 May 25 19:31	0° \mathcal{B}	
inferior conj	11232 Jun 23 02:04	10° \mathcal{B} 15'53	3°03'50	retrograde	11233 May 29 01:46	0° \mathcal{B} 56'28	
minimum elong	11232 Jun 23 03:39	10° \mathcal{B} 11'04	3°02'57		11233 Jun 01 04:27	30° $\mathcal{R}\Pi$	
min. Earth dist.	11232 Jun 25 02:18	7° \mathcal{B} 49'21	0.65344 AU	evening set	11233 Jun 01 15:31	29° Π 42'02	
morning rise	11232 Jun 28 20:21	3° \mathcal{B} 55'21		inferior conj	11233 Jun 07 01:35	23° Π 51'10	3°15'41
direct	11232 Jul 05 08:16	1° \mathcal{B} 12'50		minimum elong	11233 Jun 07 02:01	23° Π 49'44	3°15'00
desc. node	11232 Jul 06 10:36	1° \mathcal{B} 17'00		min. Earth dist.	11233 Jun 08 10:54	22° Π 02'28	0.66865 AU
morning max el	11232 Jul 18 17:05	9° \mathcal{B} 06'05	27°02'07	morning rise	11233 Jun 12 12:03	17° Π 29'29	
	11232 Aug 04 01:21	0° \mathcal{Q}		direct	11233 Jun 18 14:58	14° Π 48'39	
	11232 Aug 21 20:35	0° \mathcal{M}		desc. node	11233 Jun 23 07:42	16° Π 05'39	
morning set	11232 Aug 23 08:37	2° \mathcal{M} 51'49		morning max el	11233 Jul 01 03:49	22° Π 18'43	25°53'05
max. Earth dist.	11232 Aug 27 16:31	11° \mathcal{M} 25'08	1.33731 AU		11233 Jul 07 21:32	0° \mathcal{B}	
asc. node	11232 Aug 29 18:41	15° \mathcal{M} 42'00			11233 Jul 28 07:58	0° \mathcal{Q}	
				morning set	11233 Aug 06 04:44	15° \mathcal{Q} 29'29	
superior conj	11232 Aug 31 20:43	20° \mathcal{M} 03'05	0°20'17	max. Earth dist.	11233 Aug 09 23:08	22° \mathcal{Q} 33'31	1.35500 AU
minimum elong	11232 Aug 31 19:41	19° \mathcal{M} 57'42	0°19'53		11233 Aug 13 18:30	0° \mathcal{M}	
	11232 Sep 05 13:01	0° \mathcal{Q}					
evening rise	11232 Sep 08 02:54	5° \mathcal{Q} 28'46		superior conj	11233 Aug 15 14:44	3° \mathcal{M} 42'04	-0°09'58
	11232 Sep 21 07:50	0° \mathcal{M}		minimum elong	11233 Aug 15 15:21	3° \mathcal{M} 45'08	0°10'12
evening max el	11232 Sep 28 12:09	8° \mathcal{M} 55'42	21°44'00	behind sun begin	11233 Aug 15 10:34	3° \mathcal{M} 20'57	
desc. node	11232 Oct 02 08:04	12° \mathcal{M} 08'25		behind sun end	11233 Aug 15 20:08	4° \mathcal{M} 09'22	
retrograde	11232 Oct 10 22:08	15° \mathcal{M} 06'13		asc. node	11233 Aug 16 15:26	5° \mathcal{M} 47'27	
evening set	11232 Oct 13 19:45	14° \mathcal{M} 47'11		evening rise	11233 Aug 23 10:30	19° \mathcal{M} 48'34	
inferior conj	11232 Oct 22 19:07	10° \mathcal{M} 50'33	-5°19'43		11233 Aug 28 12:40	0° \mathcal{Q}	
minimum elong	11232 Oct 22 11:12	11° \mathcal{M} 01'37	5°17'59	evening max el	11233 Sep 10 13:22	19° \mathcal{Q} 37'01	20°19'05
min. Earth dist.	11232 Oct 22 14:58	10° \mathcal{M} 56'22	0.54632 AU	desc. node	11233 Sep 19 05:25	24° \mathcal{Q} 48'24	
morning rise	11232 Oct 31 03:51	7° \mathcal{M} 02'52		retrograde	11233 Sep 21 10:38	25° \mathcal{Q} 01'29	
direct	11232 Nov 03 19:06	6° \mathcal{M} 34'05		evening set	11233 Sep 23 11:11	24° \mathcal{Q} 51'05	
morning max el	11232 Nov 16 03:09	12° \mathcal{M} 25'43	22°02'43	inferior conj	11233 Oct 02 12:32	20° \mathcal{Q} 53'40	-3°56'25
asc. node	11232 Nov 25 19:26	24° \mathcal{M} 43'44		minimum elong	11233 Oct 02 02:52	21° \mathcal{Q} 07'53	3°53'12
	11232 Nov 28 22:38	0° \mathcal{X}		min. Earth dist.	11233 Oct 03 23:26	20° \mathcal{Q} 02'21	0.54816 AU
morning set	11232 Dec 07 09:02	16° \mathcal{X} 33'53		morning rise	11233 Oct 10 17:49	16° \mathcal{Q} 48'47	
	11232 Dec 13 16:40	0° \mathcal{Z}		direct	11233 Oct 15 04:21	16° \mathcal{Q} 06'16	
				morning max el	11233 Oct 28 15:50	22° \mathcal{Q} 40'20	23°49'29
superior conj	11232 Dec 14 11:32	1° \mathcal{Z} 39'37	1°34'33		11233 Nov 04 03:15	0° \mathcal{M}	
minimum elong	11232 Dec 14 12:58	1° \mathcal{Z} 47'11	1°35'09	asc. node	11233 Nov 12 16:19	13° \mathcal{M} 13'40	
max. Earth dist.	11232 Dec 18 09:38	9° \mathcal{Z} 47'21	1.34422 AU		11233 Nov 21 05:28	0° \mathcal{X}	
evening rise	11232 Dec 22 18:00	18° \mathcal{Z} 24'03		morning set	11233 Nov 21 20:45	1° \mathcal{X} 21'10	
desc. node	11232 Dec 29 06:16	0° \approx 23'14					
	11232 Dec 29 00:59	0° \approx		superior conj	11233 Nov 28 17:45	16° \mathcal{X} 16'24	1°39'13
	11233 Jan 17 18:26	0° \mathcal{H}		minimum elong	11233 Nov 28 18:01	16° \mathcal{X} 17'48	1°39'52
evening max el	11233 Jan 26 18:38	10° \mathcal{H} 11'24	26°54'59	max. Earth dist.	11233 Dec 01 06:51	21° \mathcal{X} 45'02	1.32961 AU
retrograde	11233 Feb 09 00:38	17° \mathcal{H} 33'59			11233 Dec 05 05:44	0° \mathcal{Z}	
evening set	11233 Feb 15 14:04	15° \mathcal{H} 00'26		evening rise	11233 Dec 06 07:32	2° \mathcal{Z} 10'28	
min. Earth dist.	11233 Feb 19 13:56	11° \mathcal{H} 05'08	0.65792 AU	desc. node	11233 Dec 16 03:16	20° \mathcal{Z} 30'07	
inferior conj	11233 Feb 21 15:48	8° \mathcal{H} 41'20	-0°01'50		11233 Dec 21 22:10	0° \approx	
minimum elong	11233 Feb 21 15:50	8° \mathcal{H} 41'13	0°01'30	evening max el	11234 Jan 09 07:13	23° \approx 33'41	27°26'30
transit middle	11233 Feb 21 15:50	8° \mathcal{H} 41'13	0°01'30		11234 Jan 18 10:04	0° \mathcal{H}	
transit begin	11233 Feb 21 12:53	8° \mathcal{H} 49'46		retrograde	11234 Jan 22 22:53	0° \mathcal{H} 57'35	
transit end	11233 Feb 21 18:47	8° \mathcal{H} 32'41			11234 Jan 27 05:21	30° $\mathcal{R}\approx$	
asc. node	11233 Feb 21 18:02	8° \mathcal{H} 34'51		evening set	11234 Jan 29 19:53	28° \approx 26'47	
morning rise	11233 Feb 27 18:54	3° \mathcal{H} 05'22		min. Earth dist.	11234 Feb 02 15:18	25° \approx 03'02	0.64109 AU
direct	11233 Mar 02 14:35	2° \mathcal{H} 21'58		inferior conj	11234 Feb 05 04:35	22° \approx 22'39	-1°08'16
morning max el	11233 Mar 09 00:11	5° \mathcal{H} 44'40	18°09'17	minimum elong	11234 Feb 05 06:44	22° \approx 17'03	1°06'55
	11233 Mar 25 18:05	0° \mathcal{Y}		asc. node	11234 Feb 08 15:17	19° \approx 02'26	
desc. node	11233 Mar 27 07:10	2° \mathcal{Y} 30'00		morning rise	11234 Feb 11 19:34	17° \approx 00'58	
morning set	11233 Mar 27 19:50	3° \mathcal{Y} 21'13		direct	11234 Feb 14 06:59	16° \approx 30'08	
				morning max el	11234 Feb 20 17:31	19° \approx 50'15	17°49'59
superior conj	11233 Apr 11 21:05	27° \mathcal{Y} 21'30	-1°40'24		11234 Feb 28 09:18	0° \mathcal{H}	
minimum elong	11233 Apr 11 11:38	26° \mathcal{Y} 44'23	1°39'45	morning set	11234 Mar 09 13:45	15° \mathcal{H} 14'27	
	11233 Apr 13 13:31	0° \mathcal{B}		desc. node	11234 Mar 14 03:51	22° \mathcal{H} 58'27	

	11234 Mar 18 09:23	0°♊				11235 Feb 21 06:37	0°♋	
				desc. node		11235 Mar 01 00:31	13°♋34'26	
superior conj	11234 Mar 22 18:00	7°♊06'19 -1°01'36			superior conj	11235 Mar 03 14:26	17°♋58'10 -0°19'35	
minimum elong	11234 Mar 22 11:24	6°♊39'41 1°00'44			minimum elong	11235 Mar 03 12:34	17°♋50'15 0°19'05	
max. Earth dist.	11234 Mar 27 21:52	15°♊20'59 1.44995 AU			max. Earth dist.	11235 Mar 10 14:03	29°♋30'45 1.43685 AU	
	11234 Apr 06 07:34	0°♌				11235 Mar 10 21:17	0°♊	
evening rise	11234 Apr 07 11:56	1°♌48'51			evening rise	11235 Mar 18 02:17	11°♊24'21	
	11234 Apr 26 12:00	0°♍				11235 Mar 30 10:17	0°♌	
evening max el	11234 May 05 03:50	10°♍42'56 20°16'32			evening max el	11235 Apr 18 01:26	24°♌27'49 21°26'44	
asc. node	11234 May 07 12:53	12°♍52'28			asc. node	11235 Apr 24 10:07	29°♌10'19	
retrograde	11234 May 13 00:28	15°♍15'11			retrograde	11235 Apr 26 22:51	29°♌41'12	
evening set	11234 May 16 23:29	13°♍44'51			evening set	11235 May 01 08:07	27°♌55'07	
inferior conj	11234 May 22 06:36	7°♍40'54 3°14'15			inferior conj	11235 May 06 14:43	21°♌40'01 3°01'29	
minimum elong	11234 May 22 05:57	7°♍43'05 3°13'36			minimum elong	11235 May 06 13:14	21°♌45'13 3°00'47	
min. Earth dist.	11234 May 23 01:42	6°♍35'40 0.67943 AU			min. Earth dist.	11235 May 06 20:28	21°♌20'01 0.68558 AU	
morning rise	11234 May 27 12:07	1°♍21'33			morning rise	11235 May 11 18:07	15°♌25'13	
	11234 May 29 07:05	30°♌♌			direct	11235 May 16 20:28	13°♌11'56	
direct	11234 Jun 02 03:26	28°♌51'16			morning max el	11235 May 26 23:48	19°♌12'48 22°58'47	
	11234 Jun 06 08:49	0°♍			desc. node	11235 May 28 01:36	20°♌19'35	
desc. node	11234 Jun 10 04:41	2°♍35'31				11235 Jun 05 01:57	0°♍	
morning max el	11234 Jun 13 13:36	5°♍42'25 24°28'37				11235 Jun 25 11:58	0°♌	
	11234 Jul 02 08:23	0°♎			morning set	11235 Jun 30 09:40	7°♎58'26	
morning set	11234 Jul 19 06:47	27°♎16'07			max. Earth dist.	11235 Jul 04 18:46	15°♎21'38 1.39954 AU	
	11234 Jul 20 20:04	0°♏						
max. Earth dist.	11234 Jul 22 21:38	3°♏41'46 1.37645 AU			superior conj	11235 Jul 12 13:19	29°♎08'49 -1°16'34	
					minimum elong	11235 Jul 12 18:36	29°♎33'01 1°16'24	
superior conj	11234 Jul 29 21:36	16°♏47'10 -0°43'02				11235 Jul 13 00:29	0°♏	
minimum elong	11234 Jul 30 00:28	17°♏01'00 0°43'00			asc. node	11235 Jul 21 09:04	15°♏44'43	
asc. node	11234 Aug 03 12:13	25°♏49'42			evening rise	11235 Jul 22 06:28	17°♏26'58	
	11234 Aug 05 14:27	0°♐				11235 Jul 29 00:25	0°♐	
evening rise	11234 Aug 07 12:42	3°♐50'39			evening max el	11235 Aug 07 07:11	13°♐18'22 18°31'12	
	11234 Aug 23 03:35	0°♑			retrograde	11235 Aug 15 02:46	17°♐13'41	
evening max el	11234 Aug 24 04:33	1°♑05'29 19°14'29			evening set	11235 Aug 17 03:47	16°♐58'27	
retrograde	11234 Sep 02 09:29	5°♑40'26			desc. node	11235 Aug 24 00:03	13°♐11'44	
evening set	11234 Sep 04 05:43	5°♑30'12			inferior conj	11235 Aug 24 22:26	12°♐28'36 -0°17'18	
desc. node	11234 Sep 06 02:44	5°♑00'06			minimum elong	11235 Aug 24 21:45	12°♐29'55 0°17'18	
inferior conj	11234 Sep 12 19:05	1°♑20'09 -2°05'02			min. Earth dist.	11235 Aug 28 05:10	9°♐56'26 0.57723 AU	
minimum elong	11234 Sep 12 13:35	1°♑29'18 2°02'58			morning rise	11235 Sep 01 12:15	7°♐13'21	
	11234 Sep 14 19:09	30°♐♐			direct	11235 Sep 07 11:56	5°♐42'27	
min. Earth dist.	11234 Sep 15 11:39	29°♐33'04 0.55918 AU			morning max el	11235 Sep 21 19:45	13°♐17'05 26°56'19	
morning rise	11234 Sep 20 18:39	26°♐41'57				11235 Oct 05 01:29	0°♑	
direct	11234 Sep 26 01:00	25°♐38'15			asc. node	11235 Oct 17 09:58	21°♑44'45	
	11234 Oct 06 21:37	0°♒				11235 Oct 21 10:16	0°♐	
morning max el	11234 Oct 10 03:16	2°♑47'24 25°33'10			morning set	11235 Oct 21 17:44	0°♐39'40	
	11234 Oct 29 07:58	0°♑						
asc. node	11234 Oct 30 13:09	2°♑16'53			superior conj	11235 Oct 28 15:18	15°♑48'17 1°30'18	
morning set	11234 Nov 06 08:11	16°♑04'32			minimum elong	11235 Oct 28 13:37	15°♑38'55 1°30'35	
	11234 Nov 12 16:35	0°♓			max. Earth dist.	11235 Oct 28 19:37	16°♑12'19 1.31459 AU	
					evening rise	11235 Nov 04 10:55	0°♓44'42	
superior conj	11234 Nov 13 03:40	1°♓01'19 1°37'40				11235 Nov 04 02:31	0°♓	
minimum elong	11234 Nov 13 02:51	0°♓56'43 1°38'12			desc. node	11235 Nov 19 21:27	29°♓25'42	
max. Earth dist.	11234 Nov 14 11:05	3°♓54'27 1.31968 AU				11235 Nov 20 06:13	0°♔	
evening rise	11234 Nov 20 06:03	16°♓19'39			evening max el	11235 Dec 04 21:41	18°♔33'48 26°56'50	
	11234 Nov 27 04:47	0°♕			retrograde	11235 Dec 18 19:54	25°♔43'26	
desc. node	11234 Dec 03 00:20	10°♕13'59			evening set	11235 Dec 25 15:39	23°♔44'06	
	11234 Dec 16 18:10	0°♖			min. Earth dist.	11235 Dec 29 12:07	21°♔04'34 0.60048 AU	
evening max el	11234 Dec 22 17:06	6°♖25'12 27°28'33			inferior conj	11236 Jan 01 16:05	18°♔29'35 -3°39'39	
retrograde	11235 Jan 05 13:47	13°♖43'26			minimum elong	11236 Jan 01 23:26	18°♔14'32 3°36'32	
evening set	11235 Jan 12 13:37	11°♖23'50			morning rise	11236 Jan 09 09:57	13°♔45'08	
min. Earth dist.	11235 Jan 16 07:02	8°♖26'37 0.62155 AU			direct	11236 Jan 11 12:37	13°♔28'06	
inferior conj	11235 Jan 19 05:49	5°♖41'39 -2°22'20			asc. node	11236 Jan 13 09:41	13°♔42'08	
minimum elong	11235 Jan 19 10:37	5°♖30'25 2°19'52			morning max el	11236 Jan 19 00:19	17°♔11'44 18°05'29	
morning rise	11235 Jan 26 10:11	0°♖36'59				11236 Jan 28 01:56	0°♖	
asc. node	11235 Jan 26 12:30	0°♖35'08			morning set	11236 Feb 03 15:18	11°♖55'31	
direct	11235 Jan 28 15:34	0°♖14'53						
morning max el	11235 Feb 04 10:42	3°♖42'14 17°48'19			superior conj	11236 Feb 13 11:10	29°♖58'23 0°18'41	
morning set	11235 Feb 20 06:20	28°♖12'02						

minimum elong	11236 Feb 13 12:38	0° H 04'57	0°18'50	superior conj	11237 Jan 26 04:05	12° \approx 54'53	0°49'54
	11236 Feb 13 11:31	0° H		minimum elong	11237 Jan 26 06:58	13° \approx 08'26	0°50'00
desc. node	11236 Feb 15 21:15	4° H 14'43		desc. node	11237 Feb 01 18:01	24° \approx 55'11	
max. Earth dist.	11236 Feb 21 02:10	13° H 09'01	1.41859 AU	max. Earth dist.	11237 Feb 02 10:00	26° \approx 05'34	1.39711 AU
evening rise	11236 Feb 26 07:48	21° H 44'10			11237 Feb 04 16:03	0° H	
	11236 Mar 02 13:36	0° Y		evening rise	11237 Feb 06 10:11	2° H 59'13	
	11236 Mar 23 14:39	0° B			11237 Feb 23 19:12	0° Y	
evening max el	11236 Mar 30 18:28	8° B 14'26	22°44'55	evening max el	11237 Mar 13 08:40	22° Y 03'14	24°05'27
retrograde	11236 Apr 09 19:20	14° B 10'11		retrograde	11237 Mar 24 12:43	28° Y 37'00	
asc. node	11236 Apr 10 07:23	14° B 08'58		asc. node	11237 Mar 28 04:41	27° Y 34'54	
evening set	11236 Apr 14 15:48	12° B 09'03		evening set	11237 Mar 29 21:01	26° Y 22'26	
inferior conj	11236 Apr 19 23:58	5° B 45'17	2°38'34	min. Earth dist.	11237 Apr 03 13:20	20° Y 58'07	0.68423 AU
minimum elong	11236 Apr 19 21:56	5° B 52'20	2°37'46	inferior conj	11237 Apr 04 08:27	19° Y 53'21	2°06'01
min. Earth dist.	11236 Apr 19 17:04	6° B 09'17	0.68714 AU	minimum elong	11237 Apr 04 06:17	20° Y 00'43	2°05'13
	11236 Apr 24 17:11	30° R Y		morning rise	11237 Apr 09 15:38	13° Y 51'38	
morning rise	11236 Apr 25 03:57	29° Y 36'27		direct	11237 Apr 13 15:35	12° Y 20'52	
direct	11236 Apr 29 16:56	27° Y 43'54		morning max el	11237 Apr 21 10:32	16° Y 44'26	20°16'13
	11236 May 05 07:13	0° B		desc. node	11237 Apr 30 19:17	28° Y 15'30	
morning max el	11236 May 08 13:46	2° B 52'30	21°32'27		11237 May 02 01:12	0° B	
desc. node	11236 May 13 22:28	8° B 57'50		morning set	11237 May 19 14:06	26° B 08'22	
	11236 May 29 00:54	0° II			11237 May 22 01:52	0° II	
morning set	11236 Jun 09 10:21	17° II 29'59		max. Earth dist.	11237 May 29 06:10	11° II 19'42	1.43944 AU
max. Earth dist.	11236 Jun 15 21:01	27° II 54'49	1.42143 AU				
	11236 Jun 17 03:16	0° B		superior conj	11237 Jun 04 05:46	21° II 02'23	-2°07'38
superior conj	11236 Jun 23 09:19	10° B 36'29	-1°46'41	minimum elong	11237 Jun 04 10:27	21° II 21'38	2°08'05
minimum elong	11236 Jun 23 15:57	11° B 05'12	1°46'41		11237 Jun 09 14:40	0° B	
evening rise	11236 Jul 04 11:54	0° B 27'47		evening rise	11237 Jun 17 00:18	12° B 41'45	
	11236 Jul 04 05:49	0° B		asc. node	11237 Jun 24 02:57	24° B 54'57	
asc. node	11236 Jul 07 05:58	5° B 28'08			11237 Jun 27 05:53	0° B	
evening max el	11236 Jul 20 17:11	26° B 06'07	18°08'21	evening max el	11237 Jul 04 06:41	9° B 19'12	18°04'52
retrograde	11236 Jul 27 14:44	29° B 36'43		retrograde	11237 Jul 10 17:15	12° B 39'58	
evening set	11236 Jul 29 23:12	29° B 12'38		evening set	11237 Jul 13 09:38	12° B 04'03	
inferior conj	11236 Aug 05 23:12	24° B 21'57	1°09'12	inferior conj	11237 Jul 19 18:10	6° B 54'25	2°10'42
minimum elong	11236 Aug 06 01:15	24° B 17'17	1°08'03	minimum elong	11237 Jul 19 20:53	6° B 47'22	2°09'24
min. Earth dist.	11236 Aug 09 06:11	21° B 23'58	0.59917 AU	min. Earth dist.	11237 Jul 22 16:23	3° B 53'13	0.62183 AU
desc. node	11236 Aug 09 21:23	20° B 51'50		morning rise	11237 Jul 26 05:57	0° B 47'22	
morning rise	11236 Aug 13 00:15	18° B 35'37			11237 Jul 27 10:54	30° R B	
direct	11236 Aug 19 11:43	16° B 36'04		desc. node	11237 Jul 27 18:39	29° B 48'52	
morning max el	11236 Sep 02 19:40	24° B 28'24	27°45'52	direct	11237 Aug 01 22:29	28° B 23'30	
	11236 Sep 07 20:34	0° B			11237 Aug 07 19:47	0° B	
	11236 Sep 27 09:20	0° B		morning max el	11237 Aug 16 01:57	6° B 25'42	27°56'43
asc. node	11236 Oct 03 06:44	11° B 29'36			11237 Sep 02 23:03	0° B	
morning set	11236 Oct 04 23:32	15° B 00'45		morning set	11237 Sep 18 23:37	29° B 02'47	
max. Earth dist.	11236 Oct 11 04:42	28° B 28'20	1.31442 AU		11237 Sep 19 10:47	0° B	
	11236 Oct 11 21:13	0° B		asc. node	11237 Sep 20 03:30	1° B 26'10	
				max. Earth dist.	11237 Sep 24 10:22	10° B 32'01	1.31927 AU
superior conj	11236 Oct 12 02:43	0° B 30'39	1°17'24	superior conj	11237 Sep 26 12:09	15° B 03'26	0°59'10
minimum elong	11236 Oct 12 00:33	0° B 18'35	1°17'23	minimum elong	11237 Sep 26 09:57	14° B 51'25	0°58'53
evening rise	11236 Oct 18 19:52	15° B 18'15		evening rise	11237 Oct 03 06:56	29° B 55'07	
	11236 Oct 26 01:31	0° B			11237 Oct 03 07:51	0° B	
desc. node	11236 Nov 05 18:40	17° B 51'40			11237 Oct 19 17:25	0° B	
	11236 Nov 15 22:37	0° B		desc. node	11237 Oct 23 15:55	5° B 14'17	
evening max el	11236 Nov 15 18:15	29° B 49'42	25°51'37	evening max el	11237 Oct 28 06:59	10° B 17'52	24°20'48
retrograde	11236 Nov 29 15:47	6° B 51'18		retrograde	11237 Nov 10 23:59	17° B 09'38	
evening set	11236 Dec 05 21:27	5° B 20'15		evening set	11237 Nov 16 03:09	16° B 11'29	
min. Earth dist.	11236 Dec 10 06:49	2° B 44'20	0.57963 AU	min. Earth dist.	11237 Nov 21 18:02	13° B 20'14	0.56159 AU
inferior conj	11236 Dec 13 07:48	0° B 35'17	-4°50'58	inferior conj	11237 Nov 24 02:55	11° B 51'59	-5°39'37
minimum elong	11236 Dec 13 15:52	0° B 20'57	4°48'23	minimum elong	11237 Nov 24 07:20	11° B 45'07	5°38'35
	11236 Dec 14 03:47	30° R B		morning rise	11237 Dec 02 13:37	7° B 51'27	
morning rise	11236 Dec 21 12:48	26° B 13'29		direct	11237 Dec 05 02:44	7° B 34'19	
direct	11236 Dec 23 17:29	25° B 58'10		morning max el	11237 Dec 15 01:36	12° B 18'51	19°43'29
asc. node	11236 Dec 30 06:49	28° B 24'45		asc. node	11237 Dec 17 03:53	14° B 31'11	
	11237 Jan 01 03:28	0° B			11237 Dec 27 04:27	0° B	
morning max el	11237 Jan 01 06:34	0° B 07'27	18°43'18	morning set	11238 Jan 01 15:24	10° B 41'16	
morning set	11237 Jan 17 11:35	26° B 08'54					
	11237 Jan 19 10:58	0° \approx		superior conj	11238 Jan 09 12:21	26° B 33'52	1°13'13

minimum elong	11238 Jan 09 15:14	26° Z 48'03	1°13'29	superior conj	11238 Dec 24 07:44	10° Z 43'10	1°28'49
	11238 Jan 11 06:23	0° \approx		minimum elong	11238 Dec 24 09:48	10° Z 53'51	1°29'19
max. Earth dist.	11238 Jan 15 16:03	8° \approx 22'24	1.37495 AU	max. Earth dist.	11238 Dec 29 01:29	20° Z 17'34	1.35449 AU
evening rise	11238 Jan 19 09:24	15° \approx 08'14		evening rise	11239 Jan 02 02:24	28° Z 03'15	
desc. node	11238 Jan 19 14:50	15° \approx 32'21			11239 Jan 03 03:31	0° \approx	
	11238 Jan 28 04:26	0° H		desc. node	11239 Jan 06 11:42	6° \approx 02'12	
	11238 Feb 18 11:46	0° Y			11239 Jan 21 11:25	0° H	
evening max el	11238 Feb 23 21:56	5° Y 53'25	25°21'35	evening max el	11239 Feb 06 11:31	19° H 41'22	26°26'06
retrograde	11238 Mar 08 01:55	12° Y 55'42		retrograde	11239 Feb 19 09:56	26° H 59'52	
evening set	11238 Mar 13 22:07	10° Y 30'28		evening set	11239 Feb 25 17:24	24° H 28'05	
asc. node	11238 Mar 15 01:59	9° Y 26'03		asc. node	11239 Mar 01 23:16	20° H 04'38	
min. Earth dist.	11238 Mar 18 07:11	5° Y 41'08	0.67710 AU	min. Earth dist.	11239 Mar 01 20:24	20° H 13'09	0.66598 AU
inferior conj	11238 Mar 19 14:15	4° Y 00'36	1°23'57	inferior conj	11239 Mar 03 15:22	18° H 03'05	0°32'19
minimum elong	11238 Mar 19 12:27	4° Y 06'27	1°23'20	minimum elong	11239 Mar 03 14:32	18° H 05'38	0°32'11
	11238 Mar 22 22:36	30° R H		morning rise	11239 Mar 09 12:36	12° H 19'54	
morning rise	11238 Mar 25 03:12	28° H 07'15		direct	11239 Mar 12 13:45	11° H 27'39	
direct	11238 Mar 28 15:05	26° H 57'04		morning max el	11239 Mar 19 02:24	14° H 57'09	18°28'03
	11238 Apr 03 18:57	0° Y			11239 Mar 30 07:26	0° Y	
morning max el	11238 Apr 04 15:03	0° Y 47'21	19°14'05	desc. node	11239 Apr 04 12:44	8° Y 09'24	
greatest brilliancy	11238 Apr 17 12:45	17° Y 49'38	-0.7m	morning set	11239 Apr 08 12:40	14° Y 28'32	
desc. node	11238 Apr 17 16:01	18° Y 01'50			11239 Apr 18 09:06	0° B	
	11238 Apr 25 12:59	0° B					
morning set	11238 Apr 28 15:26	4° B 46'47		superior conj	11239 Apr 24 10:30	9° B 28'53	-1°57'32
max. Earth dist.	11238 May 11 20:55	25° B 22'08	1.45166 AU	minimum elong	11239 Apr 24 02:07	8° B 56'09	1°57'21
	11238 May 14 19:20	0° II		max. Earth dist.	11239 Apr 24 15:33	9° B 48'38	1.45693 AU
					11239 May 07 12:40	0° II	
superior conj	11238 May 15 03:01	0° II 30'24	-2°12'42	evening rise	11239 May 10 05:05	4° II 14'08	
minimum elong	11238 May 15 01:12	0° II 23'16	2°13'13	greatest brilliancy	11239 May 19 11:15	18° II 48'55	-0.8m
evening rise	11238 May 29 14:46	23° II 57'36			11239 May 26 23:44	0° B	
	11238 Jun 02 06:35	0° B		asc. node	11239 May 28 21:03	2° B 30'32	
asc. node	11238 Jun 10 23:58	13° B 58'20		evening max el	11239 Jun 01 07:20	6° B 27'08	18°52'33
evening max el	11238 Jun 17 20:18	22° B 48'22	18°19'54	retrograde	11239 Jun 08 00:17	10° B 08'54	
retrograde	11238 Jun 24 05:43	26° B 13'09		evening set	11239 Jun 11 09:05	9° B 03'35	
evening set	11238 Jun 27 06:08	25° B 23'15		inferior conj	11239 Jun 16 22:11	3° B 21'20	3°10'38
inferior conj	11238 Jul 03 03:05	19° B 56'34	2°49'51	minimum elong	11239 Jun 16 23:18	3° B 17'52	3°09'50
minimum elong	11238 Jul 03 05:15	19° B 50'19	2°48'48	min. Earth dist.	11239 Jun 18 16:09	1° B 09'38	0.66048 AU
min. Earth dist.	11238 Jul 05 11:57	17° B 12'36	0.64280 AU		11239 Jun 19 15:13	30° R II	
morning rise	11238 Jul 09 03:04	13° B 38'46		morning rise	11239 Jun 22 12:49	26° II 59'51	
desc. node	11238 Jul 14 15:51	11° B 03'45		direct	11239 Jun 28 21:28	24° II 16'31	
direct	11238 Jul 15 18:19	10° B 59'35		desc. node	11239 Jul 01 12:59	24° II 40'58	
morning max el	11238 Jul 29 11:44	19° B 00'34	27°30'58		11239 Jul 09 19:57	0° B	
	11238 Aug 07 19:08	0° Q		morning max el	11239 Jul 11 22:26	2° B 01'49	26°35'10
	11238 Aug 26 22:26	0° P			11239 Aug 01 22:59	0° Q	
morning set	11238 Sep 02 15:26	12° P 38'46		morning set	11239 Aug 16 19:49	25° Q 40'18	
asc. node	11238 Sep 07 00:15	21° P 29'25			11239 Aug 19 02:05	0° P	
max. Earth dist.	11238 Sep 07 08:42	22° P 13'18	1.32921 AU	max. Earth dist.	11239 Aug 20 21:00	3° P 30'16	1.34425 AU
				asc. node	11239 Aug 24 21:00	11° P 35'13	
superior conj	11238 Sep 10 17:30	29° P 20'36	0°35'51				
minimum elong	11238 Sep 10 15:52	29° P 11'49	0°35'27	superior conj	11239 Aug 25 16:28	13° P 15'45	0°07'55
	11238 Sep 11 00:51	0° Q		minimum elong	11239 Aug 25 16:03	13° P 13'34	0°07'35
evening rise	11238 Sep 17 18:13	14° Q 29'43		behind sun begin	11239 Aug 25 10:52	12° P 46'46	
	11238 Sep 25 11:20	0° M		behind sun end	11239 Aug 25 21:14	13° P 40'26	
evening max el	11238 Oct 09 17:43	20° M 23'53	22°39'56	evening rise	11239 Sep 02 03:45	28° P 56'34	
desc. node	11238 Oct 10 13:13	21° M 10'02			11239 Sep 02 15:55	0° Q	
retrograde	11238 Oct 22 19:43	26° M 54'23			11239 Sep 20 18:22	0° M	
evening set	11238 Oct 26 11:48	26° M 24'55		evening max el	11239 Sep 21 11:46	0° M 44'18	21°05'43
min. Earth dist.	11238 Nov 03 01:46	23° M 00'12	0.54949 AU	desc. node	11239 Sep 27 10:32	5° M 09'53	
inferior conj	11238 Nov 04 03:51	22° M 23'05	-5°43'47	retrograde	11239 Oct 03 07:10	6° M 35'56	
minimum elong	11238 Nov 04 00:10	22° M 28'19	5°43'01	evening set	11239 Oct 05 17:40	6° M 21'59	
morning rise	11238 Nov 12 14:07	18° M 34'58		inferior conj	11239 Oct 14 19:52	2° M 27'07	-4°49'59
direct	11238 Nov 15 18:33	18° M 11'43		minimum elong	11239 Oct 14 10:13	2° M 40'43	4°47'22
morning max el	11238 Nov 27 06:54	23° M 38'50	21°06'15	min. Earth dist.	11239 Oct 15 09:00	2° M 08'35	0.54592 AU
	11238 Dec 02 18:54	0° A			11239 Oct 19 09:54	30° R Q	
asc. node	11238 Dec 04 00:52	1° A 45'24		morning rise	11239 Oct 23 03:11	28° Q 34'36	
morning set	11238 Dec 16 23:59	25° A 24'42		direct	11239 Oct 27 02:48	28° Q 00'29	
	11238 Dec 19 04:39	0° Z			11239 Nov 03 09:03	0° M	
				morning max el	11239 Nov 08 23:44	4° M 11'01	22°47'19

asc. node	11239 Nov 20 21:48	19°♄51'42			11240 Nov 01 17:50	0°♄	
	11239 Nov 26 11:27	0°♊		asc. node	11240 Nov 06 18:41	8°♄37'30	
morning set	11239 Dec 01 11:05	10°♊12'14		morning set	11240 Nov 14 22:56	24°♄59'04	
					11240 Nov 17 06:36	0°♊	
superior conj	11239 Dec 08 10:45	25°♊12'10	1°37'18	superior conj	11240 Nov 21 18:49	9°♊53'30	1°39'17
minimum elong	11239 Dec 08 11:41	25°♊17'10	1°37'57	minimum elong	11240 Nov 21 18:36	9°♊52'16	1°39'54
	11239 Dec 10 17:05	0°♊		max. Earth dist.	11240 Nov 23 19:05	14°♊16'18	1.32484 AU
max. Earth dist.	11239 Dec 11 18:19	2°♊11'47	1.33749 AU	evening rise	11240 Nov 29 03:11	25°♊31'02	
evening rise	11239 Dec 16 09:27	11°♊33'36			11240 Dec 01 08:48	0°♊	
desc. node	11239 Dec 24 08:37	26°♊19'16		desc. node	11240 Dec 10 05:38	16°♊17'44	
	11239 Dec 26 12:04	0°♋			11240 Dec 18 23:00	0°♋	
	11240 Jan 16 20:13	0°♋		evening max el	11241 Jan 01 12:51	16°♋28'20	27°31'11
evening max el	11240 Jan 20 01:02	3°♋17'04	27°11'40	retrograde	11241 Jan 15 06:43	23°♋49'31	
retrograde	11240 Feb 02 11:48	10°♋40'36		evening set	11241 Jan 22 05:49	21°♋22'26	
evening set	11240 Feb 09 04:47	8°♋07'40		min. Earth dist.	11241 Jan 26 00:03	18°♋10'53	0.63318 AU
min. Earth dist.	11240 Feb 13 02:43	4°♋25'56	0.65118 AU	inferior conj	11241 Jan 28 17:42	15°♋27'08	-1°38'53
inferior conj	11240 Feb 15 09:26	1°♋54'09	-0°28'53	minimum elong	11241 Jan 28 20:56	15°♋19'05	1°37'03
minimum elong	11240 Feb 15 10:16	1°♋51'48	0°28'10	asc. node	11241 Feb 02 17:47	11°♋08'25	
asc. node	11240 Feb 16 20:32	0°♋18'27		morning rise	11241 Feb 04 14:15	10°♋12'16	
	11240 Feb 17 03:35	30°♋		direct	11241 Feb 06 22:55	9°♋45'28	
morning rise	11240 Feb 21 17:18	26°♋23'35		morning max el	11241 Feb 13 11:56	13°♋07'05	17°47'01
direct	11240 Feb 24 09:17	25°♋45'53			11241 Feb 25 03:40	0°♋	
morning max el	11240 Mar 01 18:18	29°♋06'13	17°58'53	morning set	11241 Mar 01 19:09	7°♋59'33	
	11240 Mar 02 15:12	0°♋		desc. node	11241 Mar 08 06:05	19°♋03'51	
morning set	11240 Mar 19 14:49	25°♋36'23					
desc. node	11240 Mar 21 09:25	28°♋31'36		superior conj	11241 Mar 14 03:52	28°♋55'23	-0°43'39
	11240 Mar 22 06:57	0°♌		minimum elong	11241 Mar 13 23:19	28°♋36'40	0°42'54
					11241 Mar 14 19:37	0°♌	
superior conj	11240 Apr 02 21:35	18°♌43'37	-1°24'55	max. Earth dist.	11241 Mar 20 06:16	8°♌47'38	1.44521 AU
minimum elong	11240 Apr 02 12:47	18°♌08'44	1°24'04	evening rise	11241 Mar 29 11:00	23°♌10'41	
max. Earth dist.	11240 Apr 06 11:42	24°♌23'08	1.45468 AU		11241 Apr 02 22:23	0°♌	
	11240 Apr 10 01:51	0°♌			11241 Apr 24 02:26	0°♌	
evening rise	11240 Apr 18 23:38	13°♌47'10		evening max el	11241 Apr 27 14:27	3°♌54'27	20°45'03
	11240 Apr 29 14:41	0°♌		asc. node	11241 May 01 15:22	7°♌17'38	
greatest brilliancy	11240 May 02 21:25	4°♌53'10	-0.6m	retrograde	11241 May 05 20:58	8°♌43'35	
evening max el	11240 May 14 13:44	20°♌10'13	19°41'39	evening set	11241 May 10 00:20	7°♌06'15	
asc. node	11240 May 14 18:10	20°♌21'18		inferior conj	11241 May 15 06:56	0°♌57'07	3°10'07
retrograde	11240 May 21 22:10	24°♌20'55		minimum elong	11241 May 15 05:53	1°♌00'41	3°09'27
evening set	11240 May 25 15:51	22°♌59'35			11241 May 15 23:29	30°♌	
inferior conj	11240 May 31 00:20	17°♌03'03	3°16'32	min. Earth dist.	11241 May 15 20:09	0°♌11'28	0.68263 AU
minimum elong	11240 May 31 00:17	17°♌03'10	3°15'53	morning rise	11241 May 20 11:14	24°♌39'38	
min. Earth dist.	11240 Jun 01 03:29	15°♌32'32	0.67387 AU	direct	11241 May 25 21:03	22°♌16'16	
morning rise	11240 Jun 05 08:23	10°♌42'18		desc. node	11241 Jun 04 07:02	27°♌20'36	
direct	11240 Jun 11 06:42	8°♌05'03		morning max el	11241 Jun 05 18:24	28°♌46'36	23°50'31
desc. node	11240 Jun 17 10:03	10°♌16'13			11241 Jun 06 22:40	0°♌	
morning max el	11240 Jun 23 08:37	15°♌19'30	25°18'25		11241 Jun 29 03:31	0°♌	
	11240 Jul 05 09:49	0°♍		morning set	11241 Jul 11 01:35	19°♍18'04	
	11240 Jul 24 19:59	0°♍		max. Earth dist.	11241 Jul 14 21:12	25°♍55'50	1.38624 AU
morning set	11240 Jul 29 08:50	7°♍57'34			11241 Jul 17 03:53	0°♍	
max. Earth dist.	11240 Aug 01 23:43	14°♍35'51	1.36378 AU				
				superior conj	11241 Jul 22 07:07	9°♍29'10	-0°57'23
superior conj	11240 Aug 08 06:13	26°♍41'41	-0°23'45	minimum elong	11241 Jul 22 11:03	9°♍47'43	0°57'17
minimum elong	11240 Aug 08 07:43	26°♍49'09	0°23'52	asc. node	11241 Jul 28 14:34	21°♍39'31	
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asc. node	11240 Aug 10 17:46	1°♎39'59			11241 Aug 01 20:52	0°♎	
evening rise	11240 Aug 16 09:23	13°♎10'03		evening max el	11241 Aug 16 15:25	23°♎32'44	18°53'27
	11240 Aug 25 05:12	0°♎		retrograde	11241 Aug 25 05:07	27°♎49'44	
evening max el	11240 Sep 02 19:02	11°♎45'20	19°49'01	evening set	11241 Aug 27 02:37	27°♎37'57	
retrograde	11240 Sep 12 22:33	16°♎48'10		desc. node	11241 Aug 31 05:14	26°♎01'13	
desc. node	11240 Sep 13 07:53	16°♎47'45		inferior conj	11241 Sep 04 08:19	23°♎19'35	-1°17'27
evening set	11240 Sep 14 19:50	16°♎38'28		minimum elong	11241 Sep 04 05:02	23°♎25'26	1°16'18
inferior conj	11240 Sep 23 17:25	12°♎36'45	-3°10'33	min. Earth dist.	11241 Sep 07 08:39	21°♎11'33	0.56611 AU
minimum elong	11240 Sep 23 09:06	12°♎49'32	3°07'32	morning rise	11241 Sep 12 04:11	18°♎25'13	
min. Earth dist.	11240 Sep 25 18:29	11°♎21'24	0.55179 AU	direct	11241 Sep 17 18:07	17°♎10'49	
morning rise	11240 Oct 01 20:45	8°♎19'32		morning max el	11241 Oct 01 24:00	24°♎31'55	26°12'10
direct	11240 Oct 06 15:55	7°♎29'01			11241 Oct 07 00:52	0°♎	
morning max el	11240 Oct 20 10:47	14°♎18'16	24°35'06				

asc. node	11241 Oct 24 15:31	27° Ω 51'53		direct	11242 Aug 30 11:01	27° Ω 34'10	
	11241 Oct 25 17:36	0° \mathbb{M}			11242 Sep 07 04:16	0° \mathbb{M}	
morning set	11241 Oct 30 09:47	9° \mathbb{M} 39'23		morning max el	11242 Sep 13 19:45	5° \mathbb{M} 18'15	27°21'58
					11242 Oct 02 02:15	0° Ω	
superior conj	11241 Nov 06 05:42	24° \mathbb{M} 39'40	1°35'15	asc. node	11242 Oct 11 12:19	17° Ω 27'22	
minimum elong	11241 Nov 06 04:28	24° \mathbb{M} 32'51	1°35'40	morning set	11242 Oct 14 17:57	24° Ω 08'45	
max. Earth dist.	11241 Nov 07 01:33	26° \mathbb{M} 29'50	1.31687 AU		11242 Oct 17 11:17	0° \mathbb{M}	
	11241 Nov 08 15:37	0° \mathbb{A}					
evening rise	11241 Nov 13 04:40	9° \mathbb{A} 47'09		superior conj	11242 Oct 21 17:28	9° \mathbb{M} 25'02	1°25'30
	11241 Nov 23 16:07	0° \mathbb{B}		minimum elong	11242 Oct 21 15:32	9° \mathbb{M} 14'14	1°25'39
desc. node	11241 Nov 27 02:44	5° \mathbb{B} 49'12		max. Earth dist.	11242 Oct 21 10:33	8° \mathbb{M} 46'32	1.31384 AU
evening max el	11241 Dec 14 20:36	29° \mathbb{B} 02'05	27°19'13	evening rise	11242 Oct 28 11:30	24° \mathbb{M} 15'52	
	11241 Dec 15 21:47	0° \approx			11242 Oct 31 05:09	0° \mathbb{A}	
retrograde	11241 Dec 28 18:07	6° \approx 17'11		desc. node	11242 Nov 13 23:54	24° \mathbb{A} 42'55	
evening set	11242 Jan 04 17:24	4° \approx 04'42			11242 Nov 17 15:35	0° \mathbb{B}	
min. Earth dist.	11242 Jan 08 11:04	1° \approx 16'45	0.61272 AU	evening max el	11242 Nov 26 21:50	10° \mathbb{B} 47'51	26°32'58
	11242 Jan 09 22:18	30° \mathbb{R} \mathbb{B}		retrograde	11242 Dec 10 20:28	17° \mathbb{B} 54'57	
inferior conj	11242 Jan 11 12:59	28° \mathbb{B} 33'50	-2°55'07	evening set	11242 Dec 17 11:25	16° \mathbb{B} 06'41	
minimum elong	11242 Jan 11 18:58	28° \mathbb{B} 20'37	2°52'16	min. Earth dist.	11242 Dec 21 11:40	13° \mathbb{B} 30'40	0.59133 AU
morning rise	11242 Jan 18 23:15	23° \mathbb{B} 37'47		inferior conj	11242 Dec 24 15:42	11° \mathbb{B} 04'29	-4°11'30
asc. node	11242 Jan 20 15:00	23° \mathbb{B} 19'21		minimum elong	11242 Dec 24 23:44	10° \mathbb{B} 49'00	4°08'26
direct	11242 Jan 21 03:02	23° \mathbb{B} 18'17		morning rise	11243 Jan 01 14:48	6° \mathbb{B} 29'43	
morning max el	11242 Jan 28 04:08	26° \mathbb{B} 51'09	17°53'16	direct	11243 Jan 03 17:26	6° \mathbb{B} 13'59	
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morning set	11242 Feb 12 19:25	21° \approx 18'50		morning max el	11243 Jan 11 15:08	10° \mathbb{B} 07'42	18°19'00
	11242 Feb 17 14:43	0° \mathbb{H}			11243 Jan 24 14:43	0° \approx	
				morning set	11243 Jan 27 09:45	5° \approx 16'24	
superior conj	11242 Feb 23 11:02	10° \mathbb{H} 18'01	-0°02'39				
minimum elong	11242 Feb 23 10:50	10° \mathbb{H} 17'07	0°02'21	superior conj	11243 Feb 05 16:58	22° \approx 43'55	0°32'51
behind sun begin	11242 Feb 23 02:34	9° \mathbb{H} 41'22		minimum elong	11243 Feb 05 19:15	22° \approx 54'21	0°32'57
behind sun end	11242 Feb 23 19:06	10° \mathbb{H} 52'48		desc. node	11243 Feb 09 23:32	0° \mathbb{H} 23'08	
desc. node	11242 Feb 23 02:47	9° \mathbb{H} 42'20			11243 Feb 09 18:16	0° \mathbb{H}	
max. Earth dist.	11242 Mar 02 20:48	22° \mathbb{H} 45'35	1.42959 AU	max. Earth dist.	11243 Feb 13 06:27	6° \mathbb{H} 04'46	1.40964 AU
	11242 Mar 07 08:27	0° \mathbb{Y}		evening rise	11243 Feb 17 20:41	13° \mathbb{H} 45'24	
evening rise	11242 Mar 09 06:35	3° \mathbb{Y} 02'22			11243 Feb 28 04:55	0° \mathbb{Y}	
	11242 Mar 27 08:27	0° \mathbb{B}			11243 Mar 22 15:32	0° \mathbb{B}	
evening max el	11242 Apr 10 09:48	17° \mathbb{B} 39'48	21°59'16	evening max el	11243 Mar 24 01:21	1° \mathbb{B} 27'20	23°19'18
asc. node	11242 Apr 18 12:37	23° \mathbb{B} 04'17		retrograde	11243 Apr 03 14:17	7° \mathbb{B} 40'37	
retrograde	11242 Apr 19 18:54	23° \mathbb{B} 11'59		asc. node	11243 Apr 05 09:55	7° \mathbb{B} 24'58	
evening set	11242 Apr 24 08:48	21° \mathbb{B} 19'18		evening set	11243 Apr 08 15:37	5° \mathbb{B} 33'44	
inferior conj	11242 Apr 29 15:48	14° \mathbb{B} 59'52	2°52'58		11243 Apr 13 09:38	30° \mathbb{R} \mathbb{Y}	
minimum elong	11242 Apr 29 14:02	15° \mathbb{B} 06'02	2°52'13	min. Earth dist.	11243 Apr 13 12:54	29° \mathbb{Y} 48'47	0.68642 AU
min. Earth dist.	11242 Apr 29 16:02	14° \mathbb{B} 59'03	0.68676 AU	inferior conj	11243 Apr 14 00:58	29° \mathbb{Y} 07'08	2°25'56
morning rise	11242 May 04 19:07	8° \mathbb{B} 47'20		minimum elong	11243 Apr 13 22:50	29° \mathbb{Y} 14'32	2°25'08
direct	11242 May 09 15:39	6° \mathbb{B} 42'48		morning rise	11243 Apr 19 05:59	23° \mathbb{Y} 00'53	
morning max el	11242 May 19 05:58	12° \mathbb{B} 21'38	22°21'10	direct	11243 Apr 23 13:18	21° \mathbb{Y} 17'33	
desc. node	11242 May 22 03:56	15° \mathbb{B} 30'16		morning max el	11243 May 01 22:28	26° \mathbb{Y} 06'09	20°58'23
	11242 Jun 02 07:21	0° \mathbb{I}			11243 May 05 11:35	0° \mathbb{B}	
morning set	11242 Jun 21 17:28	29° \mathbb{I} 31'01		desc. node	11243 May 09 00:46	4° \mathbb{B} 26'51	
	11242 Jun 22 00:36	0° \mathbb{E}			11243 May 26 18:11	0° \mathbb{I}	
max. Earth dist.	11242 Jun 26 19:51	7° \mathbb{E} 56'54	1.40914 AU	morning set	11243 Jun 01 07:46	8° \mathbb{I} 35'23	
				max. Earth dist.	11243 Jun 09 00:23	20° \mathbb{I} 50'40	1.42973 AU
superior conj	11242 Jul 04 15:00	21° \mathbb{E} 29'04	-1°30'03		11243 Jun 14 13:28	0° \mathbb{E}	
minimum elong	11242 Jul 04 21:06	21° \mathbb{E} 56'21	1°29'55				
	11242 Jul 09 07:27	0° Ω		superior conj	11243 Jun 16 01:18	2° \mathbb{E} 31'02	-1°57'06
evening rise	11242 Jul 14 21:33	10° Ω 25'11		minimum elong	11243 Jun 16 07:39	2° \mathbb{E} 57'53	1°57'17
asc. node	11242 Jul 15 11:27	11° Ω 30'18		evening rise	11243 Jun 27 20:18	23° \mathbb{E} 07'03	
	11242 Jul 26 01:57	0° \mathbb{M}			11243 Jul 01 17:07	0° Ω	
evening max el	11242 Jul 30 21:40	6° \mathbb{M} 01'38	18°19'01	asc. node	11243 Jul 02 08:22	1° Ω 07'12	
retrograde	11242 Aug 07 06:39	9° \mathbb{M} 44'43		evening max el	11243 Jul 14 09:40	19° Ω 01'37	18°04'36
evening set	11242 Aug 09 10:33	9° \mathbb{M} 26'16		retrograde	11243 Jul 21 01:09	22° Ω 25'54	
inferior conj	11242 Aug 16 21:03	4° \mathbb{M} 47'41	0°22'25	evening set	11243 Jul 23 13:02	21° Ω 57'06	
minimum elong	11242 Aug 16 21:49	4° \mathbb{M} 46'04	0°21'47	inferior conj	11243 Jul 30 06:02	16° Ω 58'23	1°38'15
desc. node	11242 Aug 18 02:33	3° \mathbb{M} 45'50		minimum elong	11243 Jul 30 08:34	16° Ω 52'16	1°36'57
min. Earth dist.	11242 Aug 20 05:25	2° \mathbb{M} 01'29	0.58628 AU	min. Earth dist.	11243 Aug 02 10:14	13° Ω 56'08	0.60894 AU
	11242 Aug 23 00:56	30° \mathbb{R} Ω		desc. node	11243 Aug 04 23:50	11° Ω 46'58	
morning rise	11242 Aug 24 05:35	29° Ω 17'41		morning rise	11243 Aug 06 01:22	11° Ω 02'07	


































































































































direct	11243 Aug 12 16:04	8°Ω50'59		direct	11244 Jul 25 06:44	21°Ω00'07	
morning max el	11243 Aug 26 22:25	16°Ω48'42	27°55'07	morning max el	11244 Aug 08 06:19	29°Ω02'19	27°49'54
	11243 Sep 06 20:02	0°Π			11244 Aug 09 04:51	0°Ω	
	11243 Sep 24 17:47	0°Ω			11244 Aug 30 17:56	0°Π	
asc. node	11243 Sep 28 09:06	7°Ω17'52		morning set	11244 Sep 11 18:25	22°Π13'42	
morning set	11243 Sep 28 21:35	8°Ω22'22		asc. node	11244 Sep 14 05:50	27°Π17'32	
max. Earth dist.	11243 Oct 04 18:30	20°Ω57'50	1.31582 AU		11244 Sep 15 12:53	0°Ω	
				max. Earth dist.	11244 Sep 16 21:33	2°Ω53'11	1.32290 AU
superior conj	11243 Oct 06 04:17	24°Ω04'18	1°10'18	superior conj	11244 Sep 19 12:12	8°Ω30'56	0°49'52
minimum elong	11243 Oct 06 02:03	23°Ω51'54	1°10'10	minimum elong	11244 Sep 19 10:10	8°Ω19'52	0°49'32
	11243 Oct 08 20:28	0°Π		evening rise	11244 Sep 26 08:58	23°Ω28'19	
evening rise	11243 Oct 12 21:35	8°Π51'43			11244 Sep 29 11:24	0°Π	
	11243 Oct 23 15:50	0°♄		desc. node	11244 Oct 17 18:23	29°Π33'17	
desc. node	11243 Oct 31 21:07	12°♄44'31			11244 Oct 18 04:08	0°♄	
evening max el	11243 Nov 08 15:00	21°♄42'46	25°15'30	evening max el	11244 Oct 20 01:57	1°♄57'25	23°38'06
retrograde	11243 Nov 22 11:36	28°♄40'30		retrograde	11244 Nov 02 13:51	8°♄41'22	
evening set	11243 Nov 28 07:16	27°♄23'41		evening set	11244 Nov 07 02:46	7°♄56'32	
min. Earth dist.	11243 Dec 03 03:06	24°♄43'23	0.57135 AU	min. Earth dist.	11244 Nov 13 12:05	4°♄53'18	0.55556 AU
inferior conj	11243 Dec 05 22:48	22°♄50'22	-5°15'40	inferior conj	11244 Nov 15 09:29	3°♄46'06	-5°48'03
minimum elong	11243 Dec 06 05:59	22°♄38'20	5°13'43	minimum elong	11244 Nov 15 10:46	3°♄44'12	5°47'26
morning rise	11243 Dec 14 06:58	18°♄37'45			11244 Nov 23 08:16	30°℞Π	
direct	11243 Dec 16 14:19	18°♄22'07		morning rise	11244 Nov 23 20:36	29°Π52'27	
asc. node	11243 Dec 25 09:17	22°♄27'30		direct	11244 Nov 26 15:48	29°Π33'05	
morning max el	11243 Dec 25 17:02	22°♄45'51	19°06'05		11244 Nov 29 20:36	0°♄	
	11243 Dec 31 12:36	0°♄		morning max el	11244 Dec 07 06:13	4°♄34'49	20°16'04
morning set	11244 Jan 11 09:40	19°♄39'23		asc. node	11244 Dec 11 06:19	9°♄04'18	
	11244 Jan 16 14:58	0°♄			11244 Dec 23 13:05	0°♄	
superior conj	11244 Jan 19 16:59	6°♄00'04	1°00'44	morning set	11244 Dec 25 15:48	4°♄17'05	
minimum elong	11244 Jan 19 20:00	6°♄14'32	1°00'54	superior conj	11245 Jan 02 06:24	19°♄52'41	1°20'44
max. Earth dist.	11244 Jan 26 13:04	18°♄43'29	1.38763 AU	minimum elong	11245 Jan 02 08:59	20°♄05'45	1°21'07
desc. node	11244 Jan 27 20:19	21°♄02'51			11245 Jan 07 09:53	0°♄	
evening rise	11244 Jan 30 08:16	25°♄24'48		max. Earth dist.	11245 Jan 07 20:19	0°♄49'46	1.36593 AU
	11244 Feb 02 01:02	0°♄		evening rise	11245 Jan 11 15:26	7°♄53'50	
	11244 Feb 21 20:41	0°♄		desc. node	11245 Jan 13 17:09	11°♄37'01	
evening max el	11244 Mar 05 15:11	15°♄17'59	24°38'48		11245 Jan 24 19:30	0°♄	
retrograde	11244 Mar 17 05:55	22°♄04'40		evening max el	11245 Feb 16 04:36	29°♄07'57	25°50'52
asc. node	11244 Mar 22 07:12	20°♄09'57			11245 Feb 17 02:22	0°♄	
evening set	11244 Mar 22 19:15	19°♄45'26		retrograde	11245 Feb 28 16:49	6°♄17'51	
min. Earth dist.	11244 Mar 27 08:26	14°♄35'56	0.68177 AU	evening set	11245 Mar 06 18:04	3°♄49'13	
inferior conj	11244 Mar 28 08:34	13°♄15'35	1°49'24	asc. node	11245 Mar 09 04:29	1°♄25'31	
minimum elong	11244 Mar 28 06:29	13°♄22'32	1°48'37		11245 Mar 10 09:45	30°℞♄	
morning rise	11244 Apr 02 17:52	7°♄17'05		min. Earth dist.	11245 Mar 11 00:27	29°♄14'50	0.67290 AU
direct	11244 Apr 06 12:39	5°♄55'05		inferior conj	11245 Mar 12 12:36	27°♄20'58	1°03'17
morning max el	11244 Apr 13 22:25	10°♄02'39	19°47'48	minimum elong	11245 Mar 12 11:08	27°♄25'38	1°02'48
desc. node	11244 Apr 24 21:34	23°♄57'51		morning rise	11245 Mar 18 04:46	21°♄31'50	
greatest brilliancy	11244 Apr 26 21:28	26°♄51'21	-0.6m	direct	11245 Mar 21 12:01	20°♄29'33	
	11244 Apr 29 00:44	0°♄		morning max el	11245 Mar 28 06:03	24°♄09'03	18°52'31
morning set	11244 May 10 07:32	17°♄05'10			11245 Apr 02 05:36	0°♄	
	11244 May 18 14:55	0°♄		greatest brilliancy	11245 Apr 11 07:40	13°♄13'16	-0.8m
max. Earth dist.	11244 May 21 12:18	4°♄34'00	1.44556 AU	desc. node	11245 Apr 11 18:18	13°♄53'56	
superior conj	11244 May 26 11:26	12°♄30'52	-2°12'06	morning set	11245 Apr 19 15:18	26°♄05'22	
minimum elong	11244 May 26 13:49	12°♄40'31	2°12'40		11245 Apr 22 03:37	0°♄	
	11244 Jun 06 01:34	0°♄		max. Earth dist.	11245 May 04 05:41	18°♄51'14	1.45485 AU
evening rise	11244 Jun 08 23:49	4°♄56'55		superior conj	11245 May 06 01:04	21°♄41'24	-2°08'45
asc. node	11244 Jun 18 05:20	20°♄24'38		minimum elong	11245 May 05 20:01	21°♄21'34	2°09'04
	11244 Jun 24 20:12	0°Ω			11245 May 11 07:28	0°♄	
evening max el	11244 Jun 26 23:37	2°Ω22'33	18°09'03	evening rise	11245 May 21 04:04	15°♄47'40	
retrograde	11244 Jul 03 08:21	5°Ω43'02			11245 May 29 23:41	0°♄	
evening set	11244 Jul 06 04:16	5°Ω01'13		asc. node	11245 Jun 05 02:22	9°♄15'59	
inferior conj	11244 Jul 12 07:23	29°♄44'00	2°29'49	evening max el	11245 Jun 10 12:25	15°♄56'45	18°31'36
minimum elong	11244 Jul 12 09:58	29°♄36'58	2°28'35	retrograde	11245 Jun 16 23:58	19°♄27'17	
	11244 Jul 12 01:31	30°℞♄		evening set	11245 Jun 20 03:55	18°♄30'50	
min. Earth dist.	11244 Jul 15 00:13	26°♄48'11	0.63115 AU	inferior conj	11245 Jun 25 21:05	12°♄57'03	3°00'41
morning rise	11244 Jul 18 13:56	23°♄31'38		minimum elong	11245 Jun 25 22:50	12°♄51'48	2°59'45
desc. node	11244 Jul 21 21:05	21°♄38'29					

min. Earth dist.	11245 Jun 27 23:33	10°☿25'39	0.65080 AU			11246 Jun 06 22:37	30°♁II	
morning rise	11245 Jul 01 16:46	6°☿36'56		inferior conj		11246 Jun 09 19:34	26°♁29'57	3°14'46
direct	11245 Jul 08 05:37	3°☿55'02		minimum elong		11246 Jun 09 20:10	26°♁27'59	3°14'04
desc. node	11245 Jul 08 18:16	3°☿56'00		min. Earth dist.		11246 Jun 11 07:08	24°♁34'57	0.66667 AU
morning max el	11245 Jul 21 16:59	11°☿50'51	27°10'28	morning rise		11246 Jun 15 07:01	20°♁08'05	
	11245 Aug 05 04:09	0°♁		direct		11246 Jun 21 11:30	17°♁26'15	
	11245 Aug 23 07:03	0°♁		desc. node		11246 Jun 25 15:23	18°♁26'49	
morning set	11245 Aug 26 05:48	5°♁36'15		morning max el		11246 Jul 04 03:47	25°♁01'03	26°04'31
max. Earth dist.	11245 Aug 30 16:09	14°♁25'26	1.33507 AU			11246 Jul 08 16:10	0°☿	
asc. node	11245 Sep 01 02:33	17°♁22'20				11246 Jul 29 15:31	0°♁	
				morning set		11246 Aug 09 04:13	18°♁20'32	
superior conj	11245 Sep 03 15:08	22°♁39'29	0°24'31	max. Earth dist.		11246 Aug 13 00:07	25°♁35'05	1.35209 AU
minimum elong	11245 Sep 03 13:55	22°♁33'06	0°24'08			11246 Aug 15 06:18	0°♁	
	11245 Sep 07 01:45	0°♁						
evening rise	11245 Sep 10 19:45	8°♁00'32		superior conj		11246 Aug 18 10:32	6°♁22'47	-0°05'10
	11245 Sep 22 08:27	0°♁		minimum elong		11246 Aug 18 10:51	6°♁24'25	0°05'26
evening max el	11245 Oct 01 14:29	12°♁04'14	21°58'05	behind sun begin		11246 Aug 18 05:08	5°♁55'17	
desc. node	11245 Oct 04 15:40	14°♁43'18		behind sun end		11246 Aug 18 16:35	6°♁53'36	
retrograde	11245 Oct 14 05:10	18°♁20'43		asc. node		11246 Aug 18 23:18	7°♁27'53	
evening set	11245 Oct 17 07:13	17°♁59'24		evening rise		11246 Aug 26 03:55	22°♁22'11	
inferior conj	11245 Oct 26 04:58	14°♁01'38	-5°27'59			11246 Aug 29 22:10	0°♁	
minimum elong	11245 Oct 25 22:00	14°♁11'25	5°26'31	evening max el		11246 Sep 13 13:42	22°♁39'24	20°30'32
min. Earth dist.	11245 Oct 25 18:55	14°♁15'44	0.54686 AU	desc. node		11246 Sep 21 13:00	27°♁44'54	
morning rise	11245 Nov 03 14:09	10°♁14'31		retrograde		11246 Sep 24 16:59	28°♁11'08	
direct	11245 Nov 07 02:26	9°♁47'23		evening set		11246 Sep 26 19:28	28°♁00'10	
morning max el	11245 Nov 19 05:44	15°♁32'36	21°47'36	inferior conj		11246 Oct 05 21:33	24°♁03'56	-4°11'38
asc. node	11245 Nov 28 03:17	26°♁41'57		minimum elong		11246 Oct 05 11:39	24°♁18'18	4°08'29
	11245 Nov 30 04:14	0°♁		min. Earth dist.		11246 Oct 07 03:07	23°♁21'00	0.54726 AU
morning set	11245 Dec 10 01:39	19°♁02'31		morning rise		11246 Oct 14 03:22	20°♁02'45	
	11245 Dec 15 05:45	0°♁		direct		11246 Oct 18 11:03	19°♁22'36	
				morning max el		11246 Oct 31 19:16	25°♁51'05	23°33'21
superior conj	11245 Dec 17 05:22	4°♁11'02	1°33'15			11246 Nov 04 17:16	0°♁	
minimum elong	11245 Dec 17 06:58	4°♁19'28	1°33'50	asc. node		11246 Nov 15 00:12	15°♁06'10	
max. Earth dist.	11245 Dec 21 08:32	12°♁41'39	1.34674 AU			11246 Nov 22 17:36	0°♁	
evening rise	11245 Dec 25 14:47	21°♁04'05		morning set		11246 Nov 24 13:17	3°♁50'08	
	11245 Dec 30 10:38	0°♁						
desc. node	11245 Dec 31 14:01	2°♁01'28		superior conj		11246 Dec 01 10:52	18°♁46'19	1°38'55
	11246 Jan 18 16:53	0°♁		minimum elong		11246 Dec 01 11:18	18°♁48'40	1°39'34
evening max el	11246 Jan 29 18:01	12°♁50'34	26°48'12	max. Earth dist.		11246 Dec 04 04:34	24°♁38'05	1.33148 AU
retrograde	11246 Feb 11 22:17	20°♁12'45				11246 Dec 06 18:11	0°♁	
evening set	11246 Feb 18 10:15	17°♁39'21		evening rise		11246 Dec 09 02:46	4°♁46'56	
min. Earth dist.	11246 Feb 22 10:50	13°♁39'05	0.66008 AU	desc. node		11246 Dec 18 10:58	22°♁11'14	
inferior conj	11246 Feb 24 10:58	11°♁18'26	0°07'29			11246 Dec 23 03:37	0°♁	
minimum elong	11246 Feb 24 10:45	11°♁19'04	0°07'40	evening max el		11247 Jan 12 06:55	26°♁17'02	27°23'35
transit middle	11246 Feb 24 10:45	11°♁19'04	0°07'40			11247 Jan 16 16:04	0°♁	
transit begin	11246 Feb 24 08:10	11°♁26'39		retrograde		11247 Jan 25 21:37	3°♁41'17	
transit end	11246 Feb 24 13:21	11°♁11'29		evening set		11247 Feb 01 17:38	1°♁09'44	
asc. node	11246 Feb 24 01:47	11°♁45'25				11247 Feb 03 04:04	30°♁	
morning rise	11246 Mar 02 12:29	5°♁40'38		min. Earth dist.		11247 Feb 05 13:38	27°♁41'22	0.64377 AU
direct	11246 Mar 05 09:30	4°♁55'06		inferior conj		11247 Feb 08 01:15	25°♁02'49	-0°57'38
morning max el	11246 Mar 11 19:42	8°♁19'16	18°13'39	minimum elong		11247 Feb 08 03:02	24°♁58'05	0°56'27
	11246 Mar 27 01:16	0°♁		asc. node		11247 Feb 10 23:04	22°♁07'38	
desc. node	11246 Mar 29 15:00	4°♁07'55		morning rise		11247 Feb 14 14:20	19°♁38'41	
morning set	11246 Mar 31 00:32	6°♁22'47		direct		11247 Feb 17 02:49	19°♁06'13	
	11246 Apr 14 21:26	0°♁		morning max el		11247 Feb 23 12:47	22°♁26'13	17°51'44
						11247 Mar 01 12:10	0°♁	
superior conj	11246 Apr 15 07:45	0°♁40'26	-1°45'24	morning set		11247 Mar 12 14:34	18°♁04'50	
minimum elong	11246 Apr 14 22:21	0°♁03'34	1°44'51	desc. node		11247 Mar 16 11:40	24°♁34'48	
max. Earth dist.	11246 Apr 17 01:12	3°♁22'35	1.45680 AU			11247 Mar 19 18:08	0°♁	
evening rise	11246 May 01 08:58	25°♁42'28						
	11246 May 04 03:05	0°♁		superior conj		11247 Mar 26 01:45	10°♁16'30	-1°07'54
greatest brilliancy	11246 May 12 18:43	13°♁21'30	-0.7m	minimum elong		11247 Mar 25 18:29	9°♁47'18	1°07'00
asc. node	11246 May 22 23:27	27°♁31'57		max. Earth dist.		11247 Mar 30 20:29	17°♁52'58	1.45140 AU
evening max el	11246 May 24 21:36	29°♁37'25	19°11'28			11247 Apr 07 14:55	0°♁	
	11246 May 25 06:46	0°♁		evening rise		11247 Apr 10 22:33	5°♁06'16	
retrograde	11246 May 31 20:24	3°♁30'37		greatest brilliancy		11247 Apr 25 23:58	27°♁43'48	-0.6m
evening set	11246 Jun 04 08:48	2°♁18'37				11247 Apr 27 13:47	0°♁	

evening max el	11247 May 08 01:40	13° Π 21'17	20°07'04			11248 Apr 23 06:39	0° Π	
asc. node	11247 May 09 20:38	15° Π 01'27		asc. node		11248 Apr 25 17:53	1° Π 29'59	
retrograde	11247 May 15 18:56	17° Π 47'35		retrograde		11248 Apr 28 17:28	2° Π 12'50	
evening set	11247 May 19 16:32	16° Π 19'39		evening set		11248 May 03 01:13	0° Π 28'57	
inferior conj	11247 May 24 23:55	10° Π 17'40	3°15'11			11248 May 03 14:41	30° \Re 8	
minimum elong	11247 May 24 23:26	10° Π 19'19	3°14'33	inferior conj		11248 May 08 07:45	24° \Re 15'24	3°04'04
min. Earth dist.	11247 May 25 21:08	9° Π 05'42	0.67816 AU	minimum elong		11248 May 08 06:22	24° \Re 20'12	3°03'23
morning rise	11247 May 30 06:02	3° Π 57'51		min. Earth dist.		11248 May 08 15:25	23° \Re 48'46	0.68497 AU
direct	11247 Jun 04 23:15	1° Π 25'26		morning rise		11248 May 13 11:18	17° \Re 59'57	
desc. node	11247 Jun 12 12:27	4° Π 43'05		direct		11248 May 18 15:39	15° \Re 43'54	
morning max el	11247 Jun 16 13:36	8° Π 23'01	24°41'43	morning max el		11248 May 28 23:35	21° \Re 52'18	23°12'10
	11247 Jul 03 12:35	0° \Im		desc. node		11248 May 29 09:24	22° \Re 17'18	
morning set	11247 Jul 22 09:17	0° Ω 15'23				11248 Jun 05 00:37	0° Π	
	11247 Jul 22 05:46	0° Ω				11248 Jun 25 19:24	0° \Im	
max. Earth dist.	11247 Jul 25 23:24	6° Ω 40'58	1.37312 AU	morning set		11248 Jul 02 15:57	11° \Im 08'08	
				max. Earth dist.		11248 Jul 06 20:35	18° \Im 15'41	1.39611 AU
						11248 Jul 13 10:55	0° Ω	
superior conj	11247 Aug 01 19:20	19° Ω 33'37	-0°37'54					
minimum elong	11247 Aug 01 21:50	19° Ω 45'45	0°37'56					
asc. node	11247 Aug 05 20:04	27° Ω 30'40		superior conj		11248 Jul 14 13:39	2° Ω 02'43	-1°11'34
	11247 Aug 07 01:55	0° \P		minimum elong		11248 Jul 14 18:35	2° Ω 25'34	1°11'25
evening rise	11247 Aug 10 07:08	6° \P 27'18		asc. node		11248 Jul 22 16:55	17° Ω 27'12	
	11247 Aug 23 16:13	0° $\underline{\Omega}$		evening rise		11248 Jul 24 02:26	20° Ω 08'29	
evening max el	11247 Aug 27 02:58	4° $\underline{\Omega}$ 00'54	19°22'44			11248 Jul 29 07:40	0° \P	
retrograde	11247 Sep 05 13:30	8° $\underline{\Omega}$ 42'37		evening max el		11248 Aug 09 04:11	16° \P 07'53	18°36'18
evening set	11247 Sep 07 09:41	8° $\underline{\Omega}$ 32'40		retrograde		11248 Aug 17 04:04	20° \P 08'22	
desc. node	11247 Sep 08 10:22	8° $\underline{\Omega}$ 18'53		evening set		11248 Aug 19 04:05	19° \P 54'08	
inferior conj	11247 Sep 16 01:28	4° $\underline{\Omega}$ 25'09	-2°22'17	desc. node		11248 Aug 25 07:44	16° \P 44'59	
minimum elong	11247 Sep 15 19:11	4° $\underline{\Omega}$ 35'23	2°19'54	inferior conj		11248 Aug 27 01:37	15° \P 27'10	-0°32'32
min. Earth dist.	11247 Sep 18 14:34	2° $\underline{\Omega}$ 46'00	0.55702 AU	minimum elong		11248 Aug 27 00:20	15° \P 29'38	0°32'15
	11247 Sep 23 18:39	30° \Re \P		min. Earth dist.		11248 Aug 30 07:06	13° \P 00'50	0.57422 AU
morning rise	11247 Sep 24 02:08	29° \P 52'42		morning rise		11248 Sep 03 17:08	10° \P 17'17	
direct	11247 Sep 29 05:47	28° \P 52'32		direct		11248 Sep 09 14:27	8° \P 50'49	
	11247 Oct 04 15:59	0° $\underline{\Omega}$		morning max el		11248 Sep 23 21:53	16° \P 21'49	26°45'53
morning max el	11247 Oct 13 06:18	5° $\underline{\Omega}$ 56'47	25°18'42			11248 Oct 05 01:45	0° $\underline{\Omega}$	
	11247 Oct 30 15:41	0° \P		asc. node		11248 Oct 18 17:52	23° $\underline{\Omega}$ 29'35	
asc. node	11247 Nov 01 21:03	4° \P 05'04				11248 Oct 21 22:38	0° \P	
morning set	11247 Nov 09 00:54	18° \P 34'26		morning set		11248 Oct 23 10:52	3° \P 11'05	
	11247 Nov 14 06:17	0° \Re						
				superior conj		11248 Oct 30 07:53	18° \P 17'14	1°31'47
superior conj	11247 Nov 15 20:22	3° \Re 30'23	1°38'17	minimum elong		11248 Oct 30 06:19	18° \P 08'29	1°32'06
minimum elong	11247 Nov 15 19:42	3° \Re 26'39	1°38'50	max. Earth dist.		11248 Oct 30 16:14	19° \P 03'41	1.31506 AU
max. Earth dist.	11247 Nov 17 08:01	6° \Re 46'23	1.32085 AU			11248 Nov 04 15:32	0° \Re	
evening rise	11247 Nov 23 00:09	18° \Re 53'20		evening rise		11248 Nov 06 04:15	3° \Re 16'14	
	11247 Nov 28 14:45	0° \Im				11248 Nov 20 10:09	0° \Im	
desc. node	11247 Dec 05 08:00	11° \Im 59'06		desc. node		11248 Nov 21 05:08	1° \Im 16'10	
	11247 Dec 17 11:54	0° \approx		evening max el		11248 Dec 06 23:00	21° \Im 29'30	27°03'41
evening max el	11247 Dec 25 17:29	9° \approx 14'21	27°30'22	retrograde		11248 Dec 20 20:58	28° \Im 40'16	
retrograde	11248 Jan 08 13:34	16° \approx 33'17		evening set		11248 Dec 27 17:59	26° \Im 37'15	
evening set	11248 Jan 15 13:22	14° \approx 11'36		min. Earth dist.		11248 Dec 31 13:28	23° \Im 56'01	0.60370 AU
min. Earth dist.	11248 Jan 19 06:57	11° \approx 10'48	0.62462 AU	inferior conj		11249 Jan 03 17:09	21° \Im 18'30	-3°28'02
inferior conj	11248 Jan 22 04:27	8° \approx 25'49	-2°10'46	minimum elong		11249 Jan 04 00:11	21° \Im 03'49	3°24'57
minimum elong	11248 Jan 22 08:50	8° \approx 15'23	2°08'26	morning rise		11249 Jan 11 09:06	16° \Im 30'57	
asc. node	11248 Jan 28 20:20	3° \approx 27'54		direct		11249 Jan 13 11:59	16° \Im 13'21	
morning rise	11248 Jan 29 06:46	3° \approx 18'17		asc. node		11249 Jan 14 17:32	16° \Im 19'30	
direct	11248 Jan 31 12:56	2° \approx 55'04		morning max el		11249 Jan 20 20:34	19° \Im 53'45	18°01'40
morning max el	11248 Feb 07 06:12	6° \approx 20'38	17°47'22			11249 Jan 28 07:46	0° \approx	
	11248 Feb 22 15:55	0° \Re		morning set		11249 Feb 05 11:03	14° \approx 31'26	
morning set	11248 Feb 23 04:12	0° \Re 54'09				11249 Feb 13 21:58	0° \Re	
desc. node	11248 Mar 02 08:20	15° \Re 09'44						
				superior conj		11249 Feb 15 11:44	2° \Re 47'54	0°13'17
superior conj	11248 Mar 05 18:26	20° \Re 57'32	-0°25'50	minimum elong		11249 Feb 15 12:50	2° \Re 52'45	0°13'28
minimum elong	11248 Mar 05 15:54	20° \Re 46'52	0°25'16	behind sun begin		11249 Feb 15 08:33	2° \Re 33'51	
	11248 Mar 11 05:58	0° Υ		behind sun end		11249 Feb 15 17:06	3° \Re 11'36	
max. Earth dist.	11248 Mar 12 13:25	2° Υ 07'06	1.43923 AU	desc. node		11249 Feb 17 05:03	5° \Re 49'14	
evening rise	11248 Mar 20 11:40	14° Υ 37'29		max. Earth dist.		11249 Feb 23 02:19	15° \Re 50'59	1.42158 AU
	11248 Mar 30 15:35	0° \Re		evening rise		11249 Feb 28 14:19	24° \Re 48'57	
evening max el	11248 Apr 20 00:06	27° \Re 06'02	21°15'39			11249 Mar 03 21:07	0° Υ	

	11249 Mar 24 13:37	0°♄		evening rise	11250 Feb 09 13:30	5°♄55'41	
evening max el	11249 Apr 02 17:39	10°♄51'50	22°32'59		11250 Feb 24 23:40	0°♄	
retrograde	11249 Apr 12 14:22	16°♄41'32		evening max el	11250 Mar 16 08:03	24°♄40'04	23°53'33
asc. node	11249 Apr 12 15:11	16°♄41'32			11250 Mar 23 03:20	0°♄	
evening set	11249 Apr 17 09:09	14°♄42'26		retrograde	11250 Mar 27 08:20	1°♄09'04	
inferior conj	11249 Apr 22 16:57	8°♄19'40	2°42'40	asc. node	11250 Mar 30 12:27	0°♄22'10	
minimum elong	11249 Apr 22 14:59	8°♄26'32	2°41'53		11250 Mar 31 04:16	30°♄	
min. Earth dist.	11249 Apr 22 11:51	8°♄37'27	0.68718 AU	evening set	11250 Apr 01 14:48	28°♄56'20	
morning rise	11249 Apr 27 20:41	2°♄09'55		min. Earth dist.	11250 Apr 06 08:20	23°♄26'40	0.68493 AU
direct	11249 May 02 11:35	0°♄14'19		inferior conj	11250 Apr 07 01:39	22°♄27'40	2°11'37
morning max el	11249 May 11 12:51	5°♄30'29	21°44'48	minimum elong	11250 Apr 06 23:28	22°♄35'05	2°10'47
desc. node	11249 May 16 06:17	10°♄48'13		morning rise	11250 Apr 12 08:11	16°♄24'43	
	11249 May 30 06:10	0°♄		direct	11250 Apr 16 09:59	14°♄50'47	
morning set	11249 Jun 12 20:30	20°♄49'53		morning max el	11250 Apr 24 08:30	19°♄20'39	20°26'43
	11249 Jun 18 12:06	0°♄		desc. node	11250 May 03 03:05	0°♄00'41	
max. Earth dist.	11249 Jun 18 21:58	0°♄40'49	1.41833 AU		11250 May 03 02:53	0°♄	
				morning set	11250 May 23 02:28	29°♄33'25	
superior conj	11249 Jun 26 12:50	13°♄38'37	-1°42'33		11250 May 23 09:20	0°♄	
minimum elong	11249 Jun 26 19:25	14°♄07'21	1°42'31	max. Earth dist.	11250 Jun 01 05:47	13°♄57'15	1.43708 AU
	11249 Jul 05 15:28	0°♄					
evening rise	11249 Jul 07 10:01	3°♄15'12		superior conj	11250 Jun 07 12:53	24°♄13'31	-2°05'21
asc. node	11249 Jul 09 13:48	7°♄12'30		minimum elong	11250 Jun 07 18:10	24°♄35'22	2°05'43
evening max el	11249 Jul 23 13:18	28°♄50'42	18°10'29		11250 Jun 10 23:45	0°♄	
	11249 Jul 24 19:50	0°♄		evening rise	11250 Jun 20 01:14	15°♄36'28	
retrograde	11249 Jul 30 13:30	2°♄24'12		asc. node	11250 Jun 26 10:45	26°♄41'58	
evening set	11249 Aug 01 20:44	2°♄01'43			11250 Jun 28 10:06	0°♄	
	11249 Aug 05 15:00	30°♄		evening max el	11250 Jul 07 02:29	12°♄00'12	18°04'13
inferior conj	11249 Aug 08 23:22	27°♄14'03	0°57'41	retrograde	11250 Jul 13 14:04	15°♄21'30	
minimum elong	11249 Aug 09 01:09	27°♄10'05	0°56'37	evening set	11250 Jul 16 05:14	14°♄47'34	
desc. node	11249 Aug 12 05:04	24°♄22'27		inferior conj	11250 Jul 22 15:51	9°♄40'46	2°02'54
min. Earth dist.	11249 Aug 12 06:58	24°♄18'25	0.59576 AU	minimum elong	11250 Jul 22 18:33	9°♄33'51	2°01'33
morning rise	11249 Aug 16 02:22	21°♄31'31		min. Earth dist.	11250 Jul 25 15:48	6°♄38'30	0.61851 AU
direct	11249 Aug 22 12:23	19°♄36'07		morning rise	11250 Jul 29 05:32	3°♄36'06	
morning max el	11249 Sep 05 20:49	27°♄26'37	27°40'54	desc. node	11250 Jul 30 02:20	3°♄01'52	
	11249 Sep 08 07:49	0°♄		direct	11250 Aug 04 21:48	1°♄15'09	
	11249 Sep 28 18:10	0°♄		morning max el	11250 Aug 19 02:15	9°♄16'49	27°57'29
asc. node	11249 Oct 05 14:38	13°♄11'58			11250 Sep 04 03:10	0°♄	
morning set	11249 Oct 07 17:21	17°♄34'24			11250 Sep 20 22:54	0°♄	
	11249 Oct 13 10:59	0°♄		morning set	11250 Sep 21 18:24	1°♄39'21	
max. Earth dist.	11249 Oct 14 01:27	1°♄20'13	1.31413 AU	asc. node	11250 Sep 22 11:23	3°♄06'47	
				max. Earth dist.	11250 Sep 27 07:44	13°♄25'27	1.31819 AU
superior conj	11249 Oct 14 19:28	3°♄00'20	1°19'42				
minimum elong	11249 Oct 14 17:20	2°♄48'32	1°19'44	superior conj	11250 Sep 29 05:17	17°♄34'41	1°02'16
evening rise	11249 Oct 21 12:43	17°♄48'25		minimum elong	11250 Sep 29 03:03	17°♄22'27	1°02'02
	11249 Oct 27 11:16	0°♄			11250 Oct 04 20:47	0°♄	
desc. node	11249 Nov 08 02:19	19°♄49'42		evening rise	11250 Oct 05 23:33	2°♄24'46	
	11249 Nov 16 01:07	0°♄			11250 Oct 20 16:50	0°♄	
evening max el	11249 Nov 18 20:43	2°♄52'34	26°03'10	desc. node	11250 Oct 25 23:33	7°♄23'09	
retrograde	11249 Dec 02 18:35	9°♄55'43		evening max el	11250 Oct 31 10:24	13°♄26'44	24°35'26
evening set	11249 Dec 09 03:04	8°♄19'55		retrograde	11250 Nov 14 04:45	20°♄20'30	
min. Earth dist.	11249 Dec 13 09:33	5°♄44'35	0.58259 AU	evening set	11250 Nov 19 12:28	19°♄17'35	
inferior conj	11249 Dec 16 11:45	3°♄30'33	-4°41'10	min. Earth dist.	11250 Nov 24 21:49	16°♄29'40	0.56393 AU
minimum elong	11249 Dec 16 19:56	3°♄15'42	4°38'26	inferior conj	11250 Nov 27 09:56	14°♄54'38	-5°34'41
	11249 Dec 22 01:42	30°♄		minimum elong	11250 Nov 27 15:16	14°♄46'12	5°33'25
morning rise	11249 Dec 24 15:25	29°♄05'31		morning rise	11250 Dec 05 20:13	10°♄51'09	
direct	11249 Dec 26 19:21	28°♄50'13		direct	11250 Dec 08 07:30	10°♄34'35	
	11249 Dec 31 06:51	0°♄		morning max el	11250 Dec 18 01:06	15°♄13'39	19°33'05
asc. node	11250 Jan 01 14:39	0°♄47'53		asc. node	11250 Dec 19 11:43	16°♄42'32	
morning max el	11250 Jan 04 04:10	2°♄55'06	18°36'21		11250 Dec 28 12:29	0°♄	
morning set	11250 Jan 20 05:54	28°♄40'58		morning set	11251 Jan 04 08:47	13°♄10'52	
	11250 Jan 20 22:14	0°♄					
superior conj	11250 Jan 29 01:59	15°♄37'01	0°45'39	superior conj	11251 Jan 12 08:13	29°♄10'15	1°10'10
minimum elong	11250 Jan 29 04:45	15°♄49'57	0°45'45	minimum elong	11251 Jan 12 11:09	29°♄24'40	1°10'25
desc. node	11250 Feb 04 01:47	26°♄29'52			11251 Jan 12 18:22	0°♄	
max. Earth dist.	11250 Feb 05 10:33	28°♄53'23	1.40038 AU	max. Earth dist.	11251 Jan 18 16:22	11°♄14'25	1.37816 AU
	11250 Feb 06 01:54	0°♄		desc. node	11251 Jan 21 22:33	17°♄07'35	
				evening rise	11251 Jan 22 09:46	17°♄57'09	

	11251 Jan 29 12:25	0° H			11252 Jan 04 14:32	0° \approx	
	11251 Feb 19 07:29	0° Y		evening rise	11252 Jan 05 00:23	0° \approx 45'54	
evening max el	11251 Feb 26 21:23	8° Y 30'19	25°10'49	desc. node	11252 Jan 08 19:24	7° \approx 38'40	
retrograde	11251 Mar 10 22:12	15° Y 29'08			11252 Jan 22 15:18	0° H	
evening set	11251 Mar 16 16:35	13° Y 05'26		evening max el	11252 Feb 09 11:01	22° H 19'07	26°17'30
asc. node	11251 Mar 17 09:45	12° Y 26'55		retrograde	11252 Feb 22 06:58	29° H 35'30	
min. Earth dist.	11251 Mar 21 02:42	8° Y 10'48	0.67843 AU	evening set	11252 Feb 28 12:50	27° H 04'29	
inferior conj	11251 Mar 22 07:57	6° Y 35'19	1°31'00	asc. node	11252 Mar 03 07:02	23° H 13'25	
minimum elong	11251 Mar 22 06:03	6° Y 41'32	1°30'20	min. Earth dist.	11252 Mar 03 16:44	22° H 44'28	0.66793 AU
morning rise	11251 Mar 27 19:52	0° Y 40'29		inferior conj	11252 Mar 05 09:54	20° H 38'29	0°40'48
	11251 Mar 29 00:09	30° R H		minimum elong	11252 Mar 05 08:52	20° H 41'38	0°40'34
direct	11251 Mar 31 09:30	29° H 27'19		morning rise	11252 Mar 11 05:43	14° H 53'35	
	11251 Apr 02 21:08	0° Y		direct	11252 Mar 14 08:26	13° H 58'46	
morning max el	11251 Apr 07 11:47	3° Y 21'47	19°22'18	morning max el	11252 Mar 20 22:11	17° H 30'26	18°33'49
desc. node	11251 Apr 19 23:49	19° Y 43'09			11252 Mar 30 11:58	0° Y	
greatest brilliancy	11251 Apr 20 06:04	20° Y 06'14	-0.7m	desc. node	11252 Apr 05 20:32	9° Y 47'40	
	11251 Apr 26 19:35	0° B		morning set	11252 Apr 10 19:51	17° Y 36'33	
morning set	11251 May 02 02:35	8° B 07'05			11252 Apr 18 17:10	0° B	
max. Earth dist.	11251 May 14 19:38	27° B 54'14	1.45032 AU				
	11251 May 16 03:30	0° II		superior conj	11252 Apr 26 21:44	12° B 48'44	-2°01'06
				minimum elong	11252 Apr 26 14:02	12° B 18'38	2°01'03
superior conj	11251 May 18 13:14	3° II 49'01	-2°13'11	max. Earth dist.	11252 Apr 26 14:06	12° B 18'54	1.45667 AU
minimum elong	11251 May 18 12:36	3° II 46'30	2°13'45		11252 May 07 20:28	0° II	
evening rise	11251 Jun 01 19:08	27° II 00'52		evening rise	11252 May 12 12:57	7° II 25'31	
	11251 Jun 03 14:14	0° E		greatest brilliancy	11252 May 20 22:48	20° II 45'34	-0.8m
asc. node	11251 Jun 13 07:44	15° E 49'03			11252 May 27 00:14	0° E	
evening max el	11251 Jun 20 16:15	25° E 27'14	18°16'32	asc. node	11252 May 30 04:48	4° E 26'22	
retrograde	11251 Jun 27 01:11	28° E 50'23		evening max el	11252 Jun 03 03:50	9° E 04'48	18°46'36
evening set	11251 Jun 30 00:26	28° E 02'37		retrograde	11252 Jun 09 19:03	12° E 43'07	
inferior conj	11251 Jul 05 22:54	22° E 38'28	2°45'10	evening set	11252 Jun 13 02:37	11° E 40'04	
minimum elong	11251 Jul 06 01:11	22° E 31'55	2°44'04	inferior conj	11252 Jun 18 16:40	5° E 59'57	3°08'28
min. Earth dist.	11251 Jul 08 09:57	19° E 50'48	0.63989 AU	minimum elong	11252 Jun 18 17:57	5° E 55'59	3°07'39
morning rise	11251 Jul 12 00:30	16° E 21'52		min. Earth dist.	11252 Jun 20 12:49	3° E 42'54	0.65812 AU
desc. node	11251 Jul 16 23:33	13° E 54'04			11252 Jun 23 22:56	30° R II	
direct	11251 Jul 18 16:24	13° E 44'13		morning rise	11252 Jun 24 08:32	29° II 38'46	
morning max el	11251 Aug 01 11:32	21° E 45'57	27°36'53	direct	11252 Jun 30 18:26	26° II 55'31	
	11251 Aug 08 15:59	0° O		desc. node	11252 Jul 02 20:43	27° II 10'49	
	11251 Aug 28 07:36	0° P			11252 Jul 08 12:47	0° E	
morning set	11251 Sep 05 11:36	15° P 19'28		morning max el	11252 Jul 13 22:13	4° E 43'45	26°45'03
asc. node	11251 Sep 09 08:07	23° P 09'11			11252 Aug 02 04:31	0° O	
max. Earth dist.	11251 Sep 10 07:19	25° P 10'14	1.32736 AU	morning set	11252 Aug 18 17:53	28° O 26'16	
	11251 Sep 12 14:00	0° A			11252 Aug 19 13:30	0° P	
				max. Earth dist.	11252 Aug 22 21:16	6° P 30'35	1.34170 AU
superior conj	11251 Sep 13 11:22	1° A 54'36	0°39'42	asc. node	11252 Aug 26 04:50	13° P 14'28	
minimum elong	11251 Sep 13 09:36	1° A 45'05	0°39'20				
evening rise	11251 Sep 20 10:53	17° A 00'04		superior conj	11252 Aug 27 11:26	15° P 53'06	0°12'25
	11251 Sep 26 19:46	0° L		minimum elong	11252 Aug 27 10:47	15° P 49'44	0°12'04
desc. node	11251 Oct 12 20:50	23° L 34'06		behind sun begin	11252 Aug 27 06:57	15° P 29'44	
evening max el	11251 Oct 12 21:01	23° L 34'32	22°55'01	behind sun end	11252 Aug 27 14:38	16° P 09'45	
	11251 Oct 24 02:42	0° J			11252 Sep 03 04:01	0° A	
retrograde	11251 Oct 26 02:05	0° J 08'53		evening rise	11252 Sep 03 20:49	1° A 28'16	
	11251 Oct 28 02:05	30° R L			11252 Sep 20 03:12	0° L	
evening set	11251 Oct 29 23:33	29° L 35'52		evening max el	11252 Sep 23 13:24	3° L 50'07	21°18'51
min. Earth dist.	11251 Nov 06 05:51	26° L 17'17	0.55080 AU	desc. node	11252 Sep 28 18:11	7° L 53'16	
inferior conj	11251 Nov 07 13:16	25° L 32'14	-5°46'51	retrograde	11252 Oct 05 14:05	9° L 48'35	
minimum elong	11251 Nov 07 10:53	25° L 35'39	5°46'12	evening set	11252 Oct 08 04:13	9° L 33'06	
morning rise	11251 Nov 15 23:50	21° L 43'03		inferior conj	11252 Oct 17 05:42	5° L 37'56	-5°01'40
direct	11251 Nov 19 01:46	21° L 20'54		minimum elong	11252 Oct 16 20:30	5° L 50'50	4°59'21
morning max el	11251 Nov 30 08:28	26° L 41'28	20°52'30	min. Earth dist.	11252 Oct 17 12:47	5° L 28'00	0.54584 AU
	11251 Dec 03 10:46	0° J		morning rise	11252 Oct 25 13:31	1° L 47'39	
asc. node	11251 Dec 06 08:43	3° J 47'40		direct	11252 Oct 29 10:15	1° L 15'29	
morning set	11251 Dec 19 16:48	27° J 53'09		morning max el	11252 Nov 11 02:48	7° L 19'21	22°31'30
	11251 Dec 20 17:14	0° B		asc. node	11252 Nov 22 05:40	21° L 46'47	
					11252 Nov 26 20:58	0° J	
superior conj	11251 Dec 27 02:10	13° B 15'34	1°26'55	morning set	11252 Dec 03 03:41	12° J 40'27	
minimum elong	11251 Dec 27 04:23	13° B 26'57	1°27'23				
max. Earth dist.	11252 Jan 01 01:08	23° B 12'04	1.35740 AU	superior conj	11252 Dec 10 04:15	27° J 42'04	1°36'27

minimum elong	11252 Dec 10 05:22	27°  48'00	1°37'04	superior conj	11253 Nov 24 11:44	12°  21'45	1°39'23
	11252 Dec 11 06:17	0° 		minimum elong	11253 Nov 24 11:41	12°  21'28	1°40'00
max. Earth dist.	11252 Dec 13 16:55	5°  05'58	1.33980 AU	max. Earth dist.	11253 Nov 26 16:29	17°  07'47	1.32638 AU
evening rise	11252 Dec 18 05:34	14°  11'23		evening rise	11253 Dec 01 21:54	28°  04'48	
desc. node	11252 Dec 25 16:19	27°  57'47			11253 Dec 02 20:46	0° 	
	11252 Dec 26 20:31	0° 		desc. node	11253 Dec 12 13:19	17°  59'10	
	11253 Jan 16 11:18	0° 			11253 Dec 20 01:32	0° 	
evening max el	11253 Jan 22 00:36	5°  57'03	27°06'17	evening max el	11254 Jan 04 12:43	19°  12'23	27°30'10
retrograde	11253 Feb 04 09:42	13°  20'11		retrograde	11254 Jan 18 05:51	26°  34'40	
evening set	11253 Feb 11 01:33	10°  46'57		evening set	11254 Jan 25 04:21	24°  06'00	
min. Earth dist.	11253 Feb 15 00:10	7°  00'30	0.65364 AU	min. Earth dist.	11254 Jan 28 22:55	20°  50'25	0.63601 AU
inferior conj	11253 Feb 17 05:11	4°  31'22	-0°19'01	inferior conj	11254 Jan 31 15:08	18°  07'31	-1°27'48
minimum elong	11253 Feb 17 05:43	4°  29'51	0°18'26	minimum elong	11254 Jan 31 17:58	18°  00'19	1°26'08
asc. node	11253 Feb 18 04:20	3°  26'46		asc. node	11254 Feb 05 01:38	14°  07'43	
	11253 Feb 21 19:32	30° 		morning rise	11254 Feb 07 09:43	12°  50'16	
morning rise	11253 Feb 23 11:20	28°  58'52		direct	11254 Feb 09 19:18	12°  22'08	
direct	11253 Feb 26 04:37	28°  19'12		morning max el	11254 Feb 16 07:17	15°  42'56	17°47'41
	11253 Mar 02 15:00	0° 			11254 Feb 26 10:55	0° 	
morning max el	11253 Mar 04 13:36	1°  40'00	18°02'09	morning set	11254 Mar 04 18:35	10°  44'53	
morning set	11253 Mar 22 17:44	28°  31'45		desc. node	11254 Mar 10 13:53	20°  38'39	
desc. node	11253 Mar 23 17:13	0° 			11254 Mar 16 04:43	0° 	
	11253 Mar 23 15:18	0° 					
				superior conj	11254 Mar 17 10:02	2°  00'02	-0°50'03
superior conj	11253 Apr 06 07:09	21°  05'8'01	-1°30'38	minimum elong	11254 Mar 17 04:45	1°  38'26	0°49'16
minimum elong	11253 Apr 05 22:00	21°  05'21'53	1°29'51	max. Earth dist.	11254 Mar 23 05:14	11°  20'26	1.44699 AU
max. Earth dist.	11253 Apr 09 10:24	26°  05'53'58	1.45547 AU	evening rise	11254 Apr 01 21:20	26°  05'47	
	11253 Apr 11 09:57	0° 			11254 Apr 04 05:22	0° 	
evening rise	11253 Apr 22 09:55	17°  03'39			11254 Apr 24 22:35	0° 	
	11253 Apr 30 20:14	0° 		evening max el	11254 Apr 30 12:35	6°  31'39	20°34'49
greatest brilliancy	11253 May 05 17:22	7°  20'48	-0.7m	asc. node	11254 May 03 23:10	9°  30'00	
asc. node	11253 May 17 01:56	22°  24'27		retrograde	11254 May 08 15:35	11°  31'45'2	
evening max el	11253 May 17 11:02	22°  47'42	19°33'20	evening set	11254 May 12 17:24	9°  39'58	
retrograde	11253 May 24 16:42	26°  53'32		inferior conj	11254 May 18 00:06	3°  32'33	3°11'48
evening set	11253 May 28 09:01	25°  34'34		minimum elong	11254 May 17 23:13	3°  35'37	3°11'09
inferior conj	11253 Jun 02 17:59	19°  39'56	3°16'27	min. Earth dist.	11254 May 18 15:22	2°  40'02	0.68160 AU
minimum elong	11253 Jun 02 18:07	19°  39'30	3°15'48		11254 May 20 15:45	30° 	
min. Earth dist.	11253 Jun 03 23:15	18°  03'02	0.67215 AU	morning rise	11254 May 23 04:47	27°  14'19	
morning rise	11253 Jun 08 02:50	13°  18'48		direct	11254 May 28 16:30	24°  48'28	
direct	11253 Jun 14 02:47	10°  40'14		desc. node	11254 Jun 06 14:49	29°  23'03	
desc. node	11253 Jun 19 17:49	12°  30'31			11254 Jun 07 06:59	0° 	
morning max el	11253 Jun 26 08:39	18°  00'17	25°30'49	morning max el	11254 Jun 08 18:29	1°  26'26	24°03'54
	11253 Jul 06 10:19	0° 			11254 Jun 30 09:39	0° 	
	11253 Jul 26 04:50	0° 		morning set	11254 Jul 14 05:38	22° 	
morning set	11253 Aug 01 09:30	10°  05'59		max. Earth dist.	11254 Jul 17 23:11	28°  52'44	1.38282 AU
max. Earth dist.	11253 Aug 05 01:25	17°  03'7'15	1.36067 AU		11254 Jul 18 14:14	0° 	
superior conj	11253 Aug 11 02:47	29°  02'3'49	-0°18'45	superior conj	11254 Jul 25 05:52	12°  01'7'36	-0°52'15
minimum elong	11253 Aug 11 03:57	29°  02'29'41	0°18'56	minimum elong	11254 Jul 25 09:25	12°  02'34'29	0°52'11
	11253 Aug 11 10:01	0° 		asc. node	11254 Jul 30 22:25	23°  02'20'03	
asc. node	11253 Aug 13 01:36	3°  00'19'31		evening rise	11254 Aug 03 03:29	29°  02'40'05	
evening rise	11253 Aug 19 03:14	15°  00'44'12			11254 Aug 03 07:32	0° 	
	11253 Aug 26 11:03	0° 		evening max el	11254 Aug 19 13:07	26°  02'24'17	19°00'19
evening max el	11253 Sep 05 18:28	14°  02'43'30	19°59'03		11254 Aug 24 14:00	0° 	
desc. node	11253 Sep 15 15:32	19°  02'53'13		retrograde	11254 Aug 28 08:00	0°  02'47'23	
retrograde	11253 Sep 16 04:13	19°  02'53'59		evening set	11254 Aug 30 04:52	0°  02'36'16	
evening set	11253 Sep 18 02:19	19°  02'44'11			11254 Sep 01 06:21	30° 	
inferior conj	11253 Sep 27 01:28	15°  02'44'06	-3°27'17	desc. node	11254 Sep 02 12:55	29° 	
minimum elong	11253 Sep 26 16:34	15°  02'57'33	3°24'07	inferior conj	11254 Sep 07 13:21	26°  02'20'56	-1°34'12
min. Earth dist.	11253 Sep 28 21:48	14°  02'37'07	0.55033 AU	minimum elong	11254 Sep 07 09:17	26°  02'27'59	1°32'42
morning rise	11253 Oct 05 05:31	11°  02'31'32		min. Earth dist.	11254 Sep 10 11:18	24°  02'19'52	0.56355 AU
direct	11253 Oct 09 21:39	10°  02'44'01		morning rise	11254 Sep 15 10:34	21°  02'32'08	
morning max el	11253 Oct 23 14:14	17°  02'28'02	24°19'23	direct	11254 Sep 20 21:54	20°  02'21'34	
	11253 Nov 02 19:17	0° 		morning max el	11254 Oct 05 02:47	27°  02'38'54	25°59'08
asc. node	11253 Nov 09 02:35	10°  02'26'50			11254 Oct 07 10:16	0° 	
morning set	11253 Nov 17 15:33	27°  02'27'22		asc. node	11254 Oct 26 23:25	29°  02'37'15	
	11253 Nov 18 19:57	0° 			11254 Oct 27 04:07	0° 	
				morning set	11254 Nov 02 02:40	12°  02'08'54	

superior conj	11254 Nov 08 22:21	27° \mathbb{M} 07'40	1°36'13		11255 Oct 03 07:30	0° \mathbb{L}	
minimum elong	11254 Nov 08 21:15	27° \mathbb{M} 01'38	1°36'42	asc. node	11255 Oct 13 20:11	19° \mathbb{L} 10'00	
max. Earth dist.	11254 Nov 09 22:12	29° \mathbb{M} 19'46	1.31768 AU	morning set	11255 Oct 17 11:19	26° \mathbb{L} 40'08	
	11254 Nov 10 05:29	0° \mathbb{A}			11255 Oct 19 00:39	0° \mathbb{M}	
evening rise	11254 Nov 15 22:24	12° \mathbb{A} 18'38					
	11254 Nov 25 00:29	0° \mathbb{B}		superior conj	11255 Oct 24 10:04	11° \mathbb{M} 53'36	1°27'19
desc. node	11254 Nov 29 10:24	7° \mathbb{B} 35'18		minimum elong	11255 Oct 24 08:13	11° \mathbb{M} 43'17	1°27'33
	11254 Dec 15 23:44	0° \mathbb{C}		max. Earth dist.	11255 Oct 24 07:01	11° \mathbb{M} 36'36	1.31397 AU
evening max el	11254 Dec 17 21:16	1° \mathbb{C} 52'47	27°23'17	evening rise	11255 Oct 31 04:34	26° \mathbb{M} 46'03	
retrograde	11254 Dec 31 18:37	9° \mathbb{C} 09'20			11255 Nov 01 17:19	0° \mathbb{A}	
evening set	11255 Jan 07 18:14	6° \mathbb{C} 54'08		desc. node	11255 Nov 16 07:34	26° \mathbb{A} 35'36	
min. Earth dist.	11255 Jan 11 11:40	4° \mathbb{C} 03'11	0.61579 AU		11255 Nov 18 14:12	0° \mathbb{B}	
inferior conj	11255 Jan 14 12:37	1° \mathbb{C} 19'07	-2°43'22	evening max el	11255 Nov 29 23:42	13° \mathbb{B} 46'31	26°42'05
minimum elong	11255 Jan 14 18:11	1° \mathbb{C} 06'33	2°40'38	retrograde	11255 Dec 13 22:22	20° \mathbb{B} 54'35	
	11255 Jan 16 00:22	30° \mathbb{R} \mathbb{B}		evening set	11255 Dec 20 15:08	19° \mathbb{B} 02'23	
morning rise	11255 Jan 21 20:50	26° \mathbb{B} 20'04		min. Earth dist.	11255 Dec 24 13:51	16° \mathbb{B} 25'24	0.59448 AU
asc. node	11255 Jan 22 22:52	26° \mathbb{B} 04'57		inferior conj	11255 Dec 27 18:01	13° \mathbb{B} 55'49	-4°00'21
direct	11255 Jan 24 01:04	25° \mathbb{B} 59'46		minimum elong	11255 Dec 28 01:51	13° \mathbb{B} 40'23	3°57'15
morning max el	11255 Jan 30 23:57	29° \mathbb{B} 30'32	17°51'09	morning rise	11256 Jan 04 15:21	9° \mathbb{B} 17'34	
	11255 Jan 31 11:36	0° \mathbb{C}		direct	11256 Jan 06 17:51	9° \mathbb{B} 01'28	
morning set	11255 Feb 15 16:20	23° \mathbb{C} 57'24		asc. node	11256 Jan 09 20:02	9° \mathbb{B} 37'59	
	11255 Feb 19 00:57	0° \mathbb{H}		morning max el	11256 Jan 14 11:55	12° \mathbb{B} 51'37	18°13'50
desc. node	11255 Feb 25 10:34	11° \mathbb{H} 16'28			11256 Jan 26 00:01	0° \mathbb{C}	
				morning set	11256 Jan 30 04:52	7° \mathbb{C} 50'14	
superior conj	11255 Feb 26 13:34	13° \mathbb{H} 12'38	-0°08'38				
minimum elong	11255 Feb 26 12:48	13° \mathbb{H} 09'20	0°08'15	superior conj	11256 Feb 08 16:20	25° \mathbb{C} 29'38	0°27'54
behind sun begin	11255 Feb 26 05:27	12° \mathbb{H} 37'48		minimum elong	11256 Feb 08 18:22	25° \mathbb{C} 38'50	0°28'02
behind sun end	11255 Feb 26 20:09	13° \mathbb{H} 40'49			11256 Feb 11 04:44	0° \mathbb{H}	
max. Earth dist.	11255 Mar 05 20:19	25° \mathbb{H} 22'51	1.43225 AU	desc. node	11256 Feb 12 07:16	1° \mathbb{H} 56'58	
	11255 Mar 08 16:56	0° \mathbb{Y}		max. Earth dist.	11256 Feb 16 06:45	8° \mathbb{H} 48'35	1.41284 AU
evening rise	11255 Mar 12 14:54	6° \mathbb{Y} 11'43		evening rise	11256 Feb 21 01:55	16° \mathbb{H} 46'34	
	11255 Mar 28 12:11	0° \mathbb{B}			11256 Feb 29 11:35	0° \mathbb{Y}	
evening max el	11255 Apr 13 08:42	20° \mathbb{B} 16'55	21°47'42		11256 Mar 22 06:39	0° \mathbb{B}	
asc. node	11255 Apr 20 20:26	25° \mathbb{B} 28'17		evening max el	11256 Mar 26 00:46	4° \mathbb{B} 04'21	23°07'13
retrograde	11255 Apr 22 13:44	25° \mathbb{B} 42'35		retrograde	11256 Apr 05 09:29	10° \mathbb{B} 11'28	
evening set	11255 Apr 27 01:58	23° \mathbb{B} 52'14		asc. node	11256 Apr 06 17:43	10° \mathbb{B} 02'54	
inferior conj	11255 May 02 08:48	17° \mathbb{B} 34'14	2°56'14	evening set	11256 Apr 10 09:06	8° \mathbb{B} 06'37	
minimum elong	11255 May 02 07:07	17° \mathbb{B} 40'04	2°55'29	inferior conj	11256 Apr 15 18:01	1° \mathbb{B} 40'59	2°30'42
min. Earth dist.	11255 May 02 10:58	17° \mathbb{B} 26'40	0.68648 AU	minimum elong	11256 Apr 15 15:54	1° \mathbb{B} 48'18	2°29'52
morning rise	11255 May 07 12:05	11° \mathbb{B} 20'47		min. Earth dist.	11256 Apr 15 07:46	2° \mathbb{B} 16'28	0.68681 AU
direct	11255 May 12 10:39	9° \mathbb{B} 13'06			11256 Apr 16 23:32	30° \mathbb{R} \mathbb{Y}	
morning max el	11255 May 22 05:30	14° \mathbb{B} 59'45	22°34'07	morning rise	11256 Apr 20 22:36	25° \mathbb{Y} 33'46	
desc. node	11255 May 24 11:44	17° \mathbb{B} 23'55		direct	11256 Apr 25 07:55	23° \mathbb{Y} 47'08	
	11255 Jun 03 10:03	0° \mathbb{I}		morning max el	11256 May 03 21:00	28° \mathbb{Y} 42'27	21°10'00
	11255 Jun 23 08:59	0° \mathbb{E}			11256 May 05 02:58	0° \mathbb{B}	
morning set	11255 Jun 25 01:23	2° \mathbb{E} 44'06		desc. node	11256 May 10 08:33	6° \mathbb{B} 14'14	
max. Earth dist.	11255 Jun 29 20:58	10° \mathbb{E} 45'04	1.40583 AU		11256 May 27 00:48	0° \mathbb{I}	
				morning set	11256 Jun 03 19:09	11° \mathbb{I} 57'36	
superior conj	11255 Jul 07 16:33	24° \mathbb{E} 25'08	-1°25'21	max. Earth dist.	11256 Jun 11 00:40	23° \mathbb{I} 31'55	1.42693 AU
minimum elong	11255 Jul 07 22:23	24° \mathbb{E} 51'28	1°25'12		11256 Jun 14 22:38	0° \mathbb{E}	
	11255 Jul 10 18:03	0° \mathbb{L}					
evening rise	11255 Jul 17 18:17	13° \mathbb{L} 07'40		superior conj	11256 Jun 18 06:20	5° \mathbb{E} 36'30	-1°53'37
asc. node	11255 Jul 17 19:16	13° \mathbb{L} 12'19		minimum elong	11256 Jun 18 12:52	6° \mathbb{E} 04'22	1°53'44
	11255 Jul 27 03:28	0° \mathbb{M}		evening rise	11256 Jun 29 19:28	25° \mathbb{E} 56'33	
evening max el	11255 Aug 02 18:12	8° \mathbb{M} 47'54	18°22'53		11256 Jul 02 01:40	0° \mathbb{L}	
retrograde	11255 Aug 10 06:39	12° \mathbb{M} 34'52		asc. node	11256 Jul 03 16:11	2° \mathbb{L} 51'51	
evening set	11255 Aug 12 09:29	12° \mathbb{M} 17'39		evening max el	11256 Jul 16 05:35	21° \mathbb{L} 44'06	18°05'32
inferior conj	11255 Aug 19 22:50	7° \mathbb{M} 42'10	0°08'45	retrograde	11256 Jul 22 22:55	25° \mathbb{L} 10'15	
minimum elong	11255 Aug 19 23:08	7° \mathbb{M} 41'33	0°08'19	evening set	11256 Jul 25 09:38	24° \mathbb{L} 43'07	
transit middle	11255 Aug 19 23:08	7° \mathbb{M} 41'33	0°08'19	inferior conj	11256 Aug 01 05:00	19° \mathbb{L} 47'09	1°28'23
transit begin	11255 Aug 19 20:07	7° \mathbb{M} 47'42		minimum elong	11256 Aug 01 07:24	19° \mathbb{L} 41'29	1°27'06
transit end	11255 Aug 20 02:09	7° \mathbb{M} 35'23		min. Earth dist.	11256 Aug 04 10:21	16° \mathbb{L} 45'59	0.60552 AU
desc. node	11255 Aug 20 10:16	7° \mathbb{M} 18'49		desc. node	11256 Aug 06 07:33	15° \mathbb{L} 10'38	
min. Earth dist.	11255 Aug 23 06:56	5° \mathbb{M} 00'23	0.58306 AU	morning rise	11256 Aug 08 02:21	13° \mathbb{L} 54'14	
morning rise	11255 Aug 27 09:14	2° \mathbb{M} 17'11		direct	11256 Aug 14 16:05	11° \mathbb{L} 47'03	
direct	11255 Sep 02 12:52	0° \mathbb{M} 37'58		morning max el	11256 Aug 28 22:59	19° \mathbb{L} 42'50	27°52'42
morning max el	11255 Sep 16 21:19	8° \mathbb{M} 18'58	27°13'45		11256 Sep 06 17:41	0° \mathbb{M}	

	11256 Sep 25 04:25	0°♄		morning max el	11257 Aug 11 06:24	1°♄50'53	27°53'03
asc. node	11256 Sep 29 16:54	8°♄58'37			11257 Sep 01 00:41	0°♄	
morning set	11256 Sep 30 15:43	10°♄56'33		morning set	11257 Sep 14 13:43	24°♄51'38	
max. Earth dist.	11256 Oct 06 15:28	23°♄50'06	1.31525 AU	asc. node	11257 Sep 16 13:38	28°♄57'10	
					11257 Sep 17 01:42	0°♄	
superior conj	11256 Oct 07 21:07	26°♄34'09	1°12'57	max. Earth dist.	11257 Sep 19 19:32	5°♄48'38	1.32153 AU
minimum elong	11256 Oct 07 18:53	26°♄21'48	1°12'52				
	11256 Oct 09 10:12	0°♄		superior conj	11257 Sep 22 05:34	11°♄02'54	0°53'18
evening rise	11256 Oct 14 14:17	11°♄21'22		minimum elong	11257 Sep 22 03:28	10°♄51'25	0°52'59
	11256 Oct 23 22:51	0°♄		evening rise	11257 Sep 29 01:33	25°♄58'03	
desc. node	11256 Nov 02 04:47	14°♄46'15			11257 Sep 30 23:07	0°♄	
evening max el	11256 Nov 10 18:04	24°♄48'34	25°28'36		11257 Oct 18 14:02	0°♄	
	11256 Nov 17 18:43	0°♄		desc. node	11257 Oct 20 02:03	1°♄47'38	
retrograde	11256 Nov 24 15:00	1°♄47'26		evening max el	11257 Oct 23 05:24	5°♄07'05	23°53'08
evening set	11256 Nov 30 14:26	0°♄25'37		retrograde	11257 Nov 05 19:14	11°♄54'01	
	11256 Dec 01 12:13	30°♄♂		evening set	11257 Nov 10 13:23	11°♄04'36	
min. Earth dist.	11256 Dec 05 06:18	27°♄47'14	0.57419 AU	min. Earth dist.	11257 Nov 16 15:53	8°♄05'57	0.55754 AU
inferior conj	11256 Dec 08 04:05	25°♄48'25	-5°07'31	inferior conj	11257 Nov 18 17:37	6°♄51'13	-5°46'09
minimum elong	11256 Dec 08 11:41	25°♄35'25	5°05'18	minimum elong	11257 Nov 18 20:05	6°♄47'29	5°45'26
morning rise	11256 Dec 16 11:16	21°♄32'33		morning rise	11257 Nov 27 04:43	2°♄55'27	
direct	11256 Dec 18 17:34	21°♄17'05		direct	11257 Nov 29 21:41	2°♄36'56	
asc. node	11256 Dec 26 17:06	24°♄44'36		morning max el	11257 Dec 10 06:34	7°♄32'26	20°04'15
morning max el	11256 Dec 27 15:19	25°♄35'35	18°57'39	asc. node	11257 Dec 13 14:07	11°♄10'48	
	11256 Dec 31 10:40	0°♄			11257 Dec 24 23:55	0°♄	
morning set	11257 Jan 13 03:32	22°♄09'43		morning set	11257 Dec 28 08:53	6°♄45'45	
	11257 Jan 17 02:56	0°♄					
superior conj	11257 Jan 21 13:54	8°♄38'45	0°57'01	superior conj	11258 Jan 05 01:35	22°♄26'52	1°18'12
minimum elong	11257 Jan 21 16:54	8°♄53'00	0°57'09	minimum elong	11258 Jan 05 04:17	22°♄40'25	1°18'32
max. Earth dist.	11257 Jan 28 13:46	21°♄33'29	1.39095 AU	max. Earth dist.	11258 Jan 08 21:43	0°♄	
desc. node	11257 Jan 29 04:01	22°♄36'45		evening rise	11258 Jan 10 20:30	3°♄43'09	1.36901 AU
evening rise	11257 Feb 01 10:16	28°♄17'11		desc. node	11258 Jan 14 14:41	10°♄39'20	
	11257 Feb 02 10:26	0°♄			11258 Jan 16 00:50	13°♄12'08	
	11257 Feb 21 22:58	0°♄			11258 Jan 26 02:14	0°♄	
evening max el	11257 Mar 08 14:41	17°♄54'21	24°27'14	evening max el	11258 Feb 17 10:46	0°♄	
retrograde	11257 Mar 20 01:41	24°♄36'34		retrograde	11258 Feb 19 03:59	1°♄44'35	25°40'54
asc. node	11257 Mar 24 15:00	23°♄02'21		evening set	11258 Mar 03 13:24	8°♄52'11	
evening set	11257 Mar 25 13:17	22°♄18'53		asc. node	11258 Mar 09 12:57	6°♄24'34	
min. Earth dist.	11257 Mar 30 03:32	17°♄04'15	0.68274 AU	min. Earth dist.	11258 Mar 11 12:18	4°♄30'23	
inferior conj	11257 Mar 31 01:55	15°♄49'17	1°55'34	inferior conj	11258 Mar 13 20:13	1°♄45'04	0.67443 AU
minimum elong	11257 Mar 30 23:47	15°♄56'24	1°54'46	minimum elong	11258 Mar 15 06:37	29°♄55'39	1°10'54
morning rise	11257 Apr 05 10:25	9°♄49'40			11258 Mar 15 05:00	0°♄00'47	1°10'22
direct	11257 Apr 09 07:02	8°♄24'36		morning rise	11258 Mar 15 05:15	30°♄♂	
morning max el	11257 Apr 16 19:48	12°♄37'23	19°57'27	direct	11258 Mar 20 21:36	24°♄05'05	
desc. node	11257 Apr 27 05:20	25°♄40'36		morning max el	11258 Mar 24 06:26	23°♄00'07	
	11257 Apr 30 05:24	0°♄			11258 Mar 31 02:25	26°♄43'07	18°59'47
morning set	11257 May 13 19:53	20°♄29'17		greatest brilliancy	11258 Apr 03 01:44	0°♄	
	11257 May 19 22:56	0°♄		desc. node	11258 Apr 13 13:05	14°♄44'19	-0.8m
max. Earth dist.	11257 May 24 11:51	7°♄09'56	1.44357 AU	morning set	11258 Apr 14 02:03	15°♄33'31	
					11258 Apr 23 01:03	29°♄21'17	
superior conj	11257 May 29 20:02	15°♄45'22	-2°10'52	max. Earth dist.	11258 Apr 23 11:02	0°♄	
minimum elong	11257 May 29 23:20	15°♄58'46	2°11'25		11258 May 07 04:25	21°♄22'51	1.45389 AU
	11257 Jun 07 10:21	0°♄		superior conj	11258 May 09 12:08	25°♄01'48	-2°10'36
evening rise	11257 Jun 12 02:11	7°♄55'08		minimum elong	11258 May 09 08:12	24°♄46'19	2°11'00
asc. node	11257 Jun 20 13:08	22°♄12'49			11258 May 12 15:38	0°♄	
	11257 Jun 25 15:16	0°♄		evening rise	11258 May 24 10:06	18°♄55'13	
evening max el	11257 Jun 29 19:25	5°♄02'20	18°07'10		11258 May 31 05:37	0°♄	
retrograde	11257 Jul 06 04:35	8°♄22'37		asc. node	11258 Jun 07 10:11	11°♄09'02	
evening set	11257 Jul 08 23:15	7°♄42'54		evening max el	11258 Jun 13 08:33	18°♄35'04	18°27'05
inferior conj	11257 Jul 15 04:11	2°♄28'12	2°23'24	retrograde	11258 Jun 19 19:12	22°♄03'25	
minimum elong	11257 Jul 15 06:50	2°♄21'06	2°22'08	evening set	11258 Jun 22 21:53	21°♄09'19	
	11257 Jul 17 11:27	30°♄♂		inferior conj	11258 Jun 28 16:19	15°♄37'56	2°57'06
min. Earth dist.	11257 Jul 17 22:56	29°♄30'11	0.62794 AU	minimum elong	11258 Jun 28 18:13	15°♄32'17	2°56'08
morning rise	11257 Jul 21 12:31	26°♄17'30		min. Earth dist.	11258 Jun 30 21:02	13°♄01'50	0.64810 AU
desc. node	11257 Jul 24 04:49	24°♄41'37		morning rise	11258 Jul 04 13:27	9°♄18'24	
direct	11257 Jul 28 05:21	23°♄48'34		direct	11258 Jul 11 03:11	6°♄37'15	
	11257 Aug 09 08:02	0°♄		desc. node	11258 Jul 11 02:01	6°♄37'15	

morning max el	11258 Jul 24 16:53	14°☿35'15	27°18'10	morning max el	11259 Jul 07 03:44	27°♄42'56	26°15'35
	11258 Aug 06 05:56	0°♌			11259 Jul 09 07:30	0°☿	
	11258 Aug 24 17:21	0°♍			11259 Jul 30 22:43	0°♌	
morning set	11258 Aug 29 02:43	8°♍19'03		morning set	11259 Aug 12 03:22	21°♌10'05	
max. Earth dist.	11258 Sep 02 15:29	17°♍23'58	1.33291 AU	max. Earth dist.	11259 Aug 16 00:55	28°♌35'56	1.34925 AU
asc. node	11258 Sep 03 10:23	19°♍01'30			11259 Aug 16 18:06	0°♍	
superior conj	11258 Sep 06 09:24	25°♍14'29	0°28'40	superior conj	11259 Aug 21 06:11	9°♍02'36	-0°00'24
minimum elong	11258 Sep 06 08:01	25°♍07'10	0°28'16	minimum elong	11259 Aug 21 06:13	9°♍02'48	0°00'42
	11258 Sep 08 14:50	0°♌		behind sun begin	11259 Aug 21 00:16	8°♍32'19	
evening rise	11258 Sep 13 12:34	10°♌31'07		behind sun end	11259 Aug 21 12:10	9°♍33'20	
	11258 Sep 23 12:11	0°♌		asc. node	11259 Aug 21 07:10	9°♍07'40	
evening max el	11258 Oct 04 17:04	15°♌12'42	22°12'31	evening rise	11259 Aug 28 21:18	24°♍55'08	
desc. node	11258 Oct 06 23:22	17°♌14'38			11259 Aug 31 08:42	0°♌	
retrograde	11258 Oct 17 12:08	21°♌34'39		evening max el	11259 Sep 16 14:30	25°♌42'58	20°42'29
evening set	11258 Oct 20 18:52	21°♌10'46			11259 Sep 22 08:49	0°♌	
min. Earth dist.	11258 Oct 28 22:58	17°♌34'00	0.54756 AU	desc. node	11259 Sep 23 20:43	0°♌38'03	
inferior conj	11258 Oct 29 14:47	17°♌11'46	-5°34'51	retrograde	11259 Sep 27 23:37	1°♌21'47	
minimum elong	11258 Oct 29 08:53	17°♌20'04	5°33'42	evening set	11259 Sep 30 04:30	1°♌10'00	
morning rise	11258 Nov 07 00:22	13°♌24'43			11259 Oct 03 23:52	30°♌♌	
direct	11258 Nov 10 09:47	12°♌59'05		inferior conj	11259 Oct 09 06:57	27°♌14'38	-4°26'09
morning max el	11258 Nov 22 08:07	18°♌38'04	21°32'49	minimum elong	11259 Oct 08 20:58	27°♌28'56	4°23'08
asc. node	11258 Nov 30 11:06	28°♌40'28		min. Earth dist.	11259 Oct 10 06:56	26°♌40'12	0.54657 AU
	11258 Dec 01 07:39	0°♌		morning rise	11259 Oct 17 13:17	23°♌16'50	
morning set	11258 Dec 12 18:20	21°♌30'39		direct	11259 Oct 21 18:09	22°♌38'53	
	11258 Dec 16 18:52	0°♌		morning max el	11259 Nov 03 22:42	29°♌01'25	23°17'11
superior conj	11258 Dec 19 23:21	6°♌42'21	1°31'49		11259 Nov 04 22:50	0°♌	
minimum elong	11258 Dec 20 01:08	6°♌51'37	1°32'21	asc. node	11259 Nov 17 08:02	16°♌58'57	
max. Earth dist.	11258 Dec 24 07:36	15°♌35'33	1.34934 AU		11259 Nov 24 05:15	0°♌	
evening rise	11258 Dec 28 11:53	23°♌44'28		morning set	11259 Nov 27 05:53	6°♌18'51	
	11258 Dec 31 20:49	0°♌		superior conj	11259 Dec 04 04:06	21°♌16'09	1°38'28
desc. node	11259 Jan 02 21:43	3°♌38'39		minimum elong	11259 Dec 04 04:43	21°♌19'27	1°39'06
	11259 Jan 19 17:19	0°♌		max. Earth dist.	11259 Dec 07 02:34	27°♌31'31	1.33349 AU
evening max el	11259 Feb 01 17:26	15°♌29'07	26°40'56		11259 Dec 08 06:58	0°♌	
retrograde	11259 Feb 14 19:53	22°♌50'29		evening rise	11259 Dec 11 22:17	7°♌23'45	
evening set	11259 Feb 21 06:16	20°♌17'31		desc. node	11259 Dec 20 18:42	23°♌51'31	
min. Earth dist.	11259 Feb 25 07:39	16°♌12'10	0.66220 AU		11259 Dec 24 10:07	0°♌	
asc. node	11259 Feb 26 09:37	14°♌55'40		evening max el	11260 Jan 15 06:38	28°♌59'22	27°19'59
inferior conj	11259 Feb 27 06:01	13°♌54'57	0°16'34		11260 Jan 16 08:40	0°♌	
minimum elong	11259 Feb 27 05:34	13°♌56'18	0°16'39	retrograde	11260 Jan 28 20:07	6°♌23'34	
morning rise	11259 Mar 05 05:58	8°♌15'16		evening set	11260 Feb 04 15:07	3°♌51'26	
direct	11259 Mar 08 04:23	7°♌27'29		min. Earth dist.	11260 Feb 08 11:48	0°♌18'23	0.64644 AU
morning max el	11259 Mar 14 15:19	10°♌53'22	18°18'21		11260 Feb 08 18:45	30°♌♌	
	11259 Mar 28 08:03	0°♌		inferior conj	11260 Feb 10 21:42	27°♌41'59	-0°47'10
desc. node	11259 Mar 31 22:44	5°♌45'12		minimum elong	11260 Feb 10 23:08	27°♌38'07	0°46'09
morning set	11259 Apr 03 05:56	9°♌25'47		asc. node	11260 Feb 13 06:53	25°♌13'45	
	11259 Apr 16 05:31	0°♌		morning rise	11260 Feb 17 08:54	22°♌15'28	
superior conj	11259 Apr 18 18:43	3°♌59'39	-1°50'04	direct	11260 Feb 19 22:34	21°♌41'16	
minimum elong	11259 Apr 18 09:32	3°♌23'43	1°49'38	morning max el	11260 Feb 26 08:03	25°♌01'12	17°53'50
max. Earth dist.	11259 Apr 19 23:34	5°♌52'27	1.45699 AU		11260 Mar 01 12:18	0°♌	
evening rise	11259 May 04 18:09	28°♌57'11		morning set	11260 Mar 14 15:52	20°♌55'59	
	11259 May 05 10:12	0°♌		desc. node	11260 Mar 17 19:25	26°♌10'28	
greatest brilliancy	11259 May 15 10:38	15°♌35'21	-0.8m		11260 Mar 20 02:57	0°♌	
asc. node	11259 May 25 07:19	29°♌31'20		superior conj	11260 Mar 28 09:58	13°♌27'16	-1°14'04
	11259 May 25 16:56	0°♌		minimum elong	11260 Mar 28 02:05	12°♌55'45	1°13'12
evening max el	11259 May 27 18:27	2°♌15'27	19°04'30	max. Earth dist.	11260 Apr 01 19:04	20°♌24'00	1.45270 AU
retrograde	11259 Jun 03 15:05	6°♌04'25			11260 Apr 07 22:36	0°♌	
evening set	11259 Jun 07 02:11	4°♌54'51		evening rise	11260 Apr 13 09:07	8°♌23'07	
	11259 Jun 11 21:32	30°♌♌			11260 Apr 27 17:05	0°♌	
inferior conj	11259 Jun 12 13:43	29°♌08'27	3°13'31	greatest brilliancy	11260 Apr 28 05:04	0°♌43'44	-0.6m
minimum elong	11259 Jun 12 14:30	29°♌05'55	3°12'47	evening max el	11260 May 09 23:23	15°♌59'09	19°57'55
min. Earth dist.	11259 Jun 14 03:32	27°♌07'20	0.66461 AU	asc. node	11260 May 11 04:30	17°♌08'46	
morning rise	11259 Jun 18 02:13	22°♌46'33		retrograde	11260 May 17 13:25	20°♌19'45	
direct	11259 Jun 24 08:14	20°♌03'56		evening set	11260 May 21 09:39	18°♌54'07	
desc. node	11259 Jun 27 23:08	20°♌49'48		inferior conj	11260 May 26 17:22	12°♌54'05	3°15'53

minimum elong	11260 May 26 17:02	12° Π 55'12	3°15'15	min. Earth dist.	11261 May 11 10:22	26° \mathcal{B} 17'29	0.68425 AU
min. Earth dist.	11260 May 27 16:39	11° Π 35'32	0.67676 AU	morning rise	11261 May 16 04:34	20° \mathcal{B} 34'37	
morning rise	11260 Jun 01 00:05	6° Π 33'56		direct	11261 May 21 10:50	18° \mathcal{B} 15'57	
direct	11260 Jun 06 19:09	3° Π 59'37		desc. node	11261 May 31 17:09	24° \mathcal{B} 16'12	
desc. node	11260 Jun 13 20:11	6° Π 52'01		morning max el	11261 May 31 23:27	24° \mathcal{B} 31'59	23°25'36
morning max el	11260 Jun 18 13:36	11° Π 03'19	24°54'43		11261 Jun 05 21:01	0° Π	
	11260 Jul 03 16:01	0° \mathcal{E}			11261 Jun 27 02:29	0° \mathcal{E}	
	11260 Jul 22 15:19	0° \mathcal{O}		morning set	11261 Jul 05 21:38	14° \mathcal{E} 16'06	
morning set	11260 Jul 24 11:20	3° \mathcal{O} 13'12		max. Earth dist.	11261 Jul 09 22:35	21° \mathcal{E} 11'08	1.39267 AU
max. Earth dist.	11260 Jul 28 01:16	9° \mathcal{O} 41'07	1.36981 AU		11261 Jul 14 21:22	0° \mathcal{O}	
superior conj	11260 Aug 03 16:49	22° \mathcal{O} 19'11	-0°32'48	superior conj	11261 Jul 17 13:32	4° \mathcal{O} 55'12	-1°06'33
minimum elong	11260 Aug 03 18:57	22° \mathcal{O} 29'38	0°32'52	minimum elong	11261 Jul 17 18:07	5° \mathcal{O} 16'35	1°06'23
asc. node	11260 Aug 07 03:58	29° \mathcal{O} 11'29		asc. node	11261 Jul 25 00:48	19° \mathcal{O} 09'28	
	11260 Aug 07 13:38	0° \mathcal{P}		evening rise	11261 Jul 26 22:09	22° \mathcal{O} 49'06	
evening rise	11260 Aug 12 01:27	9° \mathcal{P} 03'32			11261 Jul 30 16:11	0° \mathcal{P}	
	11260 Aug 23 12:47	0° \mathcal{A}		evening max el	11261 Aug 12 01:18	18° \mathcal{P} 57'48	18°41'49
evening max el	11260 Aug 29 01:43	6° \mathcal{A} 57'24	19°31'27	retrograde	11261 Aug 20 05:47	23° \mathcal{P} 03'50	
retrograde	11260 Sep 07 18:00	11° \mathcal{A} 46'14		evening set	11261 Aug 22 04:51	22° \mathcal{P} 50'32	
evening set	11260 Sep 09 14:23	11° \mathcal{A} 36'28		desc. node	11261 Aug 27 15:26	20° \mathcal{P} 16'42	
desc. node	11260 Sep 09 18:06	11° \mathcal{A} 34'48		inferior conj	11261 Aug 30 05:16	18° \mathcal{P} 26'29	-0°48'11
inferior conj	11260 Sep 18 08:23	7° \mathcal{A} 31'10	-2°39'36	minimum elong	11261 Aug 30 03:18	18° \mathcal{P} 30'09	0°47'36
minimum elong	11260 Sep 18 01:20	7° \mathcal{A} 42'25	2°36'56	min. Earth dist.	11261 Sep 02 09:12	16° \mathcal{P} 06'18	0.57131 AU
min. Earth dist.	11260 Sep 20 17:37	6° \mathcal{A} 00'13	0.55505 AU	morning rise	11261 Sep 06 22:22	13° \mathcal{P} 22'00	
morning rise	11260 Sep 26 10:04	3° \mathcal{A} 04'20		direct	11261 Sep 12 17:11	11° \mathcal{P} 59'53	
direct	11260 Oct 01 10:52	2° \mathcal{A} 07'38		morning max el	11261 Sep 27 00:12	19° \mathcal{P} 27'22	26°34'43
morning max el	11260 Oct 15 09:30	9° \mathcal{A} 06'40	25°03'47		11261 Oct 05 23:26	0° \mathcal{A}	
	11260 Oct 30 22:05	0° \mathcal{M}		asc. node	11261 Oct 21 01:43	25° \mathcal{A} 14'27	
asc. node	11260 Nov 03 04:54	5° \mathcal{M} 53'19			11261 Oct 23 10:34	0° \mathcal{M}	
morning set	11260 Nov 10 17:38	21° \mathcal{M} 04'07		morning set	11261 Oct 26 03:55	5° \mathcal{M} 42'02	
	11260 Nov 14 20:00	0° \mathcal{X}					
superior conj	11260 Nov 17 13:10	5° \mathcal{X} 59'20	1°38'45	superior conj	11261 Nov 02 00:28	20° \mathcal{M} 45'51	1°33'07
minimum elong	11260 Nov 17 12:39	5° \mathcal{X} 56'29	1°39'20	minimum elong	11261 Nov 01 23:01	20° \mathcal{M} 37'46	1°33'30
max. Earth dist.	11260 Nov 19 05:09	9° \mathcal{X} 38'30	1.32215 AU	max. Earth dist.	11261 Nov 02 12:51	21° \mathcal{M} 54'43	1.31560 AU
evening rise	11260 Nov 24 18:27	21° \mathcal{X} 27'11		evening rise	11261 Nov 06 04:52	0° \mathcal{X}	
	11260 Nov 29 01:22	0° \mathcal{Z}			11261 Nov 08 21:39	5° \mathcal{X} 47'38	
desc. node	11260 Dec 06 15:44	13° \mathcal{Z} 43'22		desc. node	11261 Nov 21 15:32	0° \mathcal{Z}	
	11260 Dec 17 08:56	0° \mathcal{A}		evening max el	11261 Nov 23 12:50	3° \mathcal{Z} 05'41	
evening max el	11260 Dec 27 17:45	12° \mathcal{A} 02'05	27°31'20		11261 Dec 10 00:05	24° \mathcal{Z} 23'48	27°09'50
retrograde	11261 Jan 10 13:06	19° \mathcal{A} 21'40		retrograde	11261 Dec 17 15:51	0° \mathcal{A}	
evening set	11261 Jan 17 12:46	16° \mathcal{A} 58'02			11261 Dec 23 21:49	1° \mathcal{A} 35'59	
min. Earth dist.	11261 Jan 21 06:33	13° \mathcal{A} 53'34	0.62767 AU	evening set	11261 Dec 29 22:08	30° \mathcal{R} \mathcal{Z}	
inferior conj	11261 Jan 24 02:45	11° \mathcal{A} 08'48	-1°59'13	min. Earth dist.	11261 Dec 30 19:52	29° \mathcal{Z} 29'26	
minimum elong	11261 Jan 24 06:43	10° \mathcal{A} 59'11	1°57'05	inferior conj	11262 Jan 03 14:33	26° \mathcal{Z} 46'11	0.60685 AU
asc. node	11261 Jan 30 04:08	6° \mathcal{A} 22'27		minimum elong	11262 Jan 06 17:47	24° \mathcal{Z} 06'28	-3°16'21
morning rise	11261 Jan 31 03:01	5° \mathcal{A} 58'34		morning rise	11262 Jan 07 00:28	23° \mathcal{Z} 52'15	3°13'20
direct	11261 Feb 02 10:02	5° \mathcal{A} 34'08		direct	11262 Jan 14 07:47	19° \mathcal{Z} 15'55	
morning max el	11261 Feb 09 01:36	8° \mathcal{A} 58'05	17°46'51	asc. node	11262 Jan 16 10:54	18° \mathcal{Z} 57'43	
	11261 Feb 23 00:52	0° \mathcal{H}		morning max el	11262 Jan 17 01:19	18° \mathcal{Z} 59'13	
morning set	11261 Feb 25 02:24	3° \mathcal{H} 36'49			11262 Jan 23 16:40	22° \mathcal{Z} 35'12	17°58'21
desc. node	11261 Mar 04 16:06	16° \mathcal{H} 44'37		morning set	11262 Jan 29 11:17	0° \mathcal{A}	
					11262 Feb 08 07:03	17° \mathcal{A} 08'11	
					11262 Feb 15 08:18	0° \mathcal{H}	
superior conj	11261 Mar 08 22:57	23° \mathcal{H} 58'02	-0°32'08	superior conj	11262 Feb 18 12:46	5° \mathcal{H} 39'01	0°07'44
minimum elong	11261 Mar 08 19:43	23° \mathcal{H} 44'33	0°31'31	minimum elong	11262 Feb 18 13:26	5° \mathcal{H} 41'58	0°07'58
	11261 Mar 12 14:50	0° \mathcal{Y}		behind sun begin	11262 Feb 18 06:24	5° \mathcal{H} 11'07	
max. Earth dist.	11261 Mar 15 12:44	4° \mathcal{Y} 42'38	1.44145 AU	behind sun end	11262 Feb 18 20:28	6° \mathcal{H} 12'45	
evening rise	11261 Mar 23 21:19	17° \mathcal{Y} 51'06		desc. node	11262 Feb 19 12:46	7° \mathcal{H} 23'51	
	11261 Mar 31 21:25	0° \mathcal{B}		max. Earth dist.	11262 Feb 26 02:21	18° \mathcal{H} 32'17	1.42445 AU
evening max el	11261 Apr 22 22:37	29° \mathcal{B} 44'00	21°04'46	evening rise	11262 Mar 03 21:17	27° \mathcal{H} 55'16	
	11261 Apr 23 05:01	0° Π			11262 Mar 05 04:51	0° \mathcal{Y}	
asc. node	11261 Apr 28 01:42	3° Π 47'47			11262 Mar 25 14:10	0° \mathcal{B}	
retrograde	11261 May 01 12:04	4° Π 44'25		evening max el	11262 Apr 05 16:41	13° \mathcal{B} 29'23	22°21'05
evening set	11261 May 05 18:17	3° Π 02'45		asc. node	11262 Apr 14 22:57	19° \mathcal{B} 12'09	
	11261 May 08 16:16	30° \mathcal{R} \mathcal{B}		retrograde	11262 Apr 15 09:18	19° \mathcal{B} 13'03	
inferior conj	11261 May 11 00:47	26° \mathcal{B} 50'45	3°06'28	evening set	11262 Apr 20 02:24	17° \mathcal{B} 16'05	
minimum elong	11261 May 10 23:32	26° \mathcal{B} 55'07	3°05'46				

inferior conj	11262 Apr 25 09:53	10°♄54'23	2°46'35			11263 Apr 05 21:36	30°♄♂	
minimum elong	11262 Apr 25 07:58	11°♄01'01	2°45'48	min. Earth dist.		11263 Apr 09 03:16	25°♄55'30	0.68557 AU
min. Earth dist.	11262 Apr 25 06:36	11°♄05'48	0.68713 AU	inferior conj		11263 Apr 09 18:46	25°♄02'27	2°16'57
morning rise	11262 Apr 30 13:25	4°♄43'40		minimum elong		11263 Apr 09 16:36	25°♄09'54	2°16'08
direct	11262 May 05 06:15	2°♄44'58		morning rise		11263 Apr 15 00:43	18°♄58'16	
morning max el	11262 May 14 12:04	8°♄09'00	21°57'21	direct		11263 Apr 19 04:25	17°♄21'05	
desc. node	11262 May 18 14:01	12°♄39'42		morning max el		11263 Apr 27 06:33	21°♄57'22	20°37'28
	11262 May 31 10:48	0°♄				11263 May 04 02:39	0°♄	
morning set	11262 Jun 16 06:03	24°♄08'22		desc. node		11263 May 05 10:49	1°♄46'50	
	11262 Jun 19 20:44	0°♄				11263 May 24 16:30	0°♄	
max. Earth dist.	11262 Jun 21 22:54	3°♄27'31	1.41517 AU	morning set		11263 May 26 14:36	2°♄58'11	
				max. Earth dist.		11263 Jun 04 05:21	16°♄35'22	1.43464 AU
superior conj	11262 Jun 29 15:45	16°♄39'14	-1°38'15					
minimum elong	11262 Jun 29 22:13	17°♄07'42	1°38'10	superior conj		11263 Jun 10 19:23	27°♄23'21	-2°02'41
	11262 Jul 07 01:23	0°♄		minimum elong		11263 Jun 11 01:08	27°♄47'23	2°03'01
evening rise	11262 Jul 10 07:41	6°♄01'26				11263 Jun 12 08:45	0°♄	
asc. node	11262 Jul 11 21:39	8°♄56'44		evening rise		11263 Jun 23 01:36	18°♄29'50	
	11262 Jul 24 21:53	0°♄		asc. node		11263 Jun 28 18:34	28°♄28'46	
evening max el	11262 Jul 26 09:27	1°♄35'43	18°13'05			11263 Jun 29 15:54	0°♄	
retrograde	11262 Aug 02 12:33	5°♄12'23		evening max el		11263 Jul 09 22:14	14°♄41'44	18°03'59
evening set	11262 Aug 04 18:33	4°♄51'25		retrograde		11263 Jul 16 11:01	18°♄03'49	
inferior conj	11262 Aug 11 23:54	0°♄06'54	0°45'35	evening set		11263 Jul 19 01:00	17°♄31'45	
minimum elong	11262 Aug 12 01:22	0°♄03'42	0°44'39	inferior conj		11263 Jul 25 13:47	12°♄27'49	1°54'33
	11262 Aug 12 03:04	30°♄♄		minimum elong		11263 Jul 25 16:28	12°♄21'07	1°53'12
desc. node	11262 Aug 14 12:45	27°♄54'23		min. Earth dist.		11263 Jul 28 15:24	9°♄25'01	0.61518 AU
min. Earth dist.	11262 Aug 15 07:57	27°♄14'06	0.59239 AU	morning rise		11263 Aug 01 05:25	6°♄25'51	
morning rise	11262 Aug 19 04:50	24°♄28'28		desc. node		11263 Aug 01 10:02	6°♄18'03	
direct	11262 Aug 25 13:21	22°♄37'12		direct		11263 Aug 07 21:17	4°♄08'05	
	11262 Sep 08 11:27	0°♄		morning max el		11263 Aug 22 02:31	12°♄08'46	27°57'28
morning max el	11262 Sep 08 22:05	0°♄25'46	27°35'05			11263 Sep 05 05:47	0°♄	
	11262 Sep 30 02:07	0°♄				11263 Sep 22 10:34	0°♄	
asc. node	11262 Oct 07 22:29	14°♄54'40		morning set		11263 Sep 24 12:58	4°♄15'45	
morning set	11262 Oct 10 11:01	20°♄07'46		asc. node		11263 Sep 24 19:13	4°♄47'57	
	11262 Oct 15 00:37	0°♄		max. Earth dist.		11263 Sep 30 04:54	16°♄18'54	1.31722 AU
max. Earth dist.	11262 Oct 16 22:02	4°♄11'41	1.31391 AU					
superior conj	11262 Oct 17 12:07	5°♄30'03	1°21'53	superior conj		11263 Oct 01 22:18	20°♄06'09	1°05'16
minimum elong	11262 Oct 17 10:03	5°♄18'33	1°21'59	minimum elong		11263 Oct 01 20:04	19°♄53'48	1°05'04
evening rise	11262 Oct 24 05:34	20°♄18'51				11263 Oct 06 09:54	0°♄	
	11262 Oct 28 21:45	0°♄		evening rise		11263 Oct 08 16:09	4°♄55'00	
desc. node	11262 Nov 10 10:01	21°♄47'04				11263 Oct 21 18:52	0°♄	
	11262 Nov 16 12:01	0°♄		desc. node		11263 Oct 28 07:16	9°♄31'07	
evening max el	11262 Nov 21 23:00	5°♄54'56	26°14'14	evening max el		11263 Nov 03 13:50	16°♄36'03	24°49'51
retrograde	11262 Dec 05 21:14	12°♄59'43		retrograde		11263 Nov 17 09:16	23°♄31'26	
evening set	11262 Dec 12 08:14	11°♄19'21		evening set		11263 Nov 22 21:20	22°♄23'43	
min. Earth dist.	11262 Dec 16 12:11	8°♄44'10	0.58559 AU	min. Earth dist.		11263 Nov 28 01:33	19°♄38'49	0.56641 AU
inferior conj	11262 Dec 19 15:18	6°♄25'28	-4°31'00	inferior conj		11263 Nov 30 16:36	17°♄57'14	-5°28'47
minimum elong	11262 Dec 19 23:30	6°♄10'16	4°28'06	minimum elong		11263 Nov 30 22:42	17°♄47'23	5°27'15
morning rise	11262 Dec 27 17:29	1°♄57'09		morning rise		11263 Dec 09 02:17	13°♄50'36	
direct	11262 Dec 29 20:48	1°♄41'48		direct		11263 Dec 11 11:59	13°♄34'28	
asc. node	11263 Jan 03 22:27	3°♄13'39		morning max el		11263 Dec 21 00:19	18°♄08'10	19°23'08
morning max el	11263 Jan 07 01:34	5°♄42'33	18°29'51	asc. node		11263 Dec 21 19:31	18°♄56'11	
	11263 Jan 22 08:59	0°♄				11263 Dec 29 18:38	0°♄	
morning set	11263 Jan 23 00:24	1°♄14'04		morning set		11264 Jan 07 02:18	15°♄34'33	
						11264 Jan 14 06:17	0°♄	
superior conj	11263 Feb 01 00:14	18°♄20'46	0°41'13	superior conj		11264 Jan 15 04:22	1°♄48'06	1°06'56
minimum elong	11263 Feb 01 02:52	18°♄32'56	0°41'18	minimum elong		11264 Jan 15 07:21	2°♄02'38	1°07'09
desc. node	11263 Feb 06 09:30	28°♄04'51		max. Earth dist.		11264 Jan 21 16:50	14°♄06'56	1.38146 AU
	11263 Feb 07 11:46	0°♄		desc. node		11264 Jan 24 06:17	18°♄43'17	
max. Earth dist.	11263 Feb 08 10:56	1°♄40'31	1.40364 AU	evening rise		11264 Jan 25 10:36	20°♄47'57	
evening rise	11263 Feb 12 17:19	8°♄54'07				11264 Jan 30 20:39	0°♄	
	11263 Feb 26 04:41	0°♄				11264 Feb 20 05:23	0°♄	
evening max el	11263 Mar 19 07:25	27°♄17'29	23°41'32	evening max el		11264 Feb 29 20:56	11°♄08'00	24°59'47
	11263 Mar 22 06:22	0°♄		retrograde		11264 Mar 12 18:22	18°♄02'50	
retrograde	11263 Mar 30 03:50	3°♄41'19		evening set		11264 Mar 18 10:57	15°♄40'42	
asc. node	11263 Apr 01 20:13	3°♄07'33		asc. node		11264 Mar 18 17:32	15°♄26'25	
evening set	11263 Apr 04 08:29	1°♄30'34		min. Earth dist.		11264 Mar 22 22:08	10°♄40'47	0.67969 AU

inferior conj	11264 Mar 24 01:34	9° Υ 10'32	1°37'47		11265 Mar 01 22:44	30° \mathbb{R} \mathbb{H}	
minimum elong	11264 Mar 23 23:36	9° Υ 17'03	1°37'05	evening set	11265 Mar 02 08:09	29° \mathbb{H} 41'14	
morning rise	11264 Mar 29 12:31	3° Υ 14'18		asc. node	11265 Mar 05 14:51	26° \mathbb{H} 22'07	
direct	11264 Apr 02 03:56	1° Υ 58'03		min. Earth dist.	11265 Mar 06 12:56	25° \mathbb{H} 16'11	0.66975 AU
morning max el	11264 Apr 09 08:41	5° Υ 56'54	19°30'52	inferior conj	11265 Mar 08 04:19	23° \mathbb{H} 14'22	0°49'02
desc. node	11264 Apr 21 07:34	21° Υ 25'23		minimum elong	11265 Mar 08 03:07	23° \mathbb{H} 18'06	0°48'43
greatest brilliancy	11264 Apr 22 01:23	22° Υ 30'46	-0.7m	morning rise	11265 Mar 13 22:48	17° \mathbb{H} 27'55	
	11264 Apr 27 01:35	0° \mathbb{B}		direct	11265 Mar 17 03:06	16° \mathbb{H} 30'30	
morning set	11264 May 04 14:09	11° \mathbb{B} 29'21		morning max el	11265 Mar 23 18:08	20° \mathbb{H} 04'35	18°40'01
	11264 May 16 11:28	0° \mathbb{H}			11265 Mar 31 14:59	0° Υ	
max. Earth dist.	11264 May 16 18:36	0° \mathbb{H} 28'06	1.44881 AU	desc. node	11265 Apr 08 04:16	11° Υ 26'46	
				morning set	11265 Apr 14 03:49	20° Υ 47'42	
superior conj	11264 May 20 23:07	7° \mathbb{H} 07'31	-2°13'12		11265 Apr 20 00:54	0° \mathbb{B}	
minimum elong	11264 May 20 23:37	7° \mathbb{H} 09'31	2°13'48	max. Earth dist.	11265 Apr 29 12:52	14° \mathbb{B} 50'53	1.45619 AU
evening rise	11264 Jun 03 23:00	0° \mathbb{B} 03'35					
	11264 Jun 03 22:08	0° \mathbb{B}		superior conj	11265 Apr 30 09:05	16° \mathbb{B} 10'00	-2°04'14
asc. node	11264 Jun 14 15:34	17° \mathbb{B} 39'58		minimum elong	11265 Apr 30 02:13	15° \mathbb{B} 43'08	2°04'19
evening max el	11264 Jun 22 12:11	28° \mathbb{B} 07'11	18°13'32		11265 May 09 04:11	0° \mathbb{H}	
	11264 Jun 24 17:27	0° \mathbb{Q}		evening rise	11265 May 15 20:27	10° \mathbb{H} 37'16	
retrograde	11264 Jun 28 20:48	1° \mathbb{Q} 29'00		greatest brilliancy	11265 May 23 07:58	22° \mathbb{H} 33'34	-0.9m
evening set	11264 Jul 01 18:55	0° \mathbb{Q} 43'20			11265 May 28 02:41	0° \mathbb{B}	
	11264 Jul 02 23:24	30° \mathbb{R} \mathbb{B}		asc. node	11265 Jun 01 12:39	6° \mathbb{B} 22'38	
inferior conj	11264 Jul 07 18:56	25° \mathbb{B} 21'38	2°40'02	evening max el	11265 Jun 06 00:17	11° \mathbb{B} 43'52	18°41'00
minimum elong	11264 Jul 07 21:20	25° \mathbb{B} 14'52	2°38'53	retrograde	11265 Jun 12 14:01	15° \mathbb{B} 19'08	
min. Earth dist.	11264 Jul 10 08:04	22° \mathbb{B} 30'46	0.63691 AU	evening set	11265 Jun 15 20:19	14° \mathbb{B} 18'21	
morning rise	11264 Jul 13 22:14	19° \mathbb{B} 06'24		inferior conj	11265 Jun 21 11:23	8° \mathbb{B} 40'23	3°05'59
desc. node	11264 Jul 18 07:16	16° \mathbb{B} 48'36		minimum elong	11265 Jun 21 12:50	8° \mathbb{B} 35'55	3°05'07
direct	11264 Jul 20 14:36	16° \mathbb{B} 30'46		min. Earth dist.	11265 Jun 23 09:43	6° \mathbb{B} 18'10	0.65566 AU
morning max el	11264 Aug 03 11:21	24° \mathbb{B} 32'44	27°42'07	morning rise	11265 Jun 27 04:32	2° \mathbb{B} 19'31	
	11264 Aug 08 09:45	0° \mathbb{Q}			11265 Jul 01 03:36	30° \mathbb{R} \mathbb{H}	
	11264 Aug 28 16:02	0° \mathbb{H}		direct	11265 Jul 03 15:34	29° \mathbb{H} 36'35	
morning set	11264 Sep 07 07:31	17° \mathbb{H} 59'58		desc. node	11265 Jul 05 04:27	29° \mathbb{H} 44'48	
asc. node	11264 Sep 10 15:58	24° \mathbb{H} 49'30			11265 Jul 06 06:33	0° \mathbb{B}	
max. Earth dist.	11264 Sep 12 05:45	28° \mathbb{H} 07'22	1.32568 AU	morning max el	11265 Jul 16 22:04	7° \mathbb{B} 27'32	26°54'27
	11264 Sep 13 03:00	0° \mathbb{B}			11265 Aug 03 08:58	0° \mathbb{Q}	
					11265 Aug 21 00:30	0° \mathbb{H}	
superior conj	11264 Sep 15 05:07	4° \mathbb{B} 28'42	0°43'28	morning set	11265 Aug 21 15:40	1° \mathbb{H} 12'16	
minimum elong	11264 Sep 15 03:14	4° \mathbb{B} 18'33	0°43'05	max. Earth dist.	11265 Aug 25 21:25	9° \mathbb{H} 31'51	1.33931 AU
evening rise	11264 Sep 22 03:33	19° \mathbb{B} 30'56		asc. node	11265 Aug 28 12:43	14° \mathbb{H} 54'36	
	11264 Sep 27 05:15	0° \mathbb{H}					
desc. node	11264 Oct 14 04:34	25° \mathbb{H} 56'09		superior conj	11265 Aug 30 06:15	18° \mathbb{H} 30'41	0°16'51
evening max el	11264 Oct 15 00:26	26° \mathbb{H} 45'39	23°10'06	minimum elong	11265 Aug 30 05:23	18° \mathbb{H} 26'10	0°16'28
	11264 Oct 18 20:57	0° \mathbb{B}			11265 Sep 04 16:22	0° \mathbb{B}	
retrograde	11264 Oct 28 08:09	3° \mathbb{B} 23'30		evening rise	11265 Sep 06 13:51	4° \mathbb{B} 00'34	
evening set	11264 Nov 01 11:05	2° \mathbb{B} 46'35			11265 Sep 20 20:22	0° \mathbb{H}	
	11264 Nov 07 15:22	30° \mathbb{R} \mathbb{H}		evening max el	11265 Sep 26 15:15	6° \mathbb{H} 57'00	21°32'13
min. Earth dist.	11264 Nov 08 09:51	29° \mathbb{H} 33'44	0.55232 AU	desc. node	11265 Oct 01 01:55	10° \mathbb{H} 33'45	
inferior conj	11264 Nov 09 22:22	28° \mathbb{H} 40'53	-5°48'29	retrograde	11265 Oct 08 21:00	13° \mathbb{H} 02'04	
minimum elong	11264 Nov 09 21:18	28° \mathbb{H} 42'25	5°47'56	evening set	11265 Oct 11 15:05	12° \mathbb{H} 44'45	
morning rise	11264 Nov 18 09:12	24° \mathbb{H} 50'22		inferior conj	11265 Oct 20 15:32	8° \mathbb{H} 48'58	-5°12'11
direct	11264 Nov 21 08:43	24° \mathbb{H} 29'14		minimum elong	11265 Oct 20 06:58	9° \mathbb{H} 00'56	5°10'10
morning max el	11264 Dec 02 09:42	29° \mathbb{H} 43'10	20°39'18	min. Earth dist.	11265 Oct 20 16:35	8° \mathbb{H} 47'29	0.54601 AU
	11264 Dec 02 16:43	0° \mathbb{B}		morning rise	11265 Oct 28 23:51	5° \mathbb{H} 00'19	
asc. node	11264 Dec 07 16:33	5° \mathbb{B} 51'25		direct	11265 Nov 01 17:38	4° \mathbb{H} 30'01	
morning set	11264 Dec 21 09:44	0° \mathbb{B} 22'18		morning max el	11265 Nov 14 05:43	10° \mathbb{H} 27'18	22°15'57
	11264 Dec 21 05:24	0° \mathbb{B}		asc. node	11265 Nov 24 13:31	23° \mathbb{H} 42'52	
					11265 Nov 28 05:14	0° \mathbb{B}	
superior conj	11264 Dec 28 20:48	15° \mathbb{B} 48'57	1°24'50	morning set	11265 Dec 05 20:20	15° \mathbb{B} 09'06	
minimum elong	11264 Dec 28 23:10	16° \mathbb{B} 01'00	1°25'16				
max. Earth dist.	11265 Jan 03 01:03	26° \mathbb{B} 07'16	1.36036 AU	superior conj	11265 Dec 12 21:53	0° \mathbb{B} 12'44	1°35'26
	11265 Jan 05 01:44	0° \mathbb{B}		minimum elong	11265 Dec 12 23:11	0° \mathbb{B} 19'35	1°36'02
evening rise	11265 Jan 06 22:41	3° \mathbb{B} 29'52			11265 Dec 12 19:28	0° \mathbb{B}	
desc. node	11265 Jan 10 03:09	9° \mathbb{B} 15'26		max. Earth dist.	11265 Dec 16 15:37	8° \mathbb{B} 00'22	1.34212 AU
	11265 Jan 22 19:58	0° \mathbb{H}		evening rise	11265 Dec 21 01:55	16° \mathbb{B} 50'07	
evening max el	11265 Feb 11 10:32	24° \mathbb{H} 57'18	26°08'32	desc. node	11265 Dec 28 00:06	29° \mathbb{B} 36'43	
	11265 Feb 17 15:40	0° Υ			11265 Dec 28 05:25	0° \mathbb{B}	
retrograde	11265 Feb 24 03:51	2° Υ 11'27			11266 Jan 17 05:47	0° \mathbb{H}	

evening max el	11266 Jan 25 00:07	8° H 37'20	27°00'29	evening rise	11266 Dec 04 16:46	0° Z 39'43	
retrograde	11266 Feb 07 07:35	16° H 00'16		desc. node	11266 Dec 14 21:06	19° Z 41'09	
evening set	11266 Feb 13 22:10	13° H 26'48			11266 Dec 21 05:15	0° \approx	
min. Earth dist.	11266 Feb 17 21:25	9° H 35'41	0.65597 AU	evening max el	11267 Jan 07 12:28	21° \approx 56'27	27°28'32
inferior conj	11266 Feb 20 00:47	7° H 09'16	-0°09'19	retrograde	11267 Jan 21 04:53	29° \approx 19'46	
minimum elong	11266 Feb 20 01:02	7° H 08'32	0°08'53	evening set	11267 Jan 28 02:37	26° \approx 49'51	
transit middle	11266 Feb 20 01:02	7° H 08'32	0°08'53	min. Earth dist.	11267 Jan 31 21:36	23° \approx 29'59	0.63876 AU
transit begin	11266 Feb 19 22:33	7° H 15'38		inferior conj	11267 Feb 03 12:18	20° \approx 48'15	-1°16'50
transit end	11266 Feb 20 03:31	7° H 01'26		minimum elong	11267 Feb 03 14:44	20° \approx 41'56	1°15'21
asc. node	11266 Feb 20 12:09	6° H 36'54		asc. node	11267 Feb 07 09:25	17° \approx 09'45	
morning rise	11266 Feb 26 05:16	1° H 34'55		morning rise	11267 Feb 10 04:56	15° \approx 28'37	
direct	11266 Feb 28 23:50	0° H 53'15		direct	11267 Feb 12 15:28	14° \approx 59'04	
morning max el	11266 Mar 07 09:03	4° H 14'53	18°05'49	morning max el	11267 Feb 19 02:36	18° \approx 19'24	17°48'44
	11266 Mar 24 23:10	0° Y			11267 Feb 27 16:45	0° H	
morning set	11266 Mar 25 21:18	1° Y 29'58		morning set	11267 Mar 07 18:28	13° H 32'24	
desc. node	11266 Mar 26 00:58	1° Y 44'52		desc. node	11267 Mar 12 21:38	22° H 14'16	
					11267 Mar 17 13:35	0° Y	
superior conj	11266 Apr 09 17:11	25° Y 14'47	-1°36'08	superior conj	11267 Mar 20 16:46	5° Y 07'13	-0°56'29
minimum elong	11266 Apr 09 07:49	24° Y 37'52	1°35'25	minimum elong	11267 Mar 20 10:45	4° Y 42'48	0°55'38
max. Earth dist.	11266 Apr 12 09:05	29° Y 25'34	1.45609 AU	max. Earth dist.	11267 Mar 26 04:03	13° Y 53'20	1.44867 AU
	11266 Apr 12 17:53	0° Z		evening rise	11267 Apr 05 07:49	29° Y 42'19	
evening rise	11266 Apr 25 20:00	20° Z 20'44			11267 Apr 05 12:26	0° Z	
	11266 May 02 02:08	0° II			11267 Apr 25 21:22	0° II	
greatest brilliancy	11266 May 08 12:10	9° II 45'20	-0.7m	evening max el	11267 May 03 10:36	9° II 09'37	20°24'50
asc. node	11266 May 19 09:48	24° II 27'25		asc. node	11267 May 06 07:00	11° II 41'33	
evening max el	11266 May 20 08:13	25° II 26'05	19°25'21	retrograde	11267 May 11 10:09	13° II 46'54	
retrograde	11266 May 27 11:20	29° II 27'19		evening set	11267 May 15 10:27	12° II 14'27	
evening set	11266 May 31 02:16	28° II 10'45		inferior conj	11267 May 20 17:20	6° II 08'51	3°13'13
inferior conj	11266 Jun 05 11:48	22° II 18'07	3°16'06	minimum elong	11267 May 20 16:35	6° II 11'26	3°12'34
minimum elong	11266 Jun 05 12:06	22° II 17'07	3°15'25	min. Earth dist.	11267 May 21 10:40	5° II 09'28	0.68050 AU
min. Earth dist.	11266 Jun 06 19:14	20° II 34'49	0.67033 AU	morning rise	11267 May 25 22:27	29° Z 49'57	
morning rise	11266 Jun 10 21:31	15° II 56'36			11267 May 25 18:04	30° R Z	
direct	11266 Jun 16 23:02	13° II 16'48		direct	11267 May 31 12:06	27° Z 21'40	
desc. node	11266 Jun 22 01:31	14° II 47'40			11267 Jun 07 02:22	0° II	
morning max el	11266 Jun 29 08:44	20° II 42'20	25°42'53	desc. node	11267 Jun 08 22:30	1° II 27'24	
	11266 Jul 07 08:53	0° Z		morning max el	11267 Jun 11 18:33	4° II 06'56	24°17'11
	11266 Jul 27 13:06	0° O			11267 Jul 01 15:02	0° Z	
morning set	11266 Aug 04 09:46	13° O 44'01		morning set	11267 Jul 17 09:08	25° Z 23'02	
max. Earth dist.	11266 Aug 08 02:57	20° O 39'28	1.35763 AU		11267 Jul 20 00:15	0° O	
	11266 Aug 12 21:57	0° P		max. Earth dist.	11267 Jul 21 00:58	1° O 50'23	1.37937 AU
superior conj	11266 Aug 13 23:05	2° P 05'51	-0°13'51	superior conj	11267 Jul 28 04:14	15° O 05'46	-0°47'08
minimum elong	11266 Aug 13 23:56	2° P 10'09	0°14'03	minimum elong	11267 Jul 28 07:24	15° O 20'58	0°47'05
behind sun begin	11266 Aug 13 20:52	1° P 54'42		asc. node	11267 Aug 02 06:19	25° O 01'32	
behind sun end	11266 Aug 14 03:00	2° P 25'36			11267 Aug 04 18:29	0° P	
asc. node	11266 Aug 15 09:30	4° P 59'56		evening rise	11267 Aug 05 22:17	2° P 17'55	
evening rise	11266 Aug 21 20:57	18° P 18'35		evening max el	11267 Aug 22 11:04	29° P 17'57	19°07'45
	11266 Aug 27 18:32	0° Q			11267 Aug 23 04:39	0° Q	
evening max el	11266 Sep 08 18:13	17° Q 43'26	20°09'33	retrograde	11267 Aug 31 11:19	3° Q 47'21	
desc. node	11266 Sep 17 23:15	22° Q 55'47		evening set	11267 Sep 02 07:43	3° Q 36'46	
retrograde	11266 Sep 19 10:09	23° Q 01'29		desc. node	11267 Sep 04 20:34	2° Q 50'38	
evening set	11266 Sep 21 09:26	22° Q 51'25			11267 Sep 09 21:45	30° R P	
inferior conj	11266 Sep 30 09:52	18° Q 52'52	-3°43'33	inferior conj	11267 Sep 10 18:53	29° P 24'22	-1°51'12
minimum elong	11266 Sep 30 00:30	19° Q 06'49	3°40'20	minimum elong	11267 Sep 10 14:02	29° P 32'36	1°49'22
min. Earth dist.	11266 Oct 02 01:15	17° Q 54'15	0.54907 AU	min. Earth dist.	11267 Sep 13 14:06	27° P 30'42	0.56110 AU
morning rise	11266 Oct 08 14:34	14° Q 44'34		morning rise	11267 Sep 18 17:21	24° P 41'18	
direct	11266 Oct 13 03:43	13° Q 59'48		direct	11267 Sep 24 02:05	23° P 34'25	
morning max el	11266 Oct 26 17:44	20° Q 38'37	24°03'28		11267 Oct 07 09:15	0° Q	
	11266 Nov 03 17:26	0° R		morning max el	11267 Oct 08 05:39	0° Q 47'32	25°45'28
asc. node	11266 Nov 11 10:24	12° R 17'13			11267 Oct 28 13:33	0° R	
morning set	11266 Nov 20 08:08	29° R 56'09		asc. node	11267 Oct 29 07:15	1° R 23'59	
	11266 Nov 20 08:51	0° S		morning set	11267 Nov 04 19:27	14° R 38'59	
superior conj	11266 Nov 27 04:42	14° S 50'50	1°39'20	superior conj	11267 Nov 11 14:59	29° R 36'34	1°37'04
minimum elong	11266 Nov 27 04:50	14° S 51'29	1°39'58	minimum elong	11267 Nov 11 14:02	29° R 31'19	1°37'35
max. Earth dist.	11266 Nov 29 13:57	19° S 59'57	1.32802 AU		11267 Nov 11 19:13	0° S	
	11266 Dec 04 08:55	0° Z					

max. Earth dist.	11267 Nov 12 18:53	2°♊10'43	1.31868 AU		11268 Oct 19 13:35	0°♍	
evening rise	11267 Nov 18 16:14	14°♊51'22					
	11267 Nov 26 09:28	0°♊		superior conj	11268 Oct 26 02:38	14°♍22'42	1°29'02
desc. node	11267 Dec 01 18:09	9°♊21'42		minimum elong	11268 Oct 26 00:53	14°♍12'54	1°29'18
	11267 Dec 16 09:46	0°♊		max. Earth dist.	11268 Oct 26 03:32	14°♍27'42	1.31425 AU
evening max el	11267 Dec 20 21:45	4°♊42'57	27°26'27	evening rise	11268 Nov 01 21:41	29°♍17'08	
retrograde	11268 Jan 03 18:49	12°♊00'33			11268 Nov 02 05:46	0°♊	
evening set	11268 Jan 10 18:36	9°♊42'56		desc. node	11268 Nov 17 15:16	28°♊27'58	
min. Earth dist.	11268 Jan 14 11:58	6°♊48'40	0.61891 AU		11268 Nov 18 15:10	0°♊	
inferior conj	11268 Jan 17 11:49	4°♊03'55	-2°31'39	evening max el	11268 Dec 02 01:21	16°♊44'19	26°50'21
minimum elong	11268 Jan 17 16:58	3°♊52'04	2°29'04	retrograde	11268 Dec 15 23:50	23°♊53'08	
	11268 Jan 22 14:44	30°♋		evening set	11268 Dec 22 18:14	21°♊57'06	
morning rise	11268 Jan 24 17:58	29°♊01'50		min. Earth dist.	11268 Dec 26 15:40	19°♊18'49	0.59770 AU
asc. node	11268 Jan 25 06:36	28°♊52'58		inferior conj	11268 Dec 29 19:48	16°♊46'12	-3°49'01
direct	11268 Jan 26 22:46	28°♊40'37		minimum elong	11268 Dec 30 03:24	16°♊30'56	3°45'53
	11268 Jan 31 03:30	0°♊		morning rise	11269 Jan 06 15:18	12°♊04'33	
morning max el	11268 Feb 02 19:34	2°♊09'27	17°49'25	direct	11269 Jan 08 17:50	11°♊48'00	
morning set	11268 Feb 18 13:29	26°♊37'03		asc. node	11269 Jan 11 03:46	12°♊10'45	
	11268 Feb 20 10:53	0°♋		morning max el	11269 Jan 16 08:24	15°♊34'36	18°09'09
desc. node	11268 Feb 27 18:21	12°♋51'09			11269 Jan 26 08:15	0°♊	
				morning set	11269 Feb 01 00:08	10°♊24'36	
superior conj	11268 Feb 29 16:31	16°♋08'42	-0°14'41				
minimum elong	11268 Feb 29 15:09	16°♋02'54	0°14'14	superior conj	11269 Feb 10 16:02	28°♊16'25	0°22'50
behind sun begin	11268 Feb 29 11:09	15°♋45'52		minimum elong	11269 Feb 10 17:46	28°♊24'13	0°22'57
behind sun end	11268 Feb 29 19:09	16°♋19'54			11269 Feb 11 15:12	0°♋	
max. Earth dist.	11268 Mar 07 19:36	27°♋59'14	1.43482 AU	desc. node	11269 Feb 13 15:04	3°♋31'17	
	11268 Mar 09 01:29	0°♌		max. Earth dist.	11269 Feb 18 06:57	11°♋31'39	1.41597 AU
evening rise	11268 Mar 14 23:33	9°♌22'21		evening rise	11269 Feb 23 07:32	19°♋48'50	
	11268 Mar 28 16:35	0°♌			11269 Mar 01 18:35	0°♌	
evening max el	11268 Apr 15 07:29	22°♌54'30	21°36'19		11269 Mar 23 01:37	0°♌	
asc. node	11268 Apr 22 04:12	27°♌50'43		evening max el	11269 Mar 29 00:04	6°♌41'40	22°55'13
retrograde	11268 Apr 24 08:24	28°♌13'31		retrograde	11269 Apr 08 04:34	12°♌42'37	
evening set	11268 Apr 28 19:03	26°♌25'28		asc. node	11269 Apr 09 01:27	12°♌39'00	
inferior conj	11268 May 04 01:44	20°♌09'02	2°59'14	evening set	11269 Apr 13 02:29	10°♌39'45	
minimum elong	11268 May 04 00:09	20°♌14'31	2°58'30	inferior conj	11269 Apr 18 10:59	4°♌15'07	2°35'11
min. Earth dist.	11268 May 04 05:50	19°♌54'42	0.68607 AU	minimum elong	11269 Apr 18 08:55	4°♌22'18	2°34'22
morning rise	11268 May 09 05:03	13°♌54'47		min. Earth dist.	11269 Apr 18 02:32	4°♌44'26	0.68705 AU
direct	11268 May 14 05:39	11°♌44'02			11269 Apr 21 17:32	30°♌	
morning max el	11268 May 24 05:03	17°♌38'20	22°47'17	morning rise	11269 Apr 23 15:13	28°♌07'02	
desc. node	11268 May 25 19:26	19°♌18'53		direct	11269 Apr 28 02:32	26°♌17'11	
	11268 Jun 03 11:21	0°♍			11269 May 05 10:11	0°♌	
	11268 Jun 23 16:58	0°♍		morning max el	11269 May 06 19:43	1°♌19'32	21°21'57
morning set	11268 Jun 27 08:43	5°♍56'18		desc. node	11269 May 12 16:18	8°♌02'43	
max. Earth dist.	11268 Jul 01 22:16	13°♍35'27	1.40245 AU		11269 May 28 06:52	0°♍	
				morning set	11269 Jun 07 06:10	15°♍19'29	
superior conj	11268 Jul 09 17:39	27°♍20'47	-1°20'32	max. Earth dist.	11269 Jun 14 01:19	26°♍15'34	1.42403 AU
minimum elong	11268 Jul 09 23:12	27°♍46'01	1°20'22		11269 Jun 16 07:38	0°♍	
	11268 Jul 11 04:30	0°♎					
asc. node	11268 Jul 19 03:09	14°♎55'10		superior conj	11269 Jun 21 10:49	8°♍41'04	-1°49'52
evening rise	11268 Jul 19 14:42	15°♎50'03		minimum elong	11269 Jun 21 17:26	9°♍09'33	1°49'56
	11268 Jul 27 07:45	0°♎		evening rise	11269 Jul 02 18:14	28°♍45'30	
evening max el	11268 Aug 04 14:52	11°♎35'46	18°27'12		11269 Jul 03 10:41	0°♎	
retrograde	11268 Aug 12 07:02	15°♎27'05		asc. node	11269 Jul 06 00:02	4°♎36'48	
evening set	11268 Aug 14 08:52	15°♎10'57		evening max el	11269 Jul 19 01:33	24°♎27'24	18°06'51
desc. node	11268 Aug 21 17:54	10°♎52'44		retrograde	11269 Jul 25 21:01	27°♎55'46	
inferior conj	11268 Aug 22 01:04	10°♎38'31	-0°05'31	evening set	11269 Jul 28 06:32	27°♎30'18	
minimum elong	11268 Aug 22 00:51	10°♎38'57	0°05'43	inferior conj	11269 Aug 04 04:23	22°♎37'08	1°17'53
transit middle	11268 Aug 22 00:51	10°♎38'57	0°05'43	minimum elong	11269 Aug 04 06:36	22°♎31'59	1°16'41
transit begin	11268 Aug 21 21:31	10°♎45'34		min. Earth dist.	11269 Aug 07 10:39	19°♎37'31	0.60211 AU
transit end	11268 Aug 22 04:11	10°♎32'20		desc. node	11269 Aug 08 15:12	18°♎37'04	
min. Earth dist.	11268 Aug 25 08:35	8°♎01'44	0.57988 AU	morning rise	11269 Aug 11 03:42	16°♎47'41	
morning rise	11268 Aug 29 13:19	5°♎18'46		direct	11269 Aug 17 16:18	14°♎44'35	
direct	11268 Sep 04 14:55	3°♎43'58		morning max el	11269 Aug 31 23:47	22°♎38'27	27°49'23
morning max el	11268 Sep 18 23:01	11°♎21'34	27°04'45		11269 Sep 07 12:21	0°♎	
	11268 Oct 03 11:00	0°♏			11269 Sep 26 14:25	0°♏	
asc. node	11268 Oct 15 04:02	20°♏53'52		asc. node	11269 Oct 02 00:48	10°♏40'17	
morning set	11268 Oct 19 04:33	29°♏11'56		morning set	11269 Oct 03 09:43	13°♏30'31	

max. Earth dist.	11269 Oct 09 12:21	26° Ω 42'19	1.31476 AU	asc. node	11270 Sep 18 21:34	0° Ω 37'33	
					11270 Sep 18 14:18	0° Ω	
superior conj	11269 Oct 10 13:53	29° Ω 03'54	1°15'29	max. Earth dist.	11270 Sep 22 17:19	8° Ω 43'24	1.32024 AU
minimum elong	11269 Oct 10 11:41	28° Ω 51'41	1°15'27				
	11269 Oct 10 23:59	0° \mathbb{M}		superior conj	11270 Sep 24 22:53	13° Ω 34'38	0°56'37
evening rise	11269 Oct 17 07:00	13° \mathbb{M} 51'13		minimum elong	11270 Sep 24 20:44	13° Ω 22'49	0°56'20
	11269 Oct 25 07:02	0° \mathcal{A}		evening rise	11270 Oct 01 18:11	28° Ω 27'50	
desc. node	11269 Nov 04 12:28	16° \mathcal{A} 46'50			11270 Oct 02 11:24	0° \mathbb{M}	
evening max el	11269 Nov 13 20:54	27° \mathcal{A} 53'27	25°41'14		11270 Oct 19 06:41	0° \mathcal{A}	
	11269 Nov 16 06:22	0° \mathcal{B}		desc. node	11270 Oct 22 09:44	4° \mathcal{A} 00'13	
retrograde	11269 Nov 27 18:08	4° \mathcal{B} 53'41		evening max el	11270 Oct 26 08:57	8° \mathcal{A} 16'56	24°08'10
evening set	11269 Dec 03 21:04	3° \mathcal{B} 26'50		retrograde	11270 Nov 09 00:35	15° \mathcal{A} 06'41	
min. Earth dist.	11269 Dec 08 09:18	0° \mathcal{B} 49'57	0.57707 AU	evening set	11270 Nov 13 23:44	14° \mathcal{A} 12'35	
	11269 Dec 09 14:26	30° \mathcal{R} \mathcal{A}		min. Earth dist.	11270 Nov 19 19:45	11° \mathcal{A} 18'07	0.55961 AU
inferior conj	11269 Dec 11 08:54	28° \mathcal{A} 45'34	-4°58'42	inferior conj	11270 Nov 22 01:28	9° \mathcal{A} 56'01	-5°43'07
minimum elong	11269 Dec 11 16:49	28° \mathcal{A} 31'47	4°56'16	minimum elong	11270 Nov 22 05:04	9° \mathcal{A} 50'30	5°42'14
morning rise	11269 Dec 19 14:59	24° \mathcal{A} 26'30		morning rise	11270 Nov 30 12:27	5° \mathcal{A} 57'51	
direct	11269 Dec 21 20:21	24° \mathcal{A} 11'09		direct	11270 Dec 03 03:16	5° \mathcal{A} 40'08	
asc. node	11269 Dec 29 00:53	27° \mathcal{A} 03'47		morning max el	11270 Dec 13 06:44	10° \mathcal{A} 29'41	19°52'53
morning max el	11269 Dec 30 13:20	28° \mathcal{A} 24'35	18°49'44	asc. node	11270 Dec 15 21:58	13° \mathcal{A} 19'24	
	11270 Jan 01 01:45	0° \mathcal{B}			11270 Dec 26 09:53	0° \mathcal{B}	
morning set	11270 Jan 15 21:31	24° \mathcal{B} 40'41		morning set	11270 Dec 31 02:07	9° \mathcal{B} 15'08	
	11270 Jan 18 14:39	0° \approx					
				superior conj	11271 Jan 07 21:03	25° \mathcal{B} 02'15	1°15'27
superior conj	11270 Jan 24 11:07	11° \approx 18'37	0°53'07	minimum elong	11271 Jan 07 23:51	25° \mathcal{B} 16'11	1°15'46
minimum elong	11270 Jan 24 14:04	11° \approx 32'31	0°53'13		11271 Jan 10 09:37	0° \approx	
desc. node	11270 Jan 31 11:48	24° \approx 11'15		max. Earth dist.	11271 Jan 13 20:48	6° \approx 36'33	1.37216 AU
max. Earth dist.	11270 Jan 31 14:27	24° \approx 22'55	1.39425 AU	evening rise	11271 Jan 17 14:22	13° \approx 26'23	
	11270 Feb 03 20:01	0° \mathcal{H}		desc. node	11271 Jan 18 08:37	14° \approx 47'41	
evening rise	11270 Feb 04 12:40	1° \mathcal{H} 10'55			11271 Jan 27 09:29	0° \mathcal{H}	
	11270 Feb 23 02:11	0° \mathcal{Y}			11271 Feb 18 00:59	0° \mathcal{Y}	
evening max el	11270 Mar 11 14:07	20° \mathcal{Y} 30'55	24°15'34	evening max el	11271 Feb 22 03:25	4° \mathcal{Y} 21'18	25°30'35
retrograde	11270 Mar 22 21:23	27° \mathcal{Y} 08'40		retrograde	11271 Mar 06 09:58	11° \mathcal{Y} 26'14	
asc. node	11270 Mar 26 22:44	25° \mathcal{Y} 53'14		evening set	11271 Mar 12 07:43	8° \mathcal{Y} 59'49	
evening set	11270 Mar 28 07:14	24° \mathcal{Y} 52'36		asc. node	11271 Mar 13 20:04	7° \mathcal{Y} 34'08	
min. Earth dist.	11270 Apr 01 22:35	19° \mathcal{Y} 32'49	0.68360 AU	min. Earth dist.	11271 Mar 16 15:55	4° \mathcal{Y} 15'03	0.67593 AU
inferior conj	11270 Apr 02 19:13	18° \mathcal{Y} 23'16	2°01'31	inferior conj	11271 Mar 18 00:33	2° \mathcal{Y} 30'17	1°18'20
minimum elong	11270 Apr 02 17:03	18° \mathcal{Y} 30'32	2°00'43	minimum elong	11271 Mar 17 22:49	2° \mathcal{Y} 35'50	1°17'44
morning rise	11270 Apr 08 02:59	12° \mathcal{Y} 22'32			11271 Mar 20 00:51	30° \mathcal{R} \mathcal{H}	
direct	11270 Apr 12 01:23	10° \mathcal{Y} 54'24		morning rise	11271 Mar 23 14:24	26° \mathcal{H} 38'14	
morning max el	11270 Apr 19 17:25	15° \mathcal{Y} 12'49	20°07'25	direct	11271 Mar 27 00:53	25° \mathcal{H} 30'29	
desc. node	11270 Apr 29 13:05	27° \mathcal{Y} 24'15		morning max el	11271 Apr 02 22:56	29° \mathcal{H} 17'17	19°07'19
	11270 May 01 09:06	0° \mathcal{B}			11271 Apr 03 15:49	0° \mathcal{Y}	
morning set	11270 May 17 08:21	23° \mathcal{B} 54'14		greatest brilliancy	11271 Apr 16 01:19	16° \mathcal{Y} 41'32	-0.7m
	11270 May 21 06:43	0° \mathbb{I}		desc. node	11271 Apr 16 09:51	17° \mathcal{Y} 13'35	
max. Earth dist.	11270 May 27 11:28	9° \mathbb{I} 46'43	1.44145 AU		11271 Apr 24 18:16	0° \mathcal{B}	
				morning set	11271 Apr 26 11:18	2° \mathcal{B} 38'32	
				max. Earth dist.	11271 May 10 03:06	23° \mathcal{B} 54'11	1.45280 AU
superior conj	11270 Jun 02 04:09	18° \mathbb{I} 58'54	-2°09'15				
minimum elong	11270 Jun 02 08:15	19° \mathbb{I} 15'42	2°09'45				
	11270 Jun 08 19:13	0° \mathcal{E}		superior conj	11271 May 12 22:58	28° \mathcal{B} 21'26	-2°11'57
evening rise	11270 Jun 15 04:03	10° \mathcal{E} 52'22		minimum elong	11271 May 12 20:12	28° \mathcal{B} 10'32	2°12'26
asc. node	11270 Jun 22 20:59	24° \mathcal{E} 00'52			11271 May 13 23:53	0° \mathbb{I}	
	11270 Jun 26 15:11	0° \mathcal{Q}		evening rise	11271 May 27 15:34	22° \mathbb{I} 01'05	
evening max el	11270 Jul 02 15:13	7° \mathcal{Q} 42'36	18°05'43		11271 Jun 01 12:23	0° \mathcal{E}	
retrograde	11270 Jul 09 01:03	11° \mathcal{Q} 03'02		asc. node	11271 Jun 09 18:01	13° \mathcal{E} 01'06	
evening set	11270 Jul 11 18:29	10° \mathcal{Q} 25'24		evening max el	11271 Jun 16 04:40	21° \mathcal{E} 13'27	18°22'59
inferior conj	11270 Jul 18 01:19	5° \mathcal{Q} 13'22	2°16'29	retrograde	11271 Jun 22 14:33	24° \mathcal{E} 39'45	
minimum elong	11270 Jul 18 04:01	5° \mathcal{Q} 06'15	2°15'11	evening set	11271 Jun 25 16:00	23° \mathcal{E} 47'57	
min. Earth dist.	11270 Jul 20 21:56	2° \mathcal{Q} 13'28	0.62470 AU	inferior conj	11271 Jul 01 11:46	18° \mathcal{E} 19'05	2°53'10
	11270 Jul 23 07:13	30° \mathcal{R} \mathcal{E}		minimum elong	11271 Jul 01 13:49	18° \mathcal{E} 13'04	2°52'08
morning rise	11270 Jul 24 11:30	29° \mathcal{E} 04'30		min. Earth dist.	11271 Jul 03 18:45	15° \mathcal{E} 38'33	0.64532 AU
desc. node	11270 Jul 26 12:29	27° \mathcal{E} 48'30		morning rise	11271 Jul 07 10:25	12° \mathcal{E} 00'20	
direct	11270 Jul 31 04:12	26° \mathcal{E} 38'14		desc. node	11271 Jul 13 09:42	9° \mathcal{E} 21'33	
	11270 Aug 08 20:48	0° \mathcal{Q}		direct	11271 Jul 14 00:59	9° \mathcal{E} 20'09	
morning max el	11270 Aug 14 06:37	4° \mathcal{Q} 40'32	27°55'21	morning max el	11271 Jul 27 16:48	17° \mathcal{E} 19'57	27°25'17
	11270 Sep 02 06:33	0° \mathbb{M}			11271 Aug 07 06:11	0° \mathcal{Q}	
morning set	11270 Sep 17 08:52	27° \mathbb{M} 29'10			11271 Aug 26 03:18	0° \mathbb{M}	

































































































































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max. Earth dist.	11271 Sep 05 14:35	20° \mathbb{M} 21'49	1.33085 AU		11272 Aug 17 05:48	0° \mathbb{M}	
asc. node	11271 Sep 05 18:19	20° \mathbb{M} 41'10		max. Earth dist.	11272 Aug 18 01:34	1° \mathbb{M} 36'38	1.34652 AU
				asc. node	11272 Aug 22 15:04	10° \mathbb{M} 47'18	
superior conj	11271 Sep 09 03:35	27° \mathbb{M} 49'11	0°32'43	superior conj	11272 Aug 23 01:37	11° \mathbb{M} 41'36	0°04'18
minimum elong	11271 Sep 09 02:03	27° \mathbb{M} 41'01	0°32'19	minimum elong	11272 Aug 23 01:24	11° \mathbb{M} 40'26	0°03'59
	11271 Sep 10 04:02	0° $\underline{\mathbf{A}}$		behind sun begin	11272 Aug 22 19:40	11° \mathbb{M} 10'54	
evening rise	11271 Sep 16 05:23	13° $\underline{\mathbf{A}}$ 01'38		behind sun end	11272 Aug 23 07:08	12° \mathbb{M} 10'01	
	11271 Sep 24 18:09	0° \mathbb{M}		evening rise	11272 Aug 30 14:36	27° \mathbb{M} 27'35	
evening max el	11271 Oct 07 20:01	18° \mathbb{M} 22'11	22°27'13		11272 Aug 31 20:01	0° $\underline{\mathbf{A}}$	
desc. node	11271 Oct 09 07:03	19° \mathbb{M} 43'17		evening max el	11272 Sep 18 15:36	28° $\underline{\mathbf{A}}$ 47'07	20°54'47
retrograde	11271 Oct 20 19:02	24° \mathbb{M} 48'58			11272 Sep 19 22:43	0° \mathbb{M}	
evening set	11271 Oct 24 06:42	24° \mathbb{M} 22'13		desc. node	11272 Sep 25 04:24	3° \mathbb{M} 27'20	
min. Earth dist.	11271 Nov 01 03:09	20° \mathbb{M} 52'06	0.54847 AU	retrograde	11272 Sep 30 06:19	4° \mathbb{M} 32'50	
inferior conj	11271 Nov 02 00:34	20° \mathbb{M} 21'49	-5°40'28	evening set	11272 Oct 02 14:04	4° \mathbb{M} 19'59	
minimum elong	11271 Nov 01 19:51	20° \mathbb{M} 28'29	5°39'32	inferior conj	11272 Oct 11 16:31	0° \mathbb{M} 25'03	-4°39'44
morning rise	11271 Nov 10 10:32	16° \mathbb{M} 34'24		minimum elong	11272 Oct 11 06:38	0° \mathbb{M} 39'04	4°36'55
direct	11271 Nov 13 17:12	16° \mathbb{M} 10'05			11272 Oct 12 10:09	30° \mathbb{R} $\underline{\mathbf{A}}$	
morning max el	11271 Nov 25 10:18	21° \mathbb{M} 42'50	21°18'23	min. Earth dist.	11272 Oct 12 10:45	29° $\underline{\mathbf{A}}$ 59'08	0.54614 AU
	11271 Dec 02 07:56	0° \mathbb{X}		morning rise	11272 Oct 19 23:22	26° $\underline{\mathbf{A}}$ 30'17	
asc. node	11271 Dec 02 18:59	0° \mathbb{X} 40'29		direct	11272 Oct 24 01:26	25° $\underline{\mathbf{A}}$ 54'25	
morning set	11271 Dec 15 11:08	23° \mathbb{X} 59'04			11272 Nov 03 12:52	0° \mathbb{M}	
	11271 Dec 18 07:53	0° \mathbb{Z}		morning max el	11272 Nov 06 02:00	2° \mathbb{M} 10'34	23°01'03
superior conj	11271 Dec 22 17:34	9° \mathbb{Z} 14'17	1°30'10	asc. node	11272 Nov 18 15:55	18° \mathbb{M} 52'13	
minimum elong	11271 Dec 22 19:31	9° \mathbb{Z} 24'21	1°30'42		11272 Nov 24 16:19	0° \mathbb{X}	
max. Earth dist.	11271 Dec 27 06:57	18° \mathbb{Z} 29'54	1.35207 AU	morning set	11272 Nov 28 22:28	8° \mathbb{X} 46'48	
evening rise	11271 Dec 31 09:21	26° \mathbb{Z} 25'54					
	11272 Jan 02 07:22	0° \approx		superior conj	11272 Dec 05 21:25	23° \mathbb{X} 45'23	1°37'51
desc. node	11272 Jan 05 05:29	5° \approx 15'48		minimum elong	11272 Dec 05 22:13	23° \mathbb{X} 49'39	1°38'30
	11272 Jan 20 19:19	0° \mathbb{H}			11272 Dec 08 20:03	0° \mathbb{Z}	
evening max el	11272 Feb 04 16:55	18° \mathbb{H} 07'20	26°33'08	max. Earth dist.	11272 Dec 09 00:43	0° \mathbb{Z} 24'28	1.33561 AU
retrograde	11272 Feb 17 17:18	25° \mathbb{H} 27'21		evening rise	11272 Dec 13 17:59	10° \mathbb{Z} 00'19	
evening set	11272 Feb 24 02:07	22° \mathbb{H} 54'57		desc. node	11272 Dec 22 02:26	25° \mathbb{Z} 30'49	
min. Earth dist.	11272 Feb 28 04:21	18° \mathbb{H} 44'26	0.66428 AU		11272 Dec 24 17:34	0° \approx	
asc. node	11272 Feb 28 17:23	18° \mathbb{H} 05'46			11273 Jan 15 13:54	0° \mathbb{H}	
inferior conj	11272 Mar 01 00:54	16° \mathbb{H} 30'57	0°25'29	evening max el	11273 Jan 17 06:18	1° \mathbb{H} 40'27	27°15'46
minimum elong	11272 Mar 01 00:13	16° \mathbb{H} 32'59	0°25'26	retrograde	11273 Jan 30 18:25	9° \mathbb{H} 04'19	
morning rise	11272 Mar 06 23:21	10° \mathbb{H} 49'20		evening set	11273 Feb 06 12:20	6° \mathbb{H} 31'46	
direct	11272 Mar 09 23:12	9° \mathbb{H} 59'11		min. Earth dist.	11273 Feb 10 09:41	2° \mathbb{H} 54'02	0.64903 AU
morning max el	11272 Mar 16 11:01	13° \mathbb{H} 26'56	18°23'22	inferior conj	11273 Feb 12 17:53	0° \mathbb{H} 20'00	-0°36'54
	11272 Mar 28 14:13	0° \mathbb{Y}		minimum elong	11273 Feb 12 18:59	0° \mathbb{H} 16'59	0°36'03
desc. node	11272 Apr 02 06:32	7° \mathbb{Y} 22'37			11273 Feb 13 01:11	30° \mathbb{R} \approx	
morning set	11272 Apr 05 11:56	12° \mathbb{Y} 30'06		asc. node	11273 Feb 14 14:40	28° \approx 20'31	
	11272 Apr 16 13:43	0° \mathbb{B}		morning rise	11273 Feb 19 03:17	24° \approx 51'15	
				direct	11273 Feb 21 18:10	24° \approx 15'11	
superior conj	11272 Apr 21 05:49	7° \mathbb{B} 18'50	-1°54'21	morning max el	11273 Feb 28 03:18	27° \approx 35'12	17°56'20
minimum elong	11272 Apr 20 21:00	6° \mathbb{B} 44'24	1°54'03		11273 Mar 02 08:00	0° \mathbb{H}	
max. Earth dist.	11272 Apr 21 21:53	8° \mathbb{B} 21'37	1.45702 AU	morning set	11273 Mar 17 17:42	23° \mathbb{H} 48'05	
	11272 May 05 17:43	0° \mathbb{I}		desc. node	11273 Mar 20 03:12	27° \mathbb{H} 45'57	
evening rise	11272 May 07 02:54	2° \mathbb{I} 10'24			11273 Mar 21 11:44	0° \mathbb{Y}	
greatest brilliancy	11272 May 17 01:23	17° \mathbb{I} 44'20	-0.8m				
	11272 May 25 11:16	0° \mathbb{E}		superior conj	11273 Mar 31 18:37	16° \mathbb{Y} 38'46	-1°20'08
asc. node	11272 May 26 15:07	1° \mathbb{E} 29'07		minimum elong	11273 Mar 31 10:12	16° \mathbb{Y} 05'15	1°19'15
evening max el	11272 May 29 15:12	4° \mathbb{E} 53'11	18°57'56	max. Earth dist.	11273 Apr 04 17:41	22° \mathbb{Y} 54'30	1.45382 AU
retrograde	11272 Jun 05 09:48	8° \mathbb{E} 38'08			11273 Apr 09 06:32	0° \mathbb{B}	
evening set	11272 Jun 08 19:38	7° \mathbb{E} 30'54		evening rise	11273 Apr 16 19:35	11° \mathbb{B} 39'24	
inferior conj	11272 Jun 14 07:59	1° \mathbb{E} 46'46	3°11'59		11273 Apr 28 21:30	0° \mathbb{I}	
minimum elong	11272 Jun 14 08:57	1° \mathbb{E} 43'42	3°11'13	greatest brilliancy	11273 May 01 04:55	3° \mathbb{I} 24'38	-0.6m
	11272 Jun 15 17:36	30° \mathbb{R} \mathbb{I}		evening max el	11273 May 12 20:56	18° \mathbb{I} 36'26	19°49'04
min. Earth dist.	11272 Jun 16 00:02	29° \mathbb{I} 39'50	0.66242 AU	asc. node	11273 May 13 12:16	19° \mathbb{I} 14'01	
morning rise	11272 Jun 19 21:37	25° \mathbb{I} 25'02		retrograde	11273 May 20 07:52	22° \mathbb{I} 51'35	
direct	11272 Jun 26 05:05	22° \mathbb{I} 41'55		evening set	11273 May 24 02:44	21° \mathbb{I} 28'14	
desc. node	11272 Jun 29 06:50	23° \mathbb{I} 14'57		inferior conj	11273 May 29 10:49	15° \mathbb{I} 30'07	3°16'19
	11272 Jul 08 17:50	0° \mathbb{E}		minimum elong	11273 May 29 10:40	15° \mathbb{I} 30'40	3°15'40
morning max el	11272 Jul 09 03:36	0° \mathbb{E} 24'33	26°26'19	min. Earth dist.	11273 May 30 12:12	14° \mathbb{I} 05'04	0.67523 AU
	11272 Jul 31 05:23	0° Ω		morning rise	11273 Jun 03 18:15	9° \mathbb{I} 09'38	

direct	11273 Jun 09 15:05	6° Π 33'40		desc. node	11274 Jun 03 00:50	26° \mathcal{B} 15'33	
desc. node	11273 Jun 16 03:53	9° Π 02'15		morning max el	11274 Jun 03 23:22	27° \mathcal{B} 11'05	23°39'00
morning max el	11273 Jun 21 13:33	13° Π 43'13	25°07'35		11274 Jun 06 14:28	0° Π	
	11273 Jul 04 18:35	0° \mathcal{E}			11274 Jun 28 09:22	0° \mathcal{E}	
	11273 Jul 24 00:41	0° Ω		morning set	11274 Jul 09 02:37	17° \mathcal{E} 21'14	
morning set	11273 Jul 27 12:51	6° Ω 09'00		max. Earth dist.	11274 Jul 13 00:31	24° \mathcal{E} 06'14	1.38923 AU
max. Earth dist.	11273 Jul 31 03:09	12° Ω 41'50	1.36656 AU		11274 Jul 16 07:55	0° Ω	
superior conj	11273 Aug 06 13:55	25° Ω 03'07	-0°27'44	superior conj	11274 Jul 20 12:53	7° Ω 45'11	-1°01'28
minimum elong	11273 Aug 06 15:42	25° Ω 11'54	0°27'50	minimum elong	11274 Jul 20 17:07	8° Ω 05'01	1°01'21
asc. node	11273 Aug 09 11:49	0° Π 51'34		asc. node	11274 Jul 27 08:37	20° Ω 50'24	
	11273 Aug 09 01:33	0° Π		evening rise	11274 Jul 29 17:31	25° Ω 27'45	
evening rise	11273 Aug 14 19:34	11° Π 38'38			11274 Aug 01 01:46	0° Π	
	11273 Aug 24 14:08	0° \mathcal{E}		evening max el	11274 Aug 14 22:33	21° Π 47'27	18°47'53
evening max el	11273 Sep 01 00:40	9° \mathcal{E} 54'02	19°40'38	retrograde	11274 Aug 23 07:54	25° Π 59'17	
retrograde	11273 Sep 10 22:53	14° \mathcal{E} 50'18		evening set	11274 Aug 25 06:04	25° Π 46'51	
desc. node	11273 Sep 12 01:44	14° \mathcal{E} 46'46		desc. node	11274 Aug 29 23:04	23° Π 45'54	
evening set	11273 Sep 12 19:42	14° \mathcal{E} 40'35		inferior conj	11274 Sep 02 09:21	21° Π 25'50	-1°04'16
inferior conj	11273 Sep 21 15:43	10° \mathcal{E} 37'17	-2°56'44	minimum elong	11274 Sep 02 06:40	21° Π 30'42	1°03'22
minimum elong	11273 Sep 21 07:56	10° \mathcal{E} 49'26	2°53'52	min. Earth dist.	11274 Sep 05 11:26	19° Π 12'05	0.56847 AU
min. Earth dist.	11273 Sep 23 20:42	9° \mathcal{E} 14'40	0.55327 AU	morning rise	11274 Sep 10 03:57	16° Π 26'46	
morning rise	11273 Sep 29 18:18	6° \mathcal{E} 15'44		direct	11274 Sep 15 20:12	15° Π 08'50	
direct	11273 Oct 04 16:08	5° \mathcal{E} 22'25		morning max el	11274 Sep 30 02:40	22° Π 32'53	26°22'53
morning max el	11273 Oct 18 12:48	12° \mathcal{E} 16'08	24°48'29		11274 Oct 06 17:51	0° \mathcal{E}	
	11273 Nov 01 03:02	0° \mathcal{M}		asc. node	11274 Oct 23 09:35	26° \mathcal{E} 59'10	
asc. node	11273 Nov 05 12:47	7° \mathcal{M} 41'37			11274 Oct 24 22:05	0° \mathcal{M}	
morning set	11273 Nov 13 10:16	23° \mathcal{M} 32'35		morning set	11274 Oct 28 20:51	8° \mathcal{M} 11'58	
	11273 Nov 16 09:41	0° \mathcal{X}					
superior conj	11273 Nov 20 05:57	8° \mathcal{X} 27'16	1°39'06	superior conj	11274 Nov 04 17:01	23° \mathcal{M} 13'44	1°34'22
minimum elong	11273 Nov 20 05:35	8° \mathcal{X} 25'19	1°39'42	minimum elong	11274 Nov 04 15:42	23° \mathcal{M} 06'21	1°34'46
max. Earth dist.	11273 Nov 22 02:20	12° \mathcal{X} 29'47	1.32355 AU	max. Earth dist.	11274 Nov 05 09:26	24° \mathcal{M} 44'54	1.31624 AU
evening rise	11273 Nov 27 12:50	24° \mathcal{X} 00'15			11274 Nov 07 18:30	0° \mathcal{X}	
	11273 Nov 30 12:39	0° \mathcal{Z}		evening rise	11274 Nov 11 15:08	8° \mathcal{X} 18'31	
desc. node	11273 Dec 08 23:28	15° \mathcal{Z} 26'13			11274 Nov 22 22:17	0° \mathcal{Z}	
	11273 Dec 18 08:36	0° \approx		desc. node	11274 Nov 25 20:33	4° \mathcal{Z} 53'43	
evening max el	11273 Dec 30 17:52	14° \approx 48'00	27°31'38	evening max el	11274 Dec 13 00:57	27° \mathcal{Z} 16'11	27°15'13
retrograde	11274 Jan 13 12:26	22° \approx 08'27			11274 Dec 16 04:47	0° \approx	
evening set	11274 Jan 20 11:50	19° \approx 42'55		retrograde	11274 Dec 26 22:34	4° \approx 30'02	
min. Earth dist.	11274 Jan 24 05:50	16° \approx 34'45	0.63062 AU	evening set	11275 Jan 02 21:22	2° \approx 20'12	
inferior conj	11274 Jan 27 00:42	13° \approx 50'24	-1°47'52		11275 Jan 06 03:05	30° \mathcal{R} \mathcal{Z}	
minimum elong	11274 Jan 27 04:16	13° \approx 41'39	1°45'53	min. Earth dist.	11275 Jan 06 15:26	29° \mathcal{Z} 34'33	0.60998 AU
asc. node	11274 Feb 01 11:54	9° \approx 18'30		inferior conj	11275 Jan 09 18:02	26° \mathcal{Z} 52'57	-3°04'38
morning rise	11274 Feb 02 22:57	8° \approx 37'39		minimum elong	11275 Jan 10 00:20	26° \mathcal{Z} 39'16	3°01'41
direct	11274 Feb 05 06:51	8° \approx 11'58		morning rise	11275 Jan 17 06:03	21° \mathcal{Z} 59'29	
morning max el	11274 Feb 11 20:57	11° \approx 34'32	17°46'46	direct	11275 Jan 19 09:29	21° \mathcal{Z} 40'37	
	11274 Feb 24 09:22	0° \mathcal{H}		asc. node	11275 Jan 19 09:06	21° \mathcal{Z} 40'37	
morning set	11274 Feb 28 01:01	6° \mathcal{H} 20'04		morning max el	11275 Jan 26 12:39	25° \mathcal{Z} 15'30	17°55'28
desc. node	11274 Mar 06 23:53	18° \mathcal{H} 19'18			11275 Jan 30 11:33	0° \approx	
				morning set	11275 Feb 11 03:22	19° \approx 45'07	
superior conj	11274 Mar 12 04:03	26° \mathcal{H} 59'41	-0°38'31		11275 Feb 16 18:45	0° \mathcal{H}	
minimum elong	11274 Mar 12 00:05	26° \mathcal{H} 43'19	0°37'49	superior conj	11275 Feb 21 14:21	8° \mathcal{H} 31'05	0°02'01
	11274 Mar 13 23:54	0° \mathcal{Y}		minimum elong	11275 Feb 21 14:32	8° \mathcal{H} 31'56	0°02'18
max. Earth dist.	11274 Mar 18 12:04	7° \mathcal{Y} 17'23	1.44353 AU	behind sun begin	11275 Feb 21 06:24	7° \mathcal{H} 56'31	
evening rise	11274 Mar 27 07:15	21° \mathcal{Y} 05'02		behind sun end	11275 Feb 21 22:40	9° \mathcal{H} 07'15	
	11274 Apr 02 03:49	0° \mathcal{B}		desc. node	11275 Feb 21 20:36	8° \mathcal{H} 58'16	
	11274 Apr 23 16:38	0° Π		max. Earth dist.	11275 Mar 01 02:10	21° \mathcal{H} 11'36	1.42726 AU
evening max el	11274 Apr 25 20:57	2° Π 21'03	20°54'02		11275 Mar 06 13:01	0° \mathcal{Y}	
asc. node	11274 Apr 30 09:27	6° Π 02'58		evening rise	11275 Mar 07 04:48	1° \mathcal{Y} 02'24	
retrograde	11274 May 04 06:36	7° Π 15'16			11275 Mar 26 16:13	0° \mathcal{B}	
evening set	11274 May 08 11:18	5° Π 35'54		evening max el	11275 Apr 08 15:40	16° \mathcal{B} 06'15	22°09'14
	11274 May 13 07:48	30° \mathcal{R} \mathcal{B}		asc. node	11275 Apr 17 06:42	21° \mathcal{B} 39'54	
inferior conj	11274 May 13 17:49	29° \mathcal{B} 25'24	3°08'33	retrograde	11275 Apr 18 04:13	21° \mathcal{B} 43'47	
minimum elong	11274 May 13 16:41	29° \mathcal{B} 29'19	3°07'53	evening set	11275 Apr 22 19:36	19° \mathcal{B} 49'04	
min. Earth dist.	11274 May 14 05:21	28° \mathcal{B} 45'30	0.68344 AU	inferior conj	11275 Apr 28 02:48	13° \mathcal{B} 28'32	2°50'13
morning rise	11274 May 18 21:52	23° \mathcal{B} 08'32		minimum elong	11275 Apr 28 00:59	13° \mathcal{B} 34'54	2°49'27
direct	11274 May 24 06:03	20° \mathcal{B} 47'21		min. Earth dist.	11275 Apr 28 01:25	13° \mathcal{B} 33'23	0.68702 AU

morning rise	11275 May 03 06:12	7° 8 16'47		min. Earth dist.	11276 Apr 10 22:13	28° 9 23'14	0.68610 AU
direct	11275 May 08 01:01	5° 8 14'57		morning rise	11276 Apr 16 17:18	21° 9 30'57	
morning max el	11275 May 17 11:24	10° 8 46'56	22°10'02	direct	11276 Apr 20 22:56	19° 9 50'27	
desc. node	11275 May 20 21:45	14° 8 31'25		morning max el	11276 Apr 29 04:48	24° 9 33'17	20°48'32
	11275 Jun 01 14:58	0° II			11276 May 04 00:22	0° 8	
morning set	11275 Jun 19 15:02	27° II 24'19		desc. node	11276 May 06 18:37	3° 8 32'58	
	11275 Jun 21 05:24	0° ☾			11276 May 24 23:39	0° II	
max. Earth dist.	11275 Jun 24 23:45	6° ☾ 13'29	1.41196 AU	morning set	11276 May 29 02:35	6° II 21'48	
				max. Earth dist.	11276 Jun 06 05:12	19° II 14'02	1.43206 AU
					11276 Jun 12 17:58	0° ☾	
superior conj	11275 Jul 02 18:10	19° ☾ 37'27	-1°33'47				
minimum elong	11275 Jul 03 00:27	20° ☾ 05'22	1°33'40	superior conj	11276 Jun 13 01:25	0° ☾ 31'21	-1°59'45
	11275 Jul 08 11:44	0° Ω		minimum elong	11276 Jun 13 07:33	0° ☾ 57'07	1°59'59
evening rise	11275 Jul 13 04:59	8° Ω 45'34		evening rise	11276 Jun 25 01:35	21° ☾ 21'25	
asc. node	11275 Jul 14 05:29	10° Ω 39'33			11276 Jun 29 23:06	0° Ω	
	11275 Jul 25 14:20	0° ♍		asc. node	11276 Jun 30 02:24	0° Ω 14'20	
evening max el	11275 Jul 29 05:41	4° ♍ 20'26	18°16'09	evening max el	11276 Jul 11 18:05	17° Ω 23'15	18°04'09
retrograde	11275 Aug 05 11:54	8° ♍ 00'32		retrograde	11276 Jul 18 08:13	20° Ω 46'22	
evening set	11275 Aug 07 16:43	7° ♍ 41'00		evening set	11276 Jul 20 21:04	20° Ω 16'06	
inferior conj	11275 Aug 15 00:49	2° ♍ 59'41	0°32'54	inferior conj	11276 Jul 27 12:05	15° Ω 15'01	1°45'41
minimum elong	11275 Aug 15 01:55	2° ♍ 57'20	0°32'09	minimum elong	11276 Jul 27 14:42	15° Ω 08'36	1°44'21
desc. node	11275 Aug 16 20:22	1° ♍ 26'37		min. Earth dist.	11276 Jul 30 15:11	12° Ω 12'14	0.61180 AU
min. Earth dist.	11275 Aug 18 09:09	0° ♍ 10'13	0.58902 AU	desc. node	11276 Aug 02 17:42	9° Ω 36'50	
	11275 Aug 18 14:15	30° ♍ Ω		morning rise	11276 Aug 03 05:42	9° Ω 16'01	
morning rise	11275 Aug 22 07:41	27° Ω 25'43		direct	11276 Aug 09 21:02	7° Ω 01'43	
direct	11275 Aug 28 14:34	25° Ω 38'34		morning max el	11276 Aug 24 02:54	15° Ω 01'00	27°56'38
	11275 Sep 08 02:12	0° ♍			11276 Sep 05 06:56	0° ♍	
morning max el	11275 Sep 11 23:25	3° ♍ 24'57	27°28'29		11276 Sep 22 21:59	0° ♍	
	11275 Oct 01 09:16	0° ♍		morning set	11276 Sep 26 07:26	6° ♍ 51'02	
asc. node	11275 Oct 10 06:22	16° ♍ 37'14		asc. node	11276 Sep 26 03:08	6° ♍ 28'48	
morning set	11275 Oct 13 04:34	22° ♍ 40'15		max. Earth dist.	11276 Oct 02 02:01	19° ♍ 11'31	1.31637 AU
	11275 Oct 16 14:13	0° ♍					
superior conj	11275 Oct 20 04:46	7° ♍ 59'09	1°23'58	superior conj	11276 Oct 03 15:18	22° ♍ 36'46	1°08'08
minimum elong	11275 Oct 20 02:47	7° ♍ 48'03	1°24'06	minimum elong	11276 Oct 03 13:03	22° ♍ 24'22	1°07'59
max. Earth dist.	11275 Oct 19 18:36	7° ♍ 02'28	1.31379 AU		11276 Oct 06 23:24	0° ♍	
evening rise	11275 Oct 26 22:30	22° ♍ 48'57		evening rise	11276 Oct 10 08:48	7° ♍ 24'41	
	11275 Oct 30 09:02	0° ♍			11276 Oct 21 23:17	0° ♍	
desc. node	11275 Nov 12 17:42	23° ♍ 42'27		desc. node	11276 Oct 29 14:56	11° ♍ 36'20	
	11275 Nov 17 04:42	0° ♍		evening max el	11276 Nov 05 17:13	19° ♍ 44'04	25°03'54
evening max el	11275 Nov 25 01:08	8° ♍ 55'42	26°24'37	retrograde	11276 Nov 19 13:24	26° ♍ 40'44	
retrograde	11275 Dec 08 23:39	16° ♍ 01'48		evening set	11276 Nov 25 05:38	25° ♍ 28'08	
evening set	11275 Dec 15 12:52	14° ♍ 17'07		min. Earth dist.	11276 Nov 30 05:10	22° ♍ 45'52	0.56904 AU
min. Earth dist.	11275 Dec 19 14:41	11° ♍ 41'38	0.58869 AU	inferior conj	11276 Dec 02 22:50	20° ♍ 58'02	-5°21'56
inferior conj	11275 Dec 22 18:25	9° ♍ 18'41	-4°20'21	minimum elong	11276 Dec 03 05:35	20° ♍ 46'54	5°20'10
minimum elong	11275 Dec 23 02:33	9° ♍ 03'17	4°17'21	morning rise	11276 Dec 11 07:48	16° ♍ 48'09	
morning rise	11275 Dec 30 19:00	4° ♍ 46'54		direct	11276 Dec 13 16:06	16° ♍ 32'21	
direct	11276 Jan 01 21:52	4° ♍ 31'24		morning max el	11276 Dec 22 23:14	21° ♍ 00'40	19°13'41
asc. node	11276 Jan 06 06:16	5° ♍ 40'39		asc. node	11276 Dec 23 03:23	21° ♍ 10'47	
morning max el	11276 Jan 09 22:45	8° ♍ 28'17	18°23'46		11276 Dec 29 22:39	0° ♍	
	11276 Jan 23 19:28	0° ♍		morning set	11277 Jan 08 19:58	18° ♍ 11'44	
morning set	11276 Jan 25 19:07	3° ♍ 46'42			11277 Jan 14 18:22	0° ♍	
superior conj	11276 Feb 03 22:52	21° ♍ 04'27	0°36'36	superior conj	11277 Jan 17 00:48	4° ♍ 25'44	1°03'31
minimum elong	11276 Feb 04 01:19	21° ♍ 15'42	0°36'42	minimum elong	11277 Jan 17 03:49	4° ♍ 40'16	1°03'43
desc. node	11276 Feb 08 17:20	29° ♍ 39'10		max. Earth dist.	11277 Jan 23 17:26	16° ♍ 58'11	1.38481 AU
	11276 Feb 08 22:04	0° ♍		desc. node	11277 Jan 25 14:06	20° ♍ 18'11	
max. Earth dist.	11276 Feb 11 11:12	4° ♍ 25'18	1.40692 AU	evening rise	11277 Jan 27 11:51	23° ♍ 38'50	
evening rise	11276 Feb 15 21:38	11° ♍ 52'46			11277 Jan 31 05:29	0° ♍	
	11276 Feb 27 10:37	0° ♍			11277 Feb 20 05:27	0° ♍	
	11276 Mar 21 09:12	0° 8		evening max el	11277 Mar 03 20:31	13° ♍ 44'51	24°48'36
evening max el	11276 Mar 21 06:49	29° ♍ 54'05	23°29'32	retrograde	11277 Mar 15 14:25	20° ♍ 35'25	
retrograde	11276 Mar 31 23:16	6° 8 12'19		evening set	11277 Mar 21 05:15	18° ♍ 14'50	
asc. node	11276 Apr 03 03:59	5° 8 49'34		asc. node	11277 Mar 21 01:18	18° ♍ 23'06	
evening set	11276 Apr 06 02:06	4° 8 03'40		min. Earth dist.	11277 Mar 25 17:30	13° ♍ 09'45	0.68085 AU
	11276 Apr 09 17:33	30° ♍ ♍		inferior conj	11277 Mar 26 19:09	11° ♍ 44'50	1°44'25
inferior conj	11276 Apr 11 11:53	27° ♍ 36'18	2°22'05	minimum elong	11277 Mar 26 17:07	11° ♍ 51'36	1°43'39
minimum elong	11276 Apr 11 09:43	27° ♍ 43'43	2°21'15	morning rise	11277 Apr 01 05:10	5° ♍ 47'20	

direct	11277 Apr 04 22:24	4°♂27'58		min. Earth dist.	11278 Mar 09 08:58	27°♂47'22	0.67150 AU
morning max el	11277 Apr 12 05:46	8°♂31'26	19°39'50	inferior conj	11278 Mar 10 22:38	25°♂49'44	0°57'07
desc. node	11277 Apr 23 15:24	23°♂07'39		minimum elong	11278 Mar 10 21:16	25°♂54'01	0°56'42
greatest brilliancy	11277 Apr 24 23:20	25°♂03'58	-0.6m	morning rise	11278 Mar 16 15:50	20°♂01'51	
	11277 Apr 28 07:16	0°♂		direct	11278 Mar 19 21:44	19°♂01'49	
morning set	11277 May 08 02:06	14°♂52'13		morning max el	11278 Mar 26 14:16	22°♂38'36	18°46'33
	11277 May 17 19:35	0°♂			11278 Apr 01 16:11	0°♂	
max. Earth dist.	11277 May 19 17:52	3°♂02'41	1.44713 AU	desc. node	11278 Apr 10 12:06	13°♂06'08	
				morning set	11278 Apr 17 12:25	24°♂00'21	
superior conj	11277 May 24 08:39	10°♂24'32	-2°12'46		11278 Apr 21 08:36	0°♂	
minimum elong	11277 May 24 10:13	10°♂30'52	2°13'23	max. Earth dist.	11278 May 02 11:41	17°♂22'42	1.45556 AU
	11277 Jun 05 06:30	0°♂					
evening rise	11277 Jun 07 02:23	3°♂04'35		superior conj	11278 May 03 20:24	19°♂30'48	-2°06'55
asc. node	11277 Jun 16 23:23	19°♂29'29		minimum elong	11278 May 03 14:29	19°♂07'38	2°07'08
	11277 Jun 24 13:58	0°♂			11278 May 10 12:10	0°♂	
evening max el	11277 Jun 25 08:08	0°♂46'55	18°10'55	evening rise	11278 May 19 03:29	13°♂47'21	
retrograde	11277 Jul 01 16:42	4°♂07'49		greatest brilliancy	11278 May 25 10:44	23°♂55'14	-0.9m
evening set	11277 Jul 04 13:37	3°♂24'14			11278 May 29 06:52	0°♂	
	11277 Jul 08 20:24	30°♂		asc. node	11278 Jun 03 20:27	8°♂17'10	
inferior conj	11277 Jul 10 15:17	28°♂04'55	2°34'28	evening max el	11278 Jun 08 20:38	14°♂22'20	18°35'44
minimum elong	11277 Jul 10 17:47	27°♂57'58	2°33'15	retrograde	11278 Jun 15 09:05	17°♂54'54	
min. Earth dist.	11277 Jul 13 06:25	25°♂11'16	0.63387 AU	evening set	11278 Jun 18 14:08	16°♂56'28	
morning rise	11277 Jul 16 20:19	21°♂51'10		inferior conj	11278 Jun 24 06:17	11°♂20'41	3°03'05
desc. node	11277 Jul 20 14:57	19°♂46'06		minimum elong	11278 Jun 24 07:54	11°♂15'47	3°02'11
direct	11277 Jul 23 13:00	19°♂17'37		min. Earth dist.	11278 Jun 26 06:50	8°♂53'28	0.65312 AU
morning max el	11277 Aug 06 11:16	27°♂19'43	27°46'36	morning rise	11278 Jun 30 00:47	5°♂00'09	
	11277 Aug 08 23:52	0°♂		direct	11278 Jul 06 12:48	2°♂17'45	
	11277 Aug 30 00:01	0°♂		desc. node	11278 Jul 07 12:08	2°♂21'02	
morning set	11277 Sep 10 03:13	20°♂38'59		morning max el	11278 Jul 19 21:59	10°♂11'19	27°03'15
asc. node	11277 Sep 12 23:52	26°♂29'20			11278 Aug 04 12:37	0°♂	
	11277 Sep 14 16:05	0°♂			11278 Aug 22 11:20	0°♂	
max. Earth dist.	11277 Sep 15 04:02	1°♂03'18	1.32414 AU	morning set	11278 Aug 24 13:08	3°♂56'48	
				max. Earth dist.	11278 Aug 28 21:19	12°♂32'02	1.33700 AU
superior conj	11277 Sep 17 22:44	7°♂01'29	0°47'04	asc. node	11278 Aug 30 20:37	16°♂34'15	
minimum elong	11277 Sep 17 20:45	6°♂50'47	0°46'44				
evening rise	11277 Sep 24 20:13	22°♂00'54		superior conj	11278 Sep 02 00:52	21°♂07'00	0°21'09
	11277 Sep 28 15:51	0°♂		minimum elong	11278 Sep 01 23:48	21°♂01'24	0°20'47
desc. node	11277 Oct 16 12:12	28°♂14'32			11278 Sep 06 05:07	0°♂	
evening max el	11277 Oct 18 03:54	29°♂55'46	23°25'11	evening rise	11278 Sep 09 06:48	6°♂31'59	
	11277 Oct 18 05:39	0°♂			11278 Sep 21 18:52	0°♂	
retrograde	11277 Oct 31 13:56	6°♂36'57		evening max el	11278 Sep 29 17:22	10°♂04'09	21°45'58
evening set	11277 Nov 04 22:20	5°♂55'50		desc. node	11278 Oct 03 09:31	13°♂10'22	
min. Earth dist.	11277 Nov 11 13:46	2°♂48'21	0.55397 AU	retrograde	11278 Oct 12 04:02	16°♂15'34	
inferior conj	11277 Nov 13 07:08	1°♂47'48	-5°48'54	evening set	11278 Oct 15 02:18	15°♂56'13	
minimum elong	11277 Nov 13 07:23	1°♂47'26	5°48'19	inferior conj	11278 Oct 24 01:23	11°♂59'32	-5°21'29
	11277 Nov 16 11:36	30°♂		minimum elong	11278 Oct 23 17:37	12°♂10'23	5°19'47
morning rise	11277 Nov 21 18:11	27°♂55'42		min. Earth dist.	11278 Oct 23 20:27	12°♂06'26	0.54632 AU
direct	11277 Nov 24 15:20	27°♂35'34		morning rise	11278 Nov 01 10:09	8°♂12'00	
	11277 Dec 02 01:24	0°♂		direct	11278 Nov 05 01:00	7°♂43'28	
morning max el	11277 Dec 05 10:37	2°♂42'55	20°26'37	morning max el	11278 Nov 17 08:28	13°♂34'21	22°00'42
asc. node	11277 Dec 10 00:26	7°♂55'50		asc. node	11278 Nov 26 21:23	25°♂39'54	
	11277 Dec 22 17:13	0°♂			11278 Nov 29 12:01	0°♂	
morning set	11277 Dec 24 02:44	2°♂51'03		morning set	11278 Dec 08 12:58	17°♂37'35	
					11278 Dec 14 08:40	0°♂	
superior conj	11277 Dec 31 15:38	18°♂22'18	1°22'35				
minimum elong	11277 Dec 31 18:08	18°♂34'57	1°23'00	superior conj	11278 Dec 15 15:38	2°♂43'42	1°34'15
max. Earth dist.	11278 Jan 06 01:08	29°♂01'55	1.36333 AU	minimum elong	11278 Dec 15 17:06	2°♂51'27	1°34'51
	11278 Jan 06 13:17	0°♂		max. Earth dist.	11278 Dec 19 14:29	10°♂54'56	1.34451 AU
evening rise	11278 Jan 09 21:19	6°♂14'03		evening rise	11278 Dec 23 22:31	19°♂29'26	
desc. node	11278 Jan 12 10:56	10°♂51'33			11278 Dec 29 14:51	0°♂	
	11278 Jan 24 01:32	0°♂		desc. node	11278 Dec 30 07:48	1°♂14'55	
evening max el	11278 Feb 14 10:03	27°♂34'52	25°59'12		11279 Jan 18 02:58	0°♂	
	11278 Feb 17 01:39	0°♂		evening max el	11279 Jan 27 23:33	11°♂16'57	26°54'05
retrograde	11278 Feb 27 00:40	4°♂46'47		retrograde	11279 Feb 10 05:20	18°♂39'35	
evening set	11278 Mar 05 03:20	2°♂17'24		evening set	11279 Feb 16 18:33	16°♂06'03	
	11278 Mar 07 11:50	30°♂		min. Earth dist.	11279 Feb 20 18:29	12°♂10'07	0.65825 AU
asc. node	11278 Mar 07 22:38	29°♂29'41		inferior conj	11279 Feb 22 20:09	9°♂46'38	0°00'11

minimum elong	11279 Feb 22 20:08	9° H 46'41	0°00'28	evening max el	11280 Jan 10 12:08	24° \approx 39'49	27°26'10
transit middle	11279 Feb 22 20:08	9° H 46'41	0°00'28		11280 Jan 17 09:02	0° H	
transit begin	11279 Feb 22 17:11	9° H 55'16		retrograde	11280 Jan 24 03:43	2° H 03'53	
transit end	11279 Feb 22 23:06	9° H 38'06			11280 Jan 30 09:08	30° $\text{R}\approx$	
asc. node	11279 Feb 22 19:56	9° H 47'17		evening set	11280 Jan 31 00:33	29° \approx 33'00	
morning rise	11279 Feb 28 23:00	4° H 10'26		min. Earth dist.	11280 Feb 03 20:04	26° \approx 08'37	0.64148 AU
direct	11279 Mar 03 18:53	3° H 26'43		inferior conj	11280 Feb 06 09:08	23° \approx 28'24	-1°06'05
morning max el	11279 Mar 10 04:33	6° H 49'33	18°09'51	minimum elong	11280 Feb 06 11:12	23° \approx 22'58	1°04'45
	11279 Mar 26 06:44	0° Y		asc. node	11280 Feb 09 17:12	20° \approx 13'17	
desc. node	11279 Mar 28 08:47	3° Y 22'17		morning rise	11280 Feb 12 23:50	18° \approx 06'22	
morning set	11279 Mar 29 01:28	4° Y 29'42		direct	11280 Feb 15 11:24	17° \approx 35'18	
				morning max el	11280 Feb 21 21:51	20° \approx 55'20	17°50'10
superior conj	11279 Apr 13 03:35	28° Y 32'23	-1°41'23		11280 Feb 28 20:56	0° H	
minimum elong	11279 Apr 12 18:08	27° Y 55'17	1°40'45	morning set	11280 Mar 09 18:49	16° H 21'14	
	11279 Apr 14 01:56	0° B		desc. node	11280 Mar 14 05:27	23° H 50'15	
max. Earth dist.	11279 Apr 15 07:38	1° B 56'15	1.45660 AU		11280 Mar 17 22:26	0° Y	
evening rise	11279 Apr 29 05:48	23° B 36'51					
	11279 May 03 08:35	0° II		superior conj	11280 Mar 23 00:03	8° Y 15'50	-1°02'49
greatest brilliancy	11279 May 11 05:48	12° II 05'28	-0.7m	minimum elong	11280 Mar 22 17:19	7° Y 48'43	1°01'57
asc. node	11279 May 21 17:34	26° II 28'23		max. Earth dist.	11280 Mar 28 02:37	16° Y 25'06	1.45023 AU
evening max el	11279 May 23 05:14	28° II 03'45	19°17'41		11280 Apr 05 19:43	0° B	
	11279 May 25 09:15	0° B		evening rise	11280 Apr 07 18:21	2° B 59'09	
retrograde	11279 May 30 05:58	2° B 00'33			11280 Apr 25 22:12	0° II	
evening set	11279 Jun 02 19:31	0° B 46'28		evening max el	11280 May 05 08:29	11° II 47'36	20°15'09
	11279 Jun 03 19:20	30° RII		asc. node	11280 May 07 14:44	13° II 51'25	
inferior conj	11279 Jun 08 05:41	24° II 55'55	3°15'24	retrograde	11280 May 13 04:38	16° II 18'57	
minimum elong	11279 Jun 08 06:09	24° II 54'22	3°14'42	evening set	11280 May 17 03:28	14° II 48'56	
min. Earth dist.	11279 Jun 09 15:20	23° II 06'16	0.66844 AU	inferior conj	11280 May 22 10:36	8° II 45'17	3°14'23
morning rise	11279 Jun 13 16:19	18° II 34'07		minimum elong	11280 May 22 10:00	8° II 47'21	3°13'45
direct	11279 Jun 19 19:25	15° II 53'12		min. Earth dist.	11280 May 23 06:01	7° II 39'03	0.67929 AU
desc. node	11279 Jun 24 09:15	17° II 06'24		morning rise	11280 May 27 16:14	2° II 25'50	
morning max el	11279 Jul 02 08:46	23° II 23'57	25°54'36		11280 Jun 01 06:53	30° RB	
	11279 Jul 08 05:23	0° B		direct	11280 Jun 02 07:48	29° B 55'16	
	11279 Jul 28 21:02	0° Q			11280 Jun 03 09:20	0° II	
morning set	11279 Aug 07 09:35	16° Q 35'33		desc. node	11280 Jun 10 06:17	3° II 33'32	
max. Earth dist.	11279 Aug 11 04:08	23° Q 40'46	1.35462 AU	morning max el	11280 Jun 13 18:33	6° II 47'22	24°30'24
	11279 Aug 14 09:53	0° R			11280 Jul 01 19:42	0° B	
				morning set	11280 Jul 19 12:05	28° B 23'40	
superior conj	11279 Aug 16 19:06	4° R 46'47	-0°08'59		11280 Jul 20 10:02	0° Q	
minimum elong	11279 Aug 16 19:39	4° R 49'34	0°09'13	max. Earth dist.	11280 Jul 23 02:45	4° Q 48'58	1.37597 AU
behind sun begin	11279 Aug 16 14:35	4° R 23'59					
behind sun end	11279 Aug 17 00:42	5° R 15'11		superior conj	11280 Jul 30 02:15	17° Q 53'04	-0°41'59
asc. node	11279 Aug 17 17:21	6° R 39'50		minimum elong	11280 Jul 30 05:03	18° Q 06'34	0°41'59
evening rise	11279 Aug 24 14:30	20° R 52'12		asc. node	11280 Aug 03 14:07	26° Q 42'27	
	11279 Aug 29 03:26	0° Q			11280 Aug 05 05:45	0° R	
evening max el	11279 Sep 11 18:17	20° Q 44'35	20°20'37	evening rise	11280 Aug 07 16:53	4° R 55'10	
desc. node	11279 Sep 20 06:52	25° Q 54'48			11280 Aug 22 08:54	0° Q	
retrograde	11279 Sep 22 16:24	26° Q 10'04		evening max el	11280 Aug 24 09:16	2° Q 12'41	19°15'37
evening set	11279 Sep 24 17:12	25° Q 59'36		retrograde	11280 Sep 02 14:59	6° Q 48'38	
inferior conj	11279 Oct 03 18:38	22° Q 02'25	-3°59'19	evening set	11280 Sep 04 11:12	6° Q 38'26	
minimum elong	11279 Oct 03 08:55	22° Q 16'41	3°56'07	desc. node	11280 Sep 06 04:14	6° Q 11'51	
min. Earth dist.	11279 Oct 05 04:51	21° Q 12'12	0.54798 AU	inferior conj	11280 Sep 13 00:55	2° Q 28'45	-2°08'23
morning rise	11279 Oct 11 23:55	17° Q 58'07		minimum elong	11280 Sep 12 19:16	2° Q 38'07	2°06'14
direct	11279 Oct 16 10:08	17° Q 15'52		min. Earth dist.	11280 Sep 15 17:00	0° Q 42'47	0.55885 AU
morning max el	11279 Oct 29 21:13	23° Q 49'19	23°47'23		11280 Sep 16 20:13	30° RR	
	11279 Nov 04 11:13	0° R		morning rise	11280 Sep 21 00:34	27° R 51'27	
asc. node	11279 Nov 13 18:17	14° R 08'47		direct	11280 Sep 26 06:36	26° R 48'11	
	11279 Nov 21 21:18	0° R			11280 Oct 05 12:21	0° Q	
morning set	11279 Nov 23 00:40	2° R 24'57		morning max el	11280 Oct 10 08:37	3° Q 56'37	25°31'14
					11280 Oct 28 22:00	0° R	
superior conj	11279 Nov 29 21:44	17° R 20'16	1°39'09	asc. node	11280 Oct 30 15:07	3° R 11'23	
minimum elong	11279 Nov 29 22:02	17° R 21'53	1°39'47	morning set	11280 Nov 06 12:09	17° R 08'37	
max. Earth dist.	11279 Dec 02 11:31	22° R 52'25	1.32979 AU		11280 Nov 12 08:58	0° R	
	11279 Dec 05 21:17	0° B					
evening rise	11279 Dec 07 11:49	3° B 15'21		superior conj	11280 Nov 13 07:37	2° R 05'14	1°37'48
desc. node	11279 Dec 17 04:45	21° B 22'13		minimum elong	11280 Nov 13 06:49	2° R 00'50	1°38'20
	11279 Dec 22 10:08	0° \approx		max. Earth dist.	11280 Nov 14 15:38	5° R 01'41	1.31981 AU

evening rise	11280 Nov 20 10:11	17°  24'16		evening rise	11281 Nov 04 14:55	1°  48'24	
	11280 Nov 26 19:09	0° 		desc. node	11281 Nov 19 22:57	0°  19'07	
desc. node	11280 Dec 03 01:48	11°  06'48			11281 Nov 19 18:06	0° 	
	11280 Dec 16 01:12	0° 		evening max el	11281 Dec 05 02:51	19°  41'03	26°57'53
evening max el	11280 Dec 22 22:09	7°  32'07	27°28'53	retrograde	11281 Dec 19 01:02	26°  50'50	
retrograde	11281 Jan 05 18:46	14°  50'29		evening set	11281 Dec 25 20:55	24°  51'02	
evening set	11281 Jan 12 18:33	12°  30'40		min. Earth dist.	11281 Dec 29 17:16	22°  11'16	0.60088 AU
min. Earth dist.	11281 Jan 16 12:01	9°  32'56	0.62198 AU	inferior conj	11282 Jan 01 21:12	19°  35'56	-3°37'30
inferior conj	11281 Jan 19 10:38	6°  47'54	-2°20'03	minimum elong	11282 Jan 02 04:30	19°  20'57	3°34'24
minimum elong	11281 Jan 19 15:22	6°  36'49	2°17'36	morning rise	11282 Jan 09 14:49	14°  51'04	
morning rise	11281 Jan 26 14:43	1°  42'50		direct	11282 Jan 11 17:29	14°  33'59	
asc. node	11281 Jan 26 14:26	1°  43'04		asc. node	11282 Jan 13 11:37	14°  46'17	
direct	11281 Jan 28 20:13	1°  20'34		morning max el	11282 Jan 19 04:45	18°  17'11	18°04'59
morning max el	11281 Feb 04 15:03	4°  47'38	17°48'08		11282 Jan 27 15:04	0° 	
morning set	11281 Feb 20 10:58	29°  17'42		morning set	11282 Feb 03 19:39	13°  00'11	
	11281 Feb 20 20:30	0° 			11282 Feb 13 01:37	0° 	
desc. node	11281 Mar 01 02:06	14°  25'57		superior conj	11282 Feb 13 16:12	1°  05'03	0°17'34
superior conj	11281 Mar 03 19:58	19°  06'16	-0°20'49	minimum elong	11282 Feb 13 17:36	1°  11'17	0°17'44
minimum elong	11281 Mar 03 17:58	18°  57'49	0°20'19	desc. node	11282 Feb 15 22:49	5°  05'55	
	11281 Mar 10 10:07	0° 		max. Earth dist.	11282 Feb 21 07:13	14°  14'54	1.41899 AU
max. Earth dist.	11281 Mar 10 18:55	0°  35'33	1.43723 AU	evening rise	11282 Feb 26 13:40	22°  52'58	
evening rise	11281 Mar 18 08:32	12°  34'13			11282 Mar 03 01:48	0° 	
	11281 Mar 29 21:33	0° 		evening max el	11282 Mar 23 23:10	0° 	
evening max el	11281 Apr 18 06:12	25°  32'41	21°25'08	retrograde	11282 Mar 31 23:20	9°  19'36	22°43'13
asc. node	11281 Apr 24 11:58	0°  11'47		asc. node	11282 Apr 10 23:36	15°  14'28	
	11281 Apr 24 01:09	0° 		evening set	11282 Apr 11 09:15	15°  13'41	
retrograde	11281 Apr 27 03:02	0°  45'03		inferior conj	11282 Apr 15 19:51	13°  13'34	
	11281 Apr 30 00:04	30°  08'08		minimum elong	11282 Apr 21 03:57	6°  49'57	2°39'29
evening set	11281 May 01 12:07	28°  59'14		min. Earth dist.	11282 Apr 21 01:56	6°  56'58	2°38'40
inferior conj	11281 May 06 18:42	22°  44'22	3°02'01	morning rise	11282 Apr 20 21:18	7°  13'05	0.68718 AU
minimum elong	11281 May 06 17:14	22°  49'29	3°01'19		11282 Apr 26 07:54	0°  40'59	
min. Earth dist.	11281 May 07 00:43	22°  23'24	0.68554 AU	direct	11282 Apr 27 05:39	30°  08'00	
morning rise	11281 May 11 22:08	16°  29'27		morning max el	11282 Apr 30 21:10	28°  48'00	
direct	11281 May 17 00:45	14°  15'47		desc. node	11282 May 04 20:32	0° 	
morning max el	11281 May 27 04:43	20°  17'39	23°00'36		11282 May 09 18:38	3°  57'40	21°34'10
desc. node	11281 May 28 03:14	21°  15'45		morning set	11282 May 15 00:06	9°  52'50	
	11281 Jun 04 11:04	0° 			11282 May 29 12:20	0° 	
	11281 Jun 25 00:33	0° 		max. Earth dist.	11282 Jun 10 16:45	18°  40'51	
morning set	11281 Jun 30 15:27	9°  07'20			11282 Jun 17 02:10	29°  01'03	1.42105 AU
max. Earth dist.	11281 Jul 04 23:56	16°  08'21	1.39908 AU		11282 Jun 17 16:26	0° 	
superior conj	11281 Jul 12 18:18	0°  15'39	-1°15'36	superior conj	11282 Jun 24 14:48	11°  04'46	-1°45'55
minimum elong	11281 Jul 12 23:32	0°  39'37	1°15'27	minimum elong	11282 Jun 24 21:26	12°  13'32	1°45'55
	11281 Jul 12 14:53	0° 			11282 Jul 04 20:02	0° 	
asc. node	11281 Jul 21 10:56	16°  03'37		evening rise	11282 Jul 05 16:39	1°  03'40'1	
evening rise	11281 Jul 22 10:52	18°  02'05		asc. node	11282 Jul 08 07:51	6°  02'13'8	
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evening max el	11281 Aug 07 11:42	14°  07'24'33	18°31'53		11282 Jul 25 17:37	0° 	
retrograde	11281 Aug 15 07:52	18°  07'20'37		retrograde	11282 Jul 28 19:30	0°  07'42'35	
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desc. node	11281 Aug 24 01:36	14°  07'26'17			11282 Jul 31 23:12	30°  08'02'0	
inferior conj	11281 Aug 25 03:48	13°  07'36'03	-0°20'17	inferior conj	11282 Aug 07 04:09	25°  08'28'27	1°06'53
minimum elong	11281 Aug 25 03:01	13°  07'37'36	0°20'14	minimum elong	11282 Aug 07 06:09	25°  08'23'56	1°05'44
min. Earth dist.	11281 Aug 28 10:21	11°  04'45	0.57682 AU	min. Earth dist.	11282 Aug 10 11:12	22°  08'30'49	0.59872 AU
morning rise	11281 Sep 01 17:49	8°  07'21'36		desc. node	11282 Aug 10 22:56	22°  08'05'59	
direct	11281 Sep 07 17:13	6°  07'51'17		morning rise	11282 Aug 14 05:28	19°  08'42'38	
morning max el	11281 Sep 22 00:57	14°  07'25'19	26°54'55	direct	11282 Aug 20 16:45	17°  08'43'39	
	11281 Oct 04 12:37	0° 		morning max el	11282 Sep 04 00:45	25°  08'35'40	27°45'13
asc. node	11281 Oct 17 11:55	22°  08'38'12			11282 Sep 08 02:56	0° 	
	11281 Oct 21 02:11	0° 			11282 Sep 27 23:39	0° 	
morning set	11281 Oct 21 21:43	1°  08'43'23		asc. node	11282 Oct 04 08:41	12°  08'22'29	
superior conj	11281 Oct 28 19:12	16°  08'51'35	1°30'37	morning set	11282 Oct 06 03:38	16°  08'20'41	
minimum elong	11281 Oct 28 17:33	16°  08'42'22	1°30'55	max. Earth dist.	11282 Oct 12 09:10	29°  08'23'41	1.31436 AU
max. Earth dist.	11281 Oct 29 00:05	17°  08'18'48	1.31465 AU		11282 Oct 12 13:44	0° 	
	11281 Nov 03 18:36	0° 		superior conj	11282 Oct 13 06:40	1°  08'33'59	1°17'53




























































































































minimum elong	11282 Oct 13 04:30	1° \mathbb{M} 21'59	1°17'54	superior conj	11283 Sep 27 16:09	16° \mathbb{A} 07'07	0°59'49
evening rise	11282 Oct 19 23:48	16° \mathbb{M} 21'38		minimum elong	11283 Sep 27 13:57	15° \mathbb{A} 55'02	0°59'35
	11282 Oct 26 16:10	0° \mathbb{A}			11283 Oct 03 23:59	0° \mathbb{M}	
desc. node	11282 Nov 06 20:09	18° \mathbb{A} 46'28		evening rise	11283 Oct 04 10:51	0° \mathbb{M} 58'32	
	11282 Nov 15 23:50	0° \mathbb{B}			11283 Oct 20 03:41	0° \mathbb{A}	
evening max el	11282 Nov 16 23:34	0° \mathbb{B} 57'49	25°53'19	desc. node	11283 Oct 24 17:24	6° \mathbb{A} 11'35	
retrograde	11282 Nov 30 21:08	7° \mathbb{B} 59'39		evening max el	11283 Oct 29 12:29	11° \mathbb{A} 27'18	24°23'00
evening set	11282 Dec 07 03:12	6° \mathbb{B} 27'56		retrograde	11283 Nov 12 05:43	18° \mathbb{A} 19'24	
min. Earth dist.	11282 Dec 11 12:11	3° \mathbb{B} 52'05	0.57998 AU	evening set	11283 Nov 17 09:34	17° \mathbb{A} 20'34	
inferior conj	11282 Dec 14 13:19	1° \mathbb{B} 42'23	-4°49'19	min. Earth dist.	11283 Nov 22 23:36	14° \mathbb{A} 29'51	0.56187 AU
minimum elong	11282 Dec 14 21:26	1° \mathbb{B} 27'57	4°46'42	inferior conj	11283 Nov 25 08:57	13° \mathbb{A} 00'38	-5°38'59
	11282 Dec 17 00:51	30° \mathbb{R} \mathbb{A}		minimum elong	11283 Nov 25 13:33	12° \mathbb{A} 53'28	5°37'53
morning rise	11282 Dec 22 18:10	27° \mathbb{A} 20'10		morning rise	11283 Dec 03 19:39	8° \mathbb{A} 59'43	
direct	11282 Dec 24 22:41	27° \mathbb{A} 04'53		direct	11283 Dec 06 08:26	8° \mathbb{A} 42'42	
asc. node	11282 Dec 31 08:46	29° \mathbb{A} 25'55		morning max el	11283 Dec 16 06:35	13° \mathbb{A} 26'33	19°41'58
	11283 Jan 01 02:18	0° \mathbb{B}		asc. node	11283 Dec 18 05:51	15° \mathbb{A} 30'22	
morning max el	11283 Jan 02 11:11	1° \mathbb{B} 13'36	18°42'20		11283 Dec 27 18:36	0° \mathbb{B}	
morning set	11283 Jan 18 15:44	27° \mathbb{B} 12'55		morning set	11284 Jan 02 19:26	11° \mathbb{B} 45'14	
	11283 Jan 20 02:01	0° \mathbb{A}					
superior conj	11283 Jan 27 08:44	14° \mathbb{A} 00'24	0°49'00	superior conj	11284 Jan 10 16:45	27° \mathbb{B} 38'47	1°12'32
minimum elong	11283 Jan 27 11:36	14° \mathbb{A} 13'49	0°49'07	minimum elong	11284 Jan 10 19:38	27° \mathbb{B} 53'00	1°12'49
desc. node	11283 Feb 02 19:33	25° \mathbb{A} 46'11			11284 Jan 11 21:30	0° \mathbb{A}	
max. Earth dist.	11283 Feb 03 15:05	27° \mathbb{A} 12'07	1.39753 AU	max. Earth dist.	11284 Jan 16 21:07	9° \mathbb{A} 29'43	1.37540 AU
	11283 Feb 05 05:42	0° \mathbb{H}		evening rise	11284 Jan 20 14:26	16° \mathbb{A} 14'56	
evening rise	11283 Feb 07 15:36	4° \mathbb{H} 06'46		desc. node	11284 Jan 20 16:21	16° \mathbb{A} 23'26	
	11283 Feb 24 06:04	0° \mathbb{Y}			11284 Jan 28 17:08	0° \mathbb{H}	
evening max el	11283 Mar 14 13:33	23° \mathbb{Y} 08'13	24°03'44		11284 Feb 18 18:53	0° \mathbb{Y}	
retrograde	11283 Mar 25 17:04	29° \mathbb{Y} 41'23		evening max el	11284 Feb 25 02:50	6° \mathbb{Y} 58'21	25°20'02
asc. node	11283 Mar 29 06:34	28° \mathbb{Y} 42'40		retrograde	11284 Mar 08 06:23	14° \mathbb{Y} 00'09	
evening set	11283 Mar 31 01:07	27° \mathbb{Y} 27'02		evening set	11284 Mar 14 02:19	11° \mathbb{Y} 35'08	
min. Earth dist.	11283 Apr 04 17:36	22° \mathbb{Y} 01'58	0.68437 AU	asc. node	11284 Mar 15 03:53	10° \mathbb{Y} 36'25	
inferior conj	11283 Apr 05 12:28	20° \mathbb{Y} 58'01	2°07'16	min. Earth dist.	11284 Mar 18 11:31	6° \mathbb{Y} 45'04	0.67734 AU
minimum elong	11283 Apr 05 10:18	21° \mathbb{Y} 05'22	2°06'27	inferior conj	11284 Mar 19 18:21	5° \mathbb{Y} 05'10	1°25'31
morning rise	11283 Apr 10 19:33	14° \mathbb{Y} 56'06		minimum elong	11284 Mar 19 16:31	5° \mathbb{Y} 11'07	1°24'52
direct	11283 Apr 14 19:46	13° \mathbb{Y} 24'52			11284 Mar 24 05:51	30° \mathbb{R} \mathbb{H}	
morning max el	11283 Apr 22 15:13	17° \mathbb{Y} 49'17	20°17'40	morning rise	11284 Mar 25 07:08	29° \mathbb{H} 11'37	
desc. node	11283 May 01 20:53	29° \mathbb{Y} 09'20		direct	11284 Mar 28 19:17	28° \mathbb{H} 00'59	
	11283 May 02 11:30	0° \mathbb{B}			11284 Apr 02 16:26	0° \mathbb{Y}	
morning set	11283 May 20 20:49	27° \mathbb{B} 19'57		morning max el	11284 Apr 04 19:33	1° \mathbb{Y} 51'49	19°15'10
	11283 May 22 14:10	0° \mathbb{H}		greatest brilliancy	11284 Apr 17 16:30	18° \mathbb{Y} 50'29	-0.7m
max. Earth dist.	11283 May 30 11:05	12° \mathbb{H} 24'25	1.43918 AU	desc. node	11284 Apr 17 17:37	18° \mathbb{Y} 54'39	
					11284 Apr 25 01:02	0° \mathbb{B}	
superior conj	11283 Jun 05 11:45	22° \mathbb{H} 11'47	-2°07'14	morning set	11284 Apr 28 21:57	5° \mathbb{B} 57'32	
minimum elong	11283 Jun 05 16:33	22° \mathbb{H} 31'34	2°07'41	max. Earth dist.	11284 May 12 01:41	26° \mathbb{B} 26'01	1.45153 AU
	11283 Jun 10 04:05	0° \mathbb{B}			11284 May 14 07:57	0° \mathbb{H}	
evening rise	11283 Jun 18 05:26	13° \mathbb{B} 48'52		superior conj	11284 May 15 09:25	1° \mathbb{H} 40'49	-2°12'49
asc. node	11283 Jun 25 04:48	25° \mathbb{B} 48'56		minimum elong	11284 May 15 07:49	1° \mathbb{H} 34'31	2°13'23
	11283 Jun 27 17:56	0° \mathbb{H}		evening rise	11284 May 29 20:23	25° \mathbb{H} 05'56	
evening max el	11283 Jul 05 11:01	10° \mathbb{H} 23'54	18°04'42		11284 Jun 01 19:35	0° \mathbb{B}	
retrograde	11283 Jul 11 21:43	13° \mathbb{H} 44'44		asc. node	11284 Jun 11 01:49	14° \mathbb{B} 53'08	
evening set	11283 Jul 14 13:54	13° \mathbb{H} 09'08		evening max el	11284 Jun 18 00:40	23° \mathbb{B} 52'50	18°19'22
inferior conj	11283 Jul 20 22:45	7° \mathbb{H} 59'52	2°09'04	retrograde	11284 Jun 24 09:59	27° \mathbb{B} 17'18	
minimum elong	11283 Jul 21 01:27	7° \mathbb{H} 52'50	2°07'44	evening set	11284 Jun 27 10:13	26° \mathbb{B} 27'44	
min. Earth dist.	11283 Jul 23 21:13	4° \mathbb{H} 58'28	0.62138 AU	inferior conj	11284 Jul 03 07:24	21° \mathbb{B} 01'24	2°48'48
morning rise	11283 Jul 27 10:48	1° \mathbb{H} 53'07		minimum elong	11284 Jul 03 09:35	20° \mathbb{B} 55'05	2°47'43
desc. node	11283 Jul 28 20:13	0° \mathbb{H} 59'24		min. Earth dist.	11284 Jul 05 16:35	18° \mathbb{B} 16'52	0.64241 AU
	11283 Jul 31 00:52	30° \mathbb{R} \mathbb{B}		morning rise	11284 Jul 09 07:37	14° \mathbb{B} 43'42	
direct	11283 Aug 03 03:17	29° \mathbb{B} 29'38		desc. node	11284 Jul 14 17:25	12° \mathbb{B} 09'57	
	11283 Aug 06 08:51	0° \mathbb{H}		direct	11284 Jul 15 22:58	12° \mathbb{B} 04'46	
morning max el	11283 Aug 17 06:55	7° \mathbb{H} 31'48	27°56'55	morning max el	11284 Jul 29 16:38	20° \mathbb{B} 05'52	27°31'50
	11283 Sep 03 11:12	0° \mathbb{H}			11284 Aug 07 04:12	0° \mathbb{H}	
morning set	11283 Sep 20 03:52	0° \mathbb{A} 07'13			11284 Aug 26 12:33	0° \mathbb{H}	
	11283 Sep 20 02:27	0° \mathbb{A}		morning set	11284 Sep 02 19:51	13° \mathbb{H} 43'32	
asc. node	11283 Sep 21 05:26	2° \mathbb{A} 18'42		asc. node	11284 Sep 07 02:09	22° \mathbb{H} 21'31	
max. Earth dist.	11283 Sep 25 14:57	11° \mathbb{A} 38'39	1.31904 AU	max. Earth dist.	11284 Sep 07 13:25	23° \mathbb{H} 20'07	1.32891 AU

superior conj	11284 Sep 10 21:36	0° Ω 24'29	0°36'40	superior conj	11285 Aug 25 20:45	14° Π 20'20	0°08'53
minimum elong	11284 Sep 10 19:56	0° Ω 15'31	0°36'17	minimum elong	11285 Aug 25 20:17	14° Π 17'55	0°08'32
	11284 Sep 10 17:02	0° Ω		behind sun begin	11285 Aug 25 15:19	13° Π 52'10	
evening rise	11284 Sep 17 22:07	15° Ω 32'59		behind sun end	11285 Aug 26 01:15	14° Π 43'43	
	11284 Sep 25 01:35	0° Π		evening rise	11285 Sep 02 07:44	0° Ω 00'16	
evening max el	11284 Oct 09 23:10	21° Π 33'11	22°42'07		11285 Sep 02 07:41	0° Ω	
desc. node	11284 Oct 10 14:43	22° Π 10'12			11285 Sep 19 22:24	0° Π	
retrograde	11284 Oct 23 01:38	28° Π 04'11		evening max el	11285 Sep 21 16:57	1° Π 52'42	21°07'31
evening set	11284 Oct 26 18:31	27° Π 34'12		desc. node	11285 Sep 27 12:02	6° Π 13'52	
min. Earth dist.	11284 Nov 03 07:19	24° Π 10'25	0.54964 AU	retrograde	11285 Oct 03 13:03	7° Π 45'14	
inferior conj	11284 Nov 04 10:10	23° Π 32'12	-5°44'37	evening set	11285 Oct 06 00:07	7° Π 31'02	
minimum elong	11284 Nov 04 06:43	23° Π 37'07	5°43'52	inferior conj	11285 Oct 15 02:11	3° Π 36'09	-4°52'17
morning rise	11284 Nov 12 20:29	19° Π 43'58		minimum elong	11285 Oct 14 16:36	3° Π 49'39	4°49'43
direct	11284 Nov 16 00:32	19° Π 20'52		min. Earth dist.	11285 Oct 15 14:31	3° Π 18'46	0.54592 AU
morning max el	11284 Nov 27 12:09	24° Π 47'09	21°04'16		11285 Oct 22 12:26	30° \mathbb{R} Ω	
	11284 Dec 02 03:30	0° \mathbb{X}		morning rise	11285 Oct 23 09:32	29° Ω 43'57	
asc. node	11284 Dec 04 02:50	2° \mathbb{X} 42'22		direct	11285 Oct 27 08:48	29° Ω 10'05	
morning set	11284 Dec 17 03:56	26° \mathbb{X} 28'05			11285 Nov 01 01:22	0° Π	
	11284 Dec 18 20:33	0° \mathbb{Z}		morning max el	11285 Nov 09 05:07	5° Π 19'39	22°45'06
				asc. node	11285 Nov 20 23:45	20° Π 46'52	
superior conj	11284 Dec 24 11:53	11° \mathbb{Z} 47'02	1°28'24		11285 Nov 26 02:22	0° \mathbb{X}	
minimum elong	11284 Dec 24 13:59	11° \mathbb{Z} 57'52	1°28'53	morning set	11285 Dec 01 15:02	11° \mathbb{X} 15'21	
max. Earth dist.	11284 Dec 29 06:25	21° \mathbb{Z} 24'44	1.35492 AU				
evening rise	11285 Jan 02 07:05	29° \mathbb{Z} 08'35		superior conj	11285 Dec 08 14:48	26° \mathbb{X} 15'27	1°37'07
	11285 Jan 02 18:06	0° \approx		minimum elong	11285 Dec 08 15:46	26° \mathbb{X} 20'39	1°37'44
desc. node	11285 Jan 06 13:12	6° \approx 53'02			11285 Dec 10 09:07	0° \mathbb{Z}	
	11285 Jan 20 22:24	0° \mathbb{X}		max. Earth dist.	11285 Dec 11 23:05	3° \mathbb{Z} 18'31	1.33781 AU
evening max el	11285 Feb 06 16:23	20° \mathbb{X} 45'50	26°24'55	evening rise	11285 Dec 16 13:52	12° \mathbb{Z} 38'03	
retrograde	11285 Feb 19 14:29	28° \mathbb{X} 04'03		desc. node	11285 Dec 24 10:07	27° \mathbb{Z} 10'13	
evening set	11285 Feb 25 21:43	25° \mathbb{X} 32'24			11285 Dec 26 01:30	0° \approx	
min. Earth dist.	11285 Mar 02 00:52	21° \mathbb{X} 16'45	0.66628 AU		11286 Jan 16 01:45	0° \mathbb{X}	
asc. node	11285 Mar 02 01:11	21° \mathbb{X} 15'47		evening max el	11286 Jan 20 05:56	4° \mathbb{X} 21'47	27°10'57
inferior conj	11285 Mar 03 19:35	19° \mathbb{X} 07'13	0°34'08	retrograde	11286 Feb 02 16:29	11° \mathbb{X} 45'17	
minimum elong	11285 Mar 03 18:42	19° \mathbb{X} 09'53	0°33'59	evening set	11286 Feb 09 09:17	9° \mathbb{X} 12'21	
morning rise	11285 Mar 09 16:35	13° \mathbb{X} 23'47		min. Earth dist.	11286 Feb 13 07:19	5° \mathbb{X} 29'59	0.65154 AU
direct	11285 Mar 12 17:58	12° \mathbb{X} 31'10		inferior conj	11286 Feb 15 13:50	2° \mathbb{X} 58'28	-0°26'50
morning max el	11285 Mar 19 06:44	16° \mathbb{X} 00'54	18°28'47	minimum elong	11286 Feb 15 14:36	2° \mathbb{X} 56'17	0°26'08
	11285 Mar 29 19:17	0° \mathbb{Y}		asc. node	11286 Feb 16 22:28	1° \mathbb{X} 29'08	
desc. node	11285 Apr 04 14:19	9° \mathbb{Y} 01'08			11286 Feb 18 09:43	30° \mathbb{R} \approx	
morning set	11285 Apr 08 18:34	15° \mathbb{Y} 37'03		morning rise	11286 Feb 21 21:27	27° \approx 27'39	
	11285 Apr 17 21:40	0° \mathbb{Z}		direct	11286 Feb 24 13:38	26° \approx 49'39	
					11286 Mar 02 18:28	0° \mathbb{X}	
superior conj	11285 Apr 24 16:59	10° \mathbb{Z} 39'08	-1°58'15	morning max el	11286 Mar 02 22:35	0° \mathbb{X} 09'58	17°59'17
minimum elong	11285 Apr 24 08:44	10° \mathbb{Z} 06'51	1°58'05	morning set	11286 Mar 20 20:08	26° \mathbb{X} 42'57	
max. Earth dist.	11285 Apr 24 20:16	10° \mathbb{Z} 51'57	1.45689 AU	desc. node	11286 Mar 22 10:59	29° \mathbb{X} 22'38	
	11285 May 07 01:12	0° Π			11286 Mar 22 20:05	0° \mathbb{Y}	
evening rise	11285 May 10 11:10	5° Π 23'26		superior conj	11286 Apr 04 03:50	19° \mathbb{Y} 52'49	-1°26'01
greatest brilliancy	11285 May 19 14:40	19° Π 48'34	-0.8m	minimum elong	11286 Apr 03 18:58	19° \mathbb{Y} 17'42	1°25'11
	11285 May 26 09:44	0° \mathbb{Z}		max. Earth dist.	11286 Apr 07 16:28	25° \mathbb{Y} 26'25	1.45480 AU
asc. node	11285 May 28 22:54	3° \mathbb{Z} 26'40			11286 Apr 10 14:24	0° \mathbb{Z}	
evening max el	11285 Jun 01 11:49	7° \mathbb{Z} 31'43	18°51'41	evening rise	11286 Apr 20 06:00	14° \mathbb{Z} 56'44	
retrograde	11285 Jun 08 04:30	11° \mathbb{Z} 12'57			11286 Apr 30 02:28	0° Π	
evening set	11285 Jun 11 13:07	10° \mathbb{Z} 07'57		greatest brilliancy	11286 May 04 02:02	5° Π 56'49	-0.7m
inferior conj	11285 Jun 17 02:21	4° \mathbb{Z} 26'02	3°10'04	asc. node	11286 May 15 20:03	21° Π 18'45	
minimum elong	11285 Jun 17 03:29	4° \mathbb{Z} 22'27	3°09'17	evening max el	11286 May 15 18:20	21° Π 14'25	19°40'27
min. Earth dist.	11285 Jun 18 20:37	2° \mathbb{Z} 13'32	0.66013 AU	retrograde	11286 May 23 02:20	25° Π 24'22	
	11285 Jun 20 18:15	30° \mathbb{R} Π		evening set	11286 May 26 19:50	24° Π 03'21	
morning rise	11285 Jun 22 17:10	28° Π 04'33		inferior conj	11286 Jun 01 04:22	18° Π 07'06	3°16'27
direct	11285 Jun 29 01:58	25° Π 21'16		minimum elong	11286 Jun 01 04:22	18° Π 07'06	3°15'48
desc. node	11285 Jul 01 14:33	25° Π 43'32		min. Earth dist.	11286 Jun 02 07:50	16° Π 35'39	0.67363 AU
	11285 Jul 08 19:15	0° \mathbb{Z}		morning rise	11286 Jun 06 12:33	11° Π 46'15	
morning max el	11285 Jul 12 03:21	3° \mathbb{Z} 07'00	26°36'37	direct	11286 Jun 12 11:04	9° Π 08'52	
	11285 Aug 01 11:09	0° \mathbb{Z}		desc. node	11286 Jun 18 11:38	11° Π 15'17	
morning set	11285 Aug 17 00:31	26° \mathbb{Z} 46'04		morning max el	11286 Jun 24 13:33	16° Π 24'07	25°20'10
	11285 Aug 18 17:08	0° Π			11286 Jul 05 19:49	0° \mathbb{Z}	
max. Earth dist.	11285 Aug 21 02:00	4° Π 37'58	1.34391 AU		11286 Jul 25 09:36	0° \mathbb{Z}	
asc. node	11285 Aug 24 22:53	12° Π 27'22					

morning set	11286 Jul 30 13:51	9°Ω03'49		max. Earth dist.	11287 Jul 16 02:22	27°Ω02'02	1.38577 AU
max. Earth dist.	11286 Aug 03 04:54	15°Ω43'18	1.36337 AU		11287 Jul 17 18:17	0°Ω	
superior conj	11286 Aug 09 10:41	27°Ω46'26	-0°22'43	superior conj	11287 Jul 23 11:53	10°Ω34'28	-0°56'23
minimum elong	11286 Aug 09 12:07	27°Ω53'35	0°22'51	minimum elong	11287 Jul 23 15:45	10°Ω52'41	0°56'17
	11286 Aug 10 13:27	0°Π		asc. node	11287 Jul 29 16:27	22°Ω31'23	
asc. node	11286 Aug 11 19:38	2°Π31'50		evening rise	11287 Aug 01 12:41	28°Ω06'07	
evening rise	11286 Aug 17 13:28	14°Π13'35			11287 Aug 02 11:59	0°Π	
	11286 Aug 25 18:24	0°Ω		evening max el	11287 Aug 17 20:01	24°Π38'27	18°54'25
evening max el	11286 Sep 03 23:51	12°Ω52'02	19°50'20	retrograde	11287 Aug 26 10:28	28°Π56'21	
retrograde	11286 Sep 14 04:13	17°Ω55'56		evening set	11287 Aug 28 07:50	28°Π44'41	
desc. node	11286 Sep 14 09:23	17°Ω55'48		desc. node	11287 Sep 01 06:46	27°Π13'30	
evening set	11286 Sep 16 01:38	17°Ω46'13		inferior conj	11287 Sep 05 13:57	24°Π26'45	-1°20'43
inferior conj	11286 Sep 24 23:25	13°Ω44'42	-3°13'46	minimum elong	11287 Sep 05 10:31	24°Π32'50	1°19'29
minimum elong	11286 Sep 24 14:59	13°Ω57'38	3°10'42	min. Earth dist.	11287 Sep 08 13:56	22°Π19'43	0.56572 AU
min. Earth dist.	11286 Sep 26 23:51	12°Ω30'30	0.55160 AU	morning rise	11287 Sep 13 09:57	19°Π33'13	
morning rise	11286 Oct 03 02:47	9°Ω28'10		direct	11287 Sep 18 23:34	18°Π19'17	
direct	11286 Oct 07 21:38	8°Ω38'00		morning max el	11287 Oct 03 05:19	25°Π39'51	26°10'27
morning max el	11286 Oct 21 16:11	15°Ω26'31	24°33'00		11287 Oct 07 07:15	0°Ω	
	11286 Nov 02 05:45	0°Π		asc. node	11287 Oct 25 17:26	28°Ω44'50	
asc. node	11286 Nov 07 20:37	9°Π31'10			11287 Oct 26 08:50	0°Π	
morning set	11286 Nov 16 02:53	26°Π01'57		morning set	11287 Oct 31 13:46	10°Π42'29	
	11286 Nov 17 23:01	0°♄					
superior conj	11286 Nov 22 22:47	10°♄56'19	1°39'18	superior conj	11287 Nov 07 09:37	25°Π42'29	1°35'26
minimum elong	11286 Nov 22 22:36	10°♄55'18	1°39'55	minimum elong	11287 Nov 07 08:26	25°Π35'50	1°35'54
max. Earth dist.	11286 Nov 24 23:41	15°♄22'27	1.32500 AU	max. Earth dist.	11287 Nov 08 06:04	27°Π35'51	1.31694 AU
evening rise	11286 Nov 30 07:25	26°♄34'42			11287 Nov 09 08:09	0°♄	
	11286 Dec 02 00:12	0°♄		evening rise	11287 Nov 14 08:45	10°♄50'30	
desc. node	11286 Dec 11 07:08	17°♄09'06			11287 Nov 24 05:55	0°♄	
	11286 Dec 19 09:54	0°♄		desc. node	11287 Nov 28 04:13	6°♄41'23	
evening max el	11287 Jan 02 17:51	17°♄33'52	27°31'11		11287 Dec 15 22:11	0°♄	
retrograde	11287 Jan 16 11:38	24°♄55'21		evening max el	11287 Dec 16 01:42	0°♄08'21	27°19'53
evening set	11287 Jan 23 10:37	22°♄28'04		retrograde	11287 Dec 29 23:13	7°♄23'45	
min. Earth dist.	11287 Jan 27 04:54	19°♄15'59	0.63353 AU	evening set	11288 Jan 05 22:31	5°♄10'56	
inferior conj	11287 Jan 29 22:23	16°♄32'17	-1°36'37	min. Earth dist.	11288 Jan 09 16:10	2°♄22'32	0.61313 AU
minimum elong	11287 Jan 30 01:32	16°♄24'24	1°34'49		11288 Jan 12 08:44	30°♄	
asc. node	11287 Feb 03 19:43	12°♄17'23		inferior conj	11288 Jan 12 17:58	29°♄39'24	-2°52'50
morning rise	11287 Feb 05 18:38	11°♄17'06		minimum elong	11288 Jan 12 23:52	29°♄26'19	2°50'00
direct	11287 Feb 08 03:26	10°♄50'07		morning rise	11288 Jan 20 03:57	24°♄42'57	
morning max el	11287 Feb 14 16:18	14°♄11'35	17°47'07	asc. node	11288 Jan 21 16:57	24°♄24'59	
	11287 Feb 25 16:58	0°♄		direct	11288 Jan 22 07:47	24°♄23'21	
morning set	11287 Mar 03 00:05	9°♄05'20		morning max el	11288 Jan 29 08:33	27°♄55'54	17°52'57
desc. node	11287 Mar 09 07:39	19°♄54'43			11288 Jan 31 06:02	0°♄	
				morning set	11288 Feb 13 23:58	22°♄23'17	
superior conj	11287 Mar 15 09:46	0°♄03'56	-0°44'55		11288 Feb 18 05:01	0°♄	
minimum elong	11287 Mar 15 05:05	29°♄44'39	0°44'11	desc. node	11288 Feb 24 04:20	10°♄32'37	
	11287 Mar 15 08:49	0°♄					
max. Earth dist.	11287 Mar 21 11:14	9°♄51'53	1.44550 AU	superior conj	11288 Feb 24 16:25	11°♄24'51	-0°03'53
evening rise	11287 Mar 30 17:29	24°♄20'31		minimum elong	11288 Feb 24 16:06	11°♄23'26	0°03'33
	11287 Apr 03 10:26	0°♄		behind sun begin	11288 Feb 24 07:54	10°♄48'04	
	11287 Apr 24 10:13	0°♄		behind sun end	11288 Feb 25 00:17	11°♄58'44	
evening max el	11287 Apr 28 19:10	4°♄58'35	20°43'31	max. Earth dist.	11288 Mar 03 01:45	23°♄49'52	1.43000 AU
asc. node	11287 May 02 17:15	8°♄17'02			11288 Mar 06 21:20	0°♄	
retrograde	11287 May 07 01:10	9°♄46'48		evening rise	11288 Mar 09 12:45	4°♄11'04	
evening set	11287 May 11 04:20	8°♄09'46			11288 Mar 26 19:16	0°♄	
inferior conj	11287 May 16 10:55	2°♄00'53	3°10'27	evening max el	11288 Apr 10 14:37	18°♄43'41	21°57'33
minimum elong	11287 May 16 09:55	2°♄04'20	3°09'46	asc. node	11288 Apr 18 14:31	24°♄05'59	
min. Earth dist.	11287 May 17 00:27	1°♄14'13	0.68255 AU	retrograde	11288 Apr 19 23:08	24°♄14'53	
	11287 May 17 22:13	30°♄		evening set	11288 Apr 24 12:49	22°♄22'31	
morning rise	11287 May 21 15:18	25°♄43'15		inferior conj	11288 Apr 29 19:47	16°♄03'17	2°53'41
direct	11287 May 27 01:23	23°♄19'32		minimum elong	11288 Apr 29 18:03	16°♄09'22	2°52'55
desc. node	11287 Jun 05 08:39	28°♄17'07		min. Earth dist.	11288 Apr 29 20:19	16°♄01'27	0.68679 AU
morning max el	11287 Jun 06 23:24	29°♄50'58	23°52'20	morning rise	11288 May 04 23:06	9°♄50'34	
	11287 Jun 07 02:57	0°♄		direct	11288 May 09 19:55	7°♄45'35	
	11287 Jun 29 15:43	0°♄		morning max el	11288 May 19 10:52	13°♄25'30	22°22'54
morning set	11287 Jul 12 07:04	20°♄25'18		desc. node	11288 May 22 05:33	16°♄24'46	
					11288 Jun 01 18:09	0°♄	

morning set	11288 Jun 21 23:31	0°☿39'30		desc. node	11289 May 09 02:23	5°♄19'57	
	11288 Jun 21 13:46	0°☿			11289 May 26 06:25	0°♄	
max. Earth dist.	11288 Jun 27 00:50	9°☿01'29	1.40869 AU	morning set	11289 Jun 01 14:19	9°♄45'15	
				max. Earth dist.	11289 Jun 09 05:22	21°♄54'45	1.42937 AU
					11289 Jun 14 03:04	0°☿	
superior conj	11288 Jul 04 20:10	22°☿35'14	-1°29'10				
minimum elong	11288 Jul 05 02:14	23°☿02'23	1°29'02				
	11288 Jul 08 22:08	0°♄		superior conj	11289 Jun 16 06:59	3°☿38'32	-1°56'28
evening rise	11288 Jul 15 02:02	11°♄29'29		minimum elong	11289 Jun 16 13:23	4°☿05'39	1°56'39
asc. node	11288 Jul 15 13:19	12°♄22'22		evening rise	11289 Jun 28 01:11	24°☿12'22	
	11288 Jul 25 13:11	0°♄			11289 Jul 01 07:10	0°♄	
evening max el	11288 Jul 31 02:07	7°♄06'31	18°19'35	asc. node	11289 Jul 02 10:15	1°♄59'44	
retrograde	11288 Aug 07 11:36	10°♄50'13		evening max el	11289 Jul 14 14:01	20°♄05'39	18°04'40
evening set	11288 Aug 09 15:19	10°♄31'58		retrograde	11289 Jul 21 05:45	23°♄30'10	
inferior conj	11288 Aug 17 02:14	5°♄53'50	0°19'43	evening set	11289 Jul 23 17:26	23°♄01'37	
minimum elong	11288 Aug 17 02:55	5°♄52'25	0°19'06	inferior conj	11289 Jul 30 10:47	18°♄03'17	1°36'14
desc. node	11288 Aug 18 04:08	4°♄59'45		minimum elong	11289 Jul 30 13:17	17°♄57'15	1°34'55
min. Earth dist.	11288 Aug 20 10:35	3°♄08'16	0.58576 AU	min. Earth dist.	11289 Aug 02 15:09	15°♄01'10	0.60847 AU
morning rise	11288 Aug 24 11:00	0°♄24'38		desc. node	11289 Aug 05 01:26	12°♄58'35	
	11288 Aug 25 06:17	30°♄♄		morning rise	11289 Aug 06 06:24	12°♄07'28	
direct	11288 Aug 30 16:12	28°♄41'41		direct	11289 Aug 12 20:58	9°♄56'54	
	11288 Sep 05 06:21	0°♄		morning max el	11289 Aug 27 03:23	17°♄54'19	27°54'53
morning max el	11288 Sep 14 00:54	6°♄25'21	27°20'57		11289 Sep 06 06:06	0°♄	
	11288 Oct 01 15:16	0°♄			11289 Sep 24 08:58	0°♄	
asc. node	11288 Oct 11 14:13	18°♄19'48		asc. node	11289 Sep 28 10:58	8°♄09'19	
morning set	11288 Oct 14 22:01	25°♄12'16		morning set	11289 Sep 29 01:43	9°♄25'29	
	11288 Oct 17 03:39	0°♄		max. Earth dist.	11289 Oct 04 23:00	22°♄03'25	1.31571 AU
superior conj	11288 Oct 21 21:24	10°♄28'05	1°25'53	superior conj	11289 Oct 06 08:13	25°♄06'47	1°10'52
minimum elong	11288 Oct 21 19:29	10°♄17'24	1°26'05	minimum elong	11289 Oct 06 05:59	24°♄54'23	1°10'46
max. Earth dist.	11288 Oct 21 15:05	9°♄52'51	1.31381 AU		11289 Oct 08 13:06	0°♄	
evening rise	11288 Oct 28 15:29	25°♄19'09		evening rise	11289 Oct 13 01:29	9°♄54'07	
	11288 Oct 30 20:53	0°♄			11289 Oct 23 05:29	0°♄	
desc. node	11288 Nov 14 01:24	25°♄36'29		desc. node	11289 Oct 31 22:38	13°♄39'22	
	11288 Nov 17 01:20	0°♄		evening max el	11289 Nov 08 20:24	22°♄50'32	25°17'26
evening max el	11288 Nov 27 03:08	11°♄55'22	26°34'20	retrograde	11289 Nov 22 17:03	29°♄48'22	
retrograde	11288 Dec 11 01:47	19°♄02'32		evening set	11289 Nov 28 13:17	28°♄30'50	
evening set	11288 Dec 17 16:58	17°♄13'43		min. Earth dist.	11289 Dec 03 08:33	25°♄50'50	0.57172 AU
min. Earth dist.	11288 Dec 21 17:01	14°♄37'32	0.59180 AU	inferior conj	11289 Dec 06 04:31	23°♄57'03	-5°14'23
inferior conj	11288 Dec 24 21:05	12°♄10'51	-4°09'27	minimum elong	11289 Dec 06 11:48	23°♄44'49	5°12'22
minimum elong	11288 Dec 25 05:05	11°♄55'22	4°06'22	morning rise	11289 Dec 14 12:36	19°♄43'57	
morning rise	11289 Jan 01 19:58	7°♄35'32		direct	11289 Dec 16 19:44	19°♄28'23	
direct	11289 Jan 03 22:31	7°♄19'46		asc. node	11289 Dec 25 11:12	23°♄26'31	
asc. node	11289 Jan 07 14:07	8°♄09'39		morning max el	11289 Dec 25 21:46	23°♄51'25	19°04'52
morning max el	11289 Jan 11 19:42	11°♄12'58	18°18'11		11289 Dec 30 23:25	0°♄	
	11289 Jan 24 05:17	0°♄		morning set	11290 Jan 11 13:44	20°♄42'06	
morning set	11289 Jan 27 14:01	6°♄19'51			11290 Jan 16 06:24	0°♄	
superior conj	11289 Feb 05 21:51	23°♄49'05	0°31'49	superior conj	11290 Jan 19 21:29	7°♄03'59	0°59'57
minimum elong	11289 Feb 06 00:05	23°♄59'15	0°31'56	minimum elong	11290 Jan 20 00:30	7°♄18'24	1°00'06
	11289 Feb 09 08:29	0°♄		max. Earth dist.	11290 Jan 26 18:08	19°♄49'07	1.38810 AU
desc. node	11289 Feb 10 01:03	1°♄13'01		desc. node	11290 Jan 27 21:49	21°♄52'31	
max. Earth dist.	11289 Feb 13 11:27	7°♄09'32	1.41014 AU	evening rise	11290 Jan 30 13:29	26°♄30'40	
evening rise	11289 Feb 18 02:23	14°♄52'38			11290 Feb 01 14:38	0°♄	
	11289 Feb 27 17:01	0°♄			11290 Feb 21 06:54	0°♄	
	11289 Mar 21 20:56	0°♄		evening max el	11290 Mar 06 20:05	16°♄21'44	24°37'11
evening max el	11289 Mar 24 06:15	2°♄31'06	23°17'34	retrograde	11290 Mar 18 10:18	23°♄07'51	
retrograde	11289 Apr 03 18:36	8°♄43'28		asc. node	11290 Mar 23 09:08	21°♄17'35	
asc. node	11289 Apr 05 11:50	8°♄29'28		evening set	11290 Mar 23 23:24	20°♄48'48	
evening set	11289 Apr 08 19:41	6°♄36'51		min. Earth dist.	11290 Mar 28 12:44	15°♄38'36	0.68192 AU
min. Earth dist.	11289 Apr 13 17:09	0°♄51'10	0.68652 AU	inferior conj	11290 Mar 29 12:37	14°♄19'00	1°50'45
inferior conj	11289 Apr 14 04:58	0°♄10'23	2°27'00	minimum elong	11290 Mar 29 10:31	14°♄25'59	1°49'58
minimum elong	11289 Apr 14 02:50	0°♄17'45	2°26'09	morning rise	11290 Apr 03 21:47	8°♄20'20	
	11289 Apr 14 07:59	30°♄♄		direct	11290 Apr 07 16:51	6°♄57'53	
morning rise	11289 Apr 19 09:55	24°♄03'59		morning max el	11290 Apr 15 03:01	11°♄06'10	19°49'10
direct	11289 Apr 23 17:32	22°♄20'09		desc. node	11290 Apr 25 23:08	24°♄50'01	
morning max el	11289 May 02 03:14	27°♄09'40	20°59'57	greatest brilliancy	11290 Apr 28 03:34	27°♄59'42	-0.6m
	11289 May 04 18:35	0°♄			11290 Apr 29 12:21	0°♄	

morning set	11290 May 11 14:18	18°♄15'50		greatest brilliancy	11291 Apr 12 08:48	14°♄03'03	-0.8m
	11290 May 19 03:39	0°♄		desc. node	11291 Apr 12 19:49	14°♄45'10	
max. Earth dist.	11290 May 22 17:17	5°♄37'53	1.44531 AU	morning set	11291 Apr 20 21:36	27°♄14'28	
					11291 Apr 22 16:11	0°♄	
superior conj	11290 May 27 17:40	13°♄40'07	-2°11'54	max. Earth dist.	11291 May 05 10:29	19°♄54'11	1.45477 AU
minimum elong	11290 May 27 20:14	13°♄50'30	2°12'29				
	11290 Jun 06 15:07	0°♄		superior conj	11291 May 07 07:33	22°♄51'00	-2°09'09
evening rise	11290 Jun 10 05:13	6°♄03'58		minimum elong	11291 May 07 02:42	22°♄31'56	2°09'28
asc. node	11290 Jun 19 07:15	21°♄18'17			11291 May 11 20:20	0°♄	
	11290 Jun 25 04:15	0°♄		evening rise	11291 May 22 09:54	16°♄55'34	
evening max el	11290 Jun 28 03:59	3°♄26'30	18°08'40		11291 May 30 12:16	0°♄	
retrograde	11290 Jul 04 12:46	6°♄46'54		asc. node	11291 Jun 06 04:17	10°♄10'32	
evening set	11290 Jul 07 08:28	6°♄05'24		evening max el	11291 Jun 11 16:50	17°♄00'14	18°30'55
inferior conj	11290 Jul 13 11:51	0°♄48'30	2°28'24	retrograde	11291 Jun 18 04:13	20°♄30'24	
minimum elong	11290 Jul 13 14:27	0°♄41'26	2°27'10	evening set	11291 Jun 21 08:00	19°♄34'18	
	11290 Jul 14 05:36	30°♄		inferior conj	11291 Jun 27 01:20	14°♄00'52	2°59'49
min. Earth dist.	11290 Jul 16 04:57	27°♄52'22	0.63075 AU	minimum elong	11291 Jun 27 03:07	13°♄55'31	2°58'54
morning rise	11290 Jul 19 18:40	24°♄36'18		min. Earth dist.	11291 Jun 29 04:08	11°♄28'44	0.65045 AU
desc. node	11290 Jul 22 22:40	22°♄46'31		morning rise	11291 Jul 02 21:14	7°♄40'45	
direct	11290 Jul 26 11:29	22°♄05'10		direct	11291 Jul 09 10:10	4°♄59'00	
	11290 Aug 09 08:20	0°♄		desc. node	11291 Jul 09 19:50	4°♄59'34	
morning max el	11290 Aug 09 11:15	0°♄07'17	27°50'21	morning max el	11291 Jul 22 21:54	12°♄55'08	27°11'33
	11290 Aug 31 07:18	0°♄			11291 Aug 05 15:14	0°♄	
morning set	11290 Sep 12 22:42	23°♄17'06			11291 Aug 23 21:50	0°♄	
asc. node	11290 Sep 15 07:43	28°♄08'40		morning set	11291 Aug 27 10:19	6°♄40'22	
	11290 Sep 16 05:03	0°♄		max. Earth dist.	11291 Aug 31 20:58	15°♄31'31	1.33473 AU
max. Earth dist.	11290 Sep 18 02:10	3°♄58'45	1.32269 AU	asc. node	11291 Sep 02 04:27	18°♄13'31	
superior conj	11290 Sep 20 16:13	9°♄33'30	0°50'36	superior conj	11291 Sep 04 19:17	23°♄42'35	0°25'24
minimum elong	11290 Sep 20 14:10	9°♄22'20	0°50'16	minimum elong	11291 Sep 04 18:03	23°♄35'59	0°25'00
evening rise	11290 Sep 27 12:50	24°♄30'29			11291 Sep 07 18:05	0°♄	
	11290 Sep 30 03:14	0°♄		evening rise	11291 Sep 11 23:41	9°♄02'56	
	11290 Oct 18 09:09	0°♄			11291 Sep 22 20:55	0°♄	
desc. node	11290 Oct 18 19:54	0°♄30'26		evening max el	11291 Oct 02 19:48	13°♄12'15	22°00'10
evening max el	11290 Oct 21 07:21	3°♄05'19	23°40'14	desc. node	11291 Oct 05 17:13	15°♄44'08	
retrograde	11290 Nov 03 19:32	9°♄49'42		retrograde	11291 Oct 15 11:09	19°♄29'33	
evening set	11290 Nov 08 09:15	9°♄04'12		evening set	11291 Oct 18 13:53	19°♄07'52	
min. Earth dist.	11290 Nov 14 17:34	6°♄01'40	0.55578 AU	inferior conj	11291 Oct 27 11:18	15°♄10'02	-5°29'29
inferior conj	11290 Nov 16 15:33	4°♄53'28	-5°47'59	minimum elong	11291 Oct 27 04:31	15°♄19'33	5°28'05
minimum elong	11290 Nov 16 17:03	4°♄51'14	5°47'21	min. Earth dist.	11291 Oct 27 00:27	15°♄25'15	0.54688 AU
morning rise	11290 Nov 25 02:42	0°♄59'35		morning rise	11291 Nov 04 20:31	11°♄23'00	
direct	11290 Nov 27 21:33	0°♄40'21		direct	11291 Nov 08 08:23	10°♄56'05	
morning max el	11290 Dec 08 11:14	5°♄41'20	20°14'26	morning max el	11291 Nov 20 11:04	16°♄40'36	21°45'34
asc. node	11290 Dec 12 08:13	10°♄01'02		asc. node	11291 Nov 29 05:11	27°♄37'20	
	11290 Dec 24 04:30	0°♄			11291 Nov 30 16:57	0°♄	
morning set	11290 Dec 26 19:46	5°♄19'39		morning set	11291 Dec 11 05:37	20°♄05'32	
					11291 Dec 15 21:53	0°♄	
superior conj	11291 Jan 03 10:39	20°♄56'01	1°20'11				
minimum elong	11291 Jan 03 13:16	21°♄09'11	1°20'33	superior conj	11291 Dec 18 09:30	5°♄14'28	1°32'56
	11291 Jan 08 01:03	0°♄		minimum elong	11291 Dec 18 11:08	5°♄23'04	1°33'30
max. Earth dist.	11291 Jan 09 01:19	1°♄56'02	1.36633 AU	max. Earth dist.	11291 Dec 22 13:27	13°♄48'41	1.34707 AU
evening rise	11291 Jan 12 20:16	8°♄58'48		evening rise	11291 Dec 26 19:22	22°♄08'54	
desc. node	11291 Jan 14 18:37	12°♄26'53			11291 Dec 31 00:53	0°♄	
	11291 Jan 25 07:51	0°♄		desc. node	11292 Jan 01 15:31	2°♄52'07	
	11291 Feb 17 04:39	0°♄			11292 Jan 19 02:29	0°♄	
evening max el	11291 Feb 17 09:28	0°♄11'49	25°49'29	evening max el	11292 Jan 30 22:55	13°♄55'06	26°47'10
retrograde	11291 Mar 01 21:18	7°♄21'28		retrograde	11292 Feb 13 02:58	21°♄17'14	
evening set	11291 Mar 07 22:20	4°♄52'57		evening set	11292 Feb 19 14:41	18°♄43'54	
asc. node	11291 Mar 10 06:25	2°♄35'36		min. Earth dist.	11292 Feb 23 15:23	14°♄42'56	0.66044 AU
min. Earth dist.	11291 Mar 12 04:49	0°♄17'54	0.67315 AU	asc. node	11292 Feb 25 03:41	12°♄56'49	
	11291 Mar 12 10:32	30°♄		inferior conj	11292 Feb 25 15:17	12°♄22'40	0°09'27
inferior conj	11291 Mar 13 16:45	28°♄24'33	1°04'55	minimum elong	11292 Feb 25 15:01	12°♄23'27	0°09'36
minimum elong	11291 Mar 13 15:14	28°♄29'20	1°04'27	transit middle	11292 Feb 25 15:01	12°♄23'27	0°09'36
morning rise	11291 Mar 19 08:44	22°♄35'15		transit begin	11292 Feb 25 12:40	12°♄30'23	
direct	11291 Mar 22 16:13	21°♄32'34		transit end	11292 Feb 25 17:23	12°♄16'32	
morning max el	11291 Mar 29 10:30	25°♄12'29	18°53'29	morning rise	11292 Mar 02 16:33	6°♄44'36	
	11291 Apr 02 14:41	0°♄		direct	11292 Mar 05 13:47	5°♄58'45	

morning max el	11292 Mar 12 00:04	9°  23'04	18°14'13	minimum elong	11293 Feb 08 07:27	26°  02'36	0°54'19
	11292 Mar 26 14:00	0° 		asc. node	11293 Feb 11 00:57	23°  17'31	
desc. node	11292 Mar 29 16:31	4°  58'47		morning rise	11293 Feb 14 18:33	20°  42'42	
morning set	11292 Mar 31 06:13	7°  30'14		direct	11293 Feb 17 07:12	20°  10'00	
	11292 Apr 14 10:09	0° 		morning max el	11293 Feb 23 17:05	23°  29'55	17°51'59
					11293 Feb 28 23:05	0° 	
superior conj	11292 Apr 15 14:13	1°  50'01	-1°46'18	morning set	11293 Mar 12 19:41	19°  10'38	
minimum elong	11292 Apr 15 04:51	1°  13'19	1°45'47	desc. node	11293 Mar 16 13:13	25°  12'51	
max. Earth dist.	11292 Apr 17 05:55	4°  25'19	1.45691 AU		11293 Mar 19 07:27	0° 	
evening rise	11292 May 01 15:12	26°  51'22		superior conj	11293 Mar 26 07:51	11°  25'04	-1°09'05
	11292 May 03 15:36	0° 		minimum elong	11293 Mar 26 00:27	10°  55'25	1°08'13
greatest brilliancy	11292 May 12 22:32	14°  21'48	-0.7m	max. Earth dist.	11293 Mar 31 01:12	18°  55'51	1.45161 AU
asc. node	11292 May 23 01:23	28°  27'55			11293 Apr 07 03:23	0° 	
	11292 May 24 10:16	0° 		evening rise	11293 Apr 11 04:58	6°  15'38	
evening max el	11292 May 25 02:06	0°  40'56	19°10'28	greatest brilliancy	11293 Apr 26 06:14	28°  52'58	-0.6m
retrograde	11292 Jun 01 00:36	4°  33'29			11293 Apr 27 00:46	0° 	
evening set	11292 Jun 04 12:48	3°  21'50		evening max el	11293 May 08 06:18	14°  25'10	20°05'44
	11292 Jun 08 00:55	30°  11'34		asc. node	11293 May 09 22:33	15°  59'27	
inferior conj	11292 Jun 09 23:40	27°  33'30	3°14'26	retrograde	11293 May 15 23:06	18°  50'36	
minimum elong	11292 Jun 10 00:19	27°  31'23	3°13'43	evening set	11293 May 19 20:31	17°  22'58	
min. Earth dist.	11292 Jun 11 11:34	25°  37'34	0.66641 AU	inferior conj	11293 May 25 03:57	11°  21'18	3°15'19
morning rise	11292 Jun 15 11:18	21°  21'34		minimum elong	11293 May 25 03:30	11°  22'50	3°14'39
direct	11292 Jun 21 15:58	18°  29'38		min. Earth dist.	11293 May 26 01:28	10°  22'50	0.67798 AU
desc. node	11292 Jun 25 16:57	19°  26'48		morning rise	11293 May 30 10:09	5°  21'24	
morning max el	11292 Jul 04 08:43	26°  21'05'06	26°06'03	direct	11293 Jun 05 03:37	2°  28'44	
	11292 Jul 07 23:10	0° 		desc. node	11293 Jun 12 14:00	5°  21'40'37	
	11292 Jul 29 04:37	0° 		morning max el	11293 Jun 16 18:32	9°  27'12	24°43'32
morning set	11292 Aug 09 09:02	19°  25'40			11293 Jul 02 23:48	0° 	
max. Earth dist.	11292 Aug 13 05:07	26°  21'05'32	1.35167 AU		11293 Jul 21 19:48	0° 	
	11292 Aug 14 21:47	0° 		morning set	11293 Jul 22 14:31	1°  22'05	
				max. Earth dist.	11293 Jul 26 04:36	7°  27'54	1.37265 AU
superior conj	11292 Aug 18 14:54	7°  26'44	-0°04'11	superior conj	11293 Aug 01 23:58	20°  28'43	-0°36'53
minimum elong	11292 Aug 18 15:09	7°  28'02	0°04'27	minimum elong	11293 Aug 02 02:24	20°  28'43	0°36'54
behind sun begin	11292 Aug 18 09:19	6°  28'02		asc. node	11293 Aug 05 22:00	28°  22'48	
behind sun end	11292 Aug 18 20:59	7°  28'02			11293 Aug 06 17:27	0° 	
asc. node	11292 Aug 19 01:12	8°  28'02		evening rise	11293 Aug 10 11:19	7°  28'02	
evening rise	11292 Aug 26 07:57	23°  25'06			11293 Aug 23 01:26	0° 	
	11292 Aug 29 13:29	0° 		evening max el	11293 Aug 27 07:45	5°  28'02	19°23'56
evening max el	11292 Sep 13 18:46	23°  25'06	20°32'13	retrograde	11293 Sep 05 19:04	9°  28'02	
desc. node	11292 Sep 21 14:35	28°  25'06		evening set	11293 Sep 07 15:18	9°  28'02	
retrograde	11292 Sep 24 22:53	29°  25'06		desc. node	11293 Sep 08 11:56	9°  28'02	
evening set	11292 Sep 27 01:43	29°  25'06		inferior conj	11293 Sep 16 07:24	5°  28'02	-2°25'38
inferior conj	11292 Oct 06 03:49	25°  25'06	-4°14'30	minimum elong	11293 Sep 16 00:58	5°  28'02	2°23'11
minimum elong	11292 Oct 05 17:53	25°  25'06	4°11'21	min. Earth dist.	11293 Sep 18 19:57	3°  28'02	0.55675 AU
min. Earth dist.	11292 Oct 07 08:38	24°  25'06	0.54714 AU	morning rise	11293 Sep 24 08:08	1°  28'02	
morning rise	11292 Oct 14 09:38	21°  25'06		direct	11293 Sep 29 11:28	0° 	
direct	11292 Oct 18 16:59	20°  25'06		morning max el	11293 Oct 13 11:42	7°  25'06	25°16'39
morning max el	11292 Nov 01 00:42	26°  25'06	23°31'08		11293 Oct 30 05:27	0° 	
	11292 Nov 03 22:49	0° 		asc. node	11293 Nov 01 22:58	4°  25'06	
asc. node	11292 Nov 15 02:05	16°  25'06		morning set	11293 Nov 09 04:52	19°  25'06	
	11292 Nov 22 09:25	0° 			11293 Nov 13 22:52	0° 	
morning set	11292 Nov 24 17:14	4°  25'06		superior conj	11293 Nov 16 00:20	4°  25'06	1°38'21
				minimum elong	11293 Nov 15 23:42	4°  25'06	1°38'57
superior conj	11292 Dec 01 14:53	19°  25'06	1°38'48	max. Earth dist.	11293 Nov 17 12:35	7°  25'06	1.32102 AU
minimum elong	11292 Dec 01 15:21	19°  25'06	1°39'27	evening rise	11293 Nov 23 04:20	19°  25'06	
max. Earth dist.	11292 Dec 04 09:16	25°  25'06	1.33174 AU		11293 Nov 28 05:38	0° 	
	11292 Dec 06 10:05	0° 		desc. node	11293 Dec 05 09:33	12°  25'06	
evening rise	11292 Dec 09 07:07	5°  25'06			11293 Dec 16 20:40	0° 	
desc. node	11292 Dec 18 12:30	23°  25'06		evening max el	11293 Dec 25 22:31	10°  25'06	27°30'34
	11292 Dec 22 16:18	0° 		retrograde	11294 Jan 08 18:31	17°  25'06	
evening max el	11293 Jan 12 11:50	27°  25'06	27°23'06	evening set	11294 Jan 15 18:15	15°  25'06	
	11293 Jan 15 11:23	0° 		min. Earth dist.	11294 Jan 19 11:52	12°  25'06	0.62502 AU
retrograde	11293 Jan 26 02:24	4°  25'06		inferior conj	11294 Jan 22 09:13	9°  25'06	-2°08'27
evening set	11293 Feb 01 22:14	2° 25'06		minimum elong	11294 Jan 22 13:31	9° 25'06	2°06'11
	11293 Feb 04 12:40	30° 25'06					
min. Earth dist.	11293 Feb 05 18:21	28° 25'06	0.64416 AU				
inferior conj	11293 Feb 08 05:45	26° 25'06	-0°55'27				

asc. node	11294 Jan 28 22:13	4°≈35'05		direct	11295 Jan 14 16:51	17°≈19'00	
morning rise	11294 Jan 29 11:13	4°≈22'49		asc. node	11295 Jan 15 19:26	17°≈23'59	
direct	11294 Jan 31 17:30	3°≈59'26		morning max el	11295 Jan 22 01:01	20°≈58'59	18°01'13
morning max el	11294 Feb 07 10:31	7°≈24'46	17°47'17		11295 Jan 28 20:09	0°≈	
	11294 Feb 22 05:53	0°≈		morning set	11295 Feb 06 15:28	15°≈36'01	
morning set	11294 Feb 23 08:53	1°≈58'58			11295 Feb 14 12:09	0°≈	
desc. node	11294 Mar 03 09:53	16°≈00'11					
				superior conj	11295 Feb 16 16:53	3°≈54'38	0°12'08
superior conj	11294 Mar 07 00:02	22°≈04'57	-0°27'05	minimum elong	11295 Feb 16 17:54	3°≈59'06	0°12'20
minimum elong	11294 Mar 06 21:22	21°≈53'45	0°26'30	behind sun begin	11295 Feb 16 12:49	3°≈36'42	
	11294 Mar 11 19:06	0°≈		behind sun end	11295 Feb 16 22:58	4°≈21'27	
max. Earth dist.	11294 Mar 13 18:20	3°≈11'12	1.43954 AU	desc. node	11295 Feb 18 06:35	6°≈40'00	
evening rise	11294 Mar 21 17:58	15°≈46'41		max. Earth dist.	11295 Feb 24 07:24	16°≈56'40	1.42197 AU
	11294 Mar 31 03:15	0°≈		evening rise	11295 Mar 01 20:18	25°≈57'50	
evening max el	11294 Apr 21 04:52	28°≈10'17	21°14'03		11295 Mar 04 09:32	0°≈	
	11294 Apr 23 03:33	0°≈			11295 Mar 24 22:58	0°≈	
asc. node	11294 Apr 26 19:47	2°≈30'31		evening max el	11295 Apr 03 22:30	11°≈56'37	22°31'12
retrograde	11294 Apr 29 21:39	3°≈16'05		retrograde	11295 Apr 13 18:37	17°≈45'26	
evening set	11294 May 04 05:12	1°≈32'29		asc. node	11295 Apr 13 17:03	17°≈45'25	
	11294 May 05 20:07	30°≈		evening set	11295 Apr 18 13:11	15°≈46'36	
inferior conj	11294 May 09 11:43	25°≈19'11	3°04'35	inferior conj	11295 Apr 23 20:56	9°≈24'00	2°43'32
minimum elong	11294 May 09 10:22	25°≈23'52	3°03'52	minimum elong	11295 Apr 23 18:58	9°≈30'48	2°42'44
min. Earth dist.	11294 May 09 19:39	24°≈51'34	0.68492 AU	min. Earth dist.	11295 Apr 23 16:05	9°≈40'51	0.68725 AU
morning rise	11294 May 14 15:19	19°≈03'36		morning rise	11295 Apr 29 00:38	3°≈14'05	
direct	11294 May 19 19:56	16°≈47'12		direct	11295 May 03 15:49	1°≈18'02	
morning max el	11294 May 30 04:31	22°≈56'39	23°14'00	morning max el	11295 May 12 17:43	6°≈35'17	21°46'31
desc. node	11294 May 30 10:58	23°≈13'01		desc. node	11295 May 17 07:50	11°≈42'50	
	11294 Jun 05 09:06	0°≈			11295 May 30 17:31	0°≈	
	11294 Jun 26 08:01	0°≈		morning set	11295 Jun 14 02:47	21°≈59'51	
morning set	11294 Jul 03 21:39	12°≈16'02			11295 Jun 19 01:19	0°≈	
max. Earth dist.	11294 Jul 08 01:47	19°≈21'54	1.39569 AU	max. Earth dist.	11295 Jun 20 03:01	1°≈46'10	1.41797 AU
	11294 Jul 14 01:28	0°≈					
				superior conj	11295 Jun 27 18:12	14°≈45'57	-1°41'44
superior conj	11294 Jul 15 18:34	3°≈08'31	-1°10'36	minimum elong	11295 Jun 28 00:46	15°≈14'42	1°41'42
minimum elong	11294 Jul 15 23:27	3°≈31'06	1°10'27		11295 Jul 06 05:54	0°≈	
asc. node	11294 Jul 23 18:50	18°≈19'31		evening rise	11295 Jul 08 14:39	4°≈20'29	
evening rise	11294 Jul 25 06:47	21°≈12'35		asc. node	11295 Jul 10 15:43	8°≈05'31	
	11294 Jul 29 22:00	0°≈		evening max el	11295 Jul 24 17:39	29°≈55'23	18°10'46
evening max el	11294 Aug 10 08:40	17°≈13'05	18°37'01		11295 Jul 24 19:32	0°≈	
retrograde	11294 Aug 18 09:11	21°≈14'21		retrograde	11295 Jul 31 18:16	3°≈29'21	
evening set	11294 Aug 20 09:03	21°≈00'16		evening set	11295 Aug 03 01:16	3°≈07'07	
desc. node	11294 Aug 26 09:18	17°≈58'03			11295 Aug 08 05:40	30°≈	
inferior conj	11294 Aug 28 07:01	16°≈33'40	-0°35'32	inferior conj	11295 Aug 10 04:19	28°≈19'51	0°55'16
minimum elong	11294 Aug 28 05:35	16°≈36'22	0°35'12	minimum elong	11295 Aug 10 06:02	28°≈16'01	0°54'14
min. Earth dist.	11294 Aug 31 12:17	14°≈08'12	0.57382 AU	desc. node	11295 Aug 13 06:37	25°≈35'55	
morning rise	11294 Sep 04 22:42	11°≈24'35		min. Earth dist.	11295 Aug 13 11:59	25°≈24'35	0.59531 AU
direct	11294 Sep 10 19:44	9°≈58'41		morning rise	11295 Aug 17 07:34	22°≈37'53	
morning max el	11294 Sep 25 03:06	17°≈29'11	26°44'28	direct	11295 Aug 23 17:24	20°≈43'01	
	11294 Oct 05 12:14	0°≈		morning max el	11295 Sep 07 01:53	28°≈33'15	27°40'13
asc. node	11294 Oct 19 19:48	24°≈22'15			11295 Sep 08 12:01	0°≈	
	11294 Oct 22 14:31	0°≈			11295 Sep 29 08:14	0°≈	
morning set	11294 Oct 24 14:52	4°≈14'09		asc. node	11295 Oct 06 16:33	14°≈04'26	
				morning set	11295 Oct 08 21:25	18°≈37'56	
					11295 Oct 14 03:32	0°≈	
superior conj	11294 Oct 31 11:48	19°≈19'54	1°32'03	max. Earth dist.	11295 Oct 15 05:54	2°≈26'13	1.31402 AU
minimum elong	11294 Oct 31 10:15	19°≈11'18	1°32'25				
max. Earth dist.	11294 Oct 31 20:43	20°≈09'32	1.31507 AU				
	11294 Nov 05 07:52	0°≈		superior conj	11295 Oct 15 23:22	4°≈03'19	1°20'11
evening rise	11294 Nov 07 08:16	4°≈19'20		minimum elong	11295 Oct 15 21:16	3°≈51'35	1°20'14
	11294 Nov 20 22:45	0°≈		evening rise	11295 Oct 22 16:38	18°≈51'31	
desc. node	11294 Nov 22 06:41	2°≈09'09			11295 Oct 28 02:18	0°≈	
evening max el	11294 Dec 08 04:11	22°≈36'21	27°04'44	desc. node	11295 Nov 09 03:52	20°≈44'30	
retrograde	11294 Dec 22 02:06	29°≈47'26			11295 Nov 16 06:01	0°≈	
evening set	11294 Dec 28 23:16	27°≈43'57		evening max el	11295 Nov 20 02:03	4°≈00'45	26°04'54
min. Earth dist.	11295 Jan 01 18:38	25°≈02'27	0.60407 AU	retrograde	11295 Dec 04 00:01	11°≈04'14	
inferior conj	11295 Jan 04 22:17	22°≈24'36	-3°25'51	evening set	11295 Dec 10 08:51	9°≈27'47	
minimum elong	11295 Jan 05 05:15	22°≈10'00	3°22'46	min. Earth dist.	11295 Dec 14 14:55	6°≈52'32	0.58296 AU
morning rise	11295 Jan 12 13:58	17°≈36'39		inferior conj	11295 Dec 17 17:18	4°≈37'47	-4°39'27

minimum elong	11295 Dec 18 01:30	4° Z 22'51	4°36'38	inferior conj	11296 Nov 27 15:54	16° Z 03'07	-5°33'48
morning rise	11295 Dec 25 20:47	0° Z 12'19		minimum elong	11296 Nov 27 21:22	15° Z 54'24	5°32'29
	11295 Dec 27 02:01	30° R Z		morning rise	11296 Dec 06 02:08	11° Z 59'09	
direct	11295 Dec 28 00:35	29° Z 57'03		direct	11296 Dec 08 13:07	11° Z 42'42	
	11295 Dec 28 22:54	0° Z		morning max el	11296 Dec 18 06:01	16° Z 21'04	19°31'37
asc. node	11296 Jan 02 16:35	1° Z 49'34		asc. node	11296 Dec 19 13:37	17° Z 41'48	
morning max el	11296 Jan 05 08:50	4° Z 01'23	18°35'23		11296 Dec 28 02:01	0° Z	
morning set	11296 Jan 21 10:05	29° Z 45'00		morning set	11297 Jan 04 12:50	14° Z 14'41	
	11296 Jan 21 13:11	0° \approx			11297 Jan 12 09:34	0° \approx	
superior conj	11296 Jan 30 06:42	16° \approx 42'36	0°44'43	superior conj	11297 Jan 12 12:39	0° \approx 15'05	1°09'28
minimum elong	11296 Jan 30 09:26	16° \approx 55'23	0°44'49	minimum elong	11297 Jan 12 15:35	0° \approx 29'31	1°09'42
desc. node	11296 Feb 05 03:18	27° \approx 20'37		max. Earth dist.	11297 Jan 18 21:25	12° \approx 21'23	1.37866 AU
max. Earth dist.	11296 Feb 06 15:36	29° \approx 59'36	1.40084 AU	desc. node	11297 Jan 22 00:06	17° \approx 58'33	
	11296 Feb 06 15:42	0° H		evening rise	11297 Jan 22 14:51	19° \approx 03'47	
evening rise	11296 Feb 10 19:00	7° H 03'17			11297 Jan 29 01:21	0° H	
	11296 Feb 25 10:55	0° Y			11297 Feb 18 15:41	0° Y	
evening max el	11296 Mar 16 12:56	25° Y 44'42	23°51'49	evening max el	11297 Feb 27 02:17	9° Y 34'57	25°09'16
	11296 Mar 21 13:02	0° B		retrograde	11297 Mar 11 02:39	16° Y 33'15	
retrograde	11296 Mar 27 12:41	2° B 13'00		evening set	11297 Mar 16 20:47	14° Y 09'44	
asc. node	11296 Mar 30 14:21	1° B 29'03		asc. node	11297 Mar 17 11:39	13° Y 36'36	
evening set	11296 Apr 01 18:54	0° B 00'31		min. Earth dist.	11297 Mar 21 07:02	9° Y 14'21	0.67864 AU
	11296 Apr 01 19:08	30° R Y		inferior conj	11297 Mar 22 12:02	7° Y 39'36	1°32'28
min. Earth dist.	11296 Apr 06 12:35	24° Y 30'06	0.68507 AU	minimum elong	11297 Mar 22 10:07	7° Y 45'52	1°31'47
inferior conj	11296 Apr 07 05:39	23° Y 31'54	2°12'46	morning rise	11297 Mar 27 23:48	1° Y 44'33	
minimum elong	11296 Apr 07 03:29	23° Y 39'20	2°11'56	direct	11297 Mar 31 13:41	0° Y 30'55	
morning rise	11296 Apr 12 12:06	17° Y 28'47		morning max el	11297 Apr 07 16:18	4° Y 25'59	19°23'26
direct	11296 Apr 16 14:10	15° Y 54'23		desc. node	11297 Apr 20 01:21	20° Y 35'42	
morning max el	11296 Apr 24 13:11	20° Y 25'08	20°28'10	greatest brilliancy	11297 Apr 20 10:02	21° Y 07'48	-0.7m
	11296 May 02 12:38	0° B			11297 Apr 26 07:31	0° B	
desc. node	11296 May 03 04:36	0° B 54'05		morning set	11297 May 02 09:08	9° B 17'55	
	11296 May 22 21:36	0° II		max. Earth dist.	11297 May 15 00:26	28° B 58'19	1.45011 AU
morning set	11296 May 23 09:08	0° II 44'37			11297 May 15 16:04	0° II	
max. Earth dist.	11296 Jun 01 10:41	15° II 01'48	1.43678 AU	superior conj	11297 May 18 19:35	4° II 59'23	-2°13'14
superior conj	11296 Jun 07 18:46	25° II 22'34	-2°04'52	minimum elong	11297 May 18 19:10	4° II 57'43	2°13'49
minimum elong	11296 Jun 08 00:09	25° II 44'53	2°05'15	evening rise	11297 Jun 02 00:42	28° II 09'15	
	11296 Jun 10 13:10	0° E			11297 Jun 03 03:20	0° E	
evening rise	11296 Jun 20 06:17	16° E 43'18		asc. node	11297 Jun 13 09:39	16° E 44'13	
asc. node	11296 Jun 26 12:39	27° E 35'58		evening max el	11297 Jun 20 20:39	26° E 32'12	18°16'04
	11296 Jun 27 22:51	0° Ω		retrograde	11297 Jun 27 05:30	29° E 55'07	
evening max el	11296 Jul 07 06:48	13° Ω 05'00	18°04'06	evening set	11297 Jun 30 04:35	29° E 07'41	
retrograde	11296 Jul 13 18:32	16° Ω 26'23		inferior conj	11297 Jul 06 03:15	23° E 43'52	2°44'01
evening set	11296 Jul 16 09:31	15° Ω 52'45		minimum elong	11297 Jul 06 05:34	23° E 37'17	2°42'53
inferior conj	11296 Jul 22 20:27	10° Ω 46'22	2°01'06	min. Earth dist.	11297 Jul 08 14:36	20° E 55'47	0.63948 AU
minimum elong	11296 Jul 22 23:09	10° Ω 39'29	1°59'46	morning rise	11297 Jul 12 05:07	17° E 27'26	
min. Earth dist.	11296 Jul 25 20:39	7° Ω 43'59	0.61805 AU	desc. node	11297 Jul 17 01:05	15° E 01'32	
morning rise	11296 Jul 29 10:25	4° Ω 42'04		direct	11297 Jul 18 21:04	14° E 50'07	
desc. node	11296 Jul 30 03:52	4° Ω 13'06		morning max el	11297 Aug 01 16:25	22° E 51'51	27°37'38
direct	11296 Aug 05 02:37	2° Ω 21'33			11297 Aug 07 23:53	0° Ω	
morning max el	11296 Aug 19 07:12	10° Ω 23'08	27°57'34		11297 Aug 27 21:23	0° np	
	11296 Sep 03 14:46	0° np		morning set	11297 Sep 05 15:58	16° np 24'23	
	11296 Sep 20 14:23	0° $\underline{\text{A}}$		asc. node	11297 Sep 09 10:01	24° np 01'38	
morning set	11296 Sep 21 22:36	2° $\underline{\text{A}}$ 43'46		max. Earth dist.	11297 Sep 10 12:00	26° np 17'17	1.32715 AU
asc. node	11296 Sep 22 13:17	3° $\underline{\text{A}}$ 59'21			11297 Sep 12 06:06	0° $\underline{\text{A}}$	
max. Earth dist.	11296 Sep 27 12:17	14° $\underline{\text{A}}$ 32'11	1.31801 AU	superior conj	11297 Sep 13 15:26	2° $\underline{\text{A}}$ 58'39	0°40'31
superior conj	11296 Sep 29 09:15	18° $\underline{\text{A}}$ 38'23	1°02'55	minimum elong	11297 Sep 13 13:39	2° $\underline{\text{A}}$ 49'00	0°40'08
minimum elong	11296 Sep 29 07:01	18° $\underline{\text{A}}$ 26'07	1°02'42	evening rise	11297 Sep 20 14:48	18° $\underline{\text{A}}$ 03'34	
	11296 Oct 04 13:02	0° M			11297 Sep 26 10:29	0° M	
evening rise	11296 Oct 06 03:27	3° M 28'16		desc. node	11297 Oct 12 22:24	24° M 33'43	
	11296 Oct 20 04:15	0° Z		evening max el	11297 Oct 13 02:24	24° M 43'30	22°57'04
desc. node	11296 Oct 26 01:06	8° Z 20'19			11297 Oct 20 11:37	0° Z	
evening max el	11296 Oct 31 15:54	14° Z 36'07	24°37'34	retrograde	11297 Oct 26 07:48	1° Z 18'14	
retrograde	11296 Nov 14 10:25	21° Z 30'06		evening set	11297 Oct 30 06:06	0° Z 44'39	
evening set	11296 Nov 19 18:47	20° Z 26'29			11297 Nov 01 10:07	30° R M	
min. Earth dist.	11296 Nov 25 03:22	17° Z 39'02	0.56425 AU	min. Earth dist.	11297 Nov 06 11:22	27° M 26'50	0.55101 AU

inferior conj	11297 Nov 07 19:25	26° \mathbb{M} 40'49	-5°47'22	evening max el	11298 Sep 24 18:34	4° \mathbb{M} 58'45	21°20'38
minimum elong	11297 Nov 07 17:16	26° \mathbb{M} 43'55	5°46'45	desc. node	11298 Sep 29 19:44	8° \mathbb{M} 56'50	
morning rise	11297 Nov 16 06:03	22° \mathbb{M} 51'28		retrograde	11298 Oct 06 19:56	10° \mathbb{M} 58'04	
direct	11297 Nov 19 07:38	22° \mathbb{M} 29'28		evening set	11298 Oct 09 10:40	10° \mathbb{M} 42'18	
morning max el	11297 Nov 30 13:35	27° \mathbb{M} 49'13	20°50'42	inferior conj	11298 Oct 18 11:58	6° \mathbb{M} 47'04	-5°03'47
	11297 Dec 02 16:20	0° \mathbb{Z}		minimum elong	11298 Oct 18 02:52	6° \mathbb{M} 59'49	5°01'30
asc. node	11297 Dec 06 10:37	4° \mathbb{Z} 44'30		min. Earth dist.	11298 Oct 18 18:15	6° \mathbb{M} 38'15	0.54589 AU
morning set	11297 Dec 19 20:46	28° \mathbb{Z} 56'34		morning rise	11298 Oct 26 19:50	2° \mathbb{M} 57'02	
	11297 Dec 20 09:01	0° \mathbb{Z}		direct	11298 Oct 30 16:13	2° \mathbb{M} 25'06	
				morning max el	11298 Nov 12 08:09	8° \mathbb{M} 28'03	22°29'21
superior conj	11297 Dec 27 06:21	14° \mathbb{Z} 19'33	1°26'27	asc. node	11298 Nov 23 07:34	22° \mathbb{M} 42'14	
minimum elong	11297 Dec 27 08:36	14° \mathbb{Z} 31'05	1°26'55		11298 Nov 27 11:21	0° \mathbb{Z}	
max. Earth dist.	11298 Jan 01 06:03	24° \mathbb{Z} 19'06	1.35778 AU	morning set	11298 Dec 04 07:37	13° \mathbb{Z} 43'51	
	11298 Jan 04 05:14	0° \mathbb{Z}					
evening rise	11298 Jan 05 05:05	1° \mathbb{Z} 51'26		superior conj	11298 Dec 11 08:17	28° \mathbb{Z} 45'42	1°36'12
desc. node	11298 Jan 08 20:58	8° \mathbb{Z} 29'53		minimum elong	11298 Dec 11 09:27	28° \mathbb{Z} 51'50	1°36'50
	11298 Jan 22 02:36	0° \mathbb{H}			11298 Dec 11 22:18	0° \mathbb{Z}	
evening max el	11298 Feb 09 15:54	23° \mathbb{H} 24'07	26°16'20	max. Earth dist.	11298 Dec 14 21:40	6° \mathbb{Z} 12'57	1.34008 AU
	11298 Feb 18 23:38	0° \mathbb{Y}		evening rise	11298 Dec 19 10:00	15° \mathbb{Z} 16'14	
retrograde	11298 Feb 22 11:32	0° \mathbb{Y} 40'16		desc. node	11298 Dec 26 17:54	28° \mathbb{Z} 49'30	
	11298 Feb 25 18:00	30° \mathbb{R} \mathbb{H}			11298 Dec 27 10:05	0° \mathbb{Z}	
evening set	11298 Feb 28 17:10	28° \mathbb{H} 09'23			11299 Jan 16 18:11	0° \mathbb{H}	
asc. node	11298 Mar 04 08:56	24° \mathbb{H} 25'16		evening max el	11299 Jan 23 05:30	7° \mathbb{H} 02'30	27°05'35
min. Earth dist.	11298 Mar 04 21:11	23° \mathbb{H} 48'42	0.66817 AU	retrograde	11299 Feb 05 14:25	14° \mathbb{H} 25'43	
inferior conj	11298 Mar 06 14:07	21° \mathbb{H} 43'14	0°42'35	evening set	11299 Feb 12 06:04	11° \mathbb{H} 52'28	
minimum elong	11298 Mar 06 13:03	21° \mathbb{H} 46'31	0°42'20	min. Earth dist.	11299 Feb 16 04:45	8° \mathbb{H} 05'26	0.65395 AU
morning rise	11298 Mar 12 09:44	15° \mathbb{H} 58'08		inferior conj	11299 Feb 18 09:34	5° \mathbb{H} 36'34	-0°16'57
direct	11298 Mar 15 12:41	15° \mathbb{H} 02'55		minimum elong	11299 Feb 18 10:03	5° \mathbb{H} 35'13	0°16'25
morning max el	11298 Mar 22 02:35	18° \mathbb{H} 34'52	18°34'40	asc. node	11299 Feb 19 06:14	4° \mathbb{H} 38'45	
	11298 Mar 30 23:13	0° \mathbb{Y}		morning rise	11299 Feb 24 15:29	0° \mathbb{H} 03'51	
desc. node	11298 Apr 06 22:04	10° \mathbb{Y} 39'49			11299 Feb 24 18:44	30° \mathbb{R} \mathbb{Z}	
morning set	11298 Apr 12 01:58	18° \mathbb{Y} 46'17		direct	11299 Feb 27 08:57	29° \mathbb{Z} 23'53	
	11298 Apr 19 05:33	0° \mathbb{H}			11299 Mar 01 23:45	0° \mathbb{H}	
				morning max el	11299 Mar 05 17:57	2° \mathbb{H} 44'45	18°02'40
superior conj	11298 Apr 28 04:19	13° \mathbb{H} 59'54	-2°01'44	morning set	11299 Mar 23 23:12	29° \mathbb{H} 39'40	
minimum elong	11298 Apr 27 20:46	13° \mathbb{H} 30'22	2°01'43		11299 Mar 24 04:10	0° \mathbb{Y}	
max. Earth dist.	11298 Apr 27 18:56	13° \mathbb{H} 23'12	1.45660 AU	desc. node	11299 Mar 24 18:46	0° \mathbb{Y} 59'35	
	11298 May 08 08:55	0° \mathbb{H}					
evening rise	11298 May 13 19:02	8° \mathbb{H} 35'32		superior conj	11299 Apr 07 13:31	23° \mathbb{Y} 08'26	-1°31'43
greatest brilliancy	11298 May 22 01:57	21° \mathbb{H} 44'39	-0.8m	minimum elong	11299 Apr 07 04:19	22° \mathbb{Y} 32'08	1°30'56
	11298 May 27 11:03	0° \mathbb{Z}		max. Earth dist.	11299 Apr 10 15:16	27° \mathbb{Y} 58'22	1.45560 AU
asc. node	11298 May 31 06:43	5° \mathbb{Z} 23'04			11299 Apr 11 22:20	0° \mathbb{H}	
evening max el	11298 Jun 04 08:20	10° \mathbb{Z} 10'06	18°45'47	evening rise	11299 Apr 23 16:18	18° \mathbb{H} 14'02	
retrograde	11298 Jun 10 23:19	13° \mathbb{Z} 47'57			11299 May 01 08:04	0° \mathbb{H}	
evening set	11298 Jun 14 06:43	12° \mathbb{Z} 45'13		greatest brilliancy	11299 May 06 21:33	8° \mathbb{H} 23'32	-0.7m
inferior conj	11298 Jun 19 20:54	7° \mathbb{Z} 05'25	3°07'52	asc. node	11299 May 18 03:52	23° \mathbb{H} 22'18	
minimum elong	11298 Jun 19 22:13	7° \mathbb{Z} 01'20	3°07'02	evening max el	11299 May 18 15:37	23° \mathbb{H} 52'29	19°32'10
min. Earth dist.	11298 Jun 21 17:22	4° \mathbb{Z} 47'37	0.65778 AU	retrograde	11299 May 25 20:54	27° \mathbb{H} 57'35	
morning rise	11298 Jun 25 12:58	0° \mathbb{Z} 44'14		evening set	11299 May 29 13:02	26° \mathbb{H} 38'56	
	11298 Jun 26 11:09	30° \mathbb{R} \mathbb{H}		inferior conj	11299 Jun 03 22:04	20° \mathbb{H} 44'35	3°16'19
direct	11298 Jul 01 22:59	28° \mathbb{H} 01'05		minimum elong	11299 Jun 03 22:14	20° \mathbb{H} 44'01	3°15'39
desc. node	11298 Jul 03 22:15	28° \mathbb{H} 14'36		min. Earth dist.	11299 Jun 05 03:39	19° \mathbb{H} 06'44	0.67193 AU
	11298 Jul 08 01:54	0° \mathbb{Z}		morning rise	11299 Jun 09 07:04	14° \mathbb{H} 23'20	
morning max el	11298 Jul 15 03:09	5° \mathbb{Z} 49'40	26°46'23	direct	11299 Jun 15 07:13	11° \mathbb{H} 44'39	
	11298 Aug 02 16:14	0° \mathbb{Q}		desc. node	11299 Jun 20 19:20	13° \mathbb{H} 30'24	
morning set	11298 Aug 19 22:32	29° \mathbb{Q} 32'18		morning max el	11299 Jun 27 13:37	19° \mathbb{H} 05'32	25°32'29
	11298 Aug 20 04:21	0° \mathbb{H}			11299 Jul 06 19:34	0° \mathbb{Z}	
max. Earth dist.	11298 Aug 24 02:16	7° \mathbb{H} 38'48	1.34140 AU		11299 Jul 26 18:09	0° \mathbb{Q}	
asc. node	11298 Aug 27 06:46	14° \mathbb{H} 07'17		morning set	11299 Aug 02 14:29	11° \mathbb{Q} 57'44	
				max. Earth dist.	11299 Aug 06 06:33	18° \mathbb{Q} 45'08	1.36021 AU
superior conj	11298 Aug 28 15:41	16° \mathbb{H} 58'00	0°13'21				
minimum elong	11298 Aug 28 15:00	16° \mathbb{H} 54'22	0°13'00	superior conj	11299 Aug 12 07:14	0° \mathbb{H} 29'11	-0°17'46
behind sun begin	11298 Aug 28 11:35	16° \mathbb{H} 36'36		minimum elong	11299 Aug 12 08:20	0° \mathbb{H} 34'43	0°17'55
behind sun end	11298 Aug 28 18:24	17° \mathbb{H} 12'10			11299 Aug 12 01:23	0° \mathbb{H}	
	11298 Sep 03 19:52	0° \mathbb{Z}		asc. node	11299 Aug 14 03:34	4° \mathbb{H} 12'28	
evening rise	11298 Sep 05 00:48	2° \mathbb{Z} 32'18		evening rise	11299 Aug 20 07:18	16° \mathbb{H} 48'27	
	11298 Sep 20 10:54	0° \mathbb{M}			11299 Aug 27 00:50	0° \mathbb{Z}	

evening max el	11299 Sep 06 23:23	15° Ω 51'36	20°00'34		11300 Aug 23 17:18	0° Ω	
desc. node	11299 Sep 16 17:04	21° Ω 01'52		retrograde	11300 Aug 29 13:26	1° Ω 55'24	
retrograde	11299 Sep 17 10:03	21° Ω 03'14		evening set	11300 Aug 31 10:12	1° Ω 44'23	
evening set	11299 Sep 19 08:19	20° Ω 53'24		desc. node	11300 Sep 03 14:26	0° Ω 39'40	
inferior conj	11299 Sep 28 07:37	16° Ω 53'34	-3°30'27		11300 Sep 04 21:13	30° \mathcal{R} \mathcal{M}	
minimum elong	11299 Sep 27 22:37	17° Ω 07'08	3°27'16	inferior conj	11300 Sep 08 19:05	27° \mathcal{M} 29'30	-1°37'30
min. Earth dist.	11299 Sep 30 03:14	15° Ω 47'48	0.55011 AU	minimum elong	11300 Sep 08 14:52	27° \mathcal{M} 36'47	1°35'56
morning rise	11299 Oct 06 11:42	12° Ω 41'41		min. Earth dist.	11300 Sep 11 16:39	25° \mathcal{M} 29'30	0.56314 AU
direct	11299 Oct 11 03:28	11° Ω 54'31		morning rise	11300 Sep 16 16:24	22° \mathcal{M} 41'36	
morning max el	11299 Oct 24 19:42	18° Ω 37'50	24°17'10	direct	11300 Sep 22 03:24	21° \mathcal{M} 31'30	
	11299 Nov 03 05:46	0° \mathcal{M}		morning max el	11300 Oct 06 08:08	28° \mathcal{M} 48'16	25°57'18
asc. node	11299 Nov 10 04:29	11° \mathcal{M} 21'46			11300 Oct 07 13:09	0° Ω	
morning set	11299 Nov 18 19:30	28° \mathcal{M} 31'29			11300 Oct 27 18:46	0° \mathcal{M}	
	11299 Nov 19 12:01	0° \mathcal{A}		asc. node	11300 Oct 28 01:20	0° \mathcal{M} 31'33	
				morning set	11300 Nov 03 06:39	13° \mathcal{M} 13'10	
superior conj	11299 Nov 25 15:43	13° \mathcal{A} 25'51	1°39'21				
minimum elong	11299 Nov 25 15:42	13° \mathcal{A} 25'46	1°40'00	superior conj	11300 Nov 10 02:16	28° \mathcal{M} 11'42	1°36'24
max. Earth dist.	11299 Nov 27 21:09	18° \mathcal{A} 15'24	1.32660 AU	minimum elong	11300 Nov 10 01:13	28° \mathcal{M} 05'50	1°36'53
evening rise	11299 Dec 03 02:10	29° \mathcal{A} 09'48			11300 Nov 10 21:50	0° \mathcal{A}	
	11299 Dec 03 12:06	0° \mathcal{Z}		max. Earth dist.	11300 Nov 11 02:45	0° \mathcal{A} 27'08	1.31782 AU
desc. node	11299 Dec 13 14:54	18° \mathcal{Z} 51'54		evening rise	11300 Nov 17 02:30	13° \mathcal{A} 23'14	
	11299 Dec 20 12:44	0° \approx			11300 Nov 25 14:24	0° \mathcal{Z}	
evening max el	11300 Jan 05 17:40	20° \approx 18'39	27°29'58	desc. node	11300 Nov 30 11:58	8° \mathcal{Z} 28'42	
retrograde	11300 Jan 19 10:44	27° \approx 41'10			11300 Dec 16 03:29	0° \approx	
evening set	11300 Jan 26 09:06	25° \approx 12'22		evening max el	11300 Dec 19 02:18	2° \approx 59'38	27°23'43
min. Earth dist.	11300 Jan 30 03:44	21° \approx 56'09	0.63641 AU	retrograde	11301 Jan 01 23:38	10° \approx 16'18	
inferior conj	11300 Feb 01 19:45	19° \approx 13'21	-1°25'32	evening set	11301 Jan 08 23:14	8° \approx 00'49	
minimum elong	11300 Feb 01 22:30	19° \approx 06'21	1°23'54	min. Earth dist.	11301 Jan 12 16:41	5° \approx 09'21	0.61627 AU
asc. node	11300 Feb 06 03:29	15° \approx 17'58		inferior conj	11301 Jan 15 17:30	2° \approx 25'08	-2°41'05
morning rise	11300 Feb 08 14:03	13° \approx 55'47		minimum elong	11301 Jan 15 22:59	2° \approx 12'43	2°38'23
direct	11300 Feb 10 23:46	13° \approx 27'27			11301 Jan 18 13:07	30° \mathcal{R} \mathcal{Z}	
morning max el	11300 Feb 17 11:37	16° \approx 48'08	17°47'48	morning rise	11301 Jan 23 01:26	27° \mathcal{Z} 25'39	
	11300 Feb 26 23:36	0° \mathcal{H}		asc. node	11301 Jan 24 00:43	27° \mathcal{Z} 11'35	
morning set	11300 Mar 05 23:32	11° \mathcal{H} 51'26		direct	11301 Jan 25 05:44	27° \mathcal{Z} 05'14	
desc. node	11300 Mar 11 15:28	21° \mathcal{H} 30'21			11301 Jan 31 13:08	0° \approx	
	11300 Mar 16 17:45	0° \mathcal{Y}		morning max el	11301 Feb 01 04:17	0° \approx 35'42	17°50'49
				morning set	11301 Feb 16 20:50	25° \approx 02'19	
superior conj	11300 Mar 18 15:59	3° \mathcal{Y} 09'25	-0°51'20	desc. node	11301 Feb 19 15:03	0° \mathcal{H}	
minimum elong	11300 Mar 18 10:34	2° \mathcal{Y} 47'17	0°50'32		11301 Feb 26 12:09	12° \mathcal{H} 07'42	
max. Earth dist.	11300 Mar 24 10:05	12° \mathcal{Y} 24'56	1.44728 AU				
evening rise	11300 Apr 03 03:48	27° \mathcal{Y} 36'18		superior conj	11301 Feb 27 18:54	14° \mathcal{H} 19'55	-0°09'49
	11300 Apr 04 17:21	0° \mathcal{B}		minimum elong	11301 Feb 27 18:02	14° \mathcal{H} 16'08	0°09'26
	11300 Apr 25 07:25	0° \mathcal{I}		behind sun begin	11301 Feb 27 11:05	13° \mathcal{H} 46'21	
evening max el	11300 May 01 17:17	7° \mathcal{I} 36'27	20°33'20	behind sun end	11301 Feb 28 00:58	14° \mathcal{H} 45'51	
asc. node	11300 May 05 01:04	10° \mathcal{I} 29'47		max. Earth dist.	11301 Mar 07 01:06	26° \mathcal{H} 27'11	1.43263 AU
retrograde	11300 May 09 19:46	12° \mathcal{I} 18'47			11301 Mar 09 05:43	0° \mathcal{Y}	
evening set	11300 May 13 21:23	10° \mathcal{I} 44'11		evening rise	11301 Mar 13 21:01	7° \mathcal{Y} 20'55	
inferior conj	11300 May 19 04:07	4° \mathcal{I} 37'01	3°12'04		11301 Mar 28 23:05	0° \mathcal{B}	
minimum elong	11300 May 19 03:15	4° \mathcal{I} 39'59	3°11'24	evening max el	11301 Apr 14 13:29	21° \mathcal{B} 21'40	21°46'05
min. Earth dist.	11300 May 19 19:40	3° \mathcal{I} 43'29	0.68150 AU	asc. node	11301 Apr 21 22:17	26° \mathcal{B} 30'26	
	11300 May 22 17:21	30° \mathcal{R} \mathcal{B}		retrograde	11301 Apr 23 17:56	26° \mathcal{B} 46'23	
morning rise	11300 May 24 08:52	28° \mathcal{B} 18'38		evening set	11301 Apr 28 05:57	24° \mathcal{B} 56'20	
direct	11300 May 29 20:50	25° \mathcal{B} 52'27		inferior conj	11301 May 03 12:45	18° \mathcal{B} 38'36	2°56'52
	11300 Jun 07 07:01	0° \mathcal{I}		minimum elong	11301 May 03 11:06	18° \mathcal{B} 44'20	2°56'07
desc. node	11300 Jun 07 16:21	0° \mathcal{I} 20'24		min. Earth dist.	11301 May 03 15:12	18° \mathcal{B} 30'01	0.68643 AU
morning max el	11300 Jun 09 23:27	2° \mathcal{I} 31'27	24°05'43	morning rise	11301 May 08 16:02	12° \mathcal{B} 25'00	
	11300 Jun 30 21:25	0° \mathcal{E}		direct	11301 May 13 14:54	10° \mathcal{B} 16'53	
morning set	11300 Jul 15 11:04	23° \mathcal{E} 28'53		morning max el	11301 May 23 10:24	16° \mathcal{B} 04'39	22°35'58
max. Earth dist.	11300 Jul 19 04:16	29° \mathcal{E} 59'34	1.38231 AU	desc. node	11301 May 25 13:17	18° \mathcal{B} 19'30	
	11300 Jul 19 04:22	0° \mathcal{Q}			11301 Jun 03 20:04	0° \mathcal{I}	
					11301 Jun 23 21:45	0° \mathcal{E}	
superior conj	11300 Jul 26 10:36	13° \mathcal{Q} 23'42	-0°51'15	morning set	11301 Jun 26 07:24	3° \mathcal{E} 53'48	
minimum elong	11300 Jul 26 14:05	13° \mathcal{Q} 40'16	0°51'11	max. Earth dist.	11301 Jul 01 02:06	11° \mathcal{E} 51'34	1.40537 AU
asc. node	11300 Aug 01 00:22	24° \mathcal{Q} 13'10					
	11300 Aug 03 22:38	0° \mathcal{M}		superior conj	11301 Jul 08 21:43	25° \mathcal{E} 32'32	-1°24'25
evening rise	11300 Aug 04 07:43	0° \mathcal{M} 44'44		minimum elong	11301 Jul 09 03:30	25° \mathcal{E} 58'43	1°24'16
evening max el	11300 Aug 20 17:46	27° \mathcal{M} 31'19	19°01'24		11301 Jul 11 08:28	0° \mathcal{Q}	

evening rise	11301 Jul 18 22:47	14° Ω 13'11		superior conj	11302 Jun 20 11:55	6° Ω 44'47	-1°52'56
asc. node	11301 Jul 18 21:13	14° Ω 05'49		minimum elong	11302 Jun 20 18:29	7° Ω 12'50	1°53'03
	11301 Jul 27 15:44	0° \mathbb{M}		evening rise	11302 Jul 02 00:16	27° Ω 02'42	
evening max el	11301 Aug 03 22:40	9° \mathbb{M} 54'00	18°23'26		11302 Jul 03 15:42	0° Ω	
retrograde	11301 Aug 11 11:37	13° \mathbb{M} 41'35		asc. node	11302 Jul 05 18:05	3° Ω 45'27	
evening set	11301 Aug 13 14:18	13° \mathbb{M} 24'32		evening max el	11302 Jul 18 09:56	22° Ω 49'07	18°05'39
inferior conj	11301 Aug 21 04:04	8° \mathbb{M} 49'30	0°05'54	retrograde	11302 Jul 25 03:33	26° Ω 15'32	
minimum elong	11301 Aug 21 04:16	8° \mathbb{M} 49'05	0°05'31	evening set	11302 Jul 27 14:05	25° Ω 48'39	
transit middle	11301 Aug 21 04:16	8° \mathbb{M} 49'05	0°05'31	inferior conj	11302 Aug 03 09:49	20° Ω 53'02	1°26'13
transit begin	11301 Aug 21 00:57	8° \mathbb{M} 55'48		minimum elong	11302 Aug 03 12:10	20° Ω 47'27	1°24'57
transit end	11301 Aug 21 07:35	8° \mathbb{M} 42'21		min. Earth dist.	11302 Aug 06 15:16	17° Ω 52'05	0.60507 AU
desc. node	11301 Aug 21 11:45	8° \mathbb{M} 33'51		desc. node	11302 Aug 08 09:04	16° Ω 23'43	
min. Earth dist.	11301 Aug 24 12:06	6° \mathbb{M} 08'25	0.58259 AU	morning rise	11302 Aug 10 07:25	15° Ω 00'35	
morning rise	11301 Aug 28 14:42	3° \mathbb{M} 25'18		direct	11302 Aug 16 21:02	12° Ω 53'56	
direct	11301 Sep 03 18:06	1° \mathbb{M} 46'39		morning max el	11302 Aug 31 04:00	20° Ω 49'22	27°52'20
morning max el	11301 Sep 18 02:29	9° \mathbb{M} 27'09	27°12'36		11302 Sep 08 02:32	0° \mathbb{M}	
	11301 Oct 03 19:45	0° $\underline{\Omega}$			11302 Sep 26 19:13	0° $\underline{\Omega}$	
asc. node	11301 Oct 14 22:08	20° $\underline{\Omega}$ 03'35		asc. node	11302 Oct 01 18:53	9° $\underline{\Omega}$ 51'23	
morning set	11301 Oct 18 15:21	27° $\underline{\Omega}$ 44'20		morning set	11302 Oct 02 19:51	12° $\underline{\Omega}$ 00'25	
	11301 Oct 19 16:46	0° \mathbb{M}		max. Earth dist.	11302 Oct 08 19:56	24° $\underline{\Omega}$ 56'17	1.31511 AU
superior conj	11301 Oct 25 13:59	12° \mathbb{M} 57'20	1°27'42	superior conj	11302 Oct 10 01:03	27° $\underline{\Omega}$ 37'25	1°13'30
minimum elong	11301 Oct 25 12:09	12° \mathbb{M} 47'08	1°27'55	minimum elong	11302 Oct 09 22:50	27° $\underline{\Omega}$ 25'06	1°13'26
max. Earth dist.	11301 Oct 25 11:31	12° \mathbb{M} 43'33	1.31397 AU		11302 Oct 11 02:44	0° \mathbb{M}	
evening rise	11301 Nov 01 08:33	27° \mathbb{M} 50'03		evening rise	11302 Oct 16 18:11	12° \mathbb{M} 24'37	
	11301 Nov 02 09:06	0° \mathbb{M}			11302 Oct 25 12:49	0° \mathbb{M}	
desc. node	11301 Nov 17 09:06	27° \mathbb{M} 29'51		desc. node	11302 Nov 04 06:17	15° \mathbb{M} 41'50	
	11301 Nov 19 00:47	0° \mathbb{M}		evening max el	11302 Nov 12 23:28	25° \mathbb{M} 57'21	25°30'34
evening max el	11301 Dec 01 04:55	14° \mathbb{M} 54'23	26°43'19		11302 Nov 18 00:35	0° \mathbb{M}	
retrograde	11301 Dec 15 03:33	22° \mathbb{M} 02'30		retrograde	11302 Nov 26 20:28	2° \mathbb{M} 56'28	
evening set	11301 Dec 21 20:32	20° \mathbb{M} 09'47		evening set	11302 Dec 02 20:26	1° \mathbb{M} 33'57	
min. Earth dist.	11301 Dec 25 19:06	17° \mathbb{M} 32'35	0.59493 AU		11302 Dec 05 19:21	30° \mathbb{M} 41'50	
inferior conj	11301 Dec 28 23:16	15° \mathbb{M} 02'35	-3°58'18	min. Earth dist.	11302 Dec 07 11:44	28° \mathbb{M} 55'51	0.57451 AU
minimum elong	11301 Dec 29 07:04	14° \mathbb{M} 47'09	3°55'09	inferior conj	11302 Dec 10 09:48	26° \mathbb{M} 56'15	-5°06'03
morning rise	11302 Jan 05 20:22	10° \mathbb{M} 23'49		minimum elong	11302 Dec 10 17:29	26° \mathbb{M} 43'05	5°03'48
direct	11302 Jan 07 22:50	10° \mathbb{M} 07'41		morning rise	11302 Dec 18 16:52	22° \mathbb{M} 39'58	
asc. node	11302 Jan 10 21:54	10° \mathbb{M} 41'18		direct	11302 Dec 20 22:58	22° \mathbb{M} 24'33	
morning max el	11302 Jan 15 16:23	13° \mathbb{M} 57'18	18°13'06	asc. node	11302 Dec 28 19:01	25° \mathbb{M} 45'16	
	11302 Jan 26 14:02	0° \approx		morning max el	11302 Dec 29 20:03	26° \mathbb{M} 42'24	18°56'31
morning set	11302 Jan 31 09:06	8° \approx 54'22			11303 Jan 01 18:49	0° \mathbb{M}	
superior conj	11302 Feb 09 21:12	26° \approx 35'32	0°26'53	morning set	11303 Jan 15 07:39	23° \mathbb{M} 13'56	
minimum elong	11302 Feb 09 23:10	26° \approx 44'26	0°26'59		11303 Jan 18 18:04	0° \approx	
	11302 Feb 11 18:48	0° \mathbb{M}		superior conj	11303 Jan 23 18:29	9° \approx 44'14	0°56'10
desc. node	11302 Feb 13 08:50	2° \mathbb{M} 48'00		minimum elong	11303 Jan 23 21:28	9° \approx 58'25	0°56'18
max. Earth dist.	11302 Feb 17 11:42	9° \mathbb{M} 53'59	1.41331 AU	max. Earth dist.	11303 Jan 30 18:55	22° \approx 40'40	1.39142 AU
evening rise	11302 Feb 22 07:36	17° \mathbb{M} 54'32		desc. node	11303 Jan 31 05:35	23° \approx 28'00	
	11302 Mar 01 23:37	0° \mathbb{M}		evening rise	11303 Feb 03 15:35	29° \approx 24'39	
	11302 Mar 23 13:31	0° \mathbb{M}			11303 Feb 03 23:53	0° \mathbb{M}	
evening max el	11302 Mar 28 05:36	5° \mathbb{M} 08'55	23°05'32		11303 Feb 23 09:16	0° \mathbb{M}	
retrograde	11302 Apr 07 13:44	11° \mathbb{M} 15'11		evening max el	11303 Mar 10 19:35	18° \mathbb{M} 59'15	24°25'31
asc. node	11302 Apr 08 19:33	11° \mathbb{M} 07'50		retrograde	11303 Mar 22 06:03	25° \mathbb{M} 40'48	
evening set	11302 Apr 12 13:07	9° \mathbb{M} 10'33		asc. node	11303 Mar 26 16:50	24° \mathbb{M} 10'50	
inferior conj	11302 Apr 17 21:58	2° \mathbb{M} 45'06	2°31'39	evening set	11303 Mar 27 17:25	23° \mathbb{M} 23'19	
minimum elong	11302 Apr 17 19:52	2° \mathbb{M} 52'22	2°30'50	min. Earth dist.	11303 Apr 01 07:49	18° \mathbb{M} 07'58	0.68294 AU
min. Earth dist.	11302 Apr 17 11:58	3° \mathbb{M} 19'41	0.68687 AU	inferior conj	11303 Apr 02 05:57	16° \mathbb{M} 53'43	1°56'53
	11302 Apr 19 23:00	30° \mathbb{M} 41'50		minimum elong	11303 Apr 02 03:49	17° \mathbb{M} 00'53	1°56'05
morning rise	11302 Apr 23 02:30	26° \mathbb{M} 37'45		morning rise	11303 Apr 07 14:21	10° \mathbb{M} 53'57	
direct	11302 Apr 27 12:06	24° \mathbb{M} 50'38		direct	11303 Apr 11 11:14	9° \mathbb{M} 28'26	
morning max el	11302 May 06 01:46	29° \mathbb{M} 46'57	21°11'38	morning max el	11303 Apr 19 00:25	13° \mathbb{M} 41'55	19°58'45
	11302 May 06 06:58	0° \mathbb{M}		desc. node	11303 Apr 29 06:53	26° \mathbb{M} 33'47	
desc. node	11302 May 12 10:07	7° \mathbb{M} 08'19			11303 May 01 16:28	0° \mathbb{M}	
	11302 May 28 12:37	0° \mathbb{M}		morning set	11303 May 16 02:34	21° \mathbb{M} 40'27	
morning set	11302 Jun 06 01:38	13° \mathbb{M} 08'21			11303 May 21 11:23	0° \mathbb{M}	
max. Earth dist.	11302 Jun 13 05:43	24° \mathbb{M} 37'22	1.42657 AU	max. Earth dist.	11303 May 26 16:44	8° \mathbb{M} 14'17	1.44334 AU
	11302 Jun 16 11:56	0° \mathbb{M}		superior conj	11303 Jun 01 02:06	16° \mathbb{M} 54'46	-2°10'37

minimum elong	11303 Jun 01 05:34	17° Π 08'51	2°11'09	superior conj	11304 May 10 18:33	26° \mathcal{B} 11'38	-2°10'53
	11303 Jun 08 23:45	0° \mathfrak{D}		minimum elong	11304 May 10 14:50	25° \mathcal{B} 56'59	2°11'19
evening rise	11303 Jun 14 07:26	9° \mathfrak{D} 02'21			11304 May 13 04:23	0° Π	
asc. node	11303 Jun 22 15:01	23° \mathfrak{D} 06'55		evening rise	11304 May 25 15:49	20° Π 03'16	
	11303 Jun 27 01:26	0° Ω			11304 May 31 18:22	0° \mathfrak{D}	
evening max el	11303 Jul 01 23:46	6° Ω 06'48	18°06'55	asc. node	11304 Jun 08 12:03	12° \mathfrak{D} 03'45	
retrograde	11303 Jul 08 09:00	9° Ω 27'06		evening max el	11304 Jun 14 12:57	19° \mathfrak{D} 39'05	18°26'30
evening set	11303 Jul 11 03:29	8° Ω 47'41		retrograde	11304 Jun 20 23:29	23° \mathfrak{D} 07'07	
inferior conj	11303 Jul 17 08:42	3° Ω 33'20	2°21'55	evening set	11304 Jun 24 01:59	22° \mathfrak{D} 13'22	
minimum elong	11303 Jul 17 11:21	3° Ω 26'13	2°20'38	inferior conj	11304 Jun 29 20:36	16° \mathfrak{D} 42'21	2°56'14
min. Earth dist.	11303 Jul 20 03:42	0° Ω 35'02	0.62751 AU	minimum elong	11304 Jun 29 22:31	16° \mathfrak{D} 36'37	2°55'14
	11303 Jul 20 17:35	30° $\mathcal{R}\mathfrak{D}$		min. Earth dist.	11304 Jul 02 01:38	14° \mathfrak{D} 05'34	0.64770 AU
morning rise	11303 Jul 23 17:18	27° \mathfrak{D} 22'50		morning rise	11304 Jul 05 17:57	10° \mathfrak{D} 22'52	
desc. node	11303 Jul 26 06:19	25° \mathfrak{D} 50'53		direct	11304 Jul 12 07:47	7° \mathfrak{D} 41'53	
direct	11303 Jul 30 10:05	24° \mathfrak{D} 54'17		desc. node	11304 Jul 12 03:32	7° \mathfrak{D} 42'00	
	11303 Aug 10 07:01	0° Ω		morning max el	11304 Jul 25 21:49	15° \mathfrak{D} 40'16	27°19'14
morning max el	11303 Aug 13 11:21	2° Ω 56'34	27°53'25		11304 Aug 06 16:15	0° Ω	
	11303 Sep 02 13:32	0° \mathfrak{M}			11304 Aug 25 07:48	0° \mathfrak{M}	
morning set	11303 Sep 16 18:00	25° \mathfrak{M} 55'46		morning set	11304 Aug 30 07:14	9° \mathfrak{M} 23'59	
asc. node	11303 Sep 18 15:37	29° \mathfrak{M} 49'32		max. Earth dist.	11304 Sep 03 20:19	18° \mathfrak{M} 30'59	1.33258 AU
	11303 Sep 18 17:38	0° \mathfrak{L}		asc. node	11304 Sep 04 12:21	19° \mathfrak{M} 53'46	
max. Earth dist.	11303 Sep 22 00:09	6° \mathfrak{L} 55'00	1.32130 AU				
				superior conj	11304 Sep 07 13:35	26° \mathfrak{M} 18'27	0°29'31
superior conj	11303 Sep 24 09:36	12° \mathfrak{L} 06'15	0°54'01	minimum elong	11304 Sep 07 12:10	26° \mathfrak{M} 10'56	0°29'09
minimum elong	11303 Sep 24 07:28	11° \mathfrak{L} 54'41	0°53'43		11304 Sep 09 07:03	0° \mathfrak{L}	
evening rise	11303 Oct 01 05:28	27° \mathfrak{L} 01'06		evening rise	11304 Sep 14 16:31	11° \mathfrak{L} 34'26	
	11303 Oct 02 15:02	0° \mathfrak{M}			11304 Sep 24 01:24	0° \mathfrak{M}	
	11303 Oct 19 21:36	0° \mathfrak{J}		evening max el	11304 Oct 05 22:29	16° \mathfrak{M} 21'46	22°14'38
desc. node	11303 Oct 22 03:33	2° \mathfrak{J} 45'19		desc. node	11304 Oct 08 00:52	18° \mathfrak{M} 15'37	
evening max el	11303 Oct 25 10:55	6° \mathfrak{J} 16'12	23°55'21	retrograde	11304 Oct 18 18:07	22° \mathfrak{M} 44'23	
retrograde	11303 Nov 08 01:01	13° \mathfrak{J} 03'35		evening set	11304 Oct 22 01:37	22° \mathfrak{M} 20'04	
evening set	11303 Nov 12 19:56	12° \mathfrak{J} 13'28		min. Earth dist.	11304 Oct 30 04:35	18° \mathfrak{M} 44'15	0.54766 AU
min. Earth dist.	11303 Nov 18 21:25	9° \mathfrak{J} 15'29	0.55775 AU	inferior conj	11304 Oct 30 21:09	18° \mathfrak{M} 20'55	-5°36'11
inferior conj	11303 Nov 20 23:43	7° \mathfrak{J} 59'43	-5°45'53	minimum elong	11304 Oct 30 15:27	18° \mathfrak{M} 28'56	5°35'03
minimum elong	11303 Nov 21 02:24	7° \mathfrak{J} 55'39	5°45'07	morning rise	11304 Nov 08 06:47	14° \mathfrak{M} 33'48	
morning rise	11303 Nov 29 10:50	4° \mathfrak{J} 03'40		direct	11304 Nov 11 15:48	14° \mathfrak{M} 08'22	
direct	11303 Dec 02 03:27	3° \mathfrak{J} 45'18		morning max el	11304 Nov 23 13:27	19° \mathfrak{M} 46'34	21°30'48
morning max el	11303 Dec 12 11:37	8° \mathfrak{J} 40'05	20°02'40	asc. node	11304 Dec 01 13:04	29° \mathfrak{M} 36'50	
asc. node	11303 Dec 15 16:04	12° \mathfrak{J} 09'03			11304 Dec 01 19:10	0° \mathfrak{J}	
	11303 Dec 26 14:50	0° \mathfrak{Z}		morning set	11304 Dec 13 22:20	22° \mathfrak{J} 34'06	
morning set	11303 Dec 30 12:56	7° \mathfrak{Z} 49'33			11304 Dec 17 10:56	0° \mathfrak{Z}	
superior conj	11304 Jan 07 05:56	23° \mathfrak{Z} 31'32	1°17'34	superior conj	11304 Dec 21 03:33	7° \mathfrak{Z} 46'16	1°31'25
minimum elong	11304 Jan 07 08:40	23° \mathfrak{Z} 45'10	1°17'55	minimum elong	11304 Dec 21 05:22	7° \mathfrak{Z} 55'42	1°31'59
	11304 Jan 10 12:47	0° \approx		max. Earth dist.	11304 Dec 25 12:32	16° \mathfrak{Z} 42'44	1.34972 AU
max. Earth dist.	11304 Jan 13 01:37	4° \approx 50'45	1.36945 AU	evening rise	11304 Dec 29 16:33	24° \mathfrak{Z} 49'47	
evening rise	11304 Jan 16 19:39	11° \approx 45'41			11305 Jan 01 11:12	0° \approx	
desc. node	11304 Jan 18 02:24	14° \approx 03'15		desc. node	11305 Jan 03 23:17	4° \approx 29'43	
	11304 Jan 27 14:38	0° \mathfrak{H}			11305 Jan 20 03:31	0° \mathfrak{H}	
	11304 Feb 18 15:28	0° \mathfrak{Y}		evening max el	11305 Feb 02 22:20	16° \mathfrak{H} 33'44	26°39'49
evening max el	11304 Feb 21 08:53	2° \mathfrak{Y} 49'14	25°39'23	retrograde	11305 Feb 16 00:31	23° \mathfrak{H} 54'58	
retrograde	11304 Mar 04 17:53	9° \mathfrak{Y} 56'27		evening set	11305 Feb 22 10:40	21° \mathfrak{H} 22'06	
evening set	11304 Mar 10 17:11	7° \mathfrak{Y} 28'58		min. Earth dist.	11305 Feb 26 12:10	17° \mathfrak{H} 16'01	0.66253 AU
asc. node	11304 Mar 12 14:09	5° \mathfrak{Y} 41'06		asc. node	11305 Feb 27 11:28	16° \mathfrak{H} 07'18	
min. Earth dist.	11304 Mar 15 00:35	2° \mathfrak{Y} 48'45	0.67473 AU	inferior conj	11305 Feb 28 10:18	14° \mathfrak{H} 59'15	0°18'31
inferior conj	11304 Mar 16 10:45	0° \mathfrak{Y} 59'54	1°12'32	minimum elong	11305 Feb 28 09:48	15° \mathfrak{H} 00'44	0°18'32
minimum elong	11304 Mar 16 09:07	1° \mathfrak{Y} 05'08	1°11'59	morning rise	11305 Mar 06 10:01	9° \mathfrak{H} 19'17	
	11304 Mar 17 05:41	30° $\mathcal{R}\mathfrak{H}$		direct	11305 Mar 09 08:39	8° \mathfrak{H} 31'10	
morning rise	11304 Mar 22 01:34	25° \mathfrak{H} 09'07		morning max el	11305 Mar 15 19:41	11° \mathfrak{H} 57'14	18°18'59
direct	11304 Mar 25 10:39	24° \mathfrak{H} 03'45			11305 Mar 28 20:31	0° \mathfrak{Y}	
morning max el	11304 Apr 01 06:53	27° \mathfrak{H} 47'12	19°00'44	desc. node	11305 Apr 02 00:21	6° \mathfrak{Y} 36'40	
	11304 Apr 03 08:33	0° \mathfrak{Y}		morning set	11305 Apr 04 11:42	10° \mathfrak{Y} 33'40	
greatest brilliancy	11304 Apr 14 16:19	15° \mathfrak{Y} 42'48	-0.7m		11305 Apr 16 18:11	0° \mathcal{B}	
desc. node	11304 Apr 15 03:38	16° \mathfrak{Y} 25'38					
	11304 Apr 23 23:23	0° \mathcal{B}		superior conj	11305 Apr 20 01:12	5° \mathcal{B} 09'32	-1°50'54
morning set	11304 Apr 24 07:22	0° \mathcal{B} 30'56		minimum elong	11305 Apr 19 16:04	4° \mathcal{B} 33'49	1°50'30
max. Earth dist.	11304 May 08 09:09	22° \mathcal{B} 26'03	1.45380 AU	max. Earth dist.	11305 Apr 21 04:14	6° \mathcal{B} 55'13	1.45704 AU

	11305 May 05 22:45	0°♂		desc. node	11306 Mar 19 21:02	27°♂01'30	
evening rise	11305 May 06 00:20	0°♂06'13			11306 Mar 21 16:12	0°♂	
greatest brilliancy	11305 May 16 14:20	16°♂35'30	-0.8m				
asc. node	11305 May 26 09:09	0°♂27'09		superior conj	11306 Mar 30 16:11	14°♂36'32	-1°15'17
	11305 May 26 00:17	0°♂		minimum elong	11306 Mar 30 08:12	14°♂04'38	1°14'23
evening max el	11305 May 28 22:56	3°♂19'16	19°03'32	max. Earth dist.	11306 Apr 03 23:56	21°♂27'40	1.45287 AU
retrograde	11305 Jun 04 19:16	7°♂07'37			11306 Apr 09 11:03	0°♂	
evening set	11305 Jun 08 06:11	5°♂58'22		evening rise	11306 Apr 15 15:37	9°♂33'03	
inferior conj	11305 Jun 13 17:50	0°♂12'18	3°13'08		11306 Apr 29 04:24	0°♂	
minimum elong	11305 Jun 13 18:39	0°♂09'40	3°12'23	greatest brilliancy	11306 Apr 30 10:09	1°♂48'57	-0.6m
	11305 Jun 13 21:40	30°♂♂		evening max el	11306 May 12 04:02	17°♂03'21	19°56'34
min. Earth dist.	11305 Jun 15 07:59	28°♂10'19	0.66432 AU	asc. node	11306 May 13 06:20	18°♂06'34	
morning rise	11305 Jun 19 06:31	23°♂50'23		retrograde	11306 May 19 17:35	21°♂23'03	
direct	11305 Jun 25 12:42	21°♂07'44		evening set	11306 May 23 13:37	19°♂57'43	
desc. node	11305 Jun 29 00:41	21°♂50'37		inferior conj	11306 May 28 21:23	13°♂57'59	3°15'54
morning max el	11305 Jul 08 08:38	28°♂47'15	26°17'05	minimum elong	11306 May 28 21:06	13°♂58'58	3°15'16
	11305 Jul 09 12:38	0°♂		min. Earth dist.	11306 May 29 20:59	12°♂38'28	0.67660 AU
	11305 Jul 31 11:30	0°♂		morning rise	11306 Jun 03 04:14	7°♂37'44	
morning set	11305 Aug 13 08:08	22°♂15'19		direct	11306 Jun 08 23:33	5°♂03'13	
max. Earth dist.	11305 Aug 17 05:55	29°♂42'48	1.34887 AU	desc. node	11306 Jun 15 21:44	7°♂50'05	
	11305 Aug 17 09:26	0°♂		morning max el	11306 Jun 20 18:33	12°♂07'41	24°56'28
					11306 Jul 05 02:51	0°♂	
superior conj	11305 Aug 22 10:29	10°♂06'35	0°00'34		11306 Jul 24 05:15	0°♂	
minimum elong	11305 Aug 22 10:28	10°♂06'32	0°00'16	morning set	11306 Jul 26 16:27	4°♂19'17	
behind sun begin	11305 Aug 22 04:32	9°♂36'07		max. Earth dist.	11306 Jul 30 06:25	10°♂47'50	1.36940 AU
behind sun end	11305 Aug 22 16:24	10°♂37'01					
asc. node	11305 Aug 22 09:05	9°♂59'24		superior conj	11306 Aug 05 21:20	23°♂23'42	-0°31'46
evening rise	11305 Aug 30 01:18	25°♂58'10		minimum elong	11306 Aug 05 23:24	23°♂33'49	0°31'51
	11305 Sep 01 00:16	0°♂		asc. node	11306 Aug 09 05:52	0°♂03'12	
evening max el	11305 Sep 17 19:34	26°♂50'28	20°44'11		11306 Aug 09 05:13	0°♂	
	11305 Sep 21 15:02	0°♂		evening rise	11306 Aug 14 05:33	10°♂06'42	
desc. node	11305 Sep 24 22:14	1°♂42'39			11306 Aug 25 00:09	0°♂	
retrograde	11305 Sep 29 05:27	2°♂30'12		evening max el	11306 Aug 31 06:27	8°♂03'28	19°32'41
evening set	11305 Oct 01 10:47	2°♂18'15		retrograde	11306 Sep 09 23:33	12°♂53'20	
	11305 Oct 07 15:17	30°♂♂		evening set	11306 Sep 11 20:00	12°♂43'34	
inferior conj	11305 Oct 10 13:12	28°♂22'58	-4°28'46	desc. node	11306 Sep 11 19:35	12°♂43'45	
minimum elong	11305 Oct 10 03:13	28°♂37'15	4°25'47	inferior conj	11306 Sep 20 14:18	8°♂38'33	-2°42'50
min. Earth dist.	11305 Oct 11 12:25	27°♂49'41	0.54652 AU	minimum elong	11306 Sep 20 07:06	8°♂49'58	2°40'08
morning rise	11305 Oct 18 19:32	24°♂25'37		min. Earth dist.	11306 Sep 22 22:56	7°♂08'45	0.55480 AU
direct	11305 Oct 23 00:07	23°♂47'54		morning rise	11306 Sep 28 16:02	4°♂12'30	
morning max el	11305 Nov 05 04:06	0°♂09'33	23°14'58	direct	11306 Oct 03 16:31	3°♂16'13	
	11305 Nov 05 00:01	0°♂		morning max el	11306 Oct 17 14:51	10°♂14'28	25°01'44
asc. node	11305 Nov 18 10:00	17°♂53'22			11306 Nov 01 11:20	0°♂	
	11305 Nov 24 20:50	0°♂		asc. node	11306 Nov 05 06:52	6°♂46'37	
morning set	11305 Nov 28 09:49	7°♂21'24		morning set	11306 Nov 12 21:32	22°♂06'31	
					11306 Nov 16 12:35	0°♂	
superior conj	11305 Dec 05 08:07	22°♂18'50	1°38'19				
minimum elong	11305 Dec 05 08:46	22°♂22'22	1°38'58	superior conj	11306 Nov 19 17:05	7°♂01'35	1°38'49
max. Earth dist.	11305 Dec 08 07:14	28°♂37'27	1.33375 AU	minimum elong	11306 Nov 19 16:36	6°♂58'56	1°39'25
	11305 Dec 08 22:59	0°♂		max. Earth dist.	11306 Nov 21 09:42	10°♂44'08	1.32230 AU
evening rise	11305 Dec 13 02:38	8°♂27'31		evening rise	11306 Nov 26 22:36	22°♂30'14	
desc. node	11305 Dec 21 20:15	24°♂42'26			11306 Nov 30 16:32	0°♂	
	11305 Dec 24 23:11	0°♂		desc. node	11306 Dec 08 17:16	14°♂34'44	
	11306 Jan 16 09:51	0°♂			11306 Dec 18 18:46	0°♂	
evening max el	11306 Jan 16 11:35	0°♂04'09	27°19'31	evening max el	11306 Dec 29 22:46	13°♂07'21	27°31'32
retrograde	11306 Jan 30 00:56	7°♂28'23		retrograde	11307 Jan 12 18:01	20°♂27'09	
evening set	11306 Feb 05 19:43	4°♂56'15		evening set	11307 Jan 19 17:38	18°♂03'17	
min. Earth dist.	11306 Feb 09 16:30	1°♂22'34	0.64676 AU	min. Earth dist.	11307 Jan 23 11:27	14°♂58'19	0.62803 AU
	11306 Feb 10 23:13	30°♂♂		inferior conj	11307 Jan 26 07:29	12°♂13'33	-1°57'00
inferior conj	11306 Feb 12 02:11	28°♂46'26	-0°45'01	minimum elong	11307 Jan 26 11:22	12°♂04'07	1°54'52
minimum elong	11306 Feb 12 03:32	28°♂42'44	0°44'03	asc. node	11307 Feb 01 06:03	7°♂30'04	
asc. node	11306 Feb 14 08:47	26°♂24'09		morning rise	11307 Feb 02 07:27	7°♂02'59	
morning rise	11306 Feb 18 13:07	23°♂19'36		direct	11307 Feb 04 14:35	6°♂38'23	
direct	11306 Feb 21 02:57	22°♂45'07		morning max el	11307 Feb 11 05:56	10°♂02'06	17°46'50
morning max el	11306 Feb 27 12:22	26°♂05'04	17°54'11		11307 Feb 24 14:40	0°♂	
	11306 Mar 02 21:35	0°♂		morning set	11307 Feb 27 07:11	4°♂41'47	
morning set	11306 Mar 16 21:07	22°♂02'27		desc. node	11307 Mar 06 17:41	17°♂35'12	

superior conj	11307 Mar 11 04:40	25° H 05'42	-0°33'24	superior conj	11308 Feb 20 17:59	6° H 45'17	0°06'34
minimum elong	11307 Mar 11 01:17	24° H 51'39	0°32'46	minimum elong	11308 Feb 20 18:33	6° H 47'48	0°06'48
	11307 Mar 14 04:03	0° Y		behind sun begin	11308 Feb 20 11:12	6° H 15'34	
max. Earth dist.	11307 Mar 17 17:43	5° Y 46'49	1.44175 AU	behind sun end	11308 Feb 21 01:55	7° H 19'58	
evening rise	11307 Mar 26 03:43	19° Y 00'28		desc. node	11308 Feb 21 14:22	8° H 14'17	
	11307 Apr 02 09:18	0° B		max. Earth dist.	11308 Feb 28 07:20	19° H 36'45	1.42488 AU
	11307 Apr 24 08:49	0° II		evening rise	11308 Mar 05 03:20	29° H 03'32	
evening max el	11307 Apr 25 03:22	0° II 47'59	21°03'08		11308 Mar 05 17:36	0° Y	
asc. node	11307 Apr 30 03:34	4° II 47'39			11308 Mar 26 00:18	0° B	
retrograde	11307 May 03 16:14	5° II 47'26		evening max el	11308 Apr 06 21:32	14° B 33'17	22°19'20
evening set	11307 May 07 22:16	4° II 06'03		asc. node	11308 Apr 16 00:49	20° B 14'42	
	11307 May 11 15:55	30° R B		retrograde	11308 Apr 16 13:34	20° B 16'03	
inferior conj	11307 May 13 04:45	27° B 54'15	3°06'51	evening set	11308 Apr 21 06:26	18° B 19'22	
minimum elong	11307 May 13 03:31	27° B 58'32	3°06'10	inferior conj	11308 Apr 26 13:51	11° B 57'49	2°47'21
min. Earth dist.	11307 May 13 14:37	27° B 20'02	0.68422 AU	minimum elong	11308 Apr 26 11:58	12° B 04'24	2°46'34
morning rise	11307 May 18 08:35	21° B 37'59		min. Earth dist.	11308 Apr 26 10:51	12° B 08'17	0.68717 AU
direct	11307 May 23 15:07	19° B 18'59		morning rise	11308 May 01 17:22	5° B 46'55	
desc. node	11307 Jun 02 18:42	25° B 11'51		direct	11308 May 06 10:29	3° B 47'47	
morning max el	11307 Jun 03 04:23	25° B 36'03	23°27'24	morning max el	11308 May 15 16:56	9° B 12'55	21°59'05
	11307 Jun 07 04:28	0° II		desc. node	11308 May 19 15:35	13° B 33'47	
	11307 Jun 28 15:01	0° B			11308 May 31 22:07	0° II	
morning set	11307 Jul 08 03:13	15° B 23'16		morning set	11308 Jun 17 12:17	25° II 17'28	
max. Earth dist.	11307 Jul 12 03:42	22° B 16'39	1.39224 AU		11308 Jun 20 10:01	0° B	
	11307 Jul 16 11:56	0° Q		max. Earth dist.	11308 Jun 23 03:57	4° B 32'13	1.41476 AU
superior conj	11307 Jul 19 18:22	6° Q 00'19	-1°05'33	superior conj	11308 Jun 30 21:05	17° B 45'49	-1°37'24
minimum elong	11307 Jul 19 22:54	6° Q 21'25	1°05'25	minimum elong	11308 Jul 01 03:31	18° B 14'14	1°37'19
asc. node	11307 Jul 27 02:41	20° Q 01'11			11308 Jul 07 16:01	0° Q	
evening rise	11307 Jul 29 02:26	23° Q 52'36		evening rise	11308 Jul 11 12:18	7° Q 06'02	
	11307 Aug 01 06:56	0° H		asc. node	11308 Jul 12 23:32	9° Q 48'55	
evening max el	11307 Aug 14 05:47	20° H 02'40	18°42'37		11308 Jul 25 04:58	0° H	
retrograde	11307 Aug 22 10:58	24° H 09'33		evening max el	11308 Jul 27 13:49	2° H 40'03	18°13'26
evening set	11307 Aug 24 09:51	23° H 56'24		retrograde	11308 Aug 03 17:21	6° H 17'13	
desc. node	11307 Aug 29 16:54	21° H 29'10		evening set	11308 Aug 05 23:09	5° H 56'29	
inferior conj	11307 Sep 01 10:41	19° H 32'46	-0°51'18	inferior conj	11308 Aug 13 04:54	1° H 12'24	0°43'03
minimum elong	11307 Sep 01 08:35	19° H 36'40	0°50'39	minimum elong	11308 Aug 13 06:18	1° H 09'22	0°42'09
min. Earth dist.	11307 Sep 04 14:23	17° H 13'28	0.57088 AU		11308 Aug 14 14:05	30° R Q	
morning rise	11307 Sep 09 03:57	14° H 29'06		desc. node	11308 Aug 15 14:15	29° Q 07'48	
direct	11307 Sep 14 22:27	13° H 07'31		min. Earth dist.	11308 Aug 16 13:01	28° Q 20'02	0.59191 AU
morning max el	11307 Sep 29 05:25	20° H 34'33	26°33'14	morning rise	11308 Aug 20 10:05	25° Q 34'36	
	11307 Oct 07 08:48	0° Q		direct	11308 Aug 26 18:24	23° Q 43'52	
asc. node	11307 Oct 23 03:40	26° Q 07'10			11308 Sep 08 11:58	0° H	
	11307 Oct 25 02:15	0° M		morning max el	11308 Sep 10 03:10	1° H 32'10	27°34'17
morning set	11307 Oct 28 07:54	6° M 44'56			11308 Sep 30 15:56	0° Q	
superior conj	11307 Nov 04 04:22	21° M 48'25	1°33'24	asc. node	11308 Oct 09 00:25	15° Q 46'47	
minimum elong	11307 Nov 04 02:56	21° M 40'29	1°33'47	morning set	11308 Oct 11 15:04	21° Q 10'49	
max. Earth dist.	11307 Nov 04 17:20	23° M 00'35	1.31562 AU		11308 Oct 15 17:11	0° M	
	11307 Nov 07 21:18	0° X		max. Earth dist.	11308 Oct 18 02:31	5° M 17'20	1.31384 AU
evening rise	11307 Nov 11 01:41	6° X 50'40		superior conj	11308 Oct 18 16:02	6° M 32'33	1°22'20
	11307 Nov 23 04:40	0° B		minimum elong	11308 Oct 18 13:59	6° M 21'08	1°22'26
desc. node	11307 Nov 25 14:21	3° B 58'16		evening rise	11308 Oct 25 09:29	21° M 21'29	
evening max el	11307 Dec 12 05:13	25° B 30'15	27°10'43		11308 Oct 29 13:11	0° X	
	11307 Dec 17 21:26	0° \approx		desc. node	11308 Nov 11 11:30	22° X 40'44	
retrograde	11307 Dec 26 02:58	2° \approx 42'46			11308 Nov 16 19:30	0° B	
evening set	11308 Jan 02 01:06	0° \approx 35'46		evening max el	11308 Nov 23 04:16	7° B 02'08	26°15'47
	11308 Jan 02 23:39	30° R B		retrograde	11308 Dec 07 02:33	14° B 07'06	
min. Earth dist.	11308 Jan 05 19:41	27° B 52'11	0.60728 AU	evening set	11308 Dec 13 13:52	12° B 26'08	
inferior conj	11308 Jan 08 22:52	25° B 12'08	-3°14'07	min. Earth dist.	11308 Dec 17 17:30	9° B 50'55	0.58602 AU
minimum elong	11308 Jan 09 05:29	24° B 58'00	3°11'06	inferior conj	11308 Dec 20 20:43	7° B 31'36	-4°29'05
morning rise	11308 Jan 16 12:36	20° B 21'11		minimum elong	11308 Dec 21 04:56	7° B 16'21	4°26'10
direct	11308 Jan 18 15:45	20° B 02'54		morning rise	11308 Dec 28 22:44	3° B 02'46	
asc. node	11308 Jan 19 03:14	20° B 03'51		direct	11308 Dec 31 01:55	2° B 47'26	
morning max el	11308 Jan 25 21:06	23° B 39'58	17°57'54	asc. node	11309 Jan 05 00:22	4° B 14'47	
	11308 Jan 30 22:35	0° \approx		morning max el	11309 Jan 08 06:10	6° B 47'40	18°28'56
morning set	11308 Feb 10 11:30	18° \approx 12'14			11309 Jan 23 00:00	0° \approx	
	11308 Feb 16 22:39	0° H		morning set	11309 Jan 24 04:36	2° \approx 17'02	

superior conj	11309 Feb 02 04:59	19° \approx 25'18	0°40'15	superior conj	11310 Jan 16 08:49	2° \approx 51'47	1°06'12
minimum elong	11309 Feb 02 07:34	19° \approx 37'17	0°40'21	minimum elong	11310 Jan 16 11:48	3° \approx 06'19	1°06'25
desc. node	11309 Feb 07 11:06	28° \approx 54'51		max. Earth dist.	11310 Jan 22 21:51	15° \approx 12'32	1.38193 AU
	11309 Feb 08 01:55	0° \mathbb{H}		desc. node	11310 Jan 25 07:51	19° \approx 33'17	
max. Earth dist.	11309 Feb 09 15:54	2° \mathbb{H} 45'08	1.40412 AU	evening rise	11310 Jan 26 15:42	21° \approx 53'30	
evening rise	11309 Feb 13 22:50	10° \mathbb{H} 00'37			11310 Jan 31 10:01	0° \mathbb{H}	
	11309 Feb 26 16:29	0° \mathbb{Y}			11310 Feb 20 14:42	0° \mathbb{Y}	
evening max el	11309 Mar 20 12:17	28° \mathbb{Y} 21'03	23°39'54	evening max el	11310 Mar 03 01:50	12° \mathbb{Y} 11'39	24°58'15
	11309 Mar 22 05:52	0° \mathbb{B}		retrograde	11310 Mar 14 22:47	19° \mathbb{Y} 05'57	
retrograde	11309 Mar 31 08:11	4° \mathbb{B} 44'09		evening set	11310 Mar 20 15:08	16° \mathbb{Y} 44'00	
asc. node	11309 Apr 02 22:05	4° \mathbb{B} 12'55		asc. node	11310 Mar 20 19:24	16° \mathbb{Y} 34'49	
evening set	11309 Apr 05 12:35	2° \mathbb{B} 33'40		min. Earth dist.	11310 Mar 25 02:28	11° \mathbb{Y} 43'24	0.67987 AU
	11309 Apr 07 23:39	30° \mathbb{R} \mathbb{Y}		inferior conj	11310 Mar 26 05:40	10° \mathbb{Y} 13'52	1°39'17
inferior conj	11309 Apr 10 22:47	26° \mathbb{Y} 05'40	2°18'06	minimum elong	11310 Mar 26 03:40	10° \mathbb{Y} 20'26	1°38'32
minimum elong	11309 Apr 10 20:37	26° \mathbb{Y} 13'06	2°17'15	morning rise	11310 Mar 31 16:27	4° \mathbb{Y} 17'27	
min. Earth dist.	11309 Apr 10 07:33	26° \mathbb{Y} 57'51	0.68564 AU	direct	11310 Apr 04 08:08	3° \mathbb{Y} 00'44	
morning rise	11309 Apr 16 04:38	20° \mathbb{Y} 01'19		morning max el	11310 Apr 11 13:14	7° \mathbb{Y} 00'11	19°32'05
direct	11309 Apr 20 08:37	18° \mathbb{Y} 23'38		desc. node	11310 Apr 23 09:11	22° \mathbb{Y} 17'24	
morning max el	11309 Apr 28 11:17	23° \mathbb{Y} 00'54	20°39'01	greatest brilliancy	11310 Apr 24 05:53	23° \mathbb{Y} 33'16	-0.7m
	11309 May 04 11:51	0° \mathbb{B}			11310 Apr 28 13:37	0° \mathbb{B}	
desc. node	11309 May 06 12:25	2° \mathbb{B} 39'41		morning set	11310 May 06 20:47	12° \mathbb{B} 39'25	
	11309 May 25 04:53	0° \mathbb{II}			11310 May 18 00:16	0° \mathbb{II}	
morning set	11309 May 27 21:19	4° \mathbb{II} 08'46		max. Earth dist.	11310 May 18 23:27	1° \mathbb{II} 31'25	1.44859 AU
max. Earth dist.	11309 Jun 05 10:21	17° \mathbb{II} 39'35	1.43426 AU				
				superior conj	11310 May 23 05:25	8° \mathbb{II} 16'44	-2°13'10
superior conj	11309 Jun 12 01:16	28° \mathbb{II} 31'45	-2°02'10	minimum elong	11310 May 23 06:07	8° \mathbb{II} 19'34	2°13'47
minimum elong	11309 Jun 12 07:06	28° \mathbb{II} 56'11	2°02'29		11310 Jun 05 11:34	0° \mathbb{B}	
	11309 Jun 12 22:20	0° \mathbb{B}		evening rise	11310 Jun 06 04:29	1° \mathbb{B} 10'45	
evening rise	11309 Jun 24 06:39	19° \mathbb{B} 36'03		asc. node	11310 Jun 16 17:27	18° \mathbb{B} 33'48	
asc. node	11309 Jun 29 20:27	29° \mathbb{B} 21'55		evening max el	11310 Jun 24 16:36	29° \mathbb{B} 11'14	18°13'09
	11309 Jun 30 05:18	0° \mathbb{Q}			11310 Jun 25 13:25	0° \mathbb{Q}	
evening max el	11309 Jul 11 02:38	15° \mathbb{Q} 46'16	18°03'58	retrograde	11310 Jul 01 01:12	2° \mathbb{Q} 32'55	
retrograde	11309 Jul 17 15:36	19° \mathbb{Q} 08'28		evening set	11310 Jul 03 23:08	1° \mathbb{Q} 47'33	
evening set	11309 Jul 20 05:23	18° \mathbb{Q} 36'42			11310 Jul 06 12:11	30° \mathbb{R} \mathbb{B}	
inferior conj	11309 Jul 26 18:30	13° \mathbb{Q} 33'10	1°52'40	inferior conj	11310 Jul 09 23:23	26° \mathbb{B} 26'10	2°38'48
minimum elong	11309 Jul 26 21:10	13° \mathbb{Q} 26'31	1°51'19	minimum elong	11310 Jul 10 01:49	26° \mathbb{B} 19'21	2°37'38
min. Earth dist.	11309 Jul 29 20:19	10° \mathbb{Q} 30'23	0.61470 AU	min. Earth dist.	11310 Jul 12 12:48	23° \mathbb{B} 34'55	0.63649 AU
morning rise	11309 Aug 02 10:26	7° \mathbb{Q} 31'37		morning rise	11310 Jul 16 02:57	20° \mathbb{B} 11'07	
desc. node	11309 Aug 02 11:32	7° \mathbb{Q} 29'43		desc. node	11310 Jul 20 08:48	17° \mathbb{B} 55'47	
direct	11309 Aug 09 02:15	5° \mathbb{Q} 14'20		direct	11310 Jul 22 19:20	17° \mathbb{B} 35'43	
morning max el	11309 Aug 23 07:32	13° \mathbb{Q} 14'46	27°57'23	morning max el	11310 Aug 05 16:16	25° \mathbb{B} 37'42	27°42'45
	11309 Sep 05 16:58	0° \mathbb{P}			11310 Aug 09 16:41	0° \mathbb{Q}	
	11309 Sep 23 02:02	0° \mathbb{L}			11310 Aug 30 05:49	0° \mathbb{P}	
morning set	11309 Sep 25 17:10	5° \mathbb{L} 19'17		morning set	11310 Sep 09 11:53	19° \mathbb{P} 03'49	
asc. node	11309 Sep 25 21:10	5° \mathbb{L} 39'52		asc. node	11310 Sep 12 17:54	25° \mathbb{P} 41'06	
max. Earth dist.	11309 Oct 01 09:27	17° \mathbb{L} 24'43	1.31710 AU	max. Earth dist.	11310 Sep 14 10:27	29° \mathbb{P} 13'26	1.32546 AU
					11310 Sep 14 19:15	0° \mathbb{L}	
superior conj	11309 Oct 03 02:17	21° \mathbb{L} 08'59	1°05'52				
minimum elong	11309 Oct 03 00:03	20° \mathbb{L} 56'37	1°05'42	superior conj	11310 Sep 17 09:11	5° \mathbb{L} 31'42	0°44'13
	11309 Oct 07 02:26	0° \mathbb{M}		minimum elong	11310 Sep 17 07:17	5° \mathbb{L} 21'26	0°43'53
evening rise	11309 Oct 09 20:04	5° \mathbb{M} 57'37		evening rise	11310 Sep 24 07:29	20° \mathbb{L} 33'29	
	11309 Oct 22 07:28	0° \mathbb{J}			11310 Sep 28 20:34	0° \mathbb{M}	
desc. node	11309 Oct 29 08:44	10° \mathbb{J} 26'29		desc. node	11310 Oct 16 06:02	26° \mathbb{M} 54'12	
evening max el	11309 Nov 04 19:16	17° \mathbb{J} 44'02	24°51'51	evening max el	11310 Oct 17 05:53	27° \mathbb{M} 53'57	23°12'14
retrograde	11309 Nov 18 14:47	24° \mathbb{J} 39'31			11310 Oct 19 14:28	0° \mathbb{J}	
evening set	11309 Nov 24 03:28	23° \mathbb{J} 31'06		retrograde	11310 Oct 30 13:55	4° \mathbb{J} 32'14	
min. Earth dist.	11309 Nov 29 07:03	20° \mathbb{J} 46'33	0.56676 AU	evening set	11310 Nov 03 17:41	3° \mathbb{J} 54'42	
inferior conj	11309 Dec 01 22:26	19° \mathbb{J} 04'12	-5°27'43	min. Earth dist.	11310 Nov 10 15:23	0° \mathbb{J} 42'38	0.55251 AU
minimum elong	11309 Dec 02 04:40	18° \mathbb{J} 54'05	5°26'09		11310 Nov 11 20:49	30° \mathbb{R} \mathbb{M}	
morning rise	11309 Dec 10 08:04	14° \mathbb{J} 57'05		inferior conj	11310 Nov 12 04:33	29° \mathbb{M} 48'46	-5°48'52
direct	11309 Dec 12 17:30	14° \mathbb{J} 41'02		minimum elong	11310 Nov 12 03:43	29° \mathbb{M} 49'58	5°48'17
morning max el	11309 Dec 22 05:08	19° \mathbb{J} 14'03	19°21'47	morning rise	11310 Nov 20 15:26	25° \mathbb{M} 58'03	
asc. node	11309 Dec 22 21:28	19° \mathbb{J} 54'39		direct	11310 Nov 23 14:36	25° \mathbb{M} 37'05	
	11309 Dec 30 07:35	0° \mathbb{Z}			11310 Dec 03 16:44	0° \mathbb{J}	
morning set	11310 Jan 08 06:21	16° \mathbb{Z} 44'12		morning max el	11310 Dec 04 14:50	0° \mathbb{J} 50'13	20°37'32
	11310 Jan 14 21:44	0° \approx		asc. node	11310 Dec 09 18:30	6° \mathbb{J} 48'02	
					11310 Dec 22 21:09	0° \mathbb{Z}	

morning set	11310 Dec 23 13:43	1° Z 25'11		morning set	11311 Dec 08 00:16	16° Z 12'08	
					11311 Dec 14 11:36	0° Z	
superior conj	11310 Dec 31 01:03	16° Z 52'29	1°24'20	superior conj	11311 Dec 15 01:58	1° Z 16'04	1°35'09
minimum elong	11310 Dec 31 03:27	17° Z 04'40	1°24'46	minimum elong	11311 Dec 15 03:18	1° Z 23'07	1°35'46
max. Earth dist.	11311 Jan 05 06:05	27° Z 14'02	1.36074 AU	max. Earth dist.	11311 Dec 18 20:29	9° Z 07'21	1.34245 AU
	11311 Jan 06 16:42	0° \approx		evening rise	11311 Dec 23 06:25	17° Z 54'43	
evening rise	11311 Jan 09 03:29	4° \approx 35'02			11311 Dec 29 19:21	0° \approx	
desc. node	11311 Jan 12 04:42	10° \approx 05'52		desc. node	11311 Dec 30 01:35	0° \approx 27'25	
	11311 Jan 24 07:47	0° X			11312 Jan 18 14:04	0° X	
evening max el	11311 Feb 13 15:28	26° X 01'47	26°07'13	evening max el	11312 Jan 27 05:00	9° X 41'54	26°59'34
	11311 Feb 18 06:25	0° Y		retrograde	11312 Feb 09 12:14	17° X 04'51	
retrograde	11311 Feb 26 08:26	3° Y 15'40		evening set	11312 Feb 16 02:37	14° X 31'24	
evening set	11311 Mar 04 12:29	0° Y 45'34		min. Earth dist.	11312 Feb 20 01:59	10° X 39'36	0.65633 AU
	11311 Mar 05 09:12	30° R X		inferior conj	11312 Feb 22 05:07	8° X 13'32	-0°07'18
asc. node	11311 Mar 07 16:44	27° X 33'21		minimum elong	11312 Feb 22 05:19	8° X 12'58	0°06'54
min. Earth dist.	11311 Mar 08 17:22	26° X 19'51	0.67004 AU	transit middle	11312 Feb 22 05:19	8° X 12'58	0°06'54
inferior conj	11311 Mar 10 08:32	24° X 18'33	0°50'50	transit begin	11312 Feb 22 02:37	8° X 20'41	
minimum elong	11311 Mar 10 07:18	24° X 22'24	0°50'29	transit end	11312 Feb 22 08:00	8° X 05'16	
morning rise	11311 Mar 16 02:49	18° X 31'55		asc. node	11312 Feb 22 14:03	7° X 48'02	
direct	11311 Mar 19 07:22	17° X 34'05		morning rise	11312 Feb 28 09:21	2° X 38'56	
morning max el	11311 Mar 25 22:35	21° X 08'29	18°40'53	direct	11312 Mar 02 04:07	1° X 56'59	
	11311 Apr 02 01:45	0° Y		morning max el	11312 Mar 08 13:23	5° X 18'42	18°06'20
desc. node	11311 Apr 10 05:55	12° Y 18'37			11312 Mar 25 12:09	0° Y	
morning set	11311 Apr 16 10:01	21° Y 56'52		morning set	11312 Mar 27 02:50	2° Y 37'07	
	11311 Apr 21 13:30	0° Z		desc. node	11312 Mar 27 02:35	2° Y 36'07	
max. Earth dist.	11311 May 01 17:44	15° Z 54'18	1.45618 AU				
superior conj	11311 May 02 15:40	17° Z 20'07	-2°04'47	superior conj	11312 Apr 10 23:36	26° Y 24'24	-1°37'10
minimum elong	11311 May 02 08:58	16° Z 53'54	2°04'54	minimum elong	11312 Apr 10 14:12	25° Y 47'27	1°36'27
	11311 May 10 16:57	0° II			11312 Apr 13 06:32	0° Z	
evening rise	11311 May 18 02:28	11° II 45'54		max. Earth dist.	11312 Apr 13 13:51	0° Z 28'37	1.45622 AU
greatest brilliancy	11311 May 25 10:28	23° II 28'48	-0.9m	evening rise	11312 Apr 27 02:21	21° Z 30'07	
	11311 May 29 14:31	0° Z			11312 May 02 14:22	0° II	
asc. node	11311 Jun 03 14:31	7° Z 17'30		greatest brilliancy	11312 May 09 16:11	10° II 46'37	-0.7m
evening max el	11311 Jun 08 04:45	12° Z 47'40	18°40'11	asc. node	11312 May 20 11:39	25° II 23'47	
retrograde	11311 Jun 14 18:16	16° Z 22'28		evening max el	11312 May 21 12:45	26° II 29'46	19°24'12
evening set	11311 Jun 18 00:24	15° Z 22'02			11312 May 26 06:41	0° Z	
inferior conj	11311 Jun 23 15:37	9° Z 44'21	3°05'16	retrograde	11312 May 28 15:31	0° Z 30'20	
minimum elong	11311 Jun 23 17:06	9° Z 39'48	3°04'24		11312 May 30 22:19	30° R II	
min. Earth dist.	11311 Jun 25 14:16	7° Z 21'23	0.65533 AU	evening set	11312 Jun 01 06:15	29° II 14'07	
morning rise	11311 Jun 29 08:59	3° Z 23'28		inferior conj	11312 Jun 06 15:52	23° II 21'47	3°15'52
direct	11311 Jul 05 20:07	0° Z 40'41		minimum elong	11312 Jun 06 16:12	23° II 20'39	3°15'11
desc. node	11311 Jul 07 06:01	0° Z 47'37		min. Earth dist.	11312 Jun 07 23:38	21° II 37'31	0.67009 AU
morning max el	11311 Jul 19 03:01	8° Z 32'01	26°55'41	morning rise	11312 Jun 12 01:43	17° II 00'10	
	11311 Aug 04 20:41	0° Z		direct	11312 Jun 18 03:27	14° II 20'15	
	11311 Aug 22 15:29	0° Z		desc. node	11312 Jun 23 03:07	15° II 47'08	
morning set	11311 Aug 23 20:17	2° Z 16'55		morning max el	11312 Jun 30 13:42	21° II 46'36	25°44'32
max. Earth dist.	11311 Aug 28 02:20	10° Z 38'31	1.33895 AU		11312 Jul 07 17:37	0° Z	
asc. node	11311 Aug 30 14:39	15° Z 46'14			11312 Jul 28 02:27	0° Z	
superior conj	11311 Sep 01 10:28	19° Z 34'18	0°17'45	morning set	11312 Aug 05 14:43	14° Z 49'52	
minimum elong	11311 Sep 01 09:34	19° Z 29'32	0°17'23	max. Earth dist.	11312 Aug 09 08:01	21° Z 46'21	1.35715 AU
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evening rise	11311 Sep 08 17:49	5° Z 03'25		superior conj	11312 Aug 15 03:30	3° Z 10'20	-0°12'49
	11311 Sep 22 06:33	0° Z		minimum elong	11312 Aug 15 04:18	3° Z 14'19	0°13'03
evening max el	11311 Sep 28 20:32	8° Z 05'10	21°34'12	behind sun begin	11312 Aug 15 00:38	2° Z 55'52	
desc. node	11311 Oct 03 03:23	11° Z 35'53		behind sun end	11312 Aug 15 07:58	3° Z 32'47	
retrograde	11311 Oct 11 03:00	14° Z 11'10		asc. node	11312 Aug 16 11:24	5° Z 51'44	
evening set	11311 Oct 13 21:43	13° Z 53'33		evening rise	11312 Aug 23 01:00	19° Z 21'59	
inferior conj	11311 Oct 22 21:53	9° Z 57'40	-5°14'08		11312 Aug 28 09:04	0° Z	
minimum elong	11311 Oct 22 13:27	10° Z 09'28	5°12'09	evening max el	11312 Sep 09 23:11	18° Z 51'02	20°11'10
min. Earth dist.	11311 Oct 22 22:06	9° Z 57'23	0.54601 AU	desc. node	11312 Sep 19 00:45	24° Z 03'01	
morning rise	11311 Oct 31 06:14	6° Z 09'16		retrograde	11312 Sep 20 16:03	24° Z 10'15	
direct	11311 Nov 03 23:38	5° Z 39'12		evening set	11312 Sep 22 15:32	24° Z 00'08	
morning max el	11311 Nov 16 11:06	11° Z 35'38	22°13'49	inferior conj	11312 Oct 01 16:06	20° Z 01'49	-3°46'39
asc. node	11311 Nov 26 15:29	24° Z 38'21		minimum elong	11312 Oct 01 06:39	20° Z 15'51	3°43'26
	11311 Nov 29 19:09	0° Z		min. Earth dist.	11312 Oct 03 06:45	19° Z 04'25	0.54886 AU





































































































































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direct	11312 Oct 14 09:35	15° Ω 09'45			11313 Sep 12 19:24	30° \mathcal{R} \mathcal{M}	
morning max el	11312 Oct 27 23:13	21° Ω 47'51	24°01'12	min. Earth dist.	11313 Sep 14 19:25	28° \mathcal{M} 39'18	0.56078 AU
	11312 Nov 04 02:39	0° \mathcal{M}		morning rise	11313 Sep 19 23:12	25° \mathcal{M} 49'43	
asc. node	11312 Nov 12 12:22	13° \mathcal{M} 11'56		direct	11313 Sep 25 07:37	24° \mathcal{M} 43'16	
	11312 Nov 21 00:53	0° \mathcal{Z}			11313 Oct 07 07:17	0° Ω	
morning set	11312 Nov 21 12:04	0° \mathcal{Z} 59'36		morning max el	11313 Oct 09 10:59	1° Ω 55'45	25°43'34
					11313 Oct 29 04:03	0° \mathcal{M}	
superior conj	11312 Nov 28 08:42	15° \mathcal{Z} 54'17	1°39'16	asc. node	11313 Oct 30 09:11	2° \mathcal{M} 17'22	
minimum elong	11312 Nov 28 08:51	15° \mathcal{Z} 55'09	1°39'55	morning set	11313 Nov 05 23:23	15° \mathcal{M} 42'03	
max. Earth dist.	11312 Nov 30 18:37	21° \mathcal{Z} 06'53	1.32827 AU		11313 Nov 12 11:46	0° \mathcal{Z}	
	11312 Dec 05 00:31	0° \mathcal{Z}					
evening rise	11312 Dec 05 21:03	1° \mathcal{Z} 44'04		superior conj	11313 Nov 12 18:53	0° \mathcal{Z} 39'24	1°37'13
desc. node	11312 Dec 15 22:33	20° \mathcal{Z} 32'30		minimum elong	11313 Nov 12 17:58	0° \mathcal{Z} 34'21	1°37'45
	11312 Dec 21 17:10	0° \approx		max. Earth dist.	11313 Nov 13 23:22	3° \mathcal{Z} 16'45	1.31879 AU
evening max el	11313 Jan 08 17:23	23° \approx 01'39	27°28'11	evening rise	11313 Nov 19 20:19	15° \mathcal{Z} 54'50	
	11313 Jan 19 10:31	0° \mathcal{X}			11313 Nov 26 23:53	0° \mathcal{Z}	
retrograde	11313 Jan 22 09:43	0° \mathcal{X} 25'06		desc. node	11313 Dec 02 19:37	10° \mathcal{Z} 13'42	
	11313 Jan 25 06:10	30° \mathcal{R} \approx			11313 Dec 16 16:04	0° \approx	
evening set	11313 Jan 29 07:17	27° \approx 55'05		evening max el	11313 Dec 22 02:47	5° \approx 49'00	27°26'55
min. Earth dist.	11313 Feb 02 02:21	24° \approx 34'34	0.63918 AU	retrograde	11314 Jan 04 23:49	13° \approx 06'46	
inferior conj	11313 Feb 04 16:50	21° \approx 52'58	-1°14'39	evening set	11314 Jan 11 23:34	10° \approx 48'54	
minimum elong	11313 Feb 04 19:12	21° \approx 46'50	1°13'11	min. Earth dist.	11314 Jan 15 16:58	7° \approx 54'09	0.61931 AU
asc. node	11313 Feb 08 11:20	18° \approx 19'10		inferior conj	11314 Jan 18 16:39	5° \approx 09'18	-2°29'23
morning rise	11313 Feb 11 09:11	16° \approx 33'00		minimum elong	11314 Jan 18 21:43	4° \approx 57'36	2°26'49
direct	11313 Feb 13 19:52	16° \approx 03'15		morning rise	11314 Jan 25 22:31	0° \approx 06'48	
morning max el	11313 Feb 20 06:53	19° \approx 23'27	17°48'51	asc. node	11314 Jan 26 08:33	29° \mathcal{Z} 59'32	
	11313 Feb 28 05:04	0° \mathcal{X}			11314 Jan 26 07:51	30° \mathcal{R} \mathcal{Z}	
morning set	11313 Mar 08 23:24	14° \mathcal{X} 37'57		direct	11314 Jan 28 03:23	29° \mathcal{Z} 45'28	
desc. node	11313 Mar 13 23:13	23° \mathcal{X} 05'07			11314 Jan 29 22:23	0° \approx	
	11313 Mar 18 02:51	0° \mathcal{Y}		morning max el	11314 Feb 03 23:53	3° \approx 14'02	17°49'11
				morning set	11314 Feb 19 18:03	27° \approx 41'45	
superior conj	11313 Mar 21 22:42	6° \mathcal{Y} 15'35	-0°57'42		11314 Feb 21 00:59	0° \mathcal{X}	
minimum elong	11313 Mar 21 16:33	5° \mathcal{Y} 50'39	0°56'52	desc. node	11314 Feb 28 19:52	13° \mathcal{X} 41'50	
max. Earth dist.	11313 Mar 27 08:45	14° \mathcal{Y} 56'27	1.44892 AU				
	11313 Apr 06 00:42	0° \mathcal{B}		superior conj	11314 Mar 02 21:55	17° \mathcal{X} 15'52	-0°15'54
evening rise	11313 Apr 06 14:12	0° \mathcal{B} 51'45		minimum elong	11314 Mar 02 20:26	17° \mathcal{X} 09'33	0°15'27
	11313 Apr 26 07:18	0° \mathcal{I}		behind sun begin	11314 Mar 02 18:09	16° \mathcal{X} 59'50	
evening max el	11313 May 04 15:15	10° \mathcal{I} 13'39	20°23'26	behind sun end	11314 Mar 02 22:43	17° \mathcal{X} 19'16	
asc. node	11313 May 07 08:50	12° \mathcal{I} 40'10		max. Earth dist.	11314 Mar 10 00:29	29° \mathcal{X} 03'36	1.43516 AU
retrograde	11313 May 12 14:18	14° \mathcal{I} 50'03			11314 Mar 10 14:25	0° \mathcal{Y}	
evening set	11313 May 16 14:24	13° \mathcal{I} 17'56		evening rise	11314 Mar 17 05:43	10° \mathcal{Y} 31'28	
inferior conj	11313 May 21 21:19	7° \mathcal{I} 12'38	3°13'26		11314 Mar 30 03:49	0° \mathcal{B}	
minimum elong	11313 May 21 20:36	7° \mathcal{I} 15'06	3°12'47	evening max el	11314 Apr 17 12:16	23° \mathcal{B} 59'04	21°34'43
min. Earth dist.	11313 May 22 14:57	6° \mathcal{I} 12'13	0.68035 AU	asc. node	11314 Apr 24 06:05	28° \mathcal{B} 52'16	
morning rise	11313 May 27 02:31	0° \mathcal{I} 53'37		retrograde	11314 Apr 26 12:36	29° \mathcal{B} 17'07	
	11313 May 28 04:50	30° \mathcal{R} \mathcal{B}		evening set	11314 Apr 30 23:02	27° \mathcal{B} 29'21	
direct	11313 Jun 01 16:25	28° \mathcal{B} 25'02		inferior conj	11314 May 06 05:41	21° \mathcal{B} 13'10	2°59'49
	11313 Jun 06 16:20	0° \mathcal{I}		minimum elong	11314 May 06 04:08	21° \mathcal{B} 18'34	2°59'05
desc. node	11313 Jun 10 00:07	2° \mathcal{I} 24'40		min. Earth dist.	11314 May 06 10:04	20° \mathcal{B} 57'53	0.68603 AU
morning max el	11313 Jun 12 23:28	5° \mathcal{I} 11'18	24°19'01	morning rise	11314 May 11 09:02	14° \mathcal{B} 58'49	
	11313 Jul 02 02:40	0° \mathcal{E}		direct	11314 May 16 09:54	12° \mathcal{B} 47'39	
morning set	11313 Jul 18 14:28	26° \mathcal{E} 30'05		morning max el	11314 May 26 09:57	18° \mathcal{B} 43'03	22°49'07
	11313 Jul 20 14:24	0° \mathcal{Q}		desc. node	11314 May 27 21:01	20° \mathcal{B} 14'38	
max. Earth dist.	11313 Jul 22 06:07	2° \mathcal{Q} 57'03	1.37892 AU		11314 Jun 04 20:54	0° \mathcal{I}	
					11314 Jun 25 05:40	0° \mathcal{E}	
superior conj	11313 Jul 29 08:55	16° \mathcal{Q} 11'02	-0°46'06	morning set	11314 Jun 29 14:35	7° \mathcal{E} 05'15	
minimum elong	11313 Jul 29 12:01	16° \mathcal{Q} 25'55	0°46'05	max. Earth dist.	11314 Jul 04 03:27	14° \mathcal{E} 41'54	1.40204 AU
asc. node	11313 Aug 03 08:10	25° \mathcal{Q} 53'24					
	11313 Aug 05 09:51	0° \mathcal{M}		superior conj	11314 Jul 11 22:42	28° \mathcal{E} 27'30	-1°19'34
evening rise	11313 Aug 07 02:28	3° \mathcal{M} 21'44		minimum elong	11314 Jul 12 04:12	28° \mathcal{E} 52'31	1°19'25
	11313 Aug 23 06:13	0° Ω			11314 Jul 12 18:58	0° \mathcal{Q}	
evening max el	11313 Aug 23 15:43	0° Ω 24'06	19°08'48	asc. node	11314 Jul 21 05:00	15° \mathcal{Q} 47'43	
retrograde	11313 Sep 01 16:43	4° Ω 54'26		evening rise	11314 Jul 21 19:08	16° \mathcal{Q} 54'56	
evening set	11313 Sep 03 13:05	4° Ω 43'55			11314 Jul 28 21:02	0° \mathcal{M}	
desc. node	11313 Sep 05 22:07	4° Ω 01'50		evening max el	11314 Aug 06 19:20	12° \mathcal{M} 41'16	18°27'45
inferior conj	11313 Sep 12 00:37	0° Ω 31'55	-1°54'29	retrograde	11314 Aug 14 12:02	16° \mathcal{M} 33'12	

evening set	11314 Aug 16 13:42	16° \mathbb{M} 17'14		evening max el	11315 Jul 21 05:54	25° Ω 32'23	18°07'03
desc. node	11314 Aug 23 19:27	12° \mathbb{M} 06'37		retrograde	11315 Jul 28 01:43	29° Ω 01'10	
inferior conj	11314 Aug 24 06:20	11° \mathbb{M} 45'10	-0°08'23	evening set	11315 Jul 30 11:01	28° Ω 35'57	
minimum elong	11314 Aug 24 06:00	11° \mathbb{M} 45'49	0°08'33	inferior conj	11315 Aug 06 09:14	23° Ω 43'08	1°15'40
transit middle	11314 Aug 24 06:00	11° \mathbb{M} 45'49	0°08'33	minimum elong	11315 Aug 06 11:24	23° Ω 38'07	1°14'28
transit begin	11314 Aug 24 02:59	11° \mathbb{M} 51'48		min. Earth dist.	11315 Aug 09 15:37	20° Ω 43'49	0.60163 AU
transit end	11314 Aug 24 09:02	11° \mathbb{M} 39'49		desc. node	11315 Aug 10 16:46	19° Ω 50'29	
min. Earth dist.	11314 Aug 27 13:42	9° \mathbb{M} 09'09	0.57949 AU	morning rise	11315 Aug 13 08:49	17° Ω 54'13	
morning rise	11314 Aug 31 18:47	6° \mathbb{M} 26'11		direct	11315 Aug 19 21:14	15° Ω 51'40	
direct	11314 Sep 06 20:10	4° \mathbb{M} 51'56		morning max el	11315 Sep 03 04:48	23° Ω 45'17	27°48'56
morning max el	11314 Sep 21 04:10	12° \mathbb{M} 28'57	27°03'29		11315 Sep 08 19:50	0° \mathbb{M}	
	11314 Oct 04 22:46	0° \mathbb{L}			11315 Sep 28 04:54	0° \mathbb{L}	
asc. node	11314 Oct 17 05:57	21° \mathbb{L} 46'34		asc. node	11315 Oct 04 02:43	11° \mathbb{L} 32'55	
morning set	11314 Oct 21 08:34	0° \mathbb{M} 15'13		morning set	11315 Oct 05 13:52	14° \mathbb{L} 34'42	
	11314 Oct 21 05:42	0° \mathbb{M}		max. Earth dist.	11315 Oct 11 16:53	27° \mathbb{L} 48'58	1.31464 AU
superior conj	11314 Oct 28 06:32	15° \mathbb{M} 25'36	1°29'22	superior conj	11315 Oct 12 17:51	0° \mathbb{M} 07'29	1°16'00
minimum elong	11314 Oct 28 04:48	15° \mathbb{M} 15'56	1°29'39	minimum elong	11315 Oct 12 15:40	29° \mathbb{L} 55'19	1°15'59
max. Earth dist.	11314 Oct 28 07:58	15° \mathbb{M} 33'34	1.31425 AU		11315 Oct 12 16:31	0° \mathbb{M}	
	11314 Nov 03 21:51	0° \mathbb{L}		evening rise	11315 Oct 19 10:57	14° \mathbb{M} 54'52	
evening rise	11314 Nov 04 01:41	0° \mathbb{L} 20'23			11315 Oct 26 21:25	0° \mathbb{L}	
desc. node	11314 Nov 19 16:46	29° \mathbb{L} 21'16		desc. node	11315 Nov 06 13:59	17° \mathbb{L} 42'19	
	11314 Nov 20 02:43	0° \mathbb{L}		evening max el	11315 Nov 16 02:20	29° \mathbb{L} 02'25	25°43'04
evening max el	11314 Dec 04 06:34	17° \mathbb{L} 51'37	26°51'34		11315 Nov 17 03:23	0° \mathbb{L}	
retrograde	11314 Dec 18 05:01	25° \mathbb{L} 00'39		retrograde	11315 Nov 29 23:37	6° \mathbb{L} 02'54	
evening set	11314 Dec 24 23:37	23° \mathbb{L} 04'08		evening set	11315 Dec 06 03:00	4° \mathbb{L} 35'22	
min. Earth dist.	11314 Dec 28 20:54	20° \mathbb{L} 25'41	0.59808 AU	min. Earth dist.	11315 Dec 10 14:44	1° \mathbb{L} 58'42	0.57742 AU
inferior conj	11315 Jan 01 01:01	17° \mathbb{L} 52'40	-3°46'53		11315 Dec 13 10:54	30° \mathbb{L} 2	
minimum elong	11315 Jan 01 08:34	17° \mathbb{L} 37'26	3°43'45	inferior conj	11315 Dec 13 14:35	29° \mathbb{L} 53'34	-4°57'06
morning rise	11315 Jan 08 20:16	13° \mathbb{L} 10'35		minimum elong	11315 Dec 13 22:33	29° \mathbb{L} 39'37	4°54'38
direct	11315 Jan 10 22:48	12° \mathbb{L} 53'58		morning rise	11315 Dec 21 20:32	25° \mathbb{L} 34'04	
asc. node	11315 Jan 13 05:44	13° \mathbb{L} 14'30		direct	11315 Dec 24 01:43	25° \mathbb{L} 18'46	
morning max el	11315 Jan 18 12:53	16° \mathbb{L} 40'08	18°08'33	asc. node	11315 Dec 31 02:50	28° \mathbb{L} 05'11	
	11315 Jan 27 21:48	0° \mathbb{L}		morning max el	11316 Jan 01 18:05	29° \mathbb{L} 31'36	18°48'41
morning set	11315 Feb 03 04:27	11° \mathbb{L} 29'04		morning set	11316 Jan 02 05:31	0° \mathbb{L}	
superior conj	11315 Feb 12 21:01	29° \mathbb{L} 22'45	0°21'44		11316 Jan 18 01:43	25° \mathbb{L} 45'15	
minimum elong	11315 Feb 12 22:41	29° \mathbb{L} 30'14	0°21'53		11316 Jan 20 05:44	0° \mathbb{L}	
	11315 Feb 13 05:21	0° \mathbb{L}		superior conj	11316 Jan 26 15:49	12° \mathbb{L} 24'35	0°52'13
desc. node	11315 Feb 15 16:34	4° \mathbb{L} 22'02		minimum elong	11316 Jan 26 18:44	12° \mathbb{L} 38'22	0°52'20
max. Earth dist.	11315 Feb 20 12:01	12° \mathbb{L} 37'27	1.41640 AU	desc. node	11316 Feb 02 13:20	25° \mathbb{L} 02'22	
evening rise	11315 Feb 25 13:21	20° \mathbb{L} 57'17		max. Earth dist.	11316 Feb 02 19:38	25° \mathbb{L} 30'12	1.39474 AU
	11315 Mar 03 06:45	0° \mathbb{Y}			11316 Feb 05 09:36	0° \mathbb{L}	
	11315 Mar 24 09:41	0° \mathbb{L}		evening rise	11316 Feb 06 18:07	2° \mathbb{L} 18'50	
evening max el	11315 Mar 31 04:56	7° \mathbb{L} 46'21	22°53'28		11316 Feb 24 12:51	0° \mathbb{Y}	
retrograde	11315 Apr 10 08:49	13° \mathbb{L} 46'24		evening max el	11316 Mar 12 19:01	21° \mathbb{Y} 35'53	24°13'48
asc. node	11315 Apr 11 03:22	13° \mathbb{L} 43'33		retrograde	11316 Mar 24 01:45	28° \mathbb{Y} 12'55	
evening set	11315 Apr 15 06:31	11° \mathbb{L} 43'46		asc. node	11316 Mar 28 00:40	27° \mathbb{Y} 01'09	
inferior conj	11315 Apr 20 14:57	5° \mathbb{L} 19'17	2°36'07	evening set	11316 Mar 29 11:22	25° \mathbb{Y} 57'02	
minimum elong	11315 Apr 20 12:54	5° \mathbb{L} 26'25	2°35'18	min. Earth dist.	11316 Apr 03 02:51	20° \mathbb{Y} 36'31	0.68379 AU
min. Earth dist.	11315 Apr 20 06:45	5° \mathbb{L} 47'43	0.68714 AU	inferior conj	11316 Apr 03 23:15	19° \mathbb{Y} 27'43	2°02'48
	11315 Apr 24 21:35	30° \mathbb{L} 1		minimum elong	11316 Apr 03 21:05	19° \mathbb{Y} 35'01	2°01'58
morning rise	11315 Apr 25 19:09	29° \mathbb{Y} 11'04		morning rise	11316 Apr 09 06:55	13° \mathbb{Y} 26'49	
direct	11315 Apr 30 06:44	27° \mathbb{Y} 20'46		direct	11316 Apr 13 05:36	11° \mathbb{Y} 58'14	
	11315 May 06 08:29	0° \mathbb{L}		morning max el	11316 Apr 20 22:04	16° \mathbb{Y} 17'25	20°08'45
morning max el	11315 May 09 00:30	2° \mathbb{L} 24'04	21°23'35	desc. node	11316 Apr 30 14:41	28° \mathbb{Y} 17'39	
desc. node	11315 May 14 17:53	8° \mathbb{L} 57'01			11316 May 01 19:47	0° \mathbb{L}	
	11315 May 29 18:33	0° \mathbb{L}		morning set	11316 May 18 15:00	25° \mathbb{L} 05'17	
morning set	11315 Jun 09 12:33	16° \mathbb{L} 29'46			11316 May 21 19:06	0° \mathbb{L}	
max. Earth dist.	11315 Jun 16 06:19	27° \mathbb{L} 20'45	1.42367 AU	max. Earth dist.	11316 May 28 16:20	10° \mathbb{L} 51'02	1.44118 AU
	11315 Jun 17 20:55	0° \mathbb{L}		superior conj	11316 Jun 03 10:07	20° \mathbb{L} 08'03	-2°08'55
superior conj	11315 Jun 23 16:18	9° \mathbb{L} 48'54	-1°49'09	minimum elong	11316 Jun 03 14:22	20° \mathbb{L} 25'27	2°09'25
minimum elong	11315 Jun 23 22:57	10° \mathbb{L} 17'30	1°49'12		11316 Jun 09 08:38	0° \mathbb{L}	
evening rise	11315 Jul 04 22:58	29° \mathbb{L} 51'17		evening rise	11316 Jun 16 09:12	11° \mathbb{L} 59'21	
	11315 Jul 05 00:53	0° \mathbb{L}		asc. node	11316 Jun 23 22:52	24° \mathbb{L} 54'56	
asc. node	11315 Jul 08 01:54	5° \mathbb{L} 30'01			11316 Jun 27 02:39	0° \mathbb{L}	

evening max el	11316 Jul 03 19:33	8°♎47'18	18°05'34		11317 Jun 02 01:11	0°♊	
retrograde	11316 Jul 10 05:30	12°♎07'47		asc. node	11317 Jun 10 19:54	13°♊56'30	
evening set	11316 Jul 12 22:44	11°♎30'28		evening max el	11317 Jun 17 09:03	22°♊18'20	18°22'28
inferior conj	11316 Jul 19 05:52	6°♎18'49	2°14'54	retrograde	11317 Jun 23 18:52	25°♊44'22	
minimum elong	11316 Jul 19 08:33	6°♎11'43	2°13'36	evening set	11317 Jun 26 20:07	24°♊52'54	
min. Earth dist.	11316 Jul 22 02:44	3°♎18'42	0.62421 AU	inferior conj	11317 Jul 02 16:06	19°♊24'24	2°52'09
morning rise	11316 Jul 25 16:18	0°♎10'13		minimum elong	11317 Jul 02 18:10	19°♊18'19	2°51'07
	11316 Jul 25 22:02	30°♋♊		min. Earth dist.	11317 Jul 04 23:23	16°♊43'16	0.64490 AU
desc. node	11316 Jul 27 14:04	28°♊58'35		morning rise	11317 Jul 08 14:59	13°♊05'46	
direct	11316 Aug 01 08:58	27°♊44'22		desc. node	11317 Jul 14 11:17	10°♊27'48	
	11316 Aug 08 09:33	0°♎		direct	11317 Jul 15 05:38	10°♊25'47	
morning max el	11316 Aug 15 11:35	5°♎46'45	27°55'40	morning max el	11317 Jul 28 21:43	18°♊25'49	27°26'15
	11316 Sep 02 18:54	0°♎			11317 Aug 07 15:34	0°♎	
morning set	11316 Sep 18 13:08	28°♎33'52			11317 Aug 26 17:23	0°♎	
	11316 Sep 19 05:59	0°♎		morning set	11317 Sep 02 03:53	12°♎06'39	
asc. node	11316 Sep 19 23:27	1°♎30'03		asc. node	11317 Sep 06 20:12	21°♎33'48	
max. Earth dist.	11316 Sep 23 21:57	9°♎50'30	1.32003 AU	max. Earth dist.	11317 Sep 06 19:22	21°♎29'28	1.33056 AU
superior conj	11316 Sep 26 02:54	14°♎38'35	0°57'19	superior conj	11317 Sep 10 07:42	28°♎53'41	0°33'34
minimum elong	11316 Sep 26 00:44	14°♎26'41	0°57'03	minimum elong	11317 Sep 10 06:08	28°♎45'20	0°33'10
evening rise	11316 Oct 02 22:06	29°♎31'29			11317 Sep 10 20:06	0°♎	
	11316 Oct 03 03:25	0°♎		evening rise	11317 Sep 17 09:17	14°♎05'30	
	11316 Oct 19 16:02	0°♎			11317 Sep 25 07:56	0°♎	
desc. node	11316 Oct 23 11:16	4°♎58'00		evening max el	11317 Oct 09 01:25	19°♎31'43	22°29'19
evening max el	11316 Oct 27 14:26	9°♎26'25	24°10'19	desc. node	11317 Oct 10 08:34	20°♎44'15	
retrograde	11316 Nov 10 06:17	16°♎16'28		retrograde	11317 Oct 22 00:54	25°♎59'03	
evening set	11316 Nov 15 06:09	15°♎21'39		evening set	11317 Oct 25 13:23	25°♎31'48	
min. Earth dist.	11316 Nov 21 01:17	12°♎27'44	0.55991 AU	min. Earth dist.	11317 Nov 02 08:44	22°♎02'34	0.54864 AU
inferior conj	11316 Nov 23 07:30	11°♎04'41	-5°42'37	inferior conj	11317 Nov 03 06:52	21°♎31'13	-5°41'27
minimum elong	11316 Nov 23 11:18	10°♎58'52	5°41'40	minimum elong	11317 Nov 03 02:22	21°♎37'36	5°40'33
morning rise	11316 Dec 01 18:30	7°♎06'07		morning rise	11317 Nov 11 16:53	17°♎43'40	
direct	11316 Dec 04 08:57	6°♎48'33		direct	11317 Nov 14 23:12	17°♎19'32	
morning max el	11316 Dec 14 11:43	11°♎37'22	19°51'20	morning max el	11317 Nov 26 15:32	22°♎51'26	21°16'22
asc. node	11316 Dec 16 23:55	14°♎18'09			11317 Dec 02 17:46	0°♎	
	11316 Dec 27 00:22	0°♎		asc. node	11317 Dec 03 20:54	1°♎37'20	
morning set	11317 Jan 01 06:10	10°♎19'00		morning set	11317 Dec 16 15:05	25°♎02'40	
					11317 Dec 18 23:47	0°♎	
superior conj	11317 Jan 09 01:26	26°♎07'02	1°14'49	superior conj	11317 Dec 23 21:43	10°♎18'23	1°29'47
minimum elong	11317 Jan 09 04:15	26°♎21'01	1°15'07	minimum elong	11317 Dec 23 23:42	10°♎28'37	1°30'18
	11317 Jan 11 00:45	0°♎		max. Earth dist.	11317 Dec 28 11:47	19°♎37'00	1.35246 AU
max. Earth dist.	11317 Jan 15 01:50	7°♎43'42	1.37262 AU	evening rise	11318 Jan 01 13:59	27°♎31'28	
evening rise	11317 Jan 18 19:22	14°♎32'51			11318 Jan 02 21:49	0°♎	
desc. node	11317 Jan 19 10:09	15°♎38'43		desc. node	11318 Jan 06 07:00	6°♎07'02	
	11317 Jan 27 22:06	0°♎			11318 Jan 21 05:55	0°♎	
	11317 Feb 18 07:20	0°♎		evening max el	11318 Feb 05 21:49	19°♎12'28	26°32'03
evening max el	11317 Feb 23 08:18	5°♎26'07	25°29'07	retrograde	11318 Feb 18 21:55	26°♎32'20	
retrograde	11317 Mar 07 14:27	12°♎30'42		evening set	11318 Feb 25 06:29	24°♎00'04	
evening set	11317 Mar 13 11:57	10°♎04'28		min. Earth dist.	11318 Mar 01 08:50	19°♎48'52	0.66456 AU
asc. node	11317 Mar 14 21:59	8°♎44'42		asc. node	11318 Mar 01 19:18	19°♎17'48	
min. Earth dist.	11317 Mar 17 20:17	5°♎18'59	0.67615 AU	inferior conj	11318 Mar 03 05:09	17°♎35'51	0°27'20
inferior conj	11317 Mar 19 04:41	3°♎34'50	1°19'55	minimum elong	11318 Mar 03 04:26	17°♎38'01	0°27'16
minimum elong	11317 Mar 19 02:56	3°♎40'29	1°19'18	morning rise	11318 Mar 09 03:22	11°♎54'00	
	11317 Mar 22 03:48	30°♋♎		direct	11318 Mar 12 03:28	11°♎03'29	
morning rise	11317 Mar 24 18:22	27°♎42'35		morning max el	11318 Mar 18 15:23	14°♎31'28	18°24'07
direct	11317 Mar 28 05:05	26°♎34'25			11318 Mar 30 02:10	0°♎	
	11317 Apr 03 18:24	0°♎		desc. node	11318 Apr 04 08:07	8°♎14'53	
morning max el	11317 Apr 04 03:26	0°♎21'45	19°08'22	morning set	11318 Apr 07 17:50	13°♎39'17	
greatest brilliancy	11317 Apr 17 04:55	17°♎41'51	-0.7m		11318 Apr 18 02:08	0°♎	
desc. node	11317 Apr 17 11:26	18°♎06'18					
	11317 Apr 25 06:23	0°♎		superior conj	11318 Apr 23 12:22	8°♎29'54	-1°55'08
morning set	11317 Apr 27 17:45	3°♎49'08		minimum elong	11318 Apr 23 03:39	7°♎55'49	1°54'52
max. Earth dist.	11317 May 11 07:50	24°♎58'04	1.45264 AU	max. Earth dist.	11318 Apr 24 02:40	9°♎25'48	1.45704 AU
superior conj	11317 May 14 05:22	29°♎32'01	-2°12'09		11318 May 07 06:05	0°♎	
minimum elong	11317 May 14 02:49	29°♎21'56	2°12'40	evening rise	11318 May 09 09:05	3°♎20'30	
	11317 May 14 12:27	0°♎		greatest brilliancy	11318 May 19 04:55	18°♎44'51	-0.8m
evening rise	11317 May 28 21:14	23°♎09'46			11318 May 26 20:21	0°♎	

asc. node	11318 May 28 17:00	2°☿25'49		minimum elong	11319 Apr 02 16:28	17°♊15'39	1°20'26
evening max el	11318 May 31 19:41	5°☿58'01	18°56'57	max. Earth dist.	11319 Apr 06 22:37	23°♊59'27	1.45401 AU
retrograde	11318 Jun 07 13:58	9°☿42'20			11319 Apr 10 18:48	0°♊	
evening set	11318 Jun 10 23:38	8°☿35'24		evening rise	11319 Apr 19 02:08	12°♊50'34	
inferior conj	11318 Jun 16 12:06	2°☿51'36	3°11'29		11319 Apr 30 08:52	0°♊	
minimum elong	11318 Jun 16 13:07	2°☿48'25	3°10'42	greatest brilliancy	11319 May 03 09:31	4°♊29'05	-0.6m
min. Earth dist.	11318 Jun 18 04:30	0°☿43'50	0.66215 AU	evening max el	11319 May 15 01:33	19°♊41'33	19°47'43
	11318 Jun 18 18:45	30°♋♊		asc. node	11319 May 15 14:09	20°♊12'34	
morning rise	11318 Jun 22 01:56	26°♊29'50		retrograde	11319 May 22 12:01	23°♊55'49	
direct	11318 Jun 28 09:34	23°♊46'44		evening set	11319 May 26 06:43	22°♊32'46	
desc. node	11318 Jul 01 08:25	24°♊17'14		inferior conj	11319 May 31 14:52	16°♊34'55	3°16'17
	11318 Jul 09 19:49	0°☿		minimum elong	11319 May 31 14:44	16°♊35'20	3°15'37
morning max el	11318 Jul 11 08:28	1°☿29'44	26°27'42	min. Earth dist.	11319 Jun 01 16:32	15°♊08'55	0.67510 AU
	11318 Aug 01 17:42	0°♊		morning rise	11319 Jun 05 22:25	10°♊14'20	
morning set	11318 Aug 16 06:49	25°♊03'58		direct	11319 Jun 11 19:29	7°♊38'11	
	11318 Aug 18 20:53	0°♎		desc. node	11319 Jun 18 05:29	10°♊01'42	
max. Earth dist.	11318 Aug 20 06:28	2°♎43'52	1.34617 AU	morning max el	11319 Jun 23 18:30	14°♊48'28	25°09'16
asc. node	11318 Aug 24 16:57	11°♎39'38			11319 Jul 06 04:44	0°☿	
					11319 Jul 25 14:17	0°♊	
superior conj	11318 Aug 25 05:51	12°♎46'01	0°05'15	morning set	11319 Jul 29 17:53	7°♊15'39	
minimum elong	11318 Aug 25 05:34	12°♎44'36	0°04'55	max. Earth dist.	11319 Aug 02 08:13	13°♊49'00	1.36615 AU
behind sun begin	11318 Aug 24 23:56	12°♎15'34					
behind sun end	11318 Aug 25 11:12	13°♎13'40		superior conj	11319 Aug 08 18:24	26°♊08'16	-0°26'43
evening rise	11318 Sep 01 18:32	28°♎31'05		minimum elong	11319 Aug 08 20:07	26°♊16'43	0°26'50
	11318 Sep 02 11:38	0°♊			11319 Aug 10 17:00	0°♎	
	11318 Sep 20 22:34	0°♌		asc. node	11319 Aug 11 13:42	1°♎43'59	
evening max el	11318 Sep 20 20:40	29°♊55'20	20°56'34	evening rise	11319 Aug 16 23:37	12°♎42'30	
desc. node	11318 Sep 27 05:54	4°♌31'55			11319 Aug 26 02:37	0°♊	
retrograde	11318 Oct 02 12:09	5°♌42'00		evening max el	11319 Sep 03 05:25	11°♊01'04	19°41'57
evening set	11318 Oct 04 20:23	5°♌28'57		retrograde	11319 Sep 13 04:31	15°♊58'25	
inferior conj	11318 Oct 13 22:44	1°♌34'07	-4°42'13	desc. node	11319 Sep 14 03:16	15°♊55'53	
minimum elong	11318 Oct 13 12:54	1°♌48'03	4°39'25	evening set	11319 Sep 15 01:23	15°♊48'43	
min. Earth dist.	11318 Oct 14 16:11	1°♌09'21	0.54607 AU	inferior conj	11319 Sep 23 21:38	11°♊45'41	-3°00'00
	11318 Oct 16 18:14	30°♋♊		minimum elong	11319 Sep 23 13:44	11°♊58'00	2°57'04
morning rise	11318 Oct 22 05:36	27°♊39'47		min. Earth dist.	11319 Sep 26 02:01	10°♊24'13	0.55298 AU
direct	11318 Oct 26 07:21	27°♊04'09		morning rise	11319 Oct 02 00:15	7°♊24'57	
	11318 Nov 04 03:30	0°♌		direct	11319 Oct 06 21:45	6°♊32'00	
morning max el	11318 Nov 08 07:21	3°♌19'29	22°58'54	morning max el	11319 Oct 20 18:08	13°♊25'02	24°46'28
asc. node	11318 Nov 20 17:49	19°♌47'38			11319 Nov 02 15:14	0°♌	
	11318 Nov 26 07:21	0°♊		asc. node	11319 Nov 07 14:41	8°♌36'03	
morning set	11318 Dec 01 02:22	9°♊50'26		morning set	11319 Nov 15 14:11	24°♌36'24	
					11319 Nov 18 01:57	0°♊	
superior conj	11318 Dec 08 01:25	24°♊49'12	1°37'41				
minimum elong	11318 Dec 08 02:15	24°♊53'41	1°38'20	superior conj	11319 Nov 22 09:52	9°♊30'57	1°39'07
	11318 Dec 10 11:55	0°♊		minimum elong	11319 Nov 22 09:33	9°♊29'12	1°39'45
max. Earth dist.	11318 Dec 11 05:28	1°♊31'54	1.33587 AU	max. Earth dist.	11319 Nov 24 06:56	13°♊37'05	1.32369 AU
evening rise	11318 Dec 15 22:21	11°♊05'20		evening rise	11319 Nov 29 17:00	25°♊04'47	
desc. node	11318 Dec 24 03:55	26°♊22'36			11319 Dec 02 03:44	0°♊	
	11318 Dec 26 06:38	0°♊		desc. node	11319 Dec 11 00:56	16°♊18'37	
	11319 Jan 16 17:45	0°♋			11319 Dec 19 18:50	0°♊	
evening max el	11319 Jan 19 11:16	2°♋46'24	27°15'11	evening max el	11320 Jan 01 22:50	15°♊54'22	27°31'39
retrograde	11319 Feb 01 23:10	10°♋10'19		retrograde	11320 Jan 15 17:19	23°♊15'01	
evening set	11319 Feb 08 16:54	7°♋37'44		evening set	11320 Jan 22 16:38	20°♊49'17	
min. Earth dist.	11319 Feb 12 14:22	3°♋59'22	0.64936 AU	min. Earth dist.	11320 Jan 26 10:41	17°♊40'34	0.63104 AU
inferior conj	11319 Feb 14 22:20	1°♋25'38	-0°34'46	inferior conj	11320 Jan 29 05:23	14°♊56'13	-1°45'35
minimum elong	11319 Feb 14 23:22	1°♋22'48	0°33'57	minimum elong	11320 Jan 29 08:52	14°♊47'39	1°43'39
	11319 Feb 16 05:58	30°♋♊		asc. node	11320 Feb 03 13:49	10°♊27'43	
asc. node	11319 Feb 16 16:35	29°♊32'24		morning rise	11320 Feb 05 03:21	9°♊43'09	
morning rise	11319 Feb 21 07:27	25°♊56'36		direct	11320 Feb 07 11:23	9°♊17'17	
direct	11319 Feb 23 22:32	25°♊20'15		morning max el	11320 Feb 14 01:16	12°♊39'37	17°46'47
morning max el	11319 Mar 02 07:37	28°♊40'16	17°56'45		11320 Feb 25 22:42	0°♋	
	11319 Mar 03 13:59	0°♋		morning set	11320 Mar 01 05:49	7°♋26'04	
morning set	11319 Mar 19 23:03	24°♋56'02		desc. node	11320 Mar 08 01:25	19°♋10'37	
desc. node	11319 Mar 22 04:46	28°♋38'02					
	11319 Mar 23 00:40	0°♊		superior conj	11320 Mar 13 09:48	28°♋08'25	-0°39'47
				minimum elong	11320 Mar 13 05:42	27°♋51'29	0°39'05
superior conj	11319 Apr 03 00:58	17°♊49'29	-1°21'17		11320 Mar 14 12:55	0°♊	

max. Earth dist.	11320 Mar 19 16:54	8° Υ 21'52	1.44384 AU	behind sun begin	11321 Feb 22 11:27	9° X 02'44	
evening rise	11320 Mar 28 13:38	22° Υ 15'13		behind sun end	11321 Feb 23 03:51	10° X 13'57	
	11320 Apr 02 15:36	0° B		desc. node	11321 Feb 22 22:05	9° X 49'00	
	11320 Apr 23 23:05	0° Π		max. Earth dist.	11321 Mar 02 07:02	22° X 16'19	1.42768 AU
evening max el	11320 Apr 27 01:41	3° Π 25'55	20°52'30		11321 Mar 07 01:41	0° Υ	
asc. node	11320 May 01 11:22	7° Π 03'27		evening rise	11321 Mar 08 10:48	2° Υ 11'12	
retrograde	11320 May 05 10:48	8° Π 19'15			11321 Mar 27 02:36	0° B	
evening set	11320 May 09 15:18	6° Π 40'10		evening max el	11321 Apr 09 20:29	17° B 10'51	22°07'36
inferior conj	11320 May 14 21:48	0° Π 29'56	3°08'57	asc. node	11321 Apr 18 08:37	22° B 42'44	
minimum elong	11320 May 14 20:42	0° Π 33'44	3°08'16	retrograde	11321 Apr 19 08:29	22° B 47'30	
	11320 May 15 06:27	30° R B		evening set	11321 Apr 23 23:38	20° B 53'04	
min. Earth dist.	11320 May 15 09:38	29° B 49'01	0.68335 AU	inferior conj	11321 Apr 29 06:47	14° B 32'43	2°50'59
morning rise	11320 May 20 01:54	24° B 12'55		minimum elong	11321 Apr 29 04:59	14° B 39'02	2°50'12
direct	11320 May 25 10:20	21° B 51'23		min. Earth dist.	11321 Apr 29 05:40	14° B 36'38	0.68700 AU
desc. node	11320 Jun 04 02:27	27° B 12'39		morning rise	11321 May 04 10:10	8° B 20'50	
morning max el	11320 Jun 05 04:21	28° B 16'15	23°40'52	direct	11321 May 09 05:16	6° B 18'33	
	11320 Jun 06 19:53	0° Π		morning max el	11321 May 18 16:18	11° B 51'43	22°11'49
	11320 Jun 28 21:26	0° E		desc. node	11321 May 21 23:20	15° B 26'34	
morning set	11320 Jul 10 08:13	18° E 29'44			11321 Jun 02 01:43	0° Π	
max. Earth dist.	11320 Jul 14 05:44	25° E 13'25	1.38875 AU	morning set	11321 Jun 20 21:13	28° Π 34'23	
	11320 Jul 16 22:10	0° Ω			11321 Jun 21 18:21	0° E	
				max. Earth dist.	11321 Jun 26 04:55	7° E 19'50	1.41151 AU
superior conj	11320 Jul 21 17:45	8° Ω 51'41	-1°00'27	superior conj	11321 Jul 03 23:27	20° E 45'06	-1°32'54
minimum elong	11320 Jul 21 21:55	9° Ω 11'13	1°00'20	minimum elong	11321 Jul 04 05:42	21° E 12'56	1°32'47
asc. node	11320 Jul 28 10:31	21° Ω 43'17			11321 Jul 09 02:10	0° Ω	
evening rise	11320 Jul 30 21:50	26° Ω 32'40		evening rise	11321 Jul 14 09:36	9° Ω 51'19	
	11320 Aug 01 16:33	0° P		asc. node	11321 Jul 15 07:23	11° Ω 32'47	
evening max el	11320 Aug 16 03:07	22° P 53'55	18°48'44		11321 Jul 26 00:09	0° P	
retrograde	11320 Aug 24 13:11	27° P 06'41		evening max el	11321 Jul 30 10:09	5° P 26'14	18°16'34
evening set	11320 Aug 26 11:13	26° P 54'22		retrograde	11321 Aug 06 16:48	9° P 06'49	
desc. node	11320 Aug 31 00:38	24° P 59'24		evening set	11321 Aug 08 21:26	8° P 47'29	
inferior conj	11320 Sep 03 14:55	22° P 33'46	-1°07'27	inferior conj	11321 Aug 16 05:58	4° P 06'35	0°30'17
minimum elong	11320 Sep 03 12:06	22° P 38'53	1°06'29	minimum elong	11321 Aug 16 06:59	4° P 04'26	0°29'32
min. Earth dist.	11320 Sep 06 16:44	20° P 20'57	0.56806 AU	desc. node	11321 Aug 17 21:59	2° P 41'19	
morning rise	11320 Sep 11 09:39	17° P 35'32		min. Earth dist.	11321 Aug 19 14:17	1° P 17'42	0.58859 AU
direct	11320 Sep 17 01:35	16° P 18'07			11321 Aug 21 06:59	30° R Ω	
morning max el	11320 Oct 01 07:58	23° P 41'41	26°21'15	morning rise	11321 Aug 23 13:04	28° Ω 33'17	
	11320 Oct 07 01:16	0° A		direct	11321 Aug 29 19:47	26° Ω 46'41	
asc. node	11320 Oct 24 11:29	27° A 52'51			11321 Sep 07 18:04	0° P	
	11320 Oct 25 13:17	0° M		morning max el	11321 Sep 13 04:34	4° P 32'36	27°27'27
morning set	11320 Oct 30 00:51	9° M 16'00			11321 Oct 01 22:29	0° A	
superior conj	11320 Nov 05 20:56	24° M 17'25	1°34'34	asc. node	11321 Oct 11 08:16	17° A 29'49	
minimum elong	11320 Nov 05 19:38	24° M 10'12	1°35'01	morning set	11321 Oct 14 08:37	23° A 43'51	
max. Earth dist.	11320 Nov 06 13:57	25° M 51'54	1.31629 AU		11321 Oct 17 06:37	0° M	
	11320 Nov 08 10:50	0° J		superior conj	11321 Oct 21 08:41	9° M 02'15	1°24'22
evening rise	11320 Nov 12 19:11	9° J 22'40		minimum elong	11321 Oct 21 06:42	8° M 51'14	1°24'32
	11320 Nov 23 11:38	0° B		max. Earth dist.	11321 Oct 20 23:01	8° M 08'26	1.31379 AU
desc. node	11320 Nov 26 22:02	5° B 46'59		evening rise	11321 Oct 28 02:27	23° M 52'11	
evening max el	11320 Dec 14 06:03	28° B 23'20	27°15'58		11321 Oct 31 00:37	0° J	
	11320 Dec 16 00:59	0° \approx		desc. node	11321 Nov 13 19:14	24° J 36'29	
retrograde	11320 Dec 28 03:39	5° \approx 37'25			11321 Nov 17 13:38	0° B	
evening set	11321 Jan 04 02:30	3° \approx 27'10		evening max el	11321 Nov 26 06:23	10° B 03'11	26°26'04
min. Earth dist.	11321 Jan 07 20:31	0° \approx 41'08	0.61044 AU	retrograde	11321 Dec 10 04:56	17° B 09'28	
	11321 Jan 08 15:53	30° R B		evening set	11321 Dec 16 18:24	15° B 24'15	
inferior conj	11321 Jan 10 23:02	27° B 59'16	-3°02'21	min. Earth dist.	11321 Dec 20 19:59	12° B 48'38	0.58906 AU
minimum elong	11321 Jan 11 05:16	27° B 45'41	2°59'25	inferior conj	11321 Dec 23 23:45	10° B 25'13	-4°18'27
morning rise	11321 Jan 18 10:47	23° B 05'21		minimum elong	11321 Dec 24 07:53	10° B 09'46	4°15'25
asc. node	11321 Jan 20 11:02	22° B 46'29		morning rise	11322 Jan 01 00:08	5° B 52'57	
direct	11321 Jan 20 14:15	22° B 46'25		direct	11322 Jan 03 02:54	5° B 37'27	
morning max el	11321 Jan 27 17:03	26° B 20'55	17°55'02	asc. node	11322 Jan 07 08:10	6° B 42'49	
	11321 Jan 30 20:42	0° \approx		morning max el	11322 Jan 11 03:18	9° B 33'53	18°23'00
morning set	11321 Feb 12 07:47	20° \approx 49'49			11322 Jan 24 10:05	0° \approx	
	11321 Feb 17 08:56	0° X		morning set	11322 Jan 26 23:21	4° \approx 50'39	
superior conj	11321 Feb 22 19:33	9° X 37'57	0°00'50	superior conj	11322 Feb 05 03:40	22° \approx 10'05	0°35'36
minimum elong	11321 Feb 22 19:39	9° X 38'23	0°01'08				

minimum elong	11322 Feb 05 06:05	22°  21'07	0°35'42	minimum elong	11323 Jan 19 08:18	5°  44'50	1°02'56
desc. node	11322 Feb 09 18:50	0°  29'44		max. Earth dist.	11323 Jan 25 22:31	18°  04'45	1.38523 AU
	11322 Feb 09 12:05	0°  1		desc. node	11323 Jan 27 15:36	21°  08'38	
max. Earth dist.	11322 Feb 12 16:13	5°  31'01	1.40735 AU	evening rise	11323 Jan 29 17:02	24°  45'23	
evening rise	11322 Feb 17 03:14	13°  00'30			11323 Feb 01 18:50	0°  1	
	11322 Feb 27 22:22	0°  1			11323 Feb 21 15:06	0°  1	
	11322 Mar 22 12:41	0°  8		evening max el	11323 Mar 06 01:26	14°  1'49'26	24°46'58
evening max el	11322 Mar 23 11:43	0°  8'58'46	23°27'51	retrograde	11323 Mar 17 18:48	21°  1'39'21	
retrograde	11322 Apr 03 03:35	7°  8'16'13		evening set	11323 Mar 23 09:24	19°  1'18'58	
asc. node	11322 Apr 05 05:54	6°  8'55'29		asc. node	11323 Mar 23 03:13	19°  1'31'49	
evening set	11322 Apr 08 06:12	5°  8'07'48		min. Earth dist.	11323 Mar 27 21:47	14°  1'13'11	0.68105 AU
	11322 Apr 12 16:44	30°  R  1		inferior conj	11323 Mar 28 23:12	12°  1'48'58	1°45'47
min. Earth dist.	11322 Apr 13 02:30	29°  1'26'38	0.68618 AU	minimum elong	11323 Mar 28 21:09	12°  1'55'47	1°45'02
inferior conj	11322 Apr 13 15:53	28°  1'40'34	2°23'10	morning rise	11323 Apr 03 09:06	6°  1'51'18	
minimum elong	11322 Apr 13 13:44	28°  1'47'59	2°22'20	direct	11323 Apr 07 02:37	5°  1'31'28	
morning rise	11322 Apr 18 21:14	22°  1'35'03		morning max el	11323 Apr 14 10:21	9°  1'35'31	19°41'05
direct	11322 Apr 23 03:10	20°  1'54'04		desc. node	11323 Apr 25 16:55	24°  1'00'06	
morning max el	11322 May 01 09:34	25°  1'37'50	20°50'08	greatest brilliancy	11323 Apr 27 04:36	26°  1'09'50	-0.6m
	11322 May 05 08:03	0°  8			11323 Apr 29 18:55	0°  8	
desc. node	11322 May 08 20:10	4°  8'26'43		morning set	11323 May 10 08:45	16°  8'02'54	
	11322 May 26 11:43	0°  II			11323 May 19 08:14	0°  II	
morning set	11322 May 31 09:14	7°  II'33'03		max. Earth dist.	11323 May 21 22:43	4°  II'06'27	1.44694 AU
max. Earth dist.	11322 Jun 08 10:12	20°  II'19'08	1.43171 AU				
	11322 Jun 14 07:19	0°  ☿		superior conj	11323 May 26 14:50	11°  II'33'53	-2°12'39
superior conj	11322 Jun 15 07:13	1°  ☿'40'16	-1°59'08	minimum elong	11323 May 26 16:36	11°  II'40'59	2°13'16
minimum elong	11322 Jun 15 13:25	2°  ☿'06'22	1°59'23		11323 Jun 06 19:54	0°  ☿	
evening rise	11322 Jun 27 06:34	22°  ☿'28'08		evening rise	11323 Jun 09 07:45	4°  ☿'11'44	
	11322 Jul 01 12:43	0°  Ω		asc. node	11323 Jun 19 01:18	20°  ☿'23'36	
asc. node	11322 Jul 02 04:19	1°  Ω'08'11			11323 Jun 25 19:34	0°  Ω	
evening max el	11322 Jul 13 22:30	18°  Ω'28'31	18°04'11	evening max el	11323 Jun 27 12:29	1°  Ω'51'04	18°10'35
retrograde	11322 Jul 20 12:51	21°  Ω'51'49		retrograde	11323 Jul 03 21:04	5°  Ω'11'53	
evening set	11322 Jul 23 01:31	21°  Ω'21'49		evening set	11323 Jul 06 17:49	4°  Ω'28'36	
inferior conj	11322 Jul 29 16:53	16°  Ω'21'05	1°43'40		11323 Jul 12 01:18	30°  R  ☿	
minimum elong	11322 Jul 29 19:28	16°  Ω'14'45	1°42'20	inferior conj	11323 Jul 12 19:43	29°  ☿'09'37	2°33'07
min. Earth dist.	11322 Aug 01 20:08	13°  Ω'18'26	0.61136 AU	minimum elong	11323 Jul 12 22:15	29°  ☿'02'39	2°31'55
desc. node	11322 Aug 04 19:17	10°  Ω'49'32		min. Earth dist.	11323 Jul 15 11:09	26°  ☿'15'35	0.63341 AU
morning rise	11322 Aug 05 10:47	10°  Ω'22'32		morning rise	11323 Jul 19 01:01	22°  ☿'56'04	
direct	11322 Aug 12 02:01	8°  Ω'08'45		desc. node	11323 Jul 22 16:31	20°  ☿'53'57	
morning max el	11322 Aug 26 07:55	16°  Ω'07'38	27°56'24	direct	11323 Jul 25 17:42	20°  ☿'22'53	
	11322 Sep 06 17:17	0°  ♍		morning max el	11323 Aug 08 16:12	28°  ☿'25'04	27°47'14
	11322 Sep 24 13:10	0°  ♌			11323 Aug 10 04:49	0°  Ω	
morning set	11322 Sep 28 11:37	7°  ♌'54'57			11323 Aug 31 13:24	0°  ♍	
asc. node	11322 Sep 28 05:02	7°  ♌'21'00		morning set	11323 Sep 12 07:36	21°  ♍'43'27	
max. Earth dist.	11322 Oct 04 06:33	20°  ♌'17'42	1.31628 AU	asc. node	11323 Sep 15 01:48	27°  ♍'21'21	
					11323 Sep 16 08:09	0°  ♌	
superior conj	11322 Oct 05 19:17	23°  ♌'40'03	1°08'44	max. Earth dist.	11323 Sep 17 08:46	2°  ♌'10'11	1.32386 AU
minimum elong	11322 Oct 05 17:02	23°  ♌'27'38	1°08'35				
	11322 Oct 08 15:55	0°  ♍		superior conj	11323 Sep 20 02:48	8°  ♌'05'07	0°47'51
evening rise	11322 Oct 12 12:44	8°  ♍'27'49		minimum elong	11323 Sep 20 00:49	7°  ♌'54'19	0°47'31
	11322 Oct 23 12:28	0°  ♌		evening rise	11323 Sep 27 00:08	23°  ♌'04'09	
desc. node	11322 Oct 31 16:29	12°  ♌'32'03			11323 Sep 30 07:21	0°  ♍	
evening max el	11322 Nov 07 22:39	20°  ♌'52'24	25°05'49	desc. node	11323 Oct 18 13:46	29°  ♍'13'14	
retrograde	11322 Nov 21 18:52	27°  ♌'49'08			11323 Oct 19 07:25	0°  ♌	
evening set	11322 Nov 27 11:41	26°  ♌'35'51		evening max el	11323 Oct 20 09:26	1°  ♌'05'08	23°27'25
min. Earth dist.	11322 Dec 02 10:37	23°  ♌'53'53	0.56936 AU	retrograde	11323 Nov 02 19:47	7°  ♌'46'45	
inferior conj	11322 Dec 05 04:35	22°  ♌'05'18	-5°20'47	evening set	11323 Nov 07 05:01	7°  ♌'04'58	
minimum elong	11322 Dec 05 11:27	21°  ♌'53'57	5°18'57	min. Earth dist.	11323 Nov 13 19:20	3°  ♌'58'15	0.55420 AU
morning rise	11322 Dec 13 13:27	17°  ♌'54'57		inferior conj	11323 Nov 15 13:23	2°  ♌'56'37	-5°48'58
direct	11322 Dec 15 21:34	17°  ♌'39'12		minimum elong	11323 Nov 15 13:51	2°  ♌'55'54	5°48'23
morning max el	11322 Dec 25 04:00	22°  ♌'06'54	19°12'29		11323 Nov 21 03:52	30°  R  ♍	
asc. node	11322 Dec 25 05:17	22°  ♌'10'01		morning rise	11323 Nov 24 00:28	29°  ♍'04'17	
	11322 Dec 31 10:17	0°  ♏		direct	11323 Nov 26 21:15	28°  ♍'44'17	
morning set	11323 Jan 11 00:03	19°  ♏'15'11			11323 Dec 02 06:22	0°  ♏	
	11323 Jan 16 09:42	0°  ♏		morning max el	11323 Dec 07 15:46	3°  ♏'50'47	20°24'49
superior conj	11323 Jan 19 05:18	5°  ♏'30'19	1°02'46	asc. node	11323 Dec 12 02:19	8°  ♏'53'15	
					11323 Dec 24 08:39	0°  ♏	
				morning set	11323 Dec 26 06:44	3°  ♏'54'31	

superior conj	11324 Jan 02 19:55	19° Z 26'28	1°22'03	superior conj	11324 Dec 16 19:43	3° Z 46'58	1°33'56
minimum elong	11324 Jan 02 22:26	19° Z 39'13	1°22'27	minimum elong	11324 Dec 16 21:13	3° Z 54'54	1°34'32
	11324 Jan 08 04:17	0° \approx		max. Earth dist.	11324 Dec 20 19:19	12° Z 01'34	1.34490 AU
max. Earth dist.	11324 Jan 08 06:13	0° \approx 09'15	1.36377 AU	evening rise	11324 Dec 25 03:02	20° Z 33'57	
evening rise	11324 Jan 12 02:10	7° \approx 19'49			11324 Dec 30 05:03	0° \approx	
desc. node	11324 Jan 14 12:26	11° \approx 42'14		desc. node	11324 Dec 31 09:20	2° \approx 05'34	
	11324 Jan 25 13:35	0° X			11325 Jan 18 12:14	0° X	
evening max el	11324 Feb 16 14:56	28° X 39'20	25°57'47	evening max el	11325 Jan 29 04:25	12° X 20'59	26°53'06
	11324 Feb 18 01:10	0° Y		retrograde	11325 Feb 11 09:58	19° X 43'37	
retrograde	11324 Feb 29 05:09	5° Y 50'55		evening set	11325 Feb 17 22:57	17° X 10'07	
evening set	11324 Mar 06 07:36	3° Y 21'38		min. Earth dist.	11325 Feb 21 23:00	13° X 13'28	0.65858 AU
asc. node	11324 Mar 09 00:31	0° Y 40'32		asc. node	11325 Feb 23 21:48	10° X 58'01	
	11324 Mar 09 14:30	30° R X		inferior conj	11325 Feb 24 00:26	10° X 50'22	0°02'09
min. Earth dist.	11324 Mar 10 13:21	28° X 50'54	0.67179 AU	minimum elong	11325 Feb 24 00:22	10° X 50'34	0°02'24
inferior conj	11324 Mar 12 02:47	26° X 53'50	0°58'48	transit middle	11325 Feb 24 00:22	10° X 50'34	0°02'24
minimum elong	11324 Mar 12 01:23	26° X 58'13	0°58'23	transit begin	11325 Feb 23 21:27	10° X 59'04	
morning rise	11324 Mar 17 19:48	21° X 05'45		transit end	11325 Feb 24 03:18	10° X 42'04	
direct	11324 Mar 21 01:56	20° X 05'19		morning rise	11325 Mar 02 03:03	5° X 13'56	
morning max el	11324 Mar 27 18:41	23° X 42'28	18°47'28	direct	11325 Mar 04 23:08	4° X 29'54	
	11324 Apr 02 01:56	0° Y		morning max el	11325 Mar 11 08:51	7° X 52'52	18°10'24
desc. node	11324 Apr 11 13:38	13° Y 57'44			11325 Mar 26 19:38	0° Y	
morning set	11324 Apr 18 18:38	25° Y 09'38		desc. node	11325 Mar 29 10:18	4° Y 12'59	
	11324 Apr 21 21:06	0° Z		morning set	11325 Mar 30 07:02	5° Y 36'39	
max. Earth dist.	11324 May 03 16:29	18° Z 26'00	1.45551 AU				
				superior conj	11325 Apr 14 09:59	29° Y 41'50	-1°42'20
superior conj	11324 May 05 02:54	20° Z 40'47	-2°07'23	minimum elong	11325 Apr 14 00:33	29° Y 04'46	1°41'44
minimum elong	11324 May 04 21:10	20° Z 18'22	2°07'37		11325 Apr 14 14:37	0° Z	
	11324 May 11 00:55	0° II		max. Earth dist.	11325 Apr 16 12:18	2° Z 58'52	1.45664 AU
evening rise	11324 May 20 09:21	14° II 55'42		evening rise	11325 Apr 30 12:05	24° Z 46'00	
greatest brilliancy	11324 May 26 10:30	24° II 39'37	-0.9m		11325 May 03 20:58	0° II	
	11324 May 29 19:07	0° Z		greatest brilliancy	11325 May 12 09:56	13° II 07'10	-0.7m
asc. node	11324 Jun 04 22:21	9° Z 12'06		asc. node	11325 May 22 19:28	27° II 24'49	
evening max el	11324 Jun 10 01:01	15° Z 26'01	18°35'01	evening max el	11325 May 24 09:44	29° II 07'35	19°16'37
retrograde	11324 Jun 16 13:18	18° Z 58'12			11325 May 25 07:34	0° Z	
evening set	11324 Jun 19 18:10	18° Z 00'06		retrograde	11325 May 31 10:08	3° Z 03'45	
inferior conj	11324 Jun 25 10:29	12° Z 24'39	3°02'20	evening set	11325 Jun 03 23:30	1° Z 50'00	
minimum elong	11324 Jun 25 12:08	12° Z 19'38	3°01'25		11325 Jun 06 02:02	30° R II	
min. Earth dist.	11324 Jun 27 11:21	9° Z 56'40	0.65275 AU	inferior conj	11325 Jun 09 09:45	25° II 59'47	3°15'09
morning rise	11324 Jul 01 05:12	6° Z 04'06		minimum elong	11325 Jun 09 10:16	25° II 58'07	3°14'26
direct	11324 Jul 07 17:20	3° Z 21'50		min. Earth dist.	11325 Jun 10 19:44	24° II 09'11	0.66816 AU
desc. node	11324 Jul 08 13:42	3° Z 24'20		morning rise	11325 Jun 14 20:32	19° II 37'54	
morning max el	11324 Jul 21 02:53	11° Z 15'49	27°04'28	direct	11325 Jun 20 23:50	16° II 56'52	
	11324 Aug 04 23:52	0° Z		desc. node	11325 Jun 25 10:46	18° II 06'21	
	11324 Aug 23 02:06	0° Z		morning max el	11325 Jul 03 13:41	24° II 28'19	25°56'14
morning set	11324 Aug 25 17:42	5° Z 01'32			11325 Jul 08 13:03	0° Z	
max. Earth dist.	11324 Aug 30 02:11	13° Z 38'51	1.33662 AU		11325 Jul 29 10:10	0° Z	
asc. node	11324 Aug 31 22:31	17° Z 25'59		morning set	11325 Aug 08 14:28	17° Z 41'08	
				max. Earth dist.	11325 Aug 12 09:13	24° Z 47'46	1.35421 AU
					11325 Aug 15 01:20	0° Z	
superior conj	11324 Sep 03 05:02	22° Z 10'43	0°22'04				
minimum elong	11324 Sep 03 03:56	22° Z 04'53	0°21'40				
	11324 Sep 06 21:18	0° Z		superior conj	11325 Aug 17 23:28	5° Z 51'00	-0°08'00
evening rise	11324 Sep 10 10:44	7° Z 34'59		minimum elong	11325 Aug 17 23:58	5° Z 53'29	0°08'14
	11324 Sep 22 06:28	0° Z		behind sun begin	11325 Aug 17 18:40	5° Z 26'42	
evening max el	11324 Sep 30 22:41	11° Z 12'48	21°48'04	behind sun end	11325 Aug 18 05:15	6° Z 20'19	
desc. node	11324 Oct 04 11:05	14° Z 12'23		asc. node	11325 Aug 18 19:16	7° Z 31'37	
retrograde	11324 Oct 13 10:03	17° Z 25'07		evening rise	11325 Aug 25 18:31	21° Z 55'21	
evening set	11324 Oct 16 09:02	17° Z 05'24			11325 Aug 29 18:28	0° Z	
inferior conj	11324 Oct 25 07:48	13° Z 08'36	-5°23'13	evening max el	11325 Sep 12 23:17	21° Z 51'51	20°22'14
minimum elong	11324 Oct 25 00:12	13° Z 19'14	5°21'33	desc. node	11325 Sep 21 08:25	27° Z 00'48	
min. Earth dist.	11324 Oct 25 02:01	13° Z 16'41	0.54637 AU	retrograde	11325 Sep 23 22:14	27° Z 18'22	
morning rise	11324 Nov 02 16:37	9° Z 21'11		evening set	11325 Sep 25 23:21	27° Z 07'49	
direct	11324 Nov 06 07:01	8° Z 52'53		inferior conj	11325 Oct 05 00:52	23° Z 10'50	-4°02'17
morning max el	11324 Nov 18 13:52	14° Z 42'54	21°58'29	minimum elong	11325 Oct 04 15:05	23° Z 25'09	3°59'04
asc. node	11324 Nov 27 23:17	26° Z 35'23		min. Earth dist.	11325 Oct 06 10:20	22° Z 21'47	0.54785 AU
	11324 Nov 30 01:13	0° Z		morning rise	11325 Oct 13 06:09	19° Z 07'05	
morning set	11324 Dec 09 16:54	18° Z 40'33		direct	11325 Oct 17 16:03	18° Z 25'07	
	11324 Dec 15 00:48	0° Z		morning max el	11325 Oct 31 02:40	24° Z 57'49	23°45'08

	11325 Nov 04 18:35	0°♍			11326 Oct 05 21:08	0°♎	
asc. node	11325 Nov 14 20:11	15°♍02'42		morning max el	11326 Oct 12 13:55	5°♎04'01	25°29'23
	11325 Nov 22 13:16	0°♊			11326 Oct 30 12:11	0°♍	
morning set	11325 Nov 24 04:36	3°♊27'39		asc. node	11326 Nov 01 17:02	4°♍04'08	
				morning set	11326 Nov 08 16:07	18°♍11'14	
					11326 Nov 14 01:38	0°♊	
superior conj	11325 Dec 01 01:44	18°♊23'02	1°39'02				
minimum elong	11325 Dec 01 02:04	18°♊24'52	1°39'43				
max. Earth dist.	11325 Dec 03 16:11	23°♊58'32	1.33005 AU	superior conj	11326 Nov 15 11:34	3°♊07'40	1°37'54
	11325 Dec 06 13:10	0°♋		minimum elong	11326 Nov 15 10:48	3°♊03'28	1°38'28
evening rise	11325 Dec 08 16:07	4°♋19'05		max. Earth dist.	11326 Nov 16 20:11	6°♊07'23	1.31989 AU
desc. node	11325 Dec 18 06:19	22°♋13'16		evening rise	11326 Nov 22 14:19	18°♊27'26	
	11325 Dec 22 22:40	0°♌			11326 Nov 28 09:57	0°♋	
evening max el	11326 Jan 11 17:04	25°♌44'25	27°25'47	desc. node	11326 Dec 05 03:22	11°♋58'38	
	11326 Jan 16 20:50	0°♈			11326 Dec 17 09:12	0°♌	
retrograde	11326 Jan 25 08:32	3°♈08'34		evening max el	11326 Dec 25 03:13	8°♌37'58	27°29'17
evening set	11326 Feb 01 05:12	0°♈37'37		retrograde	11327 Jan 07 23:48	15°♌56'33	
	11326 Feb 02 00:40	30°♈		evening set	11327 Jan 14 23:33	13°♌36'30	
min. Earth dist.	11326 Feb 05 00:48	27°♌12'35	0.64186 AU	min. Earth dist.	11327 Jan 18 17:02	10°♌38'16	0.62237 AU
inferior conj	11326 Feb 07 13:40	24°♌32'33	-1°03'52	inferior conj	11327 Jan 21 15:30	7°♌53'11	-2°17'43
minimum elong	11326 Feb 07 15:39	24°♌27'18	1°02'36	minimum elong	11327 Jan 21 20:09	7°♌42'15	2°15'18
asc. node	11326 Feb 10 19:05	21°♌22'39		morning rise	11327 Jan 28 19:17	2°♌47'43	
morning rise	11326 Feb 14 04:05	19°♌10'10		asc. node	11327 Jan 28 16:19	2°♌50'14	
direct	11326 Feb 16 15:48	18°♌38'53		direct	11327 Jan 31 00:53	2°♌25'19	
morning max el	11326 Feb 23 02:08	21°♌58'51	17°50'21	morning max el	11327 Feb 06 19:26	5°♌52'05	17°47'59
	11326 Mar 01 08:35	0°♈			11327 Feb 22 10:35	0°♈	
morning set	11326 Mar 11 23:50	17°♈26'32		morning set	11327 Feb 22 15:41	0°♈22'33	
desc. node	11326 Mar 16 06:59	24°♈40'30		desc. node	11327 Mar 03 03:40	15°♈16'21	
	11326 Mar 19 11:49	0°♉					
				superior conj	11327 Mar 06 01:34	20°♈13'38	-0°22'06
superior conj	11326 Mar 25 06:03	9°♉23'58	-1°04'02	minimum elong	11327 Mar 05 23:26	20°♈04'38	0°21'34
minimum elong	11326 Mar 24 23:12	8°♉56'22	1°03'10		11327 Mar 11 23:16	0°♉	
max. Earth dist.	11326 Mar 30 07:23	17°♉27'58	1.45044 AU	max. Earth dist.	11327 Mar 12 23:53	1°♉39'42	1.43761 AU
	11326 Apr 07 08:11	0°♊		evening rise	11327 Mar 20 14:52	13°♉43'22	
evening rise	11326 Apr 10 00:46	4°♊08'16			11327 Mar 31 09:10	0°♊	
	11326 Apr 27 08:54	0°♈		evening max el	11327 Apr 20 11:00	26°♊36'37	21°23'29
evening max el	11326 May 07 13:08	12°♈51'19	20°13'47		11327 Apr 24 09:48	0°♈	
asc. node	11326 May 09 16:38	14°♈49'29		asc. node	11327 Apr 26 13:51	1°♈12'15	
retrograde	11326 May 15 08:48	17°♈21'46		retrograde	11327 Apr 29 07:14	1°♈47'57	
evening set	11326 May 19 07:26	15°♈52'05		evening set	11327 May 03 16:07	0°♈02'24	
inferior conj	11326 May 24 14:35	9°♈48'43	3°14'33		11327 May 03 17:18	30°♈	
minimum elong	11326 May 24 14:01	9°♈50'39	3°13'53	inferior conj	11327 May 08 22:41	23°♈47'47	3°02'33
min. Earth dist.	11326 May 25 10:19	8°♈41'30	0.67914 AU	minimum elong	11327 May 08 21:15	23°♈52'48	3°01'49
morning rise	11326 May 29 20:19	3°♈29'09		min. Earth dist.	11327 May 09 05:00	23°♈25'49	0.68553 AU
direct	11326 Jun 04 12:08	0°♈58'18		morning rise	11327 May 14 02:09	17°♈32'44	
desc. node	11326 Jun 12 07:48	4°♈30'32		direct	11327 May 19 05:03	15°♈18'41	
morning max el	11326 Jun 15 23:29	7°♈51'20	24°32'12	morning max el	11327 May 29 09:38	21°♈21'33	23°02'23
	11326 Jul 03 07:11	0°♉		desc. node	11327 May 30 04:46	22°♈10'44	
morning set	11326 Jul 21 17:19	29°♉29'53			11327 Jun 05 20:12	0°♈	
	11326 Jul 22 00:12	0°♈			11327 Jun 26 13:22	0°♉	
max. Earth dist.	11326 Jul 25 07:53	5°♈55'07	1.37556 AU	morning set	11327 Jul 02 21:14	10°♉14'59	
				max. Earth dist.	11327 Jul 07 05:03	17°♉33'40	1.39865 AU
					11327 Jul 14 05:32	0°♈	
superior conj	11326 Aug 01 06:52	18°♈57'35	-0°40'59	superior conj	11327 Jul 14 23:17	1°♈21'09	-1°14'38
minimum elong	11326 Aug 01 09:36	19°♈10'46	0°40'58	minimum elong	11327 Jul 15 04:28	1°♈44'54	1°14'29
asc. node	11326 Aug 05 16:03	27°♈34'07		asc. node	11327 Jul 23 12:53	17°♈29'39	
	11326 Aug 06 21:19	0°♈		evening rise	11327 Jul 24 15:14	19°♈35'50	
evening rise	11326 Aug 09 21:02	5°♈58'13			11327 Jul 30 04:09	0°♈	
	11326 Aug 23 16:24	0°♎		evening max el	11327 Aug 09 16:10	15°♈29'14	18°32'33
evening max el	11326 Aug 26 13:56	3°♎18'11	19°16'42	retrograde	11327 Aug 17 12:56	19°♈26'03	
retrograde	11326 Sep 04 20:24	7°♎55'02		evening set	11327 Aug 19 13:38	19°♈11'08	
evening set	11326 Sep 06 16:36	7°♎44'53		desc. node	11327 Aug 26 03:07	15°♈39'10	
desc. node	11326 Sep 08 05:46	7°♎21'34		inferior conj	11327 Aug 27 09:08	14°♈42'00	-0°23'15
inferior conj	11326 Sep 15 06:39	3°♎35'33	-2°11'38	minimum elong	11327 Aug 27 08:13	14°♈43'46	0°23'08
minimum elong	11326 Sep 15 00:51	3°♎45'08	2°09'25	min. Earth dist.	11327 Aug 30 15:30	12°♈11'30	0.57639 AU
min. Earth dist.	11326 Sep 17 22:17	1°♎50'39	0.55855 AU				
	11326 Sep 21 01:18	30°♈		morning rise	11327 Sep 03 23:19	9°♈28'20	
morning rise	11326 Sep 23 06:23	28°♈59'07		direct	11327 Sep 09 22:27	7°♈58'34	
direct	11326 Sep 28 12:10	27°♈56'14					

morning max el	11327 Sep 24 06:07	15° \mathbb{M} 32'03	26°53'37	direct	11328 Aug 21 21:45	18° Ω 50'14	
	11327 Oct 05 23:47	0° \mathfrak{A}		morning max el	11328 Sep 05 05:50	26° Ω 42'02	27°44'38
asc. node	11327 Oct 19 13:50	23° \mathfrak{A} 30'24			11328 Sep 08 08:50	0° \mathbb{M}	
	11327 Oct 22 18:15	0° \mathbb{M}			11328 Sep 28 13:59	0° \mathfrak{A}	
morning set	11327 Oct 24 01:45	2° \mathbb{M} 46'09		asc. node	11328 Oct 05 10:37	13° \mathfrak{A} 14'34	
				morning set	11328 Oct 07 07:45	17° \mathfrak{A} 07'59	
superior conj	11327 Oct 30 23:07	17° \mathbb{M} 53'58	1°30'56		11328 Oct 13 06:22	0° \mathbb{M}	
minimum elong	11327 Oct 30 21:29	17° \mathbb{M} 44'53	1°31'15	max. Earth dist.	11328 Oct 13 13:42	0° \mathbb{M} 40'39	1.31427 AU
max. Earth dist.	11327 Oct 31 04:34	18° \mathbb{M} 24'21	1.31463 AU				
	11327 Nov 05 10:56	0° \mathfrak{A}		superior conj	11328 Oct 14 10:36	2° \mathbb{M} 36'41	1°18'23
evening rise	11327 Nov 06 18:56	2° \mathfrak{A} 51'12		minimum elong	11328 Oct 14 08:27	2° \mathbb{M} 24'44	1°18'25
	11327 Nov 21 06:27	0° \mathfrak{B}		evening rise	11328 Oct 21 03:45	17° \mathbb{M} 24'25	
desc. node	11327 Nov 22 00:30	1° \mathfrak{B} 11'59			11328 Oct 27 07:06	0° \mathfrak{A}	
evening max el	11327 Dec 07 08:04	20° \mathfrak{B} 47'50	26°59'00	desc. node	11328 Nov 07 21:42	19° \mathfrak{A} 40'52	
retrograde	11327 Dec 21 06:15	27° \mathfrak{B} 57'52			11328 Nov 16 02:54	0° \mathfrak{B}	
evening set	11327 Dec 28 02:17	25° \mathfrak{B} 57'34		evening max el	11328 Nov 18 04:56	2° \mathfrak{B} 05'30	25°55'02
min. Earth dist.	11327 Dec 31 22:29	23° \mathfrak{B} 17'36	0.60129 AU	retrograde	11328 Dec 02 02:33	9° \mathfrak{B} 07'32	
inferior conj	11328 Jan 04 02:24	20° \mathfrak{B} 41'52	-3°35'20	evening set	11328 Dec 08 09:01	7° \mathfrak{B} 35'08	
minimum elong	11328 Jan 04 09:40	20° \mathfrak{B} 26'57	3°32'12	min. Earth dist.	11328 Dec 12 17:34	4° \mathfrak{B} 59'23	0.58039 AU
morning rise	11328 Jan 11 19:46	15° \mathfrak{B} 56'35		inferior conj	11328 Dec 15 18:53	2° \mathfrak{B} 48'59	-4°47'37
direct	11328 Jan 13 22:26	15° \mathfrak{B} 39'26		minimum elong	11328 Dec 16 03:02	2° \mathfrak{B} 34'26	4°44'57
asc. node	11328 Jan 15 13:31	15° \mathfrak{B} 50'02			11328 Dec 20 02:17	30° \mathfrak{R} \mathfrak{A}	
morning max el	11328 Jan 21 09:16	19° \mathfrak{B} 22'12	18°04'25	morning rise	11328 Dec 23 23:35	28° \mathfrak{A} 26'18	
	11328 Jan 29 04:07	0° \approx		direct	11328 Dec 26 03:57	28° \mathfrak{A} 11'03	
morning set	11328 Feb 06 00:04	14° \approx 04'08			11328 Dec 31 19:16	0° \mathfrak{B}	
	11328 Feb 14 15:59	0° \mathfrak{X}		asc. node	11329 Jan 01 10:39	0° \mathfrak{B} 26'24	
				morning max el	11329 Jan 03 15:52	2° \mathfrak{B} 19'10	18°41'20
superior conj	11328 Feb 15 21:19	2° \mathfrak{X} 10'59	0°16'27	morning set	11329 Jan 19 19:54	28° \mathfrak{B} 16'08	
minimum elong	11328 Feb 15 22:38	2° \mathfrak{X} 16'51	0°16'37		11329 Jan 20 17:15	0° \approx	
desc. node	11328 Feb 18 00:23	5° \mathfrak{X} 56'05		superior conj	11329 Jan 28 13:26	15° \approx 05'06	0°48'06
max. Earth dist.	11328 Feb 23 12:18	15° \mathfrak{X} 19'52	1.41946 AU	minimum elong	11329 Jan 28 16:16	15° \approx 18'22	0°48'12
evening rise	11328 Feb 28 19:35	24° \mathfrak{X} 00'53		desc. node	11329 Feb 03 21:08	26° \approx 36'19	
	11328 Mar 03 14:22	0° \mathfrak{Y}		max. Earth dist.	11329 Feb 04 20:10	28° \approx 17'38	1.39803 AU
	11328 Mar 24 08:24	0° \mathfrak{B}			11329 Feb 05 19:40	0° \mathfrak{X}	
evening max el	11328 Apr 02 04:12	10° \mathfrak{B} 23'20	22°41'27	evening rise	11329 Feb 08 21:04	5° \mathfrak{X} 13'25	
retrograde	11328 Apr 12 03:52	16° \mathfrak{B} 17'16			11329 Feb 24 17:23	0° \mathfrak{Y}	
asc. node	11328 Apr 12 11:08	16° \mathfrak{B} 16'49		evening max el	11329 Mar 15 18:25	24° \mathfrak{Y} 11'53	24°02'02
evening set	11328 Apr 16 23:55	14° \mathfrak{B} 16'37			11329 Mar 23 13:00	0° \mathfrak{B}	
inferior conj	11328 Apr 22 07:57	7° \mathfrak{B} 53'08	2°40'21	retrograde	11329 Mar 26 21:25	0° \mathfrak{B} 44'24	
minimum elong	11328 Apr 22 05:57	8° \mathfrak{B} 00'06	2°39'32		11329 Mar 29 23:57	30° \mathfrak{R} \mathfrak{Y}	
min. Earth dist.	11328 Apr 22 01:33	8° \mathfrak{B} 15'23	0.68727 AU	asc. node	11329 Mar 30 08:26	29° \mathfrak{Y} 49'00	
morning rise	11328 Apr 27 11:52	1° \mathfrak{B} 44'02		evening set	11329 Apr 01 05:14	28° \mathfrak{Y} 30'16	
	11328 Apr 30 17:14	30° \mathfrak{R} \mathfrak{Y}		min. Earth dist.	11329 Apr 05 21:52	23° \mathfrak{Y} 04'28	0.68452 AU
direct	11328 May 02 01:24	29° \mathfrak{Y} 50'37		inferior conj	11329 Apr 06 16:30	22° \mathfrak{Y} 01'17	2°08'28
	11328 May 03 10:36	0° \mathfrak{B}		minimum elong	11329 Apr 06 14:19	22° \mathfrak{Y} 08'40	2°07'39
morning max el	11328 May 10 23:28	5° \mathfrak{B} 01'18	21°35'48	morning rise	11329 Apr 11 23:28	15° \mathfrak{Y} 59'12	
desc. node	11328 May 16 01:38	10° \mathfrak{B} 46'11		direct	11329 Apr 15 23:58	14° \mathfrak{Y} 27'30	
	11328 May 30 00:05	0° \mathbb{I}		morning max el	11329 Apr 23 19:54	18° \mathfrak{Y} 52'48	20°19'04
morning set	11328 Jun 11 23:04	19° \mathbb{I} 49'59		desc. node	11329 May 02 22:27	0° \mathfrak{B} 01'42	
	11328 Jun 18 05:53	0° \mathfrak{B}			11329 May 02 21:57	0° \mathfrak{B}	
max. Earth dist.	11328 Jun 18 07:11	0° \mathfrak{B} 05'23	1.42064 AU	morning set	11329 May 22 03:28	28° \mathfrak{B} 30'04	
					11329 May 23 02:44	0° \mathbb{I}	
superior conj	11328 Jun 25 20:13	12° \mathfrak{B} 51'28	-1°45'08	max. Earth dist.	11329 May 31 15:57	13° \mathbb{I} 27'53	1.43888 AU
minimum elong	11328 Jun 26 02:51	13° \mathfrak{B} 20'18	1°45'09				
	11328 Jul 05 10:33	0° Ω		superior conj	11329 Jun 06 17:40	23° \mathbb{I} 19'52	-2°06'50
evening rise	11328 Jul 06 21:20	2° Ω 38'45		minimum elong	11329 Jun 06 22:35	23° \mathbb{I} 40'11	2°07'17
asc. node	11328 Jul 09 09:46	7° Ω 14'10			11329 Jun 10 17:44	0° \mathfrak{B}	
evening max el	11328 Jul 23 01:58	28° Ω 15'55	18°08'53	evening rise	11329 Jun 19 10:32	14° \mathfrak{B} 54'49	
	11328 Jul 25 02:31	0° \mathbb{M}		asc. node	11329 Jun 26 06:43	26° \mathfrak{B} 42'05	
retrograde	11328 Jul 30 00:15	1° \mathbb{M} 47'22			11329 Jun 28 06:30	0° Ω	
evening set	11328 Aug 01 08:19	1° \mathbb{M} 23'48		evening max el	11329 Jul 06 15:21	11° Ω 27'43	18°04'35
	11328 Aug 04 03:09	30° \mathfrak{R} Ω		retrograde	11329 Jul 13 02:12	14° Ω 48'37	
inferior conj	11328 Aug 08 09:06	26° Ω 33'54	1°04'29	evening set	11329 Jul 15 18:11	14° Ω 13'20	
minimum elong	11328 Aug 08 11:02	26° Ω 29'31	1°03'23	inferior conj	11329 Jul 22 03:20	9° Ω 04'28	2°07'23
min. Earth dist.	11328 Aug 11 16:13	23° Ω 36'37	0.59820 AU	minimum elong	11329 Jul 22 06:02	8° Ω 57'27	2°06'03
desc. node	11328 Aug 12 00:27	23° Ω 19'10		min. Earth dist.	11329 Jul 25 02:02	6° Ω 02'56	0.62092 AU
morning rise	11328 Aug 15 10:39	20° Ω 48'39					

morning rise	11329 Jul 28 15:39	2°♎58'02		morning rise	11330 Jul 11 12:14	15°♏48'18	
desc. node	11329 Jul 29 21:44	2°♎09'16		desc. node	11330 Jul 16 18:57	13°♏15'58	
direct	11329 Aug 04 08:06	0°♎34'58		direct	11330 Jul 18 03:38	13°♏09'37	
morning max el	11329 Aug 18 11:51	8°♎37'03	27°57'03	morning max el	11330 Jul 31 21:32	21°♏10'44	27°32'36
	11329 Sep 03 23:21	0°♎			11330 Aug 08 13:03	0°♎	
	11329 Sep 20 18:12	0°♎			11330 Aug 28 02:41	0°♎	
morning set	11329 Sep 21 08:03	1°♎10'31		morning set	11330 Sep 05 00:14	14°♎47'27	
asc. node	11329 Sep 22 07:21	3°♎10'19		asc. node	11330 Sep 09 04:05	23°♎13'13	
max. Earth dist.	11329 Sep 26 19:28	12°♎44'11	1.31889 AU	max. Earth dist.	11330 Sep 09 18:06	24°♎26'06	1.32866 AU
					11330 Sep 12 09:19	0°♎	
superior conj	11329 Sep 28 20:06	17°♎09'39	1°00'30	superior conj	11330 Sep 13 01:40	1°♎27'29	0°37'29
minimum elong	11329 Sep 28 17:53	16°♎57'31	1°00'15	minimum elong	11330 Sep 12 23:58	1°♎18'23	0°37'06
	11329 Oct 04 16:22	0°♎			11330 Sep 20 01:59	16°♎35'24	
evening rise	11329 Oct 05 14:43	2°♎00'48		evening rise	11330 Sep 26 16:12	0°♎	
	11329 Oct 20 14:46	0°♎			11330 Oct 12 04:31	22°♎41'15	22°44'13
desc. node	11329 Oct 25 18:56	7°♎07'40		evening max el	11330 Oct 12 16:14	23°♎09'16	
evening max el	11329 Oct 30 17:52	12°♎35'05	24°25'04	desc. node	11330 Oct 25 07:24	29°♎12'43	
retrograde	11329 Nov 13 11:16	19°♎27'25		retrograde	11330 Oct 29 01:06	28°♎42'13	
evening set	11329 Nov 18 15:49	18°♎27'53		evening set	11330 Nov 05 12:49	25°♎19'17	0.54979 AU
min. Earth dist.	11329 Nov 24 05:04	15°♎37'36	0.56216 AU	min. Earth dist.	11330 Nov 06 16:20	24°♎40'03	-5°45'24
inferior conj	11329 Nov 26 14:49	14°♎07'33	-5°38'16	inferior conj	11330 Nov 06 13:07	24°♎44'39	5°44'40
minimum elong	11329 Nov 26 19:35	14°♎00'05	5°37'08	minimum elong	11330 Nov 15 02:43	20°♎51'40	
morning rise	11329 Dec 05 01:30	10°♎06'12		morning rise	11330 Nov 18 06:26	20°♎28'44	
direct	11329 Dec 07 13:59	9°♎49'17		direct	11330 Nov 29 17:17	25°♎54'14	21°02'24
morning max el	11329 Dec 17 11:27	14°♎32'30	19°40'33	morning max el	11330 Dec 03 11:23	0°♎	
asc. node	11329 Dec 19 07:43	16°♎27'56		asc. node	11330 Dec 06 04:44	3°♎38'18	
	11329 Dec 28 08:48	0°♎		morning set	11330 Dec 19 07:51	27°♎30'35	
morning set	11330 Jan 03 23:27	12°♎47'48			11330 Dec 20 12:32	0°♎	
superior conj	11330 Jan 11 21:06	28°♎42'21	1°11'52	superior conj	11330 Dec 26 16:01	12°♎50'07	1°27'57
minimum elong	11330 Jan 11 24:00	28°♎56'37	1°12'09	minimum elong	11330 Dec 26 18:09	13°♎01'05	1°28'27
	11330 Jan 12 12:53	0°♎			11330 Dec 31 11:17	22°♎31'01	1.35527 AU
max. Earth dist.	11330 Jan 18 02:04	10°♎35'26	1.37581 AU	max. Earth dist.	11331 Jan 04 11:42	0°♎13'11	
evening rise	11330 Jan 21 19:25	17°♎20'20		evening rise	11331 Jan 04 08:53	0°♎	
desc. node	11330 Jan 21 17:55	17°♎13'39		desc. node	11331 Jan 08 14:44	7°♎43'36	
	11330 Jan 29 06:11	0°♎			11331 Jan 22 09:39	0°♎	
	11330 Feb 19 02:43	0°♎			11331 Feb 08 21:16	21°♎50'11	26°23'47
evening max el	11330 Feb 26 07:44	8°♎02'25	25°18'34	evening max el	11331 Feb 21 19:03	29°♎08'13	
retrograde	11330 Mar 10 10:52	15°♎03'52		retrograde	11331 Feb 28 02:03	26°♎36'41	
evening set	11330 Mar 16 06:32	12°♎39'03		evening set	11331 Mar 04 05:18	22°♎20'22	0.66654 AU
asc. node	11330 Mar 17 05:44	11°♎46'08		min. Earth dist.	11331 Mar 04 03:02	22°♎27'06	
min. Earth dist.	11330 Mar 20 15:52	7°♎48'16	0.67751 AU	asc. node	11331 Mar 05 23:47	20°♎11'20	0°35'58
inferior conj	11330 Mar 21 22:27	6°♎09'03	1°27'04	inferior conj	11331 Mar 05 22:52	20°♎14'08	0°35'47
minimum elong	11330 Mar 21 20:36	6°♎15'04	1°26'24	minimum elong	11331 Mar 11 20:34	14°♎27'40	
morning rise	11330 Mar 27 11:04	0°♎15'18		morning rise	11331 Mar 14 22:11	13°♎34'40	
	11330 Mar 27 20:41	30°♎		direct	11331 Mar 21 11:06	17°♎04'41	18°29'37
direct	11330 Mar 30 23:29	29°♎04'13		morning max el	11331 Mar 31 07:01	0°♎	
	11330 Apr 03 06:02	0°♎			11331 Apr 06 15:52	9°♎52'38	
morning max el	11330 Apr 07 00:05	2°♎55'38	19°16'21	desc. node	11331 Apr 11 00:35	16°♎45'51	
desc. node	11330 Apr 19 19:11	19°♎46'41		morning set	11331 Apr 19 10:16	0°♎	
greatest brilliancy	11330 Apr 19 20:22	19°♎51'05	-0.7m				
	11330 Apr 26 13:13	0°♎					
morning set	11330 May 01 04:35	7°♎08'04		superior conj	11331 Apr 26 23:34	11°♎49'30	-1°58'56
max. Earth dist.	11330 May 14 06:33	27°♎29'40	1.45137 AU	minimum elong	11331 Apr 26 15:26	11°♎17'41	1°58'49
	11330 May 15 20:41	0°♎		max. Earth dist.	11331 Apr 27 01:07	11°♎55'34	1.45690 AU
					11331 May 08 13:50	0°♎	
superior conj	11330 May 17 15:53	2°♎50'58	-2°12'57	evening rise	11331 May 12 17:18	6°♎32'38	
minimum elong	11330 May 17 14:31	2°♎45'34	2°13'31	greatest brilliancy	11331 May 21 17:51	20°♎46'48	-0.8m
evening rise	11330 Jun 01 02:04	26°♎13'58			11331 May 27 20:17	0°♎	
	11330 Jun 03 08:44	0°♎			11331 May 31 00:47	4°♎22'18	
asc. node	11330 Jun 13 03:43	15°♎47'36		asc. node	11331 Jun 03 16:17	8°♎35'43	18°50'46
evening max el	11330 Jun 20 05:04	24°♎56'55	18°18'47	evening max el	11331 Jun 10 08:42	12°♎16'22	
retrograde	11330 Jun 26 14:16	28°♎21'05		retrograde	11331 Jun 13 17:08	11°♎11'42	
evening set	11330 Jun 29 14:21	27°♎31'50		evening set	11331 Jun 19 06:31	5°♎30'04	3°09'32
inferior conj	11330 Jul 05 11:45	22°♎05'52	2°47'43	inferior conj	11331 Jun 19 07:41	5°♎26'22	3°08'43
minimum elong	11330 Jul 05 13:58	21°♎59'29	2°46'37	minimum elong	11331 Jun 21 01:06	3°♎16'48	0.65986 AU
min. Earth dist.	11330 Jul 07 21:15	19°♎20'47	0.64206 AU	min. Earth dist.	11331 Jun 23 23:15	30°♎	

morning rise	11331 Jun 24 21:31	29° Π 08'35		inferior conj	11332 Jun 02 08:26	19° Π 11'18	3°16'22
direct	11331 Jul 01 06:29	26° Π 25'22		minimum elong	11332 Jun 02 08:29	19° Π 11'10	3°15'42
desc. node	11331 Jul 03 16:05	26° Π 45'30		min. Earth dist.	11332 Jun 03 12:13	17° Π 38'54	0.67342 AU
	11331 Jul 09 16:13	0° \mathfrak{C}		morning rise	11332 Jun 07 16:45	12° Π 50'21	
morning max el	11331 Jul 14 08:16	4° \mathfrak{C} 11'29	26°37'57	direct	11332 Jun 13 15:28	10° Π 12'49	
	11331 Aug 02 23:23	0° Ω		desc. node	11332 Jun 19 13:09	12° Π 14'27	
morning set	11331 Aug 19 05:11	27° Ω 50'55		morning max el	11332 Jun 25 18:31	17° Π 28'53	25°21'53
	11331 Aug 20 08:17	0° \mathfrak{M}			11332 Jul 06 05:34	0° \mathfrak{C}	
max. Earth dist.	11331 Aug 23 06:53	5° \mathfrak{M} 44'28	1.34354 AU		11332 Jul 25 23:07	0° Ω	
asc. node	11331 Aug 27 00:50	13° \mathfrak{M} 19'17		morning set	11332 Jul 31 18:55	10° Ω 10'18	
				max. Earth dist.	11332 Aug 04 10:05	16° Ω 50'45	1.36293 AU
superior conj	11331 Aug 28 01:00	15° \mathfrak{M} 24'07	0°09'48				
minimum elong	11331 Aug 28 00:29	15° \mathfrak{M} 21'26	0°09'28	superior conj	11332 Aug 10 15:12	28° Ω 51'29	-0°21'42
behind sun begin	11331 Aug 27 19:44	14° \mathfrak{M} 56'53		minimum elong	11332 Aug 10 16:34	28° Ω 58'17	0°21'50
behind sun end	11331 Aug 28 05:13	15° \mathfrak{M} 46'01			11332 Aug 11 04:57	0° \mathfrak{M}	
	11331 Sep 03 23:38	0° \mathfrak{L}		asc. node	11332 Aug 12 21:36	3° \mathfrak{M} 24'14	
evening rise	11331 Sep 04 11:41	1° \mathfrak{L} 03'09		evening rise	11332 Aug 18 17:35	15° \mathfrak{M} 17'28	
	11331 Sep 21 04:14	0° \mathfrak{M}			11332 Aug 26 07:53	0° \mathfrak{L}	
evening max el	11331 Sep 23 22:06	3° \mathfrak{M} 00'39	21°09'23	evening max el	11332 Sep 05 04:43	13° \mathfrak{L} 59'19	19°51'44
desc. node	11331 Sep 29 13:33	7° \mathfrak{M} 17'22		retrograde	11332 Sep 15 09:59	19° \mathfrak{L} 04'22	
retrograde	11331 Oct 05 18:59	8° \mathfrak{M} 54'12		desc. node	11332 Sep 15 10:55	19° \mathfrak{L} 04'21	
evening set	11331 Oct 08 06:36	8° \mathfrak{M} 39'47		evening set	11332 Sep 17 07:31	18° \mathfrak{L} 54'37	
inferior conj	11331 Oct 17 08:30	4° \mathfrak{M} 44'55	-4°54'38	inferior conj	11332 Sep 26 05:30	14° \mathfrak{L} 53'22	-3°16'56
minimum elong	11331 Oct 16 22:59	4° \mathfrak{M} 58'19	4°52'06	minimum elong	11332 Sep 25 20:58	15° \mathfrak{L} 06'26	3°13'51
min. Earth dist.	11331 Oct 17 19:59	4° \mathfrak{M} 28'44	0.54586 AU	min. Earth dist.	11332 Sep 28 05:17	13° \mathfrak{L} 40'20	0.55138 AU
morning rise	11331 Oct 25 15:53	0° \mathfrak{M} 53'09		morning rise	11332 Oct 04 08:55	10° \mathfrak{L} 37'33	
direct	11331 Oct 29 14:46	0° \mathfrak{M} 19'32		direct	11332 Oct 09 03:22	9° \mathfrak{L} 47'47	
morning max el	11331 Nov 11 10:31	6° \mathfrak{M} 28'15	22°42'55	morning max el	11332 Oct 22 21:38	16° \mathfrak{L} 35'34	24°30'49
asc. node	11331 Nov 23 01:40	21° \mathfrak{M} 42'04			11332 Nov 02 17:08	0° \mathfrak{M}	
	11331 Nov 27 17:04	0° \mathfrak{J}		asc. node	11332 Nov 08 22:33	10° \mathfrak{M} 25'30	
morning set	11331 Dec 03 18:57	12° \mathfrak{J} 18'37		morning set	11332 Nov 17 06:50	27° \mathfrak{M} 05'22	
					11332 Nov 18 15:16	0° \mathfrak{J}	
superior conj	11331 Dec 10 18:50	27° \mathfrak{J} 18'52	1°36'53				
minimum elong	11331 Dec 10 19:51	27° \mathfrak{J} 24'17	1°37'32	superior conj	11332 Nov 24 02:45	11° \mathfrak{J} 59'38	1°39'18
	11331 Dec 12 01:10	0° \mathfrak{Z}		minimum elong	11332 Nov 24 02:36	11° \mathfrak{J} 58'49	1°39'56
max. Earth dist.	11331 Dec 14 03:53	4° \mathfrak{Z} 25'43	1.33810 AU	max. Earth dist.	11332 Nov 26 04:19	16° \mathfrak{J} 29'14	1.32521 AU
evening rise	11331 Dec 18 18:17	13° \mathfrak{Z} 42'42		evening rise	11332 Dec 01 11:38	27° \mathfrak{J} 38'51	
desc. node	11331 Dec 26 11:41	28° \mathfrak{Z} 01'41			11332 Dec 02 15:35	0° \mathfrak{Z}	
	11331 Dec 27 14:59	0° \mathfrak{A}		desc. node	11332 Dec 12 08:42	18° \mathfrak{Z} 01'09	
	11332 Jan 17 07:53	0° \mathfrak{H}			11332 Dec 19 20:58	0° \mathfrak{A}	
evening max el	11332 Jan 22 10:51	5° \mathfrak{H} 26'49	27°10'13	evening max el	11333 Jan 03 22:47	18° \mathfrak{A} 39'20	27°31'02
retrograde	11332 Feb 04 21:11	12° \mathfrak{H} 50'18		retrograde	11333 Jan 17 16:29	26° \mathfrak{A} 00'58	
evening set	11332 Feb 11 13:49	10° \mathfrak{H} 17'22		evening set	11333 Jan 24 15:22	23° \mathfrak{A} 33'30	
min. Earth dist.	11332 Feb 15 11:56	6° \mathfrak{H} 34'20	0.65190 AU	min. Earth dist.	11333 Jan 28 09:41	20° \mathfrak{A} 20'52	0.63395 AU
inferior conj	11332 Feb 17 18:14	4° \mathfrak{H} 03'07	-0°24'44	inferior conj	11333 Jan 31 03:00	17° \mathfrak{A} 37'13	-1°34'22
minimum elong	11332 Feb 17 18:56	4° \mathfrak{H} 01'07	0°24'05	minimum elong	11333 Jan 31 06:04	17° \mathfrak{A} 29'30	1°32'36
asc. node	11332 Feb 19 00:19	2° \mathfrak{H} 40'25		asc. node	11333 Feb 04 21:35	13° \mathfrak{A} 26'17	
	11332 Feb 21 19:15	30° \mathfrak{R} \mathfrak{A}		morning rise	11333 Feb 06 22:59	12° \mathfrak{A} 21'42	
morning rise	11332 Feb 24 01:35	28° \mathfrak{A} 32'03		direct	11333 Feb 09 07:54	11° \mathfrak{A} 54'32	
direct	11332 Feb 26 17:58	27° \mathfrak{A} 53'45		morning max el	11333 Feb 15 20:36	15° \mathfrak{A} 15'50	17°47'09
	11332 Mar 02 17:46	0° \mathfrak{H}			11333 Feb 26 06:07	0° \mathfrak{H}	
morning max el	11332 Mar 04 02:53	1° \mathfrak{H} 14'03	17°59'42	morning set	11333 Mar 04 04:54	10° \mathfrak{H} 10'39	
morning set	11332 Mar 22 01:29	27° \mathfrak{H} 49'55		desc. node	11333 Mar 10 09:15	20° \mathfrak{H} 45'44	
	11332 Mar 23 09:09	0° \mathfrak{Y}			11333 Mar 15 22:01	0° \mathfrak{Y}	
desc. node	11332 Mar 23 12:33	0° \mathfrak{Y} 13'55					
				superior conj	11333 Mar 16 15:33	1° \mathfrak{Y} 12'00	-0°46'10
superior conj	11332 Apr 05 10:08	21° \mathfrak{Y} 02'28	-1°27'07	minimum elong	11333 Mar 16 10:43	0° \mathfrak{Y} 52'12	0°45'25
minimum elong	11332 Apr 05 01:12	20° \mathfrak{Y} 27'05	1°26'18	max. Earth dist.	11333 Mar 22 15:59	10° \mathfrak{Y} 55'29	1.44574 AU
max. Earth dist.	11332 Apr 08 21:15	26° \mathfrak{Y} 29'56	1.45494 AU	evening rise	11333 Mar 31 23:48	25° \mathfrak{Y} 29'58	
	11332 Apr 11 02:55	0° \mathfrak{B}			11333 Apr 03 22:28	0° \mathfrak{B}	
evening rise	11332 Apr 21 12:25	16° \mathfrak{B} 06'39			11333 Apr 24 18:28	0° Π	
	11332 Apr 30 14:18	0° Π		evening max el	11333 Apr 29 23:53	6° Π 03'09	20°42'06
greatest brilliancy	11332 May 05 06:30	7° Π 00'02	-0.7m	asc. node	11333 May 03 19:07	9° Π 16'48	
asc. node	11332 May 16 21:55	22° Π 16'15		retrograde	11333 May 08 05:23	10° Π 50'32	
evening max el	11332 May 16 22:55	22° Π 18'46	19°39'15	evening set	11333 May 12 08:20	9° Π 13'49	
retrograde	11332 May 24 06:31	26° Π 27'59		inferior conj	11333 May 17 14:56	3° Π 05'12	3°10'45
evening set	11332 May 27 23:51	25° Π 07'16		minimum elong	11333 May 17 13:58	3° Π 08'33	3°10'05

min. Earth dist.	11333 May 18 04:45	2° Π 17'31	0.68238 AU	asc. node	11334 Apr 20 16:22	25° \mathcal{B} 08'18	
	11333 May 19 21:49	30° \mathcal{R} \mathcal{B}		retrograde	11334 Apr 22 03:21	25° \mathcal{B} 18'33	
morning rise	11333 May 22 19:21	26° \mathcal{B} 47'26		evening set	11334 Apr 26 16:49	23° \mathcal{B} 26'27	
direct	11333 May 28 05:41	24° \mathcal{B} 23'24		inferior conj	11334 May 01 23:45	17° \mathcal{B} 07'28	2°54'20
desc. node	11333 Jun 06 10:10	29° \mathcal{B} 14'11		minimum elong	11334 May 01 22:02	17° \mathcal{B} 13'28	2°53'35
	11333 Jun 07 05:41	0° Π		min. Earth dist.	11334 May 02 00:33	17° \mathcal{B} 04'38	0.68676 AU
morning max el	11333 Jun 08 04:23	0° Π 56'02	23°54'17	morning rise	11334 May 07 03:04	10° \mathcal{B} 54'36	
	11333 Jun 30 03:35	0° \mathcal{E}		direct	11334 May 12 00:10	8° \mathcal{B} 49'09	
morning set	11333 Jul 13 12:40	21° \mathcal{E} 33'52		morning max el	11334 May 21 15:45	14° \mathcal{B} 30'13	22°24'43
max. Earth dist.	11333 Jul 17 07:42	28° \mathcal{E} 09'54	1.38529 AU	desc. node	11334 May 24 07:06	17° \mathcal{B} 20'02	
	11333 Jul 18 08:26	0° \mathcal{O}			11334 Jun 03 04:30	0° Π	
					11334 Jun 23 02:37	0° \mathcal{E}	
superior conj	11333 Jul 24 16:45	11° \mathcal{O} 41'06	-0°55'20	morning set	11334 Jun 24 05:34	1° \mathcal{E} 49'08	
minimum elong	11333 Jul 24 20:33	11° \mathcal{O} 59'01	0°55'15	max. Earth dist.	11334 Jun 29 05:56	10° \mathcal{E} 07'38	1.40823 AU
asc. node	11333 Jul 30 18:24	23° \mathcal{O} 24'32					
evening rise	11333 Aug 02 17:01	29° \mathcal{O} 11'13		superior conj	11334 Jul 07 01:21	23° \mathcal{E} 42'32	-1°28'15
	11333 Aug 03 02:59	0° \mathcal{M}		minimum elong	11334 Jul 07 07:22	24° \mathcal{E} 09'32	1°28'07
evening max el	11333 Aug 19 00:40	25° \mathcal{M} 45'20	18°55'19		11334 Jul 10 12:34	0° \mathcal{O}	
	11333 Aug 26 13:25	0° \mathcal{L}		evening rise	11334 Jul 17 06:33	12° \mathcal{O} 34'55	
retrograde	11333 Aug 27 15:50	0° \mathcal{L} 04'05		asc. node	11334 Jul 17 15:14	13° \mathcal{O} 15'41	
	11333 Aug 28 18:37	30° \mathcal{R} \mathcal{M}			11334 Jul 27 00:45	0° \mathcal{M}	
evening set	11333 Aug 29 13:07	29° \mathcal{M} 52'32		evening max el	11334 Aug 02 06:34	8° \mathcal{M} 12'24	18°20'07
desc. node	11333 Sep 02 08:16	28° \mathcal{M} 26'53		retrograde	11334 Aug 09 16:33	11° \mathcal{M} 56'40	
inferior conj	11333 Sep 06 19:38	25° \mathcal{M} 35'00	-1°24'00	evening set	11334 Aug 11 20:05	11° \mathcal{M} 38'37	
minimum elong	11333 Sep 06 16:04	25° \mathcal{M} 41'20	1°22'42	inferior conj	11334 Aug 19 07:26	7° \mathcal{M} 00'53	0°16'55
min. Earth dist.	11333 Sep 09 19:16	23° \mathcal{M} 28'59	0.56539 AU	minimum elong	11334 Aug 19 08:01	6° \mathcal{M} 59'41	0°16'22
morning rise	11333 Sep 14 15:46	20° \mathcal{M} 42'18		desc. node	11334 Aug 20 05:37	6° \mathcal{M} 14'44	
direct	11333 Sep 20 05:07	19° \mathcal{M} 28'50		min. Earth dist.	11334 Aug 22 15:44	4° \mathcal{M} 15'59	0.58532 AU
morning max el	11333 Oct 04 10:41	26° \mathcal{M} 48'48	26°08'37	morning rise	11334 Aug 26 16:26	1° \mathcal{M} 32'26	
	11333 Oct 07 12:24	0° \mathcal{L}			11334 Aug 30 23:00	30° \mathcal{R} \mathcal{O}	
asc. node	11333 Oct 26 19:25	29° \mathcal{L} 38'34		direct	11334 Sep 01 21:25	29° \mathcal{O} 50'02	
	11333 Oct 26 23:50	0° \mathcal{M}			11334 Sep 03 20:26	0° \mathcal{M}	
morning set	11333 Nov 01 17:46	11° \mathcal{M} 46'08		morning max el	11334 Sep 16 06:03	7° \mathcal{M} 33'13	27°19'52
					11334 Oct 03 03:54	0° \mathcal{L}	
superior conj	11333 Nov 08 13:34	26° \mathcal{M} 45'50	1°35'39	asc. node	11334 Oct 13 16:13	19° \mathcal{L} 13'13	
minimum elong	11333 Nov 08 12:24	26° \mathcal{M} 39'22	1°36'07	morning set	11334 Oct 17 02:05	26° \mathcal{L} 16'18	
max. Earth dist.	11333 Nov 09 10:34	28° \mathcal{M} 42'17	1.31707 AU		11334 Oct 18 19:53	0° \mathcal{M}	
	11333 Nov 10 00:37	0° \mathcal{X}					
evening rise	11333 Nov 15 12:51	11° \mathcal{X} 54'21		superior conj	11334 Oct 24 01:20	11° \mathcal{M} 31'41	1°26'17
	11333 Nov 24 19:47	0° \mathcal{Z}		minimum elong	11334 Oct 23 23:26	11° \mathcal{M} 21'07	1°26'29
desc. node	11333 Nov 29 05:47	7° \mathcal{Z} 34'13		max. Earth dist.	11334 Oct 23 19:32	10° \mathcal{M} 59'22	1.31380 AU
	11333 Dec 16 00:07	0° \approx		evening rise	11334 Oct 30 19:29	26° \mathcal{M} 22'59	
evening max el	11333 Dec 17 06:45	1° \approx 14'46	27°20'29		11334 Nov 01 12:36	0° \mathcal{X}	
retrograde	11333 Dec 31 04:16	8° \approx 30'25		desc. node	11334 Nov 16 02:55	26° \mathcal{X} 30'44	
evening set	11334 Jan 07 03:34	6° \approx 17'17			11334 Nov 18 11:20	0° \mathcal{Z}	
min. Earth dist.	11334 Jan 10 21:13	3° \approx 28'26	0.61354 AU	evening max el	11334 Nov 29 08:24	13° \mathcal{Z} 03'28	26°35'43
inferior conj	11334 Jan 13 22:53	0° \approx 45'07	-2°50'36	retrograde	11334 Dec 13 07:06	20° \mathcal{Z} 10'49	
minimum elong	11334 Jan 14 04:43	0° \approx 32'10	2°47'46	evening set	11334 Dec 19 22:30	18° \mathcal{Z} 21'32	
	11334 Jan 14 19:20	30° \mathcal{R} \mathcal{Z}		min. Earth dist.	11334 Dec 23 22:20	15° \mathcal{Z} 45'11	0.59219 AU
morning rise	11334 Jan 21 08:36	25° \mathcal{Z} 48'16		inferior conj	11334 Dec 27 02:25	13° \mathcal{Z} 18'03	-4°07'26
asc. node	11334 Jan 22 18:50	25° \mathcal{Z} 30'54		minimum elong	11334 Dec 27 10:24	13° \mathcal{Z} 02'33	4°04'19
direct	11334 Jan 23 12:28	25° \mathcal{Z} 28'35		morning rise	11335 Jan 04 01:05	8° \mathcal{Z} 42'15	
morning max el	11334 Jan 30 12:55	29° \mathcal{Z} 00'50	17°52'38	direct	11335 Jan 06 03:35	8° \mathcal{Z} 26'28	
	11334 Jan 31 11:43	0° \approx		asc. node	11335 Jan 09 16:01	9° \mathcal{Z} 12'59	
morning set	11334 Feb 15 04:28	23° \approx 27'56		morning max el	11335 Jan 14 00:15	12° \mathcal{Z} 19'14	18°17'28
	11334 Feb 18 19:12	0° \mathcal{X}			11335 Jan 25 19:28	0° \approx	
desc. node	11334 Feb 25 05:56	11° \mathcal{X} 23'45		morning set	11335 Jan 29 18:18	7° \approx 24'40	
superior conj	11334 Feb 25 21:42	12° \mathcal{X} 31'47	-0°05'04	superior conj	11335 Feb 08 02:46	24° \approx 55'40	0°30'47
minimum elong	11334 Feb 25 21:16	12° \mathcal{X} 29'56	0°04'44	minimum elong	11335 Feb 08 04:56	25° \approx 05'34	0°30'53
behind sun begin	11334 Feb 25 13:13	11° \mathcal{X} 55'10			11335 Feb 10 22:27	0° \mathcal{X}	
behind sun end	11334 Feb 26 05:19	13° \mathcal{X} 04'38		desc. node	11335 Feb 12 02:39	2° \mathcal{X} 04'34	
max. Earth dist.	11334 Mar 05 06:36	24° \mathcal{X} 54'24	1.43037 AU	max. Earth dist.	11335 Feb 15 16:32	8° \mathcal{X} 15'59	1.41059 AU
	11334 Mar 08 10:06	0° \mathcal{Y}		evening rise	11335 Feb 20 08:08	16° \mathcal{X} 01'23	
evening rise	11334 Mar 11 18:48	5° \mathcal{Y} 19'57			11335 Mar 01 04:49	0° \mathcal{Y}	
	11334 Mar 28 06:00	0° \mathcal{B}			11335 Mar 23 02:39	0° \mathcal{B}	
evening max el	11334 Apr 12 19:24	19° \mathcal{B} 48'15	21°55'56	evening max el	11335 Mar 26 11:08	3° \mathcal{B} 36'17	23°15'46

retrograde	11335 Apr 05 22:52	9°8'47.42		evening max el	11336 Mar 08 00:58	17°9'26.42	24°35'28
asc. node	11335 Apr 07 13:39	9°8'35.20		retrograde	11336 Mar 19 14:39	24°9'12.08	
evening set	11335 Apr 10 23:44	7°8'41.21		asc. node	11336 Mar 24 10:58	22°9'26.21	
inferior conj	11335 Apr 16 08:57	1°8'15.01	2°28'01	evening set	11336 Mar 25 03:31	21°9'53.16	
minimum elong	11335 Apr 16 06:49	1°8'22.22	2°27'11	min. Earth dist.	11336 Mar 29 16:59	16°9'42.21	0.68214 AU
min. Earth dist.	11335 Apr 15 21:23	1°8'54.56	0.68665 AU	inferior conj	11336 Mar 30 16:38	15°9'23.29	1°52'07
	11335 Apr 17 06:49	30°8'9		minimum elong	11336 Mar 30 14:32	15°9'30.31	1°51'18
morning rise	11335 Apr 21 13:50	25°9'08.28		morning rise	11336 Apr 05 01:41	9°9'24.41	
direct	11335 Apr 25 21:45	23°9'24.09		direct	11336 Apr 08 21:01	8°9'01.45	
morning max el	11335 May 04 07:58	28°9'14.32	21°01'30	morning max el	11336 Apr 16 07:35	12°9'10.43	19°50'26
	11335 May 06 00:14	0°8		desc. node	11336 Apr 27 00:43	25°9'43.22	
desc. node	11335 May 11 03:57	6°8'14.17		greatest brilliancy	11336 Apr 29 11:12	29°9'14.46	-0.6m
	11335 May 27 18:17	0°II			11336 Apr 29 23:34	0°8	
morning set	11335 Jun 03 20:49	10°II'56.08		morning set	11336 May 12 20:56	19°8'27.03	
max. Earth dist.	11335 Jun 11 10:17	22°II'59.45	1.42903 AU		11336 May 19 16:05	0°II	
	11335 Jun 15 16:21	0°III		max. Earth dist.	11336 May 23 22:07	6°II'42.18	1.44508 AU
superior conj	11335 Jun 18 12:35	4°III'46.58	-1°55'50	superior conj	11336 May 28 23:46	14°II'49.50	-2°11'42
minimum elong	11335 Jun 18 19:02	5°III'14.18	1°56'00	minimum elong	11336 May 29 02:31	15°II'00.57	2°12'17
evening rise	11335 Jun 30 05:59	25°III'18.36			11336 Jun 07 04:25	0°III	
	11335 Jul 02 21:00	0°II		evening rise	11336 Jun 11 10:29	7°III'11.31	
asc. node	11335 Jul 04 12:07	2°II'53.25		asc. node	11336 Jun 20 09:05	22°III'12.38	
evening max el	11335 Jul 16 18:21	21°II'10.48	18°04'48		11336 Jun 25 13:04	0°II	
retrograde	11335 Jul 23 10:20	24°II'35.36		evening max el	11336 Jun 29 08:18	4°II'31.16	18°08'24
evening set	11335 Jul 25 21:51	24°II'07.18		retrograde	11336 Jul 05 17:08	7°II'51.39	
inferior conj	11335 Aug 01 15:33	19°II'09.20	1°34'10	evening set	11336 Jul 08 12:39	7°II'10.28	
minimum elong	11335 Aug 01 18:01	19°II'03.24	1°32'52	inferior conj	11336 Jul 14 16:18	1°II'53.55	2°27'02
min. Earth dist.	11335 Aug 04 20:04	16°II'07.23	0.60796 AU	minimum elong	11336 Jul 14 18:54	1°II'46.50	2°25'46
desc. node	11335 Aug 07 02:56	14°II'11.42			11336 Jul 16 10:06	30°R'III	
morning rise	11335 Aug 08 11:26	13°II'14.01		min. Earth dist.	11336 Jul 17 09:39	28°III'57.27	0.63026 AU
direct	11335 Aug 15 01:53	11°II'04.00		morning rise	11336 Jul 20 23:22	25°III'41.56	
morning max el	11335 Aug 29 08:23	19°II'01.09	27°54'40	desc. node	11336 Jul 24 00:11	23°III'55.39	
	11335 Sep 07 15:28	0°III		direct	11336 Jul 27 16:10	23°III'11.12	
	11335 Sep 25 23:48	0°II			11336 Aug 09 10:01	0°II	
asc. node	11335 Sep 30 12:56	9°II'02.34		morning max el	11336 Aug 10 16:10	1°II'13.26	27°50'56
morning set	11335 Oct 01 05:52	10°II'30.03			11336 Aug 31 20:09	0°III	
max. Earth dist.	11335 Oct 07 03:33	23°II'10.35	1.31555 AU	morning set	11336 Sep 14 03:01	24°III'22.18	
superior conj	11335 Oct 08 12:10	26°II'10.45	1°11'27	asc. node	11336 Sep 16 09:39	29°III'01.45	
minimum elong	11335 Oct 08 09:56	25°II'58.21	1°11'22		11336 Sep 16 20:51	0°II	
	11335 Oct 10 05:31	0°III		max. Earth dist.	11336 Sep 19 06:51	5°II'06.25	1.32242 AU
evening rise	11335 Oct 15 05:24	10°III'58.04		superior conj	11336 Sep 21 20:15	10°II'37.54	0°51'20
	11335 Oct 24 19:02	0°II		minimum elong	11336 Sep 21 18:10	10°II'26.38	0°51'02
desc. node	11335 Nov 03 00:07	14°II'35.41		evening rise	11336 Sep 28 16:44	25°II'34.33	
evening max el	11335 Nov 11 01:54	24°II'00.09	25°19'26		11336 Sep 30 18:49	0°III	
	11335 Nov 19 22:09	0°III			11336 Oct 18 14:41	0°II	
retrograde	11335 Nov 24 22:35	0°III'58.07		desc. node	11336 Oct 19 21:23	1°II'29.25	
	11335 Nov 29 23:25	30°R'II		evening max el	11336 Oct 22 12:54	4°II'15.38	23°42'31
evening set	11335 Nov 30 19:22	29°II'39.51		retrograde	11336 Nov 05 01:20	11°II'00.26	
min. Earth dist.	11335 Dec 05 14:02	27°II'00.10	0.57210 AU	evening set	11336 Nov 09 15:54	10°II'14.13	
inferior conj	11335 Dec 08 10:19	25°II'05.33	-5°12'59	min. Earth dist.	11336 Nov 15 23:09	7°II'12.24	0.55605 AU
minimum elong	11335 Dec 08 17:42	24°II'53.08	5°10'55	inferior conj	11336 Nov 17 21:46	6°II'03.07	-5°47'52
morning rise	11335 Dec 16 18:19	20°II'51.59		minimum elong	11336 Nov 17 23:30	6°II'00.32	5°47'12
direct	11335 Dec 19 01:14	20°II'36.28		morning rise	11336 Nov 26 08:57	2°II'08.54	
asc. node	11335 Dec 27 13:08	24°II'27.21		direct	11336 Nov 29 03:26	1°II'49.50	
morning max el	11335 Dec 28 02:33	24°II'58.47	19°03'36	morning max el	11336 Dec 09 16:20	6°II'49.57	20°12'40
	11336 Jan 01 09:01	0°III		asc. node	11336 Dec 13 10:11	10°II'59.50	
morning set	11336 Jan 13 17:51	21°III'46.29			11336 Dec 24 19:29	0°III	
	11336 Jan 17 21:32	0°III		morning set	11336 Dec 27 23:47	6°III'23.52	
superior conj	11336 Jan 22 02:02	8°III'09.34	0°59'07	superior conj	11337 Jan 04 14:58	22°III'01.00	1°19'35
minimum elong	11336 Jan 22 05:02	8°III'23.55	0°59'17	minimum elong	11337 Jan 04 17:36	22°III'14.16	1°19'58
max. Earth dist.	11336 Jan 28 23:16	20°III'56.29	1.38861 AU		11337 Jan 08 16:00	0°III	
desc. node	11336 Jan 29 23:23	22°III'43.56		max. Earth dist.	11337 Jan 10 06:22	3°III'03.50	1.36682 AU
evening rise	11336 Feb 01 18:46	27°III'38.10		evening rise	11337 Jan 14 01:11	10°III'05.25	
	11336 Feb 03 03:59	0°III		desc. node	11337 Jan 15 20:10	13°III'18.22	
	11336 Feb 22 16:56	0°II			11337 Jan 25 20:02	0°III	

	11337 Feb 17 07:48	0°♿				11338 Jan 19 12:08	0°♿	
evening max el	11337 Feb 18 14:20	1°♿16'41	25°48'00	evening max el	11338 Feb 01 03:49	15°♿00'26	26°46'12	
retrograde	11337 Mar 03 01:47	8°♿26'01		retrograde	11338 Feb 14 07:39	22°♿22'32		
evening set	11337 Mar 09 02:34	5°♿57'38		evening set	11338 Feb 20 19:07	19°♿49'17		
asc. node	11337 Mar 11 08:17	3°♿46'42		min. Earth dist.	11338 Feb 24 19:55	15°♿47'38	0.66074 AU	
min. Earth dist.	11337 Mar 13 09:11	1°♿21'51	0.67343 AU	asc. node	11338 Feb 26 05:36	14°♿09'05		
	11337 Mar 14 11:08	30°♿		inferior conj	11338 Feb 26 19:36	13°♿27'46	0°11'24	
inferior conj	11337 Mar 14 20:53	29°♿29'06	1°06'35	minimum elong	11338 Feb 26 19:17	13°♿28'42	0°11'32	
minimum elong	11337 Mar 14 19:20	29°♿33'58	1°06'05	transit middle	11338 Feb 26 19:17	13°♿28'42	0°11'32	
morning rise	11337 Mar 20 12:41	23°♿39'36		transit begin	11338 Feb 26 17:15	13°♿34'43		
direct	11337 Mar 23 20:24	22°♿36'32		transit end	11338 Feb 26 21:20	13°♿22'42		
morning max el	11337 Mar 30 14:55	26°♿16'52	18°54'25	morning rise	11338 Mar 04 20:38	7°♿49'26		
	11337 Apr 02 22:43	0°♿		direct	11338 Mar 07 18:04	7°♿03'15		
greatest brilliancy	11337 Apr 13 10:25	14°♿55'49	-0.8m	morning max el	11338 Mar 14 04:26	10°♿27'47	18°14'51	
desc. node	11337 Apr 13 21:26	15°♿37'49			11338 Mar 28 02:26	0°♿		
morning set	11337 Apr 22 03:53	28°♿24'34		desc. node	11338 Mar 31 18:07	5°♿51'02		
	11337 Apr 23 04:27	0°♿		morning set	11338 Apr 02 11:58	8°♿38'57		
max. Earth dist.	11337 May 06 15:13	20°♿58'02	1.45466 AU		11338 Apr 15 22:34	0°♿		
superior conj	11337 May 08 14:01	24°♿01'40	-2°09'30	superior conj	11338 Apr 17 20:45	3°♿01'01	-1°47'13	
minimum elong	11337 May 08 09:22	23°♿43'24	2°09'52	minimum elong	11338 Apr 17 11:25	2°♿24'27	1°46'43	
	11337 May 12 08:54	0°♿		max. Earth dist.	11338 Apr 19 10:42	5°♿29'29	1.45695 AU	
evening rise	11337 May 23 15:44	18°♿04'38		evening rise	11338 May 03 21:31	28°♿01'47		
	11337 May 31 00:39	0°♿			11338 May 05 03:49	0°♿		
asc. node	11337 Jun 07 06:07	11°♿06'00		greatest brilliancy	11338 May 15 02:29	15°♿23'56	-0.8m	
evening max el	11337 Jun 12 21:12	18°♿04'55	18°30'14	asc. node	11338 May 25 03:14	29°♿25'03		
retrograde	11337 Jun 19 08:28	21°♿34'46			11338 May 25 15:16	0°♿		
evening set	11337 Jun 22 12:03	20°♿39'01		evening max el	11338 May 27 06:39	1°♿45'58	19°09'24	
inferior conj	11337 Jun 28 05:34	15°♿05'54	2°59'01	retrograde	11338 Jun 03 04:48	5°♿37'49		
minimum elong	11337 Jun 28 07:22	15°♿00'28	2°58'03	evening set	11338 Jun 06 16:50	4°♿26'31		
min. Earth dist.	11337 Jun 30 08:41	12°♿33'05	0.65008 AU		11338 Jun 11 02:16	30°♿		
morning rise	11337 Jul 04 01:41	8°♿45'49		inferior conj	11338 Jun 12 03:48	28°♿38'31	3°14'04	
direct	11337 Jul 10 14:43	6°♿04'12		minimum elong	11338 Jun 12 04:29	28°♿36'17	3°13'20	
desc. node	11337 Jul 10 21:23	6°♿04'28		min. Earth dist.	11338 Jun 13 16:01	26°♿41'41	0.66616 AU	
morning max el	11337 Jul 24 02:47	14°♿00'40	27°12'39	morning rise	11338 Jun 17 15:35	22°♿16'31		
	11337 Aug 06 01:44	0°♿		direct	11338 Jun 23 20:28	19°♿34'32		
	11337 Aug 24 12:16	0°♿		desc. node	11338 Jun 27 18:31	20°♿28'21		
morning set	11337 Aug 28 14:49	7°♿45'41		morning max el	11338 Jul 06 13:40	27°♿10'34	26°07'32	
max. Earth dist.	11337 Sep 02 01:46	16°♿38'54	1.33441 AU		11338 Jul 09 05:05	0°♿		
asc. node	11337 Sep 03 06:22	19°♿06'01			11338 Jul 30 17:19	0°♿		
				morning set	11338 Aug 11 13:50	20°♿31'46		
superior conj	11337 Sep 05 23:25	24°♿46'51	0°26'16	max. Earth dist.	11338 Aug 15 10:07	27°♿49'01	1.35131 AU	
minimum elong	11337 Sep 05 22:08	24°♿40'03	0°25'53		11338 Aug 16 13:01	0°♿		
	11337 Sep 08 10:11	0°♿						
evening rise	11337 Sep 13 03:35	10°♿06'31		superior conj	11338 Aug 20 19:14	8°♿31'30	-0°03'12	
	11337 Sep 23 09:28	0°♿		minimum elong	11338 Aug 20 19:26	8°♿32'32	0°03'29	
evening max el	11337 Oct 04 01:04	14°♿21'13	22°02'11	behind sun begin	11338 Aug 20 13:31	8°♿02'27		
desc. node	11337 Oct 06 18:42	16°♿45'47		behind sun end	11338 Aug 21 01:20	9°♿02'40		
retrograde	11337 Oct 16 17:02	20°♿39'18		asc. node	11338 Aug 21 03:07	9°♿11'46		
evening set	11337 Oct 19 20:29	20°♿17'14		evening rise	11338 Aug 28 11:57	24°♿28'49		
min. Earth dist.	11337 Oct 28 05:58	16°♿35'35	0.54695 AU		11338 Aug 31 04:44	0°♿		
inferior conj	11337 Oct 28 17:35	16°♿19'17	-5°30'58	evening max el	11338 Sep 15 23:46	24°♿54'39	20°33'49	
minimum elong	11337 Oct 28 10:58	16°♿28'34	5°29'36	desc. node	11338 Sep 23 16:04	29°♿55'56		
morning rise	11337 Nov 06 02:51	12°♿32'17			11338 Sep 23 21:30	0°♿		
direct	11337 Nov 09 14:20	12°♿05'34		retrograde	11338 Sep 27 04:41	0°♿28'19		
morning max el	11337 Nov 21 16:22	17°♿49'20	21°43'33	evening set	11338 Sep 29 07:51	0°♿17'06		
asc. node	11337 Nov 30 07:09	28°♿33'54			11338 Sep 30 14:50	30°♿		
	11337 Dec 01 05:04	0°♿		inferior conj	11338 Oct 08 09:59	26°♿21'11	-4°17'13	
morning set	11337 Dec 12 09:34	21°♿09'14		minimum elong	11338 Oct 08 00:01	26°♿35'35	4°14'06	
	11337 Dec 16 13:53	0°♿		min. Earth dist.	11338 Oct 09 14:04	25°♿40'33	0.54702 AU	
				morning rise	11338 Oct 16 15:48	22°♿21'02		
superior conj	11337 Dec 19 13:37	6°♿18'36	1°32'35	direct	11338 Oct 20 22:52	21°♿41'23		
minimum elong	11337 Dec 19 15:18	6°♿27'23	1°33'09	morning max el	11338 Nov 03 06:05	28°♿08'21	23°29'00	
max. Earth dist.	11337 Dec 23 18:18	14°♿56'03	1.34741 AU		11338 Nov 05 02:51	0°♿		
evening rise	11337 Dec 27 23:56	23°♿14'21		asc. node	11338 Nov 17 04:03	16°♿55'22		
	11337 Dec 31 15:04	0°♿			11338 Nov 24 00:59	0°♿		
desc. node	11338 Jan 02 17:04	3°♿43'39		morning set	11338 Nov 26 21:10	5°♿56'31		

superior conj	11338 Dec 03 18:52	20° ♄ 52'54	1°38'41	superior conj	11339 Nov 18 04:17	5° ♄ 36'53	1°38'28
minimum elong	11338 Dec 03 19:23	20° ♄ 55'41	1°39'20	minimum elong	11339 Nov 18 03:41	5° ♄ 33'32	1°39'03
max. Earth dist.	11338 Dec 06 13:57	26° ♄ 51'34	1.33195 AU	max. Earth dist.	11339 Nov 19 17:11	8° ♄ 59'34	1.32114 AU
	11338 Dec 08 01:52	0° ♄		evening rise	11339 Nov 25 08:30	21° ♄ 01'20	
evening rise	11338 Dec 11 11:26	6° ♄ 55'39			11339 Nov 29 20:25	0° ♄	
desc. node	11338 Dec 20 14:01	23° ♄ 54'09		desc. node	11339 Dec 07 11:04	13° ♄ 43'31	
	11338 Dec 24 04:55	0° ♄			11339 Dec 18 05:30	0° ♄	
evening max el	11339 Jan 14 16:48	28° ♄ 27'43	27°22'44	evening max el	11339 Dec 28 03:35	11° ♄ 26'43	27°30'48
	11339 Jan 16 09:03	0° ♄		retrograde	11340 Jan 10 23:30	18° ♄ 45'54	
retrograde	11339 Jan 28 07:14	5° ♄ 52'09		evening set	11340 Jan 17 23:11	16° ♄ 23'47	
evening set	11339 Feb 04 02:55	3° ♄ 20'32		min. Earth dist.	11340 Jan 21 16:50	13° ♄ 21'58	0.62545 AU
	11339 Feb 07 19:35	30° ♄		inferior conj	11340 Jan 24 14:01	10° ♄ 36'56	-2°06'09
min. Earth dist.	11339 Feb 07 23:07	29° ♄ 50'53	0.64451 AU	minimum elong	11340 Jan 24 18:14	10° ♄ 26'49	2°03'53
inferior conj	11339 Feb 10 10:18	27° ♄ 12'46	-0°53'17	asc. node	11340 Jan 31 00:08	5° ♄ 43'44	
minimum elong	11339 Feb 10 11:56	27° ♄ 08'23	0°52'10	morning rise	11340 Jan 31 15:44	5° ♄ 28'38	
asc. node	11339 Feb 13 02:54	24° ♄ 28'44		direct	11340 Feb 02 22:08	5° ♄ 05'04	
morning rise	11339 Feb 16 22:49	21° ♄ 47'59		morning max el	11340 Feb 09 14:53	8° ♄ 30'07	17°47'11
direct	11339 Feb 19 11:39	21° ♄ 15'02			11340 Feb 23 19:37	0° ♄	
morning max el	11339 Feb 25 21:26	24° ♄ 34'53	17°52'14	morning set	11340 Feb 25 13:38	3° ♄ 04'50	
	11339 Mar 02 09:09	0° ♄		desc. node	11340 Mar 04 11:29	16° ♄ 51'41	
morning set	11339 Mar 15 00:51	20° ♄ 17'41					
desc. node	11339 Mar 18 14:48	26° ♄ 17'03		superior conj	11340 Mar 08 05:42	23° ♄ 13'22	-0°28'20
	11339 Mar 20 20:32	0° ♄		minimum elong	11340 Mar 08 02:53	23° ♄ 01'36	0°27'46
					11340 Mar 12 08:06	0° ♄	
superior conj	11339 Mar 28 13:59	12° ♄ 34'50	-1°10'18	max. Earth dist.	11340 Mar 14 23:17	4° ♄ 16'04	1.43993 AU
minimum elong	11339 Mar 28 06:29	12° ♄ 04'45	1°09'25	evening rise	11340 Mar 23 00:20	16° ♄ 56'44	
max. Earth dist.	11339 Apr 02 06:02	20° ♄ 00'09	1.45185 AU		11340 Mar 31 14:50	0° ♄	
	11339 Apr 08 15:38	0° ♄		evening max el	11340 Apr 22 09:38	29° ♄ 14'54	21°12'26
evening rise	11339 Apr 13 11:26	7° ♄ 26'05			11340 Apr 23 03:59	0° ♄	
	11339 Apr 28 11:41	0° ♄		asc. node	11340 Apr 27 21:39	3° ♄ 31'16	
greatest brilliancy	11339 Apr 28 12:04	0° ♄ 01'25	-0.6m	retrograde	11340 May 01 01:50	4° ♄ 19'41	
evening max el	11339 May 10 10:58	15° ♄ 29'51	20°04'23	evening set	11340 May 05 09:12	2° ♄ 36'21	
asc. node	11339 May 12 00:25	16° ♄ 58'04			11340 May 07 22:23	30° ♄	
retrograde	11339 May 18 03:17	19° ♄ 54'23		inferior conj	11340 May 10 15:42	26° ♄ 23'16	3°05'01
evening set	11339 May 22 00:31	18° ♄ 27'03		minimum elong	11340 May 10 14:23	26° ♄ 27'51	3°04'19
inferior conj	11339 May 27 07:59	12° ♄ 25'40	3°15'21	min. Earth dist.	11340 May 10 23:56	25° ♄ 54'41	0.68490 AU
minimum elong	11339 May 27 07:34	12° ♄ 27'04	3°14'42	morning rise	11340 May 15 19:21	20° ♄ 07'33	
min. Earth dist.	11339 May 28 05:48	11° ♄ 11'43	0.67786 AU	direct	11340 May 21 00:13	17° ♄ 50'48	
morning rise	11339 Jun 01 14:18	6° ♄ 05'40		morning max el	11340 May 31 09:27	24° ♄ 01'16	23°15'46
direct	11339 Jun 07 08:00	3° ♄ 32'46		desc. node	11340 May 31 12:33	24° ♄ 09'07	
desc. node	11339 Jun 14 15:34	6° ♄ 38'57			11340 Jun 05 17:05	0° ♄	
morning max el	11339 Jun 18 23:29	10° ♄ 32'03	24°45'15		11340 Jun 26 20:28	0° ♄	
	11339 Jul 04 10:42	0° ♄		morning set	11340 Jul 05 03:20	13° ♄ 24'14	
	11339 Jul 23 09:39	0° ♄		max. Earth dist.	11340 Jul 09 06:56	20° ♄ 28'13	1.39522 AU
morning set	11339 Jul 24 19:42	2° ♄ 29'00			11340 Jul 14 15:53	0° ♄	
max. Earth dist.	11339 Jul 28 09:42	8° ♄ 54'50	1.37221 AU				
				superior conj	11340 Jul 16 23:29	4° ♄ 14'42	-1°09'37
superior conj	11339 Aug 04 04:33	21° ♄ 44'06	-0°35'51	minimum elong	11340 Jul 17 04:19	4° ♄ 37'02	1°09'28
minimum elong	11339 Aug 04 06:54	21° ♄ 55'34	0°35'53	asc. node	11340 Jul 24 20:43	19° ♄ 12'05	
asc. node	11339 Aug 07 23:54	29° ♄ 15'14		evening rise	11340 Jul 26 11:07	22° ♄ 17'08	
	11339 Aug 08 08:52	0° ♄			11340 Jul 30 12:21	0° ♄	
evening rise	11339 Aug 12 15:26	8° ♄ 35'04		evening max el	11340 Aug 11 13:11	18° ♄ 18'56	18°37'46
	11339 Aug 24 11:26	0° ♄		retrograde	11340 Aug 19 14:21	22° ♄ 21'03	
evening max el	11339 Aug 29 12:29	6° ♄ 14'25	19°25'08	evening set	11340 Aug 21 14:03	22° ♄ 07'07	
retrograde	11339 Sep 08 00:36	10° ♄ 58'11		desc. node	11340 Aug 27 10:48	19° ♄ 11'56	
evening set	11339 Sep 09 20:51	10° ♄ 48'17		inferior conj	11340 Aug 29 12:26	17° ♄ 40'55	-0°38'37
desc. node	11339 Sep 10 13:25	10° ♄ 39'42		minimum elong	11340 Aug 29 10:53	17° ♄ 43'51	0°38'13
inferior conj	11339 Sep 18 13:16	6° ♄ 41'23	-2°28'56	min. Earth dist.	11340 Sep 01 17:28	15° ♄ 16'20	0.57338 AU
minimum elong	11339 Sep 18 06:41	6° ♄ 52'02	2°26'25	morning rise	11340 Sep 06 04:16	12° ♄ 32'38	
min. Earth dist.	11339 Sep 21 01:18	5° ♄ 04'31	0.55644 AU	direct	11340 Sep 12 01:00	11° ♄ 07'18	
morning rise	11339 Sep 26 14:04	2° ♄ 10'39		morning max el	11340 Sep 26 08:19	18° ♄ 37'17	26°43'00
direct	11339 Oct 01 17:04	1° ♄ 11'19			11340 Oct 05 22:06	0° ♄	
morning max el	11339 Oct 15 17:02	8° ♄ 14'02	25°14'42	asc. node	11340 Oct 20 21:43	25° ♄ 15'33	
	11339 Oct 31 18:48	0° ♄			11340 Oct 23 06:11	0° ♄	
asc. node	11339 Nov 04 00:55	5° ♄ 52'37		morning set	11340 Oct 25 18:51	5° ♄ 17'46	
morning set	11339 Nov 11 08:50	20° ♄ 41'15					
	11339 Nov 15 15:17	0° ♄		superior conj	11340 Nov 01 15:42	20° ♄ 23'06	1°32'21

minimum elong	11340 Nov 01 14:11	20° \mathbb{M} 14'39	1°32'43	morning set	11341 Oct 10 01:29	19° \mathbb{A} 41'32	
max. Earth dist.	11340 Nov 02 01:13	21° \mathbb{M} 16'04	1.31512 AU		11341 Oct 14 20:02	0° \mathbb{M}	
	11340 Nov 06 00:09	0° \mathbb{A}		max. Earth dist.	11341 Oct 16 10:22	3° \mathbb{M} 32'18	1.31398 AU
evening rise	11340 Nov 08 12:17	5° \mathbb{A} 22'58					
	11340 Nov 21 11:29	0° \mathbb{B}		superior conj	11341 Oct 17 03:16	5° \mathbb{M} 06'21	1°20'38
desc. node	11340 Nov 23 08:10	3° \mathbb{B} 02'15		minimum elong	11341 Oct 17 01:11	4° \mathbb{M} 54'41	1°20'43
evening max el	11340 Dec 09 09:18	23° \mathbb{B} 43'15	27°05'38	evening rise	11341 Oct 23 20:33	19° \mathbb{M} 54'36	
	11340 Dec 18 14:48	0° \approx			11341 Oct 28 17:29	0° \mathbb{A}	
retrograde	11340 Dec 23 07:11	0° \approx 54'31		desc. node	11341 Nov 10 05:19	21° \mathbb{A} 38'35	
	11340 Dec 27 20:24	30° \mathbb{R} \mathbb{B}			11341 Nov 16 12:03	0° \mathbb{B}	
evening set	11340 Dec 30 04:28	28° \mathbb{B} 50'34		evening max el	11341 Nov 21 07:18	5° \mathbb{B} 08'14	26°06'29
min. Earth dist.	11341 Jan 02 23:45	26° \mathbb{B} 08'45	0.60450 AU	retrograde	11341 Dec 05 05:18	12° \mathbb{B} 11'55	
inferior conj	11341 Jan 06 03:20	23° \mathbb{B} 30'36	-3°23'38	evening set	11341 Dec 11 14:30	10° \mathbb{B} 34'51	
minimum elong	11341 Jan 06 10:15	23° \mathbb{B} 16'05	3°20'34	min. Earth dist.	11341 Dec 15 20:14	7° \mathbb{B} 59'33	0.58336 AU
morning rise	11341 Jan 13 18:45	18° \mathbb{B} 42'13		inferior conj	11341 Dec 18 22:43	5° \mathbb{B} 44'12	-4°37'38
direct	11341 Jan 15 21:39	18° \mathbb{B} 24'30		minimum elong	11341 Dec 19 06:57	5° \mathbb{B} 29'11	4°34'49
asc. node	11341 Jan 16 21:20	18° \mathbb{B} 28'28		morning rise	11341 Dec 27 02:02	1° \mathbb{B} 18'17	
morning max el	11341 Jan 23 05:26	22° \mathbb{B} 04'04	18°00'45	direct	11341 Dec 29 05:42	1° \mathbb{B} 03'01	
	11341 Jan 29 08:07	0° \approx		asc. node	11342 Jan 03 18:29	2° \mathbb{B} 50'38	
morning set	11341 Feb 07 19:51	16° \approx 40'20		morning max el	11342 Jan 06 13:24	5° \mathbb{B} 06'49	18°34'28
	11341 Feb 15 02:24	0° \mathbb{H}			11342 Jan 22 04:12	0° \approx	
				morning set	11342 Jan 22 14:14	0° \approx 48'22	
superior conj	11341 Feb 17 22:00	5° \mathbb{H} 01'04	0°11'00				
minimum elong	11341 Feb 17 22:55	5° \mathbb{H} 05'09	0°11'12	superior conj	11342 Jan 31 11:22	17° \approx 47'32	0°43'47
behind sun begin	11341 Feb 17 17:13	4° \mathbb{H} 39'59		minimum elong	11342 Jan 31 14:05	18° \approx 00'09	0°43'53
behind sun end	11341 Feb 18 04:38	5° \mathbb{H} 30'16		desc. node	11342 Feb 06 04:51	28° \approx 11'04	
desc. node	11341 Feb 19 08:10	7° \mathbb{H} 30'53			11342 Feb 07 05:39	0° \mathbb{H}	
max. Earth dist.	11341 Feb 25 12:24	18° \mathbb{H} 01'45	1.42239 AU	max. Earth dist.	11342 Feb 07 20:33	1° \mathbb{H} 04'55	1.40128 AU
evening rise	11341 Mar 03 02:14	27° \mathbb{H} 06'17		evening rise	11342 Feb 12 00:27	8° \mathbb{H} 10'14	
	11341 Mar 04 22:05	0° \mathbb{Y}			11342 Feb 25 22:22	0° \mathbb{Y}	
	11341 Mar 25 08:37	0° \mathbb{B}		evening max el	11342 Mar 18 17:47	26° \mathbb{Y} 48'56	23°50'09
evening max el	11341 Apr 05 03:20	13° \mathbb{B} 01'03	22°29'30		11342 Mar 22 06:51	0° \mathbb{B}	
retrograde	11341 Apr 14 22:52	18° \mathbb{B} 49'00		retrograde	11342 Mar 29 17:00	3° \mathbb{B} 16'35	
asc. node	11341 Apr 14 18:54	18° \mathbb{B} 48'52		asc. node	11342 Apr 01 16:12	2° \mathbb{B} 35'31	
evening set	11341 Apr 19 17:13	16° \mathbb{B} 50'25		evening set	11342 Apr 03 22:59	1° \mathbb{B} 04'21	
inferior conj	11341 Apr 25 00:54	10° \mathbb{B} 27'58	2°44'23		11342 Apr 05 02:13	30° \mathbb{R} \mathbb{Y}	
minimum elong	11341 Apr 24 22:57	10° \mathbb{B} 34'43	2°43'34	min. Earth dist.	11342 Apr 08 16:50	25° \mathbb{Y} 33'11	0.68517 AU
min. Earth dist.	11341 Apr 24 20:19	10° \mathbb{B} 43'55	0.68727 AU	inferior conj	11342 Apr 09 09:39	24° \mathbb{Y} 35'49	2°13'59
morning rise	11341 Apr 30 04:34	4° \mathbb{B} 17'54		minimum elong	11342 Apr 09 07:28	24° \mathbb{Y} 43'15	2°13'07
direct	11341 May 04 20:02	2° \mathbb{B} 21'24		morning rise	11342 Apr 14 15:59	18° \mathbb{Y} 32'31	
morning max el	11341 May 13 22:35	7° \mathbb{B} 39'48	21°48'16	direct	11342 Apr 18 18:21	16° \mathbb{Y} 57'37	
desc. node	11341 May 18 09:27	12° \mathbb{B} 37'27		morning max el	11342 Apr 26 17:52	21° \mathbb{Y} 29'16	20°29'41
	11341 May 31 04:49	0° \mathbb{I}			11342 May 03 22:11	0° \mathbb{B}	
morning set	11341 Jun 15 09:06	23° \mathbb{I} 09'53		desc. node	11342 May 05 06:14	1° \mathbb{B} 47'30	
	11341 Jun 19 14:29	0° \mathbb{E}			11342 May 24 09:55	0° \mathbb{I}	
max. Earth dist.	11341 Jun 21 08:07	2° \mathbb{E} 51'44	1.41755 AU	morning set	11342 May 25 15:49	1° \mathbb{I} 55'28	
				max. Earth dist.	11342 Jun 03 15:36	16° \mathbb{I} 06'03	1.43649 AU
superior conj	11341 Jun 28 23:35	15° \mathbb{E} 53'28	-1°40'56				
minimum elong	11341 Jun 29 06:09	16° \mathbb{E} 22'12	1°40'53	superior conj	11342 Jun 10 00:38	26° \mathbb{I} 31'07	-2°04'24
	11341 Jul 06 20:19	0° \mathbb{Q}		minimum elong	11342 Jun 10 06:07	26° \mathbb{I} 53'55	2°04'46
evening rise	11341 Jul 09 19:19	5° \mathbb{Q} 26'02			11342 Jun 12 02:40	0° \mathbb{E}	
asc. node	11341 Jul 11 17:35	8° \mathbb{Q} 58'31		evening rise	11342 Jun 22 11:20	17° \mathbb{E} 49'35	
	11341 Jul 24 22:54	0° \mathbb{M}		asc. node	11342 Jun 28 14:30	28° \mathbb{E} 29'11	
evening max el	11341 Jul 25 22:03	1° \mathbb{M} 00'34	18°11'06		11342 Jun 29 11:56	0° \mathbb{Q}	
retrograde	11341 Aug 01 23:04	4° \mathbb{M} 34'59		evening max el	11342 Jul 09 11:08	14° \mathbb{Q} 09'12	18°04'01
evening set	11341 Aug 04 05:52	4° \mathbb{M} 13'00		retrograde	11342 Jul 15 23:02	17° \mathbb{Q} 30'40	
	11341 Aug 10 17:54	30° \mathbb{R} \mathbb{Q}		evening set	11342 Jul 18 13:49	16° \mathbb{Q} 57'20	
inferior conj	11341 Aug 11 09:19	29° \mathbb{Q} 26'10	0°52'47	inferior conj	11342 Jul 25 01:05	11° \mathbb{Q} 51'19	1°59'21
minimum elong	11341 Aug 11 10:58	29° \mathbb{Q} 22'30	0°51'47	minimum elong	11342 Jul 25 03:46	11° \mathbb{Q} 44'28	1°58'00
desc. node	11341 Aug 14 08:07	26° \mathbb{Q} 50'11		min. Earth dist.	11342 Jul 28 01:31	8° \mathbb{Q} 48'51	0.61762 AU
min. Earth dist.	11341 Aug 14 17:02	26° \mathbb{Q} 31'20	0.59483 AU	morning rise	11342 Jul 31 15:20	5° \mathbb{Q} 47'21	
morning rise	11341 Aug 18 12:50	23° \mathbb{Q} 44'48		desc. node	11342 Aug 01 05:25	5° \mathbb{Q} 23'48	
direct	11341 Aug 24 22:29	21° \mathbb{Q} 50'29		direct	11342 Aug 07 07:29	3° \mathbb{Q} 27'17	
morning max el	11341 Sep 08 06:59	29° \mathbb{Q} 40'26	27°39'27	morning max el	11342 Aug 21 12:09	11° \mathbb{Q} 28'40	27°57'34
	11341 Sep 08 14:54	0° \mathbb{M}			11342 Sep 05 02:21	0° \mathbb{M}	
	11341 Sep 29 22:08	0° \mathbb{A}			11342 Sep 22 05:56	0° \mathbb{A}	
asc. node	11341 Oct 07 18:29	14° \mathbb{A} 57'06		morning set	11342 Sep 24 02:47	3° \mathbb{A} 47'13	

asc. node	11342 Sep 24 15:13	4°♄51'14		asc. node	11343 Sep 11 11:56	24°♄53'04	
max. Earth dist.	11342 Sep 29 16:47	15°♄37'49	1.31783 AU	max. Earth dist.	11343 Sep 12 16:40	27°♄23'05	1.32688 AU
					11343 Sep 13 22:22	0°♄	
superior conj	11342 Oct 01 13:12	19°♄41'08	1°03'32	superior conj	11343 Sep 15 19:31	4°♄01'37	0°41'18
minimum elong	11342 Oct 01 10:58	19°♄28'50	1°03'21	minimum elong	11343 Sep 15 17:42	3°♄51'50	0°40'56
	11342 Oct 06 05:29	0°♄		evening rise	11343 Sep 22 18:42	19°♄06'02	
evening rise	11342 Oct 08 07:19	4°♄30'48			11343 Sep 28 01:33	0°♄	
	11342 Oct 21 16:15	0°♄		desc. node	11343 Oct 14 23:53	25°♄32'27	
desc. node	11342 Oct 28 02:34	9°♄16'15		evening max el	11343 Oct 15 07:53	25°♄52'06	22°59'17
evening max el	11342 Nov 02 21:21	15°♄44'34	24°39'43		11343 Oct 20 13:02	0°♄	
retrograde	11342 Nov 16 16:04	22°♄38'47		retrograde	11343 Oct 28 13:40	2°♄27'20	
evening set	11342 Nov 22 01:03	21°♄34'29		evening set	11343 Nov 01 12:48	1°♄53'10	
min. Earth dist.	11342 Nov 27 08:52	18°♄47'30	0.56454 AU		11343 Nov 06 03:40	30°♄	
inferior conj	11342 Nov 29 21:48	17°♄10'41	-5°32'58	min. Earth dist.	11343 Nov 08 16:55	28°♄36'16	0.55115 AU
minimum elong	11342 Nov 30 03:26	17°♄01'42	5°31'34	inferior conj	11343 Nov 10 01:41	27°♄49'11	-5°47'57
morning rise	11342 Dec 08 08:00	13°♄06'18		minimum elong	11343 Nov 09 23:46	27°♄51'56	5°47'20
direct	11342 Dec 10 18:42	12°♄49'56		morning rise	11343 Nov 18 12:22	23°♄59'40	
morning max el	11342 Dec 20 10:54	17°♄27'41	19°30'13	direct	11343 Nov 21 13:34	23°♄37'50	
asc. node	11342 Dec 21 15:34	18°♄40'33		morning max el	11343 Dec 02 18:46	28°♄56'45	20°48'50
	11342 Dec 29 15:23	0°♄			11343 Dec 03 20:20	0°♄	
morning set	11343 Jan 06 16:52	15°♄17'57		asc. node	11343 Dec 08 12:35	5°♄41'17	
	11343 Jan 14 00:53	0°♄		morning set	11343 Dec 22 00:45	29°♄59'33	
					11343 Dec 22 00:50	0°♄	
superior conj	11343 Jan 14 17:03	1°♄19'24	1°08'45	superior conj	11343 Dec 29 10:34	15°♄23'06	1°25'58
minimum elong	11343 Jan 14 20:00	1°♄33'51	1°09'00	minimum elong	11343 Dec 29 12:50	15°♄34'46	1°26'26
max. Earth dist.	11343 Jan 21 02:29	13°♄28'00	1.37909 AU	max. Earth dist.	11344 Jan 03 11:05	25°♄26'07	1.35819 AU
desc. node	11343 Jan 24 01:37	18°♄49'03			11344 Jan 05 20:08	0°♄	
evening rise	11343 Jan 24 19:56	20°♄10'00		evening rise	11344 Jan 07 09:50	2°♄56'34	
	11343 Jan 30 14:28	0°♄		desc. node	11344 Jan 10 22:27	9°♄20'10	
	11343 Feb 20 00:19	0°♄			11344 Jan 23 14:15	0°♄	
evening max el	11343 Mar 01 07:13	10°♄39'32	25°07'42	evening max el	11344 Feb 11 20:49	24°♄28'17	26°15'02
retrograde	11343 Mar 13 07:06	17°♄37'17			11344 Feb 18 21:40	0°♄	
evening set	11343 Mar 19 00:59	15°♄13'59		retrograde	11344 Feb 24 16:04	1°♄44'07	
asc. node	11343 Mar 19 13:31	14°♄46'14			11344 Feb 29 20:41	30°♄	
min. Earth dist.	11343 Mar 23 11:22	10°♄17'53	0.67885 AU	evening set	11344 Mar 01 21:29	29°♄13'21	
inferior conj	11343 Mar 24 16:08	8°♄43'48	1°34'00	asc. node	11344 Mar 05 10:51	25°♄36'01	
minimum elong	11343 Mar 24 14:11	8°♄50'09	1°33'17	min. Earth dist.	11344 Mar 06 01:37	24°♄51'57	0.66848 AU
morning rise	11343 Mar 30 03:43	2°♄48'34		inferior conj	11344 Mar 07 18:19	22°♄47'01	0°44'22
direct	11343 Apr 02 17:53	1°♄34'27		minimum elong	11344 Mar 07 17:13	22°♄50'25	0°44'05
morning max el	11343 Apr 09 20:50	5°♄30'06	19°24'38	morning rise	11344 Mar 13 13:43	17°♄01'42	
desc. node	11343 Apr 22 02:58	21°♄28'19		direct	11344 Mar 16 16:55	16°♄06'06	
greatest brilliancy	11343 Apr 22 14:11	22°♄09'44	-0.7m	morning max el	11344 Mar 23 06:58	19°♄38'18	18°35'29
	11343 Apr 27 19:30	0°♄			11344 Mar 31 10:29	0°♄	
morning set	11343 May 04 15:47	10°♄28'38		desc. node	11344 Apr 07 23:40	11°♄31'14	
max. Earth dist.	11343 May 17 05:19	0°♄02'12	1.44997 AU	morning set	11344 Apr 13 08:01	19°♄54'48	
	11343 May 17 04:46	0°♄			11344 Apr 19 18:13	0°♄	
superior conj	11343 May 21 01:58	6°♄09'22	-2°13'15	superior conj	11344 Apr 29 10:51	15°♄09'46	-2°02'21
minimum elong	11343 May 21 01:46	6°♄08'33	2°13'53	minimum elong	11344 Apr 29 03:27	14°♄40'48	2°02'22
evening rise	11343 Jun 04 06:16	29°♄17'00		max. Earth dist.	11344 Apr 28 23:42	14°♄26'07	1.45656 AU
	11343 Jun 04 16:36	0°♄			11344 May 08 21:40	0°♄	
asc. node	11343 Jun 15 11:30	17°♄38'15		evening rise	11344 May 15 01:05	9°♄44'11	
evening max el	11343 Jun 23 01:02	27°♄36'12	18°15'34	greatest brilliancy	11344 May 23 05:00	22°♄42'05	-0.8m
	11343 Jun 26 01:39	0°♄			11344 May 27 22:29	0°♄	
retrograde	11343 Jun 29 09:49	0°♄58'51		asc. node	11344 Jun 01 08:35	6°♄18'12	
evening set	11343 Jul 02 08:43	0°♄11'43		evening max el	11344 Jun 05 12:48	11°♄13'59	18°44'57
	11343 Jul 02 17:11	30°♄		retrograde	11344 Jun 12 03:34	14°♄51'21	
inferior conj	11343 Jul 08 07:38	24°♄48'14	2°42'51	evening set	11344 Jun 15 10:46	13°♄48'57	
minimum elong	11343 Jul 08 09:58	24°♄41'35	2°41'42	inferior conj	11344 Jun 21 01:05	8°♄09'27	3°07'14
min. Earth dist.	11343 Jul 10 19:16	21°♄59'40	0.63911 AU	minimum elong	11344 Jun 21 02:26	8°♄05'15	3°06'23
morning rise	11343 Jul 14 09:46	18°♄31'56		min. Earth dist.	11344 Jun 22 21:52	5°♄50'53	0.65744 AU
desc. node	11343 Jul 19 02:40	16°♄07'58		morning rise	11344 Jun 26 17:21	1°♄48'16	
direct	11343 Jul 21 01:46	15°♄54'53			11344 Jun 29 09:08	30°♄	
morning max el	11343 Aug 03 21:20	23°♄56'37	27°38'20	direct	11344 Jul 03 03:31	29°♄05'13	
	11343 Aug 09 07:42	0°♄		desc. node	11344 Jul 04 23:51	29°♄17'07	
	11343 Aug 29 11:19	0°♄					
morning set	11343 Sep 07 20:20	17°♄28'11					

	11344 Jul 07 04:59	0°☿		min. Earth dist.	11345 Jun 06 08:03	20°☿09'28	0.67165 AU
morning max el	11344 Jul 16 08:05	6°☿54'11	26°47'45	morning rise	11345 Jun 10 11:16	15°☿26'55	
	11344 Aug 03 04:08	0°☿		direct	11345 Jun 16 11:36	12°☿48'06	
	11344 Aug 20 19:23	0°☿		desc. node	11345 Jun 21 20:57	14°☿29'35	
morning set	11344 Aug 21 03:13	0°☿37'15		morning max el	11345 Jun 28 18:35	20°☿09'50	25°34'13
max. Earth dist.	11344 Aug 25 07:14	8°☿45'42	1.34105 AU		11345 Jul 07 04:47	0°☿	
asc. node	11344 Aug 28 08:40	14°☿58'47			11345 Jul 27 07:36	0°☿	
				morning set	11345 Aug 03 19:29	13°☿03'34	
superior conj	11344 Aug 29 19:58	18°☿01'52	0°14'18	max. Earth dist.	11345 Aug 07 11:46	19°☿52'27	1.35980 AU
minimum elong	11344 Aug 29 19:13	17°☿57'59	0°13'56		11345 Aug 12 16:57	0°☿	
behind sun begin	11344 Aug 29 16:20	17°☿42'55					
behind sun end	11344 Aug 29 22:07	18°☿13'03		superior conj	11345 Aug 13 11:42	1°☿33'33	-0°16'43
	11344 Sep 04 11:58	0°☿		minimum elong	11345 Aug 13 12:44	1°☿38'46	0°16'55
evening rise	11344 Sep 06 04:48	3°☿35'21		asc. node	11345 Aug 15 05:25	5°☿03'50	
	11344 Sep 20 19:50	0°☿		evening rise	11345 Aug 21 11:23	17°☿51'39	
evening max el	11344 Sep 25 23:49	6°☿06'47	21°22'31		11345 Aug 27 15:08	0°☿	
desc. node	11344 Sep 30 21:14	9°☿59'30		evening max el	11345 Sep 08 04:17	16°☿58'10	20°01'57
retrograde	11344 Oct 08 01:52	12°☿07'02		desc. node	11345 Sep 17 18:37	22°☿08'42	
evening set	11344 Oct 10 17:14	11°☿50'59		retrograde	11345 Sep 18 15:46	22°☿10'49	
inferior conj	11344 Oct 19 18:20	7°☿55'42	-5°05'52	evening set	11345 Sep 20 14:14	22°☿00'56	
minimum elong	11344 Oct 19 09:20	8°☿08'19	5°03'39	inferior conj	11345 Sep 29 13:42	18°☿01'17	-3°33'33
min. Earth dist.	11344 Oct 19 23:47	7°☿48'04	0.54589 AU	minimum elong	11345 Sep 29 04:37	18°☿14'58	3°30'20
morning rise	11344 Oct 28 02:14	4°☿05'58		min. Earth dist.	11345 Oct 01 08:39	16°☿56'40	0.54998 AU
direct	11344 Oct 31 22:14	3°☿34'17		morning rise	11345 Oct 07 17:49	13°☿50'01	
morning max el	11344 Nov 13 13:34	9°☿36'22	22°27'10	direct	11345 Oct 12 09:16	13°☿03'09	
asc. node	11344 Nov 24 09:33	23°☿37'21		morning max el	11345 Oct 26 01:08	19°☿45'44	24°14'59
	11344 Nov 28 01:42	0°☿			11345 Nov 03 16:16	0°☿	
morning set	11344 Dec 05 11:35	14°☿46'45		asc. node	11345 Nov 11 06:25	12°☿15'06	
				morning set	11345 Nov 19 23:26	29°☿33'43	
superior conj	11344 Dec 12 12:23	29°☿48'48	1°35'58		11345 Nov 20 04:21	0°☿	
minimum elong	11344 Dec 12 13:35	29°☿55'09	1°36'35				
	11344 Dec 12 14:30	0°☿		superior conj	11345 Nov 26 19:41	14°☿28'02	1°39'19
max. Earth dist.	11344 Dec 16 02:30	7°☿19'36	1.34041 AU	minimum elong	11345 Nov 26 19:43	14°☿28'10	1°39'58
evening rise	11344 Dec 20 14:29	16°☿20'31		max. Earth dist.	11345 Nov 29 01:44	19°☿20'48	1.32680 AU
desc. node	11344 Dec 27 19:22	29°☿39'54		evening rise	11345 Dec 04 06:24	0°☿12'52	
	11344 Dec 27 23:58	0°☿			11345 Dec 04 03:52	0°☿	
	11345 Jan 17 01:57	0°☿		desc. node	11345 Dec 14 16:23	19°☿42'28	
evening max el	11345 Jan 24 10:25	8°☿06'44	27°04'44		11345 Dec 21 00:37	0°☿	
retrograde	11345 Feb 06 19:05	15°☿29'55		evening max el	11346 Jan 06 22:36	21°☿23'14	27°29'50
evening set	11345 Feb 13 10:33	12°☿56'39		retrograde	11346 Jan 20 15:36	28°☿46'02	
min. Earth dist.	11345 Feb 17 09:19	9°☿08'58	0.65432 AU	evening set	11346 Jan 27 13:50	26°☿17'07	
inferior conj	11345 Feb 19 13:57	6°☿40'25	-0°14'56	min. Earth dist.	11346 Jan 31 08:31	23°☿00'20	0.63675 AU
minimum elong	11345 Feb 19 14:22	6°☿39'13	0°14'25	inferior conj	11346 Feb 03 00:22	20°☿17'37	-1°23'19
transit middle	11345 Feb 19 14:22	6°☿39'13	0°14'25	minimum elong	11346 Feb 03 03:02	20°☿10'47	1°21'43
transit begin	11345 Feb 19 13:03	6°☿42'55		asc. node	11346 Feb 07 05:26	16°☿26'34	
transit end	11345 Feb 19 15:40	6°☿35'32		morning rise	11346 Feb 09 18:22	14°☿59'45	
asc. node	11345 Feb 20 08:10	5°☿49'13		direct	11346 Feb 12 04:13	14°☿31'14	
morning rise	11345 Feb 25 19:36	1°☿07'26		morning max el	11346 Feb 18 15:56	17°☿51'49	17°47'56
direct	11345 Feb 28 13:16	0°☿27'11			11346 Feb 27 12:26	0°☿	
morning max el	11345 Mar 06 22:16	3°☿48'04	18°03'06	morning set	11346 Mar 07 04:28	12°☿56'34	
	11345 Mar 24 17:21	0°☿		desc. node	11346 Mar 12 17:00	22°☿20'37	
morning set	11345 Mar 25 04:36	0°☿45'59			11346 Mar 17 07:07	0°☿	
desc. node	11345 Mar 25 20:20	1°☿50'14					
				superior conj	11346 Mar 19 21:53	4°☿17'23	-0°52'34
superior conj	11345 Apr 08 19:50	24°☿17'19	-1°32'45	minimum elong	11346 Mar 19 16:19	3°☿54'42	0°51'47
minimum elong	11345 Apr 08 10:35	23°☿40'53	1°32'00	max. Earth dist.	11346 Mar 25 14:54	13°☿28'14	1.44752 AU
max. Earth dist.	11345 Apr 11 19:59	29°☿00'56	1.45569 AU	evening rise	11346 Apr 04 10:12	28°☿45'27	
	11345 Apr 12 11:04	0°☿			11346 Apr 05 05:39	0°☿	
evening rise	11345 Apr 24 22:38	19°☿23'01			11346 Apr 25 16:58	0°☿	
	11345 May 01 20:15	0°☿		evening max el	11346 May 02 21:58	8°☿40'14	20°31'54
greatest brilliancy	11345 May 08 01:59	9°☿26'03	-0.7m	asc. node	11346 May 06 02:56	11°☿28'25	
asc. node	11345 May 19 05:44	24°☿18'53		retrograde	11346 May 10 23:57	13°☿21'41	
evening max el	11345 May 19 20:11	24°☿56'12	19°31'03	evening set	11346 May 15 01:22	11°☿47'25	
retrograde	11345 May 27 01:06	29°☿00'38		inferior conj	11346 May 20 08:06	5°☿40'31	3°12'19
evening set	11345 May 30 17:02	27°☿42'18		minimum elong	11346 May 20 07:16	5°☿43'22	3°11'39
inferior conj	11345 Jun 05 02:08	21°☿48'16	3°16'10	min. Earth dist.	11346 May 20 23:58	4°☿45'58	0.68136 AU
minimum elong	11345 Jun 05 02:21	21°☿47'34	3°15'29		11346 May 24 21:00	30°☿	

morning rise	11346 May 25 12:56	29°♄22'01		evening set	11347 Apr 29 09:56	25°♄59'20	
direct	11346 May 31 01:10	26°♄55'30		inferior conj	11347 May 04 16:41	19°♄41'49	2°57'30
	11346 Jun 07 04:39	0°♄		minimum elong	11347 May 04 15:04	19°♄47'30	2°56'44
desc. node	11346 Jun 08 17:57	1°♄17'03		min. Earth dist.	11347 May 04 19:26	19°♄32'15	0.68646 AU
morning max el	11346 Jun 11 04:25	3°♄35'35	24°07'34	morning rise	11347 May 09 20:00	13°♄28'05	
	11346 Jul 01 09:18	0°♄		direct	11347 May 14 19:08	11°♄19'32	
morning set	11346 Jul 16 16:29	24°♄35'49		morning max el	11347 May 24 15:16	17°♄08'18	22°37'43
	11346 Jul 19 18:38	0°♄		desc. node	11347 May 26 14:51	19°♄14'04	
max. Earth dist.	11346 Jul 20 09:27	1°♄05'54	1.38185 AU		11347 Jun 04 06:15	0°♄	
					11347 Jun 24 10:46	0°♄	
superior conj	11346 Jul 27 15:19	14°♄28'45	-0°50'13	morning set	11347 Jun 27 13:17	5°♄01'44	
minimum elong	11346 Jul 27 18:44	14°♄44'59	0°50'09	max. Earth dist.	11347 Jul 02 07:05	12°♄56'11	1.40492 AU
asc. node	11346 Aug 02 02:13	25°♄04'44					
	11346 Aug 04 13:59	0°♄		superior conj	11347 Jul 10 02:45	26°♄38'16	-1°23'30
evening rise	11346 Aug 05 11:55	1°♄48'18		minimum elong	11347 Jul 10 08:30	27°♄04'15	1°23'20
evening max el	11346 Aug 21 22:23	28°♄37'01	19°02'24		11347 Jul 11 23:07	0°♄	
	11346 Aug 23 10:45	0°♄		asc. node	11347 Jul 19 23:04	14°♄57'39	
retrograde	11346 Aug 30 18:49	3°♄01'58		evening rise	11347 Jul 20 03:10	15°♄17'04	
evening set	11346 Sep 01 15:31	2°♄51'02			11347 Jul 28 04:41	0°♄	
desc. node	11346 Sep 04 15:59	1°♄50'59		evening max el	11347 Aug 05 03:06	10°♄58'46	18°24'04
	11346 Sep 07 23:06	30°♄		retrograde	11347 Aug 12 16:35	14°♄47'02	
inferior conj	11346 Sep 10 00:46	28°♄36'31	-1°40'47	evening set	11347 Aug 14 19:06	14°♄30'09	
minimum elong	11346 Sep 09 20:25	28°♄44'03	1°39'09	inferior conj	11347 Aug 22 09:17	9°♄55'33	0°03'05
min. Earth dist.	11346 Sep 12 21:57	26°♄37'35	0.56283 AU	minimum elong	11347 Aug 22 09:23	9°♄55'21	0°02'44
morning rise	11346 Sep 17 22:13	23°♄49'28		transit middle	11347 Aug 22 09:23	9°♄55'21	0°02'44
direct	11346 Sep 23 08:57	22°♄39'47		transit begin	11347 Aug 22 05:54	10°♄02'23	
morning max el	11346 Oct 07 13:26	29°♄55'53	25°55'25	transit end	11347 Aug 22 12:52	9°♄48'18	
	11346 Oct 07 15:10	0°♄		desc. node	11347 Aug 22 13:18	9°♄47'25	
	11346 Oct 28 09:37	0°♄		min. Earth dist.	11347 Aug 25 17:14	7°♄15'12	0.58209 AU
asc. node	11346 Oct 29 03:14	1°♄24'04		morning rise	11347 Aug 29 20:08	4°♄32'10	
morning set	11346 Nov 04 10:35	14°♄15'34		direct	11347 Sep 04 23:17	2°♄54'07	
				morning max el	11347 Sep 19 07:37	10°♄34'09	27°11'29
superior conj	11346 Nov 11 06:11	29°♄13'52	1°36'34		11347 Oct 04 07:58	0°♄	
minimum elong	11346 Nov 11 05:09	29°♄08'11	1°37'05	asc. node	11347 Oct 16 00:01	20°♄55'53	
	11346 Nov 11 14:30	0°♄		morning set	11347 Oct 19 19:23	28°♄47'38	
max. Earth dist.	11346 Nov 12 07:12	1°♄32'19	1.31793 AU		11347 Oct 20 08:58	0°♄	
evening rise	11346 Nov 18 06:35	14°♄25'59					
	11346 Nov 26 04:48	0°♄		superior conj	11347 Oct 26 17:54	14°♄00'13	1°28'03
desc. node	11346 Dec 01 13:27	9°♄20'10		minimum elong	11347 Oct 26 16:06	13°♄50'08	1°28'19
	11346 Dec 16 08:45	0°♄		max. Earth dist.	11347 Oct 26 16:01	13°♄49'43	1.31396 AU
evening max el	11346 Dec 20 07:21	4°♄05'07	27°24'17	evening rise	11347 Nov 02 12:32	28°♄53'16	
retrograde	11347 Jan 03 04:41	11°♄22'03			11347 Nov 03 01:07	0°♄	
evening set	11347 Jan 10 04:15	9°♄06'18		desc. node	11347 Nov 18 10:35	28°♄23'10	
min. Earth dist.	11347 Jan 13 21:42	6°♄14'22	0.61664 AU		11347 Nov 19 11:55	0°♄	
inferior conj	11347 Jan 16 22:23	3°♄30'01	-2°38'49	evening max el	11347 Dec 02 10:12	16°♄01'43	26°44'35
minimum elong	11347 Jan 17 03:48	3°♄17'45	2°36'08	retrograde	11347 Dec 16 08:49	23°♄09'54	
	11347 Jan 21 05:28	30°♄		evening set	11347 Dec 23 02:00	21°♄16'41	
morning rise	11347 Jan 24 06:02	28°♄30'09		min. Earth dist.	11347 Dec 27 00:23	18°♄39'17	0.59539 AU
asc. node	11347 Jan 25 02:40	28°♄17'14		inferior conj	11347 Dec 30 04:33	16°♄08'50	-3°56'09
direct	11347 Jan 26 10:23	28°♄09'37		minimum elong	11347 Dec 30 12:19	15°♄53'26	3°53'01
	11347 Jan 31 10:06	0°♄		morning rise	11348 Jan 07 01:26	11°♄29'33	
morning max el	11347 Feb 02 08:39	1°♄39'50	17°50'36	direct	11348 Jan 09 03:51	11°♄13'23	
morning set	11347 Feb 18 01:24	26°♄06'33		asc. node	11348 Jan 11 23:49	11°♄44'12	
	11347 Feb 20 05:22	0°♄		morning max el	11348 Jan 16 20:54	15°♄02'30	18°12'24
desc. node	11347 Feb 27 13:40	12°♄57'42			11348 Jan 27 04:02	0°♄	
				morning set	11348 Feb 01 13:25	9°♄58'08	
superior conj	11347 Mar 01 00:19	15°♄26'34	-0°11'04				
minimum elong	11347 Feb 28 23:19	15°♄22'17	0°10'39	superior conj	11348 Feb 11 02:10	27°♄41'08	0°25'48
behind sun begin	11347 Feb 28 16:52	14°♄54'43		minimum elong	11348 Feb 11 04:05	27°♄49'45	0°25'56
behind sun end	11347 Mar 01 05:45	15°♄49'48			11348 Feb 12 09:06	0°♄	
max. Earth dist.	11347 Mar 08 06:02	27°♄31'11	1.43301 AU	desc. node	11348 Feb 14 10:22	3°♄38'04	
	11347 Mar 09 18:46	0°♄		max. Earth dist.	11348 Feb 18 16:45	10°♄59'04	1.41379 AU
evening rise	11347 Mar 15 03:12	8°♄29'31		evening rise	11348 Feb 23 13:24	19°♄02'15	
	11347 Mar 29 10:21	0°♄			11348 Mar 01 11:55	0°♄	
evening max el	11347 Apr 15 18:16	22°♄25'25	21°44'23		11348 Mar 22 21:10	0°♄	
asc. node	11347 Apr 23 00:11	27°♄31'28		evening max el	11348 Mar 28 10:29	6°♄12'51	23°03'45
retrograde	11347 Apr 24 22:06	27°♄49'05		retrograde	11348 Apr 07 17:59	12°♄18'09	

asc. node	11348 Apr 08 21:28	12°♄11'55		retrograde	11349 Mar 22 10:24	26°♄43'58	
evening set	11348 Apr 12 17:09	10°♄13'46		asc. node	11349 Mar 26 18:46	25°♄17'58	
min. Earth dist.	11348 Apr 17 16:11	4°♄22'10	0.68699 AU	evening set	11349 Mar 27 21:32	24°♄26'41	
inferior conj	11348 Apr 18 01:56	3°♄48'27	2°32'38	min. Earth dist.	11349 Apr 01 12:05	19°♄10'38	0.68308 AU
minimum elong	11348 Apr 17 23:51	3°♄55'41	2°31'48	inferior conj	11349 Apr 02 09:59	17°♄57'08	1°58'11
	11348 Apr 20 23:29	30°♄		minimum elong	11349 Apr 02 07:50	18°♄04'19	1°57'22
morning rise	11348 Apr 23 06:25	27°♄40'59		morning rise	11349 Apr 07 18:16	11°♄57'13	
direct	11348 Apr 27 16:19	25°♄53'23		direct	11349 Apr 11 15:24	10°♄31'15	
	11348 May 05 09:34	0°♄		morning max el	11349 Apr 19 05:03	14°♄45'31	20°00'09
morning max el	11348 May 06 06:32	0°♄50'39	21°13'14	desc. node	11349 Apr 29 08:28	27°♄26'14	
desc. node	11348 May 12 11:41	8°♄01'40			11349 May 01 03:37	0°♄	
	11348 May 28 00:37	0°♄		morning set	11349 May 16 09:19	22°♄51'13	
morning set	11348 Jun 06 08:05	14°♄17'57			11349 May 20 23:59	0°♄	
max. Earth dist.	11348 Jun 13 10:42	25°♄41'31	1.42621 AU	max. Earth dist.	11349 May 26 21:40	9°♄18'17	1.44305 AU
	11348 Jun 16 01:26	0°♄					
superior conj	11348 Jun 20 17:28	7°♄51'56	-1°52'14	superior conj	11349 Jun 01 08:13	18°♄03'53	-2°10'19
minimum elong	11348 Jun 21 00:03	8°♄20'09	1°52'21	minimum elong	11349 Jun 01 11:51	18°♄18'38	2°10'53
evening rise	11348 Jul 02 05:02	28°♄07'42			11349 Jun 08 13:16	0°♄	
	11348 Jul 03 05:58	0°♄		evening rise	11349 Jun 14 12:43	10°♄09'20	
asc. node	11348 Jul 05 19:58	4°♄37'57		asc. node	11349 Jun 22 16:56	24°♄00'44	
evening max el	11348 Jul 18 14:16	23°♄53'10	18°05'48		11349 Jun 26 12:17	0°♄	
retrograde	11348 Jul 25 08:11	27°♄19'56		evening max el	11349 Jul 02 04:07	7°♄11'06	18°06'39
evening set	11348 Jul 27 18:30	26°♄53'19		retrograde	11349 Jul 08 13:27	10°♄31'25	
inferior conj	11348 Aug 03 14:36	21°♄58'05	1°24'05	evening set	11349 Jul 11 07:44	9°♄52'20	
minimum elong	11348 Aug 03 16:55	21°♄52'37	1°22'50	inferior conj	11349 Jul 17 13:13	4°♄38'20	2°20'23
min. Earth dist.	11348 Aug 06 20:11	18°♄57'21	0.60455 AU	minimum elong	11349 Jul 17 15:53	4°♄31'13	2°19'06
desc. node	11348 Aug 08 10:38	17°♄35'53		min. Earth dist.	11349 Jul 20 08:29	1°♄39'46	0.62706 AU
morning rise	11348 Aug 10 12:28	16°♄06'09			11349 Jul 22 01:37	30°♄	
direct	11348 Aug 17 01:55	14°♄00'05		morning rise	11349 Jul 23 22:06	28°♄28'04	
morning max el	11348 Aug 31 09:00	21°♄55'19	27°52'02	desc. node	11349 Jul 26 07:54	27°♄00'08	
	11348 Sep 07 11:07	0°♄		direct	11349 Jul 30 14:51	25°♄59'55	
	11348 Sep 26 09:59	0°♄			11349 Aug 09 03:23	0°♄	
asc. node	11348 Oct 01 20:45	10°♄43'12		morning max el	11349 Aug 13 16:19	4°♄02'12	27°53'47
morning set	11348 Oct 02 23:58	13°♄03'55			11349 Sep 02 02:16	0°♄	
max. Earth dist.	11348 Oct 09 00:28	26°♄02'26	1.31498 AU	morning set	11349 Sep 16 22:17	26°♄59'49	
					11349 Sep 18 09:31	0°♄	
superior conj	11348 Oct 10 04:59	28°♄40'18	1°14'03	asc. node	11349 Sep 18 17:30	0°♄41'19	
minimum elong	11348 Oct 10 02:46	28°♄28'01	1°14'00	max. Earth dist.	11349 Sep 22 04:47	8°♄01'22	1.32109 AU
	11348 Oct 10 19:20	0°♄					
evening rise	11348 Oct 16 22:05	13°♄27'31		superior conj	11349 Sep 24 13:37	13°♄09'28	0°54'44
	11348 Oct 25 03:04	0°♄		minimum elong	11349 Sep 24 11:29	12°♄57'49	0°54'26
desc. node	11348 Nov 04 07:48	16°♄36'50		evening rise	11349 Oct 01 09:22	28°♄03'59	
evening max el	11348 Nov 13 04:52	27°♄05'29	25°32'26		11349 Oct 02 07:04	0°♄	
	11348 Nov 16 14:55	0°♄			11349 Oct 19 06:03	0°♄	
retrograde	11348 Nov 27 01:52	4°♄04'45		desc. node	11349 Oct 22 05:05	3°♄42'41	
evening set	11348 Dec 03 02:22	2°♄41'29		evening max el	11349 Oct 25 16:22	7°♄24'53	23°57'31
min. Earth dist.	11348 Dec 07 17:10	0°♄03'36	0.57493 AU	retrograde	11349 Nov 08 06:44	14°♄12'39	
	11348 Dec 07 19:20	30°♄		evening set	11349 Nov 13 02:24	13°♄21'51	
inferior conj	11348 Dec 10 15:28	28°♄03'14	-5°04'34	min. Earth dist.	11349 Nov 19 02:56	10°♄24'28	0.55802 AU
minimum elong	11348 Dec 10 23:14	27°♄49'54	5°02'15	inferior conj	11349 Nov 21 05:47	9°♄07'42	-5°45'32
morning rise	11348 Dec 18 22:27	23°♄46'28		minimum elong	11349 Nov 21 08:41	9°♄03'19	5°44'44
direct	11348 Dec 21 04:22	23°♄31'06		morning rise	11349 Nov 29 16:57	5°♄11'20	
asc. node	11348 Dec 28 20:55	26°♄45'07		direct	11349 Dec 02 09:12	4°♄53'06	
morning max el	11348 Dec 30 00:46	27°♄48'13	18°55'21	morning max el	11349 Dec 12 16:38	9°♄47'08	20°01'02
	11349 Jan 01 01:54	0°♄		asc. node	11349 Dec 15 17:58	13°♄06'42	
morning set	11349 Jan 15 11:45	24°♄16'58			11349 Dec 26 05:43	0°♄	
	11349 Jan 18 09:26	0°♄		morning set	11349 Dec 30 16:55	8°♄52'34	
superior conj	11349 Jan 23 23:03	10°♄48'32	0°55'20				
minimum elong	11349 Jan 24 02:01	11°♄02'38	0°55'28	superior conj	11350 Jan 07 10:15	24°♄35'23	1°16'59
max. Earth dist.	11349 Jan 30 23:58	23°♄46'13	1.39192 AU	minimum elong	11350 Jan 07 12:59	24°♄49'04	1°17'18
desc. node	11349 Jan 31 07:07	24°♄17'56			11350 Jan 10 04:01	0°♄	
evening rise	11349 Feb 03 20:53	0°♄30'51		max. Earth dist.	11350 Jan 13 06:36	5°♄57'06	1.36989 AU
	11349 Feb 03 13:40	0°♄		evening rise	11350 Jan 17 00:33	12°♄51'10	
	11349 Feb 22 20:04	0°♄		desc. node	11350 Jan 18 03:55	14°♄53'31	
evening max el	11349 Mar 11 00:27	20°♄03'00	24°23'53		11350 Jan 27 03:18	0°♄	
					11350 Feb 17 21:08	0°♄	
				evening max el	11350 Feb 21 13:46	3°♄53'21	25°37'58

retrograde	11350 Mar 05 22:24	11° Υ 00'16		retrograde	11351 Feb 17 05:11	25° X 00'00	
evening set	11350 Mar 11 21:27	8° Υ 32'57		evening set	11351 Feb 23 15:06	22° X 27'13	
asc. node	11350 Mar 13 16:05	6° Υ 51'10		min. Earth dist.	11351 Feb 27 16:43	18° X 20'26	0.66285 AU
min. Earth dist.	11350 Mar 16 04:57	3° Υ 52'02	0.67495 AU	asc. node	11351 Feb 28 13:23	17° X 19'27	
inferior conj	11350 Mar 17 14:54	2° Υ 03'46	1°14'08	inferior conj	11351 Mar 01 14:36	16° X 04'07	0°20'26
minimum elong	11350 Mar 17 13:14	2° Υ 09'05	1°13'34	minimum elong	11351 Mar 01 14:03	16° X 05'45	0°20'26
	11350 Mar 19 06:35	30° R X		morning rise	11351 Mar 07 14:06	10° X 23'52	
morning rise	11350 Mar 23 05:33	26° X 12'48		direct	11351 Mar 10 12:57	9° X 35'24	
direct	11350 Mar 26 14:52	25° X 07'01		morning max el	11351 Mar 17 00:05	13° X 01'40	18°19'39
morning max el	11350 Apr 02 11:22	28° X 50'58	19°01'45		11351 Mar 29 08:46	0° Υ	
	11350 Apr 03 14:10	0° Υ		desc. node	11351 Apr 03 01:54	7° Υ 28'23	
greatest brilliancy	11350 Apr 15 19:14	16° Υ 39'50	-0.7m	morning set	11351 Apr 05 17:32	11° Υ 42'15	
desc. node	11350 Apr 16 05:12	17° Υ 17'28			11351 Apr 17 06:44	0° B	
	11350 Apr 24 11:45	0° B		superior conj	11351 Apr 21 07:45	6° B 20'05	-1°51'43
morning set	11350 Apr 25 13:46	1° B 40'44		minimum elong	11351 Apr 20 22:42	5° B 44'39	1°51'22
max. Earth dist.	11350 May 09 13:58	23° B 29'35	1.45367 AU	max. Earth dist.	11351 Apr 22 09:02	7° B 58'53	1.45712 AU
					11351 May 06 11:13	0° II	
superior conj	11350 May 12 01:01	27° B 21'41	-2°11'10	evening rise	11351 May 07 06:35	1° II 15'54	
minimum elong	11350 May 11 21:30	27° B 07'52	2°11'37	greatest brilliancy	11351 May 17 18:02	17° II 36'02	-0.8m
	11350 May 13 17:07	0° II			11351 May 26 08:27	0° E	
evening rise	11350 May 26 21:36	21° II 11'35		asc. node	11351 May 27 11:05	1° E 23'34	
	11350 Jun 01 07:11	0° E		evening max el	11351 May 30 03:28	4° E 23'34	19°02'32
asc. node	11350 Jun 09 13:59	12° E 58'42		retrograde	11351 Jun 05 23:29	8° E 11'15	
evening max el	11350 Jun 15 17:22	20° E 43'15	18°25'52	evening set	11351 Jun 09 10:13	7° E 02'21	
retrograde	11350 Jun 22 03:47	24° E 10'57		inferior conj	11351 Jun 14 21:58	1° E 16'36	3°12'42
evening set	11350 Jun 25 06:06	23° E 17'32		minimum elong	11351 Jun 14 22:50	1° E 13'50	3°11'56
inferior conj	11350 Jul 01 00:54	17° E 46'52	2°55'15		11351 Jun 15 21:52	30° R II	
minimum elong	11350 Jul 01 02:52	17° E 41'04	2°54'16	min. Earth dist.	11351 Jun 16 12:27	29° II 13'45	0.66407 AU
min. Earth dist.	11350 Jul 03 06:16	15° E 09'27	0.64735 AU	morning rise	11351 Jun 20 10:50	24° II 54'39	
morning rise	11350 Jul 06 22:29	11° E 27'26		direct	11351 Jun 26 17:13	22° II 11'58	
desc. node	11350 Jul 13 05:07	8° E 46'58		desc. node	11351 Jun 30 02:16	22° II 51'56	
direct	11350 Jul 13 12:25	8° E 46'39		morning max el	11351 Jul 09 13:33	29° II 51'58	26°18'30
morning max el	11350 Jul 27 02:45	16° E 45'15	27°20'10		11351 Jul 09 16:42	0° E	
	11350 Aug 07 02:21	0° O			11351 Aug 01 00:06	0° O	
	11350 Aug 25 22:14	0° O		morning set	11351 Aug 14 12:53	23° O 20'44	
morning set	11350 Aug 31 11:42	10° O 28'22			11351 Aug 18 00:41	0° O	
max. Earth dist.	11350 Sep 05 01:04	19° O 37'16	1.33229 AU	max. Earth dist.	11351 Aug 18 10:50	0° O 49'31	1.34848 AU
asc. node	11350 Sep 05 14:15	20° O 45'25		asc. node	11351 Aug 23 11:00	10° O 51'25	
				superior conj	11351 Aug 23 14:48	11° O 10'54	0°01'33
superior conj	11350 Sep 08 17:42	27° O 21'51	0°30'23	minimum elong	11351 Aug 23 14:44	11° O 10'30	0°01'14
minimum elong	11350 Sep 08 16:15	27° O 14'09	0°29'59	behind sun begin	11351 Aug 23 08:48	10° O 40'07	
	11350 Sep 09 23:20	0° A		behind sun end	11351 Aug 23 20:39	11° O 40'57	
evening rise	11350 Sep 15 20:26	12° A 37'10		evening rise	11351 Aug 31 05:18	27° O 01'27	
	11350 Sep 24 15:00	0° M			11351 Sep 01 15:52	0° A	
evening max el	11350 Oct 07 03:50	17° M 30'10	22°16'42	evening max el	11351 Sep 19 00:38	27° A 58'17	20°45'53
desc. node	11350 Oct 09 02:24	19° M 16'04			11351 Sep 21 07:00	0° M	
retrograde	11350 Oct 20 00:03	23° M 53'28		desc. node	11351 Sep 25 23:46	2° M 47'29	
evening set	11350 Oct 23 08:16	23° M 28'45		retrograde	11351 Sep 30 11:18	3° M 39'00	
min. Earth dist.	11350 Oct 31 10:07	19° M 53'54	0.54772 AU	evening set	11351 Oct 02 17:03	3° M 26'53	
inferior conj	11350 Nov 01 03:26	19° M 29'31	-5°37'24		11351 Oct 10 23:36	30° R A	
minimum elong	11350 Oct 31 21:57	19° M 37'15	5°36'19	inferior conj	11351 Oct 11 19:25	29° A 31'45	-4°31'27
morning rise	11350 Nov 09 13:06	15° M 42'25		minimum elong	11351 Oct 11 09:27	29° A 46'00	4°28'28
direct	11350 Nov 12 21:44	15° M 17'09		min. Earth dist.	11351 Oct 12 17:54	28° A 59'36	0.54640 AU
morning max el	11350 Nov 24 18:43	20° M 54'41	21°28'51	morning rise	11351 Oct 20 01:46	25° A 34'54	
	11350 Dec 02 06:09	0° J		direct	11351 Oct 24 06:00	24° A 57'26	
asc. node	11350 Dec 02 14:58	0° J 32'54			11351 Nov 04 22:22	0° M	
morning set	11350 Dec 15 02:19	23° J 37'29		morning max el	11351 Nov 06 09:29	1° M 18'18	23°12'49
	11350 Dec 18 02:57	0° Z		asc. node	11351 Nov 19 11:54	18° M 48'18	
superior conj	11350 Dec 22 07:42	8° Z 50'09	1°31'03		11351 Nov 25 12:07	0° J	
minimum elong	11350 Dec 22 09:33	8° Z 59'46	1°31'36	morning set	11351 Nov 29 13:45	8° J 24'56	
max. Earth dist.	11350 Dec 26 17:28	17° Z 50'06	1.35005 AU				
evening rise	11350 Dec 30 21:10	25° Z 55'08		superior conj	11351 Dec 06 12:08	23° J 22'31	1°38'09
	11351 Jan 02 01:38	0° \approx		minimum elong	11351 Dec 06 12:50	23° J 26'15	1°38'49
desc. node	11351 Jan 05 00:48	5° \approx 20'48		max. Earth dist.	11351 Dec 09 11:59	29° J 44'44	1.33400 AU
	11351 Jan 20 13:51	0° X			11351 Dec 09 14:53	0° Z	
evening max el	11351 Feb 04 03:16	17° X 38'51	26°38'45				

evening rise	11351 Dec 14 07:00	9° ♄ 32'22		evening rise	11352 Nov 27 02:46	23° ♄ 34'38	
desc. node	11351 Dec 22 21:45	25° ♄ 34'04		desc. node	11352 Nov 30 07:33	0° ♄	
	11351 Dec 25 12:09	0° ♄			11352 Dec 08 18:46	15° ♄ 27'05	
	11352 Jan 16 12:08	0° ♄			11352 Dec 18 04:36	0° ♄	
evening max el	11352 Jan 17 16:31	1° ♄ 09'43	27°18'56	evening max el	11352 Dec 30 03:45	14° ♄ 13'33	27°31'35
retrograde	11352 Jan 31 05:41	8° ♄ 33'59		retrograde	11353 Jan 12 22:54	21° ♄ 33'28	
evening set	11352 Feb 07 00:18	6° ♄ 01'50		evening set	11353 Jan 19 22:26	19° ♄ 09'24	
min. Earth dist.	11352 Feb 10 21:10	2° ♄ 27'30	0.64715 AU	min. Earth dist.	11353 Jan 23 16:18	16° ♄ 03'54	0.62846 AU
inferior conj	11352 Feb 13 06:39	29° ♄ 51'36	-0°42'51	inferior conj	11353 Jan 26 12:10	13° ♄ 19'09	-1°54'41
minimum elong	11352 Feb 13 07:56	29° ♄ 48'06	0°41'55	minimum elong	11353 Jan 26 15:58	13° ♄ 09'53	1°52'36
	11352 Feb 13 03:34	30° ♄		asc. node	11353 Feb 01 07:55	8° ♄ 38'39	
asc. node	11352 Feb 15 10:40	27° ♄ 35'21		morning rise	11353 Feb 02 11:51	8° ♄ 08'14	
morning rise	11352 Feb 19 17:18	24° ♄ 24'28		direct	11353 Feb 04 19:06	7° ♄ 43'27	
direct	11352 Feb 22 07:20	23° ♄ 49'43		morning max el	11353 Feb 11 10:13	11° ♄ 06'56	17°46'48
morning max el	11352 Feb 28 16:40	27° ♄ 09'35	17°54'29		11353 Feb 24 04:13	0° ♄	
	11352 Mar 02 05:41	0° ♄		morning set	11353 Feb 27 11:54	5° ♄ 47'22	
morning set	11352 Mar 17 02:20	23° ♄ 09'17		desc. node	11353 Mar 06 19:12	18° ♄ 26'17	
desc. node	11352 Mar 19 22:34	27° ♄ 52'47					
	11352 Mar 21 05:19	0° ♄		superior conj	11353 Mar 11 10:19	26° ♄ 13'55	-0°34'40
superior conj	11352 Mar 30 22:22	15° ♄ 46'02	-1°16'26	minimum elong	11353 Mar 11 06:48	25° ♄ 59'19	0°34'01
minimum elong	11352 Mar 30 14:17	15° ♄ 13'45	1°15'34		11353 Mar 13 17:06	0° ♄	
max. Earth dist.	11352 Apr 04 04:40	22° ♄ 31'16	1.45309 AU	max. Earth dist.	11353 Mar 17 22:35	6° ♄ 51'17	1.44208 AU
	11352 Apr 08 23:27	0° ♄		evening rise	11353 Mar 26 10:01	20° ♄ 10'14	
evening rise	11352 Apr 15 22:02	10° ♄ 43'04			11353 Apr 01 21:02	0° ♄	
	11352 Apr 28 15:44	0° ♄			11353 Apr 23 13:47	0° ♄	
greatest brilliancy	11352 Apr 30 15:09	2° ♄ 54'09	-0.6m	evening max el	11353 Apr 25 08:04	1° ♄ 52'34	21°01'36
evening max el	11352 May 12 08:38	18° ♄ 07'42	19°55'17	asc. node	11353 Apr 30 05:26	5° ♄ 48'06	
asc. node	11352 May 13 08:14	19° ♄ 04'41		retrograde	11353 May 03 20:24	6° ♄ 51'05	
retrograde	11352 May 19 21:43	22° ♄ 26'33		evening set	11353 May 08 02:13	5° ♄ 10'00	
evening set	11352 May 23 17:36	21° ♄ 01'31			11353 May 12 14:52	30° ♄	
inferior conj	11352 May 29 01:24	15° ♄ 02'05	3°15'57	inferior conj	11353 May 13 08:42	28° ♄ 58'25	3°07'18
minimum elong	11352 May 29 01:09	15° ♄ 02'56	3°15'17	minimum elong	11353 May 13 07:30	29° ♄ 02'35	3°06'36
min. Earth dist.	11352 May 30 01:19	13° ♄ 41'34	0.67642 AU	min. Earth dist.	11353 May 13 18:51	28° ♄ 23'14	0.68413 AU
morning rise	11352 Jun 03 08:22	8° ♄ 41'44		morning rise	11353 May 18 12:34	22° ♄ 42'02	
direct	11352 Jun 09 03:54	6° ♄ 07'02		direct	11353 May 23 19:23	20° ♄ 22'41	
desc. node	11352 Jun 15 23:19	8° ♄ 48'36		desc. node	11353 Jun 02 20:16	26° ♄ 08'24	
morning max el	11352 Jun 20 23:28	13° ♄ 12'19	24°58'15	morning max el	11353 Jun 03 09:19	26° ♄ 40'52	23°29'15
	11352 Jul 04 13:23	0° ♄			11353 Jun 06 11:04	0° ♄	
	11352 Jul 23 18:57	0° ♄			11353 Jun 28 03:14	0° ♄	
morning set	11352 Jul 26 21:36	5° ♄ 26'14		morning set	11353 Jul 08 08:49	16° ♄ 31'31	
max. Earth dist.	11352 Jul 30 11:36	11° ♄ 55'18	1.36893 AU	max. Earth dist.	11353 Jul 12 08:54	23° ♄ 23'39	1.39178 AU
					11353 Jul 16 02:13	0° ♄	
superior conj	11352 Aug 06 01:54	24° ♄ 29'09	-0°30'45	superior conj	11353 Jul 19 23:12	7° ♄ 06'34	-1°04'33
minimum elong	11352 Aug 06 03:54	24° ♄ 38'56	0°30'50	minimum elong	11353 Jul 20 03:40	7° ♄ 27'23	1°04'25
	11352 Aug 08 20:39	0° ♄		asc. node	11353 Jul 27 04:34	20° ♄ 53'59	
asc. node	11352 Aug 09 07:47	0° ♄ 55'46		evening rise	11353 Jul 29 06:43	24° ♄ 57'15	
evening rise	11352 Aug 14 09:40	11° ♄ 10'53			11353 Jul 31 21:35	0° ♄	
	11352 Aug 24 11:50	0° ♄		evening max el	11353 Aug 14 10:19	21° ♄ 08'47	18°43'26
evening max el	11352 Aug 31 11:15	9° ♄ 10'48	19°33'59	retrograde	11353 Aug 22 16:11	25° ♄ 16'31	
retrograde	11352 Sep 10 05:11	14° ♄ 01'47		evening set	11353 Aug 24 14:55	25° ♄ 03'31	
desc. node	11352 Sep 11 21:08	13° ♄ 53'54		desc. node	11353 Aug 29 18:30	22° ♄ 42'41	
evening set	11352 Sep 12 01:42	13° ♄ 52'02		inferior conj	11353 Sep 01 16:11	20° ♄ 40'17	-0°54'23
inferior conj	11352 Sep 20 20:16	9° ♄ 47'18	-2°46'10	minimum elong	11353 Sep 01 13:57	20° ♄ 44'24	0°53'41
minimum elong	11352 Sep 20 12:56	9° ♄ 58'55	2°43'24	min. Earth dist.	11353 Sep 04 19:35	18° ♄ 21'55	0.57049 AU
min. Earth dist.	11352 Sep 23 04:18	8° ♄ 18'42	0.55452 AU	morning rise	11353 Sep 09 09:36	15° ♄ 37'25	
morning rise	11352 Sep 28 22:03	5° ♄ 22'05		direct	11353 Sep 15 03:48	14° ♄ 16'22	
direct	11352 Oct 03 22:12	4° ♄ 26'14		morning max el	11353 Sep 29 10:40	21° ♄ 42'52	26°31'38
morning max el	11352 Oct 17 20:16	11° ♄ 23'43	24°59'38		11353 Oct 06 17:21	0° ♄	
	11352 Nov 01 00:01	0° ♄		asc. node	11353 Oct 23 05:34	27° ♄ 00'28	
asc. node	11352 Nov 05 08:46	7° ♄ 40'53			11353 Oct 24 17:41	0° ♄	
morning set	11352 Nov 13 01:29	23° ♄ 10'17		morning set	11353 Oct 28 11:51	7° ♄ 48'26	
	11352 Nov 16 04:56	0° ♄					
superior conj	11352 Nov 19 21:01	8° ♄ 05'12	1°38'51	superior conj	11353 Nov 04 08:14	22° ♄ 51'32	1°33'38
minimum elong	11352 Nov 19 20:34	8° ♄ 02'45	1°39'29	minimum elong	11353 Nov 04 06:50	22° ♄ 43'46	1°34'03
max. Earth dist.	11352 Nov 21 14:17	11° ♄ 51'15	1.32248 AU	max. Earth dist.	11353 Nov 04 21:47	24° ♄ 06'50	1.31569 AU
					11353 Nov 07 13:40	0° ♄	

evening rise	11353 Nov 11 05:41	7°♄54'14		superior conj	11354 Oct 19 19:56	7°♄35'53	1°22'47
	11353 Nov 22 17:52	0°♄		minimum elong	11354 Oct 19 17:54	7°♄24'33	1°22'54
desc. node	11353 Nov 25 15:53	4°♄51'26		max. Earth dist.	11354 Oct 19 06:56	6°♄23'33	1.31378 AU
evening max el	11353 Dec 12 10:17	26°♄37'02	27°11'35	evening rise	11354 Oct 26 13:25	22°♄24'56	
	11353 Dec 16 11:00	0°♄			11354 Oct 30 04:34	0°♄	
retrograde	11353 Dec 26 08:02	3°♄49'53		desc. node	11354 Nov 12 13:03	23°♄35'27	
evening set	11354 Jan 02 06:15	1°♄42'29			11354 Nov 17 03:21	0°♄	
	11354 Jan 04 17:51	30°♄♂		evening max el	11354 Nov 24 09:33	8°♄10'14	26°17'22
min. Earth dist.	11354 Jan 06 00:46	28°♄58'33	0.60766 AU	retrograde	11354 Dec 08 07:55	15°♄15'26	
inferior conj	11354 Jan 09 03:52	26°♄18'14	-3°11'55	evening set	11354 Dec 14 19:30	13°♄33'54	
minimum elong	11354 Jan 09 10:25	26°♄04'12	3°08'54	min. Earth dist.	11354 Dec 18 22:50	10°♄58'39	0.58638 AU
morning rise	11354 Jan 16 17:19	21°♄26'55		inferior conj	11354 Dec 22 02:08	8°♄38'45	-4°27'16
direct	11354 Jan 18 20:29	21°♄08'34		minimum elong	11354 Dec 22 10:22	8°♄23'26	4°24'18
asc. node	11354 Jan 19 05:07	21°♄09'06		morning rise	11354 Dec 30 03:57	4°♄09'27	
morning max el	11354 Jan 26 01:29	24°♄45'17	17°57'30	direct	11355 Jan 01 07:01	3°♄54'08	
	11354 Jan 30 08:59	0°♄		asc. node	11355 Jan 06 02:17	5°♄17'06	
morning set	11354 Feb 10 15:54	19°♄17'06		morning max el	11355 Jan 09 10:45	7°♄53'55	18°28'06
	11354 Feb 16 12:48	0°♄			11355 Jan 23 14:41	0°♄	
				morning set	11355 Jan 25 08:48	3°♄21'26	
superior conj	11354 Feb 20 23:09	7°♄52'25	0°05'24	superior conj	11355 Feb 03 09:45	20°♄31'21	0°39'17
minimum elong	11354 Feb 20 23:38	7°♄54'33	0°05'39	minimum elong	11355 Feb 03 12:18	20°♄43'08	0°39'23
behind sun begin	11354 Feb 20 16:01	7°♄21'11		desc. node	11355 Feb 08 12:36	29°♄45'57	
behind sun end	11354 Feb 21 07:15	8°♄27'49			11355 Feb 08 15:47	0°♄	
desc. node	11354 Feb 21 15:52	9°♄05'21		max. Earth dist.	11355 Feb 10 20:56	3°♄51'34	1.40456 AU
max. Earth dist.	11354 Feb 28 12:17	20°♄42'16	1.42525 AU	evening rise	11355 Feb 15 04:24	11°♄08'48	
evening rise	11354 Mar 06 09:19	0°♄12'48			11355 Feb 27 03:59	0°♄	
	11354 Mar 06 06:06	0°♄		evening max el	11355 Mar 21 17:11	29°♄26'15	23°38'09
	11354 Mar 26 10:15	0°♄			11355 Mar 22 06:55	0°♄	
evening max el	11354 Apr 08 02:21	15°♄38'27	22°17'37	retrograde	11355 Apr 01 12:31	5°♄48'34	
asc. node	11354 Apr 17 02:42	21°♄18'28		asc. node	11355 Apr 03 24:00	5°♄19'44	
retrograde	11354 Apr 17 17:48	21°♄20'23		evening set	11355 Apr 06 16:40	3°♄38'21	
evening set	11354 Apr 22 10:26	19°♄23'58			11355 Apr 10 00:25	30°♄♂	
inferior conj	11354 Apr 27 17:48	13°♄02'36	2°48'09	min. Earth dist.	11355 Apr 11 11:48	28°♄01'47	0.68577 AU
minimum elong	11354 Apr 27 15:56	13°♄09'07	2°47'21	inferior conj	11355 Apr 12 02:47	27°♄10'26	2°19'11
min. Earth dist.	11354 Apr 27 15:05	13°♄12'07	0.68719 AU	minimum elong	11355 Apr 12 00:37	27°♄17'52	2°18'21
morning rise	11354 May 02 21:18	6°♄51'32		morning rise	11355 Apr 17 08:33	21°♄05'55	
direct	11354 May 07 14:42	4°♄51'56		direct	11355 Apr 21 12:49	19°♄27'45	
morning max el	11354 May 16 21:49	10°♄18'14	22°00'51	morning max el	11355 Apr 29 16:00	24°♄05'54	20°40'32
desc. node	11354 May 20 17:08	14°♄29'09			11355 May 04 20:11	0°♄	
	11354 Jun 01 08:56	0°♄		desc. node	11355 May 07 13:56	3°♄33'43	
morning set	11354 Jun 18 18:29	26°♄27'49			11355 May 25 16:55	0°♄	
	11354 Jun 20 22:57	0°♄		morning set	11355 May 29 03:57	5°♄20'15	
max. Earth dist.	11354 Jun 24 09:01	5°♄38'21	1.41437 AU	max. Earth dist.	11355 Jun 06 15:16	18°♄44'38	1.43397 AU
superior conj	11354 Jul 02 02:22	18°♄53'34	-1°36'32	superior conj	11355 Jun 13 07:04	29°♄40'54	-2°01'37
minimum elong	11354 Jul 02 08:47	19°♄21'56	1°36'28	minimum elong	11355 Jun 13 12:59	0°♄05'42	2°01'56
	11354 Jul 08 06:22	0°♄			11355 Jun 13 11:38	0°♄	
evening rise	11354 Jul 12 16:53	8°♄11'48		evening rise	11355 Jun 25 11:38	20°♄42'54	
asc. node	11354 Jul 14 01:26	10°♄42'24		asc. node	11355 Jun 30 22:22	0°♄16'06	
	11354 Jul 25 13:09	0°♄			11355 Jun 30 18:39	0°♄	
evening max el	11354 Jul 28 18:12	3°♄45'33	18°13'48	evening max el	11355 Jul 12 06:58	16°♄51'21	18°03'55
retrograde	11354 Aug 04 22:10	7°♄23'12		retrograde	11355 Jul 18 20:06	20°♄13'39	
evening set	11354 Aug 07 03:46	7°♄02'41		evening set	11355 Jul 21 09:43	19°♄42'09	
inferior conj	11354 Aug 14 09:56	2°♄19'01	0°40'31	inferior conj	11355 Jul 27 23:10	14°♄39'01	1°50'46
minimum elong	11354 Aug 14 11:16	2°♄16'09	0°39'38	minimum elong	11355 Jul 28 01:49	14°♄32'26	1°49'26
desc. node	11354 Aug 16 15:49	0°♄22'12		min. Earth dist.	11355 Jul 31 01:11	11°♄36'13	0.61425 AU
	11354 Aug 17 02:17	30°♄♂		morning rise	11355 Aug 03 15:22	8°♄37'52	
min. Earth dist.	11354 Aug 17 18:05	29°♄27'07	0.59148 AU	desc. node	11355 Aug 03 13:06	8°♄41'46	
morning rise	11354 Aug 21 15:23	26°♄41'50		direct	11355 Aug 10 07:07	6°♄21'04	
direct	11354 Aug 27 23:29	24°♄51'37		morning max el	11355 Aug 24 12:30	14°♄21'20	27°57'21
	11354 Sep 08 09:52	0°♄			11355 Sep 06 03:41	0°♄	
morning max el	11354 Sep 11 08:15	2°♄39'32	27°33'24		11355 Sep 23 17:14	0°♄	
	11354 Oct 01 05:22	0°♄		morning set	11355 Sep 26 21:23	6°♄23'52	
asc. node	11354 Oct 10 02:20	16°♄39'40		asc. node	11355 Sep 26 23:05	6°♄32'39	
morning set	11354 Oct 12 19:07	22°♄14'40		max. Earth dist.	11355 Oct 02 14:00	18°♄31'35	1.31692 AU
	11354 Oct 16 09:34	0°♄					

superior conj	11355 Oct 04 06:17	22° Ω 12'55	1°06'30	superior conj	11356 Sep 17 13:16	6° Ω 35'58	0°45'01
minimum elong	11355 Oct 04 04:02	22° Ω 00'32	1°06'20	minimum elong	11356 Sep 17 11:20	6° Ω 25'35	0°44'40
	11355 Oct 07 18:47	0° \mathbb{M}		evening rise	11356 Sep 24 11:24	21° Ω 37'17	
evening rise	11355 Oct 10 23:59	7° \mathbb{M} 01'23			11356 Sep 28 11:46	0° \mathbb{M}	
	11355 Oct 22 20:02	0° \mathcal{A}		desc. node	11356 Oct 16 07:37	27° \mathbb{M} 53'45	
desc. node	11355 Oct 30 10:18	11° \mathcal{A} 23'35		evening max el	11356 Oct 17 11:21	29° \mathbb{M} 03'33	23°14'23
evening max el	11355 Nov 06 00:48	18° \mathcal{A} 53'47	24°53'58		11356 Oct 18 11:29	0° \mathcal{A}	
retrograde	11355 Nov 19 20:26	25° \mathcal{A} 49'26		retrograde	11356 Oct 30 19:41	5° \mathcal{A} 42'14	
evening set	11355 Nov 25 09:44	24° \mathcal{A} 40'19		evening set	11356 Nov 04 00:18	5° \mathcal{A} 04'05	
min. Earth dist.	11355 Nov 30 12:36	21° \mathcal{A} 56'11	0.56708 AU	min. Earth dist.	11356 Nov 10 20:57	1° \mathcal{A} 52'47	0.55273 AU
inferior conj	11355 Dec 03 04:21	20° \mathcal{A} 12'58	-5°26'39	inferior conj	11356 Nov 12 10:45	0° \mathcal{A} 57'54	-5°49'06
minimum elong	11355 Dec 03 10:43	20° \mathcal{A} 02'37	5°25'01	minimum elong	11356 Nov 12 10:10	0° \mathcal{A} 58'46	5°48'32
morning rise	11355 Dec 11 13:56	16° \mathcal{A} 05'23			11356 Nov 14 03:05	30° \mathbb{R} \mathbb{M}	
direct	11355 Dec 13 23:06	15° \mathcal{A} 49'26		morning rise	11356 Nov 20 21:43	27° \mathbb{M} 06'59	
morning max el	11355 Dec 23 10:02	20° \mathcal{A} 21'45	19°20'25	direct	11356 Nov 23 20:31	26° \mathbb{M} 46'10	
asc. node	11355 Dec 23 23:22	20° \mathcal{A} 54'44			11356 Dec 02 12:12	0° \mathcal{A}	
	11355 Dec 30 19:45	0° \mathcal{Z}		morning max el	11356 Dec 04 19:58	1° \mathcal{A} 58'26	20°35'44
morning set	11356 Jan 09 10:27	17° \mathcal{Z} 48'37		asc. node	11356 Dec 09 20:24	7° \mathcal{A} 45'37	
	11356 Jan 15 12:55	0° \approx			11356 Dec 22 12:39	0° \mathcal{Z}	
				morning set	11356 Dec 23 17:43	2° \mathcal{Z} 28'57	
superior conj	11356 Jan 17 13:18	3° \approx 57'16	1°05'27	superior conj	11356 Dec 31 05:17	17° \mathcal{Z} 56'51	1°23'49
minimum elong	11356 Jan 17 16:18	4° \approx 11'47	1°05'39	minimum elong	11356 Dec 31 07:42	18° \mathcal{Z} 09'09	1°24'15
max. Earth dist.	11356 Jan 24 02:59	16° \approx 20'09	1.38242 AU	max. Earth dist.	11357 Jan 05 11:03	28° \mathcal{Z} 21'25	1.36116 AU
desc. node	11356 Jan 26 09:24	20° \approx 24'41			11357 Jan 06 07:35	0° \approx	
evening rise	11356 Jan 27 20:54	23° \approx 00'52		evening rise	11357 Jan 09 08:16	5° \approx 40'56	
	11356 Jan 31 23:07	0° \mathcal{H}		desc. node	11357 Jan 12 06:16	10° \approx 57'13	
	11356 Feb 20 23:50	0° \mathcal{Y}			11357 Jan 23 19:34	0° \mathcal{H}	
evening max el	11356 Mar 03 06:45	13° \mathcal{Y} 16'50	24°56'38	evening max el	11357 Feb 13 20:22	27° \mathcal{H} 06'38	26°05'56
retrograde	11356 Mar 15 03:12	20° \mathcal{Y} 10'30			11357 Feb 17 01:40	0° \mathcal{Y}	
evening set	11356 Mar 20 19:20	17° \mathcal{Y} 48'45		retrograde	11357 Feb 26 12:57	4° \mathcal{Y} 20'13	
asc. node	11356 Mar 20 21:19	17° \mathcal{Y} 44'31		evening set	11357 Mar 04 16:47	1° \mathcal{Y} 50'14	
min. Earth dist.	11356 Mar 25 06:48	12° \mathcal{Y} 47'25	0.68009 AU		11357 Mar 06 15:27	30° \mathbb{R} \mathcal{H}	
inferior conj	11356 Mar 26 09:45	11° \mathcal{Y} 18'37	1°40'41	asc. node	11357 Mar 07 18:37	28° \mathcal{H} 44'47	
minimum elong	11356 Mar 26 07:44	11° \mathcal{Y} 25'15	1°39'57	min. Earth dist.	11357 Mar 08 21:46	27° \mathcal{H} 23'52	0.67030 AU
morning rise	11356 Mar 31 20:24	5° \mathcal{Y} 22'01		inferior conj	11357 Mar 10 12:43	25° \mathcal{H} 23'04	0°52'34
direct	11356 Apr 04 12:21	4° \mathcal{Y} 04'50		minimum elong	11357 Mar 10 11:27	25° \mathcal{H} 27'02	0°52'12
morning max el	11356 Apr 11 17:47	8° \mathcal{Y} 04'52	19°33'17	morning rise	11357 Mar 16 06:49	19° \mathcal{H} 36'16	
desc. node	11356 Apr 23 10:42	23° \mathcal{Y} 10'24		direct	11357 Mar 19 11:36	18° \mathcal{H} 38'03	
greatest brilliancy	11356 Apr 24 10:23	24° \mathcal{Y} 37'05	-0.7m	morning max el	11357 Mar 26 02:59	22° \mathcal{H} 12'45	18°41'45
	11356 Apr 28 01:13	0° \mathcal{B}			11357 Apr 01 12:00	0° \mathcal{Y}	
morning set	11356 May 07 03:25	13° \mathcal{B} 50'49		desc. node	11357 Apr 10 07:26	13° \mathcal{Y} 10'42	
	11356 May 17 12:45	0° \mathbb{I}		morning set	11357 Apr 16 16:09	23° \mathcal{Y} 06'32	
max. Earth dist.	11356 May 19 04:18	2° \mathbb{I} 35'56	1.44839 AU		11357 Apr 21 01:52	0° \mathcal{B}	
superior conj	11356 May 23 11:42	9° \mathbb{I} 27'13	-2°13'08	max. Earth dist.	11357 May 01 22:31	16° \mathcal{B} 58'20	1.45606 AU
minimum elong	11356 May 23 12:37	9° \mathbb{I} 30'51	2°13'44	superior conj	11357 May 02 22:10	18° \mathcal{B} 30'56	-2°05'19
	11356 Jun 05 00:44	0° \mathcal{E}		minimum elong	11357 May 02 15:39	18° \mathcal{B} 05'23	2°05'28
evening rise	11356 Jun 06 09:58	2° \mathcal{E} 19'06			11357 May 10 05:27	0° \mathbb{I}	
asc. node	11356 Jun 16 19:22	19° \mathcal{E} 28'55		evening rise	11357 May 18 08:26	12° \mathbb{I} 55'27	
	11356 Jun 24 14:30	0° \mathcal{Q}		greatest brilliancy	11357 May 25 13:06	24° \mathbb{I} 25'46	-0.9m
evening max el	11356 Jun 24 20:59	0° \mathcal{Q} 16'18	18°12'44		11357 May 29 02:12	0° \mathcal{E}	
retrograde	11356 Jul 01 05:33	3° \mathcal{Q} 37'48		asc. node	11357 Jun 03 16:26	8° \mathcal{E} 13'52	
evening set	11356 Jul 04 03:18	2° \mathcal{Q} 52'45		evening max el	11357 Jun 08 09:13	13° \mathcal{E} 52'49	18°39'27
	11356 Jul 07 20:21	30° \mathbb{R} \mathcal{E}		retrograde	11357 Jun 14 22:32	17° \mathcal{E} 27'14	
inferior conj	11356 Jul 10 03:47	27° \mathcal{E} 31'42	2°37'32	evening set	11357 Jun 18 04:29	16° \mathcal{E} 27'08	
minimum elong	11356 Jul 10 06:14	27° \mathcal{E} 24'51	2°36'21	inferior conj	11357 Jun 23 19:51	10° \mathcal{E} 49'47	3°04'35
min. Earth dist.	11356 Jul 12 17:29	24° \mathcal{E} 40'03	0.63606 AU	minimum elong	11357 Jun 23 21:22	10° \mathcal{E} 45'07	3°03'41
morning rise	11356 Jul 16 07:37	21° \mathcal{E} 16'50		min. Earth dist.	11357 Jun 25 18:50	8° \mathcal{E} 26'05	0.65495 AU
desc. node	11356 Jul 20 10:21	19° \mathcal{E} 04'02		morning rise	11357 Jun 29 13:25	4° \mathcal{E} 28'54	
direct	11356 Jul 23 00:02	18° \mathcal{E} 41'47		direct	11357 Jul 06 00:39	1° \mathcal{E} 46'15	
morning max el	11356 Aug 05 21:11	26° \mathcal{E} 43'46	27°43'27	desc. node	11357 Jul 07 07:31	1° \mathcal{E} 52'00	
	11356 Aug 08 22:35	0° \mathcal{Q}		morning max el	11357 Jul 19 07:58	9° \mathcal{E} 37'58	26°56'58
	11356 Aug 29 19:12	0° \mathbb{M}			11357 Aug 04 07:51	0° \mathcal{Q}	
morning set	11356 Sep 09 16:15	20° \mathbb{M} 08'56			11357 Aug 22 06:06	0° \mathbb{M}	
asc. node	11356 Sep 12 19:49	26° \mathbb{M} 33'47		morning set	11357 Aug 24 00:54	3° \mathbb{M} 22'57	
	11356 Sep 14 11:13	0° \mathcal{Q}		max. Earth dist.	11357 Aug 28 07:19	11° \mathbb{M} 46'53	1.33864 AU
max. Earth dist.	11356 Sep 14 15:09	0° \mathcal{Q} 20'47	1.32522 AU				

asc. node	11357 Aug 30 16:34	16° \cap 39'07			11358 Jul 28 15:30	0° Ω	
				morning set	11358 Aug 06 19:35	15° Ω 56'08	
superior conj	11357 Sep 01 14:42	20° \cap 39'12	0°18'40	max. Earth dist.	11358 Aug 10 13:04	22° Ω 53'55	1.35674 AU
minimum elong	11357 Sep 01 13:44	20° \cap 34'12	0°18'18		11358 Aug 14 04:47	0° \cap	
	11357 Sep 06 00:30	0° $\underline{\Omega}$					
evening rise	11357 Sep 08 21:47	6° $\underline{\Omega}$ 07'33		superior conj	11358 Aug 16 07:53	4° \cap 15'13	-0°11'51
	11357 Sep 21 17:07	0° \cap		minimum elong	11358 Aug 16 08:36	4° \cap 18'53	0°12'03
evening max el	11357 Sep 29 01:46	9° \cap 14'09	21°36'04	behind sun begin	11358 Aug 16 04:28	3° \cap 58'02	
desc. node	11357 Oct 03 04:55	12° \cap 38'51		behind sun end	11358 Aug 16 12:44	4° \cap 39'46	
retrograde	11357 Oct 11 08:54	15° \cap 20'57		asc. node	11358 Aug 17 13:20	6° \cap 44'21	
evening set	11357 Oct 14 04:16	15° \cap 03'01		evening rise	11358 Aug 24 05:01	20° \cap 25'48	
inferior conj	11357 Oct 23 04:12	11° \cap 07'00	-5°16'00		11358 Aug 28 23:42	0° $\underline{\Omega}$	
minimum elong	11357 Oct 22 19:54	11° \cap 18'37	5°14'04	evening max el	11358 Sep 11 04:06	19° $\underline{\Omega}$ 58'44	20°12'42
min. Earth dist.	11357 Oct 23 03:36	11° \cap 07'51	0.54609 AU	desc. node	11358 Sep 20 02:15	25° $\underline{\Omega}$ 10'07	
morning rise	11357 Oct 31 12:36	7° \cap 18'44		retrograde	11358 Sep 21 21:51	25° $\underline{\Omega}$ 18'59	
direct	11357 Nov 04 05:38	6° \cap 48'54		evening set	11358 Sep 23 21:33	25° $\underline{\Omega}$ 08'49	
morning max el	11357 Nov 16 16:27	12° \cap 44'26	22°11'40	inferior conj	11358 Oct 02 22:14	21° $\underline{\Omega}$ 10'42	-3°49'42
asc. node	11357 Nov 26 17:22	25° \cap 34'01		minimum elong	11358 Oct 02 12:43	21° $\underline{\Omega}$ 24'49	3°46'27
	11357 Nov 29 08:43	0° \propto		min. Earth dist.	11358 Oct 04 12:10	20° $\underline{\Omega}$ 14'28	0.54870 AU
morning set	11357 Dec 08 04:12	17° \propto 15'32		morning rise	11358 Oct 11 02:57	17° $\underline{\Omega}$ 03'40	
	11357 Dec 14 03:40	0° Ξ		direct	11358 Oct 15 15:24	16° $\underline{\Omega}$ 19'31	
				morning max el	11358 Oct 29 04:38	22° $\underline{\Omega}$ 56'54	23°59'01
superior conj	11357 Dec 15 06:02	2° Ξ 19'46	1°34'52		11358 Nov 04 11:09	0° \cap	
minimum elong	11357 Dec 15 07:24	2° Ξ 27'00	1°35'30	asc. node	11358 Nov 13 14:16	14° \cap 06'29	
max. Earth dist.	11357 Dec 19 01:16	10° Ξ 14'20	1.34277 AU		11358 Nov 21 16:48	0° \propto	
evening rise	11357 Dec 23 10:54	18° Ξ 59'38		morning set	11358 Nov 22 15:59	2° \propto 03'05	
	11357 Dec 29 09:18	0° \approx					
desc. node	11357 Dec 30 03:10	1° \approx 18'58		superior conj	11358 Nov 29 12:40	16° \propto 57'49	1°39'12
	11358 Jan 17 22:35	0° \propto		minimum elong	11358 Nov 29 12:52	16° \propto 58'53	1°39'53
evening max el	11358 Jan 27 09:53	10° \propto 46'57	26°58'44	max. Earth dist.	11358 Dec 01 23:14	22° \propto 13'44	1.32849 AU
retrograde	11358 Feb 09 16:55	18° \propto 09'57			11358 Dec 05 16:10	0° Ξ	
evening set	11358 Feb 16 07:05	15° \propto 36'30		evening rise	11358 Dec 07 01:19	2° Ξ 48'34	
min. Earth dist.	11358 Feb 20 06:32	11° \propto 44'04	0.65664 AU	desc. node	11358 Dec 17 00:07	21° Ξ 24'37	
inferior conj	11358 Feb 22 09:28	9° \propto 18'19	-0°05'16		11358 Dec 22 05:11	0° \approx	
minimum elong	11358 Feb 22 09:36	9° \propto 17'55	0°04'55	evening max el	11359 Jan 09 22:20	24° \approx 07'27	27°27'56
transit middle	11358 Feb 22 09:36	9° \propto 17'55	0°04'55		11359 Jan 17 19:45	0° \propto	
transit begin	11358 Feb 22 06:46	9° \propto 26'04		retrograde	11359 Jan 23 14:34	1° \propto 31'09	
transit end	11358 Feb 22 12:26	9° \propto 09'47			11359 Jan 28 23:41	30° \approx	
asc. node	11358 Feb 22 15:55	8° \propto 59'50		evening set	11359 Jan 30 11:59	29° \approx 01'03	
morning rise	11358 Feb 28 13:27	3° \propto 43'29		min. Earth dist.	11359 Feb 03 07:07	25° \approx 39'53	0.63954 AU
direct	11358 Mar 03 08:25	3° \propto 01'14		inferior conj	11359 Feb 05 21:25	22° \approx 58'26	-1°12'24
morning max el	11358 Mar 09 17:43	6° \propto 23'05	18°06'52	minimum elong	11359 Feb 05 23:42	22° \approx 52'29	1°10'59
	11358 Mar 26 00:57	0° Υ		asc. node	11359 Feb 09 13:10	19° \approx 29'38	
morning set	11358 Mar 28 08:21	3° Υ 44'53		morning rise	11359 Feb 12 13:28	17° \approx 38'09	
desc. node	11358 Mar 28 04:07	3° Υ 27'44		direct	11359 Feb 15 00:18	17° \approx 08'11	
				morning max el	11359 Feb 21 11:12	20° \approx 28'19	17°49'04
superior conj	11358 Apr 12 05:59	27° Υ 34'37	-1°38'09		11359 Feb 28 16:57	0° \propto	
minimum elong	11358 Apr 11 20:34	26° Υ 57'37	1°37'29	morning set	11359 Mar 10 04:28	15° \propto 44'37	
	11358 Apr 13 19:01	0° \propto		desc. node	11359 Mar 15 00:48	23° \propto 56'41	
max. Earth dist.	11358 Apr 14 18:38	1° \propto 32'31	1.45630 AU		11359 Mar 18 15:59	0° Υ	
evening rise	11358 Apr 28 08:40	22° \propto 40'09					
	11358 May 03 02:27	0° Π		superior conj	11359 Mar 23 04:46	7° Υ 25'07	-0°58'57
greatest brilliancy	11358 May 10 20:20	11° Π 49'06	-0.7m	minimum elong	11359 Mar 22 22:29	6° Υ 59'40	0°58'07
asc. node	11358 May 21 13:32	26° Π 21'08		max. Earth dist.	11359 Mar 28 13:35	16° Υ 00'44	1.44919 AU
evening max el	11358 May 22 17:17	27° Π 34'20	19°23'06		11359 Apr 06 12:52	0° \propto	
	11358 May 25 13:08	0° Ξ		evening rise	11359 Apr 07 20:43	2° \propto 02'16	
retrograde	11358 May 29 19:42	1° Ξ 34'14			11359 Apr 26 17:22	0° Π	
evening set	11358 Jun 02 10:15	0° Ξ 18'22		evening max el	11359 May 05 19:55	11° Π 18'13	20°21'57
	11358 Jun 02 20:12	30° \approx Π		asc. node	11359 May 08 10:42	13° Π 39'13	
inferior conj	11358 Jun 07 19:56	24° Π 26'19	3°15'40	retrograde	11359 May 13 18:27	15° Π 53'39	
minimum elong	11358 Jun 07 20:19	24° Π 25'05	3°14'57	evening set	11359 May 17 18:22	14° Π 21'52	
min. Earth dist.	11358 Jun 09 04:01	22° Π 41'08	0.66984 AU	inferior conj	11359 May 23 01:18	8° Π 16'51	3°13'38
morning rise	11358 Jun 13 05:56	18° Π 04'37		minimum elong	11359 May 23 00:37	8° Π 19'11	3°12'57
direct	11358 Jun 19 07:52	15° Π 24'35		min. Earth dist.	11359 May 23 19:15	7° Π 15'23	0.68026 AU
desc. node	11358 Jun 24 04:37	16° Π 47'24		morning rise	11359 May 28 06:36	1° Π 57'40	
morning max el	11358 Jul 01 18:38	22° Π 51'43	25°46'09		11359 May 31 06:09	30° \approx \propto	
	11358 Jul 08 01:42	0° Ξ		direct	11359 Jun 02 20:45	29° \propto 28'47	

	11359 Jun 05 15:29	0°♂		morning rise	11360 May 11 13:01	16°♂02'31	
desc. node	11359 Jun 11 01:39	3°♂22'06		direct	11360 May 16 14:11	13°♂50'57	
morning max el	11359 Jun 14 04:25	6°♂15'57	24°20'47	morning max el	11360 May 26 14:52	19°♂47'23	22°50'56
	11359 Jul 02 14:09	0°♂		desc. node	11360 May 27 22:35	21°♂09'59	
morning set	11359 Jul 19 19:46	27°♂37'11			11360 Jun 04 06:20	0°♂	
	11359 Jul 21 04:27	0°♂			11360 Jun 24 18:25	0°♂	
max. Earth dist.	11359 Jul 23 11:10	4°♂03'28	1.37845 AU	morning set	11360 Jun 29 20:28	8°♂13'51	
				max. Earth dist.	11360 Jul 04 08:35	15°♂47'46	1.40157 AU
superior conj	11359 Jul 30 13:33	17°♂16'23	-0°45'05				
minimum elong	11359 Jul 30 16:35	17°♂30'57	0°45'04	superior conj	11360 Jul 12 03:45	29°♂33'55	-1°18'36
asc. node	11359 Aug 04 10:06	26°♂45'56		minimum elong	11360 Jul 12 09:12	29°♂58'44	1°18'28
	11359 Aug 06 01:11	0°♂			11360 Jul 12 09:29	0°♂	
evening rise	11359 Aug 08 06:37	4°♂25'37		asc. node	11360 Jul 21 06:55	16°♂40'25	
	11359 Aug 23 10:26	0°♂		evening rise	11360 Jul 21 23:33	17°♂59'32	
evening max el	11359 Aug 24 20:21	1°♂30'34	19°09'55		11360 Jul 28 10:37	0°♂	
retrograde	11359 Sep 02 22:08	6°♂01'54		evening max el	11360 Aug 06 23:49	13°♂46'49	18°28'25
evening set	11359 Sep 04 18:28	5°♂51'26		retrograde	11360 Aug 14 17:05	17°♂39'29	
desc. node	11359 Sep 06 23:36	5°♂13'19		evening set	11360 Aug 16 18:36	17°♂23'42	
inferior conj	11359 Sep 13 06:22	1°♂39'50	-1°57'47	desc. node	11360 Aug 23 20:58	13°♂20'52	
minimum elong	11359 Sep 13 01:13	1°♂48'31	1°55'49	inferior conj	11360 Aug 24 11:39	12°♂52'03	-0°11'20
	11359 Sep 15 17:37	30°♂		minimum elong	11360 Aug 24 11:12	12°♂52'56	0°11'26
min. Earth dist.	11359 Sep 16 00:44	29°♂48'18	0.56041 AU	transit middle	11360 Aug 24 11:12	12°♂52'56	0°11'26
morning rise	11359 Sep 21 05:02	26°♂58'32		transit begin	11360 Aug 24 08:41	12°♂57'54	
direct	11359 Sep 26 13:09	25°♂52'32		transit end	11360 Aug 24 13:43	12°♂47'57	
	11359 Oct 07 01:54	0°♂		min. Earth dist.	11360 Aug 27 18:52	10°♂16'50	0.57901 AU
morning max el	11359 Oct 10 16:17	3°♂04'23	25°41'42	morning rise	11360 Sep 01 00:18	7°♂33'53	
	11359 Oct 29 18:15	0°♂		direct	11360 Sep 07 01:25	6°♂00'15	
asc. node	11359 Oct 31 11:06	3°♂11'14		morning max el	11360 Sep 21 09:23	13°♂36'46	27°02'14
morning set	11359 Nov 07 03:20	16°♂45'40			11360 Oct 04 10:09	0°♂	
	11359 Nov 13 04:13	0°♂		asc. node	11360 Oct 17 07:55	22°♂39'49	
					11360 Oct 20 21:41	0°♂	
superior conj	11359 Nov 13 22:48	1°♂42'51	1°37'21	morning set	11360 Oct 21 12:36	1°♂18'58	
minimum elong	11359 Nov 13 21:55	1°♂37'59	1°37'54				
max. Earth dist.	11359 Nov 15 03:54	4°♂23'35	1.31891 AU	superior conj	11360 Oct 28 10:27	16°♂28'54	1°29'43
evening rise	11359 Nov 21 00:25	16°♂58'56		minimum elong	11360 Oct 28 08:45	16°♂19'21	1°30'00
	11359 Nov 27 14:19	0°♂		max. Earth dist.	11360 Oct 28 12:30	16°♂40'17	1.31426 AU
desc. node	11359 Dec 03 21:09	11°♂06'24			11360 Nov 03 13:56	0°♂	
	11359 Dec 16 22:55	0°♂		evening rise	11360 Nov 04 05:41	1°♂24'04	
evening max el	11359 Dec 23 07:49	6°♂55'29	27°27'18	desc. node	11360 Nov 19 18:17	0°♂14'51	
retrograde	11360 Jan 06 04:50	14°♂13'22			11360 Nov 19 14:30	0°♂	
evening set	11360 Jan 13 04:32	11°♂55'14		evening max el	11360 Dec 04 11:47	18°♂59'00	26°52'41
min. Earth dist.	11360 Jan 16 21:58	8°♂59'57	0.61976 AU	retrograde	11360 Dec 18 10:10	26°♂08'06	
inferior conj	11360 Jan 19 21:30	6°♂15'02	-2°27'06	evening set	11360 Dec 25 04:59	24°♂11'04	
minimum elong	11360 Jan 20 02:29	6°♂03'29	2°24'33	min. Earth dist.	11360 Dec 29 02:08	21°♂32'22	0.59856 AU
morning rise	11360 Jan 27 03:04	1°♂12'05		inferior conj	11361 Jan 01 06:14	18°♂58'57	-3°44'46
asc. node	11360 Jan 27 10:25	1°♂06'36		minimum elong	11361 Jan 01 13:44	18°♂43'46	3°41'36
direct	11360 Jan 29 08:02	0°♂50'36		morning rise	11361 Jan 09 01:15	14°♂16'23	
morning max el	11360 Feb 05 04:14	4°♂18'53	17°48'58	direct	11361 Jan 11 03:45	13°♂59'43	
morning set	11360 Feb 20 22:39	28°♂46'43		asc. node	11361 Jan 13 07:37	14°♂18'04	
	11360 Feb 21 15:04	0°♂		morning max el	11361 Jan 18 17:21	17°♂45'19	18°07'52
desc. node	11360 Feb 29 21:27	14°♂32'44			11361 Jan 27 11:12	0°♂	
				morning set	11361 Feb 03 08:45	12°♂32'51	
superior conj	11360 Mar 03 03:24	18°♂23'16	-0°17'08		11361 Feb 12 19:39	0°♂	
minimum elong	11360 Mar 03 01:47	18°♂16'25	0°16'41				
max. Earth dist.	11360 Mar 10 05:21	0°♂07'50	1.43555 AU	superior conj	11361 Feb 13 01:59	0°♂28'24	0°20'40
	11360 Mar 10 03:25	0°♂		minimum elong	11361 Feb 13 03:35	0°♂35'33	0°20'48
evening rise	11360 Mar 17 11:57	11°♂40'41		desc. node	11361 Feb 15 18:09	5°♂12'30	
	11360 Mar 29 15:11	0°♂		max. Earth dist.	11361 Feb 20 16:58	13°♂42'12	1.41688 AU
evening max el	11360 Apr 17 17:03	25°♂03'25	21°33'05	evening rise	11361 Feb 25 19:08	22°♂04'56	
asc. node	11360 Apr 24 07:56	29°♂53'26			11361 Mar 02 19:11	0°♂	
	11360 Apr 24 15:33	0°♂			11361 Mar 23 18:21	0°♂	
retrograde	11360 Apr 26 16:47	0°♂20'26		evening max el	11361 Mar 31 09:46	8°♂50'17	22°51'47
	11360 Apr 28 15:47	30°♂		retrograde	11361 Apr 10 13:04	14°♂49'28	
evening set	11360 May 01 03:01	28°♂32'57		asc. node	11361 Apr 11 05:13	14°♂47'18	
inferior conj	11360 May 06 09:39	22°♂17'00	3°00'23	evening set	11361 Apr 15 10:34	12°♂47'03	
minimum elong	11360 May 06 08:08	22°♂22'19	2°59'39	inferior conj	11361 Apr 20 18:56	6°♂22'44	2°37'02
min. Earth dist.	11360 May 06 14:19	22°♂00'44	0.68600 AU	minimum elong	11361 Apr 20 16:53	6°♂29'50	2°36'12

min. Earth dist.	11361 Apr 20 10:59	6°♄50'17	0.68718 AU	evening set	11362 Mar 30 15:30	27°♄00'42	
morning rise	11361 Apr 25 23:05	0°♄14'23		min. Earth dist.	11362 Apr 04 07:08	21°♄39'28	0.68393 AU
	11361 Apr 26 06:14	30°♄♂		inferior conj	11362 Apr 05 03:17	20°♄31'25	2°04'03
direct	11361 Apr 30 10:56	28°♄23'38		minimum elong	11362 Apr 05 01:07	20°♄38'43	2°03'13
	11361 May 05 01:54	0°♄		morning rise	11362 Apr 10 10:51	14°♄30'21	
morning max el	11361 May 09 05:18	3°♄27'58	21°25'15	direct	11362 Apr 14 09:47	13°♄01'19	
desc. node	11361 May 14 19:27	9°♄50'42		morning max el	11362 Apr 22 02:44	17°♄21'19	20°10'10
	11361 May 29 06:17	0°♄		desc. node	11362 May 01 16:15	29°♄10'22	
morning set	11361 Jun 09 18:58	17°♄39'42			11362 May 02 06:27	0°♄	
max. Earth dist.	11361 Jun 16 11:24	28°♄25'45	1.42327 AU	morning set	11362 May 19 21:45	26°♄16'10	
	11361 Jun 17 10:17	0°♄			11362 May 22 07:36	0°♄	
				max. Earth dist.	11362 May 29 21:18	11°♄55'13	1.44090 AU
superior conj	11361 Jun 23 21:49	10°♄56'22	-1°48'24				
minimum elong	11361 Jun 24 04:29	11°♄25'05	1°48'28	superior conj	11362 Jun 04 16:10	21°♄16'59	-2°08'34
	11361 Jul 04 15:14	0°♄		minimum elong	11362 Jun 04 20:34	21°♄35'00	2°09'03
evening rise	11361 Jul 05 03:44	0°♄56'42			11362 Jun 09 22:11	0°♄	
asc. node	11361 Jul 08 03:49	6°♄22'54		evening rise	11362 Jun 17 14:26	13°♄06'08	
evening max el	11361 Jul 21 10:17	26°♄36'56	18°07'14	asc. node	11362 Jun 25 00:46	25°♄48'31	
	11361 Jul 27 02:42	0°♄			11362 Jun 27 14:39	0°♄	
retrograde	11361 Jul 28 06:26	0°♄06'05		evening max el	11362 Jul 04 23:56	9°♄51'30	18°05'20
	11361 Jul 29 10:24	30°♄♂		retrograde	11362 Jul 11 09:59	13°♄12'01	
evening set	11361 Jul 30 15:32	29°♄41'08		evening set	11362 Jul 14 03:01	12°♄35'00	
inferior conj	11361 Aug 06 14:07	24°♄48'40	1°13'23	inferior conj	11362 Jul 20 10:27	7°♄23'42	2°13'17
minimum elong	11361 Aug 06 16:15	24°♄43'46	1°12'12	minimum elong	11362 Jul 20 13:08	7°♄16'38	2°11'58
min. Earth dist.	11361 Aug 09 20:35	21°♄49'39	0.60117 AU	min. Earth dist.	11362 Jul 23 07:34	4°♄23'22	0.62379 AU
desc. node	11361 Aug 10 18:18	21°♄03'32		morning rise	11362 Jul 26 21:09	1°♄15'21	
morning rise	11361 Aug 13 13:58	19°♄00'15		desc. node	11362 Jul 28 15:35	0°♄08'19	
direct	11361 Aug 20 02:14	16°♄58'16			11362 Jul 28 21:56	30°♄♂	
morning max el	11361 Sep 03 09:51	24°♄51'32	27°48'25	direct	11362 Aug 02 13:46	28°♄49'53	
	11361 Sep 08 02:56	0°♄			11362 Aug 07 12:54	0°♄	
	11361 Sep 27 19:26	0°♄		morning max el	11362 Aug 16 16:33	6°♄52'10	27°55'52
asc. node	11361 Oct 04 04:41	12°♄25'03			11362 Sep 03 07:19	0°♄	
morning set	11361 Oct 05 17:58	15°♄37'53		morning set	11362 Sep 19 17:23	29°♄37'19	
max. Earth dist.	11361 Oct 11 21:21	28°♄54'34	1.31455 AU		11362 Sep 19 21:50	0°♄	
	11361 Oct 12 09:10	0°♄		asc. node	11362 Sep 21 01:25	2°♄21'47	
				max. Earth dist.	11362 Sep 25 02:31	10°♄56'05	1.31985 AU
superior conj	11361 Oct 12 21:47	1°♄10'03	1°16'31				
minimum elong	11361 Oct 12 19:36	0°♄57'56	1°16'31	superior conj	11362 Sep 27 06:55	15°♄41'13	0°58'00
evening rise	11361 Oct 19 14:52	15°♄57'27		minimum elong	11362 Sep 27 04:44	15°♄29'16	0°57'44
	11361 Oct 26 12:09	0°♄			11362 Oct 03 19:44	0°♄	
desc. node	11361 Nov 06 15:30	18°♄36'47		evening rise	11362 Oct 04 02:00	0°♄33'49	
	11361 Nov 16 03:29	0°♄			11362 Oct 20 02:19	0°♄	
evening max el	11361 Nov 16 07:40	0°♄09'59	25°44'51	desc. node	11362 Oct 24 12:46	5°♄54'20	
retrograde	11361 Nov 30 05:01	7°♄10'44		evening max el	11362 Oct 28 19:53	10°♄34'25	24°12'25
evening set	11361 Dec 06 08:50	5°♄42'32		retrograde	11362 Nov 11 11:58	17°♄24'48	
min. Earth dist.	11361 Dec 10 20:06	3°♄06'01	0.57778 AU	evening set	11362 Nov 16 12:30	16°♄29'19	
inferior conj	11361 Dec 13 20:10	1°♄00'09	-4°55'30	min. Earth dist.	11362 Nov 22 06:46	13°♄35'56	0.56015 AU
minimum elong	11361 Dec 14 04:11	0°♄46'05	4°52'59	inferior conj	11362 Nov 24 13:28	12°♄11'58	-5°42'05
	11361 Dec 15 06:57	30°♄♂		minimum elong	11362 Nov 24 17:27	12°♄05'50	5°41'06
morning rise	11361 Dec 22 01:59	26°♄40'15		morning rise	11362 Dec 03 00:27	8°♄13'02	
direct	11361 Dec 24 07:00	26°♄24'59		direct	11362 Dec 05 14:34	7°♄55'36	
asc. node	11361 Dec 31 04:45	29°♄05'22		morning max el	11362 Dec 15 16:40	12°♄43'47	19°49'52
	11362 Jan 01 06:49	0°♄		asc. node	11362 Dec 18 01:50	15°♄15'49	
morning max el	11362 Jan 01 22:46	0°♄37'13	18°47'39		11362 Dec 27 14:51	0°♄	
morning set	11362 Jan 18 05:51	26°♄48'27		morning set	11363 Jan 02 10:11	11°♄21'51	
	11362 Jan 19 21:00	0°♄					
superior conj	11362 Jan 26 20:26	13°♄29'10	0°51'21	superior conj	11363 Jan 10 05:47	27°♄10'50	1°14'10
minimum elong	11362 Jan 26 23:20	13°♄42'51	0°51'28	minimum elong	11363 Jan 10 08:36	27°♄24'52	1°14'28
desc. node	11362 Feb 02 14:55	25°♄52'43			11363 Jan 11 16:05	0°♄	
max. Earth dist.	11362 Feb 03 00:41	26°♄35'54	1.39519 AU	max. Earth dist.	11363 Jan 16 06:54	8°♄50'10	1.37303 AU
	11362 Feb 04 23:28	0°♄		evening rise	11363 Jan 20 00:20	15°♄38'24	
evening rise	11362 Feb 06 23:29	3°♄25'22		desc. node	11363 Jan 20 11:42	16°♄29'03	
	11362 Feb 23 23:54	0°♄			11363 Jan 28 11:01	0°♄	
evening max el	11362 Mar 13 23:55	22°♄39'56	24°12'08	evening max el	11363 Feb 24 13:10	6°♄30'04	25°27'36
retrograde	11362 Mar 25 06:07	29°♄16'23		retrograde	11363 Mar 08 18:55	13°♄34'16	
asc. node	11362 Mar 29 02:31	28°♄08'19		evening set	11363 Mar 14 16:10	11°♄08'12	

asc. node	11363 Mar 15 23:50	9°Υ54'24		min. Earth dist.	11364 Mar 01 13:19	20°✠52'15	0.66490 AU
min. Earth dist.	11363 Mar 19 00:37	6°Υ22'00	0.67640 AU	asc. node	11364 Mar 01 21:08	20°✠29'01	
inferior conj	11363 Mar 20 08:47	4°Υ38'28	1°21'29	inferior conj	11364 Mar 03 09:23	18°✠39'43	0°29'14
minimum elong	11363 Mar 20 07:00	4°Υ44'12	1°20'51	minimum elong	11364 Mar 03 08:37	18°✠42'02	0°29'07
	11363 Mar 24 09:10	30°✠		morning rise	11364 Mar 09 07:23	12°✠57'37	
morning rise	11363 Mar 25 22:18	28°✠46'00		direct	11364 Mar 12 07:43	12°✠06'44	
direct	11363 Mar 29 09:17	27°✠37'24		morning max el	11364 Mar 18 19:43	15°✠34'54	18°24'48
	11363 Apr 03 18:09	0°Υ			11364 Mar 29 14:16	0°Υ	
morning max el	11363 Apr 05 07:55	1°Υ25'14	19°09'24	desc. node	11364 Apr 04 09:41	9°Υ05'59	
greatest brilliancy	11363 Apr 18 08:42	18°Υ41'50	-0.7m	morning set	11364 Apr 07 23:41	14°Υ47'01	
desc. node	11363 Apr 18 13:00	18°Υ57'56			11364 Apr 17 14:53	0°✠	
	11363 Apr 25 18:45	0°✠					
morning set	11363 Apr 29 00:10	4°✠58'32		superior conj	11364 Apr 23 18:50	9°✠39'17	-1°55'52
max. Earth dist.	11363 May 12 12:34	26°✠00'48	1.45254 AU	minimum elong	11364 Apr 23 10:12	9°✠05'35	1°55'39
				max. Earth dist.	11364 Apr 24 07:20	10°✠28'07	1.45709 AU
superior conj	11363 May 15 11:44	0°Π41'15	-2°12'21		11364 May 06 18:49	0°Π	
minimum elong	11363 May 15 09:24	0°Π32'02	2°12'53	evening rise	11364 May 09 15:09	4°Π28'49	
	11363 May 15 01:18	0°Π		greatest brilliancy	11364 May 19 08:19	19°Π43'24	-0.8m
evening rise	11363 May 30 02:52	24°Π17'02			11364 May 26 06:23	0°✠	
	11363 Jun 02 14:20	0°✠		asc. node	11364 May 28 18:50	3°✠20'53	
asc. node	11363 Jun 11 21:47	14°✠50'29		evening max el	11364 Jun 01 00:08	7°✠01'17	18°56'04
evening max el	11363 Jun 18 13:25	23°✠21'46	18°21'55	retrograde	11364 Jun 07 18:07	10°✠45'02	
retrograde	11363 Jun 24 23:08	26°✠47'30		evening set	11364 Jun 11 03:38	9°✠38'25	
evening set	11363 Jun 28 00:13	25°✠56'22		inferior conj	11364 Jun 16 16:14	3°✠54'55	3°11'01
inferior conj	11363 Jul 03 20:24	20°✠28'13	2°51'10	minimum elong	11364 Jun 16 17:16	3°✠51'38	3°10'13
minimum elong	11363 Jul 03 22:30	20°✠22'04	2°50'07	min. Earth dist.	11364 Jun 18 08:56	1°✠46'19	0.66184 AU
min. Earth dist.	11363 Jul 06 04:00	17°✠46'30	0.64451 AU		11364 Jun 19 20:25	30°✠Π	
morning rise	11363 Jul 09 19:31	14°✠09'41		morning rise	11364 Jun 22 06:14	27°Π33'09	
desc. node	11363 Jul 15 12:47	11°✠32'40		direct	11364 Jun 28 14:02	24°Π50'04	
direct	11363 Jul 16 10:16	11°✠29'55		desc. node	11364 Jul 01 09:56	25°Π18'07	
morning max el	11363 Jul 30 02:37	19°✠30'10	27°27'11		11364 Jul 08 20:45	0°✠	
	11363 Aug 08 01:05	0°Ω		morning max el	11364 Jul 11 13:20	2°✠33'31	26°29'09
	11363 Aug 27 07:42	0°♐			11364 Aug 01 06:11	0°Ω	
morning set	11363 Sep 03 08:20	13°♐10'41		morning set	11364 Aug 16 11:32	26°Ω08'43	
asc. node	11363 Sep 07 22:10	22°♐25'23			11364 Aug 18 12:07	0°♐	
max. Earth dist.	11363 Sep 08 00:06	22°♐35'26	1.33024 AU	max. Earth dist.	11364 Aug 20 11:26	3°♐50'25	1.34576 AU
				asc. node	11364 Aug 24 18:52	12°♐31'09	
superior conj	11363 Sep 11 11:50	29°♐56'48	0°34'23				
minimum elong	11363 Sep 11 10:14	29°♐48'17	0°34'01	superior conj	11364 Aug 25 10:07	13°♐49'38	0°06'11
	11363 Sep 11 12:26	0°♊		minimum elong	11364 Aug 25 09:47	13°♐47'57	0°05'52
evening rise	11363 Sep 18 13:13	15°♊08'00		behind sun begin	11364 Aug 25 04:17	13°♐19'35	
	11363 Sep 25 22:15	0°♌		behind sun end	11364 Aug 25 15:17	14°♐16'23	
evening max el	11363 Oct 10 06:50	20°♌40'08	22°31'29	evening rise	11364 Sep 01 22:30	29°♐33'48	
desc. node	11363 Oct 11 10:04	21°♌43'55			11364 Sep 02 03:32	0°♊	
retrograde	11363 Oct 23 06:48	27°♌08'03			11364 Sep 20 01:24	0°♌	
evening set	11363 Oct 26 20:06	26°♌40'20		evening max el	11364 Sep 21 01:49	1°♌02'57	20°58'23
min. Earth dist.	11363 Nov 03 14:19	23°♌12'01	0.54874 AU	desc. node	11364 Sep 27 07:24	5°♌35'41	
inferior conj	11363 Nov 04 13:10	22°♌39'38	-5°42'29	retrograde	11364 Oct 02 18:02	6°♌50'36	
minimum elong	11363 Nov 04 08:54	22°♌45'42	5°41'36	evening set	11364 Oct 05 02:49	6°♌37'20	
morning rise	11363 Nov 12 23:14	18°♌51'59		inferior conj	11364 Oct 14 05:04	2°♌42'32	-4°44'41
direct	11363 Nov 16 05:10	18°♌28'02		minimum elong	11364 Oct 13 19:16	2°♌56'24	4°41'55
morning max el	11363 Nov 27 20:48	23°♌59'10	21°14'25	min. Earth dist.	11364 Oct 14 21:41	2°♌18'58	0.54603 AU
	11363 Dec 03 03:05	0°♍			11364 Oct 19 07:34	30°✠♊	
asc. node	11363 Dec 04 22:50	2°♍33'24		morning rise	11364 Oct 22 11:57	28°♊48'36	
morning set	11363 Dec 17 19:03	26°♍05'37		direct	11364 Oct 26 13:22	28°♊13'13	
	11363 Dec 19 15:49	0°♎			11364 Nov 02 10:20	0°♌	
				morning max el	11364 Nov 08 12:45	4°♌27'38	22°56'39
superior conj	11363 Dec 25 01:54	11°♎21'50	1°29'21	asc. node	11364 Nov 20 19:46	20°♌42'07	
minimum elong	11363 Dec 25 03:54	11°♎32'14	1°29'53		11364 Nov 25 22:27	0°♍	
max. Earth dist.	11363 Dec 29 16:44	20°♎43'50	1.35284 AU	morning set	11364 Dec 01 06:17	10°♍52'56	
evening rise	11364 Jan 02 18:40	28°♎36'25					
	11364 Jan 03 12:32	0°♏		superior conj	11364 Dec 08 05:26	25°♍51'50	1°37'29
desc. node	11364 Jan 07 08:34	6°♏57'43		minimum elong	11364 Dec 08 06:19	25°♍56'31	1°38'09
	11364 Jan 21 16:56	0°✠			11364 Dec 10 04:05	0°♎	
evening max el	11364 Feb 07 02:42	20°✠16'40	26°30'51	max. Earth dist.	11364 Dec 11 10:12	2°♎38'00	1.33618 AU
retrograde	11364 Feb 20 02:29	27°✠36'18		evening rise	11364 Dec 16 02:44	12°♎09'07	
evening set	11364 Feb 26 10:50	25°✠04'11		desc. node	11364 Dec 24 05:29	27°♎13'18	

	11364 Dec 25 20:10	0°♊		desc. node	11365 Dec 11 02:29	17°♊09'45	
	11365 Jan 15 23:06	0°♋			11365 Dec 19 05:47	0°♊	
evening max el	11365 Jan 19 16:10	3°♋50'38	27°14'32	evening max el	11366 Jan 02 03:48	16°♊59'08	27°31'39
retrograde	11365 Feb 02 03:52	11°♋14'32		retrograde	11366 Jan 15 22:10	24°♊20'00	
evening set	11365 Feb 08 21:25	8°♋41'56		evening set	11366 Jan 22 21:25	21°♊54'04	
min. Earth dist.	11365 Feb 12 18:58	5°♋02'56	0.64972 AU	min. Earth dist.	11366 Jan 26 15:30	18°♊44'48	0.63141 AU
inferior conj	11365 Feb 15 02:44	2°♋29'29	-0°32'40	inferior conj	11366 Jan 29 10:02	16°♊00'31	-1°43'22
minimum elong	11365 Feb 15 03:42	2°♋26'50	0°31'53	minimum elong	11366 Jan 29 13:26	15°♊52'06	1°41'26
asc. node	11365 Feb 16 18:26	0°♋42'37		asc. node	11366 Feb 03 15:43	11°♊35'31	
	11365 Feb 17 11:18	30°♋		morning rise	11366 Feb 05 07:42	10°♊47'07	
morning rise	11365 Feb 21 11:35	27°♊00'11		direct	11366 Feb 07 15:51	10°♊21'04	
direct	11365 Feb 24 02:52	26°♊23'32		morning max el	11366 Feb 14 05:33	13°♊43'13	17°46'50
morning max el	11365 Mar 02 11:54	29°♊43'33	17°57'08		11366 Feb 25 12:13	0°♋	
	11365 Mar 02 18:30	0°♋		morning set	11366 Mar 02 10:38	8°♋30'51	
morning set	11365 Mar 20 04:19	26°♋02'04		desc. node	11366 Mar 09 03:01	20°♋01'08	
desc. node	11365 Mar 22 06:22	29°♋28'43					
	11365 Mar 22 13:57	0°♌		superior conj	11366 Mar 14 15:34	29°♋16'00	-0°41'02
superior conj	11365 Apr 03 07:12	18°♌58'14	-1°22'25	minimum elong	11366 Mar 14 11:20	28°♋58'31	0°40'20
minimum elong	11365 Apr 02 22:36	18°♌24'06	1°21'35		11366 Mar 15 02:15	0°♌	
max. Earth dist.	11365 Apr 07 03:24	25°♌02'24	1.45416 AU	max. Earth dist.	11366 Mar 20 21:48	9°♌25'28	1.44410 AU
	11365 Apr 10 07:27	0°♍		evening rise	11366 Mar 29 20:01	23°♌24'22	
evening rise	11365 Apr 19 08:31	13°♍59'46			11366 Apr 03 03:43	0°♍	
	11365 Apr 29 20:41	0°♎		evening max el	11366 Apr 24 06:37	0°♎	
greatest brilliancy	11365 May 03 14:04	5°♎32'02	-0.6m	asc. node	11366 Apr 28 06:23	4°♎29'43	20°50'57
evening max el	11365 May 15 06:08	20°♎45'12	19°46'28	retrograde	11366 May 02 13:11	8°♎02'42	
asc. node	11365 May 15 15:58	21°♎09'33		evening set	11366 May 06 14:58	9°♎22'10	
retrograde	11365 May 22 16:10	24°♎58'40		inferior conj	11366 May 10 19:15	7°♎43'23	
evening set	11365 May 26 10:40	23°♎35'57		minimum elong	11366 May 16 01:46	1°♎33'23	3°09'17
inferior conj	11365 May 31 18:52	17°♎38'22	3°16'14	min. Earth dist.	11366 May 16 00:42	1°♎37'05	3°08'36
minimum elong	11365 May 31 18:47	17°♎38'40	3°15'34		11366 May 16 13:53	0°♎51'29	0.68327 AU
min. Earth dist.	11365 Jun 01 20:51	16°♎11'26	0.67488 AU	morning rise	11366 May 17 04:53	30°♎	
morning rise	11365 Jun 06 02:33	11°♎17'41		direct	11366 May 21 05:56	25°♎16'13	
direct	11365 Jun 11 23:50	8°♎41'24		desc. node	11366 May 26 14:37	22°♎54'22	
desc. node	11365 Jun 18 07:00	10°♎59'52		morning max el	11366 Jun 05 04:00	28°♎08'39	
morning max el	11365 Jun 23 23:26	15°♎52'30	25°11'02		11366 Jun 06 09:18	29°♎20'18	23°42'41
	11365 Jul 05 14:59	0°♏			11366 Jun 07 00:46	0°♎	
	11365 Jul 25 04:00	0°♐		morning set	11366 Jun 29 09:42	0°♏	
morning set	11365 Jul 29 22:57	8°♐21'31		max. Earth dist.	11366 Jul 11 13:44	19°♏36'41	
max. Earth dist.	11365 Aug 02 13:24	14°♐55'54	1.36571 AU		11366 Jul 15 10:51	26°♏19'07	1.38833 AU
					11366 Jul 17 12:36	0°♐	
superior conj	11365 Aug 08 22:54	27°♐12'40	-0°25'42	superior conj	11366 Jul 22 22:32	9°♐56'37	-0°59'27
minimum elong	11365 Aug 09 00:32	27°♐20'47	0°25'49	minimum elong	11366 Jul 23 02:38	10°♐15'52	0°59'21
	11365 Aug 10 08:34	0°♑		asc. node	11366 Jul 29 12:25	22°♐34'59	
asc. node	11365 Aug 11 15:37	2°♑35'43		evening rise	11366 Aug 01 02:04	27°♐36'02	
evening rise	11365 Aug 17 03:42	13°♑45'41			11366 Aug 02 07:40	0°♑	
	11365 Aug 25 15:41	0°♒		evening max el	11366 Aug 17 07:38	23°♑58'53	18°49'36
evening max el	11365 Sep 03 10:15	12°♒07'31	19°43'18	retrograde	11366 Aug 25 18:26	28°♑12'30	
retrograde	11365 Sep 13 10:12	17°♒05'58		evening set	11366 Aug 27 16:19	28°♑00'20	
desc. node	11365 Sep 14 04:44	17°♒04'18		desc. node	11366 Sep 01 02:06	26°♑11'18	
evening set	11365 Sep 15 07:10	16°♒56'16		inferior conj	11366 Sep 04 20:25	23°♑40'09	-1°10'38
inferior conj	11365 Sep 24 03:40	12°♒53'27	-3°03'14	minimum elong	11366 Sep 04 17:28	23°♑45'30	1°09'36
minimum elong	11365 Sep 23 19:38	13°♒05'56	3°00'16	min. Earth dist.	11366 Sep 07 21:58	21°♑28'15	0.56767 AU
min. Earth dist.	11365 Sep 26 07:22	11°♒33'13	0.55276 AU	morning rise	11366 Sep 12 15:18	18°♑42'44	
morning rise	11365 Oct 02 06:20	8°♒33'28		direct	11366 Sep 18 06:55	17°♑25'48	
direct	11365 Oct 07 03:29	7°♒40'54		morning max el	11366 Oct 02 13:13	24°♑48'55	26°19'40
morning max el	11365 Oct 20 23:33	14°♒33'08	24°44'19		11366 Oct 07 08:23	0°♒	
	11365 Nov 02 03:25	0°♓		asc. node	11366 Oct 25 13:28	28°♒45'40	
asc. node	11365 Nov 07 16:38	9°♓29'29			11366 Oct 26 04:38	0°♓	
morning set	11365 Nov 15 18:06	25°♓38'50		morning set	11366 Oct 31 04:50	10°♓18'47	
	11365 Nov 17 18:27	0°♔					
superior conj	11365 Nov 22 13:48	10°♔33'15	1°39'09	superior conj	11366 Nov 07 00:51	25°♓19'54	1°34'48
minimum elong	11365 Nov 22 13:31	10°♔31'43	1°39'47	minimum elong	11366 Nov 06 23:35	25°♓12'52	1°35'15
max. Earth dist.	11365 Nov 24 11:32	14°♔42'48	1.32389 AU	max. Earth dist.	11366 Nov 07 18:26	26°♓57'32	1.31632 AU
evening rise	11365 Nov 29 21:12	26°♔07'55			11366 Nov 09 03:25	0°♔	
	11365 Dec 01 19:13	0°♕		evening rise	11366 Nov 13 23:14	10°♔25'39	
					11366 Nov 24 01:26	0°♕	

desc. node	11366 Nov 27 23:33	6° Z 39'14		minimum elong	11367 Oct 22 10:38	9° M 54'03	1°24'58
evening max el	11366 Dec 15 11:10	29° Z 29'37	27°16'46	evening rise	11367 Oct 29 06:24	24° M 55'07	
	11366 Dec 16 00:12	0° \approx			11367 Oct 31 16:21	0° X	
retrograde	11366 Dec 29 08:49	6° \approx 44'03		desc. node	11367 Nov 14 20:43	25° X 30'11	
evening set	11367 Jan 05 07:41	4° \approx 33'27			11367 Nov 17 23:07	0° Z	
min. Earth dist.	11367 Jan 09 01:38	1° \approx 47'02	0.61082 AU	evening max el	11367 Nov 27 11:41	11° Z 10'51	26°27'36
	11367 Jan 11 03:03	30° R Z		retrograde	11367 Dec 11 10:17	18° Z 17'20	
inferior conj	11367 Jan 12 04:04	29° Z 04'52	-3°00'06	evening set	11367 Dec 18 00:02	16° Z 31'33	
minimum elong	11367 Jan 12 10:14	28° Z 51'24	2°57'10	min. Earth dist.	11367 Dec 22 01:21	13° Z 55'52	0.58947 AU
morning rise	11367 Jan 19 15:32	24° Z 10'35		inferior conj	11367 Dec 25 05:11	11° Z 31'53	-4°16'27
direct	11367 Jan 21 19:02	23° Z 51'33		minimum elong	11367 Dec 25 13:19	11° Z 16'25	4°13'24
asc. node	11367 Jan 21 12:57	23° Z 51'49		morning rise	11368 Jan 02 05:22	6° Z 59'06	
morning max el	11367 Jan 28 21:29	27° Z 25'44	17°54'41	direct	11368 Jan 04 08:01	6° Z 43'36	
	11367 Jan 31 04:53	0° \approx		asc. node	11368 Jan 08 10:08	7° Z 45'09	
morning set	11367 Feb 13 12:19	21° \approx 54'16		morning max el	11368 Jan 12 07:54	10° Z 39'32	18°22'09
	11367 Feb 17 23:15	0° X			11368 Jan 25 00:41	0° \approx	
desc. node	11367 Feb 23 23:43	10° X 39'42		morning set	11368 Jan 28 03:36	5° \approx 54'21	
superior conj	11367 Feb 24 00:53	10° X 44'47	-0°00'23	superior conj	11368 Feb 06 08:31	23° \approx 15'27	0°34'36
minimum elong	11367 Feb 24 00:52	10° X 44'43	0°00'05	minimum elong	11368 Feb 06 10:52	23° \approx 26'14	0°34'42
behind sun begin	11367 Feb 23 16:45	10° X 09'28			11368 Feb 10 02:16	0° X	
behind sun end	11367 Feb 24 08:59	11° X 19'54		desc. node	11368 Feb 10 20:25	1° X 20'10	
max. Earth dist.	11367 Mar 03 12:02	23° X 21'00	1.42807 AU	max. Earth dist.	11368 Feb 13 21:15	6° X 36'22	1.40784 AU
	11367 Mar 07 14:32	0° Y		evening rise	11368 Feb 18 08:52	14° X 07'54	
evening rise	11367 Mar 09 16:56	3° Y 20'02			11368 Feb 28 10:22	0° Y	
	11367 Mar 27 13:14	0° Z			11368 Mar 21 17:32	0° Z	
evening max el	11367 Apr 11 01:20	18° Z 15'09	22°05'51	evening max el	11368 Mar 23 16:36	2° Z 02'50	23°26'08
asc. node	11367 Apr 19 10:27	23° Z 45'04		retrograde	11368 Apr 03 07:54	8° Z 19'27	
retrograde	11367 Apr 20 12:45	23° Z 50'51		asc. node	11368 Apr 05 07:46	8° Z 00'41	
evening set	11367 Apr 25 03:40	21° Z 56'44		evening set	11368 Apr 08 10:17	6° Z 11'17	
inferior conj	11367 Apr 30 10:46	15° Z 36'34	2°51'42	inferior conj	11368 Apr 13 19:54	29° Y 44'11	2°24'15
minimum elong	11367 Apr 30 08:59	15° Z 42'48	2°50'55	minimum elong	11368 Apr 13 17:45	29° Y 51'35	2°23'23
min. Earth dist.	11367 Apr 30 09:56	15° Z 39'29	0.68703 AU	min. Earth dist.	11368 Apr 13 06:46	0° Z 29'23	0.68629 AU
morning rise	11367 May 05 14:09	9° Z 24'30			11368 Apr 13 15:18	30° R Y	
direct	11367 May 10 09:32	7° Z 21'46		morning rise	11368 Apr 19 01:09	23° Y 38'32	
morning max el	11367 May 19 21:12	12° Z 56'02	22°13'34	direct	11368 Apr 23 07:22	21° Y 57'02	
desc. node	11367 May 23 00:56	16° Z 21'18		morning max el	11368 May 01 14:19	26° Y 41'45	20°51'40
	11367 Jun 02 12:29	0° II			11368 May 04 15:17	0° Z	
morning set	11367 Jun 22 03:20	29° II 43'24		desc. node	11368 May 08 21:46	5° Z 20'09	
	11367 Jun 22 07:27	0° Z			11368 May 25 23:51	0° II	
max. Earth dist.	11367 Jun 27 09:59	8° Z 24'56	1.41112 AU	morning set	11368 May 31 15:51	8° II 43'36	
				max. Earth dist.	11368 Jun 08 15:10	21° II 23'36	1.43134 AU
superior conj	11367 Jul 05 04:41	21° Z 51'38	-1°32'01		11368 Jun 13 20:46	0° Z	
minimum elong	11367 Jul 05 10:55	22° Z 19'21	1°31'54	superior conj	11368 Jun 15 12:58	2° Z 48'33	-1°58'33
	11367 Jul 09 16:47	0° Z		minimum elong	11368 Jun 15 19:14	3° Z 14'56	1°58'47
evening rise	11367 Jul 15 14:08	10° Z 55'51		evening rise	11368 Jun 27 11:30	23° Z 34'14	
asc. node	11367 Jul 16 09:16	12° Z 25'02			11368 Jul 01 02:32	0° Z	
	11367 Jul 26 11:03	0° M		asc. node	11368 Jul 02 06:11	2° Z 01'20	
evening max el	11367 Jul 31 14:32	6° M 30'45	18°16'58	evening max el	11368 Jul 14 02:52	19° Z 33'14	18°04'13
retrograde	11367 Aug 07 21:39	10° M 11'50		retrograde	11368 Jul 20 17:27	22° Z 56'44	
evening set	11367 Aug 10 02:05	9° M 52'43		evening set	11368 Jul 23 05:54	22° Z 27'00	
inferior conj	11367 Aug 17 11:02	5° M 12'15	0°27'37	inferior conj	11368 Jul 29 21:37	17° Z 26'39	1°41'41
minimum elong	11367 Aug 17 11:58	5° M 10'17	0°26'55	minimum elong	11368 Jul 30 00:11	17° Z 20'24	1°40'21
desc. node	11367 Aug 18 23:28	3° M 54'52		min. Earth dist.	11368 Aug 02 01:03	14° Z 24'08	0.61087 AU
min. Earth dist.	11367 Aug 20 19:23	2° M 23'53	0.58814 AU	desc. node	11368 Aug 04 20:47	12° Z 01'53	
	11367 Aug 24 04:18	30° R Z		morning rise	11368 Aug 05 15:48	11° Z 28'35	
morning rise	11367 Aug 24 18:23	29° Z 39'39		direct	11368 Aug 12 06:57	9° Z 15'20	
direct	11367 Aug 31 00:54	27° Z 53'35		morning max el	11368 Aug 26 12:55	17° Z 13'57	27°56'14
	11367 Sep 07 04:21	0° M			11368 Sep 06 03:21	0° M	
morning max el	11367 Sep 14 09:40	5° M 39'09	27°26'32		11368 Sep 24 04:15	0° Z	
	11367 Oct 02 11:40	0° Z		asc. node	11368 Sep 28 06:59	8° Z 13'24	
asc. node	11367 Oct 12 10:15	18° Z 22'17		morning set	11368 Sep 28 15:47	8° Z 58'53	
morning set	11367 Oct 15 12:41	24° Z 47'03		max. Earth dist.	11368 Oct 04 11:05	21° Z 24'01	1.31616 AU
	11367 Oct 17 23:02	0° M					
max. Earth dist.	11367 Oct 22 03:29	9° M 14'12	1.31370 AU	superior conj	11368 Oct 05 23:15	24° Z 43'21	1°09'19
superior conj	11367 Oct 22 12:36	10° M 04'58	1°24'47	minimum elong	11368 Oct 05 21:00	24° Z 30'56	1°09'12

	11368 Oct 08 08:26	0°♍		minimum elong	11369 Sep 20 04:49	8°♊57'40	0°48'16
evening rise	11368 Oct 12 16:39	9°♍31'00		evening rise	11369 Sep 27 04:02	24°♊07'13	
	11368 Oct 23 01:52	0°♊			11369 Sep 29 22:58	0°♍	
desc. node	11368 Oct 31 17:57	13°♊27'40			11369 Oct 18 11:10	0°♊	
evening max el	11368 Nov 08 04:06	22°♊01'06	25°07'49	desc. node	11369 Oct 18 15:13	0°♊11'07	
retrograde	11368 Nov 22 00:22	28°♊57'58		evening max el	11369 Oct 20 14:50	2°♊13'40	23°29'29
evening set	11368 Nov 27 17:48	27°♊43'59		retrograde	11369 Nov 03 01:27	8°♊55'39	
min. Earth dist.	11368 Dec 02 16:08	25°♊02'21	0.56973 AU	evening set	11369 Nov 07 11:28	8°♊13'14	
inferior conj	11368 Dec 05 10:24	23°♊12'58	-5°19'31	min. Earth dist.	11369 Nov 14 00:48	5°♊07'11	0.55444 AU
minimum elong	11368 Dec 05 17:23	23°♊01'24	5°17'38	inferior conj	11369 Nov 15 19:26	4°♊04'34	-5°49'03
morning rise	11368 Dec 13 19:13	19°♊02'09		minimum elong	11369 Nov 15 20:08	4°♊03'31	5°48'26
direct	11368 Dec 16 03:06	18°♊46'28		morning rise	11369 Nov 24 06:35	0°♊12'00	
asc. node	11368 Dec 25 07:14	23°♊09'41			11369 Nov 25 08:18	30°♋♍	
morning max el	11368 Dec 25 08:49	23°♊13'28	19°11'10	direct	11369 Nov 27 03:01	29°♍52'09	
	11368 Dec 30 21:16	0°♊			11369 Nov 28 20:57	0°♊	
morning set	11369 Jan 11 04:08	20°♊18'38		morning max el	11369 Dec 07 20:47	4°♊57'52	20°23'10
	11369 Jan 16 01:03	0°♋		asc. node	11369 Dec 12 04:15	9°♊50'27	
					11369 Dec 24 00:01	0°♊	
superior conj	11369 Jan 19 09:48	6°♋34'52	1°01'58	morning set	11369 Dec 26 10:42	4°♊57'38	
minimum elong	11369 Jan 19 12:48	6°♋49'20	1°02'10				
max. Earth dist.	11369 Jan 26 03:35	19°♋11'04	1.38574 AU	superior conj	11370 Jan 03 00:10	20°♊30'20	1°21'30
desc. node	11369 Jan 27 17:10	21°♋59'11		minimum elong	11370 Jan 03 02:42	20°♊43'11	1°21'55
evening rise	11369 Jan 29 22:15	25°♋51'49			11370 Jan 07 19:21	0°♋	
	11369 Feb 01 08:19	0°♋		max. Earth dist.	11370 Jan 08 11:11	1°♋16'03	1.36415 AU
	11369 Feb 21 01:06	0°♋		evening rise	11370 Jan 12 06:59	8°♋25'19	
evening max el	11369 Mar 06 06:19	15°♋53'32	24°45'21	desc. node	11370 Jan 14 13:58	12°♋32'57	
retrograde	11369 Mar 17 23:11	22°♋42'49			11370 Jan 25 01:45	0°♋	
asc. node	11369 Mar 23 05:05	20°♋40'05		evening max el	11370 Feb 16 19:50	29°♋44'01	25°56'27
evening set	11369 Mar 23 13:33	20°♋22'37			11370 Feb 17 02:25	0°♋	
min. Earth dist.	11369 Mar 28 02:06	15°♋16'09	0.68124 AU	retrograde	11370 Mar 01 09:40	6°♋55'22	
inferior conj	11369 Mar 29 03:16	13°♋52'38	1°47'12	evening set	11370 Mar 07 11:53	4°♋26'12	
minimum elong	11369 Mar 29 01:12	13°♋59'31	1°46'24	asc. node	11370 Mar 10 02:23	1°♋51'42	
morning rise	11369 Apr 03 13:01	7°♋54'50		min. Earth dist.	11370 Mar 11 17:44	29°♋54'49	0.67203 AU
direct	11369 Apr 07 06:48	6°♋34'32			11370 Mar 11 16:03	30°♋♋	
morning max el	11369 Apr 14 14:54	10°♋39'12	19°42'20	inferior conj	11370 Mar 13 06:57	27°♋58'16	1°00'32
desc. node	11369 Apr 25 18:32	24°♋52'41		minimum elong	11370 Mar 13 05:31	28°♋02'46	1°00'05
greatest brilliancy	11369 Apr 27 09:26	27°♋13'56	-0.6m	morning rise	11370 Mar 18 23:46	22°♋10'01	
	11369 Apr 29 06:31	0°♋		direct	11370 Mar 22 06:09	21°♋09'11	
morning set	11369 May 10 15:24	17°♋13'28		morning max el	11370 Mar 28 23:08	24°♋46'44	18°48'26
	11369 May 18 20:51	0°♋			11370 Apr 02 11:04	0°♋	
max. Earth dist.	11369 May 22 03:34	5°♋10'15	1.44667 AU	desc. node	11370 Apr 12 15:15	14°♋50'06	
				morning set	11370 Apr 20 00:56	26°♋19'36	
superior conj	11369 May 26 21:02	12°♋43'21	-2°12'31		11370 Apr 22 09:29	0°♋	
minimum elong	11369 May 26 23:00	12°♋51'15	2°13'08	max. Earth dist.	11370 May 04 21:21	19°♋30'03	1.45542 AU
	11369 Jun 06 09:16	0°♋					
evening rise	11369 Jun 09 13:08	5°♋19'11		superior conj	11370 May 06 09:26	21°♋51'28	-2°07'49
asc. node	11369 Jun 19 03:09	21°♋17'41		minimum elong	11370 May 06 03:54	21°♋29'46	2°08'06
	11369 Jun 25 02:45	0°♋			11370 May 11 13:32	0°♋	
evening max el	11369 Jun 27 16:52	2°♋55'38	18°10'15	evening rise	11370 May 21 15:17	16°♋04'49	
retrograde	11369 Jul 04 01:28	6°♋16'23			11370 May 30 07:20	0°♋	
evening set	11369 Jul 06 22:01	5°♋33'25		asc. node	11370 Jun 06 00:11	10°♋07'29	
inferior conj	11369 Jul 13 00:10	0°♋14'46	2°31'48	evening max el	11370 Jun 11 05:27	16°♋30'36	18°34'17
minimum elong	11369 Jul 13 02:42	0°♋07'46	2°30'34	retrograde	11370 Jun 17 17:34	20°♋02'24	
	11369 Jul 13 05:31	30°♋♋		evening set	11370 Jun 20 22:14	19°♋04'39	
min. Earth dist.	11369 Jul 15 15:51	27°♋20'24	0.63297 AU	inferior conj	11370 Jun 26 14:44	13°♋29'31	3°01'33
morning rise	11369 Jul 19 05:44	24°♋01'25		minimum elong	11370 Jun 26 16:25	13°♋24'25	3°00'37
desc. node	11369 Jul 22 18:03	22°♋02'24		min. Earth dist.	11370 Jun 28 15:55	11°♋00'49	0.65239 AU
direct	11369 Jul 25 22:24	21°♋28'37		morning rise	11370 Jul 02 09:40	7°♋08'58	
morning max el	11369 Aug 08 21:07	29°♋30'45	27°47'46	direct	11370 Jul 08 21:54	4°♋26'51	
	11369 Aug 09 08:39	0°♋		desc. node	11370 Jul 09 15:15	4°♋28'40	
	11369 Aug 31 02:35	0°♋		morning max el	11370 Jul 22 07:50	12°♋21'14	27°05'37
morning set	11369 Sep 12 11:53	22°♋47'45			11370 Aug 05 10:44	0°♋	
asc. node	11369 Sep 15 03:41	28°♋13'25			11370 Aug 23 16:40	0°♋	
	11369 Sep 16 00:08	0°♋		morning set	11370 Aug 26 22:14	6°♋06'45	
max. Earth dist.	11369 Sep 17 13:26	3°♋16'53	1.32368 AU	max. Earth dist.	11370 Aug 31 07:04	14°♋46'13	1.33630 AU
				asc. node	11370 Sep 02 00:24	18°♋18'10	
superior conj	11369 Sep 20 06:50	9°♋08'35	0°48'36				

superior conj	11370 Sep 04 09:12	23° \mathbb{M} 14'51	0°22'57	max. Earth dist.	11371 Aug 13 14:12	25° Ω 54'59	1.35374 AU
minimum elong	11370 Sep 04 08:03	23° \mathbb{M} 08'49	0°22'34		11371 Aug 15 16:37	0° \mathbb{M}	
	11370 Sep 07 13:25	0° Ω					
evening rise	11370 Sep 11 14:40	8° Ω 38'24		superior conj	11371 Aug 19 03:50	6° \mathbb{M} 55'50	-0°07'00
	11370 Sep 22 18:28	0° \mathbb{M}		minimum elong	11371 Aug 19 04:16	6° \mathbb{M} 58'00	0°07'15
evening max el	11370 Oct 02 03:57	12° \mathbb{M} 21'26	21°50'01	behind sun begin	11371 Aug 18 22:47	6° \mathbb{M} 30'13	
desc. node	11370 Oct 05 12:33	15° \mathbb{M} 14'09		behind sun end	11371 Aug 19 09:44	7° \mathbb{M} 25'50	
retrograde	11370 Oct 14 15:58	18° \mathbb{M} 34'32		asc. node	11371 Aug 19 21:09	8° \mathbb{M} 23'56	
evening set	11370 Oct 17 15:36	18° \mathbb{M} 14'28		evening rise	11371 Aug 26 22:31	22° \mathbb{M} 59'09	
inferior conj	11370 Oct 26 14:05	14° \mathbb{M} 17'32	-5°24'51		11371 Aug 30 09:29	0° Ω	
minimum elong	11370 Oct 26 06:38	14° \mathbb{M} 27'57	5°23'14	evening max el	11371 Sep 14 04:18	23° Ω 00'11	20°23'57
min. Earth dist.	11370 Oct 26 07:30	14° \mathbb{M} 26'44	0.54644 AU	desc. node	11371 Sep 22 09:54	28° Ω 07'42	
morning rise	11370 Nov 03 22:56	10° \mathbb{M} 30'11		retrograde	11371 Sep 25 04:09	28° Ω 27'50	
direct	11370 Nov 07 12:56	10° \mathbb{M} 02'07		evening set	11371 Sep 27 05:34	28° Ω 17'11	
morning max el	11370 Nov 19 19:09	15° \mathbb{M} 51'19	21°56'24	inferior conj	11371 Oct 06 07:08	24° Ω 20'26	-4°05'14
asc. node	11370 Nov 29 01:13	27° \mathbb{M} 31'22		minimum elong	11371 Oct 05 21:19	24° Ω 34'47	4°02'02
	11370 Nov 30 14:00	0° \mathbb{M}		min. Earth dist.	11371 Oct 07 15:51	23° Ω 32'35	0.54766 AU
morning set	11370 Dec 10 20:49	19° \mathbb{M} 43'50		morning rise	11371 Oct 14 12:26	20° Ω 17'17	
	11370 Dec 15 16:52	0° Ω		direct	11371 Oct 18 21:58	19° Ω 35'38	
				morning max el	11371 Nov 01 08:09	26° Ω 07'36	23°42'52
superior conj	11370 Dec 17 23:47	4° Ω 50'38	1°33'38		11371 Nov 05 00:33	0° \mathbb{M}	
minimum elong	11370 Dec 18 01:20	4° Ω 58'45	1°34'14	asc. node	11371 Nov 15 22:07	15° \mathbb{M} 58'08	
max. Earth dist.	11370 Dec 22 00:08	13° Ω 08'35	1.34522 AU		11371 Nov 23 04:53	0° \mathbb{M}	
evening rise	11370 Dec 26 07:32	21° Ω 38'56		morning set	11371 Nov 25 08:32	4° \mathbb{M} 31'43	
	11370 Dec 30 19:11	0° \approx					
desc. node	11371 Jan 01 10:50	2° \approx 56'41		superior conj	11371 Dec 02 05:44	19° \mathbb{M} 27'12	1°38'57
	11371 Jan 18 21:33	0° \mathbb{M}		minimum elong	11371 Dec 02 06:06	19° \mathbb{M} 29'14	1°39'37
evening max el	11371 Jan 30 09:16	13° \mathbb{M} 26'03	26°52'11	max. Earth dist.	11371 Dec 04 20:53	25° \mathbb{M} 06'14	1.33031 AU
retrograde	11371 Feb 12 14:37	20° \mathbb{M} 48'45			11371 Dec 07 04:50	0° Ω	
evening set	11371 Feb 19 03:23	18° \mathbb{M} 15'19		evening rise	11371 Dec 09 20:27	5° Ω 24'16	
min. Earth dist.	11371 Feb 23 03:32	14° \mathbb{M} 18'00	0.65889 AU	desc. node	11371 Dec 19 07:48	23° Ω 05'21	
asc. node	11371 Feb 24 23:42	12° \mathbb{M} 09'57			11371 Dec 23 11:00	0° \approx	
inferior conj	11371 Feb 25 04:45	11° \mathbb{M} 55'15	0°04'07	evening max el	11372 Jan 12 22:01	26° \approx 50'26	27°25'20
minimum elong	11371 Feb 25 04:37	11° \mathbb{M} 55'37	0°04'21		11372 Jan 16 13:30	0° \mathbb{M}	
transit middle	11371 Feb 25 04:37	11° \mathbb{M} 55'37	0°04'21	retrograde	11372 Jan 26 13:22	4° \mathbb{M} 14'38	
transit begin	11371 Feb 25 01:46	12° \mathbb{M} 03'54		evening set	11372 Feb 02 09:51	1° \mathbb{M} 43'39	
transit end	11371 Feb 25 07:28	11° \mathbb{M} 47'21			11372 Feb 04 11:43	30° \mathbb{M}	
morning rise	11371 Mar 03 07:07	6° \mathbb{M} 18'35		min. Earth dist.	11372 Feb 06 05:32	28° \approx 17'56	0.64228 AU
direct	11371 Mar 06 03:24	5° \mathbb{M} 34'15		inferior conj	11372 Feb 08 18:12	25° \approx 38'06	-1°01'42
morning max el	11371 Mar 12 13:12	8° \mathbb{M} 57'24	18°11'01	minimum elong	11372 Feb 08 20:07	25° \approx 33'02	1°00'26
	11371 Mar 27 08:14	0° \mathbb{Y}		asc. node	11372 Feb 11 20:59	22° \approx 33'28	
desc. node	11371 Mar 30 11:54	5° \mathbb{Y} 04'56		morning rise	11372 Feb 15 08:20	20° \approx 15'23	
morning set	11371 Mar 31 12:41	6° \mathbb{Y} 44'56		direct	11372 Feb 17 20:12	19° \approx 43'51	
	11371 Apr 15 03:07	0° Ω		morning max el	11372 Feb 24 06:26	23° \approx 03'44	17°50'33
					11372 Feb 29 19:27	0° \mathbb{M}	
superior conj	11371 Apr 15 16:28	0° Ω 52'24	-1°43'18	morning set	11372 Mar 12 04:55	18° \mathbb{M} 33'16	
minimum elong	11371 Apr 15 07:02	0° Ω 15'25	1°42'42	desc. node	11372 Mar 16 08:33	25° \mathbb{M} 32'10	
max. Earth dist.	11371 Apr 17 17:04	4° Ω 02'42	1.45675 AU		11372 Mar 19 00:56	0° \mathbb{Y}	
evening rise	11371 May 01 18:24	25° Ω 56'01					
	11371 May 04 09:12	0° \mathbb{M}		superior conj	11372 Mar 25 12:07	10° \mathbb{Y} 33'30	-1°05'15
greatest brilliancy	11371 May 13 13:46	14° \mathbb{M} 08'27	-0.7m	minimum elong	11372 Mar 25 05:09	10° \mathbb{Y} 05'26	1°04'24
asc. node	11371 May 23 21:18	28° \mathbb{M} 21'35		max. Earth dist.	11372 Mar 30 12:08	18° \mathbb{Y} 31'58	1.45069 AU
	11371 May 25 09:32	0° Ω			11372 Apr 06 20:23	0° Ω	
evening max el	11371 May 25 14:15	0° Ω 11'56	19°15'33	evening rise	11372 Apr 10 07:13	5° Ω 18'41	
retrograde	11371 Jun 01 14:18	4° Ω 07'26		greatest brilliancy	11372 Apr 25 03:16	27° Ω 35'04	-0.6m
evening set	11371 Jun 05 03:29	2° Ω 54'02			11372 Apr 26 19:29	0° \mathbb{M}	
	11371 Jun 08 05:26	30° \mathbb{M}		evening max el	11372 May 07 17:48	13° \mathbb{M} 56'03	20°12'24
inferior conj	11371 Jun 10 13:50	27° \mathbb{M} 04'08	3°14'49	asc. node	11372 May 09 18:30	15° \mathbb{M} 48'24	
minimum elong	11371 Jun 10 14:23	27° \mathbb{M} 02'19	3°14'07	retrograde	11372 May 15 12:57	18° \mathbb{M} 25'34	
min. Earth dist.	11371 Jun 12 00:09	25° \mathbb{M} 12'34	0.66792 AU	evening set	11372 May 19 11:25	16° \mathbb{M} 56'12	
morning rise	11371 Jun 16 00:47	20° \mathbb{M} 42'10		inferior conj	11372 May 24 18:36	10° \mathbb{M} 53'08	3°14'39
direct	11371 Jun 22 04:17	18° \mathbb{M} 01'01		minimum elong	11372 May 24 18:04	10° \mathbb{M} 54'57	3°14'00
desc. node	11371 Jun 26 12:22	19° \mathbb{M} 06'56		min. Earth dist.	11372 May 25 14:38	9° \mathbb{M} 44'54	0.67901 AU
morning max el	11371 Jul 04 18:37	25° \mathbb{M} 33'10	25°57'48	morning rise	11372 May 30 00:25	4° \mathbb{M} 33'27	
	11371 Jul 08 20:03	0° Ω		direct	11372 Jun 04 16:30	2° \mathbb{M} 02'20	
	11371 Jul 29 23:04	0° Ω		desc. node	11372 Jun 12 09:25	5° \mathbb{M} 28'42	
morning set	11371 Aug 09 19:19	18° Ω 47'16		morning max el	11372 Jun 16 04:25	8° \mathbb{M} 56'15	24°33'59

	11372 Jul 02 18:16	0°☿		desc. node	11373 May 30 06:22	23°☿07'13	
morning set	11372 Jul 21 22:35	0°☿37'14			11373 Jun 05 04:36	0°☿	
	11372 Jul 21 14:04	0°☿			11373 Jun 26 01:45	0°☿	
max. Earth dist.	11372 Jul 25 13:01	7°☿02'17	1.37508 AU	morning set	11373 Jul 03 03:04	11°☿24'21	
				max. Earth dist.	11373 Jul 07 10:18	18°☿40'55	1.39820 AU
	11373 Jul 13 19:50	0°☿					
superior conj	11372 Aug 01 11:31	20°☿03'20	-0°39'56	superior conj	11373 Jul 15 04:20	2°☿28'24	-1°13'39
minimum elong	11372 Aug 01 14:10	20°☿16'10	0°39'58	minimum elong	11373 Jul 15 09:27	2°☿51'53	1°13'30
asc. node	11372 Aug 05 17:56	28°☿26'38		asc. node	11373 Jul 23 14:47	18°☿22'50	
	11372 Aug 06 12:40	0°☿		evening rise	11373 Jul 24 19:40	20°☿41'18	
evening rise	11372 Aug 10 01:12	7°☿02'33			11373 Jul 29 18:08	0°☿	
	11372 Aug 23 00:45	0°☿		evening max el	11373 Aug 09 20:42	16°☿35'36	18°33'12
evening max el	11372 Aug 26 18:39	4°☿25'22	19°17'53	retrograde	11373 Aug 17 18:04	20°☿33'10	
retrograde	11372 Sep 05 01:56	9°☿03'15		evening set	11373 Aug 19 18:35	20°☿18'24	
evening set	11372 Sep 06 22:07	8°☿53'08		desc. node	11373 Aug 26 04:40	16°☿53'44	
desc. node	11372 Sep 08 07:18	8°☿33'00		inferior conj	11373 Aug 27 14:30	15°☿49'37	-0°26'16
inferior conj	11372 Sep 15 12:31	4°☿44'11	-2°14'59	minimum elong	11373 Aug 27 13:28	15°☿51'37	0°26'05
minimum elong	11372 Sep 15 06:34	4°☿53'59	2°12'42	min. Earth dist.	11373 Aug 30 20:41	13°☿19'58	0.57598 AU
min. Earth dist.	11372 Sep 18 03:39	3°☿00'26	0.55820 AU	morning rise	11373 Sep 04 04:53	10°☿36'46	
morning rise	11372 Sep 23 12:20	0°☿08'39		direct	11373 Sep 10 03:45	9°☿07'33	
	11372 Sep 23 21:33	30°☿		morning max el	11373 Sep 24 11:21	16°☿40'27	26°52'15
direct	11372 Sep 28 17:48	29°☿06'13			11373 Oct 05 10:13	0°☿	
	11372 Oct 03 13:39	0°☿		asc. node	11373 Oct 19 15:47	24°☿23'58	
morning max el	11372 Oct 12 19:17	6°☿13'18	25°27'25		11373 Oct 22 10:00	0°☿	
	11372 Oct 30 01:50	0°☿		morning set	11373 Oct 24 05:46	3°☿50'13	
asc. node	11372 Nov 01 18:58	4°☿58'31					
morning set	11372 Nov 08 20:05	19°☿15'16		superior conj	11373 Oct 31 03:03	18°☿57'37	1°31'13
	11372 Nov 13 18:01	0°☿		minimum elong	11373 Oct 31 01:27	18°☿48'40	1°31'34
superior conj	11372 Nov 15 15:30	4°☿11'30	1°38'01	max. Earth dist.	11373 Oct 31 09:04	19°☿31'08	1.31466 AU
minimum elong	11372 Nov 15 14:46	4°☿07'29	1°38'35		11373 Nov 05 03:06	0°☿	
max. Earth dist.	11372 Nov 17 00:46	7°☿14'43	1.32005 AU	evening rise	11373 Nov 06 22:58	3°☿55'12	
evening rise	11372 Nov 22 18:28	19°☿31'58			11373 Nov 20 18:47	0°☿	
	11372 Nov 28 00:35	0°☿		desc. node	11373 Nov 22 01:59	2°☿05'35	
desc. node	11372 Dec 05 04:51	12°☿51'19		evening max el	11373 Dec 07 13:13	21°☿55'21	27°00'02
	11372 Dec 16 17:24	0°☿		retrograde	11373 Dec 21 11:22	29°☿05'35	
evening max el	11372 Dec 25 08:15	9°☿44'34	27°29'32	evening set	11373 Dec 28 07:34	27°☿04'50	
retrograde	11373 Jan 08 04:44	17°☿03'13		min. Earth dist.	11374 Jan 01 03:38	24°☿24'36	0.60171 AU
evening set	11373 Jan 15 04:28	14°☿42'56		inferior conj	11374 Jan 04 07:32	21°☿48'30	-3°33'08
min. Earth dist.	11373 Jan 18 22:00	11°☿44'10	0.62283 AU	minimum elong	11374 Jan 04 14:44	21°☿33'38	3°30'01
inferior conj	11373 Jan 21 20:18	8°☿59'03	-2°15'26	morning rise	11374 Jan 12 00:39	17°☿02'47	
minimum elong	11373 Jan 22 00:52	8°☿48'17	2°13'02	direct	11374 Jan 14 03:20	16°☿45'35	
morning rise	11373 Jan 28 23:48	3°☿53'10		asc. node	11374 Jan 15 15:27	16°☿54'40	
asc. node	11373 Jan 28 18:15	3°☿57'59		morning max el	11374 Jan 21 13:42	20°☿27'53	18°03'52
direct	11373 Jan 31 05:29	3°☿30'37			11374 Jan 28 16:35	0°☿	
morning max el	11373 Feb 06 23:45	6°☿57'06	17°47'48	morning set	11374 Feb 06 04:24	15°☿08'50	
	11373 Feb 22 00:27	0°☿			11374 Feb 14 06:08	0°☿	
morning set	11373 Feb 22 20:18	1°☿27'52					
desc. node	11373 Mar 03 05:14	16°☿07'37		superior conj	11374 Feb 16 02:21	3°☿17'39	0°15'20
				minimum elong	11374 Feb 16 03:35	3°☿23'09	0°15'31
superior conj	11373 Mar 06 07:04	21°☿21'26	-0°23'19	behind sun begin	11374 Feb 16 01:44	3°☿14'56	
minimum elong	11373 Mar 06 04:48	21°☿11'55	0°22'48	behind sun end	11374 Feb 16 05:26	3°☿31'22	
	11373 Mar 11 12:14	0°☿		desc. node	11374 Feb 18 01:55	6°☿47'14	
max. Earth dist.	11373 Mar 13 04:44	2°☿44'16	1.43796 AU	max. Earth dist.	11374 Feb 23 17:17	16°☿25'30	1.41988 AU
evening rise	11373 Mar 20 21:06	14°☿53'01		evening rise	11374 Mar 01 01:26	25°☿09'36	
	11373 Mar 30 20:36	0°☿			11374 Mar 04 02:42	0°☿	
evening max el	11373 Apr 20 15:47	27°☿41'35	21°21'54		11374 Mar 24 17:32	0°☿	
	11373 Apr 23 04:02	0°☿		evening max el	11374 Apr 03 09:01	11°☿28'14	22°39'44
asc. node	11373 Apr 26 15:44	2°☿13'45		retrograde	11374 Apr 13 08:07	17°☿21'19	
retrograde	11373 Apr 29 11:25	2°☿51'58		asc. node	11374 Apr 13 13:01	17°☿21'07	
evening set	11373 May 03 20:07	1°☿06'42		evening set	11374 Apr 18 03:56	15°☿20'56	
	11373 May 05 01:07	30°☿		inferior conj	11374 Apr 23 11:54	8°☿57'36	2°41'14
inferior conj	11373 May 09 02:39	24°☿52'20	3°03'04	minimum elong	11374 Apr 23 09:55	9°☿04'30	2°40'24
minimum elong	11373 May 09 01:14	24°☿57'14	3°02'20	min. Earth dist.	11374 Apr 23 05:46	9°☿18'57	0.68731 AU
min. Earth dist.	11373 May 09 09:14	24°☿29'24	0.68546 AU	morning rise	11374 Apr 28 15:47	2°☿48'20	
morning rise	11373 May 14 06:09	18°☿37'10		direct	11374 May 03 05:35	0°☿54'30	
direct	11373 May 19 09:19	16°☿22'45		morning max el	11374 May 12 04:17	6°☿06'14	21°37'29
morning max el	11373 May 29 14:35	22°☿26'44	23°04'16				

desc. node	11374 May 17 03:14	11°♄41'08		morning rise	11375 Apr 13 03:23	17°♄03'49	
	11374 May 30 11:23	0°♄		direct	11375 Apr 17 04:09	15°♄31'39	
morning set	11374 Jun 13 05:24	21°♄00'32		morning max el	11375 Apr 25 00:35	19°♄57'47	20°20'26
	11374 Jun 18 18:57	0°♄			11375 May 03 07:44	0°♄	
max. Earth dist.	11374 Jun 19 12:16	1°♄11'18	1.42026 AU	desc. node	11375 May 04 00:02	0°♄55'40	
				morning set	11375 May 23 10:06	29°♄41'24	
superior conj	11374 Jun 27 01:38	13°♄59'29	-1°44'22		11375 May 23 14:55	0°♄	
minimum elong	11374 Jun 27 08:16	14°♄28'22	1°44'21	max. Earth dist.	11375 Jun 01 20:49	14°♄32'36	1.43862 AU
	11374 Jul 06 00:48	0°♄					
evening rise	11374 Jul 08 02:01	3°♄44'46		superior conj	11375 Jun 07 23:32	24°♄29'05	-2°06'24
asc. node	11374 Jul 10 11:39	8°♄07'37		minimum elong	11375 Jun 08 04:35	24°♄49'55	2°06'51
evening max el	11374 Jul 24 06:19	29°♄21'13	18°09'07		11375 Jun 11 07:04	0°♄	
	11374 Jul 24 22:44	0°♄		evening rise	11375 Jun 20 15:36	16°♄01'49	
retrograde	11374 Jul 31 04:59	2°♄53'05		asc. node	11375 Jun 27 08:34	27°♄36'06	
evening set	11374 Aug 02 12:50	2°♄29'46			11375 Jun 28 19:03	0°♄	
	11374 Aug 06 20:32	30°♄♄		evening max el	11375 Jul 07 19:40	12°♄32'33	18°04'28
inferior conj	11374 Aug 09 14:01	27°♄40'16	1°02'09	retrograde	11375 Jul 14 06:39	15°♄53'30	
minimum elong	11374 Aug 09 15:54	27°♄36'01	1°01'03	evening set	11375 Jul 16 22:26	15°♄18'31	
min. Earth dist.	11374 Aug 12 21:13	24°♄43'18	0.59775 AU	inferior conj	11375 Jul 23 07:54	10°♄10'02	2°05'41
desc. node	11374 Aug 13 02:00	24°♄33'09		minimum elong	11375 Jul 23 10:36	10°♄03'04	2°04'21
morning rise	11374 Aug 16 15:49	21°♄55'31		min. Earth dist.	11375 Jul 26 06:51	7°♄08'21	0.62047 AU
direct	11374 Aug 23 02:44	19°♄57'39		morning rise	11375 Jul 29 20:30	4°♄03'55	
morning max el	11374 Sep 06 10:54	27°♄49'10	27°44'02	desc. node	11375 Jul 30 23:17	3°♄20'08	
	11374 Sep 08 13:33	0°♄		direct	11375 Aug 05 12:54	1°♄41'16	
	11374 Sep 29 04:01	0°♄		morning max el	11375 Aug 19 16:48	9°♄43'18	27°57'11
asc. node	11374 Oct 06 12:33	14°♄07'27			11375 Sep 04 11:03	0°♄	
morning set	11374 Oct 08 11:51	18°♄12'06			11375 Sep 21 09:40	0°♄	
	11374 Oct 13 22:50	0°♄		morning set	11375 Sep 22 12:16	2°♄14'55	
max. Earth dist.	11374 Oct 14 18:11	1°♄47'09	1.31415 AU	asc. node	11375 Sep 23 09:15	4°♄02'50	
				max. Earth dist.	11375 Sep 28 00:00	13°♄50'47	1.31868 AU
superior conj	11374 Oct 15 14:32	3°♄40'13	1°18'52				
minimum elong	11374 Oct 15 12:24	3°♄28'19	1°18'55	superior conj	11375 Sep 30 00:05	18°♄13'21	1°01'09
evening rise	11374 Oct 22 07:41	18°♄28'02		minimum elong	11375 Sep 29 21:52	18°♄01'11	1°00'56
	11374 Oct 27 22:00	0°♄			11375 Oct 05 08:35	0°♄	
desc. node	11374 Nov 08 23:10	20°♄36'00		evening rise	11375 Oct 06 18:36	3°♄04'15	
	11374 Nov 16 06:52	0°♄			11375 Oct 21 01:55	0°♄	
evening max el	11374 Nov 19 10:18	3°♄14'20	25°56'50	desc. node	11375 Oct 26 20:26	8°♄04'56	
retrograde	11374 Dec 03 08:00	10°♄16'41		evening max el	11375 Oct 31 23:22	13°♄44'34	24°27'15
evening set	11374 Dec 09 14:51	8°♄43'37		retrograde	11375 Nov 14 16:57	20°♄37'12	
min. Earth dist.	11374 Dec 13 22:57	6°♄08'01	0.58071 AU	evening set	11375 Nov 19 22:10	19°♄36'58	
inferior conj	11374 Dec 17 00:27	3°♄56'54	-4°45'54	min. Earth dist.	11375 Nov 25 10:37	16°♄47'12	0.56243 AU
minimum elong	11374 Dec 17 08:39	3°♄42'14	4°43'11	inferior conj	11375 Nov 27 20:48	15°♄16'14	-5°37'35
	11374 Dec 23 17:58	30°♄♄		minimum elong	11375 Nov 28 01:45	15°♄08'28	5°36'22
morning rise	11374 Dec 25 05:01	29°♄33'47		morning rise	11375 Dec 06 07:27	11°♄14'27	
direct	11374 Dec 27 09:12	29°♄18'35		direct	11375 Dec 08 19:37	10°♄57'40	
	11374 Dec 30 20:51	0°♄		morning max el	11375 Dec 18 16:23	15°♄40'13	19°39'05
asc. node	11375 Jan 02 12:35	1°♄28'28		asc. node	11375 Dec 20 09:39	17°♄27'19	
morning max el	11375 Jan 04 20:33	3°♄26'10	18°40'22		11375 Dec 28 22:25	0°♄	
morning set	11375 Jan 21 00:06	29°♄20'55		morning set	11376 Jan 05 03:30	13°♄51'58	
	11375 Jan 21 08:08	0°♄					
superior conj	11375 Jan 29 18:09	16°♄11'23	0°47'10	superior conj	11376 Jan 13 01:31	29°♄47'31	1°11'11
minimum elong	11375 Jan 29 20:57	16°♄24'31	0°47'16	minimum elong	11376 Jan 13 04:25	0°♄01'49	1°11'28
desc. node	11375 Feb 04 22:38	27°♄27'44			11376 Jan 13 04:03	0°♄	
max. Earth dist.	11375 Feb 06 01:19	29°♄25'01	1.39849 AU	max. Earth dist.	11376 Jan 19 07:09	11°♄43'01	1.37628 AU
	11375 Feb 06 09:20	0°♄		desc. node	11376 Jan 22 19:25	18°♄04'48	
evening rise	11375 Feb 10 02:33	6°♄21'43		evening rise	11376 Jan 23 00:29	18°♄27'19	
	11375 Feb 25 04:24	0°♄			11376 Jan 29 19:02	0°♄	
evening max el	11375 Mar 16 23:18	25°♄17'10	24°00'15	evening max el	11376 Feb 19 10:38	0°♄	
	11375 Mar 22 16:13	0°♄		retrograde	11376 Feb 27 12:36	9°♄07'20	25°16'59
retrograde	11375 Mar 28 01:46	1°♄48'57			11376 Mar 10 15:18	16°♄08'18	
asc. node	11375 Mar 31 10:19	0°♄56'46		evening set	11376 Mar 16 10:43	13°♄43'41	
	11375 Apr 01 21:05	30°♄♄		asc. node	11376 Mar 17 07:37	12°♄56'18	
evening set	11375 Apr 02 09:20	29°♄35'02		min. Earth dist.	11376 Mar 20 20:12	8°♄52'09	0.67777 AU
min. Earth dist.	11375 Apr 07 02:08	24°♄08'29	0.68471 AU	inferior conj	11376 Mar 22 02:32	7°♄13'36	1°28'35
inferior conj	11375 Apr 07 20:30	23°♄06'06	2°09'43	minimum elong	11376 Mar 22 00:40	7°♄19'42	1°27'55
minimum elong	11375 Apr 07 18:20	23°♄13'29	2°08'51	morning rise	11376 Mar 27 15:00	1°♄19'38	
				direct	11376 Mar 31 03:40	0°♄08'06	

morning max el	11376 Apr 07 04:34	4° Υ 00'02	19°17'25	morning rise	11377 Mar 12 00:34	15° X 32'02	
desc. node	11376 Apr 19 20:46	20° Υ 39'32		direct	11377 Mar 15 02:26	14° X 38'37	
greatest brilliancy	11376 Apr 20 00:27	20° Υ 53'14	-0.7m	morning max el	11377 Mar 21 15:28	18° X 08'53	18°30'24
	11376 Apr 26 01:11	0° B			11377 Mar 30 18:27	0° Υ	
morning set	11376 May 01 11:02	8° B 18'36		desc. node	11377 Apr 06 17:27	10° Υ 44'43	
max. Earth dist.	11376 May 14 11:13	28° B 33'15	1.45123 AU	morning set	11377 Apr 11 06:34	17° Υ 54'56	
	11376 May 15 09:15	0° II			11377 Apr 18 22:46	0° B	
superior conj	11376 May 17 22:11	4° II 01'05	-2°13'03	superior conj	11377 Apr 27 06:06	13° B 00'07	-1°59'37
minimum elong	11376 May 17 21:02	3° II 56'31	2°13'39	minimum elong	11377 Apr 26 22:05	12° B 28'47	1°59'32
evening rise	11376 Jun 01 07:36	27° II 22'03		max. Earth dist.	11377 Apr 27 05:53	12° B 59'17	1.45688 AU
	11376 Jun 02 21:46	0° B			11377 May 08 02:21	0° II	
asc. node	11376 Jun 13 05:34	16° B 42'26		evening rise	11377 May 12 23:22	7° II 42'04	
evening max el	11376 Jun 20 09:25	26° B 01'29	18°18'19	greatest brilliancy	11377 May 21 21:05	21° II 45'48	-0.8m
retrograde	11376 Jun 26 18:33	29° B 25'26			11377 May 27 07:02	0° B	
evening set	11376 Jun 29 18:27	28° B 36'29		asc. node	11377 May 31 02:39	5° B 18'19	
inferior conj	11376 Jul 05 16:04	23° B 10'52	2°46'37	evening max el	11377 Jun 03 20:44	9° B 40'11	18°49'53
minimum elong	11376 Jul 05 18:18	23° B 04'26	2°45'31	retrograde	11377 Jun 10 12:53	13° B 20'17	
min. Earth dist.	11376 Jul 08 01:53	20° B 25'16	0.64163 AU	evening set	11377 Jun 13 21:09	12° B 15'56	
morning rise	11376 Jul 11 16:47	16° B 53'28		inferior conj	11377 Jun 19 10:39	6° B 34'37	3°08'58
desc. node	11376 Jul 16 20:31	14° B 22'37		minimum elong	11377 Jun 19 11:52	6° B 30'49	3°08'09
direct	11376 Jul 18 08:16	14° B 15'02		min. Earth dist.	11377 Jun 21 05:33	4° B 20'34	0.65955 AU
morning max el	11376 Aug 01 02:24	22° B 16'16	27°33'28	morning rise	11377 Jun 25 01:52	0° B 13'07	
	11376 Aug 07 21:15	0° Ω			11377 Jun 25 08:04	30° R II	
	11376 Aug 27 16:29	0° B		direct	11377 Jul 01 10:59	27° II 29'58	
morning set	11376 Sep 05 04:38	15° B 52'35		desc. node	11377 Jul 03 17:41	27° II 48'09	
asc. node	11376 Sep 09 05:58	24° B 05'39			11377 Jul 08 08:49	0° B	
max. Earth dist.	11376 Sep 09 22:50	25° B 33'26	1.32838 AU	morning max el	11377 Jul 14 13:08	5° B 16'28	26°39'18
	11376 Sep 12 01:22	0° B			11377 Aug 02 11:18	0° Ω	
superior conj	11376 Sep 13 05:45	2° B 31'44	0°38'18	morning set	11377 Aug 19 09:48	28° Ω 56'11	
minimum elong	11376 Sep 13 04:01	2° B 22'28	0°37'56		11377 Aug 19 23:14	0° B	
evening rise	11376 Sep 20 05:54	17° B 39'07		max. Earth dist.	11377 Aug 23 11:50	6° B 51'47	1.34321 AU
	11376 Sep 26 06:47	0° B		asc. node	11377 Aug 27 02:41	14° B 11'13	
evening max el	11376 Oct 12 09:58	23° B 50'51	22°46'23	superior conj	11377 Aug 28 05:12	16° B 28'17	0°10'45
desc. node	11376 Oct 12 17:44	24° B 09'31		minimum elong	11377 Aug 28 04:38	16° B 25'21	0°10'23
	11376 Oct 22 09:35	0° X		behind sun begin	11377 Aug 28 00:10	16° B 02'11	
retrograde	11376 Oct 25 13:14	0° X 22'47		behind sun end	11377 Aug 28 09:06	16° B 48'32	
	11376 Oct 28 18:31	30° R B			11377 Sep 03 15:31	0° B	
evening set	11376 Oct 29 07:47	29° B 51'43		evening rise	11377 Sep 04 15:37	2° B 06'27	
min. Earth dist.	11376 Nov 05 18:23	26° B 29'39	0.54997 AU		11377 Sep 20 11:21	0° B	
inferior conj	11376 Nov 06 22:37	25° B 49'22	-5°46'07	evening max el	11377 Sep 24 03:14	4° B 08'39	21°11'11
minimum elong	11376 Nov 06 19:38	25° B 53'38	5°45'24	desc. node	11377 Sep 29 15:05	8° B 20'48	
morning rise	11376 Nov 15 09:03	22° B 00'48		retrograde	11377 Oct 06 00:48	10° B 03'05	
direct	11376 Nov 18 12:25	21° B 38'01		evening set	11377 Oct 08 12:59	9° B 48'25	
morning max el	11376 Nov 29 22:29	27° B 02'40	21°00'28	inferior conj	11377 Oct 17 14:44	5° B 53'32	-4°56'51
	11376 Dec 02 17:43	0° X		minimum elong	11377 Oct 17 05:18	6° B 06'48	4°54'21
asc. node	11376 Dec 06 06:39	4° X 35'27		min. Earth dist.	11377 Oct 18 01:24	5° B 38'30	0.54586 AU
morning set	11376 Dec 19 11:49	28° X 34'15		morning rise	11377 Oct 25 22:09	2° B 02'05	
	11376 Dec 20 04:19	0° B		direct	11377 Oct 29 20:43	1° B 28'42	
superior conj	11376 Dec 26 20:13	13° B 54'20	1°27'31	morning max el	11377 Nov 11 15:51	7° B 36'32	22°40'47
minimum elong	11376 Dec 26 22:23	14° B 05'27	1°28'00	asc. node	11377 Nov 23 03:35	22° B 37'07	
max. Earth dist.	11376 Dec 31 16:13	23° B 38'20	1.35568 AU		11377 Nov 27 07:39	0° X	
	11377 Jan 03 23:35	0° \approx		morning set	11377 Dec 03 22:52	13° X 21'34	
evening rise	11377 Jan 04 16:26	1° \approx 18'56		superior conj	11377 Dec 10 22:51	28° X 22'02	1°36'40
desc. node	11377 Jan 08 16:15	8° \approx 34'38		minimum elong	11377 Dec 10 23:54	28° X 27'39	1°37'20
	11377 Jan 21 20:55	0° X			11377 Dec 11 17:16	0° B	
evening max el	11377 Feb 09 02:11	22° X 55'09	26°22'34	max. Earth dist.	11377 Dec 14 08:38	5° B 32'18	1.33838 AU
	11377 Feb 20 00:47	0° Υ		evening rise	11377 Dec 18 22:41	14° B 47'03	
retrograde	11377 Feb 21 23:38	0° Υ 12'52		desc. node	11377 Dec 26 13:10	28° B 52'39	
	11377 Feb 23 20:44	30° R X			11377 Dec 27 04:38	0° \approx	
evening set	11377 Feb 28 06:23	27° X 41'28			11378 Jan 16 14:39	0° X	
asc. node	11377 Mar 04 04:57	23° X 38'44		evening max el	11378 Jan 22 15:46	6° X 31'53	27°09'35
min. Earth dist.	11377 Mar 04 09:44	23° X 24'27	0.66683 AU	retrograde	11378 Feb 05 01:54	13° X 55'28	
inferior conj	11377 Mar 06 04:00	21° X 15'55	0°37'46	evening set	11378 Feb 11 18:21	11° X 22'30	
minimum elong	11377 Mar 06 03:02	21° X 18'51	0°37'35	min. Earth dist.	11378 Feb 15 16:33	7° X 38'51	0.65219 AU

inferior conj	11378 Feb 17 22:38	5° H 07'57	-0°22'41	inferior conj	11379 Feb 01 07:39	18° \approx 42'15	-1°32'08
minimum elong	11378 Feb 17 23:17	5° H 06'07	0°22'03	minimum elong	11379 Feb 01 10:39	18° \approx 34'43	1°30'24
asc. node	11378 Feb 19 02:15	3° H 51'44		asc. node	11379 Feb 05 23:33	14° \approx 35'18	
	11378 Feb 23 12:11	30° R \approx		morning rise	11379 Feb 08 03:21	13° \approx 26'27	
morning rise	11378 Feb 24 05:44	29° \approx 36'38		direct	11379 Feb 10 12:24	12° \approx 59'06	
direct	11378 Feb 26 22:18	28° \approx 58'03		morning max el	11379 Feb 17 00:55	16° \approx 20'15	17°47'15
	11378 Mar 02 09:10	0° H			11379 Feb 26 19:06	0° H	
morning max el	11378 Mar 05 07:13	2° H 18'23	18°00'13	morning set	11379 Mar 05 09:48	11° H 16'21	
morning set	11378 Mar 23 06:56	28° H 57'32		desc. node	11379 Mar 11 10:46	21° H 36'28	
	11378 Mar 23 22:09	0° Y			11379 Mar 16 11:14	0° Y	
desc. node	11378 Mar 24 14:06	1° Y 05'27					
				superior conj	11379 Mar 17 21:25	2° Y 20'32	-0°47'26
superior conj	11378 Apr 06 16:32	22° Y 12'48	-1°28'14	minimum elong	11379 Mar 17 16:27	2° Y 00'10	0°46'41
minimum elong	11378 Apr 06 07:32	21° Y 37'12	1°27'26	max. Earth dist.	11379 Mar 23 20:52	11° Y 59'35	1.44601 AU
max. Earth dist.	11378 Apr 10 02:11	27° Y 34'21	1.45506 AU	evening rise	11379 Apr 02 06:15	26° Y 39'51	
	11378 Apr 11 15:22	0° B			11379 Apr 04 10:34	0° B	
evening rise	11378 Apr 22 18:55	17° B 17'15			11379 Apr 25 03:13	0° II	
	11378 May 01 02:05	0° II		evening max el	11379 May 01 04:37	7° II 07'32	20°40'35
greatest brilliancy	11378 May 06 10:49	8° II 03'07	-0.7m	asc. node	11379 May 04 21:03	10° II 16'23	
asc. node	11378 May 17 23:49	23° II 14'02		retrograde	11379 May 09 09:35	11° II 54'01	
evening max el	11378 May 18 03:32	23° II 23'27	19°37'58	evening set	11379 May 13 12:20	10° II 17'37	
retrograde	11378 May 25 10:42	27° II 31'53		inferior conj	11379 May 18 18:56	4° II 09'15	3°11'04
evening set	11378 May 29 03:50	26° II 11'30		minimum elong	11379 May 18 18:00	4° II 12'29	3°10'22
inferior conj	11378 Jun 03 12:30	20° II 15'48	3°16'15	min. Earth dist.	11379 May 19 09:03	3° II 20'32	0.68229 AU
minimum elong	11378 Jun 03 12:35	20° II 15'32	3°15'34		11379 May 21 22:31	30° R B	
min. Earth dist.	11378 Jun 04 16:35	18° II 42'27	0.67323 AU	morning rise	11379 May 23 23:26	27° B 51'18	
morning rise	11378 Jun 08 20:57	13° II 54'43		direct	11379 May 29 10:00	25° B 26'57	
direct	11378 Jun 14 19:53	11° II 17'03		desc. node	11379 Jun 07 11:45	0° II 11'02	
desc. node	11378 Jun 20 14:46	13° II 14'04			11379 Jun 07 06:52	0° II	
morning max el	11378 Jun 26 23:29	18° II 33'51	25°23'33	morning max el	11379 Jun 09 09:22	2° II 00'38	23°56'05
	11378 Jul 06 15:02	0° E			11379 Jun 30 15:31	0° E	
	11378 Jul 26 12:34	0° Q		morning set	11379 Jul 14 18:08	22° E 41'18	
morning set	11378 Aug 01 23:54	11° Q 16'23		max. Earth dist.	11379 Jul 18 12:50	29° E 16'16	1.38483 AU
max. Earth dist.	11378 Aug 05 15:10	17° Q 57'47	1.36255 AU		11379 Jul 18 22:41	0° Q	
superior conj	11378 Aug 11 19:38	29° Q 56'03	-0°20'41	superior conj	11379 Jul 25 21:32	12° Q 46'34	-0°54'19
minimum elong	11378 Aug 11 20:56	0° P 02'33	0°20'51	minimum elong	11379 Jul 26 01:14	13° Q 04'10	0°54'14
	11378 Aug 11 20:26	0° P		asc. node	11379 Jul 31 20:17	24° Q 16'37	
asc. node	11378 Aug 13 23:28	4° P 16'04		evening rise	11379 Aug 03 21:16	0° P 15'08	
evening rise	11378 Aug 19 21:38	16° P 20'50			11379 Aug 03 18:11	0° P	
	11378 Aug 26 21:43	0° A		evening max el	11379 Aug 20 05:15	26° P 51'09	18°56'16
evening max el	11378 Sep 06 09:31	15° A 05'57	19°53'05		11379 Aug 24 08:15	0° A	
retrograde	11378 Sep 16 15:40	20° A 12'04		retrograde	11379 Aug 28 21:10	1° A 10'49	
desc. node	11378 Sep 16 12:28	20° A 12'01		evening set	11379 Aug 30 18:19	0° A 59'22	
evening set	11378 Sep 18 13:18	20° A 02'19			11379 Sep 02 16:37	30° R P	
inferior conj	11378 Sep 27 11:30	16° A 01'17	-3°20'07	desc. node	11379 Sep 03 09:50	29° P 38'54	
minimum elong	11378 Sep 27 02:51	16° A 14'29	3°16'58	inferior conj	11379 Sep 08 01:15	26° P 42'17	-1°27'13
min. Earth dist.	11378 Sep 29 10:38	14° A 49'23	0.55117 AU	minimum elong	11379 Sep 07 21:31	26° P 48'51	1°25'52
morning rise	11378 Oct 05 14:56	11° A 46'09		min. Earth dist.	11379 Sep 11 00:34	24° P 37'13	0.56500 AU
direct	11378 Oct 10 09:02	10° A 56'44		morning rise	11379 Sep 15 21:30	21° P 50'26	
morning max el	11378 Oct 24 02:59	17° A 43'48	24°28'43	direct	11379 Sep 21 10:33	20° P 37'26	
	11378 Nov 03 04:13	0° M		morning max el	11379 Oct 05 15:59	27° P 56'55	26°06'54
asc. node	11378 Nov 10 00:28	11° M 19'17			11379 Oct 07 16:41	0° A	
morning set	11378 Nov 18 10:44	28° M 08'14		asc. node	11379 Oct 27 21:18	0° M 31'39	
	11378 Nov 19 07:33	0° X			11379 Oct 27 14:44	0° M	
				morning set	11379 Nov 02 21:45	12° M 49'30	
superior conj	11378 Nov 25 06:41	13° X 02'26	1°39'17				
minimum elong	11378 Nov 25 06:34	13° X 01'50	1°39'56	superior conj	11379 Nov 09 17:29	27° M 48'55	1°35'50
max. Earth dist.	11378 Nov 27 08:53	17° X 35'24	1.32538 AU	minimum elong	11379 Nov 09 16:21	27° M 42'37	1°36'20
evening rise	11378 Dec 02 15:49	28° X 42'29		max. Earth dist.	11379 Nov 10 15:06	29° M 48'42	1.31713 AU
	11378 Dec 03 07:07	0° Z			11379 Nov 10 17:08	0° X	
desc. node	11378 Dec 13 10:11	18° Z 52'36		evening rise	11379 Nov 16 16:55	12° X 57'59	
	11378 Dec 20 08:19	0° \approx			11379 Nov 25 09:49	0° Z	
evening max el	11379 Jan 05 03:44	19° \approx 44'45	27°31'00	desc. node	11379 Nov 30 07:17	8° Z 26'48	
retrograde	11379 Jan 18 21:23	27° \approx 06'42			11379 Dec 16 03:24	0° \approx	
evening set	11379 Jan 25 20:09	24° \approx 39'04		evening max el	11379 Dec 18 11:51	2° \approx 21'19	27°21'07
min. Earth dist.	11379 Jan 29 14:31	21° \approx 25'53	0.63431 AU	retrograde	11380 Jan 01 09:22	9° \approx 37'11	

evening set	11380 Jan 08 08:41	7° \approx 23'43		desc. node	11380 Nov 16 04:26	27° \nearrow 24'05	
min. Earth dist.	11380 Jan 12 02:18	4° \approx 34'25	0.61399 AU		11380 Nov 17 21:59	0° \beth	
inferior conj	11380 Jan 15 03:52	1° \approx 50'53	-2°48'16	evening max el	11380 Nov 29 13:35	14° \beth 10'18	26°37'01
minimum elong	11380 Jan 15 09:37	1° \approx 38'03	2°45'29	retrograde	11380 Dec 13 12:17	21° \beth 17'45	
	11380 Jan 17 07:16	30° \mathbb{R} \beth		evening set	11380 Dec 20 03:55	19° \beth 27'58	
morning rise	11380 Jan 22 13:17	26° \beth 53'35		min. Earth dist.	11380 Dec 24 03:36	16° \beth 51'26	0.59262 AU
asc. node	11380 Jan 23 20:45	26° \beth 36'55		inferior conj	11380 Dec 27 07:40	14° \beth 23'51	-4°05'23
direct	11380 Jan 24 17:11	26° \beth 33'48		minimum elong	11380 Dec 27 15:38	14° \beth 08'22	4°02'16
morning max el	11380 Jan 31 17:19	0° \approx 05'43	17°52'16	morning rise	11381 Jan 04 06:08	9° \beth 47'34	
	11380 Jan 31 14:59	0° \approx		direct	11381 Jan 06 08:34	9° \beth 31'46	
morning set	11380 Feb 16 08:58	24° \approx 32'23		asc. node	11381 Jan 09 17:53	10° \beth 15'02	
	11380 Feb 19 09:29	0° \mathbb{H}		morning max el	11381 Jan 14 04:44	13° \beth 24'01	18°16'43
desc. node	11380 Feb 26 07:27	12° \mathbb{H} 14'03			11381 Jan 25 09:47	0° \approx	
				morning set	11381 Jan 29 22:32	8° \approx 27'53	
superior conj	11380 Feb 27 03:02	13° \mathbb{H} 38'34	-0°06'17	superior conj	11381 Feb 08 07:36	26° \approx 00'36	0°29'46
minimum elong	11380 Feb 27 02:29	13° \mathbb{H} 36'13	0°05'55	minimum elong	11381 Feb 08 09:43	26° \approx 10'14	0°29'52
behind sun begin	11380 Feb 26 18:37	13° \mathbb{H} 02'19			11381 Feb 10 12:46	0° \mathbb{H}	
behind sun end	11380 Feb 27 10:21	14° \mathbb{H} 10'03		desc. node	11381 Feb 12 04:10	2° \mathbb{H} 54'25	
max. Earth dist.	11380 Mar 05 11:30	25° \mathbb{H} 58'36	1.43079 AU	max. Earth dist.	11381 Feb 15 21:27	9° \mathbb{H} 20'28	1.41105 AU
	11380 Mar 07 23:03	0° \mathbb{Y}		evening rise	11381 Feb 20 13:45	17° \mathbb{H} 08'22	
evening rise	11380 Mar 12 00:55	6° \mathbb{Y} 28'37			11381 Feb 28 17:04	0° \mathbb{Y}	
	11380 Mar 27 17:01	0° \mathbb{B}			11381 Mar 22 09:30	0° \mathbb{B}	
evening max el	11380 Apr 13 00:14	20° \mathbb{B} 52'22	21°54'17	evening max el	11381 Mar 26 15:59	4° \mathbb{B} 40'02	23°14'07
asc. node	11380 Apr 20 18:18	26° \mathbb{B} 10'04		retrograde	11381 Apr 06 03:07	10° \mathbb{B} 50'37	
retrograde	11380 Apr 22 07:36	26° \mathbb{B} 21'42		asc. node	11381 Apr 07 15:33	10° \mathbb{B} 39'42	
evening set	11380 Apr 26 20:50	24° \mathbb{B} 29'54		evening set	11381 Apr 11 03:47	8° \mathbb{B} 44'29	
inferior conj	11380 May 02 03:43	18° \mathbb{B} 11'07	2°55'01	min. Earth dist.	11381 Apr 16 01:37	2° \mathbb{B} 57'21	0.68670 AU
minimum elong	11380 May 02 02:02	18° \mathbb{B} 17'02	2°54'15	inferior conj	11381 Apr 16 12:55	2° \mathbb{B} 18'20	2°29'02
min. Earth dist.	11380 May 02 04:49	18° \mathbb{B} 07'19	0.68675 AU	minimum elong	11381 Apr 16 10:48	2° \mathbb{B} 25'39	2°28'11
morning rise	11380 May 07 07:02	11° \mathbb{B} 58'06			11381 Apr 18 05:47	30° \mathbb{R} \mathbb{Y}	
direct	11380 May 12 04:25	9° \mathbb{B} 52'12		morning rise	11381 Apr 21 17:44	26° \mathbb{Y} 11'39	
morning max el	11380 May 21 20:39	15° \mathbb{B} 34'24	22°26'30	direct	11381 Apr 26 01:56	24° \mathbb{Y} 26'50	
desc. node	11380 May 24 08:40	18° \mathbb{B} 14'47		morning max el	11381 May 04 12:43	29° \mathbb{Y} 18'12	21°03'10
	11380 Jun 02 14:51	0° \mathbb{I}			11381 May 05 05:09	0° \mathbb{B}	
	11380 Jun 22 15:34	0° \mathbb{E}		desc. node	11381 May 11 05:30	7° \mathbb{B} 07'28	
morning set	11380 Jun 24 11:37	2° \mathbb{E} 58'09			11381 May 27 06:19	0° \mathbb{I}	
max. Earth dist.	11380 Jun 29 11:02	11° \mathbb{E} 13'07	1.40778 AU	morning set	11381 Jun 04 03:25	12° \mathbb{I} 06'34	
				max. Earth dist.	11381 Jun 11 15:19	24° \mathbb{I} 04'24	1.42862 AU
superior conj	11380 Jul 07 06:33	24° \mathbb{E} 49'14	-1°27'21		11381 Jun 15 05:46	0° \mathbb{E}	
minimum elong	11380 Jul 07 12:32	25° \mathbb{E} 16'05	1°27'12				
	11380 Jul 10 03:08	0° \mathbb{Q}		superior conj	11381 Jun 18 18:17	5° \mathbb{E} 55'04	-1°55'10
evening rise	11380 Jul 17 11:05	13° \mathbb{Q} 39'43		minimum elong	11381 Jun 19 00:47	6° \mathbb{E} 22'39	1°55'20
asc. node	11380 Jul 17 17:08	14° \mathbb{Q} 08'11		evening rise	11381 Jun 30 10:53	26° \mathbb{E} 24'34	
	11380 Jul 26 13:00	0° \mathbb{P}			11381 Jul 02 11:03	0° \mathbb{Q}	
evening max el	11380 Aug 02 11:01	9° \mathbb{P} 17'33	18°20'36	asc. node	11381 Jul 04 14:02	3° \mathbb{Q} 46'40	
retrograde	11380 Aug 09 21:28	13° \mathbb{P} 02'21		evening max el	11381 Jul 16 22:45	22° \mathbb{Q} 15'39	18°04'55
evening set	11380 Aug 12 00:50	12° \mathbb{P} 44'29		retrograde	11381 Jul 23 15:01	25° \mathbb{Q} 40'45	
inferior conj	11380 Aug 19 12:36	8° \mathbb{P} 07'12	0°14'12	evening set	11381 Jul 26 02:20	25° \mathbb{Q} 12'43	
minimum elong	11380 Aug 19 13:05	8° \mathbb{P} 06'10	0°13'40	inferior conj	11381 Aug 01 20:23	20° \mathbb{Q} 15'06	1°32'02
transit middle	11380 Aug 19 13:05	8° \mathbb{P} 06'10	0°13'40	minimum elong	11381 Aug 01 22:49	20° \mathbb{Q} 09'15	1°30'44
transit begin	11380 Aug 19 11:13	8° \mathbb{P} 10'01		min. Earth dist.	11381 Aug 05 01:02	17° \mathbb{Q} 13'22	0.60748 AU
transit end	11380 Aug 19 14:57	8° \mathbb{P} 02'19		desc. node	11381 Aug 07 04:29	15° \mathbb{Q} 24'35	
desc. node	11380 Aug 20 07:11	7° \mathbb{P} 28'39		morning rise	11381 Aug 08 16:32	14° \mathbb{Q} 20'16	
min. Earth dist.	11380 Aug 22 20:50	5° \mathbb{P} 22'56	0.58487 AU	direct	11381 Aug 15 06:51	12° \mathbb{Q} 10'48	
morning rise	11380 Aug 26 21:49	2° \mathbb{P} 39'29		morning max el	11381 Aug 29 13:24	20° \mathbb{Q} 07'33	27°54'19
direct	11380 Sep 02 02:38	0° \mathbb{P} 57'38			11381 Sep 07 00:39	0° \mathbb{P}	
morning max el	11380 Sep 16 11:11	8° \mathbb{P} 40'19	27°18'46		11381 Sep 25 14:42	0° \mathbb{Q}	
	11380 Oct 02 16:30	0° \mathbb{L}		asc. node	11381 Sep 30 14:49	9° \mathbb{L} 54'24	
asc. node	11380 Oct 13 18:04	20° \mathbb{L} 05'21		morning set	11381 Oct 01 10:01	11° \mathbb{L} 33'32	
morning set	11380 Oct 17 06:06	27° \mathbb{L} 19'25		max. Earth dist.	11381 Oct 07 08:04	24° \mathbb{L} 16'30	1.31549 AU
	11380 Oct 18 12:11	0° \mathbb{M}					
superior conj	11380 Oct 24 05:14	12° \mathbb{M} 34'21	1°26'40	superior conj	11381 Oct 08 16:07	27° \mathbb{L} 13'34	1°12'01
minimum elong	11380 Oct 24 03:21	12° \mathbb{M} 23'53	1°26'53	minimum elong	11381 Oct 08 13:53	27° \mathbb{L} 01'12	1°11'56
max. Earth dist.	11380 Oct 23 23:59	12° \mathbb{M} 05'04	1.31380 AU		11381 Oct 09 22:08	0° \mathbb{M}	
evening rise	11380 Oct 30 23:26	27° \mathbb{M} 25'52		evening rise	11381 Oct 15 09:19	12° \mathbb{M} 00'49	
	11380 Nov 01 04:33	0° \mathbb{N}			11381 Oct 24 09:05	0° \mathbb{N}	

desc. node	11381 Nov 03 01:39	15°♊30'32		11382 Oct 01 10:47	0°♍	
evening max el	11381 Nov 11 07:16	25°♊07'47	25°21'15	11382 Oct 18 21:49	0°♊	
	11381 Nov 17 17:38	0°♊		11382 Oct 20 22:55	2°♊26'50	
retrograde	11381 Nov 25 03:58	2°♊05'49		evening max el	11382 Oct 23 18:24	5°♊24'10 23°44'43
evening set	11381 Dec 01 01:17	0°♊46'52		retrograde	11382 Nov 06 07:06	12°♊09'23
	11381 Dec 02 16:09	30°♋♊		evening set	11382 Nov 10 22:27	11°♊22'27
min. Earth dist.	11381 Dec 05 19:25	28°♊07'24	0.57248 AU	min. Earth dist.	11382 Nov 17 04:41	8°♊21'19 0.55629 AU
inferior conj	11381 Dec 08 15:58	26°♊12'03	-5°11'38	inferior conj	11382 Nov 19 03:53	7°♊11'00 -5°47'42
minimum elong	11381 Dec 08 23:26	25°♊59'27	5°09'30	minimum elong	11382 Nov 19 05:50	7°♊08'05 5°47'00
morning rise	11381 Dec 16 23:52	21°♊58'01		morning rise	11382 Nov 27 15:07	3°♊16'30
direct	11381 Dec 19 06:36	21°♊42'33		direct	11382 Nov 30 09:13	2°♊57'35
asc. node	11381 Dec 27 14:59	25°♊26'21		morning max el	11382 Dec 10 21:23	7°♊56'53 20°11'00
morning max el	11381 Dec 28 07:15	26°♊04'13	19°02'27	asc. node	11382 Dec 14 12:03	11°♊56'55
	11381 Dec 31 18:07	0°♊			11382 Dec 25 10:37	0°♊
morning set	11382 Jan 13 21:54	22°♊49'13		morning set	11382 Dec 29 03:46	7°♊26'47
	11382 Jan 17 12:58	0°♋				
				superior conj	11383 Jan 05 19:16	23°♊04'43 1°19'01
superior conj	11382 Jan 22 06:32	9°♋13'31	0°58'20	minimum elong	11383 Jan 05 21:55	23°♊18'04 1°19'23
minimum elong	11382 Jan 22 09:32	9°♋27'48	0°58'29		11383 Jan 09 07:14	0°♋
max. Earth dist.	11382 Jan 29 04:18	22°♋02'03	1.38905 AU	max. Earth dist.	11383 Jan 11 11:25	4°♋10'31 1.36724 AU
desc. node	11382 Jan 30 00:54	23°♋33'46		evening rise	11383 Jan 15 06:04	11°♋10'49
evening rise	11382 Feb 01 23:59	28°♋44'02		desc. node	11383 Jan 16 21:42	14°♋08'39
	11382 Feb 02 17:44	0°♌			11383 Jan 26 08:36	0°♌
	11382 Feb 22 03:28	0°♍			11383 Feb 17 12:17	0°♍
evening max el	11382 Mar 09 05:50	18°♍30'27	24°33'52	evening max el	11383 Feb 19 19:14	2°♍20'49 25°46'33
retrograde	11382 Mar 20 19:00	25°♍15'16		retrograde	11383 Mar 04 06:17	9°♍29'52
asc. node	11382 Mar 25 12:50	23°♍33'50		evening set	11383 Mar 10 06:50	7°♍01'38
evening set	11382 Mar 26 07:38	22°♍56'36		asc. node	11383 Mar 12 10:09	4°♍57'09
min. Earth dist.	11382 Mar 30 21:14	17°♍45'00	0.68230 AU	min. Earth dist.	11383 Mar 14 13:33	2°♍25'09 0.67369 AU
inferior conj	11382 Mar 31 20:39	16°♍26'49	1°53'26	inferior conj	11383 Mar 16 01:01	0°♍32'58 1°08'15
minimum elong	11382 Mar 31 18:32	16°♍33'53	1°52'38	minimum elong	11383 Mar 15 23:27	0°♍37'56 1°07'43
morning rise	11382 Apr 06 05:35	10°♍27'53			11383 Mar 16 11:27	30°♋♌
direct	11382 Apr 10 01:12	9°♍04'30		morning rise	11383 Mar 21 16:38	24°♌43'16
morning max el	11382 Apr 17 12:11	13°♍14'10	19°51'45	direct	11383 Mar 25 00:36	23°♌39'47
desc. node	11382 Apr 28 02:16	26°♍35'25		morning max el	11383 Mar 31 19:24	27°♌20'35 18°55'24
	11382 Apr 30 11:00	0°♎			11383 Apr 03 06:08	0°♍
morning set	11382 May 14 03:36	20°♎37'19		greatest brilliancy	11383 Apr 14 12:53	15°♍50'53 -0.8m
	11382 May 20 04:46	0°♎		desc. node	11383 Apr 14 22:59	16°♍29'22
max. Earth dist.	11382 May 25 03:02	7°♎45'53	1.44483 AU	morning set	11383 Apr 23 10:15	29°♍34'00
					11383 Apr 23 16:56	0°♎
superior conj	11382 May 30 05:52	15°♎58'32	-2°11'29	max. Earth dist.	11383 May 07 20:01	22°♎01'06 1.45460 AU
minimum elong	11382 May 30 08:48	16°♎10'22	2°12'05			
	11382 Jun 07 17:57	0°♏		superior conj	11383 May 09 20:31	25°♎11'26 -2°09'52
evening rise	11382 Jun 12 15:46	8°♏18'04		minimum elong	11383 May 09 16:05	24°♎53'59 2°10'15
asc. node	11382 Jun 21 10:59	23°♏06'13			11383 May 12 21:44	0°♎
	11382 Jun 25 23:03	0°♏		evening rise	11383 May 24 21:33	19°♎12'35
evening max el	11382 Jun 30 12:39	5°♏35'07	18°08'09		11383 May 31 13:25	0°♏
retrograde	11382 Jul 06 21:33	8°♏55'28		asc. node	11383 Jun 08 08:01	12°♏00'27
evening set	11382 Jul 09 16:53	8°♏14'36		evening max el	11383 Jun 14 01:36	19°♏08'21 18°29'33
inferior conj	11382 Jul 15 20:48	2°♏58'23	2°25'33	retrograde	11383 Jun 20 12:44	22°♏37'51
minimum elong	11382 Jul 15 23:24	2°♏51'18	2°24'18	evening set	11383 Jun 23 16:07	21°♏42'26
min. Earth dist.	11382 Jul 18 14:25	0°♏01'37	0.62981 AU	inferior conj	11383 Jun 29 09:50	16°♏09'39 2°58'09
	11382 Jul 18 15:03	30°♋♏		minimum elong	11383 Jun 29 11:40	16°♏04'09 2°57'10
morning rise	11382 Jul 22 04:08	26°♏46'36		min. Earth dist.	11383 Jul 01 13:16	13°♏36'08 0.64972 AU
desc. node	11382 Jul 25 01:44	25°♏03'56		morning rise	11383 Jul 05 06:10	9°♏49'36
direct	11382 Jul 28 20:54	24°♏16'17		direct	11383 Jul 11 19:19	7°♏08'07
	11382 Aug 09 10:29	0°♏		desc. node	11383 Jul 11 22:57	7°♏08'12
morning max el	11382 Aug 11 21:08	2°♏18'32	27°51'23	morning max el	11383 Jul 25 07:43	15°♏04'57 27°13'43
	11382 Sep 01 09:11	0°♐			11383 Aug 06 12:22	0°♏
morning set	11382 Sep 15 07:19	25°♐26'01			11383 Aug 25 02:52	0°♐
asc. node	11382 Sep 17 11:34	29°♐53'17		morning set	11383 Aug 29 19:20	8°♐49'53
	11382 Sep 17 12:51	0°♑		max. Earth dist.	11383 Sep 03 06:34	17°♐45'02 1.33405 AU
max. Earth dist.	11382 Sep 20 11:30	6°♑12'32	1.32219 AU	asc. node	11383 Sep 04 08:18	19°♐57'27
superior conj	11382 Sep 23 00:16	11°♑40'48	0°52'05	superior conj	11383 Sep 07 03:35	25°♐50'03 0°27'08
minimum elong	11382 Sep 22 22:11	11°♑29'27	0°51'46	minimum elong	11383 Sep 07 02:16	25°♐43'03 0°26'45
evening rise	11382 Sep 29 20:38	26°♑37'06			11383 Sep 09 02:30	0°♑

evening rise	11383 Sep 14 07:31	11°♄09'05		superior conj	11384 Aug 20 23:36	9°♄35'33	-0°02'13
	11383 Sep 23 22:38	0°♄		minimum elong	11384 Aug 20 23:45	9°♄36'18	0°02'30
evening max el	11383 Oct 05 06:27	15°♄29'41	22°04'21	behind sun begin	11384 Aug 20 17:47	9°♄05'56	
desc. node	11383 Oct 07 20:15	17°♄46'43		behind sun end	11384 Aug 21 05:42	10°♄06'43	
retrograde	11383 Oct 17 23:03	21°♄48'36		asc. node	11384 Aug 21 05:05	10°♄03'37	
evening set	11383 Oct 21 03:16	21°♄26'07		evening rise	11384 Aug 28 15:59	25°♄31'51	
min. Earth dist.	11383 Oct 29 11:35	17°♄45'30	0.54700 AU		11384 Aug 30 20:15	0°♄	
inferior conj	11383 Oct 30 00:00	17°♄28'05	-5°32'26	evening max el	11384 Sep 16 04:51	26°♄02'16	20°35'32
minimum elong	11383 Oct 29 17:35	17°♄37'05	5°31'07		11384 Sep 21 08:50	0°♄	
morning rise	11383 Nov 07 09:18	13°♄41'06		desc. node	11384 Sep 23 17:37	1°♄01'13	
direct	11383 Nov 10 20:21	13°♄14'37		retrograde	11384 Sep 27 10:36	1°♄36'59	
morning max el	11383 Nov 22 21:44	18°♄57'35	21°41'25	evening set	11384 Sep 29 14:10	1°♄25'38	
asc. node	11383 Dec 01 09:03	29°♄29'31			11384 Oct 03 23:50	30°♄	
	11383 Dec 01 16:56	0°♄		inferior conj	11384 Oct 08 16:18	27°♄29'54	-4°20'04
morning set	11383 Dec 13 13:32	22°♄12'10		minimum elong	11384 Oct 08 06:19	27°♄44'18	4°16'57
	11383 Dec 17 06:01	0°♄		min. Earth dist.	11384 Oct 09 19:36	26°♄50'27	0.54689 AU
				morning rise	11384 Oct 16 22:08	23°♄30'18	
superior conj	11383 Dec 20 17:45	7°♄21'57	1°32'13	direct	11384 Oct 21 04:51	22°♄50'55	
minimum elong	11383 Dec 20 19:28	7°♄30'55	1°32'48	morning max el	11384 Nov 03 11:35	29°♄17'06	23°26'44
max. Earth dist.	11383 Dec 24 23:12	16°♄02'47	1.34780 AU		11384 Nov 04 05:24	0°♄	
evening rise	11383 Dec 29 04:32	24°♄19'04		asc. node	11384 Nov 17 05:59	17°♄49'47	
	11384 Jan 01 05:34	0°♄			11384 Nov 23 16:35	0°♄	
desc. node	11384 Jan 03 18:35	4°♄34'09		morning set	11384 Nov 27 01:07	6°♄59'31	
	11384 Jan 19 22:23	0°♄					
evening max el	11384 Feb 02 08:42	16°♄04'29	26°45'06	superior conj	11384 Dec 03 22:55	21°♄56'00	1°38'32
retrograde	11384 Feb 15 12:17	23°♄26'29		minimum elong	11384 Dec 03 23:28	21°♄58'59	1°39'13
evening set	11384 Feb 21 23:31	20°♄53'19		max. Earth dist.	11384 Dec 06 18:42	27°♄58'13	1.33224 AU
min. Earth dist.	11384 Feb 26 00:26	16°♄50'57	0.66109 AU		11384 Dec 07 17:53	0°♄	
asc. node	11384 Feb 27 07:28	15°♄20'00		evening rise	11384 Dec 11 15:48	7°♄59'48	
inferior conj	11384 Feb 27 23:53	14°♄31'30	0°13'19	desc. node	11384 Dec 20 15:33	24°♄45'09	
minimum elong	11384 Feb 27 23:31	14°♄32'35	0°13'26		11384 Dec 23 17:55	0°♄	
transit middle	11384 Feb 27 23:31	14°♄32'35	0°13'26	evening max el	11385 Jan 14 21:44	29°♄32'23	27°22'12
transit begin	11384 Feb 27 21:54	14°♄37'19			11385 Jan 15 09:26	0°♄	
transit end	11384 Feb 28 01:07	14°♄27'51		retrograde	11385 Jan 28 12:00	6°♄56'46	
morning rise	11384 Mar 05 00:41	8°♄52'55		evening set	11385 Feb 04 07:30	4°♄25'07	
direct	11384 Mar 07 22:20	8°♄06'23		min. Earth dist.	11385 Feb 08 03:49	0°♄54'47	0.64493 AU
morning max el	11384 Mar 14 08:46	11°♄31'06	18°15'27		11385 Feb 09 00:33	30°♄	
	11384 Mar 27 15:06	0°♄		inferior conj	11385 Feb 10 14:47	28°♄16'55	-0°51'06
desc. node	11384 Mar 31 19:40	6°♄41'46		minimum elong	11385 Feb 10 16:21	28°♄12'43	0°50'02
morning set	11384 Apr 02 17:39	9°♄46'10		asc. node	11385 Feb 13 04:47	25°♄38'35	
	11384 Apr 15 11:20	0°♄		morning rise	11385 Feb 17 03:02	22°♄51'46	
				direct	11385 Feb 19 16:01	22°♄18'34	
superior conj	11384 Apr 18 03:14	4°♄10'29	-1°48'04	morning max el	11385 Feb 26 01:43	25°♄38'21	17°52'28
minimum elong	11384 Apr 17 17:56	3°♄34'05	1°47'38		11385 Mar 01 18:54	0°♄	
max. Earth dist.	11384 Apr 19 15:23	6°♄31'53	1.45701 AU	morning set	11385 Mar 15 05:56	21°♄23'09	
evening rise	11384 May 04 03:46	29°♄10'37		desc. node	11385 Mar 18 16:20	27°♄07'21	
	11384 May 04 16:25	0°♄			11385 Mar 20 09:56	0°♄	
greatest brilliancy	11384 May 15 06:24	16°♄24'31	-0.8m				
	11384 May 24 22:10	0°♄		superior conj	11385 Mar 28 20:03	13°♄43'03	-1°11'29
asc. node	11384 May 25 05:08	0°♄20'52		minimum elong	11385 Mar 28 12:27	13°♄12'33	1°10'37
evening max el	11384 May 27 11:09	2°♄49'29	19°08'23	max. Earth dist.	11385 Apr 02 10:45	21°♄02'48	1.45205 AU
retrograde	11384 Jun 03 08:58	6°♄40'41			11385 Apr 08 04:12	0°♄	
evening set	11384 Jun 06 20:49	5°♄29'44		evening rise	11385 Apr 13 17:49	8°♄35'05	
inferior conj	11384 Jun 12 07:54	29°♄42'04	3°13'44		11385 Apr 27 23:01	0°♄	
minimum elong	11384 Jun 12 08:37	29°♄39'43	3°12'58	greatest brilliancy	11385 Apr 28 18:02	1°♄09'17	-0.6m
	11384 Jun 12 02:20	30°♄		evening max el	11385 May 10 15:35	16°♄33'29	20°03'04
min. Earth dist.	11384 Jun 13 20:28	27°♄44'18	0.66588 AU	asc. node	11385 May 12 02:19	17°♄55'41	
morning rise	11384 Jun 17 19:51	23°♄20'01		retrograde	11385 May 18 07:25	20°♄57'10	
direct	11384 Jun 24 00:55	20°♄37'58		evening set	11385 May 22 04:29	19°♄30'09	
desc. node	11384 Jun 27 20:05	21°♄28'36		inferior conj	11385 May 27 11:59	13°♄29'04	3°15'27
morning max el	11384 Jul 06 18:35	28°♄14'37	26°09'06	minimum elong	11385 May 27 11:36	13°♄30'20	3°14'47
	11384 Jul 08 10:44	0°♄		min. Earth dist.	11385 May 28 10:06	12°♄14'10	0.67767 AU
	11384 Jul 30 06:12	0°♄		morning rise	11385 Jun 01 18:24	7°♄08'59	
morning set	11384 Aug 11 18:41	21°♄37'04		direct	11385 Jun 07 12:21	4°♄35'51	
max. Earth dist.	11384 Aug 15 15:09	28°♄55'42	1.35088 AU	desc. node	11385 Jun 14 17:08	7°♄36'28	
	11384 Aug 16 04:23	0°♄		morning max el	11385 Jun 19 04:24	11°♄36'02	24°47'04
					11385 Jul 03 21:39	0°♄	

	11385 Jul 22 23:35	0°♎		morning set	11386 Jul 06 09:00	14°♊32'03	
morning set	11385 Jul 25 00:54	3°♎35'12		max. Earth dist.	11386 Jul 10 12:08	21°♊34'22	1.39480 AU
max. Earth dist.	11385 Jul 28 14:52	10°♎01'22	1.37179 AU		11386 Jul 15 06:20	0°♎	
superior conj	11385 Aug 04 09:08	22°♎48'42	-0°34'49	superior conj	11386 Jul 18 04:23	5°♎20'25	-1°08'37
minimum elong	11385 Aug 04 11:25	22°♎59'50	0°34'52	minimum elong	11386 Jul 18 09:09	5°♎42'29	1°08'29
asc. node	11385 Aug 08 01:49	0°♎06'54		asc. node	11386 Jul 25 22:38	20°♎04'16	
	11385 Aug 08 00:26	0°♎		evening rise	11386 Jul 27 15:27	23°♎21'10	
evening rise	11385 Aug 12 19:35	9°♎38'18			11386 Jul 31 02:58	0°♎	
	11385 Aug 23 22:27	0°♎		evening max el	11386 Aug 12 17:40	19°♎24'01	18°38'29
evening max el	11385 Aug 29 17:12	7°♎20'20	19°26'17	retrograde	11386 Aug 20 19:28	23°♎26'56	
retrograde	11385 Sep 08 06:07	12°♎05'04		evening set	11386 Aug 22 19:01	23°♎13'08	
evening set	11385 Sep 10 02:23	11°♎55'12		desc. node	11386 Aug 28 12:20	20°♎24'43	
desc. node	11385 Sep 10 14:59	11°♎48'55		inferior conj	11386 Aug 30 17:49	18°♎47'18	-0°41'38
inferior conj	11385 Sep 18 19:06	7°♎48'35	-2°32'10	minimum elong	11386 Aug 30 16:08	18°♎50'28	0°41'11
minimum elong	11385 Sep 18 12:23	7°♎59'25	2°29'37	min. Earth dist.	11386 Sep 02 22:38	16°♎23'34	0.57300 AU
min. Earth dist.	11385 Sep 21 06:36	6°♎12'51	0.55618 AU	morning rise	11386 Sep 07 09:50	13°♎39'48	
morning rise	11385 Sep 26 19:59	3°♎18'42		direct	11386 Sep 13 06:15	12°♎14'59	
direct	11385 Oct 01 22:42	2°♎19'46		morning max el	11386 Sep 27 13:30	19°♎44'25	26°41'32
morning max el	11385 Oct 15 22:23	9°♎21'44	25°12'44		11386 Oct 06 07:47	0°♎	
	11385 Oct 31 08:12	0°♎		asc. node	11386 Oct 21 23:38	26°♎07'57	
asc. node	11385 Nov 04 02:51	6°♎45'38			11386 Oct 23 21:56	0°♎	
morning set	11385 Nov 11 12:47	21°♎43'48		morning set	11386 Oct 26 22:50	6°♎20'31	
	11385 Nov 15 07:53	0°♎		superior conj	11386 Nov 02 19:35	21°♎25'30	1°32'37
superior conj	11385 Nov 18 08:13	6°♎39'16	1°38'32	minimum elong	11386 Nov 02 18:06	21°♎17'12	1°33'01
minimum elong	11385 Nov 18 07:39	6°♎36'07	1°39'08	max. Earth dist.	11386 Nov 03 05:39	22°♎21'32	1.31513 AU
max. Earth dist.	11385 Nov 19 21:43	10°♎05'15	1.32126 AU		11386 Nov 06 16:37	0°♎	
evening rise	11385 Nov 25 12:38	22°♎04'28		evening rise	11386 Nov 09 16:17	6°♎25'48	
	11385 Nov 29 11:34	0°♎			11386 Nov 22 00:34	0°♎	
desc. node	11385 Dec 07 12:36	14°♎35'08		desc. node	11386 Nov 24 09:43	3°♎55'02	
	11385 Dec 17 15:07	0°♎		evening max el	11386 Dec 10 14:26	24°♎49'51	27°06'39
evening max el	11385 Dec 28 08:36	12°♎32'12	27°31'05		11386 Dec 17 10:28	0°♎	
retrograde	11386 Jan 11 04:27	19°♎51'36		retrograde	11386 Dec 24 12:21	2°♎01'26	
evening set	11386 Jan 18 04:05	17°♎29'17		evening set	11386 Dec 31 09:43	29°♎57'02	
min. Earth dist.	11386 Jan 21 21:46	14°♎26'59	0.62583 AU		11386 Dec 31 07:42	30°♎	
inferior conj	11386 Jan 24 18:48	11°♎41'53	-2°03'51	min. Earth dist.	11387 Jan 04 04:53	27°♎14'59	0.60488 AU
minimum elong	11386 Jan 24 22:56	11°♎31'57	2°01'37	inferior conj	11387 Jan 07 08:26	24°♎36'28	-3°21'27
asc. node	11386 Jan 31 02:02	6°♎51'17		minimum elong	11387 Jan 07 15:17	24°♎22'02	3°18'22
morning rise	11386 Jan 31 20:13	6°♎33'15		morning rise	11387 Jan 14 23:36	19°♎47'43	
direct	11386 Feb 03 02:44	6°♎09'32		direct	11387 Jan 17 02:29	19°♎29'56	
morning max el	11386 Feb 09 19:13	9°♎34'19	17°47'05	asc. node	11387 Jan 17 23:14	19°♎32'59	
	11386 Feb 23 09:29	0°♎		morning max el	11387 Jan 24 09:53	23°♎09'06	18°00'17
morning set	11386 Feb 25 18:20	4°♎09'40			11387 Jan 29 19:38	0°♎	
desc. node	11386 Mar 05 13:00	17°♎42'02		morning set	11387 Feb 09 00:16	17°♎44'38	
					11387 Feb 15 16:43	0°♎	
superior conj	11386 Mar 09 11:18	24°♎20'46	-0°29'37	superior conj	11387 Feb 19 03:09	6°♎07'31	0°09'51
minimum elong	11386 Mar 09 08:22	24°♎08'28	0°29'01	minimum elong	11387 Feb 19 03:59	6°♎11'10	0°10'04
	11386 Mar 12 21:18	0°♎		behind sun begin	11387 Feb 18 21:45	5°♎43'42	
max. Earth dist.	11386 Mar 16 04:11	5°♎20'04	1.44025 AU	behind sun end	11387 Feb 19 10:13	6°♎38'36	
evening rise	11386 Mar 24 06:38	18°♎05'53		desc. node	11387 Feb 20 09:41	8°♎21'20	
	11386 Apr 01 02:38	0°♎		max. Earth dist.	11387 Feb 26 17:27	19°♎06'58	1.42282 AU
	11386 Apr 23 06:56	0°♎		evening rise	11387 Mar 04 08:11	28°♎14'43	
evening max el	11386 Apr 23 14:23	0°♎19'01	21°10'50		11387 Mar 05 10:43	0°♎	
asc. node	11386 Apr 28 23:32	4°♎31'32			11387 Mar 25 18:33	0°♎	
retrograde	11386 May 02 06:01	5°♎22'51		evening max el	11387 Apr 06 08:09	14°♎05'11	22°27'44
evening set	11386 May 06 13:11	3°♎39'48		asc. node	11387 Apr 15 20:47	19°♎51'52	
	11386 May 09 22:35	30°♎		retrograde	11387 Apr 16 03:05	19°♎52'12	
inferior conj	11386 May 11 19:40	27°♎26'56	3°05'29	evening set	11387 Apr 20 21:13	17°♎53'53	
minimum elong	11386 May 11 18:22	27°♎31'26	3°04'46	inferior conj	11387 Apr 26 04:51	11°♎31'34	2°45'09
min. Earth dist.	11386 May 12 04:10	26°♎57'24	0.68485 AU	minimum elong	11387 Apr 26 02:55	11°♎38'15	2°44'21
morning rise	11386 May 16 23:21	21°♎11'06		min. Earth dist.	11387 Apr 26 00:31	11°♎46'37	0.68735 AU
direct	11386 May 22 04:29	18°♎54'00		morning rise	11387 May 01 08:30	5°♎21'20	
morning max el	11386 Jun 01 14:22	25°♎05'31	23°17'36	direct	11387 May 06 00:14	3°♎24'25	
desc. node	11386 Jun 01 14:04	25°♎04'46		morning max el	11387 May 15 03:25	8°♎43'52	21°49'54
	11386 Jun 06 00:43	0°♎		desc. node	11387 May 19 10:56	13°♎31'24	
	11386 Jun 27 08:56	0°♎					

	11387 May 31 16:06	0°♂					11388 May 03 07:25	0°♂			
morning set	11387 Jun 16 15:16	24°♂19'02			desc. node		11388 May 05 07:45	2°♂40'36			
	11387 Jun 20 03:41	0°♂					11388 May 23 22:13	0°♂			
max. Earth dist.	11387 Jun 22 13:06	3°♂56'28	1.41714 AU		morning set		11388 May 25 22:25	3°♂05'58			
					max. Earth dist.		11388 Jun 03 20:24	17°♂09'51	1.43618 AU		
superior conj	11387 Jun 30 04:52	17°♂00'11	-1°40'07								
minimum elong	11387 Jun 30 11:25	17°♂28'55	1°40'04		superior conj		11388 Jun 10 06:26	27°♂39'26	-2°03'55		
	11387 Jul 07 10:48	0°♂			minimum elong		11388 Jun 10 12:01	28°♂02'38	2°04'17		
evening rise	11387 Jul 10 23:54	6°♂30'50					11388 Jun 11 16:08	0°♂			
asc. node	11387 Jul 12 19:30	9°♂51'17			evening rise		11388 Jun 22 16:19	18°♂55'43			
	11387 Jul 25 04:53	0°♂			asc. node		11388 Jun 28 16:24	29°♂22'45			
evening max el	11387 Jul 27 02:24	2°♂05'11	18°11'27				11388 Jun 29 01:09	0°♂			
retrograde	11387 Aug 03 03:50	5°♂40'05			evening max el		11388 Jul 09 15:27	15°♂13'36	18°03'59		
evening set	11387 Aug 05 10:26	5°♂18'20			retrograde		11388 Jul 16 03:32	18°♂35'12			
inferior conj	11387 Aug 12 14:17	0°♂31'57	0°50'18		evening set		11388 Jul 18 18:07	18°♂02'09			
minimum elong	11387 Aug 12 15:52	0°♂28'27	0°49'20		inferior conj		11388 Jul 25 05:42	12°♂56'32	1°57'32		
	11387 Aug 13 04:43	30°♂♂			minimum elong		11388 Jul 25 08:22	12°♂49'45	1°56'12		
desc. node	11387 Aug 15 09:38	28°♂03'47			min. Earth dist.		11388 Jul 28 06:21	9°♂54'01	0.61712 AU		
min. Earth dist.	11387 Aug 15 22:03	27°♂37'32	0.59433 AU		morning rise		11388 Jul 31 20:13	6°♂52'59			
morning rise	11387 Aug 19 18:02	24°♂51'11			desc. node		11388 Aug 01 06:56	6°♂34'57			
direct	11387 Aug 26 03:29	22°♂57'26			direct		11388 Aug 07 12:19	4°♂33'22			
	11387 Sep 08 16:27	0°♂			morning max el		11388 Aug 21 17:05	12°♂34'38	27°57'38		
morning max el	11387 Sep 09 12:03	0°♂47'10	27°38'44				11388 Sep 04 13:34	0°♂			
	11387 Sep 30 11:53	0°♂					11388 Sep 21 21:17	0°♂			
asc. node	11387 Oct 08 20:23	15°♂49'31			morning set		11388 Sep 24 06:58	4°♂51'18			
morning set	11387 Oct 11 05:34	20°♂45'10			asc. node		11388 Sep 24 17:08	5°♂43'36			
	11387 Oct 15 12:30	0°♂			max. Earth dist.		11388 Sep 29 21:19	16°♂44'15	1.31767 AU		
max. Earth dist.	11387 Oct 17 14:51	4°♂38'29	1.31390 AU								
superior conj	11387 Oct 18 07:12	6°♂09'26	1°21'07		superior conj		11388 Oct 01 17:10	20°♂44'32	1°04'12		
minimum elong	11387 Oct 18 05:07	5°♂57'50	1°21'12		minimum elong		11388 Oct 01 14:55	20°♂32'12	1°04'00		
evening rise	11387 Oct 25 00:30	20°♂57'49					11388 Oct 05 21:51	0°♂			
	11387 Oct 29 08:46	0°♂			evening rise		11388 Oct 08 11:12	5°♂33'59			
desc. node	11387 Nov 11 06:53	22°♂33'17					11388 Oct 21 04:29	0°♂			
	11387 Nov 16 18:49	0°♂			desc. node		11388 Oct 28 04:07	10°♂12'52			
evening max el	11387 Nov 22 12:38	6°♂16'22	26°08'09		evening max el		11388 Nov 03 02:47	16°♂53'17	24°41'45		
retrograde	11387 Dec 06 10:42	13°♂20'19			retrograde		11388 Nov 16 21:36	23°♂47'39			
evening set	11387 Dec 12 20:13	11°♂42'37			evening set		11388 Nov 22 07:15	22°♂42'40			
min. Earth dist.	11387 Dec 17 01:38	9°♂07'20	0.58374 AU		min. Earth dist.		11388 Nov 27 14:22	19°♂56'03	0.56488 AU		
inferior conj	11387 Dec 20 04:13	6°♂51'21	-4°35'50		inferior conj		11388 Nov 30 03:39	18°♂18'25	-5°32'00		
minimum elong	11387 Dec 20 12:28	6°♂36'16	4°32'57		minimum elong		11388 Nov 30 09:26	18°♂09'10	5°30'34		
morning rise	11387 Dec 28 07:22	2°♂24'57			morning rise		11388 Dec 08 13:50	14°♂13'34			
direct	11387 Dec 30 10:53	2°♂09'44			direct		11388 Dec 11 00:16	13°♂57'16			
asc. node	11388 Jan 04 20:21	3°♂52'20			morning max el		11388 Dec 20 15:45	18°♂34'22	19°28'50		
morning max el	11388 Jan 07 18:03	6°♂13'00	18°33'34		asc. node		11388 Dec 21 17:26	19°♂39'19			
	11388 Jan 22 19:06	0°♂					11388 Dec 29 04:22	0°♂			
morning set	11388 Jan 23 18:27	1°♂52'29			morning set		11389 Jan 06 20:55	16°♂21'19			
							11389 Jan 13 16:14	0°♂			
superior conj	11388 Feb 01 16:10	18°♂53'15	0°42'50		superior conj		11389 Jan 14 21:29	2°♂23'49	1°08'03		
minimum elong	11388 Feb 01 18:50	19°♂05'40	0°42'55		minimum elong		11389 Jan 15 00:26	2°♂38'16	1°08'17		
desc. node	11388 Feb 07 06:26	29°♂01'55			max. Earth dist.		11389 Jan 21 07:28	14°♂34'15	1.37955 AU		
	11388 Feb 07 19:37	0°♂			desc. node		11389 Jan 24 03:13	19°♂39'56			
max. Earth dist.	11388 Feb 09 01:40	2°♂11'08	1.40177 AU		evening rise		11389 Jan 25 01:01	21°♂16'16			
evening rise	11388 Feb 13 06:01	9°♂17'58					11389 Jan 30 03:40	0°♂			
	11388 Feb 26 09:54	0°♂					11389 Feb 19 09:13	0°♂			
evening max el	11388 Mar 18 22:39	27°♂53'19	23°48'22		evening max el		11389 Mar 01 12:06	11°♂44'04	25°06'11		
	11388 Mar 21 04:45	0°♂			retrograde		11389 Mar 13 11:33	18°♂41'19			
retrograde	11388 Mar 29 21:19	4°♂20'12			evening set		11389 Mar 19 05:10	16°♂18'15			
asc. node	11388 Apr 01 18:04	3°♂41'55			asc. node		11389 Mar 19 15:22	15°♂55'51			
evening set	11388 Apr 04 03:04	2°♂08'13			min. Earth dist.		11389 Mar 23 15:42	11°♂21'27	0.67903 AU		
	11388 Apr 06 05:34	30°♂♂			inferior conj		11389 Mar 24 20:13	9°♂48'03	1°35'29		
min. Earth dist.	11388 Apr 08 21:05	26°♂36'16	0.68533 AU		minimum elong		11389 Mar 24 18:16	9°♂54'28	1°34'46		
inferior conj	11388 Apr 09 13:39	25°♂39'45	2°15'06		morning rise		11389 Mar 30 07:40	3°♂52'39			
minimum elong	11388 Apr 09 11:28	25°♂47'11	2°14'15		direct		11389 Apr 02 22:06	2°♂38'04			
morning rise	11388 Apr 14 19:54	19°♂36'15			morning max el		11389 Apr 10 01:23	6°♂34'19	19°25'50		
direct	11388 Apr 18 22:32	18°♂00'52			desc. node		11389 Apr 22 04:32	22°♂20'56			
morning max el	11388 Apr 26 22:33	22°♂33'24	20°31'06		greatest brilliancy		11389 Apr 22 18:28	23°♂12'19	-0.7m		

	11389 Apr 27 07:21	0°♄		direct	11390 Mar 17 21:10	17°♄10'12	
morning set	11389 May 04 22:26	11°♄39'39		morning max el	11390 Mar 24 11:23	20°♄42'43	18°36'22
	11389 May 16 17:20	0°♄			11390 Mar 31 21:15	0°♄	
max. Earth dist.	11389 May 17 10:10	1°♄06'21	1.44977 AU	desc. node	11390 Apr 09 01:14	12°♄23'31	
				morning set	11390 Apr 14 14:10	21°♄04'35	
superior conj	11389 May 21 08:20	7°♄19'41	-2°13'17		11390 Apr 20 06:38	0°♄	
minimum elong	11389 May 21 08:21	7°♄19'44	2°13'54	max. Earth dist.	11390 Apr 30 04:37	15°♄30'38	1.45653 AU
evening rise	11389 Jun 04 11:49	0°♄25'11					
	11389 Jun 04 05:46	0°♄		superior conj	11390 Apr 30 17:27	16°♄20'50	-2°02'57
asc. node	11389 Jun 15 13:25	18°♄33'10		minimum elong	11390 Apr 30 10:12	15°♄52'29	2°03'00
evening max el	11389 Jun 23 05:25	28°♄40'59	18°15'07		11390 May 09 10:10	0°♄	
	11389 Jun 24 16:34	0°♄		evening rise	11390 May 16 07:11	10°♄53'59	
retrograde	11389 Jun 29 14:08	2°♄03'24		greatest brilliancy	11390 May 24 07:51	23°♄39'44	-0.8m
evening set	11389 Jul 02 12:53	1°♄16'35			11390 May 28 09:54	0°♄	
	11389 Jul 04 10:30	30°♄		asc. node	11390 Jun 02 10:29	7°♄14'21	
inferior conj	11389 Jul 08 12:01	25°♄53'27	2°41'40	evening max el	11390 Jun 06 17:16	12°♄18'43	18°44'04
minimum elong	11389 Jul 08 14:23	25°♄46'46	2°40'30	retrograde	11390 Jun 13 07:48	15°♄55'35	
min. Earth dist.	11389 Jul 10 23:57	23°♄04'25	0.63870 AU	evening set	11390 Jun 16 14:49	14°♄53'30	
morning rise	11389 Jul 14 14:25	19°♄37'19		inferior conj	11390 Jun 22 05:18	9°♄14'16	3°06'36
desc. node	11389 Jul 19 04:11	17°♄15'30		minimum elong	11390 Jun 22 06:41	9°♄09'59	3°05'43
direct	11389 Jul 21 06:28	17°♄00'36		min. Earth dist.	11390 Jun 24 02:23	6°♄54'59	0.65715 AU
morning max el	11389 Aug 04 02:14	25°♄02'19	27°39'04	morning rise	11390 Jun 27 21:46	2°♄53'05	
	11389 Aug 08 14:41	0°♄		direct	11390 Jul 04 08:04	0°♄10'08	
	11389 Aug 29 00:55	0°♄		desc. node	11390 Jul 06 01:21	0°♄20'28	
morning set	11389 Sep 08 00:43	18°♄32'58		morning max el	11390 Jul 17 13:00	7°♄59'26	26°48'58
asc. node	11389 Sep 11 13:53	25°♄45'39			11390 Aug 03 15:42	0°♄	
max. Earth dist.	11389 Sep 12 21:23	28°♄30'12	1.32664 AU		11390 Aug 21 10:12	0°♄	
	11389 Sep 13 14:24	0°♄		morning set	11390 Aug 22 07:48	1°♄42'26	
				max. Earth dist.	11390 Aug 26 12:05	9°♄52'39	1.34071 AU
superior conj	11389 Sep 15 23:35	5°♄05'32	0°42'05	asc. node	11390 Aug 29 10:38	15°♄51'16	
minimum elong	11389 Sep 15 21:44	4°♄55'36	0°41'44				
evening rise	11389 Sep 22 22:35	20°♄09'25		superior conj	11390 Aug 31 00:09	19°♄05'58	0°15'12
	11389 Sep 27 16:36	0°♄		minimum elong	11390 Aug 30 23:22	19°♄01'51	0°14'51
desc. node	11389 Oct 15 01:25	26°♄31'52		behind sun begin	11390 Aug 30 21:09	18°♄50'18	
evening max el	11389 Oct 15 13:19	27°♄01'15	23°01'24	behind sun end	11390 Aug 31 01:35	19°♄13'24	
	11389 Oct 19 01:11	0°♄			11390 Sep 05 03:58	0°♄	
retrograde	11389 Oct 28 19:26	3°♄36'52		evening rise	11390 Sep 07 08:43	4°♄38'40	
evening set	11389 Nov 01 19:24	3°♄02'06			11390 Sep 21 05:24	0°♄	
	11389 Nov 08 12:35	30°♄		evening max el	11390 Sep 27 05:00	7°♄15'14	21°24'26
min. Earth dist.	11389 Nov 08 22:26	29°♄46'00	0.55137 AU	desc. node	11390 Oct 01 22:44	11°♄02'33	
inferior conj	11389 Nov 10 07:53	28°♄57'52	-5°48'25	retrograde	11390 Oct 09 07:48	13°♄16'28	
minimum elong	11389 Nov 10 06:13	29°♄00'17	5°47'48	evening set	11390 Oct 11 23:45	13°♄00'08	
morning rise	11389 Nov 18 18:38	25°♄08'09		inferior conj	11390 Oct 21 00:37	9°♄04'51	-5°07'59
direct	11389 Nov 21 19:29	24°♄46'28		minimum elong	11390 Oct 20 15:44	9°♄17'18	5°05'47
	11389 Dec 02 21:59	0°♄		min. Earth dist.	11390 Oct 21 05:15	8°♄58'21	0.54585 AU
morning max el	11389 Dec 02 23:54	0°♄04'31	20°46'58	morning rise	11390 Oct 29 08:33	5°♄15'24	
asc. node	11389 Dec 08 14:29	6°♄38'12		direct	11390 Nov 02 04:09	4°♄43'59	
	11389 Dec 21 16:31	0°♄		morning max el	11390 Nov 14 18:55	10°♄45'15	22°25'03
morning set	11389 Dec 22 04:41	1°♄02'46		asc. node	11390 Nov 25 11:28	24°♄33'12	
					11390 Nov 28 15:35	0°♄	
superior conj	11389 Dec 29 14:45	16°♄26'55	1°25'29	morning set	11390 Dec 06 15:30	15°♄50'28	
minimum elong	11389 Dec 29 17:03	16°♄38'43	1°25'58		11390 Dec 13 06:30	0°♄	
max. Earth dist.	11390 Jan 03 16:01	26°♄33'02	1.35859 AU				
	11390 Jan 05 11:01	0°♄		superior conj	11390 Dec 13 16:26	0°♄52'47	1°35'42
evening rise	11390 Jan 07 14:32	4°♄01'57		minimum elong	11390 Dec 13 17:40	0°♄59'19	1°36'21
desc. node	11390 Jan 11 00:03	10°♄11'23		max. Earth dist.	11390 Dec 17 07:20	8°♄27'15	1.34070 AU
	11390 Jan 23 01:54	0°♄		evening rise	11390 Dec 21 18:56	17°♄25'46	
evening max el	11390 Feb 12 01:44	25°♄33'11	26°13'51	desc. node	11390 Dec 28 20:57	0°♄31'52	
	11390 Feb 17 08:58	0°♄			11390 Dec 28 13:42	0°♄	
retrograde	11390 Feb 24 20:38	2°♄48'48			11391 Jan 17 09:45	0°♄	
evening set	11390 Mar 03 01:49	0°♄18'09		evening max el	11391 Jan 25 15:20	9°♄12'22	27°03'56
	11390 Mar 03 10:25	30°♄		retrograde	11391 Feb 07 23:48	16°♄35'39	
asc. node	11390 Mar 06 12:43	26°♄47'49		evening set	11391 Feb 14 15:04	14°♄02'23	
min. Earth dist.	11390 Mar 07 06:04	25°♄56'06	0.66872 AU	min. Earth dist.	11391 Feb 18 13:56	10°♄14'03	0.65466 AU
inferior conj	11390 Mar 08 22:32	23°♄51'42	0°46'10	inferior conj	11391 Feb 20 18:20	7°♄45'47	-0°12'51
minimum elong	11390 Mar 08 21:23	23°♄55'13	0°45'52	minimum elong	11391 Feb 20 18:42	7°♄44'46	0°12'23
morning rise	11390 Mar 14 17:43	18°♄06'11		transit middle	11391 Feb 20 18:42	7°♄44'46	0°12'23

transit begin	11391 Feb 20 16:48	7° H 50'10		evening set	11392 Jan 28 18:32	27° \approx 23'12	
transit end	11391 Feb 20 20:36	7° H 39'23		min. Earth dist.	11392 Feb 01 13:17	24° \approx 05'49	0.63718 AU
asc. node	11391 Feb 21 10:01	7° H 01'36		inferior conj	11392 Feb 04 04:56	21° \approx 23'11	-1°21'05
morning rise	11391 Feb 26 23:44	2° H 12'35		minimum elong	11392 Feb 04 07:32	21° \approx 16'32	1°19'31
direct	11391 Mar 01 17:36	1° H 32'02		asc. node	11392 Feb 08 07:17	17° \approx 36'41	
morning max el	11391 Mar 08 02:36	4° H 52'59	18°03'36	morning rise	11392 Feb 10 22:40	16° \approx 04'59	
	11391 Mar 25 06:08	0° Y		direct	11392 Feb 13 08:39	15° \approx 36'16	
morning set	11391 Mar 26 10:07	1° Y 54'13		morning max el	11392 Feb 19 20:13	18° \approx 56'44	17°48'01
desc. node	11391 Mar 26 21:56	2° Y 42'25			11392 Feb 28 00:43	0° H	
				morning set	11392 Mar 07 09:22	14° H 02'44	
superior conj	11391 Apr 10 02:17	25° Y 28'12	-1°33'49	desc. node	11392 Mar 12 18:35	23° H 12'14	
minimum elong	11391 Apr 09 17:00	24° Y 51'37	1°33'05		11392 Mar 16 20:14	0° Y	
	11391 Apr 12 23:27	0° B					
max. Earth dist.	11391 Apr 13 00:50	0° B 05'25	1.45582 AU	superior conj	11392 Mar 20 03:46	5° Y 26'21	-0°53'49
evening rise	11391 Apr 26 05:06	20° B 33'56		minimum elong	11392 Mar 19 22:04	5° Y 03'09	0°53'01
	11391 May 02 08:08	0° II		max. Earth dist.	11392 Mar 25 19:39	14° Y 32'16	1.44778 AU
greatest brilliancy	11391 May 09 06:17	10° II 29'25	-0.7m	evening rise	11392 Apr 04 16:34	29° Y 55'35	
asc. node	11391 May 20 07:37	25° II 16'42			11392 Apr 04 17:43	0° B	
evening max el	11391 May 21 00:46	26° II 01'11	19°29'48		11392 Apr 25 02:29	0° II	
	11391 May 27 06:47	0° B		evening max el	11392 May 03 02:39	9° II 45'09	20°30'30
retrograde	11391 May 28 05:18	0° B 04'53		asc. node	11392 May 06 04:47	12° II 28'05	
	11391 May 29 03:28	30° R II		retrograde	11392 May 11 04:09	14° II 25'43	
evening set	11391 May 31 21:03	28° II 46'54		evening set	11392 May 15 05:21	12° II 51'47	
inferior conj	11391 Jun 06 06:13	22° II 53'08	3°15'59	inferior conj	11392 May 20 12:05	6° II 45'12	3°12'34
minimum elong	11391 Jun 06 06:28	22° II 52'20	3°15'17	minimum elong	11392 May 20 11:18	6° II 47'56	3°11'53
min. Earth dist.	11391 Jun 07 12:27	21° II 13'23	0.67146 AU	min. Earth dist.	11392 May 21 04:16	5° II 49'37	0.68120 AU
morning rise	11391 Jun 11 15:29	16° II 31'40		morning rise	11392 May 25 16:59	0° II 26'33	
direct	11391 Jun 17 16:01	13° II 52'43			11392 May 26 05:20	30° R B	
desc. node	11391 Jun 22 22:28	15° II 29'50		direct	11392 May 31 05:29	27° B 59'44	
morning max el	11391 Jun 29 23:33	21° II 15'12	25°35'50		11392 Jun 05 21:07	0° II	
	11391 Jul 07 13:23	0° B		desc. node	11392 Jun 08 19:29	2° II 14'49	
	11391 Jul 27 20:45	0° Q		morning max el	11392 Jun 11 09:24	4° II 40'57	24°09'27
morning set	11391 Aug 05 00:27	14° Q 10'05			11392 Jun 30 20:45	0° B	
max. Earth dist.	11391 Aug 08 16:50	20° Q 59'54	1.35939 AU	morning set	11392 Jul 16 21:57	25° B 44'17	
	11391 Aug 13 08:18	0° M			11392 Jul 19 08:34	0° Q	
				max. Earth dist.	11392 Jul 20 14:41	2° Q 13'46	1.38137 AU
superior conj	11391 Aug 14 16:08	2° M 38'38	-0°15'44				
minimum elong	11391 Aug 14 17:06	2° M 43'32	0°15'55	superior conj	11392 Jul 27 20:06	15° Q 35'21	-0°49'10
behind sun begin	11391 Aug 14 16:06	2° M 38'31		minimum elong	11392 Jul 27 23:26	15° Q 51'17	0°49'07
behind sun end	11391 Aug 14 18:06	2° M 48'33		asc. node	11392 Aug 02 04:09	25° Q 58'01	
asc. node	11391 Aug 16 07:23	5° M 56'36			11392 Aug 04 05:07	0° M	
evening rise	11391 Aug 22 15:26	18° M 55'36		evening rise	11392 Aug 05 16:11	2° M 53'24	
	11391 Aug 28 05:28	0° B		evening max el	11392 Aug 22 03:03	29° M 44'14	19°03'24
evening max el	11391 Sep 09 09:08	18° B 05'42	20°03'24		11392 Aug 22 09:29	0° B	
desc. node	11391 Sep 18 20:06	23° B 16'25		retrograde	11392 Aug 31 00:13	4° B 10'04	
retrograde	11391 Sep 19 21:31	23° B 19'29		evening set	11392 Sep 01 20:51	3° B 59'13	
evening set	11391 Sep 21 20:08	23° B 09'34		desc. node	11392 Sep 04 17:27	3° B 03'48	
inferior conj	11391 Sep 30 19:47	19° B 10'11	-3°36'38		11392 Sep 09 21:51	30° R M	
minimum elong	11391 Sep 30 10:36	19° B 23'58	3°33'24	inferior conj	11392 Sep 10 06:30	29° M 45'08	-1°44'05
min. Earth dist.	11391 Oct 02 14:04	18° B 06'41	0.54975 AU	minimum elong	11392 Sep 10 01:59	29° M 52'53	1°42'23
morning rise	11391 Oct 08 23:53	14° B 59'34		min. Earth dist.	11392 Sep 13 03:17	27° M 47'15	0.56249 AU
direct	11391 Oct 13 14:58	14° B 13'04		morning rise	11392 Sep 18 04:03	24° M 58'56	
morning max el	11391 Oct 27 06:33	20° B 55'01	24°12'52	direct	11392 Sep 23 14:30	23° M 49'42	
	11391 Nov 04 01:46	0° M			11392 Oct 06 14:36	0° B	
asc. node	11391 Nov 12 08:22	13° M 10'05		morning max el	11392 Oct 07 18:47	1° B 05'10	25°53'32
	11391 Nov 20 20:18	0° X			11392 Oct 27 23:59	0° M	
morning set	11391 Nov 21 03:21	0° X 37'38		asc. node	11392 Oct 29 05:12	2° M 18'22	
				morning set	11392 Nov 04 14:32	15° M 19'36	
superior conj	11391 Nov 27 23:38	15° X 31'56	1°39'17				
minimum elong	11391 Nov 27 23:42	15° X 32'17	1°39'57	superior conj	11392 Nov 11 10:05	0° X 17'38	1°36'44
max. Earth dist.	11391 Nov 30 06:22	20° X 28'13	1.32698 AU	minimum elong	11392 Nov 11 09:06	0° X 12'09	1°37'15
	11391 Dec 04 19:21	0° B			11392 Nov 11 06:54	0° X	
evening rise	11391 Dec 05 10:37	1° B 17'39		max. Earth dist.	11392 Nov 12 11:42	2° X 39'17	1.31805 AU
desc. node	11391 Dec 15 17:55	20° B 34'56		evening rise	11392 Nov 18 10:39	15° X 30'20	
	11391 Dec 21 12:15	0° \approx			11392 Nov 25 19:01	0° B	
evening max el	11392 Jan 08 03:31	22° \approx 29'18	27°29'37	desc. node	11392 Dec 01 14:58	10° B 13'15	
retrograde	11392 Jan 21 20:27	29° \approx 52'17			11392 Dec 15 14:22	0° \approx	

evening max el	11392 Dec 20 12:21	5° \approx 11'53	27°24'46	evening rise	11393 Nov 02 16:31	29° \mathbb{M} 56'54	
retrograde	11393 Jan 03 09:40	12° \approx 28'59			11393 Nov 02 17:06	0° \mathbb{X}	
evening set	11393 Jan 10 09:14	10° \approx 12'58		desc. node	11393 Nov 18 12:06	29° \mathbb{X} 16'58	
min. Earth dist.	11393 Jan 14 02:42	7° \approx 20'32	0.61708 AU		11393 Nov 18 23:14	0° \mathbb{Z}	
inferior conj	11393 Jan 17 03:14	4° \approx 36'04	-2°36'34	evening max el	11393 Dec 02 15:23	17° \mathbb{Z} 09'12	26°45'48
minimum elong	11393 Jan 17 08:34	4° \approx 23'55	2°33'53	retrograde	11393 Dec 16 13:59	24° \mathbb{Z} 17'32	
	11393 Jan 23 09:04	30° \mathbb{R} \mathbb{Z}		evening set	11393 Dec 23 07:21	22° \mathbb{Z} 23'50	
morning rise	11393 Jan 24 10:36	29° \mathbb{Z} 35'45		min. Earth dist.	11393 Dec 27 05:35	19° \mathbb{Z} 46'15	0.59577 AU
asc. node	11393 Jan 25 04:31	29° \mathbb{Z} 24'08		inferior conj	11393 Dec 30 09:45	17° \mathbb{Z} 15'24	-3°54'06
direct	11393 Jan 26 15:01	29° \mathbb{Z} 15'07		minimum elong	11393 Dec 30 17:29	17° \mathbb{Z} 00'02	3°50'57
	11393 Jan 29 19:04	0° \approx		morning rise	11394 Jan 07 06:23	12° \mathbb{Z} 35'41	
morning max el	11393 Feb 02 12:58	2° \approx 45'00	17°50'18	direct	11394 Jan 09 08:47	12° \mathbb{Z} 19'27	
morning set	11393 Feb 18 05:54	27° \approx 11'32		asc. node	11394 Jan 12 01:42	12° \mathbb{Z} 47'40	
	11393 Feb 19 19:25	0° \mathbb{H}		morning max el	11394 Jan 17 01:22	16° \mathbb{Z} 08'10	18°11'47
desc. node	11393 Feb 27 15:14	13° \mathbb{H} 49'02			11394 Jan 26 17:39	0° \approx	
				morning set	11394 Feb 01 17:42	11° \approx 02'42	
superior conj	11393 Mar 01 05:38	16° \mathbb{H} 33'52	-0°12'15	superior conj	11394 Feb 11 07:05	28° \approx 47'32	0°24'45
minimum elong	11393 Mar 01 04:31	16° \mathbb{H} 29'06	0°11'51	minimum elong	11394 Feb 11 08:56	28° \approx 55'51	0°24'52
behind sun begin	11393 Feb 28 22:42	16° \mathbb{H} 04'14			11394 Feb 11 23:13	0° \mathbb{H}	
behind sun end	11393 Mar 01 10:20	16° \mathbb{H} 53'55		desc. node	11394 Feb 14 11:56	4° \mathbb{H} 29'24	
max. Earth dist.	11393 Mar 08 10:48	28° \mathbb{H} 35'36	1.43339 AU	max. Earth dist.	11394 Feb 18 21:46	12° \mathbb{H} 05'05	1.41420 AU
	11393 Mar 09 07:37	0° \mathbb{Y}		evening rise	11394 Feb 23 19:08	20° \mathbb{H} 10'48	
evening rise	11393 Mar 15 09:16	9° \mathbb{Y} 38'38			11394 Mar 01 24:00	0° \mathbb{Y}	
	11393 Mar 28 21:26	0° \mathbb{B}			11394 Mar 23 04:52	0° \mathbb{B}	
evening max el	11393 Apr 15 23:01	23° \mathbb{B} 30'04	21°42'50	evening max el	11394 Mar 29 15:20	7° \mathbb{B} 17'58	23°02'01
asc. node	11393 Apr 23 02:00	28° \mathbb{B} 33'21		retrograde	11394 Apr 08 22:14	13° \mathbb{B} 22'21	
retrograde	11393 Apr 25 02:17	28° \mathbb{B} 52'49		asc. node	11394 Apr 09 23:16	13° \mathbb{B} 17'11	
evening set	11393 Apr 29 13:54	27° \mathbb{B} 03'20		evening set	11394 Apr 13 21:11	11° \mathbb{B} 18'13	
inferior conj	11393 May 04 20:38	20° \mathbb{B} 46'05	2°58'06	inferior conj	11394 Apr 19 05:54	4° \mathbb{B} 53'02	2°33'36
minimum elong	11393 May 04 19:02	20° \mathbb{B} 51'40	2°57'21	minimum elong	11394 Apr 19 03:49	5° \mathbb{B} 00'15	2°32'45
min. Earth dist.	11393 May 04 23:39	20° \mathbb{B} 35'31	0.68640 AU	min. Earth dist.	11394 Apr 18 20:25	5° \mathbb{B} 25'54	0.68706 AU
morning rise	11393 May 09 23:57	14° \mathbb{B} 32'13			11394 Apr 23 02:31	30° \mathbb{R} \mathbb{Y}	
direct	11393 May 14 23:22	12° \mathbb{B} 23'14		morning rise	11394 Apr 24 10:20	28° \mathbb{Y} 45'26	
morning max el	11393 May 24 20:08	18° \mathbb{B} 13'08	22°39'34	direct	11394 Apr 28 20:32	26° \mathbb{Y} 57'23	
desc. node	11393 May 26 16:25	20° \mathbb{B} 09'48			11394 May 05 09:05	0° \mathbb{B}	
	11393 Jun 03 15:51	0° \mathbb{I}		morning max el	11394 May 07 11:18	1° \mathbb{B} 55'35	21°14'53
	11393 Jun 23 23:22	0° \mathbb{E}		desc. node	11394 May 13 13:16	8° \mathbb{B} 56'16	
morning set	11393 Jun 27 19:14	6° \mathbb{E} 11'20			11394 May 28 12:13	0° \mathbb{I}	
max. Earth dist.	11393 Jul 02 12:13	14° \mathbb{E} 02'50	1.40445 AU	morning set	11394 Jun 07 14:33	15° \mathbb{I} 28'58	
				max. Earth dist.	11394 Jun 14 15:44	26° \mathbb{I} 47'16	1.42584 AU
superior conj	11393 Jul 10 07:51	27° \mathbb{E} 45'39	-1°22'33		11394 Jun 16 14:35	0° \mathbb{E}	
minimum elong	11393 Jul 10 13:34	28° \mathbb{E} 11'27	1°22'25	superior conj	11394 Jun 21 23:01	9° \mathbb{E} 00'27	-1°51'32
	11393 Jul 11 13:26	0° \mathbb{Q}		minimum elong	11394 Jun 22 05:38	9° \mathbb{E} 28'49	1°51'38
evening rise	11393 Jul 20 07:38	16° \mathbb{Q} 22'39		evening rise	11394 Jul 03 09:49	29° \mathbb{E} 14'06	
asc. node	11393 Jul 20 00:57	15° \mathbb{Q} 51'01			11394 Jul 03 20:00	0° \mathbb{Q}	
	11393 Jul 27 17:39	0° \mathbb{P}		asc. node	11394 Jul 06 21:49	5° \mathbb{Q} 31'40	
evening max el	11393 Aug 05 07:35	12° \mathbb{P} 05'02	18°24'39	evening max el	11394 Jul 19 18:39	24° \mathbb{Q} 58'41	18°05'59
retrograde	11393 Aug 12 21:36	15° \mathbb{P} 53'56		retrograde	11394 Jul 26 12:52	28° \mathbb{Q} 25'48	
evening set	11393 Aug 14 23:57	15° \mathbb{P} 37'14		evening set	11394 Jul 28 23:00	27° \mathbb{Q} 59'26	
inferior conj	11393 Aug 22 14:33	11° \mathbb{P} 02'59	0°00'12	inferior conj	11394 Aug 04 19:28	23° \mathbb{Q} 04'34	1°21'53
minimum elong	11393 Aug 22 14:33	11° \mathbb{P} 03'00	0°00'05	minimum elong	11394 Aug 04 21:45	22° \mathbb{Q} 59'13	1°20'38
transit middle	11393 Aug 22 14:33	11° \mathbb{P} 03'00	0°00'05	min. Earth dist.	11394 Aug 08 01:10	20° \mathbb{Q} 04'06	0.60408 AU
transit begin	11393 Aug 22 11:01	11° \mathbb{P} 10'07		desc. node	11394 Aug 09 12:08	18° \mathbb{Q} 49'49	
transit end	11393 Aug 22 18:05	10° \mathbb{P} 55'52		morning rise	11394 Aug 11 17:37	17° \mathbb{Q} 13'07	
desc. node	11393 Aug 22 14:49	11° \mathbb{P} 02'28		direct	11394 Aug 18 06:54	15° \mathbb{Q} 07'39	
min. Earth dist.	11393 Aug 25 22:22	8° \mathbb{P} 23'25	0.58169 AU	morning max el	11394 Sep 01 14:02	23° \mathbb{Q} 02'33	27°51'35
morning rise	11393 Aug 30 01:38	5° \mathbb{P} 40'23			11394 Sep 07 18:51	0° \mathbb{P}	
direct	11393 Sep 05 04:32	4° \mathbb{P} 02'53			11394 Sep 27 00:28	0° \mathbb{E}	
morning max el	11393 Sep 19 12:46	11° \mathbb{P} 42'17	27°10'12	asc. node	11394 Oct 02 22:43	11° \mathbb{E} 36'19	
	11393 Oct 03 19:43	0° \mathbb{A}		morning set	11394 Oct 04 04:06	14° \mathbb{E} 08'12	
asc. node	11393 Oct 16 01:58	21° \mathbb{A} 49'18		max. Earth dist.	11394 Oct 10 05:00	27° \mathbb{A} 09'17	1.31490 AU
morning set	11393 Oct 19 23:23	29° \mathbb{A} 51'24					
	11393 Oct 20 01:00	0° \mathbb{M}		superior conj	11394 Oct 11 08:56	29° \mathbb{A} 43'58	1°14'35
superior conj	11393 Oct 26 21:48	15° \mathbb{M} 03'34	1°28'25	minimum elong	11394 Oct 11 06:43	29° \mathbb{A} 31'42	1°14'33
minimum elong	11393 Oct 26 20:00	14° \mathbb{M} 53'36	1°28'41		11394 Oct 11 11:49	0° \mathbb{M}	
max. Earth dist.	11393 Oct 26 20:26	14° \mathbb{M} 56'00	1.31400 AU				

evening rise	11394 Oct 18 02:02	14°♄31'12		minimum elong	11395 Sep 25 15:30	14°♄01'47	0°55'10
	11394 Oct 25 17:23	0°♄		evening rise	11395 Oct 02 13:17	29°♄07'43	
desc. node	11394 Nov 05 09:18	17°♄32'20			11395 Oct 02 23:02	0°♄	
evening max el	11394 Nov 14 10:16	28°♄14'14	25°34'15		11395 Oct 19 14:56	0°♄	
	11394 Nov 16 09:38	0°♄		desc. node	11395 Oct 23 06:35	4°♄40'51	
retrograde	11394 Nov 28 07:18	5°♄13'39		evening max el	11395 Oct 26 21:55	8°♄34'49	23°59'47
evening set	11394 Dec 04 08:17	3°♄49'40		retrograde	11395 Nov 09 12:32	15°♄22'59	
min. Earth dist.	11394 Dec 08 22:34	1°♄11'59	0.57529 AU	evening set	11395 Nov 14 08:59	14°♄31'27	
	11394 Dec 10 16:47	30°♄		min. Earth dist.	11395 Nov 20 08:32	11°♄34'42	0.55829 AU
inferior conj	11394 Dec 11 21:07	29°♄10'54	-5°03'03	inferior conj	11395 Nov 22 11:57	10°♄16'55	-5°45'10
minimum elong	11394 Dec 12 04:57	28°♄57'25	5°00'41	minimum elong	11395 Nov 22 15:04	10°♄12'11	5°44'19
morning rise	11394 Dec 20 03:59	24°♄53'41		morning rise	11395 Nov 30 23:08	6°♄20'11	
direct	11394 Dec 22 09:43	24°♄38'21		direct	11395 Dec 03 15:01	6°♄02'07	
asc. node	11394 Dec 29 22:51	27°♄45'54		morning max el	11395 Dec 13 21:43	10°♄55'20	19°59'22
morning max el	11394 Dec 31 05:29	28°♄54'50	18°54'15	asc. node	11395 Dec 16 19:56	14°♄05'36	
	11395 Jan 01 06:57	0°♄			11395 Dec 26 20:16	0°♄	
morning set	11395 Jan 16 15:53	25°♄21'03		morning set	11395 Dec 31 20:58	9°♄56'36	
	11395 Jan 19 00:35	0°♄					
				superior conj	11396 Jan 08 14:37	25°♄40'16	1°16'20
superior conj	11395 Jan 25 03:39	11°♄53'58	0°54'28	minimum elong	11396 Jan 08 17:22	25°♄54'02	1°16'41
minimum elong	11395 Jan 25 06:36	12°♄07'57	0°54'37		11396 Jan 10 19:09	0°♄	
max. Earth dist.	11395 Feb 01 05:05	24°♄53'12	1.39238 AU	max. Earth dist.	11396 Jan 14 11:40	7°♄04'35	1.37038 AU
desc. node	11395 Feb 01 08:40	25°♄09'05		evening rise	11396 Jan 18 05:32	13°♄57'43	
	11395 Feb 04 03:17	0°♄		desc. node	11396 Jan 19 05:29	15°♄44'45	
evening rise	11395 Feb 05 02:13	1°♄38'14			11396 Jan 27 15:54	0°♄	
	11395 Feb 23 06:41	0°♄			11396 Feb 18 03:16	0°♄	
evening max el	11395 Mar 12 05:20	21°♄07'52	24°22'11	evening max el	11396 Feb 22 18:38	4°♄58'00	25°36'27
retrograde	11395 Mar 23 14:44	27°♄48'12		retrograde	11396 Mar 06 02:53	12°♄04'33	
asc. node	11395 Mar 27 20:36	26°♄26'11		evening set	11396 Mar 12 01:41	9°♄37'23	
evening set	11395 Mar 29 01:39	25°♄31'05		asc. node	11396 Mar 13 17:57	8°♄01'45	
min. Earth dist.	11395 Apr 02 16:20	20°♄14'20	0.68326 AU	min. Earth dist.	11396 Mar 16 09:18	4°♄55'43	0.67521 AU
inferior conj	11395 Apr 03 14:00	19°♄01'34	1°59'29	inferior conj	11396 Mar 17 19:01	3°♄08'04	1°15'45
minimum elong	11395 Apr 03 11:51	19°♄08'47	1°58'39	minimum elong	11396 Mar 17 17:19	3°♄13'28	1°15'10
morning rise	11395 Apr 08 22:10	13°♄01'29			11396 Mar 20 08:49	30°♄	
direct	11395 Apr 12 19:34	11°♄35'04		morning rise	11396 Mar 23 09:29	27°♄16'54	
morning max el	11395 Apr 20 09:40	15°♄50'05	20°01'29	direct	11396 Mar 26 19:03	26°♄10'42	
desc. node	11395 Apr 30 10:04	28°♄19'36		morning max el	11396 Apr 02 15:50	29°♄55'07	19°02'45
	11395 May 01 14:23	0°♄			11396 Apr 02 17:49	0°♄	
morning set	11395 May 17 15:58	24°♄02'21		greatest brilliancy	11396 Apr 15 22:24	17°♄38'13	-0.7m
	11395 May 21 12:22	0°♄		desc. node	11396 Apr 16 06:48	18°♄09'54	
max. Earth dist.	11395 May 28 02:32	10°♄22'35	1.44282 AU		11396 Apr 24 00:00	0°♄	
				morning set	11396 Apr 25 20:09	2°♄50'47	
superior conj	11395 Jun 02 14:15	19°♄13'10	-2°10'03	max. Earth dist.	11396 May 09 18:40	24°♄32'56	1.45355 AU
minimum elong	11395 Jun 02 18:02	19°♄28'35	2°10'35				
	11395 Jun 09 02:38	0°♄		superior conj	11396 May 12 07:27	28°♄31'54	-2°11'25
evening rise	11395 Jun 15 17:54	11°♄16'25		minimum elong	11396 May 12 04:09	28°♄18'55	2°11'55
asc. node	11395 Jun 23 18:47	24°♄54'44			11396 May 13 05:46	0°♄	
	11395 Jun 26 23:31	0°♄		evening rise	11396 May 27 03:19	22°♄19'56	
evening max el	11395 Jul 03 08:26	8°♄15'35	18°06'27		11396 May 31 20:00	0°♄	
retrograde	11395 Jul 09 17:52	11°♄35'56		asc. node	11396 Jun 09 15:49	13°♄53'33	
evening set	11395 Jul 12 11:57	10°♄57'10		evening max el	11396 Jun 15 21:44	21°♄47'29	18°25'16
inferior conj	11395 Jul 18 17:43	5°♄43'32	2°18'54	retrograde	11396 Jun 22 08:02	25°♄14'52	
minimum elong	11395 Jul 18 20:23	5°♄36'26	2°17'35	evening set	11396 Jun 25 10:09	24°♄21'48	
min. Earth dist.	11395 Jul 21 13:15	2°♄44'42	0.62657 AU	inferior conj	11396 Jul 01 05:10	18°♄51'29	2°54'21
	11395 Jul 24 13:00	30°♄		minimum elong	11396 Jul 01 07:09	18°♄45'36	2°53'20
morning rise	11395 Jul 25 02:51	29°♄33'31		min. Earth dist.	11396 Jul 03 10:51	16°♄13'23	0.64695 AU
desc. node	11395 Jul 27 09:25	28°♄09'43		morning rise	11396 Jul 07 02:59	12°♄32'07	
direct	11395 Jul 31 19:35	27°♄05'46		desc. node	11396 Jul 13 06:39	9°♄52'07	
	11395 Aug 08 19:42	0°♄		direct	11396 Jul 13 17:00	9°♄51'28	
morning max el	11395 Aug 14 21:16	5°♄08'09	27°54'14	morning max el	11396 Jul 27 07:38	17°♄50'22	27°21'14
	11395 Sep 02 14:42	0°♄			11396 Aug 06 12:05	0°♄	
morning set	11395 Sep 18 02:36	28°♄04'39			11396 Aug 25 12:27	0°♄	
	11395 Sep 19 01:13	0°♄		morning set	11396 Aug 31 16:12	11°♄33'25	
asc. node	11395 Sep 19 19:28	1°♄34'07		max. Earth dist.	11396 Sep 05 05:52	20°♄44'26	1.33195 AU
max. Earth dist.	11395 Sep 23 09:26	9°♄08'33	1.32083 AU	asc. node	11396 Sep 05 16:11	21°♄37'43	
superior conj	11395 Sep 25 17:39	14°♄13'31	0°55'26	superior conj	11396 Sep 08 21:50	28°♄25'54	0°31'14

minimum elong	11396 Sep 08 20:21	28° \mathbb{M} 18'01	0°30'51	minimum elong	11397 Aug 23 18:58	12° \mathbb{M} 14'38	0°02'13
	11396 Sep 09 15:28	0° \mathfrak{A}		behind sun begin	11397 Aug 23 13:05	11° \mathbb{M} 44'25	
evening rise	11396 Sep 16 00:21	13° \mathfrak{A} 40'35		behind sun end	11397 Aug 24 00:52	12° \mathbb{M} 44'55	
	11396 Sep 24 04:44	0° \mathbb{M}		asc. node	11397 Aug 23 12:55	11° \mathbb{M} 43'33	
evening max el	11396 Oct 07 09:13	18° \mathbb{M} 39'24	22°18'51	evening rise	11397 Aug 31 09:16	28° \mathbb{M} 04'50	
desc. node	11396 Oct 09 03:55	20° \mathbb{M} 17'04			11397 Sep 01 07:30	0° \mathfrak{A}	
retrograde	11396 Oct 20 06:00	25° \mathbb{M} 03'22		evening max el	11397 Sep 19 05:43	29° \mathfrak{A} 06'09	20°47'36
evening set	11396 Oct 23 15:00	24° \mathbb{M} 38'13			11397 Sep 20 04:21	0° \mathbb{M}	
min. Earth dist.	11396 Oct 31 15:42	21° \mathbb{M} 04'21	0.54784 AU	desc. node	11397 Sep 26 01:14	3° \mathbb{M} 52'06	
inferior conj	11396 Nov 01 09:48	20° \mathbb{M} 38'51	-5°38'37	retrograde	11397 Sep 30 17:08	4° \mathbb{M} 47'47	
minimum elong	11396 Nov 01 04:31	20° \mathbb{M} 46'18	5°37'33	evening set	11397 Oct 02 23:21	4° \mathbb{M} 35'30	
morning rise	11396 Nov 09 19:32	16° \mathbb{M} 51'42		inferior conj	11397 Oct 12 01:40	0° \mathbb{M} 40'26	-4°34'00
direct	11396 Nov 13 03:47	16° \mathbb{M} 26'38		minimum elong	11397 Oct 11 15:43	0° \mathbb{M} 54'38	4°31'04
morning max el	11396 Nov 25 00:03	22° \mathbb{M} 03'21	21°26'45	min. Earth dist.	11397 Oct 12 23:21	0° \mathbb{M} 09'27	0.54634 AU
	11396 Dec 01 16:27	0° \mathfrak{A}			11397 Oct 13 06:00	30° \mathbb{R} \mathfrak{A}	
asc. node	11396 Dec 02 16:56	1° \mathfrak{A} 29'34		morning rise	11397 Oct 20 08:03	26° \mathfrak{A} 44'02	
morning set	11396 Dec 15 06:16	24° \mathfrak{A} 40'51		direct	11397 Oct 24 11:57	26° \mathfrak{A} 06'49	
	11396 Dec 17 18:57	0° \mathfrak{B}			11397 Nov 03 17:19	0° \mathbb{M}	
superior conj	11396 Dec 22 11:51	9° \mathfrak{B} 53'58	1°30'39	morning max el	11397 Nov 06 14:52	2° \mathbb{M} 26'48	23°10'36
minimum elong	11396 Dec 22 13:44	10° \mathfrak{B} 03'45	1°31'13	asc. node	11397 Nov 19 13:51	19° \mathbb{M} 43'08	
max. Earth dist.	11396 Dec 26 22:20	18° \mathfrak{B} 57'05	1.35045 AU		11397 Nov 25 03:22	0° \mathfrak{A}	
evening rise	11396 Dec 31 01:47	27° \mathfrak{B} 00'19		morning set	11397 Nov 29 17:40	9° \mathfrak{A} 27'55	
	11397 Jan 01 16:10	0° \mathfrak{A}		superior conj	11397 Dec 06 16:08	24° \mathfrak{A} 25'36	1°38'00
desc. node	11397 Jan 05 02:21	6° \mathfrak{A} 11'51		minimum elong	11397 Dec 06 16:52	24° \mathfrak{A} 29'33	1°38'40
	11397 Jan 20 00:30	0° \mathfrak{H}			11397 Dec 09 06:56	0° \mathfrak{B}	
evening max el	11397 Feb 04 08:09	18° \mathfrak{H} 43'25	26°37'40	max. Earth dist.	11397 Dec 09 16:41	0° \mathfrak{B} 51'19	1.33428 AU
retrograde	11397 Feb 17 09:48	26° \mathfrak{H} 04'24		evening rise	11397 Dec 11 11:21	10° \mathfrak{B} 36'34	
evening set	11397 Feb 23 19:29	23° \mathfrak{H} 31'43		desc. node	11397 Dec 22 23:17	26° \mathfrak{B} 25'16	
min. Earth dist.	11397 Feb 27 21:13	19° \mathfrak{H} 24'13	0.66316 AU		11397 Dec 25 01:24	0° \mathfrak{A}	
asc. node	11397 Feb 28 15:16	18° \mathfrak{H} 30'53			11398 Jan 15 15:51	0° \mathfrak{H}	
inferior conj	11397 Mar 01 18:52	17° \mathfrak{H} 08'21	0°22'20	evening max el	11398 Jan 17 21:26	2° \mathfrak{H} 14'39	27°18'24
minimum elong	11397 Mar 01 18:16	17° \mathfrak{H} 10'08	0°22'18	retrograde	11398 Jan 31 10:26	9° \mathfrak{H} 38'56	
morning rise	11397 Mar 07 18:08	11° \mathfrak{H} 27'51		evening set	11398 Feb 07 04:53	7° \mathfrak{H} 06'46	
direct	11397 Mar 10 17:11	10° \mathfrak{H} 39'01		min. Earth dist.	11398 Feb 11 01:51	3° \mathfrak{H} 31'47	0.64751 AU
morning max el	11397 Mar 17 04:25	14° \mathfrak{H} 05'31	18°20'17	inferior conj	11398 Feb 13 11:06	0° \mathfrak{H} 56'09	-0°40'44
	11397 Mar 28 20:59	0° \mathfrak{Y}		minimum elong	11398 Feb 13 12:20	0° \mathfrak{H} 52'49	0°39'49
desc. node	11397 Apr 03 03:29	8° \mathfrak{Y} 20'01			11398 Feb 14 07:54	30° \mathbb{R} \mathfrak{A}	
morning set	11397 Apr 05 23:18	12° \mathfrak{Y} 50'18		asc. node	11398 Feb 15 12:34	28° \mathfrak{A} 45'57	
	11397 Apr 16 19:19	0° \mathfrak{B}		morning rise	11398 Feb 19 21:30	25° \mathfrak{A} 28'43	
				direct	11398 Feb 22 11:42	24° \mathfrak{A} 53'42	
superior conj	11397 Apr 21 14:13	7° \mathfrak{B} 30'13	-1°52'32	morning max el	11398 Feb 28 20:58	28° \mathfrak{A} 13'30	17°54'48
minimum elong	11397 Apr 21 05:14	6° \mathfrak{B} 55'03	1°52'13		11398 Mar 02 12:42	0° \mathfrak{H}	
max. Earth dist.	11397 Apr 22 13:44	9° \mathfrak{B} 02'07	1.45712 AU	morning set	11398 Mar 18 07:31	24° \mathfrak{H} 15'36	
	11397 May 05 23:41	0° \mathbb{I}		desc. node	11398 Mar 21 00:09	28° \mathfrak{H} 43'54	
evening rise	11397 May 07 12:46	2° \mathbb{I} 25'19			11398 Mar 21 18:33	0° \mathfrak{Y}	
greatest brilliancy	11397 May 17 21:49	18° \mathbb{I} 36'55	-0.8m	superior conj	11398 Apr 01 04:31	16° \mathfrak{Y} 55'02	-1°17'36
	11397 May 25 17:19	0° \mathfrak{B}		minimum elong	11398 Mar 31 20:20	16° \mathfrak{Y} 22'24	1°16'44
asc. node	11397 May 27 12:56	2° \mathfrak{B} 19'50		max. Earth dist.	11398 Apr 05 09:27	23° \mathfrak{Y} 34'41	1.45328 AU
evening max el	11397 May 30 07:57	5° \mathfrak{B} 28'00	19°01'35		11398 Apr 09 11:57	0° \mathfrak{B}	
retrograde	11397 Jun 06 03:39	9° \mathfrak{B} 15'03		evening rise	11398 Apr 17 04:26	11° \mathfrak{B} 52'41	
evening set	11397 Jun 09 14:13	8° \mathfrak{B} 06'28			11398 Apr 29 03:17	0° \mathbb{I}	
inferior conj	11397 Jun 15 02:05	2° \mathfrak{B} 21'03	3°12'15	greatest brilliancy	11398 May 01 20:12	3° \mathbb{I} 59'13	-0.6m
minimum elong	11397 Jun 15 02:59	2° \mathfrak{B} 18'10	3°11'29	evening max el	11398 May 13 13:14	19° \mathbb{I} 11'42	19°53'59
min. Earth dist.	11397 Jun 16 16:53	0° \mathfrak{B} 17'21	0.66377 AU	asc. node	11398 May 14 10:05	20° \mathbb{I} 02'17	
	11397 Jun 16 22:26	30° \mathbb{R} \mathbb{I}		retrograde	11398 May 21 01:52	23° \mathbb{I} 29'43	
morning rise	11397 Jun 20 15:08	25° \mathbb{I} 59'04		evening set	11398 May 24 21:33	22° \mathbb{I} 04'59	
direct	11397 Jun 26 21:42	23° \mathbb{I} 16'22		inferior conj	11398 May 30 05:24	16° \mathbb{I} 05'48	3°15'55
desc. node	11397 Jun 30 03:47	23° \mathbb{I} 53'31		minimum elong	11398 May 30 05:11	16° \mathbb{I} 06'32	3°15'15
	11397 Jul 08 19:32	0° \mathfrak{B}		min. Earth dist.	11398 May 31 05:37	14° \mathbb{I} 44'21	0.67626 AU
morning max el	11397 Jul 09 18:27	0° \mathfrak{B} 56'53	26°20'01	morning rise	11398 Jun 04 12:29	9° \mathbb{I} 45'22	
	11397 Jul 31 12:32	0° \mathfrak{Q}		direct	11398 Jun 10 08:15	7° \mathbb{I} 10'28	
morning set	11397 Aug 14 17:38	24° \mathfrak{Q} 26'23		desc. node	11398 Jun 17 00:51	9° \mathbb{I} 46'46	
	11397 Aug 17 15:48	0° \mathbb{M}		morning max el	11398 Jun 22 04:22	14° \mathbb{I} 16'31	24°59'58
max. Earth dist.	11397 Aug 18 15:50	1° \mathbb{M} 56'49	1.34812 AU		11398 Jul 04 23:50	0° \mathfrak{B}	
superior conj	11397 Aug 23 19:06	12° \mathbb{M} 15'17	0°02'31		11398 Jul 24 08:42	0° \mathfrak{Q}	

morning set	11398 Jul 28 02:40	6°Ω32'14		max. Earth dist.	11399 Jul 13 14:02	24°Ω29'23	1.39133 AU
max. Earth dist.	11398 Jul 31 16:40	13°Ω01'45	1.36851 AU		11399 Jul 16 16:40	0°Ω	
superior conj	11398 Aug 07 06:24	25°Ω33'38	-0°29'44	superior conj	11399 Jul 21 04:02	8°Ω11'47	-1°03'33
minimum elong	11398 Aug 07 08:20	25°Ω43'05	0°29'49	minimum elong	11399 Jul 21 08:26	8°Ω32'20	1°03'26
	11398 Aug 09 12:11	0°Π		asc. node	11399 Jul 28 06:27	21°Ω45'47	
asc. node	11398 Aug 10 09:40	1°Π47'31		evening rise	11399 Jul 30 10:59	26°Ω00'53	
evening rise	11398 Aug 15 13:45	12°Π14'04			11399 Aug 01 12:30	0°Π	
	11398 Aug 25 00:15	0°Ω		evening max el	11399 Aug 15 14:49	22°Π13'55	18°44'16
evening max el	11398 Sep 01 15:58	10°Ω16'57	19°35'13	retrograde	11399 Aug 23 21:22	26°Π22'32	
retrograde	11398 Sep 11 10:44	15°Ω09'00		evening set	11399 Aug 25 19:58	26°Π09'38	
desc. node	11398 Sep 12 22:35	15°Ω02'40		desc. node	11399 Aug 30 19:58	23°Π55'14	
evening set	11398 Sep 13 07:18	14°Ω59'15		inferior conj	11399 Sep 02 21:38	21°Π46'50	-0°57'33
inferior conj	11398 Sep 22 02:08	10°Ω54'47	-2°49'24	minimum elong	11399 Sep 02 19:16	21°Π51'12	0°56'46
minimum elong	11398 Sep 21 18:40	11°Ω06'34	2°46'35	min. Earth dist.	11399 Sep 06 00:47	19°Π29'21	0.57006 AU
min. Earth dist.	11398 Sep 24 09:37	9°Ω27'18	0.55425 AU	morning rise	11399 Sep 10 15:11	16°Π44'45	
morning rise	11398 Sep 30 03:58	6°Ω30'22		direct	11399 Sep 16 09:06	15°Π24'13	
direct	11398 Oct 05 03:46	5°Ω34'54		morning max el	11399 Sep 30 15:54	22°Π50'17	26°30'08
morning max el	11398 Oct 19 01:35	12°Ω31'41	24°57'41		11399 Oct 07 01:34	0°Ω	
	11398 Nov 01 12:36	0°Π		asc. node	11399 Oct 24 07:30	27°Ω53'17	
asc. node	11398 Nov 06 10:42	8°Π34'31			11399 Oct 25 09:07	0°Π	
morning set	11398 Nov 14 05:26	24°Π13'19		morning set	11399 Oct 29 15:50	8°Π51'28	
	11398 Nov 16 21:23	0°♄					
superior conj	11398 Nov 21 00:57	9°♄08'07	1°38'55	superior conj	11399 Nov 05 12:08	23°Π54'13	1°33'53
minimum elong	11398 Nov 21 00:33	9°♄05'52	1°39'33	minimum elong	11399 Nov 05 10:46	23°Π46'36	1°34'19
max. Earth dist.	11398 Nov 22 18:53	12°♄57'37	1.32260 AU	max. Earth dist.	11399 Nov 06 02:17	25°Π12'51	1.31571 AU
evening rise	11398 Nov 28 06:56	24°♄38'23			11399 Nov 08 06:10	0°♄	
	11398 Nov 30 22:48	0°♄		evening rise	11399 Nov 12 09:43	8°♄57'24	
desc. node	11398 Dec 09 20:16	16°♄18'56			11399 Nov 23 07:22	0°♄	
	11398 Dec 18 14:54	0°♄		desc. node	11399 Nov 26 17:21	5°♄43'52	
evening max el	11398 Dec 31 08:47	15°♄19'32	27°31'44	evening max el	11399 Dec 13 15:24	27°♄43'31	27°12'25
retrograde	11399 Jan 14 03:51	22°♄39'41			11399 Dec 16 05:31	0°♄	
evening set	11399 Jan 21 03:19	20°♄15'23		retrograde	11399 Dec 27 13:09	4°♄56'39	
min. Earth dist.	11399 Jan 24 21:12	17°♄09'24	0.62886 AU	evening set	11400 Jan 03 11:26	2°♄48'49	
inferior conj	11399 Jan 27 16:55	14°♄24'36	-1°52'23	min. Earth dist.	11400 Jan 07 05:53	0°♄04'33	0.60808 AU
minimum elong	11399 Jan 27 20:39	14°♄15'31	1°50'19		11400 Jan 07 08:05	30°♄♄	
asc. node	11399 Feb 02 09:49	9°♄47'17		inferior conj	11400 Jan 10 08:54	27°♄23'55	-3°09'38
morning rise	11399 Feb 03 16:18	9°♄13'21		minimum elong	11400 Jan 10 15:23	27°♄09'59	3°06'38
direct	11399 Feb 05 23:42	8°♄48'23		morning rise	11400 Jan 17 22:06	22°♄32'11	
morning max el	11399 Feb 12 14:35	12°♄11'38	17°46'46	direct	11400 Jan 20 01:17	22°♄13'46	
	11399 Feb 24 17:47	0°♄		asc. node	11400 Jan 20 07:02	22°♄14'00	
morning set	11399 Feb 28 16:43	6°♄52'54		morning max el	11400 Jan 27 05:55	25°♄50'06	17°57'06
desc. node	11399 Mar 07 20:49	19°♄17'21			11400 Jan 30 18:47	0°♄	
				morning set	11400 Feb 11 20:22	20°♄21'16	
superior conj	11399 Mar 12 16:05	27°♄22'05	-0°35'56		11400 Feb 17 03:11	0°♄	
minimum elong	11399 Mar 12 12:26	27°♄06'56	0°35'18	superior conj	11400 Feb 22 04:24	8°♄58'48	0°04'14
	11399 Mar 14 06:19	0°♄		minimum elong	11400 Feb 22 04:46	9°♄00'28	0°04'29
max. Earth dist.	11399 Mar 19 03:32	7°♄55'36	1.44243 AU	behind sun begin	11400 Feb 21 20:57	8°♄26'14	
evening rise	11399 Mar 27 16:26	21°♄19'56		behind sun end	11400 Feb 22 12:36	9°♄34'37	
	11399 Apr 02 08:58	0°♄		desc. node	11400 Feb 22 17:29	9°♄55'51	
	11399 Apr 23 20:04	0°♄		max. Earth dist.	11400 Mar 01 17:16	21°♄46'44	1.42569 AU
evening max el	11399 Apr 26 12:49	2°♄56'35	20°59'59		11400 Mar 06 18:57	0°♄	
asc. node	11399 May 01 07:16	6°♄47'49		evening rise	11400 Mar 07 15:22	1°♄21'03	
retrograde	11399 May 05 00:34	7°♄54'07			11400 Mar 26 20:45	0°♄	
evening set	11399 May 09 06:12	6°♄13'19		evening max el	11400 Apr 09 07:10	16°♄42'11	22°15'54
inferior conj	11399 May 14 12:40	0°♄01'58	3°07'40	asc. node	11400 Apr 18 04:32	22°♄20'39	
minimum elong	11399 May 14 11:30	0°♄06'01	3°06'58	retrograde	11400 Apr 18 22:03	22°♄23'12	
	11399 May 14 13:14	30°♄♄		evening set	11400 Apr 23 14:27	20°♄27'04	
min. Earth dist.	11399 May 14 23:06	29°♄25'47	0.68410 AU	inferior conj	11400 Apr 28 21:47	14°♄05'53	2°48'55
morning rise	11399 May 19 16:36	23°♄45'24		minimum elong	11400 Apr 28 19:56	14°♄12'20	2°48'07
direct	11399 May 24 23:40	21°♄25'44		min. Earth dist.	11400 Apr 28 19:19	14°♄14'26	0.68723 AU
desc. node	11399 Jun 03 21:51	27°♄04'17		morning rise	11400 May 04 01:16	7°♄54'39	
morning max el	11399 Jun 04 14:15	27°♄44'57	23°31'01	direct	11400 May 08 18:56	5°♄54'36	
	11399 Jun 06 17:13	0°♄		morning max el	11400 May 18 02:42	11°♄22'02	22°02'34
	11399 Jun 28 15:35	0°♄		desc. node	11400 May 21 18:46	15°♄23'20	
morning set	11399 Jul 09 14:23	17°♄38'44			11400 Jun 01 20:02	0°♄	

morning set	11400 Jun 20 00:39	27° Π 36'39		desc. node	11401 May 08 15:35	4° \mathcal{B} 26'48	
	11400 Jun 21 12:08	0° \mathcal{E}			11401 May 26 05:15	0° Π	
max. Earth dist.	11400 Jun 25 14:02	6° \mathcal{E} 42'58	1.41393 AU	morning set	11401 May 30 10:34	6° Π 30'18	
				max. Earth dist.	11401 Jun 07 20:11	19° Π 48'24	1.43365 AU
					11401 Jun 14 01:12	0° \mathcal{E}	
superior conj	11400 Jul 03 07:38	19° \mathcal{E} 59'59	-1°35'42				
minimum elong	11400 Jul 03 14:02	20° \mathcal{E} 28'16	1°35'36				
	11400 Jul 08 20:58	0° \mathcal{Q}		superior conj	11401 Jun 14 12:51	0° \mathcal{E} 48'40	-2°01'04
evening rise	11400 Jul 13 21:27	9° \mathcal{Q} 16'20		minimum elong	11401 Jun 14 18:51	1° \mathcal{E} 13'51	2°01'23
asc. node	11400 Jul 15 03:17	11° \mathcal{Q} 34'33		evening rise	11401 Jun 26 16:36	21° \mathcal{E} 48'28	
	11400 Jul 25 22:45	0° \mathcal{M}			11401 Jul 01 08:24	0° \mathcal{Q}	
evening max el	11400 Jul 29 22:37	4° \mathcal{M} 50'11	18°14'14	asc. node	11401 Jul 02 00:13	1° \mathcal{Q} 08'38	
retrograde	11400 Aug 06 03:02	8° \mathcal{M} 28'22		evening max el	11401 Jul 13 11:19	17° \mathcal{Q} 55'15	18°03'54
evening set	11400 Aug 08 08:26	8° \mathcal{M} 08'05		retrograde	11401 Jul 20 00:38	21° \mathcal{Q} 17'42	
inferior conj	11400 Aug 15 15:01	3° \mathcal{M} 24'51	0°37'55	evening set	11401 Jul 22 14:04	20° \mathcal{Q} 46'28	
minimum elong	11400 Aug 15 16:16	3° \mathcal{M} 22'10	0°37'05	inferior conj	11401 Jul 29 03:51	15° \mathcal{Q} 43'42	1°48'54
desc. node	11400 Aug 17 17:20	1° \mathcal{M} 36'02		minimum elong	11401 Jul 29 06:29	15° \mathcal{Q} 37'11	1°47'33
min. Earth dist.	11400 Aug 18 23:11	0° \mathcal{M} 33'29	0.59098 AU	min. Earth dist.	11401 Aug 01 06:05	12° \mathcal{Q} 40'56	0.61380 AU
	11400 Aug 19 15:54	30° \mathcal{R} \mathcal{Q}		morning rise	11401 Aug 04 20:20	9° \mathcal{Q} 42'59	
morning rise	11400 Aug 22 20:42	27° \mathcal{Q} 48'22		desc. node	11401 Aug 04 14:40	9° \mathcal{Q} 52'46	
direct	11400 Aug 29 04:37	25° \mathcal{Q} 58'41		direct	11401 Aug 11 12:00	7° \mathcal{Q} 26'39	
	11400 Sep 08 05:07	0° \mathcal{M}		morning max el	11401 Aug 25 17:27	15° \mathcal{Q} 26'37	27°57'13
morning max el	11400 Sep 12 13:22	3° \mathcal{M} 46'17	27°32'33		11401 Sep 06 14:28	0° \mathcal{M}	
	11400 Oct 01 18:47	0° \mathcal{E}			11401 Sep 24 08:36	0° \mathcal{E}	
asc. node	11400 Oct 11 04:16	17° \mathcal{E} 32'01		morning set	11401 Sep 28 01:32	7° \mathcal{E} 26'48	
morning set	11400 Oct 13 23:11	23° \mathcal{E} 17'55		asc. node	11401 Sep 28 01:01	7° \mathcal{E} 24'08	
	11400 Oct 17 02:02	0° \mathcal{M}		max. Earth dist.	11401 Oct 03 18:29	19° \mathcal{E} 36'48	1.31678 AU
superior conj	11400 Oct 20 23:51	8° \mathcal{M} 38'36	1°23'12	superior conj	11401 Oct 05 10:13	23° \mathcal{E} 15'11	1°07'05
minimum elong	11400 Oct 20 21:50	8° \mathcal{M} 27'22	1°23'22	minimum elong	11401 Oct 05 07:58	23° \mathcal{E} 02'47	1°06'58
max. Earth dist.	11400 Oct 20 11:25	7° \mathcal{M} 29'22	1.31374 AU		11401 Oct 08 11:25	0° \mathcal{M}	
evening rise	11400 Oct 27 17:23	23° \mathcal{M} 27'48		evening rise	11401 Oct 12 03:52	8° \mathcal{M} 03'30	
	11400 Oct 30 20:12	0° \mathcal{X}			11401 Oct 23 09:15	0° \mathcal{X}	
desc. node	11400 Nov 13 14:31	24° \mathcal{X} 28'58		desc. node	11401 Oct 31 11:46	12° \mathcal{X} 18'32	
	11400 Nov 17 12:04	0° \mathcal{B}		evening max el	11401 Nov 07 06:13	20° \mathcal{X} 01'27	24°56'00
evening max el	11400 Nov 25 14:49	9° \mathcal{B} 17'29	26°18'53	retrograde	11401 Nov 21 01:58	26° \mathcal{X} 57'13	
retrograde	11400 Dec 09 13:13	16° \mathcal{B} 22'53		evening set	11401 Nov 26 15:51	25° \mathcal{X} 47'25	
evening set	11400 Dec 16 01:07	14° \mathcal{B} 40'46		min. Earth dist.	11401 Dec 01 18:03	23° \mathcal{X} 03'40	0.56740 AU
min. Earth dist.	11400 Dec 20 04:11	12° \mathcal{B} 05'25	0.58680 AU	inferior conj	11401 Dec 04 10:08	21° \mathcal{X} 19'38	-5°25'36
inferior conj	11400 Dec 23 07:33	9° \mathcal{B} 44'57	-4°25'20	minimum elong	11401 Dec 04 16:38	21° \mathcal{X} 09'02	5°23'54
minimum elong	11400 Dec 23 15:46	9° \mathcal{B} 29'35	4°22'20	morning rise	11401 Dec 12 19:39	17° \mathcal{X} 11'36	
morning rise	11400 Dec 31 09:11	5° \mathcal{B} 15'09		direct	11401 Dec 15 04:35	16° \mathcal{X} 55'42	
direct	11401 Jan 02 12:08	4° \mathcal{B} 59'49		morning max el	11401 Dec 24 14:49	21° \mathcal{X} 27'24	19°19'08
asc. node	11401 Jan 07 04:13	6° \mathcal{B} 18'32		asc. node	11401 Dec 25 01:19	21° \mathcal{X} 53'14	
morning max el	11401 Jan 10 15:19	8° \mathcal{B} 59'05	18°27'14		11401 Dec 31 07:49	0° \mathcal{B}	
	11401 Jan 24 05:31	0° \approx		morning set	11402 Jan 10 14:30	18° \mathcal{B} 51'17	
morning set	11401 Jan 26 13:00	4° \approx 24'38			11402 Jan 16 04:24	0° \approx	
superior conj	11401 Feb 04 14:32	21° \approx 36'12	0°38'18	superior conj	11402 Jan 18 17:45	5° \approx 01'04	1°04'42
minimum elong	11401 Feb 04 17:02	21° \approx 47'46	0°38'24	minimum elong	11402 Jan 18 20:44	5° \approx 15'34	1°04'55
	11401 Feb 09 06:01	0° \mathcal{X}		max. Earth dist.	11402 Jan 25 08:03	17° \approx 26'01	1.38284 AU
desc. node	11401 Feb 09 14:10	0° \mathcal{X} 36'01		desc. node	11402 Jan 27 10:56	21° \approx 14'35	
max. Earth dist.	11401 Feb 12 01:55	4° \mathcal{X} 56'24	1.40503 AU	evening rise	11402 Jan 29 02:02	24° \approx 06'37	
evening rise	11401 Feb 16 09:59	12° \mathcal{X} 15'42			11402 Feb 01 12:38	0° \mathcal{X}	
	11401 Feb 27 15:56	0° \mathcal{Y}			11402 Feb 21 09:34	0° \mathcal{Y}	
	11401 Mar 22 10:10	0° \mathcal{B}		evening max el	11402 Mar 05 11:41	14° \mathcal{Y} 20'59	24°55'04
evening max el	11401 Mar 22 22:04	0° \mathcal{B} 30'00	23°36'27	retrograde	11402 Mar 17 07:39	21° \mathcal{Y} 14'06	
retrograde	11401 Apr 02 16:50	6° \mathcal{B} 51'30		evening set	11402 Mar 22 23:31	18° \mathcal{Y} 52'33	
asc. node	11401 Apr 05 01:52	6° \mathcal{B} 25'01		asc. node	11402 Mar 22 23:12	18° \mathcal{Y} 53'14	
evening set	11401 Apr 07 20:45	4° \mathcal{B} 41'34		min. Earth dist.	11402 Mar 27 11:07	13° \mathcal{Y} 50'31	0.68027 AU
	11401 Apr 11 23:39	30° \mathcal{R} \mathcal{Y}		inferior conj	11402 Mar 28 13:50	12° \mathcal{Y} 22'26	1°42'09
min. Earth dist.	11401 Apr 12 16:04	29° \mathcal{Y} 04'15	0.68588 AU	minimum elong	11402 Mar 28 11:48	12° \mathcal{Y} 29'07	1°41'24
inferior conj	11401 Apr 13 06:47	28° \mathcal{Y} 13'46	2°20'20	morning rise	11402 Apr 03 00:20	6° \mathcal{Y} 25'40	
minimum elong	11401 Apr 13 04:37	28° \mathcal{Y} 21'11	2°19'28	direct	11402 Apr 06 16:34	5° \mathcal{Y} 08'00	
morning rise	11401 Apr 18 12:29	22° \mathcal{Y} 09'04		morning max el	11402 Apr 13 22:22	9° \mathcal{Y} 08'41	19°34'34
direct	11401 Apr 22 17:02	20° \mathcal{Y} 30'25		desc. node	11402 Apr 25 12:20	24° \mathcal{Y} 02'51	
morning max el	11401 Apr 30 20:44	25° \mathcal{Y} 09'27	20°42'02	greatest brilliancy	11402 Apr 26 14:53	25° \mathcal{Y} 39'54	-0.7m
	11401 May 05 04:27	0° \mathcal{B}			11402 Apr 29 13:01	0° \mathcal{B}	

morning set	11402 May 09 10:10	15°♄01'34		morning max el	11403 Mar 28 07:24	23°♄16'15	18°42'40
	11402 May 19 01:28	0°♄			11403 Apr 02 22:05	0°♄	
max. Earth dist.	11402 May 21 09:17	3°♄39'55	1.44822 AU	desc. node	11403 Apr 12 09:01	14°♄02'11	
				morning set	11403 Apr 18 22:21	24°♄15'31	
superior conj	11402 May 25 18:04	10°♄36'54	-2°13'02		11403 Apr 22 14:28	0°♄	
minimum elong	11402 May 25 19:11	10°♄41'23	2°13'41	max. Earth dist.	11403 May 04 03:20	18°♄01'30	1.45603 AU
	11402 Jun 06 14:09	0°♄					
evening rise	11402 Jun 08 15:30	3°♄26'32		superior conj	11403 May 05 04:44	19°♄40'54	-2°05'50
asc. node	11402 Jun 18 21:14	20°♄22'32		minimum elong	11403 May 04 22:23	19°♄16'02	2°06'01
	11402 Jun 25 19:10	0°♄			11403 May 11 18:14	0°♄	
evening max el	11402 Jun 27 01:22	1°♄20'08	18°12'15	evening rise	11403 May 20 14:25	14°♄03'58	
retrograde	11402 Jul 03 09:54	4°♄41'26		greatest brilliancy	11403 May 27 15:18	25°♄19'44	-0.9m
evening set	11402 Jul 06 07:28	3°♄56'42			11403 May 30 14:23	0°♄	
	11402 Jul 11 01:32	30°♄		asc. node	11403 Jun 05 18:17	9°♄08'38	
inferior conj	11402 Jul 12 08:12	28°♄35'56	2°36'16	evening max el	11403 Jun 10 13:38	14°♄56'28	18°38'38
minimum elong	11402 Jul 12 10:40	28°♄29'04	2°35'03	retrograde	11403 Jun 17 02:46	18°♄30'28	
min. Earth dist.	11402 Jul 14 22:10	25°♄43'55	0.63570 AU	evening set	11403 Jun 20 08:32	17°♄30'42	
morning rise	11402 Jul 18 12:18	22°♄21'14		inferior conj	11403 Jun 26 00:03	11°♄53'40	3°03'50
desc. node	11402 Jul 22 11:56	20°♄11'05		minimum elong	11403 Jun 26 01:36	11°♄48'54	3°02'56
direct	11402 Jul 25 04:45	19°♄46'32		min. Earth dist.	11403 Jun 27 23:21	9°♄29'13	0.65462 AU
morning max el	11402 Aug 08 02:07	27°♄48'27	27°44'01	morning rise	11403 Jul 01 17:50	5°♄32'46	
	11402 Aug 10 04:14	0°♄		direct	11403 Jul 08 05:11	2°♄50'14	
	11402 Aug 31 08:48	0°♄		desc. node	11403 Jul 09 09:06	2°♄54'57	
morning set	11402 Sep 11 20:35	21°♄12'16		morning max el	11403 Jul 21 12:52	10°♄42'20	26°58'11
asc. node	11402 Sep 14 21:44	27°♄24'55			11403 Aug 05 19:15	0°♄	
	11402 Sep 16 03:26	0°♄			11403 Aug 23 20:57	0°♄	
max. Earth dist.	11402 Sep 16 19:47	1°♄26'11	1.32499 AU	morning set	11403 Aug 26 05:29	4°♄27'24	
				max. Earth dist.	11403 Aug 30 12:12	12°♄53'14	1.33829 AU
superior conj	11402 Sep 19 17:18	7°♄38'29	0°45'46	asc. node	11403 Sep 01 18:28	17°♄30'21	
minimum elong	11402 Sep 19 15:21	7°♄27'58	0°45'26				
evening rise	11402 Sep 26 15:16	22°♄39'20		superior conj	11403 Sep 03 18:54	21°♄42'34	0°19'35
	11402 Sep 30 03:24	0°♄		minimum elong	11403 Sep 03 17:54	21°♄37'21	0°19'12
desc. node	11402 Oct 18 09:04	28°♄51'19			11403 Sep 07 16:44	0°♄	
evening max el	11402 Oct 19 16:47	0°♄11'29	23°16'32	evening rise	11403 Sep 11 01:44	7°♄10'10	
	11402 Oct 19 12:04	0°♄			11403 Sep 23 04:33	0°♄	
retrograde	11402 Nov 02 01:26	6°♄50'37		evening max el	11403 Oct 01 07:01	10°♄22'02	21°38'02
evening set	11402 Nov 06 06:52	6°♄11'50		desc. node	11403 Oct 05 06:25	13°♄40'32	
min. Earth dist.	11402 Nov 13 02:26	3°♄01'20	0.55290 AU	retrograde	11403 Oct 13 14:51	16°♄29'49	
inferior conj	11402 Nov 14 16:53	2°♄05'27	-5°49'25	evening set	11403 Oct 16 10:52	16°♄11'34	
minimum elong	11402 Nov 14 16:32	2°♄05'58	5°48'49	inferior conj	11403 Oct 25 10:32	12°♄15'31	-5°17'50
	11402 Nov 18 11:43	30°♄		minimum elong	11403 Oct 25 02:23	12°♄26'56	5°15'58
morning rise	11402 Nov 23 03:54	28°♄14'20		min. Earth dist.	11403 Oct 25 09:07	12°♄17'30	0.54608 AU
direct	11402 Nov 26 02:19	27°♄53'40		morning rise	11403 Nov 02 18:58	8°♄27'28	
	11402 Dec 03 02:00	0°♄		direct	11403 Nov 06 11:35	7°♄57'53	
morning max el	11402 Dec 07 01:02	3°♄05'07	20°34'00	morning max el	11403 Nov 18 21:50	13°♄52'39	22°09'32
asc. node	11402 Dec 11 22:21	8°♄42'10		asc. node	11403 Nov 28 19:18	26°♄29'21	
	11402 Dec 24 04:16	0°♄			11403 Nov 30 22:06	0°♄	
morning set	11402 Dec 25 21:40	3°♄31'31		morning set	11403 Dec 10 08:08	18°♄18'29	
					11403 Dec 15 19:50	0°♄	
superior conj	11403 Jan 02 09:29	19°♄00'02	1°23'18				
minimum elong	11403 Jan 02 11:56	19°♄12'27	1°23'45	superior conj	11403 Dec 17 10:06	3°♄23'00	1°34'35
max. Earth dist.	11403 Jan 07 16:03	29°♄27'56	1.36154 AU	minimum elong	11403 Dec 17 11:31	3°♄30'26	1°35'12
	11403 Jan 07 22:43	0°♄		max. Earth dist.	11403 Dec 21 06:07	11°♄21'10	1.34309 AU
evening rise	11403 Jan 11 13:00	6°♄45'44		evening rise	11403 Dec 25 15:23	20°♄04'06	
desc. node	11403 Jan 14 07:44	11°♄47'10			11403 Dec 30 23:27	0°♄	
	11403 Jan 25 07:43	0°♄		desc. node	11404 Jan 01 04:38	2°♄09'30	
evening max el	11403 Feb 16 01:14	28°♄10'39	26°04'39		11404 Jan 19 07:38	0°♄	
	11403 Feb 18 00:19	0°♄		evening max el	11404 Jan 29 14:46	11°♄51'20	26°57'49
retrograde	11403 Feb 28 17:28	5°♄24'01		retrograde	11404 Feb 11 21:34	19°♄14'19	
evening set	11403 Mar 06 21:04	2°♄54'08		evening set	11404 Feb 18 11:32	16°♄40'51	
asc. node	11403 Mar 09 20:32	29°♄55'19		min. Earth dist.	11404 Feb 22 11:03	12°♄47'46	0.65700 AU
	11403 Mar 09 18:54	30°♄		inferior conj	11404 Feb 24 13:47	10°♄22'20	-0°03'18
min. Earth dist.	11403 Mar 11 02:10	28°♄27'05	0.67056 AU	minimum elong	11404 Feb 24 13:52	10°♄22'06	0°02'57
inferior conj	11403 Mar 12 16:53	26°♄26'50	0°54'17	transit middle	11404 Feb 24 13:52	10°♄22'06	0°02'57
minimum elong	11403 Mar 12 15:35	26°♄30'55	0°53'54	transit begin	11404 Feb 24 10:56	10°♄30'31	
morning rise	11403 Mar 18 10:47	20°♄39'50		transit end	11404 Feb 24 16:47	10°♄13'42	
direct	11403 Mar 21 15:49	19°♄41'14		asc. node	11404 Feb 24 17:49	10°♄10'43	

morning rise	11404 Mar 01 17:32	4° H 47'15		min. Earth dist.	11405 Feb 04 11:51	26° \approx 44'01	0.63991 AU
direct	11404 Mar 04 12:41	4° H 04'42		inferior conj	11405 Feb 07 01:56	24° \approx 02'43	-1°10'13
morning max el	11404 Mar 10 22:01	7° H 26'38	18°07'22	minimum elong	11405 Feb 07 04:09	23° \approx 56'56	1°08'49
	11404 Mar 26 13:54	0° Y		asc. node	11405 Feb 10 15:05	20° \approx 38'46	
desc. node	11404 Mar 29 05:40	4° Y 18'36		morning rise	11405 Feb 13 17:43	18° \approx 42'07	
morning set	11404 Mar 29 13:50	4° Y 51'44		direct	11405 Feb 16 04:41	18° \approx 11'56	
				morning max el	11405 Feb 22 15:28	21° \approx 32'00	17°49'14
superior conj	11404 Apr 13 12:21	28° Y 43'56	-1°39'09		11405 Mar 01 04:44	0° H	
minimum elong	11404 Apr 13 02:55	28° Y 06'54	1°38'30	morning set	11405 Mar 11 09:25	16° H 49'56	
	11404 Apr 14 07:43	0° B		desc. node	11405 Mar 16 02:20	24° H 47'11	
max. Earth dist.	11404 Apr 15 23:20	2° B 35'14	1.45639 AU		11405 Mar 19 05:20	0° Y	
evening rise	11404 Apr 29 14:58	23° B 49'15					
	11404 May 03 14:46	0° II		superior conj	11405 Mar 24 10:42	8° Y 33'15	-1°00'10
greatest brilliancy	11404 May 12 00:30	12° II 50'54	-0.7m	minimum elong	11405 Mar 24 04:17	8° Y 07'18	0°59'21
asc. node	11404 May 22 15:24	27° II 17'31		max. Earth dist.	11405 Mar 29 18:18	17° Y 03'42	1.44939 AU
evening max el	11404 May 23 21:48	28° II 38'07	19°22'01		11405 Apr 07 01:14	0° B	
	11404 May 25 08:53	0° E		evening rise	11405 Apr 09 03:04	3° B 11'27	
retrograde	11404 May 30 23:52	2° E 37'21			11405 Apr 27 03:49	0° II	
evening set	11404 Jun 03 14:14	1° E 21'49		evening max el	11405 May 07 00:34	12° II 22'16	20°20'37
	11404 Jun 05 05:09	30° R II		asc. node	11405 May 09 12:34	14° II 37'46	
inferior conj	11404 Jun 09 00:00	25° II 30'07	3°15'24	retrograde	11405 May 14 22:38	16° II 56'52	
minimum elong	11404 Jun 09 00:25	25° II 28'44	3°14'42	evening set	11405 May 18 22:20	15° II 25'24	
min. Earth dist.	11404 Jun 10 08:25	23° II 43'58	0.66956 AU	inferior conj	11405 May 24 05:18	9° II 20'41	3°13'49
morning rise	11404 Jun 14 10:09	19° II 08'18		minimum elong	11405 May 24 04:39	9° II 22'54	3°13'08
direct	11404 Jun 20 12:17	16° II 28'10		min. Earth dist.	11405 May 24 23:33	8° II 18'13	0.68007 AU
desc. node	11404 Jun 25 06:12	17° II 47'08		morning rise	11405 May 29 10:40	3° II 01'24	
morning max el	11404 Jul 02 23:35	23° II 56'06	25°47'49	direct	11405 Jun 04 01:06	0° II 32'13	
	11404 Jul 08 09:36	0° E		desc. node	11405 Jun 12 03:13	4° II 19'27	
	11404 Jul 29 04:38	0° O		morning max el	11405 Jun 15 09:22	7° II 20'27	24°22'41
morning set	11404 Aug 08 00:31	17° O 01'55			11405 Jul 03 01:31	0° E	
max. Earth dist.	11404 Aug 11 18:13	24° O 01'09	1.35632 AU	morning set	11405 Jul 21 01:08	28° E 44'35	
	11404 Aug 14 20:12	0° P			11405 Jul 21 18:25	0° O	
				max. Earth dist.	11405 Jul 24 16:24	5° O 10'41	1.37798 AU
superior conj	11404 Aug 17 12:17	5° P 19'37	-0°10'49				
minimum elong	11404 Aug 17 12:57	5° P 22'59	0°11'03	superior conj	11405 Jul 31 18:15	18° O 22'02	-0°44'02
behind sun begin	11404 Aug 17 08:26	5° P 00'10		minimum elong	11405 Jul 31 21:13	18° O 36'15	0°44'01
behind sun end	11404 Aug 17 17:29	5° P 45'50		asc. node	11405 Aug 05 11:58	27° O 38'05	
asc. node	11404 Aug 18 15:11	7° P 35'52			11405 Aug 06 16:32	0° P	
evening rise	11404 Aug 25 09:04	21° P 29'06		evening rise	11405 Aug 09 10:50	5° P 29'49	
	11404 Aug 29 14:38	0° A			11405 Aug 23 16:40	0° A	
evening max el	11404 Sep 12 09:04	21° A 05'54	20°14'13	evening max el	11405 Aug 26 01:04	2° A 37'13	19°11'00
desc. node	11404 Sep 21 03:47	26° A 16'29		retrograde	11405 Sep 04 03:37	7° A 09'27	
retrograde	11404 Sep 23 03:39	26° A 27'09		evening set	11405 Sep 05 23:56	6° A 59'03	
evening set	11404 Sep 25 03:37	26° A 16'55		desc. node	11405 Sep 08 01:08	6° A 24'45	
inferior conj	11404 Oct 04 04:24	22° A 19'00	-3°52'40	inferior conj	11405 Sep 14 12:11	2° A 47'47	-2°01'08
minimum elong	11404 Oct 03 18:49	22° A 33'12	3°49'26	minimum elong	11405 Sep 14 06:53	2° A 56'42	1°59'06
min. Earth dist.	11404 Oct 05 17:37	21° A 23'56	0.54857 AU	min. Earth dist.	11405 Sep 17 06:06	0° A 57'23	0.56014 AU
morning rise	11404 Oct 12 09:09	18° A 12'34			11405 Sep 18 18:35	30° R II	
direct	11404 Oct 16 21:16	17° A 28'42		morning rise	11405 Sep 22 10:58	28° P 07'21	
morning max el	11404 Oct 30 10:05	24° A 05'21	23°56'45	direct	11405 Sep 27 18:47	27° P 01'46	
	11404 Nov 04 19:08	0° M			11405 Oct 06 15:57	0° A	
asc. node	11404 Nov 14 16:10	15° M 00'20		morning max el	11405 Oct 11 21:39	4° A 12'48	25°39'41
	11404 Nov 22 08:48	0° J			11405 Oct 30 08:24	0° M	
morning set	11404 Nov 23 19:54	3° J 05'43		asc. node	11405 Nov 01 13:00	4° M 04'22	
				morning set	11405 Nov 08 07:17	17° M 48'35	
superior conj	11404 Nov 30 16:38	18° J 00'28	1°39'08		11405 Nov 13 20:50	0° J	
minimum elong	11404 Nov 30 16:52	18° J 01'46	1°39'48				
max. Earth dist.	11404 Dec 03 03:51	23° J 19'41	1.32873 AU	superior conj	11405 Nov 15 02:44	2° J 45'34	1°37'29
	11404 Dec 06 08:02	0° Z		minimum elong	11405 Nov 15 01:53	2° J 40'54	1°38'03
evening rise	11404 Dec 08 05:35	3° Z 52'10		max. Earth dist.	11405 Nov 16 08:24	5° J 29'19	1.31908 AU
desc. node	11404 Dec 18 01:37	22° Z 15'29		evening rise	11405 Nov 22 04:33	18° J 02'18	
	11404 Dec 22 17:38	0° \approx			11405 Nov 28 05:04	0° Z	
evening max el	11405 Jan 11 03:13	25° \approx 12'06	27°27'38	desc. node	11405 Dec 04 22:40	11° Z 58'09	
	11405 Jan 17 02:51	0° H			11405 Dec 17 06:39	0° \approx	
retrograde	11405 Jan 24 19:23	2° H 35'59		evening max el	11405 Dec 24 12:51	8° \approx 01'06	27°27'41
evening set	11405 Jan 31 16:38	0° H 05'49		retrograde	11406 Jan 07 09:49	15° \approx 19'09	
	11405 Jan 31 19:48	30° R \approx		evening set	11406 Jan 14 09:28	13° \approx 00'49	

min. Earth dist.	11406 Jan 18 02:56	10°≈05'02	0.62015 AU	retrograde	11406 Dec 20 15:24	27°☾15'49	
inferior conj	11406 Jan 21 02:18	7°≈20'03	-2°24'49	evening set	11406 Dec 27 10:23	25°☾18'18	
minimum elong	11406 Jan 21 07:13	7°≈08'39	2°22'18	min. Earth dist.	11406 Dec 31 07:23	22°☾39'23	0.59898 AU
morning rise	11406 Jan 28 07:35	2°≈16'43		inferior conj	11407 Jan 03 11:28	20°☾05'35	-3°42'33
asc. node	11406 Jan 28 12:19	2°≈13'04		minimum elong	11407 Jan 03 18:56	19°☾50'27	3°39'24
direct	11406 Jan 30 12:38	1°≈55'06		morning rise	11407 Jan 11 06:14	15°☾22'33	
morning max el	11406 Feb 06 08:34	5°≈23'08	17°48'49	direct	11407 Jan 13 08:44	15°☾05'50	
morning set	11406 Feb 22 03:16	29°≈51'22		asc. node	11407 Jan 15 09:32	15°☾22'08	
	11406 Feb 22 05:12	0°☾		morning max el	11407 Jan 20 21:52	18°☾50'59	18°07'17
desc. node	11406 Mar 02 23:00	15°☾23'14			11407 Jan 29 00:15	0°≈	
				morning set	11407 Feb 05 13:08	13°≈37'29	
superior conj	11406 Mar 05 08:52	19°☾30'24	-0°18'22		11407 Feb 14 09:53	0°☾	
minimum elong	11406 Mar 05 07:08	19°☾23'02	0°17'54				
	11406 Mar 11 16:30	0°☾		superior conj	11407 Feb 15 07:04	1°☾35'00	0°19'33
max. Earth dist.	11406 Mar 12 10:14	1°☾12'02	1.43588 AU	minimum elong	11407 Feb 15 08:35	1°☾41'49	0°19'42
evening rise	11406 Mar 19 18:10	12°☾49'44		desc. node	11407 Feb 17 19:42	6°☾03'21	
	11406 Mar 31 02:40	0°☾		max. Earth dist.	11407 Feb 22 22:06	14°☾48'12	1.41733 AU
evening max el	11406 Apr 19 21:50	26°☾07'40	21°31'27	evening rise	11407 Feb 28 01:02	23°☾13'40	
	11406 Apr 24 14:05	0°☾			11407 Mar 04 07:31	0°☾	
asc. node	11406 Apr 26 09:49	0°☾54'29			11407 Mar 25 03:07	0°☾	
retrograde	11406 Apr 28 20:57	1°☾23'40		evening max el	11407 Apr 02 14:40	9°☾55'04	22°49'58
	11406 May 02 18:48	30°☾		retrograde	11407 Apr 12 17:19	15°☾53'18	
evening set	11406 May 03 07:00	29°☾36'28		asc. node	11407 Apr 13 07:06	15°☾51'44	
inferior conj	11406 May 08 13:36	23°☾20'46	3°00'58	evening set	11407 Apr 17 14:36	13°☾51'08	
minimum elong	11406 May 08 12:06	23°☾25'59	3°00'13	inferior conj	11407 Apr 22 22:54	7°☾26'57	2°37'58
min. Earth dist.	11406 May 08 18:33	23°☾03'31	0.68598 AU	minimum elong	11407 Apr 22 20:52	7°☾34'00	2°37'07
morning rise	11406 May 13 17:00	17°☾06'09		min. Earth dist.	11407 Apr 22 15:13	7°☾53'38	0.68729 AU
direct	11406 May 18 18:27	14°☾54'11		morning rise	11407 Apr 28 03:01	1°☾18'28	
morning max el	11406 May 28 19:45	20°☾51'37	22°52'45		11407 Apr 30 03:53	30°☾	
desc. node	11406 May 30 00:10	22°☾05'23		direct	11407 May 02 15:10	29°☾27'16	
	11406 Jun 05 15:29	0°☾			11407 May 05 06:01	0°☾	
	11406 Jun 26 07:05	0°☾		morning max el	11407 May 11 10:07	4°☾32'35	21°26'54
morning set	11406 Jul 02 02:17	9°☾22'13		desc. node	11407 May 16 21:03	10°☾45'04	
max. Earth dist.	11406 Jul 06 13:41	16°☾53'33	1.40113 AU		11407 May 30 17:51	0°☾	
	11406 Jul 13 23:57	0°☾		morning set	11407 Jun 12 01:21	18°☾49'50	
superior conj	11406 Jul 14 08:45	0°☾40'07	-1°17'40	max. Earth dist.	11407 Jun 18 16:26	29°☾30'49	1.42292 AU
minimum elong	11406 Jul 14 14:09	1°☾04'42	1°17'30		11407 Jun 18 23:31	0°☾	
asc. node	11406 Jul 23 08:48	17°☾32'47		superior conj	11407 Jun 26 03:17	12°☾03'56	-1°47'39
evening rise	11406 Jul 24 03:55	19°☾03'56		minimum elong	11407 Jun 26 09:57	12°☾32'44	1°47'42
	11406 Jul 30 00:27	0°☾			11407 Jul 06 05:31	0°☾	
evening max el	11406 Aug 09 04:17	14°☾52'14	18°29'05	evening rise	11407 Jul 07 08:26	2°☾02'10	
retrograde	11406 Aug 16 22:08	18°☾45'39		asc. node	11407 Jul 10 05:41	7°☾15'55	
evening set	11406 Aug 18 23:29	18°☾30'01		evening max el	11407 Jul 23 14:37	27°☾41'39	18°07'28
desc. node	11406 Aug 25 22:30	14°☾34'47			11407 Jul 26 12:05	0°☾	
inferior conj	11406 Aug 26 16:57	13°☾58'46	-0°14'16	retrograde	11407 Jul 30 11:08	1°☾11'12	
minimum elong	11406 Aug 26 16:24	13°☾59'52	0°14'18	evening set	11407 Aug 01 20:01	0°☾46'30	
transit middle	11406 Aug 26 16:24	13°☾59'52	0°14'18		11407 Aug 03 13:10	30°☾	
transit begin	11406 Aug 26 14:45	14°☾03'07		inferior conj	11407 Aug 08 18:59	25°☾54'27	1°11'08
transit end	11406 Aug 26 18:03	13°☾56'36		minimum elong	11407 Aug 08 21:04	25°☾49'40	1°09'57
min. Earth dist.	11406 Aug 30 00:02	11°☾24'21	0.57855 AU	min. Earth dist.	11407 Aug 12 01:33	22°☾55'42	0.60066 AU
morning rise	11406 Sep 03 05:49	8°☾41'25		desc. node	11407 Aug 12 19:52	22°☾16'44	
direct	11406 Sep 09 06:38	7°☾08'22		morning rise	11407 Aug 15 19:05	20°☾06'34	
morning max el	11406 Sep 23 14:34	14°☾44'23	27°00'58	direct	11407 Aug 22 07:10	18°☾05'08	
	11406 Oct 05 21:17	0°☾		morning max el	11407 Sep 05 14:54	25°☾58'14	27°47'59
asc. node	11406 Oct 19 09:49	23°☾32'40			11407 Sep 09 09:12	0°☾	
	11406 Oct 22 13:37	0°☾			11407 Sep 29 09:40	0°☾	
morning set	11406 Oct 23 16:38	2°☾22'36		asc. node	11407 Oct 06 06:35	13°☾17'40	
				morning set	11407 Oct 07 22:05	16°☾41'59	
superior conj	11406 Oct 30 14:23	17°☾32'07	1°30'02	max. Earth dist.	11407 Oct 14 01:53	0°☾01'20	1.31441 AU
minimum elong	11406 Oct 30 12:42	17°☾22'43	1°30'22		11407 Oct 14 01:39	0°☾	
max. Earth dist.	11406 Oct 30 17:01	17°☾46'45	1.31427 AU				
	11406 Nov 05 06:07	0°☾		superior conj	11407 Oct 15 01:43	2°☾13'34	1°17'01
evening rise	11406 Nov 06 09:43	2°☾27'41		minimum elong	11407 Oct 14 23:32	2°☾01'29	1°17'03
	11406 Nov 21 02:35	0°☾		evening rise	11407 Oct 21 18:48	17°☾01'02	
desc. node	11406 Nov 21 19:48	1°☾08'17			11407 Oct 28 02:51	0°☾	
evening max el	11406 Dec 06 17:02	20°☾06'34	26°53'50	desc. node	11407 Nov 08 17:01	19°☾32'09	

	11407 Nov 17 05:02	0°♄				11408 Oct 04 11:50	0°♍		
evening max el	11407 Nov 18 13:04	1°♄18'52	25°46'42	evening rise		11408 Oct 05 05:54	1°♍37'27		
retrograde	11407 Dec 02 10:28	8°♄19'52				11408 Oct 20 12:42	0°♌		
evening set	11407 Dec 08 14:46	6°♄50'57		desc. node		11408 Oct 25 14:16	6°♌52'03		
min. Earth dist.	11407 Dec 13 01:33	4°♄14'36	0.57819 AU	evening max el		11408 Oct 30 01:22	11°♌44'03	24°14'38	
inferior conj	11407 Dec 16 01:50	2°♄07'58	-4°53'52	retrograde		11408 Nov 12 17:42	18°♌34'46		
minimum elong	11407 Dec 16 09:55	1°♄53'46	4°51'17	evening set		11408 Nov 17 18:57	17°♌38'34		
	11407 Dec 19 06:30	30°♌♌		min. Earth dist.		11408 Nov 23 12:19	14°♌45'46	0.56045 AU	
morning rise	11407 Dec 24 07:33	27°♌47'37		inferior conj		11408 Nov 25 19:31	13°♌20'47	-5°41'30	
direct	11407 Dec 26 12:22	27°♌32'24		minimum elong		11408 Nov 25 23:41	13°♌14'21	5°40'28	
asc. node	11408 Jan 02 06:42	0°♄06'45		morning rise		11408 Dec 04 06:31	9°♌21'27		
	11408 Jan 02 03:08	0°♄		direct		11408 Dec 06 20:17	9°♌04'09		
morning max el	11408 Jan 04 03:29	1°♄43'57	18°46'31	morning max el		11408 Dec 16 21:39	13°♌51'36	19°48'16	
morning set	11408 Jan 20 10:00	27°♄52'29		asc. node		11408 Dec 19 03:45	16°♌14'46		
	11408 Jan 21 12:05	0°♌				11408 Dec 28 04:54	0°♄		
				morning set		11409 Jan 03 14:11	12°♄25'39		
superior conj	11408 Jan 29 01:05	14°♌34'35	0°50'27						
minimum elong	11408 Jan 29 03:57	14°♌48'08	0°50'35	superior conj		11409 Jan 11 10:08	28°♄15'33	1°13'31	
desc. node	11408 Feb 04 16:25	26°♌43'24		minimum elong		11409 Jan 11 12:59	28°♄29'39	1°13'49	
max. Earth dist.	11408 Feb 05 05:46	27°♌42'17	1.39571 AU			11409 Jan 12 07:17	0°♌		
	11408 Feb 06 13:15	0°♌		max. Earth dist.		11409 Jan 17 11:54	9°♌57'11	1.37353 AU	
evening rise	11408 Feb 09 04:53	4°♌32'42		evening rise		11409 Jan 21 05:19	16°♌44'50		
	11408 Feb 25 10:58	0°♌		desc. node		11409 Jan 21 13:12	17°♌19'55		
evening max el	11408 Mar 15 04:46	23°♌44'20	24°10'26			11409 Jan 28 23:51	0°♌		
	11408 Mar 24 04:47	0°♌				11409 Feb 18 21:56	0°♌		
retrograde	11408 Mar 26 10:28	0°♌20'10		evening max el		11409 Feb 25 18:03	7°♌34'41	25°26'06	
	11408 Mar 28 13:26	30°♌♌		retrograde		11409 Mar 09 23:24	14°♌38'26		
asc. node	11408 Mar 30 04:26	29°♌15'35		evening set		11409 Mar 15 20:22	12°♌12'34		
evening set	11408 Mar 31 19:36	28°♌04'43		asc. node		11409 Mar 17 01:45	11°♌04'30		
min. Earth dist.	11408 Apr 05 11:24	22°♌42'44	0.68409 AU	min. Earth dist.		11409 Mar 20 04:57	7°♌25'38	0.67664 AU	
inferior conj	11408 Apr 06 07:18	21°♌35'27	2°05'17	inferior conj		11409 Mar 21 12:53	5°♌42'45	1°23'01	
minimum elong	11408 Apr 06 05:08	21°♌42'47	2°04'27	minimum elong		11409 Mar 21 11:05	5°♌48'33	1°22'23	
morning rise	11408 Apr 11 14:45	15°♌34'14				11409 Mar 26 20:26	30°♌♌		
direct	11408 Apr 15 13:57	14°♌04'45		morning rise		11409 Mar 27 02:14	29°♌50'04		
morning max el	11408 Apr 23 07:23	18°♌25'36	20°11'32	direct		11409 Mar 30 13:27	28°♌41'02		
desc. node	11408 May 02 17:50	0°♌03'36				11409 Apr 03 11:31	0°♌		
	11408 May 02 16:48	0°♌		morning max el		11409 Apr 06 12:23	2°♌29'25	19°10'26	
morning set	11408 May 21 04:25	27°♌27'15		greatest brilliancy		11409 Apr 19 12:06	19°♌41'18	-0.7m	
	11408 May 22 19:56	0°♌		desc. node		11409 Apr 19 14:33	19°♌50'26		
max. Earth dist.	11408 May 31 02:08	12°♌59'27	1.44060 AU			11409 Apr 26 06:50	0°♌		
				morning set		11409 Apr 30 06:36	6°♌08'56		
superior conj	11408 Jun 05 22:09	22°♌26'11	-2°08'11	max. Earth dist.		11409 May 13 17:20	27°♌04'41	1.45237 AU	
minimum elong	11408 Jun 06 02:41	22°♌44'47	2°08'42			11409 May 15 13:52	0°♌		
	11408 Jun 10 11:33	0°♌							
evening rise	11408 Jun 18 19:35	14°♌13'11		superior conj		11409 May 16 18:08	1°♌51'39	-2°12'31	
asc. node	11408 Jun 26 02:39	26°♌42'34		minimum elong		11409 May 16 16:01	1°♌43'18	2°13'05	
	11408 Jun 28 02:48	0°♌		evening rise		11409 May 31 08:32	25°♌25'36		
evening max el	11408 Jul 06 04:15	10°♌56'12	18°05'10			11409 Jun 03 03:14	0°♌		
retrograde	11408 Jul 12 14:25	14°♌16'47		asc. node		11409 Jun 12 23:40	15°♌45'42		
evening set	11408 Jul 15 07:15	13°♌40'06		evening max el		11409 Jun 19 17:48	24°♌26'30	18°21'21	
inferior conj	11408 Jul 21 14:59	8°♌29'11	2°11'39	retrograde		11409 Jun 26 03:24	27°♌51'55		
minimum elong	11408 Jul 21 17:40	8°♌22'08	2°10'20	evening set		11409 Jun 29 04:18	27°♌01'08		
min. Earth dist.	11408 Jul 24 12:22	5°♌28'38	0.62331 AU	inferior conj		11409 Jul 05 00:41	21°♌33'20	2°50'07	
morning rise	11408 Jul 28 01:57	2°♌21'08		minimum elong		11409 Jul 05 02:49	21°♌27'07	2°49'03	
desc. node	11408 Jul 29 17:09	1°♌18'40		min. Earth dist.		11409 Jul 07 08:36	18°♌51'03	0.64413 AU	
	11408 Aug 02 15:33	30°♌♌		morning rise		11409 Jul 11 00:03	15°♌14'55		
direct	11408 Aug 03 18:31	29°♌56'03		desc. node		11409 Jul 16 14:22	12°♌38'56		
	11408 Aug 04 21:56	0°♌		direct		11409 Jul 17 14:53	12°♌35'21		
morning max el	11408 Aug 17 21:30	7°♌58'21	27°56'10	morning max el		11409 Jul 31 07:29	20°♌35'45	27°28'03	
	11408 Sep 03 19:18	0°♌				11409 Aug 08 09:52	0°♌		
morning set	11408 Sep 20 21:38	0°♌42'01				11409 Aug 27 21:39	0°♌		
	11408 Sep 20 13:22	0°♌		morning set		11409 Sep 04 12:44	14°♌15'31		
asc. node	11408 Sep 22 03:18	3°♌14'20		max. Earth dist.		11409 Sep 09 04:47	23°♌42'15	1.32999 AU	
max. Earth dist.	11408 Sep 26 07:07	12°♌03'09	1.31962 AU	asc. node		11409 Sep 09 00:01	23°♌17'33		
						11409 Sep 12 04:32	0°♌		
superior conj	11408 Sep 28 10:54	16°♌45'08	0°58'41						
minimum elong	11408 Sep 28 08:43	16°♌33'08	0°58'26	superior conj		11409 Sep 12 15:54	1°♌00'42	0°35'14	

minimum elong	11409 Sep 12 14:16	0° Ω 52'00	0°34'50	minimum elong	11410 Aug 27 13:58	14° η 52'10	0°06'48
evening rise	11409 Sep 19 17:05	16° Ω 11'15		behind sun begin	11410 Aug 27 08:37	14° η 24'33	
	11409 Sep 26 12:35	0° \mathbb{M}		behind sun end	11410 Aug 27 19:19	15° η 19'49	
evening max el	11409 Oct 11 12:09	21° \mathbb{M} 48'58	22°33'33		11410 Sep 03 19:18	0° Ω	
desc. node	11409 Oct 12 11:35	22° \mathbb{M} 44'08		evening rise	11410 Sep 04 02:27	0° Ω 37'20	
retrograde	11409 Oct 24 12:37	28° \mathbb{M} 17'24			11410 Sep 21 06:00	0° \mathbb{M}	
evening set	11409 Oct 28 02:39	27° \mathbb{M} 49'12		evening max el	11410 Sep 23 06:53	2° \mathbb{M} 11'00	21°00'07
min. Earth dist.	11409 Nov 04 19:48	24° \mathbb{M} 21'47	0.54886 AU	desc. node	11410 Sep 29 08:56	6° \mathbb{M} 39'49	
inferior conj	11409 Nov 05 19:21	23° \mathbb{M} 48'23	-5°43'23	retrograde	11410 Oct 04 23:49	7° \mathbb{M} 59'33	
minimum elong	11409 Nov 05 15:18	23° \mathbb{M} 54'08	5°42'32	evening set	11410 Oct 07 09:06	7° \mathbb{M} 46'05	
morning rise	11409 Nov 14 05:28	20° \mathbb{M} 00'38		inferior conj	11410 Oct 16 11:14	3° \mathbb{M} 51'19	-4°47'05
direct	11409 Nov 17 11:01	19° \mathbb{M} 36'51		minimum elong	11410 Oct 16 01:29	4° \mathbb{M} 05'07	4°44'21
morning max el	11409 Nov 29 01:58	25° \mathbb{M} 07'15	21°12'32	min. Earth dist.	11410 Oct 17 03:06	3° \mathbb{M} 28'51	0.54597 AU
	11409 Dec 03 11:20	0° \mathcal{A}		morning rise	11410 Oct 24 18:08	29° Ω 57'47	
asc. node	11409 Dec 06 00:43	3° \mathcal{A} 30'03			11410 Oct 24 15:03	30° \mathcal{R} Ω	
morning set	11409 Dec 18 22:59	27° \mathcal{A} 09'08		direct	11410 Oct 28 19:13	29° Ω 22'39	
	11409 Dec 20 07:41	0° \mathcal{B}			11410 Nov 01 20:45	0° \mathbb{M}	
				morning max el	11410 Nov 10 18:04	5° \mathbb{M} 36'13	22°54'34
superior conj	11409 Dec 26 06:02	12° \mathcal{B} 25'54	1°28'57	asc. node	11410 Nov 22 21:38	21° \mathbb{M} 37'22	
minimum elong	11409 Dec 26 08:04	12° \mathcal{B} 36'27	1°29'28		11410 Nov 27 13:10	0° \mathcal{A}	
max. Earth dist.	11409 Dec 30 21:38	21° \mathcal{B} 51'12	1.35319 AU	morning set	11410 Dec 03 10:12	11° \mathcal{A} 56'29	
evening rise	11410 Jan 03 23:17	29° \mathcal{B} 41'59					
	11410 Jan 04 03:08	0° \approx		superior conj	11410 Dec 10 09:26	26° \mathcal{A} 55'35	1°37'17
desc. node	11410 Jan 08 10:03	7° \approx 48'56		minimum elong	11410 Dec 10 10:21	27° \mathcal{A} 00'28	1°37'58
	11410 Jan 22 03:53	0° \mathcal{H}			11410 Dec 11 20:03	0° \mathcal{B}	
evening max el	11410 Feb 08 07:35	21° \mathcal{H} 21'57	26°29'45	max. Earth dist.	11410 Dec 13 14:55	3° \mathcal{B} 45'17	1.33641 AU
retrograde	11410 Feb 21 07:05	28° \mathcal{H} 41'25		evening rise	11410 Dec 18 07:05	13° \mathcal{B} 14'03	
evening set	11410 Feb 27 15:12	26° \mathcal{H} 09'24		desc. node	11410 Dec 26 06:58	28° \mathcal{B} 05'04	
min. Earth dist.	11410 Mar 03 17:48	21° \mathcal{H} 56'48	0.66518 AU		11410 Dec 27 09:30	0° \approx	
asc. node	11410 Mar 03 23:03	21° \mathcal{H} 41'13			11411 Jan 17 04:38	0° \mathcal{H}	
inferior conj	11410 Mar 05 13:38	19° \mathcal{H} 44'45	0°31'04	evening max el	11411 Jan 21 21:04	4° \mathcal{H} 56'25	27°13'56
minimum elong	11410 Mar 05 12:49	19° \mathcal{H} 47'12	0°30'57	retrograde	11411 Feb 04 08:36	12° \mathcal{H} 20'22	
morning rise	11410 Mar 11 11:25	14° \mathcal{H} 02'24		evening set	11411 Feb 11 01:58	9° \mathcal{H} 47'46	
direct	11410 Mar 14 11:58	13° \mathcal{H} 11'08		min. Earth dist.	11411 Feb 14 23:36	6° \mathcal{H} 08'09	0.65007 AU
morning max el	11410 Mar 21 00:06	16° \mathcal{H} 39'33	18°25'33	inferior conj	11411 Feb 17 07:10	3° \mathcal{H} 34'57	-0°30'33
	11410 Mar 31 01:54	0° Υ		minimum elong	11411 Feb 17 08:03	3° \mathcal{H} 32'28	0°29'48
desc. node	11410 Apr 06 11:14	9° Υ 58'12		asc. node	11411 Feb 18 20:20	1° \mathcal{H} 54'27	
morning set	11410 Apr 10 05:37	15° Υ 56'19			11411 Feb 20 19:49	30° \mathcal{R} \approx	
	11410 Apr 19 03:19	0° \mathcal{B}		morning rise	11411 Feb 23 15:45	28° \approx 05'23	
				direct	11411 Feb 26 07:14	27° \approx 28'27	
superior conj	11410 Apr 26 01:23	10° \mathcal{B} 50'22	-1°56'37		11411 Mar 03 19:18	0° \mathcal{H}	
minimum elong	11410 Apr 25 16:52	10° \mathcal{B} 17'05	1°56'25	morning max el	11411 Mar 04 16:13	0° \mathcal{H} 48'26	17°57'32
max. Earth dist.	11410 Apr 26 12:07	11° \mathcal{B} 32'19	1.45711 AU	morning set	11411 Mar 22 09:38	27° \mathcal{H} 09'40	
	11410 May 08 07:11	0° \mathbb{I}		desc. node	11411 Mar 24 07:53	0° Υ 20'25	
evening rise	11410 May 11 21:20	5° \mathbb{I} 38'54			11411 Mar 24 02:55	0° Υ	
greatest brilliancy	11410 May 21 11:47	20° \mathbb{I} 43'33	-0.8m				
	11410 May 27 16:26	0° \mathcal{E}		superior conj	11411 Apr 05 13:27	20° Υ 08'25	-1°23'33
asc. node	11410 May 30 20:44	4° \mathcal{E} 17'34		minimum elong	11411 Apr 05 04:47	19° Υ 33'59	1°22'43
evening max el	11410 Jun 03 04:37	8° \mathcal{E} 06'10	18°55'06	max. Earth dist.	11411 Apr 09 08:13	26° Υ 06'42	1.45435 AU
retrograde	11410 Jun 09 22:19	11° \mathcal{E} 49'19			11411 Apr 11 19:48	0° \mathcal{B}	
evening set	11410 Jun 13 07:39	10° \mathcal{E} 43'01		evening rise	11411 Apr 21 14:56	15° \mathcal{B} 10'13	
inferior conj	11410 Jun 18 20:22	4° \mathcal{E} 59'49	3°10'29		11411 May 01 08:17	0° \mathbb{I}	
minimum elong	11410 Jun 18 21:27	4° \mathcal{E} 56'25	3°09'41	greatest brilliancy	11411 May 05 18:33	6° \mathbb{I} 35'46	-0.6m
min. Earth dist.	11410 Jun 20 13:23	2° \mathcal{E} 50'26	0.66158 AU	evening max el	11411 May 17 10:44	21° \mathbb{I} 49'54	19°45'13
	11410 Jun 23 00:24	30° \mathcal{R} \mathbb{I}		asc. node	11411 May 17 17:53	22° \mathbb{I} 07'42	
morning rise	11410 Jun 24 10:34	28° \mathbb{I} 38'03		retrograde	11411 May 24 20:20	26° \mathbb{I} 02'34	
direct	11410 Jun 30 18:32	25° \mathbb{I} 55'00		evening set	11411 May 28 14:39	24° \mathbb{I} 40'09	
desc. node	11410 Jul 03 11:31	26° \mathbb{I} 20'43		inferior conj	11411 Jun 02 22:55	18° \mathbb{I} 42'51	3°16'11
	11410 Jul 09 18:46	0° \mathcal{E}		minimum elong	11411 Jun 02 22:52	18° \mathbb{I} 43'01	3°15'30
morning max el	11410 Jul 13 18:13	3° \mathcal{E} 38'49	26°30'30	min. Earth dist.	11411 Jun 04 01:12	17° \mathbb{I} 14'57	0.67470 AU
	11410 Aug 02 18:14	0° \mathcal{Q}		morning rise	11411 Jun 08 06:43	12° \mathbb{I} 22'02	
morning set	11410 Aug 18 16:11	27° \mathcal{Q} 14'19		direct	11411 Jun 14 04:13	9° \mathbb{I} 45'38	
	11410 Aug 20 03:05	0° η		desc. node	11411 Jun 20 08:35	11° \mathbb{I} 59'11	
max. Earth dist.	11410 Aug 22 16:19	4° η 57'37	1.34543 AU	morning max el	11411 Jun 26 04:22	16° \mathbb{I} 57'31	25°12'43
asc. node	11410 Aug 26 20:45	13° η 23'26			11411 Jul 07 00:44	0° \mathcal{E}	
					11411 Jul 26 17:25	0° \mathcal{Q}	
superior conj	11410 Aug 27 14:21	14° η 54'08	0°07'08	morning set	11411 Aug 01 04:00	9° \mathcal{Q} 28'22	

max. Earth dist.	11411 Aug 04 18:33	16°Ω03'35	1.36525 AU		11412 Jul 18 02:45	0°Ω	
superior conj	11411 Aug 11 03:24	28°Ω18'04	-0°24'41	superior conj	11412 Jul 24 03:20	11°Ω02'51	-0°58'27
minimum elong	11411 Aug 11 04:58	28°Ω25'52	0°24'48	minimum elong	11412 Jul 24 07:22	11°Ω21'48	0°58'20
	11411 Aug 11 23:55	0°൬		asc. node	11412 Jul 30 14:20	23°Ω27'55	
asc. node	11411 Aug 13 17:31	3°൬28'22		evening rise	11412 Aug 02 06:21	28°Ω40'47	
evening rise	11411 Aug 19 07:47	14°൬49'54			11412 Aug 02 22:36	0°൬	
	11411 Aug 27 04:52	0°Ω		evening max el	11412 Aug 18 12:13	25°൬05'28	18°50'31
evening max el	11411 Sep 05 15:04	13°Ω15'07	19°44'41	retrograde	11412 Aug 26 23:45	29°൬19'59	
retrograde	11411 Sep 15 15:53	18°Ω14'44		evening set	11412 Aug 28 21:30	29°൬07'56	
desc. node	11411 Sep 16 06:18	18°Ω13'44		desc. node	11412 Sep 02 03:41	27°൬24'40	
evening set	11411 Sep 17 12:58	18°Ω05'02		inferior conj	11412 Sep 06 02:01	24°൬48'11	-1°13'49
inferior conj	11411 Sep 26 09:41	14°Ω02'29	-3°06'31	minimum elong	11412 Sep 05 22:55	24°൬53'46	1°12'43
minimum elong	11411 Sep 26 01:32	14°Ω15'07	3°03'29	min. Earth dist.	11412 Sep 09 03:13	22°൬37'17	0.56729 AU
min. Earth dist.	11411 Sep 28 12:45	12°Ω43'25	0.55250 AU	morning rise	11412 Sep 13 21:02	19°൬51'37	
morning rise	11411 Oct 04 12:23	9°Ω43'15		direct	11412 Sep 19 12:22	18°൬35'10	
direct	11411 Oct 09 09:11	8°Ω51'06		morning max el	11412 Oct 03 18:31	25°൬57'45	26°17'56
morning max el	11411 Oct 23 04:58	15°Ω42'38	24°42'13		11412 Oct 07 14:13	0°Ω	
	11411 Nov 03 14:52	0°൬		asc. node	11412 Oct 26 15:21	29°Ω39'13	
asc. node	11411 Nov 09 18:31	10°൬24'04			11412 Oct 26 19:37	0°൬	
morning set	11411 Nov 17 22:03	26°൬42'56		morning set	11412 Nov 01 08:48	11°൬22'35	
	11411 Nov 19 10:36	0°♌					
superior conj	11411 Nov 24 17:46	11°♌37'15	1°39'09	superior conj	11412 Nov 08 04:45	26°൬23'23	1°35'01
minimum elong	11411 Nov 24 17:31	11°♌35'55	1°39'49	minimum elong	11412 Nov 08 03:31	26°൬16'30	1°35'30
max. Earth dist.	11411 Nov 26 16:10	15°♌50'22	1.32406 AU	max. Earth dist.	11412 Nov 08 22:55	28°൬04'12	1.31642 AU
evening rise	11411 Dec 02 01:24	27°♌12'45			11412 Nov 09 19:49	0°♌	
	11411 Dec 03 10:28	0°♌		evening rise	11412 Nov 15 03:17	11°♌29'37	
desc. node	11411 Dec 13 04:00	18°♌02'27			11412 Nov 24 15:11	0°♌	
	11411 Dec 20 16:31	0°♌		desc. node	11412 Nov 29 01:06	7°♌32'27	
evening max el	11412 Jan 04 08:47	18°♌05'42	27°31'37		11412 Dec 16 01:06	0°♌	
retrograde	11412 Jan 18 03:04	25°♌26'46		evening max el	11412 Dec 16 16:12	0°♌36'16	27°17'26
evening set	11412 Jan 25 02:13	23°♌00'37		retrograde	11412 Dec 30 13:51	7°♌50'58	
min. Earth dist.	11412 Jan 28 20:21	19°♌50'49	0.63183 AU	evening set	11413 Jan 06 12:45	5°♌40'01	
inferior conj	11412 Jan 31 14:43	17°♌06'32	-1°41'03	min. Earth dist.	11413 Jan 10 06:41	2°♌53'10	0.61123 AU
minimum elong	11412 Jan 31 18:02	16°♌58'18	1°39'10	inferior conj	11413 Jan 13 09:00	0°♌10'47	-2°57'50
asc. node	11412 Feb 05 17:35	12°♌45'12		minimum elong	11413 Jan 13 15:06	29°♌57'26	2°54'57
morning rise	11412 Feb 07 12:06	11°♌52'48			11413 Jan 13 13:55	30°♌♌	
direct	11412 Feb 09 20:22	11°♌26'35		morning rise	11413 Jan 20 20:11	25°♌16'06	
morning max el	11412 Feb 16 09:53	14°♌48'31	17°46'51	direct	11413 Jan 22 23:43	24°♌56'59	
	11412 Feb 27 01:17	0°♌		asc. node	11413 Jan 22 14:49	24°♌57'34	
morning set	11412 Mar 03 15:28	9°♌37'07		morning max el	11413 Jan 30 01:51	28°♌30'51	17°54'21
desc. node	11412 Mar 10 04:33	20°♌52'36			11413 Jan 31 11:23	0°♌	
				morning set	11413 Feb 14 16:46	22°♌59'04	
superior conj	11412 Mar 15 21:22	0°♌24'58	-0°42'18		11413 Feb 18 13:27	0°♌	
minimum elong	11412 Mar 15 17:00	0°♌06'56	0°41'35	superior conj	11413 Feb 25 06:07	11°♌51'54	-0°01'35
	11412 Mar 15 15:19	0°♌		minimum elong	11413 Feb 25 06:01	11°♌51'24	0°01'16
max. Earth dist.	11412 Mar 22 02:41	10°♌30'15	1.44443 AU	behind sun begin	11413 Feb 24 21:46	11°♌15'39	
evening rise	11412 Mar 31 02:25	24°♌34'41		behind sun end	11413 Feb 25 14:15	12°♌27'05	
	11412 Apr 03 15:35	0°♌		desc. node	11413 Feb 25 01:15	11°♌30'44	
	11412 Apr 24 14:27	0°♌		max. Earth dist.	11413 Mar 04 16:54	24°♌25'50	1.42843 AU
evening max el	11412 Apr 29 11:06	5°♌34'31	20°49'26		11413 Mar 08 03:16	0°♌	
asc. node	11412 May 03 15:06	9°♌02'58		evening rise	11413 Mar 10 22:59	4°♌29'10	
retrograde	11412 May 07 19:09	10°♌26'03			11413 Mar 27 23:48	0°♌	
evening set	11412 May 11 23:15	8°♌47'34		evening max el	11413 Apr 12 06:08	19°♌20'05	22°04'12
inferior conj	11412 May 17 05:46	2°♌37'47	3°09'39	asc. node	11413 Apr 20 12:21	24°♌48'04	
minimum elong	11412 May 17 04:43	2°♌41'23	3°08'57	retrograde	11413 Apr 21 16:59	24°♌54'54	
min. Earth dist.	11412 May 17 18:10	1°♌54'54	0.68319 AU	evening set	11413 Apr 26 07:41	23°♌01'05	
	11412 May 19 04:07	30°♌♌		inferior conj	11413 May 01 14:44	16°♌41'08	2°52'25
morning rise	11412 May 22 09:59	26°♌20'28		minimum elong	11413 May 01 12:58	16°♌47'18	2°51'38
direct	11412 May 27 18:55	23°♌58'17		min. Earth dist.	11413 May 01 14:11	16°♌43'04	0.68701 AU
desc. node	11412 Jun 06 05:34	29°♌05'40		morning rise	11413 May 06 18:06	10°♌28'54	
	11412 Jun 07 04:08	0°♌		direct	11413 May 11 13:46	8°♌25'42	
morning max el	11412 Jun 07 14:16	0°♌25'20	23°44'29	morning max el	11413 May 21 02:06	14°♌01'08	22°15'24
	11412 Jun 29 21:37	0°♌		desc. node	11413 May 24 02:29	17°♌16'43	
morning set	11412 Jul 12 19:15	20°♌44'50			11413 Jun 02 22:52	0°♌	
max. Earth dist.	11412 Jul 16 16:01	27°♌26'06	1.38785 AU		11413 Jun 22 20:14	0°♌	

morning set	11413 Jun 23 09:29	0°☿53'32		11414 May 27 11:45	0°♊	
max. Earth dist.	11413 Jun 28 15:06	9°☿31'11	1.41069 AU	morning set	11414 Jun 02 22:27	9°♊54'48
				max. Earth dist.	11414 Jun 10 20:11	22°♊28'54 1.43103 AU
					11414 Jun 15 10:02	0°☿
superior conj	11413 Jul 06 09:57	22°☿59'19	-1°31'07			
minimum elong	11413 Jul 06 16:08	23°☿26'56	1°31'00			
	11413 Jul 10 07:08	0°♊		superior conj	11414 Jun 17 18:41	3°☿57'17 -1°57'55
evening rise	11413 Jul 16 18:43	12°♊01'36		minimum elong	11414 Jun 18 01:01	4°☿23'58 1°58'10
asc. node	11413 Jul 17 11:12	13°♊18'34		evening rise	11414 Jun 29 16:25	24°☿40'40
	11413 Jul 26 22:17	0°♊			11414 Jul 02 16:19	0°♊
evening max el	11413 Aug 01 18:58	7°♊36'36	18°17'25	asc. node	11414 Jul 04 08:06	2°♊55'08
retrograde	11413 Aug 09 02:33	11°♊18'12		evening max el	11414 Jul 16 07:12	20°♊38'05 18°04'13
evening set	11413 Aug 11 06:49	10°♊59'17		retrograde	11414 Jul 22 21:59	24°♊01'45
inferior conj	11413 Aug 18 16:11	6°♊19'15	0°24'56	evening set	11414 Jul 25 10:16	23°♊32'17
minimum elong	11413 Aug 18 17:02	6°♊17'28	0°24'16	inferior conj	11414 Aug 01 02:20	18°♊32'17 1°39'40
desc. node	11413 Aug 20 01:02	5°♊09'42		minimum elong	11414 Aug 01 04:52	18°♊26'07 1°38'21
min. Earth dist.	11413 Aug 22 00:31	3°♊31'27	0.58770 AU	min. Earth dist.	11414 Aug 04 05:56	15°♊29'51 0.61043 AU
morning rise	11413 Aug 25 23:46	0°♊47'22		desc. node	11414 Aug 06 22:20	13°♊14'13
	11413 Aug 27 14:44	30°♊♊		morning rise	11414 Aug 07 20:47	12°♊34'39
direct	11413 Sep 01 06:04	29°♊01'49		direct	11414 Aug 14 11:51	10°♊21'54
	11413 Sep 06 00:51	0°♊		morning max el	11414 Aug 28 17:53	18°♊20'14 27°56'03
morning max el	11413 Sep 15 14:48	6°♊46'55	27°25'30		11414 Sep 07 13:05	0°♊
	11413 Oct 03 00:25	0°♊			11414 Sep 25 19:13	0°♊
asc. node	11413 Oct 13 12:09	19°♊15'16		asc. node	11414 Sep 30 08:55	9°♊05'53
morning set	11413 Oct 16 16:43	25°♊50'56		morning set	11414 Sep 30 19:57	10°♊02'50
	11413 Oct 18 15:17	0°♊		max. Earth dist.	11414 Oct 06 15:34	22°♊30'16 1.31599 AU
superior conj	11413 Oct 23 16:31	11°♊08'23	1°25'11	superior conj	11414 Oct 08 03:12	25°♊46'41 1°09'54
minimum elong	11413 Oct 23 14:34	10°♊57'33	1°25'23	minimum elong	11414 Oct 08 00:57	25°♊34'16 1°09'48
max. Earth dist.	11413 Oct 23 07:56	10°♊20'35	1.31370 AU		11414 Oct 10 00:55	0°♊
evening rise	11413 Oct 30 10:21	25°♊58'40		evening rise	11414 Oct 14 20:33	10°♊34'14
	11413 Nov 01 08:04	0°♊			11414 Oct 24 15:27	0°♊
desc. node	11413 Nov 15 22:16	26°♊24'27		desc. node	11414 Nov 02 19:29	14°♊23'46
	11413 Nov 18 08:56	0°♊		evening max el	11414 Nov 10 09:34	23°♊10'07 25°09'53
evening max el	11413 Nov 28 16:55	12°♊18'30	26°28'59		11414 Nov 22 11:49	0°♊
retrograde	11413 Dec 12 15:33	19°♊25'06		retrograde	11414 Nov 24 05:54	0°♊07'09
evening set	11413 Dec 19 05:31	17°♊38'47			11414 Nov 26 00:03	30°♊♊
min. Earth dist.	11413 Dec 23 06:38	15°♊02'58	0.58987 AU	evening set	11414 Nov 29 23:55	28°♊52'27
inferior conj	11413 Dec 26 10:29	12°♊38'30	-4°14'31	min. Earth dist.	11414 Dec 04 21:37	26°♊11'12 0.57006 AU
minimum elong	11413 Dec 26 18:36	12°♊23'00	4°11'25	inferior conj	11414 Dec 07 16:12	24°♊21'00 -5°18'17
morning rise	11414 Jan 03 10:28	8°♊05'12		minimum elong	11414 Dec 07 23:18	24°♊09'13 5°16'20
direct	11414 Jan 05 13:02	7°♊49'41		morning rise	11414 Dec 16 00:56	20°♊09'44
asc. node	11414 Jan 09 12:00	8°♊47'32		direct	11414 Dec 18 08:35	19°♊54'07
morning max el	11414 Jan 13 12:24	11°♊45'10	18°21'22	asc. node	11414 Dec 27 09:07	24°♊09'41
	11414 Jan 25 15:03	0°♊		morning max el	11414 Dec 27 13:36	24°♊20'24 19°09'54
morning set	11414 Jan 29 07:48	6°♊58'21			11415 Jan 01 07:24	0°♊
				morning set	11415 Jan 13 08:13	21°♊22'35
					11415 Jan 17 16:17	0°♊
superior conj	11414 Feb 07 13:18	24°♊21'09	0°33'36			
minimum elong	11414 Feb 07 15:37	24°♊31'42	0°33'42			
	11414 Feb 10 16:21	0°♊		superior conj	11415 Jan 21 14:18	7°♊39'58 1°01'11
desc. node	11414 Feb 11 21:56	2°♊10'59		minimum elong	11415 Jan 21 17:17	7°♊54'24 1°01'22
max. Earth dist.	11414 Feb 15 02:13	7°♊42'03	1.40826 AU	max. Earth dist.	11415 Jan 28 08:43	20°♊18'14 1.38621 AU
evening rise	11414 Feb 19 14:28	15°♊15'44		desc. node	11415 Jan 29 18:41	22°♊50'11
	11414 Feb 28 22:14	0°♊		evening rise	11415 Feb 01 03:27	26°♊58'51
	11414 Mar 22 22:57	0°♊			11415 Feb 02 21:43	0°♊
evening max el	11414 Mar 25 21:29	3°♊07'45	23°24'27		11415 Feb 22 11:05	0°♊
retrograde	11414 Apr 05 12:12	9°♊23'30		evening max el	11415 Mar 08 11:13	16°♊58'25 24°43'42
asc. node	11414 Apr 07 09:39	9°♊06'35		retrograde	11415 Mar 20 03:33	23°♊47'04
evening set	11414 Apr 10 14:20	7°♊15'37		asc. node	11415 Mar 25 06:57	21°♊49'02
inferior conj	11414 Apr 15 23:52	0°♊48'39	2°25'17	evening set	11415 Mar 25 17:42	21°♊27'03
minimum elong	11414 Apr 15 21:44	0°♊56'02	2°24'26	min. Earth dist.	11415 Mar 30 06:23	16°♊19'52 0.68144 AU
min. Earth dist.	11414 Apr 15 11:00	1°♊32'59	0.68637 AU	inferior conj	11415 Mar 31 07:18	14°♊57'05 1°48'34
	11414 Apr 16 14:02	30°♊♊		minimum elong	11415 Mar 31 05:13	15°♊04'00 1°47'46
morning rise	11414 Apr 21 05:03	24°♊42'50		morning rise	11415 Apr 05 16:56	8°♊59'07
direct	11414 Apr 25 11:34	23°♊00'50		direct	11415 Apr 09 10:59	7°♊38'21
morning max el	11414 May 03 19:03	27°♊46'29	20°53'17	morning max el	11415 Apr 16 19:28	11°♊43'40 19°43'36
	11414 May 05 21:24	0°♊		desc. node	11415 Apr 27 20:03	25°♊45'34
desc. node	11414 May 10 23:18	6°♊14'08		greatest brilliancy	11415 Apr 29 14:35	28°♊19'51 -0.6m

	11415 Apr 30 17:51	0°♄				11416 Apr 02 19:39	0°♅		
morning set	11415 May 12 22:05	18°♄24'44			desc. node	11416 Apr 13 16:46	15°♅41'46		
	11415 May 20 09:19	0°♅			morning set	11416 Apr 21 07:07	27°♅28'50		
max. Earth dist.	11415 May 24 08:27	6°♅14'38	1.44647 AU			11416 Apr 22 21:55	0°♄		
					max. Earth dist.	11416 May 06 02:03	20°♄33'15	1.45531 AU	
superior conj	11415 May 29 03:14	13°♅53'16	-2°12'22						
minimum elong	11415 May 29 05:23	14°♅01'56	2°12'59		superior conj	11416 May 07 15:53	23°♄01'29	-2°08'14	
	11415 Jun 07 22:34	0°♄			minimum elong	11416 May 07 10:33	22°♄40'33	2°08'33	
evening rise	11415 Jun 11 18:31	6°♄26'53				11416 May 12 02:13	0°♅		
asc. node	11415 Jun 21 05:03	22°♄12'08			evening rise	11416 May 22 21:07	17°♅13'23		
	11415 Jun 26 11:08	0°♄				11416 May 30 19:43	0°♄		
evening max el	11415 Jun 29 21:12	4°♄00'09	18°09'53		asc. node	11416 Jun 07 02:05	11°♄02'50		
retrograde	11415 Jul 06 05:49	7°♄20'48			evening max el	11416 Jun 12 09:52	17°♄34'57	18°33'37	
evening set	11415 Jul 09 02:11	6°♄38'09			retrograde	11416 Jun 18 21:50	21°♄06'25		
inferior conj	11415 Jul 15 04:36	1°♄19'47	2°30'25		evening set	11416 Jun 22 02:19	20°♄09'00		
minimum elong	11415 Jul 15 07:09	1°♄12'46	2°29'11		inferior conj	11416 Jun 27 18:58	14°♄34'12	3°00'46	
	11415 Jul 16 09:30	30°♄			minimum elong	11416 Jun 27 20:41	14°♄29'01	2°59'49	
min. Earth dist.	11415 Jul 17 20:33	28°♄25'05	0.63255 AU		min. Earth dist.	11416 Jun 29 20:29	12°♄04'48	0.65198 AU	
morning rise	11415 Jul 21 10:25	25°♄06'37			morning rise	11416 Jul 03 14:06	8°♄13'41		
desc. node	11415 Jul 24 19:35	23°♄10'48			direct	11416 Jul 10 02:26	5°♄31'42		
direct	11415 Jul 28 03:06	22°♄34'11			desc. node	11416 Jul 10 16:46	5°♄32'57		
	11415 Aug 10 11:22	0°♄			morning max el	11416 Jul 23 12:45	13°♄26'31	27°06'51	
morning max el	11415 Aug 11 02:01	0°♄36'16	27°48'19			11416 Aug 05 21:25	0°♄		
	11415 Sep 01 15:39	0°♄				11416 Aug 24 07:09	0°♄		
morning set	11415 Sep 14 16:12	23°♄52'04			morning set	11416 Aug 28 02:49	7°♄12'05		
asc. node	11415 Sep 17 05:37	29°♄05'37			max. Earth dist.	11416 Sep 01 12:00	15°♄53'51	1.33598 AU	
	11415 Sep 17 16:05	0°♄			asc. node	11416 Sep 03 02:20	19°♄10'28		
max. Earth dist.	11415 Sep 19 18:04	4°♄23'25	1.32343 AU						
					superior conj	11416 Sep 05 13:24	24°♄19'06	0°23'51	
superior conj	11415 Sep 22 10:51	10°♄12'05	0°49'21		minimum elong	11416 Sep 05 12:13	24°♄12'51	0°23'29	
minimum elong	11415 Sep 22 08:50	10°♄01'04	0°49'02			11416 Sep 08 05:32	0°♄		
evening rise	11415 Sep 29 07:55	25°♄10'21			evening rise	11416 Sep 12 18:38	9°♄41'57		
	11415 Oct 01 14:40	0°♄				11416 Sep 23 06:54	0°♄		
	11415 Oct 19 16:10	0°♄			evening max el	11416 Oct 03 09:16	13°♄30'13	21°52'01	
desc. node	11415 Oct 20 16:46	1°♄09'36			desc. node	11416 Oct 06 14:05	16°♄16'00		
evening max el	11415 Oct 22 20:19	3°♄22'52	23°31'43		retrograde	11416 Oct 15 21:55	19°♄44'05		
retrograde	11415 Nov 05 07:14	10°♄05'20			evening set	11416 Oct 18 22:16	19°♄23'40		
evening set	11415 Nov 09 18:05	9°♄22'15			inferior conj	11416 Oct 27 20:26	15°♄26'35	-5°26'29	
min. Earth dist.	11415 Nov 16 06:20	6°♄16'58	0.55465 AU		minimum elong	11416 Oct 27 13:10	15°♄36'45	5°24'54	
inferior conj	11415 Nov 18 01:37	5°♄13'18	-5°49'03		min. Earth dist.	11416 Oct 27 13:03	15°♄36'55	0.54653 AU	
minimum elong	11415 Nov 18 02:33	5°♄11'54	5°48'26		morning rise	11416 Nov 05 05:20	11°♄39'18		
morning rise	11415 Nov 26 12:49	1°♄20'31			direct	11416 Nov 08 18:57	11°♄11'26		
direct	11415 Nov 29 08:53	1°♄00'50			morning max el	11416 Nov 21 00:31	16°♄59'48	21°54'17	
morning max el	11415 Dec 10 01:54	6°♄05'44	20°21'24		asc. node	11416 Nov 30 03:07	28°♄27'00		
asc. node	11415 Dec 14 06:09	10°♄48'07				11416 Dec 01 02:28	0°♄		
	11415 Dec 25 15:12	0°♄			morning set	11416 Dec 12 00:46	20°♄46'58		
morning set	11415 Dec 28 14:41	6°♄01'11				11416 Dec 16 09:00	0°♄		
superior conj	11416 Jan 05 04:25	21°♄34'33	1°20'57		superior conj	11416 Dec 19 03:55	5°♄54'09	1°33'18	
minimum elong	11416 Jan 05 06:59	21°♄47'31	1°21'21		minimum elong	11416 Dec 19 05:29	6°♄02'27	1°33'55	
	11416 Jan 09 10:26	0°♄			max. Earth dist.	11416 Dec 23 04:59	14°♄15'25	1.34559 AU	
max. Earth dist.	11416 Jan 10 16:13	2°♄23'20	1.36460 AU		evening rise	11416 Dec 27 12:06	22°♄43'44		
evening rise	11416 Jan 14 11:49	9°♄31'07				11416 Dec 31 09:32	0°♄		
desc. node	11416 Jan 16 15:30	13°♄23'50			desc. node	11417 Jan 02 12:24	3°♄47'38		
	11416 Jan 26 14:02	0°♄				11417 Jan 19 07:20	0°♄		
	11416 Feb 18 05:14	0°♄			evening max el	11417 Jan 31 14:08	14°♄30'25	26°51'12	
evening max el	11416 Feb 19 00:41	0°♄48'19	25°55'02		retrograde	11417 Feb 13 19:16	21°♄53'04		
retrograde	11416 Mar 02 14:08	7°♄59'21			evening set	11417 Feb 20 07:48	19°♄19'40		
evening set	11416 Mar 08 16:08	5°♄30'17			min. Earth dist.	11417 Feb 24 08:03	15°♄21'39	0.65923 AU	
asc. node	11416 Mar 11 04:15	3°♄02'19			inferior conj	11417 Feb 26 09:02	12°♄59'17	0°06'06	
min. Earth dist.	11416 Mar 12 22:05	0°♄58'12	0.67231 AU		minimum elong	11417 Feb 26 08:52	12°♄59'49	0°06'17	
	11416 Mar 13 16:43	30°♄			transit middle	11417 Feb 26 08:52	12°♄59'49	0°06'17	
inferior conj	11416 Mar 14 11:04	29°♄02'12	1°02'12		transit begin	11417 Feb 26 06:09	13°♄07'44		
minimum elong	11416 Mar 14 09:37	29°♄06'47	1°01'44		transit end	11417 Feb 26 11:35	12°♄51'54		
morning rise	11416 Mar 20 03:43	23°♄13'46			asc. node	11417 Feb 26 01:33	13°♄21'10		
direct	11416 Mar 23 10:20	22°♄12'32			morning rise	11417 Mar 04 11:11	7°♄22'21		
morning max el	11416 Mar 30 03:32	25°♄50'27	18°49'19		direct	11417 Mar 07 07:39	6°♄37'42		

morning max el	11417 Mar 13 17:31	10° X 01'00	18°11'34	minimum elong	11418 Feb 10 00:35	26° \approx 37'49	0°58'16
	11417 Mar 27 20:59	0° Y		asc. node	11418 Feb 12 22:51	23° \approx 43'34	
desc. node	11417 Mar 31 13:28	5° Y 55'57		morning rise	11418 Feb 16 12:35	21° \approx 19'41	
morning set	11417 Apr 01 18:16	7° Y 52'05		direct	11418 Feb 19 00:37	20° \approx 47'55	
	11417 Apr 15 15:48	0° Z		morning max el	11418 Feb 25 10:46	24° \approx 07'46	17°50'50
					11418 Mar 02 06:03	0° X	
superior conj	11417 Apr 16 22:51	2° Z 01'51	-1°44'12	morning set	11418 Mar 14 10:03	19° X 39'26	
minimum elong	11417 Apr 16 13:26	1° Z 24'56	1°43'40	desc. node	11418 Mar 18 10:08	26° X 23'02	
max. Earth dist.	11417 Apr 18 21:45	5° Z 05'25	1.45680 AU		11418 Mar 20 14:16	0° Y	
evening rise	11417 May 03 00:37	27° Z 05'02					
	11417 May 04 21:37	0° II		superior conj	11418 Mar 27 18:15	11° Y 42'30	-1°06'29
greatest brilliancy	11417 May 14 17:48	15° II 09'53	-0.7m	minimum elong	11418 Mar 27 11:10	11° Y 13'57	1°05'38
asc. node	11417 May 24 23:11	29° II 17'54		max. Earth dist.	11418 Apr 01 16:58	19° Y 35'31	1.45091 AU
	11417 May 25 14:04	0° S			11418 Apr 08 08:49	0° Z	
evening max el	11417 May 26 18:45	1° S 15'51	19°14'32	evening rise	11418 Apr 12 13:43	6° Z 28'33	
retrograde	11417 Jun 02 18:30	5° S 10'43		greatest brilliancy	11418 Apr 27 12:42	28° Z 55'50	-0.6m
evening set	11417 Jun 06 07:29	3° S 57'39			11418 Apr 28 06:27	0° II	
	11417 Jun 10 06:49	30° K II		evening max el	11418 May 09 22:28	15° II 00'06	20°10'59
inferior conj	11417 Jun 11 17:55	28° II 08'05	3°14'34	asc. node	11418 May 11 20:22	16° II 46'32	
minimum elong	11417 Jun 11 18:31	28° II 06'09	3°13'49	retrograde	11418 May 17 17:07	19° II 28'41	
min. Earth dist.	11417 Jun 13 04:34	26° II 15'36	0.66762 AU	evening set	11418 May 21 15:23	17° II 59'37	
morning rise	11417 Jun 17 05:02	21° II 46'04		inferior conj	11418 May 26 22:37	11° II 56'52	3°14'47
direct	11417 Jun 23 08:44	19° II 04'49		minimum elong	11418 May 26 22:07	11° II 58'34	3°14'06
desc. node	11417 Jun 27 13:54	20° II 07'11		min. Earth dist.	11418 May 27 18:58	10° II 47'36	0.67888 AU
morning max el	11417 Jul 05 23:33	26° II 37'42	25°59'25	morning rise	11418 Jun 01 04:32	5° II 37'04	
	11417 Jul 09 02:36	0° S		direct	11418 Jun 06 20:52	3° II 05'41	
	11417 Jul 30 11:57	0° Q		desc. node	11418 Jun 14 10:57	6° II 26'06	
morning set	11417 Aug 11 00:10	19° Q 52'57		morning max el	11418 Jun 18 09:22	10° II 00'25	24°35'46
max. Earth dist.	11417 Aug 14 19:16	27° Q 02'10	1.35334 AU		11418 Jul 04 05:25	0° S	
	11417 Aug 16 07:55	0° P			11418 Jul 23 04:03	0° Q	
				morning set	11418 Jul 24 03:49	1° Q 43'40	
superior conj	11417 Aug 20 08:11	8° P 00'10	-0°06'01	max. Earth dist.	11418 Jul 27 18:08	8° Q 08'36	1.37463 AU
minimum elong	11417 Aug 20 08:34	8° P 02'03	0°06'16				
behind sun begin	11417 Aug 20 02:55	7° P 33'25		superior conj	11418 Aug 03 16:07	21° Q 08'04	-0°38'55
behind sun end	11417 Aug 20 14:12	8° P 30'44		minimum elong	11418 Aug 03 18:42	21° Q 20'35	0°38'56
asc. node	11417 Aug 20 23:04	9° P 15'54		asc. node	11418 Aug 07 19:51	29° Q 18'32	
evening rise	11417 Aug 28 02:33	24° P 02'26			11418 Aug 08 04:11	0° P	
	11417 Aug 31 00:46	0° S		evening rise	11418 Aug 12 05:20	8° P 05'52	
evening max el	11417 Sep 15 09:17	24° S 07'31	20°25'31		11418 Aug 24 10:26	0° S	
desc. node	11417 Sep 23 11:26	29° S 13'18		evening max el	11418 Aug 28 23:21	5° S 31'26	19°19'04
retrograde	11417 Sep 26 09:58	29° S 36'05		retrograde	11418 Sep 07 07:25	10° S 10'18	
evening set	11417 Sep 28 11:41	29° S 25'20		evening set	11418 Sep 09 03:38	10° S 00'14	
inferior conj	11417 Oct 07 13:19	25° S 28'42	-4°08'07	desc. node	11418 Sep 10 08:49	9° S 43'06	
minimum elong	11417 Oct 07 03:27	25° S 43'06	4°04'54	inferior conj	11418 Sep 17 18:21	5° S 51'36	-2°18'16
min. Earth dist.	11417 Oct 08 21:19	24° S 42'00	0.54758 AU	minimum elong	11418 Sep 17 12:15	6° S 01'37	2°15'56
morning rise	11417 Oct 15 18:38	21° S 26'04		min. Earth dist.	11418 Sep 20 08:59	4° S 08'59	0.55790 AU
direct	11417 Oct 20 03:51	20° S 44'39		morning rise	11418 Sep 25 18:15	1° S 16'56	
morning max el	11417 Nov 02 13:33	27° S 15'48	23°40'39	direct	11418 Sep 30 23:24	0° S 14'56	
	11417 Nov 05 05:50	0° M		morning max el	11418 Oct 15 00:38	7° S 21'16	25°25'27
asc. node	11417 Nov 17 00:02	16° M 52'05			11418 Oct 31 15:31	0° M	
	11417 Nov 23 20:41	0° X		asc. node	11418 Nov 03 20:54	5° M 51'41	
morning set	11417 Nov 26 12:28	5° X 34'20		morning set	11418 Nov 11 00:01	20° M 17'58	
					11418 Nov 15 10:37	0° X	
superior conj	11417 Dec 03 09:44	20° X 29'54	1°38'50	superior conj	11418 Nov 17 19:25	5° X 14'03	1°38'07
minimum elong	11417 Dec 03 10:09	20° X 32'09	1°39'32	minimum elong	11418 Nov 17 18:44	5° X 10'14	1°38'43
max. Earth dist.	11417 Dec 06 01:30	26° X 12'06	1.33055 AU	max. Earth dist.	11418 Nov 19 05:18	8° X 20'36	1.32018 AU
	11417 Dec 07 20:50	0° Z		evening rise	11418 Nov 24 22:36	20° X 35'16	
evening rise	11417 Dec 11 00:45	6° Z 27'59			11418 Nov 29 15:35	0° Z	
desc. node	11417 Dec 20 09:22	23° Z 56'28		desc. node	11418 Dec 07 06:25	13° Z 43'08	
	11417 Dec 23 23:50	0° \approx			11418 Dec 18 02:23	0° \approx	
evening max el	11418 Jan 14 02:58	27° \approx 55'19	27°25'01				
	11418 Jan 16 10:19	0° X		evening max el	11418 Dec 27 13:19	10° \approx 50'17	27°29'51
retrograde	11418 Jan 27 18:12	5° X 19'42		retrograde	11419 Jan 10 09:44	18° \approx 09'04	
evening set	11418 Feb 03 14:31	2° X 48'41		evening set	11419 Jan 17 09:25	15° \approx 48'33	
	11418 Feb 06 19:24	30° K \approx		min. Earth dist.	11419 Jan 21 02:58	12° \approx 49'17	0.62323 AU
min. Earth dist.	11418 Feb 07 10:17	29° \approx 22'21	0.64261 AU	inferior conj	11419 Jan 24 01:07	10° \approx 04'07	-2°13'09
inferior conj	11418 Feb 09 22:44	26° \approx 42'42	-0°59'28	minimum elong	11419 Jan 24 05:36	9° \approx 53'30	2°10'46

asc. node	11419 Jan 30 20:08	5°≈05'08		minimum elong	11420 Jan 06 19:52	22°≈39'41	3°27'47
morning rise	11419 Jan 31 04:19	4°≈57'50		morning rise	11420 Jan 14 05:35	18°≈08'18	
direct	11419 Feb 02 10:06	4°≈35'08		direct	11420 Jan 16 08:15	17°≈51'02	
morning max el	11419 Feb 09 04:07	8°≈01'21	17°47'40	asc. node	11420 Jan 17 17:20	17°≈58'40	
	11419 Feb 23 14:29	0°≈		morning max el	11420 Jan 23 18:10	21°≈32'48	18°03'16
morning set	11419 Feb 25 00:59	2°≈32'37			11420 Jan 30 04:52	0°≈	
desc. node	11419 Mar 05 06:48	16°≈58'00		morning set	11420 Feb 08 08:46	16°≈12'37	
					11420 Feb 15 20:33	0°≈	
superior conj	11419 Mar 08 12:39	22°≈28'43	-0°24'35				
minimum elong	11419 Mar 08 10:15	22°≈18'39	0°24'03	superior conj	11420 Feb 18 07:26	4°≈23'27	0°14'13
	11419 Mar 13 01:28	0°≈		minimum elong	11420 Feb 18 08:35	4°≈28'35	0°14'23
max. Earth dist.	11419 Mar 15 09:42	3°≈48'25	1.43831 AU	behind sun begin	11420 Feb 18 05:10	4°≈13'25	
evening rise	11419 Mar 23 03:25	16°≈02'05		behind sun end	11420 Feb 18 12:00	4°≈43'43	
	11419 Apr 01 08:22	0°≈		desc. node	11420 Feb 20 03:30	7°≈37'27	
evening max el	11419 Apr 22 20:34	28°≈45'27	21°20'15	max. Earth dist.	11420 Feb 25 22:17	17°≈30'05	1.42035 AU
	11419 Apr 24 03:28	0°≈		evening rise	11420 Mar 02 07:21	26°≈17'24	
asc. node	11419 Apr 28 17:37	3°≈13'58			11420 Mar 04 15:25	0°≈	
retrograde	11419 May 01 15:36	3°≈54'47			11420 Mar 25 03:17	0°≈	
evening set	11419 May 06 00:06	2°≈09'48		evening max el	11420 Apr 04 13:52	12°≈31'53	22°37'59
	11419 May 08 04:09	30°≈		retrograde	11420 Apr 14 12:21	18°≈24'05	
inferior conj	11419 May 11 06:37	25°≈55'38	3°03'33	asc. node	11420 Apr 14 14:53	18°≈24'01	
minimum elong	11419 May 11 05:14	26°≈00'27	3°02'49	evening set	11420 Apr 19 07:57	16°≈23'56	
min. Earth dist.	11419 May 11 13:29	25°≈31'45	0.68546 AU	inferior conj	11420 Apr 24 15:52	10°≈00'44	2°42'03
morning rise	11419 May 16 10:09	19°≈40'21		minimum elong	11420 Apr 24 13:54	10°≈07'36	2°41'14
direct	11419 May 21 13:36	17°≈25'34		min. Earth dist.	11420 Apr 24 09:59	10°≈21'12	0.68738 AU
morning max el	11419 May 31 19:29	23°≈30'34	23°06'03	morning rise	11420 Apr 29 19:43	3°≈51'19	
desc. node	11419 Jun 01 07:54	24°≈02'16		direct	11420 May 04 09:47	1°≈57'03	
	11419 Jun 06 13:03	0°≈		morning max el	11420 May 13 09:06	7°≈09'50	21°39'09
	11419 Jun 27 14:25	0°≈		desc. node	11420 May 18 04:46	12°≈34'36	
morning set	11419 Jul 05 08:48	12°≈31'49			11420 May 30 22:56	0°≈	
max. Earth dist.	11419 Jul 09 15:24	19°≈46'10	1.39775 AU	morning set	11420 Jun 14 11:42	22°≈09'43	
	11419 Jul 15 10:23	0°≈			11420 Jun 19 08:18	0°≈	
				max. Earth dist.	11420 Jun 20 17:16	2°≈15'37	1.41986 AU
superior conj	11419 Jul 17 09:16	3°≈33'47	-1°12'40				
minimum elong	11419 Jul 17 14:19	3°≈57'02	1°12'32	superior conj	11420 Jun 28 07:02	15°≈06'11	-1°43'34
asc. node	11419 Jul 25 16:41	19°≈14'48		minimum elong	11420 Jun 28 13:40	15°≈35'05	1°43'34
evening rise	11419 Jul 26 24:00	21°≈44'58			11420 Jul 06 15:20	0°≈	
	11419 Jul 31 08:34	0°≈		evening rise	11420 Jul 09 06:42	4°≈49'29	
evening max el	11419 Aug 12 01:10	17°≈40'32	18°33'57	asc. node	11420 Jul 11 13:33	9°≈00'00	
retrograde	11419 Aug 19 23:10	21°≈38'54			11420 Jul 25 00:40	0°≈	
evening set	11419 Aug 21 23:32	21°≈24'18		evening max el	11420 Jul 25 10:40	0°≈25'20	18°09'23
desc. node	11419 Aug 28 06:10	18°≈06'56		retrograde	11420 Aug 01 09:43	3°≈57'40	
inferior conj	11419 Aug 29 19:52	16°≈55'57	-0°29'17	evening set	11420 Aug 03 17:21	3°≈34'36	
minimum elong	11419 Aug 29 18:42	16°≈58'10	0°29'03		11420 Aug 09 09:04	30°≈	
min. Earth dist.	11419 Sep 02 01:51	14°≈27'08	0.57550 AU	inferior conj	11420 Aug 10 18:55	28°≈45'30	0°59'45
morning rise	11419 Sep 06 10:26	11°≈43'55		minimum elong	11420 Aug 10 20:45	28°≈41'24	0°58'41
direct	11419 Sep 12 08:59	10°≈15'18		min. Earth dist.	11420 Aug 14 02:12	25°≈48'53	0.59726 AU
morning max el	11419 Sep 26 16:33	17°≈47'46	26°50'56	desc. node	11420 Aug 14 03:30	25°≈46'09	
	11419 Oct 06 20:32	0°≈		morning rise	11420 Aug 17 20:59	23°≈01'20	
asc. node	11419 Oct 21 17:43	25°≈16'42		direct	11420 Aug 24 07:42	21°≈04'00	
	11419 Oct 24 01:48	0°≈		morning max el	11420 Sep 07 15:56	28°≈55'17	27°43'26
morning set	11419 Oct 26 09:47	4°≈53'28			11420 Sep 08 17:35	0°≈	
					11420 Sep 29 18:06	0°≈	
superior conj	11419 Nov 02 06:57	20°≈00'27	1°31'32	asc. node	11420 Oct 07 14:28	14°≈59'25	
minimum elong	11419 Nov 02 05:23	19°≈51'39	1°31'54	morning set	11420 Oct 09 15:56	19°≈15'11	
max. Earth dist.	11419 Nov 02 13:36	20°≈37'27	1.31466 AU		11420 Oct 14 15:26	0°≈	
	11419 Nov 06 19:27	0°≈		max. Earth dist.	11420 Oct 15 22:39	2°≈52'46	1.31407 AU
evening rise	11419 Nov 09 02:59	4°≈58'29					
	11419 Nov 22 07:30	0°≈		superior conj	11420 Oct 16 18:26	4°≈42'42	1°19'22
desc. node	11419 Nov 24 03:31	2°≈58'42		minimum elong	11420 Oct 16 16:18	4°≈30'52	1°19'25
evening max el	11419 Dec 09 18:25	23°≈02'18	27°01'05	evening rise	11420 Oct 23 11:35	19°≈30'33	
	11419 Dec 21 10:40	0°≈			11420 Oct 28 13:13	0°≈	
retrograde	11419 Dec 23 16:31	0°≈12'43		desc. node	11420 Nov 10 00:42	21°≈30'08	
	11419 Dec 25 21:37	30°≈			11420 Nov 16 12:24	0°≈	
evening set	11419 Dec 30 12:54	28°≈11'27		evening max el	11420 Nov 20 15:35	4°≈21'35	25°58'30
min. Earth dist.	11420 Jan 03 08:51	25°≈30'57	0.60218 AU	retrograde	11420 Dec 04 13:20	11°≈24'11	
inferior conj	11420 Jan 06 12:43	22°≈54'28	-3°30'56	evening set	11420 Dec 10 20:34	9°≈50'29	

min. Earth dist.	11420 Dec 15 04:17	7° Z 14'55	0.58112 AU	inferior conj	11421 Nov 29 02:41	16° Z 23'17	-5°36'46
inferior conj	11420 Dec 18 05:57	5° Z 03'06	-4°44'09	minimum elong	11421 Nov 29 07:48	16° Z 15'14	5°35'32
minimum elong	11420 Dec 18 14:10	4° Z 48'21	4°41'24	morning rise	11421 Dec 07 13:19	12° Z 21'04	
morning rise	11420 Dec 26 10:22	0° Z 39'32		direct	11421 Dec 10 01:09	12° Z 04'23	
direct	11420 Dec 28 14:24	0° Z 24'22		morning max el	11421 Dec 19 21:15	16° Z 46'17	19°37'39
asc. node	11421 Jan 03 14:27	2° Z 28'51		asc. node	11421 Dec 21 11:32	18° Z 25'08	
morning max el	11421 Jan 06 01:10	4° Z 31'23	18°39'22		11421 Dec 29 12:04	0° Z	
	11421 Jan 21 23:19	0° \approx		morning set	11422 Jan 06 07:30	14° Z 54'33	
morning set	11421 Jan 22 04:13	0° \approx 23'45			11422 Jan 13 19:30	0° \approx	
superior conj	11421 Jan 30 22:48	17° \approx 15'42	0°46'16	superior conj	11422 Jan 14 05:52	0° \approx 51'06	1°10'30
minimum elong	11421 Jan 31 01:34	17° \approx 28'40	0°46'22	minimum elong	11422 Jan 14 08:47	1° \approx 05'26	1°10'47
desc. node	11421 Feb 06 00:13	28° \approx 17'46		max. Earth dist.	11422 Jan 20 12:09	12° \approx 48'52	1.37671 AU
	11421 Feb 06 23:27	0° X		desc. node	11422 Jan 23 20:59	18° \approx 55'01	
max. Earth dist.	11421 Feb 07 06:17	0° X 29'51	1.39896 AU	evening rise	11422 Jan 24 05:28	19° \approx 32'41	
evening rise	11421 Feb 11 07:56	7° X 27'57			11422 Jan 30 08:17	0° X	
	11421 Feb 25 16:00	0° Y			11422 Feb 19 19:16	0° Y	
evening max el	11421 Mar 18 04:09	26° Y 20'42	23°58'36	evening max el	11422 Feb 28 17:28	10° Y 11'09	25°15'30
	11421 Mar 22 07:57	0° Z		retrograde	11422 Mar 12 19:44	17° Y 11'40	
retrograde	11421 Mar 29 06:06	2° Z 51'51		evening set	11422 Mar 18 14:55	14° Y 47'14	
asc. node	11421 Apr 01 12:09	2° Z 02'49		asc. node	11422 Mar 19 09:28	14° Y 05'29	
evening set	11421 Apr 03 13:25	0° Z 38'11		min. Earth dist.	11422 Mar 23 00:31	9° Y 54'59	0.67797 AU
	11421 Apr 04 06:11	30° K Y		inferior conj	11422 Mar 24 06:37	8° Y 17'07	1°30'07
min. Earth dist.	11421 Apr 08 06:23	25° Y 10'53	0.68480 AU	minimum elong	11422 Mar 24 04:44	8° Y 23'17	1°29'25
inferior conj	11421 Apr 09 00:30	24° Y 09'17	2°10'53	morning rise	11422 Mar 29 18:55	2° Y 22'56	
minimum elong	11421 Apr 08 22:20	24° Y 16'41	2°10'02	direct	11422 Apr 02 07:51	1° Y 10'57	
morning rise	11421 Apr 14 07:17	18° Y 06'51		morning max el	11422 Apr 09 09:04	5° Y 03'28	19°18'32
direct	11421 Apr 18 08:19	16° Y 34'13		desc. node	11422 Apr 21 22:19	21° Y 31'18	
morning max el	11421 Apr 26 05:15	21° Y 01'15	20°21'55	greatest brilliancy	11422 Apr 22 04:34	21° Y 54'29	-0.7m
	11421 May 03 17:39	0° Z			11422 Apr 27 13:22	0° Z	
desc. node	11421 May 05 01:35	1° Z 48'07		morning set	11422 May 03 17:34	9° Z 28'25	
	11421 May 24 03:22	0° II		max. Earth dist.	11422 May 16 16:03	29° Z 36'27	1.45107 AU
morning set	11421 May 24 16:49	0° II 51'57			11422 May 16 22:02	0° II	
max. Earth dist.	11421 Jun 03 01:45	15° II 36'31	1.43829 AU	superior conj	11422 May 20 04:32	5° II 10'26	-2°13'08
superior conj	11421 Jun 09 05:30	25° II 37'35	-2°05'59	minimum elong	11422 May 20 03:36	5° II 06'45	2°13'45
minimum elong	11421 Jun 09 10:40	25° II 58'56	2°06'25	evening rise	11422 Jun 03 13:10	28° II 29'22	
	11421 Jun 11 20:37	0° S			11422 Jun 04 11:04	0° S	
evening rise	11421 Jun 21 20:44	17° S 08'09		asc. node	11422 Jun 15 07:27	17° S 36'25	
asc. node	11421 Jun 28 10:28	28° S 29'26		evening max el	11422 Jun 22 13:47	27° S 05'11	18°17'49
	11421 Jun 29 08:02	0° Q			11422 Jun 26 15:14	0° Q	
evening max el	11421 Jul 09 00:01	13° Q 36'41	18°04'19	retrograde	11422 Jun 28 22:52	0° Q 28'51	
retrograde	11421 Jul 15 11:08	16° Q 57'42			11422 Jul 01 05:59	30° R S	
evening set	11421 Jul 18 02:44	16° Q 23'02		evening set	11422 Jul 01 22:35	29° S 40'14	
inferior conj	11421 Jul 24 12:31	11° Q 14'57	2°03'56	inferior conj	11422 Jul 07 20:25	24° S 14'57	2°45'31
minimum elong	11421 Jul 24 15:12	11° Q 08'00	2°02'36	minimum elong	11422 Jul 07 22:41	24° S 08'27	2°44'23
min. Earth dist.	11421 Jul 27 11:42	8° Q 13'08	0.62002 AU	min. Earth dist.	11422 Jul 10 06:31	21° S 28'52	0.64126 AU
morning rise	11421 Jul 31 01:23	5° Q 09'09		morning rise	11422 Jul 13 21:24	17° S 57'40	
desc. node	11421 Aug 01 00:46	4° Q 30'37		desc. node	11422 Jul 18 22:01	15° S 28'31	
direct	11421 Aug 06 17:45	2° Q 46'56		direct	11422 Jul 20 12:57	15° S 19'31	
morning max el	11421 Aug 20 21:46	10° Q 48'49	27°57'16	morning max el	11422 Aug 03 07:17	23° S 20'48	27°34'14
	11421 Sep 04 22:47	0° P			11422 Aug 09 05:22	0° Q	
	11421 Sep 22 01:16	0° U			11422 Aug 29 06:28	0° P	
morning set	11421 Sep 23 16:28	3° U 18'19		morning set	11422 Sep 07 09:01	16° P 56'20	
asc. node	11421 Sep 24 11:12	4° U 54'35		asc. node	11422 Sep 11 07:55	24° P 57'15	
max. Earth dist.	11421 Sep 29 04:33	14° U 56'23	1.31853 AU	max. Earth dist.	11422 Sep 12 03:29	26° P 39'06	1.32811 AU
					11422 Sep 13 17:37	0° U	
superior conj	11421 Oct 01 04:03	19° U 15'58	1°01'48	superior conj	11422 Sep 15 09:50	3° U 34'38	0°39'05
minimum elong	11421 Oct 01 01:49	19° U 03'45	1°01'36	minimum elong	11422 Sep 15 08:04	3° U 25'13	0°38'45
	11421 Oct 06 01:03	0° M		evening rise	11422 Sep 22 09:48	18° U 41'27	
evening rise	11421 Oct 07 22:29	4° M 06'35			11422 Sep 27 21:48	0° M	
	11421 Oct 21 13:48	0° Z		evening max el	11422 Oct 14 15:23	24° M 59'08	22°48'33
desc. node	11421 Oct 27 21:56	9° Z 00'50		desc. node	11422 Oct 14 19:13	25° M 08'24	
evening max el	11421 Nov 02 04:47	14° Z 52'30	24°29'19		11422 Oct 21 11:36	0° Z	
retrograde	11421 Nov 15 22:34	21° Z 45'20		retrograde	11422 Oct 27 19:03	1° Z 31'37	
evening set	11421 Nov 21 04:25	20° Z 44'25		evening set	11422 Oct 31 14:26	1° Z 00'00	
min. Earth dist.	11421 Nov 26 16:06	17° Z 55'07	0.56273 AU				

	11422 Nov 03 10:12	30° κ μ		evening rise	11423 Sep 06 19:35	3° Ω 09'18	
min. Earth dist.	11422 Nov 07 23:57	27° μ 38'50	0.55010 AU		11423 Sep 21 19:40	0° μ	
inferior conj	11422 Nov 09 04:52	26° μ 57'31	-5°46'51	evening max el	11423 Sep 26 08:26	5° μ 16'33	21°13'03
minimum elong	11422 Nov 09 02:06	27° μ 01'28	5°46'08	desc. node	11423 Oct 01 16:34	9° μ 23'52	
morning rise	11422 Nov 17 15:21	23° μ 08'51		retrograde	11423 Oct 08 06:44	11° μ 11'59	
direct	11422 Nov 20 18:20	22° μ 46'14		evening set	11423 Oct 10 19:30	10° μ 57'04	
morning max el	11422 Dec 02 03:40	28° μ 10'07	20°58'37	inferior conj	11423 Oct 19 21:04	7° μ 02'10	-4°59'07
	11422 Dec 03 22:54	0° π		minimum elong	11423 Oct 19 11:42	7° μ 15'20	4°56'39
asc. node	11422 Dec 08 08:34	5° π 31'46		min. Earth dist.	11423 Oct 20 06:54	6° μ 48'20	0.54582 AU
morning set	11422 Dec 21 15:48	29° π 37'18		morning rise	11423 Oct 28 04:30	3° μ 11'05	
	11422 Dec 21 20:10	0° Σ		direct	11423 Nov 01 02:42	2° μ 37'57	
				morning max el	11423 Nov 13 21:15	8° μ 44'57	22°38'36
superior conj	11422 Dec 29 00:25	14° Σ 57'56	1°27'03	asc. node	11423 Nov 25 05:32	23° μ 32'15	
minimum elong	11422 Dec 29 02:36	15° Σ 09'12	1°27'33		11423 Nov 28 22:02	0° π	
max. Earth dist.	11423 Jan 02 21:13	24° Σ 45'22	1.35605 AU	morning set	11423 Dec 06 02:49	14° π 24'38	
	11423 Jan 05 14:29	0° \approx					
evening rise	11423 Jan 06 21:09	2° \approx 24'08		superior conj	11423 Dec 13 02:55	29° π 25'18	1°36'26
desc. node	11423 Jan 10 17:49	9° \approx 25'31		minimum elong	11423 Dec 13 04:00	29° π 31'08	1°37'06
	11423 Jan 23 08:28	0° χ			11423 Dec 13 09:26	0° Σ	
evening max el	11423 Feb 11 07:06	23° χ 59'43	26°21'20	max. Earth dist.	11423 Dec 16 13:27	6° Σ 39'15	1.33869 AU
	11423 Feb 19 05:41	0° Υ		evening rise	11423 Dec 21 03:08	15° Σ 51'33	
retrograde	11423 Feb 24 04:12	1° Υ 17'11		desc. node	11423 Dec 28 14:44	29° Σ 43'48	
	11423 Feb 28 16:29	30° κ χ			11423 Dec 28 18:26	0° \approx	
evening set	11423 Mar 02 10:44	28° χ 45'53			11424 Jan 17 22:03	0° χ	
asc. node	11423 Mar 06 06:46	24° χ 50'21		evening max el	11424 Jan 24 20:41	7° χ 36'38	27°08'47
min. Earth dist.	11423 Mar 06 14:12	24° χ 28'11	0.66715 AU	retrograde	11424 Feb 07 06:35	15° χ 00'11	
inferior conj	11423 Mar 08 08:14	22° χ 20'10	0°39'39	evening set	11424 Feb 13 22:51	12° χ 27'12	
minimum elong	11423 Mar 08 07:14	22° χ 23'14	0°39'24	min. Earth dist.	11424 Feb 17 21:09	8° χ 42'55	0.65258 AU
morning rise	11423 Mar 14 04:35	16° χ 36'03		inferior conj	11424 Feb 20 03:01	6° χ 12'18	-0°20'35
direct	11423 Mar 17 06:42	15° χ 42'14		minimum elong	11424 Feb 20 03:36	6° χ 10'39	0°19'59
morning max el	11423 Mar 23 19:52	19° χ 12'44	18°31'10	asc. node	11424 Feb 21 04:06	5° χ 02'51	
	11423 Apr 01 05:48	0° Υ		morning rise	11424 Feb 26 09:51	0° χ 40'44	
desc. node	11423 Apr 08 19:03	11° Υ 36'20		direct	11424 Feb 29 02:38	0° χ 01'52	
morning set	11423 Apr 13 12:35	19° Υ 03'32		morning max el	11424 Mar 06 11:31	3° χ 22'13	18°00'38
	11423 Apr 20 11:25	0° δ			11424 Mar 24 11:17	0° Υ	
				morning set	11424 Mar 24 12:19	0° Υ 04'17	
superior conj	11423 Apr 29 12:38	14° δ 10'05	-2°00'16	desc. node	11424 Mar 25 15:44	1° Υ 56'42	
minimum elong	11423 Apr 29 04:45	13° δ 39'16	2°00'14				
max. Earth dist.	11423 Apr 29 10:39	14° δ 02'20	1.45691 AU	superior conj	11424 Apr 07 22:51	23° Υ 22'08	-1°29'19
	11423 May 09 15:03	0° Π		minimum elong	11424 Apr 07 13:47	22° Υ 46'20	1°28'32
evening rise	11423 May 15 05:27	8° Π 50'47		max. Earth dist.	11424 Apr 11 06:58	28° Υ 37'35	1.45521 AU
greatest brilliancy	11423 May 24 00:13	22° Π 43'32	-0.8m		11424 Apr 12 04:00	0° δ	
	11423 May 28 18:18	0° Φ		evening rise	11424 Apr 24 01:18	18° δ 26'44	
asc. node	11423 Jun 02 04:30	6° Φ 13'30			11424 May 01 14:07	0° Π	
evening max el	11423 Jun 06 01:12	10° Φ 43'53	18°49'01	greatest brilliancy	11424 May 07 15:06	9° Π 05'20	-0.7m
retrograde	11423 Jun 12 17:05	14° Φ 23'27		asc. node	11424 May 19 01:38	24° Π 10'55	
evening set	11423 Jun 16 01:11	13° Φ 19'25		evening max el	11424 May 19 08:06	24° Π 27'21	19°36'47
inferior conj	11423 Jun 21 14:50	7° Φ 38'22	3°08'24	retrograde	11424 May 26 14:53	28° Π 35'03	
minimum elong	11423 Jun 21 16:05	7° Φ 34'28	3°07'33	evening set	11424 May 30 07:49	27° Π 15'00	
min. Earth dist.	11423 Jun 23 10:03	5° Φ 23'33	0.65925 AU	inferior conj	11424 Jun 04 16:33	21° Π 19'34	3°16'08
morning rise	11423 Jun 27 06:14	1° Φ 16'52		minimum elong	11424 Jun 04 16:39	21° Π 19'11	3°15'27
	11423 Jun 28 23:22	30° κ Π		min. Earth dist.	11424 Jun 05 20:56	19° Π 45'17	0.67300 AU
direct	11423 Jul 03 15:30	28° Π 33'48		morning rise	11424 Jun 10 01:08	14° Π 58'23	
desc. node	11423 Jul 05 19:12	28° Π 50'04		direct	11424 Jun 16 00:17	12° Π 20'36	
	11423 Jul 08 18:42	0° Φ		desc. node	11424 Jun 21 16:20	14° Π 13'02	
morning max el	11423 Jul 16 18:02	6° Φ 20'39	26°40'37	morning max el	11424 Jun 28 04:27	19° Π 38'16	25°25'17
	11423 Aug 03 23:17	0° Ω			11424 Jul 07 00:21	0° Φ	
morning set	11423 Aug 21 14:27	0° Π 00'54			11424 Jul 27 01:58	0° Ω	
	11423 Aug 21 14:16	0° Π		morning set	11424 Aug 03 04:56	12° Ω 22'34	
max. Earth dist.	11423 Aug 25 16:46	7° Π 58'21	1.34283 AU	max. Earth dist.	11424 Aug 06 20:21	19° Ω 05'06	1.36209 AU
asc. node	11423 Aug 29 04:39	15° Π 02'59			11424 Aug 12 11:53	0° Π	
superior conj	11423 Aug 30 09:27	17° Π 31'56	0°11'40	superior conj	11424 Aug 13 00:08	1° Π 00'50	-0°19'40
minimum elong	11423 Aug 30 08:50	17° Π 28'44	0°11'20	minimum elong	11424 Aug 13 01:22	1° Π 07'00	0°19'50
behind sun begin	11423 Aug 30 04:42	17° Π 07'13		asc. node	11424 Aug 15 01:25	5° Π 08'15	
behind sun end	11423 Aug 30 12:59	17° Π 50'17		evening rise	11424 Aug 21 01:43	17° Π 24'28	
	11423 Sep 05 07:35	0° Ω			11424 Aug 27 11:47	0° Ω	

































































































































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retrograde	11424 Sep 17 21:27	21°♌20'26		retrograde	11425 Aug 30 02:28	2°♌17'29	
desc. node	11424 Sep 17 13:56	21°♌20'10		evening set	11425 Aug 31 23:31	2°♌06'07	
evening set	11424 Sep 19 19:14	21°♌10'40		desc. node	11425 Sep 04 11:19	0°♌50'47	
inferior conj	11424 Sep 28 17:37	17°♌09'52	-3°23'18		11425 Sep 06 00:03	30°♌	
minimum elong	11424 Sep 28 08:52	17°♌23'12	3°20'08	inferior conj	11425 Sep 09 06:51	27°♌49'27	-1°30'27
min. Earth dist.	11424 Sep 30 16:03	15°♌59'11	0.55096 AU	minimum elong	11425 Sep 09 02:59	27°♌56'15	1°29'00
morning rise	11424 Oct 06 21:05	12°♌55'27		min. Earth dist.	11425 Sep 12 05:50	25°♌45'22	0.56465 AU
direct	11424 Oct 11 14:50	12°♌06'23		morning rise	11425 Sep 17 03:14	22°♌58'25	
morning max el	11424 Oct 25 08:27	18°♌52'43	24°26'31	direct	11425 Sep 22 15:58	21°♌45'53	
	11424 Nov 03 14:46	0°♌		morning max el	11425 Oct 06 21:15	29°♌04'48	26°05'09
asc. node	11424 Nov 11 02:27	12°♌13'37			11425 Oct 07 19:43	0°♌	
morning set	11424 Nov 19 14:41	29°♌11'24			11425 Oct 28 05:32	0°♌	
	11424 Nov 19 23:45	0°♌		asc. node	11425 Oct 28 23:17	1°♌25'01	
				morning set	11425 Nov 04 01:41	13°♌52'29	
superior conj	11424 Nov 26 10:39	14°♌05'31	1°39'16				
minimum elong	11424 Nov 26 10:35	14°♌05'07	1°39'56	superior conj	11425 Nov 10 21:22	28°♌51'38	1°36'01
max. Earth dist.	11424 Nov 28 13:31	18°♌41'53	1.32560 AU	minimum elong	11425 Nov 10 20:16	28°♌45'31	1°36'32
evening rise	11424 Dec 03 20:03	29°♌46'25			11425 Nov 11 09:42	0°♌	
	11424 Dec 03 22:44	0°♌		max. Earth dist.	11425 Nov 11 19:32	0°♌54'27	1.31720 AU
desc. node	11424 Dec 14 11:42	19°♌44'08		evening rise	11425 Nov 17 20:57	14°♌01'14	
	11424 Dec 20 19:56	0°♌			11425 Nov 26 00:03	0°♌	
evening max el	11425 Jan 06 08:39	20°♌49'54	27°30'50	desc. node	11425 Dec 01 08:46	9°♌19'04	
retrograde	11425 Jan 20 02:13	28°♌12'04			11425 Dec 16 07:51	0°♌	
evening set	11425 Jan 27 00:51	25°♌44'17		evening max el	11425 Dec 19 16:53	3°♌27'31	27°21'47
min. Earth dist.	11425 Jan 30 19:17	22°♌30'29	0.63471 AU	retrograde	11426 Jan 02 14:26	10°♌43'41	
inferior conj	11425 Feb 02 12:14	19°♌46'57	-1°29'56	evening set	11426 Jan 09 13:44	8°♌29'55	
minimum elong	11425 Feb 02 15:09	19°♌39'35	1°28'12	min. Earth dist.	11426 Jan 13 07:19	5°♌40'12	0.61436 AU
asc. node	11425 Feb 07 01:25	15°♌44'07		inferior conj	11426 Jan 16 08:46	2°♌56'28	-2°46'03
morning rise	11425 Feb 09 07:39	14°♌30'50		minimum elong	11426 Jan 16 14:27	2°♌43'46	2°43'15
direct	11425 Feb 11 16:49	14°♌03'18			11426 Jan 19 21:58	30°♌	
morning max el	11425 Feb 18 05:12	17°♌24'18	17°47'20	morning rise	11426 Jan 23 17:54	27°♌58'47	
	11425 Feb 27 07:57	0°♌		asc. node	11426 Jan 24 22:40	27°♌42'55	
morning set	11425 Mar 06 14:39	12°♌21'39		direct	11426 Jan 25 21:51	27°♌38'54	
desc. node	11425 Mar 12 12:23	22°♌27'30			11426 Jan 31 14:17	0°♌	
	11425 Mar 17 00:32	0°♌		morning max el	11426 Feb 01 21:41	1°♌10'34	17°51'59
				morning set	11426 Feb 17 13:28	25°♌37'09	
superior conj	11425 Mar 19 03:14	3°♌28'38	-0°48'41	desc. node	11426 Feb 19 23:40	0°♌	
minimum elong	11425 Mar 18 22:08	3°♌07'44	0°47'55		11426 Feb 27 09:02	13°♌05'08	
max. Earth dist.	11425 Mar 25 01:38	13°♌03'05	1.44627 AU				
evening rise	11425 Apr 03 12:36	27°♌49'16		superior conj	11426 Feb 28 08:21	14°♌45'44	-0°07'29
	11425 Apr 04 22:45	0°♌		minimum elong	11426 Feb 28 07:42	14°♌42'55	0°07'08
	11425 Apr 25 12:25	0°♌		behind sun begin	11426 Feb 28 00:05	14°♌10'09	
evening max el	11425 May 02 09:16	8°♌11'37	20°39'06	behind sun end	11426 Feb 28 15:18	15°♌15'37	
asc. node	11425 May 05 22:51	11°♌15'29		max. Earth dist.	11426 Mar 07 16:24	27°♌03'24	1.43113 AU
retrograde	11425 May 10 13:44	12°♌57'14			11426 Mar 09 11:54	0°♌	
evening set	11425 May 14 16:17	11°♌21'10		evening rise	11426 Mar 14 07:02	7°♌37'52	
inferior conj	11425 May 19 22:53	5°♌13'04	3°11'21		11426 Mar 29 03:56	0°♌	
minimum elong	11425 May 19 21:59	5°♌16'11	3°10'39	evening max el	11426 Apr 15 05:02	21°♌57'13	21°52'35
min. Earth dist.	11425 May 20 13:19	4°♌23'20	0.68217 AU	asc. node	11426 Apr 22 20:07	27°♌12'25	
	11425 May 24 01:04	30°♌		retrograde	11426 Apr 24 11:48	27°♌25'34	
morning rise	11425 May 25 03:27	28°♌54'59		evening set	11426 Apr 29 00:49	25°♌34'05	
direct	11425 May 30 14:17	26°♌30'17		inferior conj	11426 May 04 07:40	19°♌15'32	2°55'40
	11425 Jun 07 05:42	0°♌		minimum elong	11426 May 04 06:00	19°♌21'23	2°54'54
desc. node	11425 Jun 08 13:20	1°♌07'51		min. Earth dist.	11426 May 04 09:03	19°♌10'44	0.68675 AU
morning max el	11425 Jun 10 14:17	3°♌05'03	23°57'56	morning rise	11426 May 09 10:59	13°♌02'22	
	11425 Jul 01 03:20	0°♌		direct	11426 May 14 08:40	10°♌56'01	
morning set	11425 Jul 15 23:34	23°♌48'36		morning max el	11426 May 24 01:32	16°♌39'19	22°28'18
max. Earth dist.	11425 Jul 19 17:58	0°♌22'39	1.38438 AU	desc. node	11426 May 26 10:15	19°♌10'24	
	11425 Jul 19 12:51	0°♌			11426 Jun 04 00:49	0°♌	
					11426 Jun 24 04:18	0°♌	
superior conj	11425 Jul 27 02:15	13°♌51'57	-0°53'18	morning set	11426 Jun 26 17:38	4°♌07'33	
minimum elong	11425 Jul 27 05:54	14°♌09'14	0°53'14	max. Earth dist.	11426 Jul 01 16:08	12°♌19'09	1.40739 AU
asc. node	11425 Aug 01 22:10	25°♌08'46					
	11425 Aug 04 09:24	0°♌		superior conj	11426 Jul 09 11:41	25°♌56'13	-1°26'25
evening rise	11425 Aug 05 01:28	1°♌19'01		minimum elong	11426 Jul 09 17:37	26°♌22'54	1°26'17
evening max el	11425 Aug 21 09:49	27°♌56'55	18°57'13		11426 Jul 11 17:32	0°♌	

evening rise	11426 Jul 19 15:33	14° Ω 44'44		superior conj	11427 Jun 20 23:54	7° \mathfrak{G} 03'29	-1°54'31
asc. node	11426 Jul 19 18:59	15° Ω 00'55		minimum elong	11427 Jun 21 06:26	7° \mathfrak{G} 31'17	1°54'40
	11426 Jul 28 01:33	0° \mathfrak{M}		evening rise	11427 Jul 02 15:43	27° \mathfrak{G} 30'48	
evening max el	11426 Aug 04 15:25	10° \mathfrak{M} 22'49	18°21'05		11427 Jul 04 01:01	0° Ω	
retrograde	11426 Aug 12 02:20	14° \mathfrak{M} 08'09		asc. node	11427 Jul 06 15:53	4° Ω 40'07	
evening set	11426 Aug 14 05:32	13° \mathfrak{M} 50'29		evening max el	11427 Jul 19 03:05	23° Ω 20'41	18°05'00
inferior conj	11426 Aug 21 17:44	9° \mathfrak{M} 13'36	0°11'26	retrograde	11427 Jul 25 19:36	26° Ω 46'03	
minimum elong	11426 Aug 21 18:07	9° \mathfrak{M} 12'47	0°10'58	evening set	11427 Jul 28 06:43	26° Ω 18'17	
transit middle	11426 Aug 21 18:07	9° \mathfrak{M} 12'47	0°10'58	inferior conj	11427 Aug 04 01:07	21° Ω 21'02	1°29'57
transit begin	11426 Aug 21 15:33	9° \mathfrak{M} 18'04		minimum elong	11427 Aug 04 03:32	21° Ω 15'17	1°28'40
transit end	11426 Aug 21 20:42	9° \mathfrak{M} 07'28		min. Earth dist.	11427 Aug 07 05:55	18° Ω 19'29	0.60700 AU
desc. node	11426 Aug 22 08:40	8° \mathfrak{M} 42'44		desc. node	11427 Aug 09 05:58	16° Ω 37'36	
min. Earth dist.	11426 Aug 25 01:55	6° \mathfrak{M} 29'58	0.58445 AU	morning rise	11427 Aug 10 21:33	15° Ω 26'42	
morning rise	11426 Aug 29 03:11	3° \mathfrak{M} 46'37		direct	11427 Aug 17 11:45	13° Ω 17'47	
direct	11426 Sep 04 07:47	2° \mathfrak{M} 05'18		morning max el	11427 Aug 31 18:22	21° Ω 14'14	27°54'03
morning max el	11426 Sep 18 16:17	9° \mathfrak{M} 47'31	27°17'41		11427 Sep 08 09:14	0° \mathfrak{M}	
	11426 Oct 04 04:47	0° $\underline{\Omega}$			11427 Sep 27 05:21	0° $\underline{\Omega}$	
asc. node	11426 Oct 15 20:02	20° $\underline{\Omega}$ 58'19		asc. node	11427 Oct 02 16:45	10° $\underline{\Omega}$ 47'14	
morning set	11426 Oct 19 10:07	28° $\underline{\Omega}$ 22'52		morning set	11427 Oct 03 14:09	12° $\underline{\Omega}$ 37'50	
	11426 Oct 20 04:21	0° \mathfrak{M}		max. Earth dist.	11427 Oct 09 12:34	25° $\underline{\Omega}$ 23'13	1.31535 AU
superior conj	11426 Oct 26 09:07	13° \mathfrak{M} 37'22	1°27'02	superior conj	11427 Oct 10 20:04	28° $\underline{\Omega}$ 17'16	1°12'34
minimum elong	11426 Oct 26 07:15	13° \mathfrak{M} 27'00	1°27'17	minimum elong	11427 Oct 10 17:50	28° $\underline{\Omega}$ 04'55	1°12'31
max. Earth dist.	11426 Oct 26 04:24	13° \mathfrak{M} 11'05	1.31376 AU		11427 Oct 11 14:35	0° \mathfrak{M}	
evening rise	11426 Nov 02 03:22	28° \mathfrak{M} 29'09		evening rise	11427 Oct 17 13:14	13° \mathfrak{M} 04'30	
	11426 Nov 02 20:29	0° \mathfrak{X}			11427 Oct 25 23:06	0° \mathfrak{X}	
desc. node	11426 Nov 18 05:55	28° \mathfrak{X} 17'51		desc. node	11427 Nov 05 03:08	16° \mathfrak{X} 26'28	
	11426 Nov 19 08:50	0° \mathfrak{Z}		evening max el	11427 Nov 13 12:42	26° \mathfrak{X} 17'01	25°23'13
evening max el	11426 Dec 01 18:51	15° \mathfrak{Z} 18'04	26°38'26		11427 Nov 18 01:58	0° \mathfrak{Z}	
retrograde	11426 Dec 15 17:33	22° \mathfrak{Z} 25'42		retrograde	11427 Nov 27 09:26	3° \mathfrak{Z} 15'15	
evening set	11426 Dec 22 09:25	20° \mathfrak{Z} 35'23		evening set	11427 Dec 03 07:20	1° \mathfrak{Z} 55'35	
min. Earth dist.	11426 Dec 26 08:53	17° \mathfrak{Z} 58'44	0.59301 AU		11427 Dec 06 21:36	30° \mathfrak{R} 2'	
inferior conj	11426 Dec 29 12:59	15° \mathfrak{Z} 30'41	-4°03'21	min. Earth dist.	11427 Dec 08 00:53	29° \mathfrak{X} 16'25	0.57284 AU
minimum elong	11426 Dec 29 20:55	15° \mathfrak{Z} 15'12	4°00'12	inferior conj	11427 Dec 10 21:43	27° \mathfrak{X} 20'17	-5°10'12
morning rise	11427 Jan 06 11:13	10° \mathfrak{Z} 53'54		minimum elong	11427 Dec 11 05:16	27° \mathfrak{X} 07'29	5°08'01
direct	11427 Jan 08 13:35	10° \mathfrak{Z} 38'04		morning rise	11427 Dec 19 05:32	23° \mathfrak{X} 05'48	
asc. node	11427 Jan 11 19:51	11° \mathfrak{Z} 18'16		direct	11427 Dec 21 12:04	22° \mathfrak{X} 50'23	
morning max el	11427 Jan 16 09:15	14° \mathfrak{Z} 29'51	18°15'59	asc. node	11427 Dec 29 16:56	26° \mathfrak{X} 27'12	
	11427 Jan 26 23:43	0° \approx		morning max el	11427 Dec 30 12:02	27° \mathfrak{X} 11'21	19°01'15
morning set	11427 Feb 01 02:47	9° \approx 32'12		morning set	11428 Jan 02 01:35	0° \mathfrak{Z}	
superior conj	11427 Feb 10 12:28	27° \approx 06'40	0°28'43		11428 Jan 16 02:02	23° \mathfrak{Z} 53'31	
minimum elong	11427 Feb 10 14:32	27° \approx 16'02	0°28'50		11428 Jan 19 04:09	0° \approx	
	11427 Feb 12 02:54	0° \mathfrak{X}		superior conj	11428 Jan 24 11:07	10° \approx 19'01	0°57'29
desc. node	11427 Feb 14 05:42	3° \mathfrak{X} 45'24		minimum elong	11428 Jan 24 14:05	10° \approx 33'14	0°57'39
max. Earth dist.	11427 Feb 18 02:30	10° \mathfrak{X} 26'28	1.41151 AU	max. Earth dist.	11428 Jan 31 09:25	23° \approx 09'09	1.38956 AU
evening rise	11427 Feb 22 19:27	18° \mathfrak{X} 16'35		desc. node	11428 Feb 01 02:27	24° \approx 24'59	
	11427 Mar 02 05:07	0° \mathfrak{Y}		evening rise	11428 Feb 04 05:16	29° \approx 51'26	
	11427 Mar 23 16:35	0° \mathfrak{B}			11428 Feb 04 07:16	0° \mathfrak{X}	
evening max el	11427 Mar 28 20:51	5° \mathfrak{B} 44'48	23°12'22		11428 Feb 23 13:53	0° \mathfrak{Y}	
retrograde	11427 Apr 08 07:23	11° \mathfrak{B} 54'30		evening max el	11428 Mar 10 10:43	19° \mathfrak{Y} 35'13	24°32'10
asc. node	11427 Apr 09 17:25	11° \mathfrak{B} 44'59		retrograde	11428 Mar 21 23:21	26° \mathfrak{Y} 19'22	
evening set	11427 Apr 13 07:49	9° \mathfrak{B} 48'37		asc. node	11428 Mar 26 14:43	24° \mathfrak{Y} 42'12	
min. Earth dist.	11427 Apr 18 05:51	4° \mathfrak{B} 00'45	0.68682 AU	evening set	11428 Mar 27 11:46	24° \mathfrak{Y} 00'53	
inferior conj	11427 Apr 18 16:53	3° \mathfrak{B} 22'37	2°30'02	min. Earth dist.	11428 Apr 01 01:30	18° \mathfrak{Y} 48'34	0.68249 AU
minimum elong	11427 Apr 18 14:46	3° \mathfrak{B} 29'55	2°29'10	inferior conj	11428 Apr 02 00:41	17° \mathfrak{Y} 31'08	1°54'46
	11427 Apr 21 06:01	30° \mathfrak{R} 9'		minimum elong	11428 Apr 01 22:34	17° \mathfrak{Y} 38'14	1°53'57
morning rise	11427 Apr 23 21:38	27° \mathfrak{Y} 15'47		morning rise	11428 Apr 07 09:30	11° \mathfrak{Y} 32'02	
direct	11427 Apr 28 06:07	25° \mathfrak{Y} 30'30		direct	11428 Apr 11 05:22	10° \mathfrak{Y} 08'13	
	11427 May 06 08:10	0° \mathfrak{B}		morning max el	11428 Apr 18 16:45	14° \mathfrak{Y} 18'33	19°53'02
morning max el	11427 May 06 17:28	0° \mathfrak{B} 22'49	21°04'44	desc. node	11428 Apr 29 03:51	27° \mathfrak{Y} 28'41	
desc. node	11427 May 13 07:04	8° \mathfrak{B} 01'39			11428 Apr 30 22:01	0° \mathfrak{B}	
	11427 May 28 18:05	0° \mathfrak{I}		morning set	11428 May 15 10:16	21° \mathfrak{B} 48'32	
morning set	11427 Jun 06 09:55	13° \mathfrak{I} 17'22			11428 May 20 17:09	0° \mathfrak{I}	
max. Earth dist.	11427 Jun 13 20:17	25° \mathfrak{I} 09'33	1.42828 AU	max. Earth dist.	11428 May 26 07:52	8° \mathfrak{I} 50'15	1.44456 AU
	11427 Jun 16 18:59	0° \mathfrak{G}		superior conj	11428 May 31 11:59	17° \mathfrak{I} 08'17	-2°11'16

minimum elong	11428 May 31 15:05	17° Π 20'51	2°11'51	superior conj	11429 May 11 03:00	26° \mathcal{B} 22'20	-2°10'12
	11428 Jun 08 07:13	0° \mathfrak{D}		minimum elong	11429 May 10 22:46	26° \mathcal{B} 05'41	2°10'37
evening rise	11428 Jun 13 21:03	9° \mathfrak{D} 25'46			11429 May 13 10:15	0° Π	
asc. node	11428 Jun 22 12:50	24° \mathfrak{D} 00'39		evening rise	11429 May 26 03:22	20° Π 21'51	
	11428 Jun 26 09:21	0° Ω			11429 Jun 01 01:54	0° \mathfrak{D}	
evening max el	11428 Jul 01 17:00	6° Ω 40'09	18°07'53	asc. node	11429 Jun 09 09:52	12° \mathfrak{D} 56'12	
retrograde	11428 Jul 08 01:58	10° Ω 00'32		evening max el	11429 Jun 15 06:02	20° \mathfrak{D} 13'33	18°28'56
evening set	11428 Jul 10 21:06	9° Ω 19'59		retrograde	11429 Jun 21 17:02	23° \mathfrak{D} 42'44	
inferior conj	11428 Jul 17 01:17	4° Ω 04'08	2°24'08	evening set	11429 Jun 24 20:14	22° \mathfrak{D} 47'41	
minimum elong	11428 Jul 17 03:54	3° Ω 57'02	2°22'51	inferior conj	11429 Jun 30 14:08	17° \mathfrak{D} 15'15	2°57'16
min. Earth dist.	11428 Jul 19 19:10	1° Ω 07'04	0.62933 AU	minimum elong	11429 Jun 30 16:00	17° \mathfrak{D} 09'40	2°56'16
	11428 Jul 20 21:53	30° $\mathcal{R}\mathfrak{D}$		min. Earth dist.	11429 Jul 02 17:53	14° \mathfrak{D} 41'05	0.64931 AU
morning rise	11428 Jul 23 08:52	27° \mathfrak{D} 52'35		morning rise	11429 Jul 06 10:42	10° \mathfrak{D} 55'15	
desc. node	11428 Jul 26 03:16	26° \mathfrak{D} 13'38		direct	11429 Jul 12 23:56	8° \mathfrak{D} 13'57	
direct	11428 Jul 30 01:36	25° \mathfrak{D} 22'38		desc. node	11429 Jul 13 00:30	8° \mathfrak{D} 13'57	
	11428 Aug 09 08:09	0° Ω		morning max el	11429 Jul 26 12:41	16° \mathfrak{D} 11'09	27°14'49
morning max el	11428 Aug 13 02:04	3° Ω 24'56	27°51'52		11429 Aug 06 22:16	0° Ω	
	11428 Sep 01 21:44	0° \mathfrak{M}			11429 Aug 25 17:02	0° \mathfrak{M}	
morning set	11428 Sep 16 11:37	26° \mathfrak{M} 31'01		morning set	11429 Aug 30 23:52	9° \mathfrak{M} 55'45	
	11428 Sep 18 04:34	0° \mathfrak{L}		max. Earth dist.	11429 Sep 04 11:27	18° \mathfrak{M} 53'09	1.33376 AU
asc. node	11428 Sep 18 13:27	0° \mathfrak{L} 45'58		asc. node	11429 Sep 05 10:11	20° \mathfrak{M} 50'16	
max. Earth dist.	11428 Sep 21 16:11	7° \mathfrak{L} 20'00	1.32200 AU				
				superior conj	11429 Sep 08 07:45	26° \mathfrak{M} 54'52	0°28'01
superior conj	11428 Sep 24 04:18	12° \mathfrak{L} 44'57	0°52'48	minimum elong	11429 Sep 08 06:23	26° \mathfrak{M} 47'40	0°27'38
minimum elong	11428 Sep 24 02:12	12° \mathfrak{L} 33'30	0°52'31		11429 Sep 09 18:31	0° \mathfrak{L}	
evening rise	11428 Oct 01 00:33	27° \mathfrak{L} 40'55		evening rise	11429 Sep 15 11:28	12° \mathfrak{L} 13'11	
	11428 Oct 02 02:37	0° \mathfrak{M}			11429 Sep 24 11:49	0° \mathfrak{M}	
	11428 Oct 19 05:31	0° \mathfrak{J}		evening max el	11429 Oct 06 11:48	16° \mathfrak{M} 39'06	22°06'21
desc. node	11428 Oct 22 00:24	3° \mathfrak{J} 25'04		desc. node	11429 Oct 08 21:44	18° \mathfrak{M} 48'24	
evening max el	11428 Oct 24 23:50	6° \mathfrak{J} 33'33	23°46'49	retrograde	11429 Oct 19 04:58	22° \mathfrak{M} 58'37	
retrograde	11428 Nov 07 12:48	13° \mathfrak{J} 19'05		evening set	11429 Oct 22 09:54	22° \mathfrak{M} 35'44	
evening set	11428 Nov 12 04:55	12° \mathfrak{J} 31'29		min. Earth dist.	11429 Oct 30 17:07	18° \mathfrak{M} 56'02	0.54714 AU
min. Earth dist.	11428 Nov 18 10:10	9° \mathfrak{J} 30'57	0.55656 AU	inferior conj	11429 Oct 31 06:19	18° \mathfrak{M} 37'31	-5°33'47
inferior conj	11428 Nov 20 09:56	8° \mathfrak{J} 19'39	-5°47'29	minimum elong	11429 Oct 31 00:05	18° \mathfrak{M} 46'16	5°32'30
minimum elong	11428 Nov 20 12:07	8° \mathfrak{J} 16'23	5°46'45	morning rise	11429 Nov 08 15:40	14° \mathfrak{M} 50'29	
morning rise	11428 Nov 28 21:13	4° \mathfrak{J} 24'50		direct	11429 Nov 12 02:19	14° \mathfrak{M} 24'11	
direct	11428 Dec 01 14:58	4° \mathfrak{J} 06'04		morning max el	11429 Nov 24 03:02	20° \mathfrak{M} 06'19	21°39'21
morning max el	11428 Dec 12 02:25	9° \mathfrak{J} 04'37	20°09'23	asc. node	11429 Dec 02 10:59	0° \mathfrak{J} 26'03	
asc. node	11428 Dec 15 13:59	12° \mathfrak{J} 55'07			11429 Dec 02 04:07	0° \mathfrak{J}	
	11428 Dec 26 01:27	0° \mathfrak{Z}		morning set	11429 Dec 14 17:27	23° \mathfrak{J} 15'41	
morning set	11428 Dec 30 07:47	8° \mathfrak{Z} 30'31			11429 Dec 17 22:01	0° \mathfrak{Z}	
				superior conj	11429 Dec 21 21:52	8° \mathfrak{Z} 25'55	1°31'52
superior conj	11429 Jan 06 23:34	24° \mathfrak{Z} 09'15	1°18'26	minimum elong	11429 Dec 21 23:37	8° \mathfrak{Z} 35'03	1°32'27
minimum elong	11429 Jan 07 02:15	24° \mathfrak{Z} 22'41	1°18'48	max. Earth dist.	11429 Dec 26 03:59	17° \mathfrak{Z} 09'48	1.34815 AU
	11429 Jan 09 22:22	0° \approx		evening rise	11429 Dec 30 09:06	25° \mathfrak{Z} 24'23	
max. Earth dist.	11429 Jan 12 16:25	5° \approx 17'41	1.36767 AU		11430 Jan 01 19:57	0° \approx	
evening rise	11429 Jan 16 10:57	12° \approx 16'57		desc. node	11430 Jan 04 20:08	5° \approx 25'33	
desc. node	11429 Jan 17 23:16	14° \approx 59'50			11430 Jan 20 08:34	0° \mathfrak{H}	
	11429 Jan 26 21:04	0° \mathfrak{H}		evening max el	11430 Feb 03 13:34	17° \mathfrak{H} 09'41	26°44'08
	11429 Feb 17 17:19	0° \mathfrak{Y}		retrograde	11430 Feb 16 16:56	24° \mathfrak{H} 31'43	
evening max el	11429 Feb 21 00:06	3° \mathfrak{Y} 25'43	25°45'11	evening set	11430 Feb 23 03:57	21° \mathfrak{H} 58'39	
retrograde	11429 Mar 05 10:47	10° \mathfrak{Y} 34'29		min. Earth dist.	11430 Feb 27 04:57	17° \mathfrak{H} 55'35	0.66136 AU
evening set	11429 Mar 11 11:06	8° \mathfrak{Y} 06'22		asc. node	11430 Feb 28 09:23	16° \mathfrak{H} 32'13	
asc. node	11429 Mar 13 12:02	6° \mathfrak{Y} 08'13		inferior conj	11430 Mar 01 04:11	15° \mathfrak{H} 36'33	0°15'15
min. Earth dist.	11429 Mar 15 17:55	3° \mathfrak{Y} 29'13	0.67391 AU	minimum elong	11430 Mar 01 03:45	15° \mathfrak{H} 37'47	0°15'20
inferior conj	11429 Mar 17 05:10	1° \mathfrak{Y} 37'35	1°09'55	transit middle	11430 Mar 01 03:45	15° \mathfrak{H} 37'47	0°15'20
minimum elong	11429 Mar 17 03:34	1° \mathfrak{Y} 42'39	1°09'22	transit begin	11430 Mar 01 02:54	15° \mathfrak{H} 40'20	
	11429 Mar 18 12:26	30° $\mathcal{R}\mathfrak{H}$		transit end	11430 Mar 01 04:37	15° \mathfrak{H} 35'15	
morning rise	11429 Mar 22 20:37	25° \mathfrak{H} 47'42		morning rise	11430 Mar 07 04:44	9° \mathfrak{H} 57'43	
direct	11429 Mar 26 04:48	24° \mathfrak{H} 43'49		direct	11430 Mar 10 02:36	9° \mathfrak{H} 10'52	
morning max el	11429 Apr 01 23:52	28° \mathfrak{H} 25'05	18°56'24	morning max el	11430 Mar 16 13:08	12° \mathfrak{H} 35'47	18°16'07
	11429 Apr 03 12:07	0° \mathfrak{Y}			11430 Mar 29 03:21	0° \mathfrak{Y}	
greatest brilliancy	11429 Apr 15 15:22	16° \mathfrak{Y} 46'59	-0.8m	desc. node	11430 Apr 02 21:17	7° \mathfrak{Y} 34'06	
desc. node	11429 Apr 16 00:36	17° \mathfrak{Y} 22'05		morning set	11430 Apr 04 23:25	10° \mathfrak{Y} 54'58	
	11429 Apr 24 05:09	0° \mathcal{B}			11430 Apr 16 23:46	0° \mathcal{B}	
morning set	11429 Apr 24 16:36	0° \mathcal{B} 44'25					
max. Earth dist.	11429 May 09 00:49	23° \mathcal{B} 05'20	1.45445 AU				

superior conj	11430 Apr 20 09:44	5°♄21'24	-1°48'58	morning max el	11431 Feb 28 06:02	26°♁43'28	17°52'45
minimum elong	11430 Apr 20 00:29	4°♄45'12	1°48'32		11431 Mar 03 03:18	0°♄	
max. Earth dist.	11430 Apr 21 20:09	7°♄35'57	1.45707 AU	morning set	11431 Mar 17 11:09	22°♄30'33	
evening rise	11430 May 06 10:01	0°♄20'50		desc. node	11431 Mar 20 17:57	27°♄59'27	
	11430 May 06 04:41	0°♄			11431 Mar 21 22:59	0°♄	
greatest brilliancy	11430 May 17 10:10	17°♄25'51	-0.8m				
	11430 May 26 05:42	0°♄		superior conj	11431 Mar 31 02:16	14°♄53'15	-1°12'41
asc. node	11430 May 27 07:00	1°♄17'45		minimum elong	11431 Mar 30 18:33	14°♄22'21	1°11'49
evening max el	11430 May 29 15:39	3°♄54'16	19°07'21	max. Earth dist.	11431 Apr 04 15:36	22°♄07'24	1.45228 AU
retrograde	11430 Jun 05 13:10	7°♄44'48			11431 Apr 09 16:27	0°♄	
evening set	11430 Jun 09 00:50	6°♄34'11		evening rise	11431 Apr 16 00:20	9°♄45'59	
inferior conj	11430 Jun 14 12:01	0°♄46'51	3°13'19		11431 Apr 29 10:07	0°♄	
minimum elong	11430 Jun 14 12:47	0°♄44'22	3°12'34	greatest brilliancy	11431 Apr 30 23:34	2°♄16'52	-0.6m
	11430 Jun 15 02:31	30°♄		evening max el	11431 May 12 20:14	17°♄38'26	20°01'40
min. Earth dist.	11430 Jun 16 00:55	28°♄48'11	0.66563 AU	asc. node	11431 May 14 04:10	18°♄54'23	
morning rise	11430 Jun 20 00:09	24°♄24'44		retrograde	11431 May 20 11:34	22°♄01'09	
direct	11430 Jun 26 05:24	21°♄42'37		evening set	11431 May 24 08:27	20°♄34'26	
desc. node	11430 Jun 29 21:39	22°♄30'07		inferior conj	11431 May 29 15:59	14°♄33'38	3°15'28
morning max el	11430 Jul 08 23:29	29°♄19'48	26°10'35	minimum elong	11431 May 29 15:39	14°♄34'46	3°14'48
	11430 Jul 09 15:07	0°♄		min. Earth dist.	11431 May 30 14:25	13°♄17'44	0.67755 AU
	11430 Jul 31 18:41	0°♄		morning rise	11431 Jun 03 22:31	8°♄13'26	
morning set	11430 Aug 13 23:28	22°♄43'11		direct	11431 Jun 09 16:43	5°♄40'05	
	11430 Aug 17 19:27	0°♄		desc. node	11431 Jun 16 18:43	8°♄35'09	
max. Earth dist.	11430 Aug 17 20:06	0°♄03'07	1.35046 AU	morning max el	11431 Jun 21 09:20	12°♄41'01	24°48'48
					11431 Jul 05 08:11	0°♄	
superior conj	11430 Aug 23 03:54	10°♄40'27	-0°01'14		11431 Jul 24 13:15	0°♄	
minimum elong	11430 Aug 23 03:59	10°♄40'53	0°01'32	morning set	11431 Jul 27 06:03	4°♄42'12	
behind sun begin	11430 Aug 22 22:01	10°♄10'22		max. Earth dist.	11431 Jul 30 19:57	11°♄08'27	1.37133 AU
behind sun end	11430 Aug 23 09:58	11°♄11'27					
asc. node	11430 Aug 23 06:57	10°♄56'02		superior conj	11431 Aug 06 13:42	23°♄54'09	-0°33'48
evening rise	11430 Aug 30 19:57	26°♄35'43		minimum elong	11431 Aug 06 15:55	24°♄04'58	0°33'52
	11430 Sep 01 11:38	0°♄			11431 Aug 09 15:48	0°♄	
evening max el	11430 Sep 18 09:54	27°♄10'48	20°37'17	asc. node	11431 Aug 10 03:42	0°♄59'26	
	11430 Sep 21 17:38	0°♄		evening rise	11431 Aug 14 23:41	10°♄42'23	
desc. node	11430 Sep 25 19:05	2°♄07'15			11431 Aug 25 09:48	0°♄	
retrograde	11430 Sep 29 16:28	2°♄46'34		evening max el	11431 Aug 31 21:56	8°♄27'29	19°27'32
evening set	11430 Oct 01 20:27	2°♄35'04		retrograde	11431 Sep 10 11:40	13°♄13'19	
	11430 Oct 08 13:28	30°♄		evening set	11431 Sep 12 07:59	13°♄03'28	
inferior conj	11430 Oct 10 22:34	28°♄39'31	-4°22'49	desc. node	11431 Sep 12 16:28	12°♄59'25	
minimum elong	11430 Oct 10 12:35	28°♄53'54	4°19'43	inferior conj	11431 Sep 21 00:59	8°♄57'12	-2°35'31
min. Earth dist.	11430 Oct 12 01:06	28°♄01'15	0.54676 AU	minimum elong	11431 Sep 20 18:07	9°♄08'14	2°32'53
morning rise	11430 Oct 19 04:25	24°♄40'26		min. Earth dist.	11431 Sep 23 11:55	7°♄22'39	0.55584 AU
direct	11430 Oct 23 10:47	24°♄01'20		morning rise	11431 Sep 29 01:55	4°♄28'13	
	11430 Nov 05 05:27	0°♄		direct	11431 Oct 04 04:18	3°♄29'44	
morning max el	11430 Nov 05 17:00	0°♄26'43	23°24'29	morning max el	11431 Oct 18 03:44	10°♄31'01	25°10'45
asc. node	11430 Nov 19 07:55	18°♄45'25			11431 Nov 01 20:57	0°♄	
	11430 Nov 25 07:48	0°♄		asc. node	11431 Nov 06 04:46	7°♄40'18	
morning set	11430 Nov 29 05:03	8°♄03'34		morning set	11431 Nov 13 16:43	22°♄47'57	
					11431 Nov 17 00:11	0°♄	
superior conj	11430 Dec 06 02:55	23°♄00'11	1°38'25				
minimum elong	11430 Dec 06 03:31	23°♄03'23	1°39'05	superior conj	11431 Nov 20 12:08	7°♄43'12	1°38'36
max. Earth dist.	11430 Dec 08 23:25	29°♄05'56	1.33250 AU	minimum elong	11431 Nov 20 11:36	7°♄40'16	1°39'13
	11430 Dec 09 09:41	0°♄		max. Earth dist.	11431 Nov 22 02:20	11°♄12'56	1.32141 AU
evening rise	11430 Dec 13 20:10	9°♄05'06		evening rise	11431 Nov 27 16:47	23°♄09'13	
desc. node	11430 Dec 22 17:03	25°♄37'18			11431 Dec 01 02:29	0°♄	
	11430 Dec 25 06:46	0°♄		desc. node	11431 Dec 09 14:03	15°♄27'45	
	11431 Jan 16 10:49	0°♄			11431 Dec 19 00:42	0°♄	
evening max el	11431 Jan 17 02:42	0°♄38'34	27°21'41	evening max el	11431 Dec 30 13:36	13°♄38'50	27°31'11
retrograde	11431 Jan 30 16:49	8°♄02'59		retrograde	11432 Jan 13 09:19	20°♄58'19	
evening set	11431 Feb 06 12:08	5°♄31'18		evening set	11432 Jan 20 08:56	18°♄35'45	
min. Earth dist.	11431 Feb 10 08:32	2°♄00'18	0.64531 AU	min. Earth dist.	11432 Jan 24 02:40	15°♄32'53	0.62630 AU
	11431 Feb 12 05:29	30°♄		inferior conj	11432 Jan 26 23:31	12°♄47'48	-2°01'34
inferior conj	11431 Feb 12 19:17	29°♄22'40	-0°48'56	minimum elong	11432 Jan 27 03:35	12°♄38'01	1°59'21
minimum elong	11431 Feb 12 20:46	29°♄18'40	0°47'53	asc. node	11432 Feb 02 03:56	7°♄59'46	
asc. node	11431 Feb 15 06:41	26°♄50'09		morning rise	11432 Feb 03 00:40	7°♄38'46	
morning rise	11431 Feb 19 07:15	23°♄57'12		direct	11432 Feb 05 07:18	7°♄14'52	
direct	11431 Feb 21 20:25	23°♄23'43		morning max el	11432 Feb 11 23:31	10°♄39'20	17°46'57

	11432 Feb 24 23:06	0°♄	morning max el	11433 Jan 25 14:17	24°♄14'33	17°59'45
morning set	11432 Feb 27 23:00	5°♄15'09		11433 Jan 30 06:23	0°♄	
desc. node	11432 Mar 06 14:34	18°♄33'22	morning set	11433 Feb 10 04:36	18°♄49'04	
				11433 Feb 16 06:58	0°♄	
superior conj	11432 Mar 10 16:54	25°♄28'48 -0°30'51				
minimum elong	11432 Mar 10 13:49	25°♄15'57 0°30'15	superior conj	11433 Feb 20 08:13	7°♄14'00	0°08'43
	11432 Mar 13 10:23	0°♄	minimum elong	11433 Feb 20 08:58	7°♄17'17	0°08'56
max. Earth dist.	11432 Mar 17 09:00	6°♄24'25 1.44060 AU	behind sun begin	11433 Feb 20 02:18	6°♄47'55	
evening rise	11432 Mar 25 12:55	19°♄15'34	behind sun end	11433 Feb 20 15:38	7°♄46'34	
	11432 Apr 01 14:20	0°♄	desc. node	11433 Feb 21 11:13	9°♄12'13	
	11432 Apr 23 11:16	0°♄	max. Earth dist.	11433 Feb 27 22:19	20°♄11'46	1.42326 AU
evening max el	11432 Apr 24 19:07	1°♄23'38 21°09'17	evening rise	11433 Mar 05 14:04	29°♄23'08	
asc. node	11432 Apr 30 01:23	5°♄32'14		11433 Mar 05 23:20	0°♄	
retrograde	11432 May 03 10:11	6°♄26'33		11433 Mar 26 04:34	0°♄	
evening set	11432 May 07 17:09	4°♄43'46	evening max el	11433 Apr 07 12:56	15°♄09'32	22°26'04
	11432 May 11 21:49	30°♄	asc. node	11433 Apr 16 22:38	20°♄55'05	
inferior conj	11432 May 12 23:37	28°♄31'09 3°05'56	retrograde	11433 Apr 17 07:18	20°♄55'43	
minimum elong	11432 May 12 22:21	28°♄35'32 3°05'13	evening set	11433 Apr 22 01:13	18°♄57'39	
min. Earth dist.	11432 May 13 08:24	28°♄00'38 0.68476 AU	inferior conj	11433 Apr 27 08:47	12°♄35'30	2°46'00
morning rise	11432 May 18 03:20	22°♄15'11	minimum elong	11433 Apr 27 06:53	12°♄42'08	2°45'10
direct	11432 May 23 08:44	19°♄57'44	min. Earth dist.	11433 Apr 27 04:44	12°♄49'38	0.68735 AU
desc. node	11432 Jun 02 15:41	26°♄01'19	morning rise	11433 May 02 12:25	6°♄25'06	
morning max el	11432 Jun 02 19:18	26°♄10'23 23°19'29	direct	11433 May 07 04:25	4°♄27'46	
	11432 Jun 06 07:36	0°♄	morning max el	11433 May 16 08:14	9°♄48'20	21°51'38
	11432 Jun 27 21:08	0°♄	desc. node	11433 May 20 12:33	14°♄26'14	
morning set	11432 Jul 07 14:43	15°♄40'44		11433 Jun 01 03:09	0°♄	
max. Earth dist.	11432 Jul 11 17:19	22°♄41'15 1.39432 AU	morning set	11433 Jun 17 21:30	25°♄28'59	
	11432 Jul 15 20:35	0°♄		11433 Jun 20 16:42	0°♄	
			max. Earth dist.	11433 Jun 23 18:11	5°♄02'10	1.41672 AU
superior conj	11432 Jul 19 09:19	6°♄27'04 -1°07'38				
minimum elong	11432 Jul 19 14:01	6°♄48'51 1°07'30	superior conj	11433 Jul 01 10:12	18°♄07'39	-1°39'17
asc. node	11432 Jul 27 00:30	20°♄57'07	minimum elong	11433 Jul 01 16:44	18°♄36'21	1°39'14
evening rise	11432 Jul 28 19:48	24°♄26'08		11433 Jul 08 01:11	0°♄	
	11432 Jul 31 17:29	0°♄	evening rise	11433 Jul 12 04:31	7°♄36'22	
evening max el	11432 Aug 13 22:11	20°♄30'16 18°39'15	asc. node	11433 Jul 13 21:20	10°♄44'13	
retrograde	11432 Aug 22 00:40	24°♄34'02		11433 Jul 25 12:26	0°♄	
evening set	11432 Aug 24 00:02	24°♄20'23	evening max el	11433 Jul 28 06:46	3°♄10'19	18°11'47
desc. node	11432 Aug 29 13:50	21°♄38'48	retrograde	11433 Aug 04 08:37	6°♄45'42	
inferior conj	11432 Aug 31 23:15	19°♄54'57 -0°44'46	evening set	11433 Aug 06 15:02	6°♄24'10	
minimum elong	11432 Aug 31 21:26	19°♄58'21 0°44'14	inferior conj	11433 Aug 13 19:16	1°♄38'11	0°47'51
min. Earth dist.	11432 Sep 04 03:50	17°♄32'06 0.57256 AU	minimum elong	11433 Aug 13 20:48	1°♄34'50	0°46'53
morning rise	11432 Sep 08 15:26	14°♄48'17		11433 Aug 15 15:44	30°♄	
direct	11432 Sep 14 11:34	13°♄24'01	desc. node	11433 Aug 16 11:12	29°♄17'48	
morning max el	11432 Sep 28 18:45	20°♄52'57 26°40'04	min. Earth dist.	11433 Aug 17 03:06	28°♄44'11	0.59389 AU
	11432 Oct 06 16:37	0°♄	morning rise	11433 Aug 20 23:16	25°♄58'00	
asc. node	11432 Oct 23 01:34	27°♄01'42	direct	11433 Aug 27 08:32	24°♄04'45	
	11432 Oct 24 13:19	0°♄		11433 Sep 08 16:07	0°♄	
morning set	11432 Oct 28 02:50	7°♄24'36	morning max el	11433 Sep 10 17:08	1°♄54'08	27°37'57
				11433 Oct 01 01:29	0°♄	
superior conj	11432 Nov 03 23:29	22°♄29'10 1°32'53	asc. node	11433 Oct 09 22:18	16°♄42'01	
minimum elong	11432 Nov 03 22:02	22°♄21'01 1°33'18	morning set	11433 Oct 12 09:37	21°♄48'41	
max. Earth dist.	11432 Nov 04 10:09	23°♄28'32 1.31517 AU		11433 Oct 16 04:57	0°♄	
	11432 Nov 07 08:54	0°♄				
evening rise	11432 Nov 10 20:18	7°♄29'53	superior conj	11433 Oct 19 11:06	7°♄12'23	1°21'33
	11432 Nov 22 13:36	0°♄	minimum elong	11433 Oct 19 09:01	7°♄00'52	1°21'41
desc. node	11432 Nov 25 11:09	4°♄48'20	max. Earth dist.	11433 Oct 18 19:16	5°♄44'22	1.31382 AU
evening max el	11432 Dec 11 19:32	25°♄57'07 27°07'32	evening rise	11433 Oct 26 04:25	22°♄00'53	
	11432 Dec 16 19:17	0°♄		11433 Oct 30 00:11	0°♄	
retrograde	11432 Dec 25 17:26	3°♄08'57	desc. node	11433 Nov 12 08:21	23°♄27'30	
evening set	11433 Jan 01 14:56	1°♄04'06		11433 Nov 17 02:22	0°♄	
	11433 Jan 03 06:23	30°♄	evening max el	11433 Nov 23 17:55	7°♄24'14	26°09'48
min. Earth dist.	11433 Jan 05 09:59	28°♄21'44 0.60534 AU	retrograde	11433 Dec 07 16:04	14°♄28'28	
inferior conj	11433 Jan 08 13:29	25°♄42'51 -3°19'11	evening set	11433 Dec 14 01:54	12°♄50'10	
minimum elong	11433 Jan 08 20:17	25°♄28'30 3°16'07	min. Earth dist.	11433 Dec 18 06:58	10°♄14'55	0.58409 AU
morning rise	11433 Jan 16 04:24	20°♄53'41	inferior conj	11433 Dec 21 09:40	7°♄58'18	-4°34'00
direct	11433 Jan 18 07:19	20°♄35'50	minimum elong	11433 Dec 21 17:56	7°♄43'09	4°31'06
asc. node	11433 Jan 19 01:09	20°♄38'05	morning rise	11433 Dec 29 12:39	3°♄31'27	

direct	11433 Dec 31 16:00	3°  16'16		morning max el	11434 Dec 22 20:37	19°  41'06	19°27'31
asc. node	11434 Jan 05 22:17	4°  54'11		asc. node	11434 Dec 23 19:23	20°  38'23	
morning max el	11434 Jan 08 22:39	7°  19'03	18°32'41		11434 Dec 30 16:56	0° 	
	11434 Jan 23 09:55	0° 		morning set	11435 Jan 09 01:00	17°  24'57	
morning set	11434 Jan 24 22:38	2°  56'31			11435 Jan 15 07:35	0° 	
superior conj	11434 Feb 02 20:53	19°  58'54	0°41'52	superior conj	11435 Jan 17 01:56	3°  28'31	1°07'19
minimum elong	11434 Feb 02 23:32	20°  11'08	0°41'58	minimum elong	11435 Jan 17 04:54	3°  42'58	1°07'33
desc. node	11434 Feb 08 07:56	29°  52'41		max. Earth dist.	11435 Jan 23 12:35	15°  41'18	1.37999 AU
	11434 Feb 08 09:35	0° 		desc. node	11435 Jan 26 04:42	20°  30'28	
max. Earth dist.	11434 Feb 10 06:44	3°  17'26	1.40222 AU	evening rise	11435 Jan 27 06:09	22°  22'53	
evening rise	11434 Feb 14 11:32	10°  25'41			11435 Jan 31 16:55	0° 	
	11434 Feb 26 21:27	0° 			11435 Feb 20 18:24	0° 	
evening max el	11434 Mar 21 03:32	28°  58'03	23°46'38	evening max el	11435 Mar 03 17:00	12°  48'38	25°04'33
	11434 Mar 22 05:06	0° 		retrograde	11435 Mar 15 15:58	19°  45'18	
retrograde	11434 Apr 01 01:40	5°  24'10		evening set	11435 Mar 21 09:21	17°  22'26	
asc. node	11434 Apr 03 19:56	4°  48'34		asc. node	11435 Mar 21 17:17	17°  05'09	
evening set	11434 Apr 06 07:09	3°  12'26		min. Earth dist.	11435 Mar 25 20:01	12°  24'54	0.67928 AU
	11434 Apr 09 06:51	30°  49'00		inferior conj	11435 Mar 27 00:18	10°  52'14	1°36'57
min. Earth dist.	11434 Apr 11 01:21	27°  39'44	0.68547 AU	minimum elong	11435 Mar 26 22:20	10°  58'42	1°36'13
inferior conj	11434 Apr 11 17:39	26°  44'03	2°16'17	morning rise	11435 Apr 01 11:36	4°  56'36	
minimum elong	11434 Apr 11 15:29	26°  51'28	2°15'25	direct	11435 Apr 05 02:18	3°  41'34	
morning rise	11434 Apr 16 23:49	20°  40'21		morning max el	11435 Apr 12 05:55	7°  38'20	19°26'58
direct	11434 Apr 21 02:44	19°  04'29		desc. node	11435 Apr 24 06:07	23°  13'24	
morning max el	11434 Apr 29 03:16	23°  37'54	20°32'34	greatest brilliancy	11435 Apr 24 23:04	24°  15'47	-0.7m
	11434 May 04 16:08	0° 			11435 Apr 28 19:14	0° 	
desc. node	11434 May 07 09:22	3°  34'19		morning set	11435 May 07 04:59	12°  34'54	
	11434 May 25 10:23	0° 			11435 May 18 06:00	0° 	
morning set	11434 May 28 05:03	4°  16'56		max. Earth dist.	11435 May 19 14:54	2°  09'33	1.44963 AU
max. Earth dist.	11434 Jun 06 01:19	18°  14'25	1.43589 AU				
superior conj	11434 Jun 12 12:16	28°  14'09	-2°03'24	superior conj	11435 May 23 14:36	8°  12'05	-2°13'16
minimum elong	11434 Jun 12 17:57	29°  11'48	2°03'47	minimum elong	11435 May 23 14:49	8°  12'57	2°13'55
	11434 Jun 13 05:31	0° 			11435 Jun 05 19:05	0° 	
evening rise	11434 Jun 24 21:20	20°  02'13		evening rise	11435 Jun 06 17:17	1°  32'26	
asc. node	11434 Jun 30 18:16	0°  16'11		asc. node	11435 Jun 17 15:16	19°  02'08	
	11434 Jun 30 14:29	0° 		evening max el	11435 Jun 25 09:46	29°  44'53	18°14'41
evening max el	11434 Jul 11 19:48	16°  18'11	18°03'55		11435 Jun 25 15:58	0° 	
retrograde	11434 Jul 18 08:02	19°  39'51		retrograde	11435 Jul 01 18:27	3°  07'07	
evening set	11434 Jul 20 22:26	19°  07'06		evening set	11435 Jul 04 17:01	2°  20'36	
inferior conj	11434 Jul 27 10:21	14°  01'51	1°55'44		11435 Jul 07 19:46	30°  49'00	
minimum elong	11434 Jul 27 13:01	13°  55'07	1°54'23	inferior conj	11435 Jul 10 16:23	26°  57'47	2°40'27
min. Earth dist.	11434 Jul 30 11:13	10°  59'18	0.61670 AU	minimum elong	11435 Jul 10 18:46	26°  51'04	2°39'18
morning rise	11434 Aug 03 01:09	7°  58'39		min. Earth dist.	11435 Jul 13 04:37	24°  08'19	0.63828 AU
desc. node	11434 Aug 03 08:31	7°  46'10		morning rise	11435 Jul 16 19:01	20°  41'50	
direct	11434 Aug 09 17:13	5°  39'29		desc. node	11435 Jul 21 05:46	18°  02'12	
morning max el	11434 Aug 23 22:02	13°  40'31	27°57'36	direct	11435 Jul 23 11:07	18°  05'26	
	11434 Sep 06 00:36	0° 		morning max el	11435 Aug 06 07:07	26°  07'11	27°39'50
	11434 Sep 23 12:39	0° 			11435 Aug 09 21:18	0° 	
morning set	11434 Sep 26 11:10	5°  54'57			11435 Aug 30 14:32	0° 	
asc. node	11434 Sep 26 19:02	6°  35'29		morning set	11435 Sep 10 05:06	19°  17'18	
max. Earth dist.	11434 Oct 02 01:49	17°  49'58	1.31751 AU	asc. node	11435 Sep 13 15:46	26°  17'20	
				max. Earth dist.	11435 Sep 15 02:06	29°  16'43	1.32635 AU
					11435 Sep 15 06:31	0° 	
superior conj	11434 Oct 03 21:08	21°  47'31	1°04'48	superior conj	11435 Sep 18 03:40	6°  09'01	0°42'53
minimum elong	11434 Oct 03 18:54	21°  35'10	1°04'39	minimum elong	11435 Sep 18 01:48	5°  58'58	0°42'32
	11434 Oct 07 14:21	0° 		evening rise	11435 Sep 25 02:31	21°  12'26	
evening rise	11434 Oct 10 15:06	6°  18'36			11435 Sep 29 07:54	0° 	
	11434 Oct 22 17:08	0° 		desc. node	11435 Oct 17 02:56	27°  13'30	
desc. node	11434 Oct 30 05:37	11°  08'53		evening max el	11435 Oct 17 18:48	28°  10'17	23°03'37
evening max el	11434 Nov 05 08:14	18°  01'50	24°43'51		11435 Oct 19 19:25	0° 	
retrograde	11434 Nov 19 03:12	24°  56'25		retrograde	11435 Oct 31 01:16	4°  57'46	
evening set	11434 Nov 24 13:28	23°  50'45		evening set	11435 Nov 04 02:06	4°  57'11	
min. Earth dist.	11434 Nov 29 19:53	21°  04'34	0.56514 AU	min. Earth dist.	11435 Nov 11 04:01	0° 	
inferior conj	11434 Dec 02 09:32	19°  26'07	-5°31'07	inferior conj	11435 Nov 12 14:09	0°  06'34	-5°48'53
minimum elong	11434 Dec 02 15:28	19°  16'36	5°29'36	minimum elong	11435 Nov 12 12:43	0°  08'38	5°48'15
morning rise	11434 Dec 10 19:39	15°  20'49			11435 Nov 12 18:41	30°  49'00	
direct	11434 Dec 13 05:49	15°  20'43					

morning rise	11435 Nov 21 00:57	26° \mathbb{M} 16'40		inferior conj	11436 Oct 22 06:56	10° \mathbb{M} 13'15	-5°09'58
direct	11435 Nov 24 01:27	25° \mathbb{M} 55'07		minimum elong	11436 Oct 21 22:10	10° \mathbb{M} 25'33	5°07'49
	11435 Dec 03 20:36	0° \mathbb{X}		min. Earth dist.	11436 Oct 22 10:43	10° \mathbb{M} 07'58	0.54588 AU
morning max el	11435 Dec 05 05:05	1° \mathbb{X} 12'21	20°45'09	morning rise	11436 Oct 30 14:54	6° \mathbb{M} 24'03	
asc. node	11435 Dec 10 16:25	7° \mathbb{X} 35'12		direct	11436 Nov 03 10:08	5° \mathbb{M} 52'51	
	11435 Dec 23 08:10	0° \mathbb{Z}		morning max el	11436 Nov 16 00:17	11° \mathbb{M} 53'13	22°22'52
morning set	11435 Dec 24 08:42	2° \mathbb{Z} 06'10		asc. node	11436 Nov 26 13:22	25° \mathbb{M} 28'01	
					11436 Nov 29 05:28	0° \mathbb{X}	
superior conj	11435 Dec 31 19:00	17° \mathbb{Z} 30'54	1°25'00	morning set	11436 Dec 07 19:25	16° \mathbb{X} 52'58	
minimum elong	11435 Dec 31 21:20	17° \mathbb{Z} 42'50	1°25'28		11436 Dec 13 22:45	0° \mathbb{Z}	
max. Earth dist.	11436 Jan 05 21:03	27° \mathbb{Z} 40'17	1.35900 AU				
	11436 Jan 07 02:01	0° \approx		superior conj	11436 Dec 14 20:29	1° \mathbb{Z} 55'31	1°35'27
evening rise	11436 Jan 09 19:20	5° \approx 07'30		minimum elong	11436 Dec 14 21:45	2° \mathbb{Z} 02'14	1°36'05
desc. node	11436 Jan 13 01:32	11° \approx 01'56		max. Earth dist.	11436 Dec 18 12:06	9° \mathbb{Z} 33'24	1.34101 AU
	11436 Jan 24 13:47	0° \mathbb{H}		evening rise	11436 Dec 22 23:23	18° \mathbb{Z} 29'41	
evening max el	11436 Feb 14 06:39	26° \mathbb{H} 37'43	26°12'31		11436 Dec 29 03:50	0° \approx	
	11436 Feb 18 02:36	0° \mathbb{Y}		desc. node	11436 Dec 29 22:27	1° \approx 22'14	
retrograde	11436 Feb 27 01:10	3° \mathbb{Y} 53'00			11437 Jan 17 18:22	0° \mathbb{H}	
evening set	11436 Mar 04 06:07	1° \mathbb{Y} 22'26		evening max el	11437 Jan 26 20:12	10° \mathbb{H} 16'35	27°03'11
	11436 Mar 05 18:12	30° \mathbb{R} \mathbb{H}		retrograde	11437 Feb 09 04:28	17° \mathbb{H} 39'56	
asc. node	11436 Mar 07 14:37	27° \mathbb{H} 58'52		evening set	11437 Feb 15 19:33	15° \mathbb{H} 06'39	
min. Earth dist.	11436 Mar 08 10:29	26° \mathbb{H} 59'43	0.66904 AU	min. Earth dist.	11437 Feb 19 18:29	11° \mathbb{H} 17'42	0.65496 AU
inferior conj	11436 Mar 10 02:43	24° \mathbb{H} 55'49	0°47'55	inferior conj	11437 Feb 21 22:41	8° \mathbb{H} 49'46	-0°10'50
minimum elong	11436 Mar 10 01:32	24° \mathbb{H} 59'28	0°47'36	minimum elong	11437 Feb 21 22:59	8° \mathbb{H} 48'54	0°10'23
morning rise	11436 Mar 15 21:43	19° \mathbb{H} 10'07		transit middle	11437 Feb 21 22:59	8° \mathbb{H} 48'54	0°10'23
direct	11436 Mar 19 01:24	18° \mathbb{H} 13'42		transit begin	11437 Feb 21 20:42	8° \mathbb{H} 55'23	
morning max el	11436 Mar 25 15:47	21° \mathbb{H} 46'30	18°37'10	transit end	11437 Feb 22 01:15	8° \mathbb{H} 42'26	
	11436 Apr 01 07:52	0° \mathbb{Y}		asc. node	11437 Feb 22 11:56	8° \mathbb{H} 12'18	
desc. node	11436 Apr 10 02:48	13° \mathbb{Y} 15'05		morning rise	11437 Feb 28 03:49	3° \mathbb{H} 16'19	
morning set	11436 Apr 15 20:15	22° \mathbb{Y} 13'21		direct	11437 Mar 02 21:53	2° \mathbb{H} 35'29	
	11436 Apr 20 19:14	0° \mathbb{B}		morning max el	11437 Mar 09 06:54	5° \mathbb{H} 56'31	18°04'08
					11437 Mar 25 19:10	0° \mathbb{Y}	
superior conj	11436 May 01 23:57	17° \mathbb{B} 30'43	-2°03'32	morning set	11437 Mar 27 15:36	3° \mathbb{Y} 01'10	
minimum elong	11436 May 01 16:52	17° \mathbb{B} 02'58	2°03'36	desc. node	11437 Mar 27 23:28	3° \mathbb{Y} 33'15	
max. Earth dist.	11436 May 01 09:23	16° \mathbb{B} 33'45	1.45652 AU				
	11436 May 09 22:53	0° \mathbb{I}		superior conj	11437 Apr 11 08:40	26° \mathbb{Y} 37'47	-1°34'51
evening rise	11436 May 17 13:09	12° \mathbb{I} 02'28		minimum elong	11437 Apr 10 23:21	26° \mathbb{Y} 01'06	1°34'09
greatest brilliancy	11436 May 25 10:40	24° \mathbb{I} 36'16	-0.9m		11437 Apr 13 12:07	0° \mathbb{B}	
	11436 May 28 21:45	0° \mathbb{G}		max. Earth dist.	11437 Apr 14 05:39	1° \mathbb{B} 08'43	1.45591 AU
asc. node	11436 Jun 03 12:20	8° \mathbb{G} 09'20		evening rise	11437 Apr 27 11:30	21° \mathbb{B} 43'33	
evening max el	11436 Jun 07 21:41	13° \mathbb{G} 22'23	18°43'16		11437 May 02 20:19	0° \mathbb{I}	
retrograde	11436 Jun 14 11:59	16° \mathbb{G} 58'45		greatest brilliancy	11437 May 10 10:27	11° \mathbb{I} 31'20	-0.7m
evening set	11436 Jun 17 18:50	15° \mathbb{G} 57'00		asc. node	11437 May 21 09:29	26° \mathbb{I} 13'30	
inferior conj	11436 Jun 23 09:27	10° \mathbb{G} 18'05	3°05'56	evening max el	11437 May 22 05:19	27° \mathbb{I} 05'07	19°28'37
minimum elong	11436 Jun 23 10:52	10° \mathbb{G} 13'41	3°05'03		11437 May 25 18:50	0° \mathbb{G}	
min. Earth dist.	11436 Jun 25 06:52	7° \mathbb{G} 58'01	0.65681 AU	retrograde	11437 May 29 09:28	1° \mathbb{G} 08'08	
morning rise	11436 Jun 29 02:08	3° \mathbb{G} 56'52			11437 Jun 01 19:29	30° \mathbb{R} \mathbb{I}	
direct	11436 Jul 05 12:34	1° \mathbb{G} 14'03		evening set	11437 Jun 02 01:01	29° \mathbb{I} 50'30	
desc. node	11436 Jul 07 02:58	1° \mathbb{G} 23'00		inferior conj	11437 Jun 07 10:16	23° \mathbb{I} 57'01	3°15'47
morning max el	11436 Jul 18 17:54	9° \mathbb{G} 03'46	26°50'17	minimum elong	11437 Jun 07 10:33	23° \mathbb{I} 56'05	3°15'05
	11436 Aug 04 03:17	0° \mathbb{Q}		min. Earth dist.	11437 Jun 08 16:49	22° \mathbb{I} 16'19	0.67123 AU
	11436 Aug 22 01:04	0° \mathbb{P}		morning rise	11437 Jun 12 19:41	17° \mathbb{I} 35'26	
morning set	11436 Aug 23 12:24	2° \mathbb{P} 47'06		direct	11437 Jun 18 20:26	14° \mathbb{I} 56'21	
max. Earth dist.	11436 Aug 27 17:01	10° \mathbb{P} 59'31	1.34035 AU	desc. node	11437 Jun 24 00:02	16° \mathbb{I} 29'19	
asc. node	11436 Aug 30 12:29	16° \mathbb{P} 42'37		morning max el	11437 Jul 01 04:30	22° \mathbb{I} 19'36	25°37'29
					11437 Jul 07 21:53	0° \mathbb{G}	
superior conj	11436 Sep 01 04:21	20° \mathbb{P} 09'35	0°16'08		11437 Jul 28 10:00	0° \mathbb{Q}	
minimum elong	11436 Sep 01 03:31	20° \mathbb{P} 05'13	0°15'46	morning set	11437 Aug 06 05:21	15° \mathbb{Q} 15'37	
behind sun begin	11436 Sep 01 02:24	19° \mathbb{P} 59'20		max. Earth dist.	11437 Aug 09 21:54	22° \mathbb{Q} 06'37	1.35900 AU
behind sun end	11436 Sep 01 04:39	20° \mathbb{P} 11'06			11437 Aug 13 23:46	0° \mathbb{P}	
	11436 Sep 05 20:06	0° \mathbb{L}					
evening rise	11436 Sep 08 12:39	5° \mathbb{L} 41'29		superior conj	11437 Aug 15 20:31	3° \mathbb{P} 42'42	-0°14'43
	11436 Sep 21 15:51	0° \mathbb{M}		minimum elong	11437 Aug 15 21:26	3° \mathbb{P} 47'17	0°14'55
evening max el	11436 Sep 28 10:13	8° \mathbb{M} 23'09	21°26'21	behind sun begin	11437 Aug 15 19:03	3° \mathbb{P} 35'20	
desc. node	11436 Oct 03 00:17	12° \mathbb{M} 04'57		behind sun end	11437 Aug 15 23:49	3° \mathbb{P} 59'15	
retrograde	11436 Oct 10 13:43	14° \mathbb{M} 25'17		asc. node	11437 Aug 17 09:14	6° \mathbb{P} 47'59	
evening set	11436 Oct 13 06:18	14° \mathbb{M} 08'39		evening rise	11437 Aug 23 19:27	19° \mathbb{P} 58'33	

	11437 Aug 28 20:10	0°♄			11438 Aug 05 20:33	0°♎	
evening max el	11437 Sep 10 14:00	19°♄12'16	20°04'52	evening rise	11438 Aug 07 20:20	3°♎56'29	
desc. node	11437 Sep 19 21:38	24°♄22'57			11438 Aug 23 12:34	0°♄	
retrograde	11437 Sep 21 03:16	24°♄27'06		evening max el	11438 Aug 24 07:37	0°♄49'24	19°04'23
evening set	11437 Sep 23 02:04	24°♄17'08		retrograde	11438 Sep 02 05:32	5°♄16'09	
inferior conj	11437 Oct 02 01:52	20°♄17'57	-3°39'43	evening set	11438 Sep 04 02:05	5°♄05'22	
minimum elong	11437 Oct 01 16:36	20°♄31'51	3°36'28	desc. node	11438 Sep 06 18:59	4°♄14'16	
min. Earth dist.	11437 Oct 03 19:28	19°♄15'37	0.54959 AU	inferior conj	11438 Sep 12 12:07	0°♄51'42	-1°47'20
morning rise	11437 Oct 10 06:00	16°♄07'58		minimum elong	11438 Sep 12 07:28	0°♄59'41	1°45'33
direct	11437 Oct 14 20:43	15°♄21'46			11438 Sep 13 18:06	30°♎	
morning max el	11437 Oct 28 11:56	22°♄02'58	24°10'39	min. Earth dist.	11438 Sep 15 08:33	28°♎54'48	0.56214 AU
	11437 Nov 04 11:03	0°♎		morning rise	11438 Sep 20 09:47	26°♎06'22	
asc. node	11437 Nov 13 10:15	14°♎03'27		direct	11438 Sep 25 19:57	24°♎57'34	
	11437 Nov 21 12:27	0°♎			11438 Oct 07 12:22	0°♄	
morning set	11437 Nov 22 07:15	1°♎39'53		morning max el	11438 Oct 10 00:03	2°♄12'30	25°51'46
					11438 Oct 29 14:30	0°♎	
superior conj	11437 Nov 29 03:34	16°♎34'11	1°39'14	asc. node	11438 Oct 31 07:04	3°♎10'55	
minimum elong	11437 Nov 29 03:40	16°♎34'44	1°39'55	morning set	11438 Nov 06 18:29	16°♎22'13	
max. Earth dist.	11437 Dec 01 10:55	21°♎33'40	1.32720 AU		11438 Nov 12 23:33	0°♎	
	11437 Dec 05 11:13	0°♄					
evening rise	11437 Dec 06 14:50	2°♄20'45		superior conj	11438 Nov 13 13:59	1°♎20'03	1°36'53
desc. node	11437 Dec 16 19:25	21°♄25'40		minimum elong	11438 Nov 13 13:02	1°♎14'44	1°37'26
	11437 Dec 22 00:31	0°♄		max. Earth dist.	11438 Nov 14 16:11	3°♎44'56	1.31811 AU
evening max el	11438 Jan 09 08:26	23°♄33'49	27°29'28	evening rise	11438 Nov 20 14:44	16°♎33'22	
	11438 Jan 18 12:12	0°♎			11438 Nov 27 09:37	0°♄	
retrograde	11438 Jan 23 01:18	0°♎57'04		desc. node	11438 Dec 03 16:28	11°♄05'05	
	11438 Jan 27 08:21	30°♎			11438 Dec 16 21:05	0°♄	
evening set	11438 Jan 29 23:14	28°♄27'53		evening max el	11438 Dec 22 17:25	6°♄17'50	27°25'20
min. Earth dist.	11438 Feb 02 18:02	25°♄09'54	0.63751 AU	retrograde	11439 Jan 05 14:43	13°♄35'09	
inferior conj	11438 Feb 05 09:30	22°♄27'21	-1°18'53	evening set	11439 Jan 12 14:16	11°♄18'50	
minimum elong	11438 Feb 05 12:01	22°♄20'52	1°17'21	min. Earth dist.	11439 Jan 16 07:45	8°♄25'56	0.61748 AU
asc. node	11438 Feb 09 09:13	18°♄45'22		inferior conj	11439 Jan 19 08:08	5°♄41'20	-2°34'13
morning rise	11438 Feb 12 02:56	17°♄08'51		minimum elong	11439 Jan 19 13:24	5°♄29'20	2°31'35
direct	11438 Feb 14 13:03	16°♄39'55		morning rise	11439 Jan 26 15:12	0°♄40'34	
morning max el	11438 Feb 21 00:30	20°♄00'18	17°48'11	asc. node	11439 Jan 27 06:25	0°♄30'21	
	11438 Feb 28 13:03	0°♎		direct	11439 Jan 28 19:41	0°♄19'49	
morning set	11438 Mar 09 14:18	15°♎08'00		morning max el	11439 Feb 04 17:21	3°♄49'26	17°50'04
desc. node	11438 Mar 14 20:06	24°♎02'31		morning set	11439 Feb 20 10:29	28°♄16'00	
	11438 Mar 18 09:37	0°♎			11439 Feb 21 09:40	0°♎	
				desc. node	11439 Mar 01 16:46	14°♎39'14	
superior conj	11438 Mar 22 09:42	6°♎34'31	-0°55'04				
minimum elong	11438 Mar 22 03:52	6°♎10'47	0°54'16	superior conj	11439 Mar 03 11:05	17°♎40'47	-0°13'30
max. Earth dist.	11438 Mar 28 00:28	15°♎35'38	1.44800 AU	minimum elong	11439 Mar 03 09:50	17°♎35'30	0°13'04
	11438 Apr 06 06:04	0°♄		behind sun begin	11439 Mar 03 04:50	17°♎14'07	
evening rise	11438 Apr 06 23:01	1°♄05'03		behind sun end	11439 Mar 03 14:51	17°♎56'50	
	11438 Apr 26 12:35	0°♎		max. Earth dist.	11439 Mar 10 15:45	29°♎39'46	1.43377 AU
evening max el	11438 May 05 07:19	10°♎49'04	20°29'00		11439 Mar 10 20:44	0°♎	
asc. node	11438 May 08 06:41	13°♎26'46		evening rise	11439 Mar 17 15:30	10°♎47'30	
retrograde	11438 May 13 08:18	15°♎28'42			11439 Mar 30 08:51	0°♄	
evening set	11438 May 17 09:18	13°♎55'07		evening max el	11439 Apr 18 03:51	24°♄34'08	21°41'09
inferior conj	11438 May 22 16:04	7°♎48'48	3°12'48	asc. node	11439 Apr 25 03:55	29°♄34'31	
minimum elong	11438 May 22 15:18	7°♎51'25	3°12'06	retrograde	11439 Apr 27 06:30	29°♄55'52	
min. Earth dist.	11438 May 23 08:33	6°♎52'11	0.68111 AU	evening set	11439 May 01 17:55	28°♄06'41	
morning rise	11438 May 27 21:03	1°♎29'59		inferior conj	11439 May 07 00:36	21°♄49'40	2°58'43
	11438 May 29 22:08	30°♎		minimum elong	11439 May 06 23:02	21°♄55'09	2°57'56
direct	11438 Jun 02 09:48	29°♄02'51		min. Earth dist.	11439 May 07 03:55	21°♄38'07	0.68639 AU
	11438 Jun 06 04:56	0°♎		morning rise	11439 May 12 03:56	15°♄35'39	
desc. node	11438 Jun 10 21:02	3°♎11'34		direct	11439 May 17 03:38	13°♄26'13	
morning max el	11438 Jun 13 14:19	5°♎45'02	24°11'14	morning max el	11439 May 27 01:02	19°♄17'12	22°41'22
	11438 Jul 02 08:26	0°♄		desc. node	11439 May 28 17:58	21°♄04'41	
morning set	11438 Jul 19 03:17	26°♄50'45			11439 Jun 05 01:30	0°♎	
	11438 Jul 20 22:45	0°♎			11439 Jun 25 12:12	0°♄	
max. Earth dist.	11438 Jul 22 19:47	3°♎19'35	1.38095 AU	morning set	11439 Jun 30 01:11	7°♄19'42	
				max. Earth dist.	11439 Jul 04 17:20	15°♄08'12	1.40404 AU
superior conj	11438 Jul 30 00:45	16°♎39'58	-0°48'10				
minimum elong	11438 Jul 30 04:01	16°♎55'34	0°48'07	superior conj	11439 Jul 12 12:58	28°♄51'44	-1°21'36
asc. node	11438 Aug 04 06:02	26°♎49'29		minimum elong	11439 Jul 12 18:37	29°♄17'20	1°21'27

	11439 Jul 13 04:00	0°♎		superior conj	11440 Jun 23 04:37	10°♊08'03	-1°50'48
asc. node	11439 Jul 22 02:51	16°♎43'03		minimum elong	11440 Jun 23 11:16	10°♊36'34	1°50'55
evening rise	11439 Jul 22 12:05	17°♎26'49			11440 Jul 04 10:17	0°♎	
	11439 Jul 29 07:13	0°♐		evening rise	11440 Jul 04 14:38	0°♎19'38	
evening max el	11439 Aug 07 12:01	13°♐09'43	18°25'11	asc. node	11440 Jul 07 23:44	6°♎24'34	
retrograde	11439 Aug 15 02:33	16°♐59'13		evening max el	11440 Jul 20 23:03	26°♎03'24	18°06'11
evening set	11439 Aug 17 04:43	16°♐42'41		retrograde	11440 Jul 27 17:36	29°♎30'54	
inferior conj	11439 Aug 24 19:45	12°♐08'51	-0°02'37	evening set	11440 Jul 30 03:31	29°♎04'48	
minimum elong	11439 Aug 24 19:39	12°♐09'04	0°02'52	inferior conj	11440 Aug 06 00:21	24°♎10'18	1°19'38
transit middle	11439 Aug 24 19:39	12°♐09'04	0°02'52	minimum elong	11440 Aug 06 02:36	24°♎05'04	1°18'24
transit begin	11439 Aug 24 16:09	12°♐16'03		min. Earth dist.	11440 Aug 09 06:09	21°♎10'08	0.60358 AU
transit end	11439 Aug 24 23:08	12°♐02'03		desc. node	11440 Aug 10 13:42	20°♎03'01	
desc. node	11439 Aug 24 16:21	12°♐15'40		morning rise	11440 Aug 12 22:46	18°♎19'23	
min. Earth dist.	11439 Aug 28 03:28	9°♐30'00	0.58125 AU	direct	11440 Aug 19 11:53	16°♎14'29	
morning rise	11439 Sep 01 07:03	6°♐47'01		morning max el	11440 Sep 02 19:06	24°♎09'03	27°51'07
direct	11439 Sep 07 09:44	5°♐10'05			11440 Sep 08 02:16	0°♐	
morning max el	11439 Sep 21 17:54	12°♐48'58	27°09'02		11440 Sep 27 14:59	0°♑	
	11439 Oct 05 07:30	0°♑		asc. node	11440 Oct 04 00:36	12°♑28'15	
asc. node	11439 Oct 18 03:51	22°♑41'18		morning set	11440 Oct 05 08:14	15°♑11'42	
	11439 Oct 21 17:09	0°♒		max. Earth dist.	11440 Oct 11 09:33	28°♑15'21	1.31484 AU
morning set	11439 Oct 22 03:24	0°♒54'14			11440 Oct 12 04:27	0°♒	
superior conj	11439 Oct 29 01:41	16°♒05'59	1°28'45	superior conj	11440 Oct 12 12:53	0°♒46'48	1°15'07
minimum elong	11439 Oct 28 23:55	15°♒56'08	1°29'03	minimum elong	11440 Oct 12 10:41	0°♒34'34	1°15'07
max. Earth dist.	11439 Oct 29 00:53	16°♒01'31	1.31398 AU	evening rise	11440 Oct 19 05:58	15°♒34'03	
	11439 Nov 04 09:19	0°♑			11440 Oct 26 08:03	0°♑	
evening rise	11439 Nov 04 20:29	0°♑59'38		desc. node	11440 Nov 06 10:50	18°♑26'57	
	11439 Nov 20 11:04	0°♒		evening max el	11440 Nov 15 15:39	29°♑21'56	25°36'00
desc. node	11439 Nov 20 13:37	0°♒09'55			11440 Nov 16 08:01	0°♒	
evening max el	11439 Dec 04 20:35	18°♒15'59	26°47'03	retrograde	11440 Nov 29 12:42	6°♒21'29	
retrograde	11439 Dec 18 19:10	25°♒24'28		evening set	11440 Dec 05 14:10	4°♒56'49	
evening set	11439 Dec 25 12:45	23°♒30'18		min. Earth dist.	11440 Dec 10 03:57	2°♒19'19	0.57570 AU
min. Earth dist.	11439 Dec 29 10:50	20°♒52'31	0.59620 AU	inferior conj	11440 Dec 13 02:44	0°♒17'29	-5°01'32
inferior conj	11440 Jan 01 14:59	18°♒21'14	-3°51'58	minimum elong	11440 Dec 13 10:38	0°♒03'50	4°59'06
minimum elong	11440 Jan 01 22:41	18°♒05'54	3°48'48		11440 Dec 13 12:52	30°♑♑	
morning rise	11440 Jan 09 11:24	13°♒41'03		morning rise	11440 Dec 21 09:30	25°♑59'49	
direct	11440 Jan 11 13:47	13°♒24'47		direct	11440 Dec 23 15:03	25°♑44'32	
asc. node	11440 Jan 14 03:36	13°♒50'26		asc. node	11440 Dec 31 00:44	28°♑45'36	
morning max el	11440 Jan 19 05:51	17°♒12'58	18°11'06		11441 Jan 01 10:02	0°♒	
	11440 Jan 28 07:18	0°♑		morning max el	11441 Jan 01 10:11	0°♒00'21	18°53'08
morning set	11440 Feb 03 21:59	12°♑06'05		morning set	11441 Jan 17 19:59	26°♒23'56	
					11441 Jan 19 15:57	0°♑	
superior conj	11440 Feb 13 12:02	29°♑52'41	0°23'40	superior conj	11441 Jan 26 08:14	12°♑58'10	0°53'38
minimum elong	11440 Feb 13 13:48	0°♑00'41	0°23'48	minimum elong	11441 Jan 26 11:09	13°♑12'03	0°53'46
	11440 Feb 13 13:39	0°♑		desc. node	11441 Feb 02 10:13	25°♑58'56	
desc. node	11440 Feb 16 13:28	5°♑19'11		max. Earth dist.	11441 Feb 02 10:08	25°♑58'37	1.39286 AU
max. Earth dist.	11440 Feb 21 02:44	13°♑09'29	1.41468 AU		11441 Feb 04 17:15	0°♑	
evening rise	11440 Feb 26 00:53	21°♑17'57		evening rise	11441 Feb 06 07:31	2°♑44'19	
	11440 Mar 02 12:31	0°♑			11441 Feb 23 17:47	0°♑	
	11440 Mar 23 13:28	0°♑		evening max el	11441 Mar 13 10:12	22°♑11'28	24°20'33
evening max el	11440 Mar 30 20:12	8°♑21'33	23°00'21	retrograde	11441 Mar 24 19:06	28°♑51'11	
retrograde	11440 Apr 10 02:30	14°♑25'04		asc. node	11441 Mar 28 22:30	27°♑33'01	
asc. node	11440 Apr 11 01:11	14°♑20'49		evening set	11441 Mar 30 05:47	26°♑34'16	
evening set	11440 Apr 15 01:15	12°♑21'10		min. Earth dist.	11441 Apr 03 20:36	21°♑16'49	0.68340 AU
inferior conj	11440 Apr 20 09:53	5°♑56'09	2°34'34	inferior conj	11441 Apr 04 18:02	20°♑04'45	2°00'45
minimum elong	11440 Apr 20 07:49	6°♑03'19	2°33'42	minimum elong	11441 Apr 04 15:53	20°♑12'00	1°59'55
min. Earth dist.	11440 Apr 20 00:39	6°♑28'07	0.68710 AU	morning rise	11441 Apr 10 02:05	14°♑04'32	
	11440 Apr 25 08:47	30°♑♑		direct	11441 Apr 13 23:45	12°♑37'40	
morning rise	11440 Apr 25 14:16	29°♑48'25		morning max el	11441 Apr 21 14:18	16°♑53'28	20°02'51
direct	11440 Apr 30 00:44	27°♑59'55		desc. node	11441 May 01 11:38	29°♑11'49	
	11440 May 05 05:10	0°♑			11441 May 02 01:18	0°♑	
morning max el	11440 May 08 16:05	2°♑59'06	21°16'33	morning set	11441 May 18 22:39	25°♑12'40	
desc. node	11440 May 14 14:50	9°♑49'29			11441 May 22 00:57	0°♑	
	11440 May 29 00:04	0°♑		max. Earth dist.	11441 May 29 07:28	11°♑26'21	1.44250 AU
morning set	11440 Jun 08 21:04	16°♑38'55					
max. Earth dist.	11440 Jun 15 20:47	27°♑51'52	1.42541 AU	superior conj	11441 Jun 03 20:18	20°♑21'47	-2°09'44
	11440 Jun 17 03:58	0°♑					

minimum elong	11441 Jun 04 00:14	20° Π 37'51	2°10'18	superior conj	11442 May 14 13:56	29° \mathcal{B} 41'57	-2°11'41
	11441 Jun 09 16:10	0° \mathfrak{D}		minimum elong	11442 May 14 10:51	29° \mathcal{B} 29'50	2°12'11
evening rise	11441 Jun 16 23:08	12° \mathfrak{D} 22'59			11442 May 14 18:30	0° Π	
asc. node	11441 Jun 24 20:42	25° \mathfrak{D} 48'19		evening rise	11442 May 29 09:05	23° Π 28'04	
	11441 Jun 27 11:19	0° Ω			11442 Jun 02 08:58	0° \mathfrak{D}	
evening max el	11441 Jul 04 12:49	9° Ω 19'47	18°06'15	asc. node	11442 Jun 11 17:44	14° \mathfrak{D} 48'09	
retrograde	11441 Jul 10 22:21	12° Ω 40'10		evening max el	11442 Jun 18 02:08	22° \mathfrak{D} 51'21	18°24'38
evening set	11441 Jul 13 16:14	12° Ω 01'44		retrograde	11442 Jun 24 12:19	26° \mathfrak{D} 18'25	
inferior conj	11441 Jul 19 22:17	6° Ω 48'29	2°17'19	evening set	11442 Jun 27 14:15	25° \mathfrak{D} 25'42	
minimum elong	11441 Jul 20 00:57	6° Ω 41'23	2°16'00	inferior conj	11442 Jul 03 09:27	19° \mathfrak{D} 55'43	2°53'23
min. Earth dist.	11441 Jul 22 18:04	3° Ω 49'24	0.62610 AU	minimum elong	11442 Jul 03 11:28	19° \mathfrak{D} 49'46	2°52'20
morning rise	11441 Jul 26 07:41	0° Ω 38'42		min. Earth dist.	11442 Jul 05 15:28	17° \mathfrak{D} 16'59	0.64659 AU
	11441 Jul 27 06:17	30° \mathcal{R} \mathfrak{D}		morning rise	11442 Jul 09 07:30	13° \mathfrak{D} 36'26	
desc. node	11441 Jul 28 11:00	29° \mathfrak{D} 19'08		desc. node	11442 Jul 15 08:13	10° \mathfrak{D} 57'02	
direct	11441 Aug 02 00:22	28° \mathfrak{D} 11'21		direct	11442 Jul 15 21:38	10° \mathfrak{D} 55'57	
	11441 Aug 08 05:45	0° Ω		morning max el	11442 Jul 29 12:32	18° \mathfrak{D} 55'05	27°22'12
morning max el	11441 Aug 16 02:14	6° Ω 13'45	27°54'32		11442 Aug 07 21:39	0° Ω	
	11441 Sep 03 03:08	0° \mathfrak{M}			11442 Aug 27 02:42	0° \mathfrak{M}	
morning set	11441 Sep 19 06:51	29° \mathfrak{M} 08'23		morning set	11442 Sep 02 20:39	12° \mathfrak{M} 37'45	
	11441 Sep 19 17:00	0° \mathfrak{L}		max. Earth dist.	11442 Sep 07 10:36	21° \mathfrak{M} 50'40	1.33163 AU
asc. node	11441 Sep 20 21:21	2° \mathfrak{L} 25'44		asc. node	11442 Sep 07 18:05	22° \mathfrak{M} 29'22	
max. Earth dist.	11441 Sep 24 14:04	10° \mathfrak{L} 14'41	1.32067 AU				
				superior conj	11442 Sep 11 01:57	29° \mathfrak{M} 29'15	0°32'05
superior conj	11441 Sep 26 21:39	15° \mathfrak{L} 16'26	0°56'08	minimum elong	11442 Sep 11 00:26	29° \mathfrak{M} 21'11	0°31'42
minimum elong	11441 Sep 26 19:30	15° \mathfrak{L} 04'39	0°55'53		11442 Sep 11 07:43	0° \mathfrak{L}	
evening rise	11441 Oct 03 17:11	0° \mathfrak{M} 10'20		evening rise	11442 Sep 18 04:15	14° \mathfrak{L} 43'17	
	11441 Oct 03 15:16	0° \mathfrak{M}			11442 Sep 25 18:52	0° \mathfrak{M}	
	11441 Oct 20 00:48	0° \mathfrak{J}		evening max el	11442 Oct 09 14:34	19° \mathfrak{M} 47'49	22°20'58
desc. node	11441 Oct 24 08:07	5° \mathfrak{J} 37'40		desc. node	11442 Oct 11 05:26	21° \mathfrak{M} 17'17	
evening max el	11441 Oct 28 03:21	9° \mathfrak{J} 42'58	24°01'51	retrograde	11442 Oct 22 11:53	26° \mathfrak{M} 12'27	
retrograde	11441 Nov 10 18:12	16° \mathfrak{J} 31'26		evening set	11442 Oct 25 21:39	25° \mathfrak{M} 46'50	
evening set	11441 Nov 15 15:21	15° \mathfrak{J} 39'13		min. Earth dist.	11442 Nov 02 21:15	22° \mathfrak{M} 13'55	0.54793 AU
min. Earth dist.	11441 Nov 21 14:02	12° \mathfrak{J} 43'02	0.55858 AU	inferior conj	11442 Nov 03 16:05	21° \mathfrak{M} 47'21	-5°39'45
inferior conj	11441 Nov 23 17:56	11° \mathfrak{J} 24'19	-5°44'44	minimum elong	11442 Nov 03 11:01	21° \mathfrak{M} 54'31	5°38'43
minimum elong	11441 Nov 23 21:15	11° \mathfrak{J} 19'16	5°43'51	morning rise	11442 Nov 12 01:52	18° \mathfrak{M} 00'09	
morning rise	11441 Dec 02 05:08	7° \mathfrak{J} 27'12		direct	11442 Nov 15 09:43	17° \mathfrak{M} 35'16	
direct	11441 Dec 04 20:39	7° \mathfrak{J} 09'17		morning max el	11442 Nov 27 05:17	23° \mathfrak{M} 11'13	21°24'45
morning max el	11441 Dec 15 02:40	12° \mathfrak{J} 01'47	19°57'49		11442 Dec 03 02:11	0° \mathfrak{J}	
asc. node	11441 Dec 17 21:48	15° \mathfrak{J} 02'54		asc. node	11442 Dec 04 18:49	2° \mathfrak{J} 25'29	
	11441 Dec 27 10:52	0° \mathfrak{Z}		morning set	11442 Dec 17 10:11	25° \mathfrak{J} 43'46	
morning set	11442 Jan 02 00:57	10° \mathfrak{Z} 59'18			11442 Dec 19 10:58	0° \mathfrak{Z}	
				superior conj	11442 Dec 24 15:58	10° \mathfrak{Z} 57'23	1°30'15
superior conj	11442 Jan 09 18:55	26° \mathfrak{Z} 43'53	1°15'44	minimum elong	11442 Dec 24 17:52	11° \mathfrak{Z} 07'19	1°30'50
minimum elong	11442 Jan 09 21:42	26° \mathfrak{Z} 57'43	1°16'04	max. Earth dist.	11442 Dec 29 03:11	20° \mathfrak{Z} 03'45	1.35083 AU
	11442 Jan 11 10:32	0° \approx		evening rise	11443 Jan 02 06:23	28° \mathfrak{Z} 05'11	
max. Earth dist.	11442 Jan 15 16:40	8° \approx 10'46	1.37079 AU		11443 Jan 03 06:50	0° \approx	
evening rise	11442 Jan 19 10:27	15° \approx 03'04		desc. node	11443 Jan 07 03:51	7° \approx 02'29	
desc. node	11442 Jan 20 07:00	16° \approx 34'55			11443 Jan 21 11:23	0° \mathfrak{H}	
	11442 Jan 28 04:49	0° \mathfrak{H}		evening max el	11443 Feb 06 13:01	19° \mathfrak{H} 47'50	26°36'33
	11442 Feb 18 10:09	0° \mathfrak{Y}		retrograde	11443 Feb 19 14:23	27° \mathfrak{H} 08'39	
evening max el	11442 Feb 23 23:31	6° \mathfrak{Y} 02'08	25°35'01	evening set	11443 Feb 25 23:50	24° \mathfrak{H} 36'06	
retrograde	11442 Mar 08 07:22	13° \mathfrak{Y} 08'25		min. Earth dist.	11443 Mar 02 01:40	20° \mathfrak{H} 27'54	0.66348 AU
evening set	11442 Mar 14 05:55	10° \mathfrak{Y} 41'26		asc. node	11443 Mar 02 17:09	19° \mathfrak{H} 42'11	
asc. node	11442 Mar 15 19:49	9° \mathfrak{Y} 11'55		inferior conj	11443 Mar 03 23:05	18° \mathfrak{H} 12'30	0°24'11
min. Earth dist.	11442 Mar 18 13:40	5° \mathfrak{Y} 59'03	0.67543 AU	minimum elong	11443 Mar 03 22:27	18° \mathfrak{H} 14'25	0°24'09
inferior conj	11442 Mar 19 23:08	4° \mathfrak{Y} 12'01	1°17'21	morning rise	11443 Mar 09 22:08	12° \mathfrak{H} 31'45	
minimum elong	11442 Mar 19 21:25	4° \mathfrak{Y} 17'30	1°16'45	direct	11443 Mar 12 21:25	11° \mathfrak{H} 42'34	
	11442 Mar 23 13:10	30° \mathcal{R} \mathfrak{H}		morning max el	11443 Mar 19 08:45	15° \mathfrak{H} 09'16	18°20'59
morning rise	11442 Mar 25 13:26	28° \mathfrak{H} 20'38			11443 Mar 30 09:06	0° \mathfrak{Y}	
direct	11442 Mar 28 23:14	27° \mathfrak{H} 14'01		desc. node	11443 Apr 05 05:01	9° \mathfrak{Y} 11'16	
	11442 Apr 03 18:54	0° \mathfrak{Y}		morning set	11443 Apr 08 05:07	13° \mathfrak{Y} 58'25	
morning max el	11442 Apr 04 20:19	0° \mathfrak{Y} 58'58	19°03'49		11443 Apr 18 07:58	0° \mathcal{B}	
greatest brilliancy	11442 Apr 18 01:50	18° \mathfrak{Y} 37'11	-0.7m				
desc. node	11442 Apr 18 08:21	19° \mathfrak{Y} 01'47		superior conj	11443 Apr 23 20:44	8° \mathcal{B} 40'16	-1°53'20
	11442 Apr 25 12:20	0° \mathcal{B}		minimum elong	11443 Apr 23 11:49	8° \mathcal{B} 05'25	1°53'03
morning set	11442 Apr 28 02:37	4° \mathcal{B} 00'47		max. Earth dist.	11443 Apr 24 18:27	10° \mathcal{B} 05'07	1.45717 AU
max. Earth dist.	11442 May 11 23:29	25° \mathcal{B} 36'19	1.45345 AU				

	11443 May 07 12:14	0°♊		desc. node	11444 Mar 22 01:39	29°♎34'49	
evening rise	11443 May 09 18:56	3°♊34'26			11444 Mar 22 07:44	0°♎	
greatest brilliancy	11443 May 20 01:24	19°♊36'45	-0.8m				
	11443 May 27 02:54	0°♋		superior conj	11444 Apr 02 10:39	18°♎04'07	-1°18'44
asc. node	11443 May 29 14:49	3°♋15'44		minimum elong	11444 Apr 02 02:23	17°♎31'07	1°17'53
evening max el	11443 Jun 01 12:25	6°♋31'50	19°00'37	max. Earth dist.	11444 Apr 06 14:11	24°♎38'01	1.45348 AU
retrograde	11443 Jun 08 07:48	10°♋18'15			11444 Apr 10 00:26	0°♏	
evening set	11443 Jun 11 18:12	9°♋09'59		evening rise	11444 Apr 18 10:48	13°♏02'19	
inferior conj	11443 Jun 17 06:11	3°♋24'54	3°11'49		11444 Apr 29 14:52	0°♊	
minimum elong	11443 Jun 17 07:07	3°♋21'54	3°11'02	greatest brilliancy	11444 May 03 01:02	5°♊03'40	-0.6m
min. Earth dist.	11443 Jun 18 21:19	1°♋20'20	0.66349 AU	evening max el	11444 May 14 17:49	20°♊15'49	19°52'43
	11443 Jun 19 23:35	30°♋♊		asc. node	11444 May 15 11:58	21°♊00'04	
morning rise	11443 Jun 22 19:25	27°♊02'54		retrograde	11444 May 22 05:59	24°♊33'01	
direct	11443 Jun 29 02:10	24°♊20'11		evening set	11444 May 26 01:30	23°♊08'35	
desc. node	11443 Jul 02 05:21	24°♊54'39		inferior conj	11444 May 31 09:24	17°♊09'41	3°15'57
	11443 Jul 09 21:09	0°♋		minimum elong	11444 May 31 09:13	17°♊10'17	3°15'15
morning max el	11443 Jul 11 23:20	2°♋01'12	26°21'30	min. Earth dist.	11444 Jun 01 09:54	15°♊47'18	0.67606 AU
	11443 Aug 02 00:57	0°♌		morning rise	11444 Jun 05 16:36	10°♊49'10	
morning set	11443 Aug 16 22:23	25°♌31'46		direct	11444 Jun 11 12:35	8°♊14'06	
	11443 Aug 19 06:56	0°♍		desc. node	11444 Jun 18 02:23	10°♊45'13	
max. Earth dist.	11443 Aug 20 20:48	3°♍03'41	1.34768 AU	morning max el	11444 Jun 23 09:17	15°♊21'00	25°01'45
					11444 Jul 05 10:01	0°♋	
superior conj	11443 Aug 25 23:23	13°♍19'30	0°03'29		11444 Jul 24 22:17	0°♌	
minimum elong	11443 Aug 25 23:13	13°♍18'35	0°03'11	morning set	11444 Jul 29 07:46	7°♌38'48	
behind sun begin	11443 Aug 25 17:23	12°♍48'39		max. Earth dist.	11444 Aug 01 21:49	14°♌08'55	1.36805 AU
behind sun end	11443 Aug 26 05:03	13°♍48'35					
asc. node	11443 Aug 25 14:49	12°♍35'29		superior conj	11444 Aug 08 10:56	26°♌38'42	-0°28'43
evening rise	11443 Sep 02 13:14	29°♍08'05		minimum elong	11444 Aug 08 12:47	26°♌47'50	0°28'48
	11443 Sep 02 23:14	0°♎			11444 Aug 10 03:36	0°♍	
	11443 Sep 21 05:05	0°♎		asc. node	11444 Aug 11 11:34	2°♍39'47	
evening max el	11443 Sep 21 10:50	0°♎14'23	20°49'26	evening rise	11444 Aug 16 17:51	13°♍17'53	
desc. node	11443 Sep 28 02:47	4°♎57'04			11444 Aug 25 12:58	0°♎	
retrograde	11443 Oct 02 23:05	5°♎57'05		evening max el	11444 Sep 02 20:45	11°♎23'54	19°36'31
evening set	11443 Oct 05 05:45	5°♎44'37		retrograde	11444 Sep 12 16:22	16°♎17'02	
inferior conj	11443 Oct 14 08:00	1°♎49'42	-4°36'40	desc. node	11444 Sep 14 00:09	16°♎12'03	
minimum elong	11443 Oct 13 22:04	2°♎03'51	4°33'44	evening set	11444 Sep 14 13:00	16°♎07'17	
min. Earth dist.	11443 Oct 15 04:52	1°♎19'57	0.54622 AU	inferior conj	11444 Sep 23 08:05	12°♎03'05	-2°52'39
	11443 Oct 17 14:45	30°♎♎		minimum elong	11444 Sep 23 00:29	12°♎15'03	2°49'48
morning rise	11443 Oct 22 14:24	27°♎53'50		min. Earth dist.	11444 Sep 25 14:57	10°♎36'48	0.55398 AU
direct	11443 Oct 26 17:57	27°♎16'52		morning rise	11444 Oct 01 09:58	7°♎39'30	
	11443 Nov 04 06:33	0°♏		direct	11444 Oct 06 09:26	6°♎44'26	
morning max el	11443 Nov 08 20:19	3°♏36'04	23°08'20	morning max el	11444 Oct 20 06:58	13°♎40'27	24°55'36
asc. node	11443 Nov 21 15:44	20°♏38'20			11444 Nov 02 00:46	0°♏	
	11443 Nov 26 18:20	0°♐		asc. node	11444 Nov 07 12:35	9°♏28'25	
morning set	11443 Dec 01 21:36	10°♐31'31		morning set	11444 Nov 15 09:21	25°♏16'40	
					11444 Nov 17 13:43	0°♐	
superior conj	11443 Dec 08 20:09	25°♐29'20	1°37'48				
minimum elong	11443 Dec 08 20:55	25°♐33'29	1°38'30	superior conj	11444 Nov 22 04:53	10°♐11'17	1°38'57
	11443 Dec 10 22:54	0°♑		minimum elong	11444 Nov 22 04:31	10°♐09'15	1°39'36
max. Earth dist.	11443 Dec 11 21:28	1°♑58'50	1.33458 AU	max. Earth dist.	11444 Nov 23 23:27	14°♐04'15	1.32277 AU
evening rise	11443 Dec 16 15:43	11°♑41'27		evening rise	11444 Nov 29 11:06	25°♐42'21	
desc. node	11443 Dec 25 00:47	27°♑16'50			11444 Dec 01 14:05	0°♑	
	11443 Dec 26 14:40	0°♒		desc. node	11444 Dec 10 21:49	17°♑11'06	
	11444 Jan 16 20:24	0°♒			11444 Dec 19 01:28	0°♒	
evening max el	11444 Jan 20 02:21	3°♒19'55	27°17'45	evening max el	11445 Jan 01 13:44	16°♒25'15	27°31'47
retrograde	11444 Feb 02 15:08	10°♒44'07		retrograde	11445 Jan 15 08:43	23°♒45'36	
evening set	11444 Feb 09 09:26	8°♒11'55		evening set	11445 Jan 22 08:07	21°♒21'05	
min. Earth dist.	11444 Feb 13 06:30	4°♒36'16	0.64794 AU	min. Earth dist.	11445 Jan 26 02:02	18°♒14'35	0.62927 AU
inferior conj	11444 Feb 15 15:32	2°♒00'56	-0°38'36	inferior conj	11445 Jan 28 21:36	15°♒29'47	-1°50'06
minimum elong	11444 Feb 15 16:41	1°♒57'46	0°37'43	minimum elong	11445 Jan 29 01:14	15°♒20'52	1°48'05
asc. node	11444 Feb 17 14:26	29°♒56'51		asc. node	11445 Feb 03 11:40	10°♒55'42	
	11444 Feb 17 13:11	30°♒♒		morning rise	11445 Feb 04 20:42	10°♒18'12	
morning rise	11444 Feb 22 01:39	26°♒33'10		direct	11445 Feb 07 04:12	9°♒53'05	
direct	11444 Feb 24 16:03	25°♒57'52		morning max el	11445 Feb 13 18:51	13°♒16'04	17°46'43
morning max el	11444 Mar 02 01:14	29°♒17'37	17°55'04		11445 Feb 25 07:13	0°♒	
	11444 Mar 02 17:51	0°♒		morning set	11445 Mar 01 21:26	7°♒58'08	
morning set	11444 Mar 19 12:41	25°♒21'59		desc. node	11445 Mar 08 22:19	20°♒08'10	

superior conj	11445 Mar 13 21:43	28° H 29'58	-0°37'12	superior conj	11446 Feb 23 09:35	10° H 05'48	0°03'03
minimum elong	11445 Mar 13 17:56	28° H 14'16	0°36'32	minimum elong	11446 Feb 23 09:52	10° H 07'04	0°03'19
	11445 Mar 14 19:30	0° Y		behind sun begin	11446 Feb 23 01:53	9° H 32'11	
max. Earth dist.	11445 Mar 20 08:20	8° Y 59'36	1.44272 AU	behind sun end	11446 Feb 23 17:52	10° H 41'52	
evening rise	11445 Mar 28 22:43	22° Y 29'24		desc. node	11446 Feb 23 19:02	10° H 46'59	
	11445 Apr 02 20:51	0° B		max. Earth dist.	11446 Mar 02 22:14	22° H 52'04	1.42608 AU
	11445 Apr 24 02:59	0° II			11446 Mar 07 07:38	0° Y	
evening max el	11445 Apr 27 17:31	4° II 01'07	20°58'28	evening rise	11446 Mar 08 21:22	2° Y 30'04	
asc. node	11445 May 02 09:10	7° II 48'08			11446 Mar 27 07:07	0° B	
retrograde	11445 May 06 04:44	8° II 57'48		evening max el	11446 Apr 10 11:58	17° B 46'56	22°14'12
evening set	11445 May 10 10:10	7° II 17'17		asc. node	11446 Apr 19 06:25	23° B 23'45	
inferior conj	11445 May 15 16:38	1° II 06'10	3°08'04	retrograde	11446 Apr 20 02:17	23° B 27'03	
minimum elong	11445 May 15 15:29	1° II 10'07	3°07'21	evening set	11446 Apr 24 18:28	21° B 31'12	
min. Earth dist.	11445 May 16 03:21	0° II 29'00	0.68398 AU	inferior conj	11446 Apr 30 01:44	15° B 10'11	2°49'39
	11445 May 16 11:45	30° R B		minimum elong	11446 Apr 29 23:54	15° B 16'34	2°48'51
morning rise	11445 May 20 20:36	24° B 49'28		min. Earth dist.	11446 Apr 29 23:33	15° B 17'49	0.68726 AU
direct	11445 May 26 03:54	22° B 29'29		morning rise	11446 May 05 05:13	8° B 58'47	
desc. node	11445 Jun 04 23:21	28° B 00'51		direct	11446 May 09 23:10	6° B 58'18	
morning max el	11445 Jun 05 19:11	28° B 49'51	23°32'54	morning max el	11446 May 19 07:33	12° B 26'51	22°04'16
	11445 Jun 06 22:14	0° II		desc. node	11446 May 22 20:16	16° B 18'17	
	11445 Jun 29 03:35	0° B			11446 Jun 02 06:42	0° II	
morning set	11445 Jul 10 20:00	18° B 47'12		morning set	11446 Jun 21 06:46	28° II 46'23	
max. Earth dist.	11445 Jul 14 19:17	25° B 36'36	1.39088 AU		11446 Jun 22 01:02	0° B	
	11445 Jul 17 06:50	0° Q		max. Earth dist.	11446 Jun 26 19:05	7° B 48'43	1.41353 AU
superior conj	11445 Jul 22 08:55	9° Q 18'14	-1°02'33	superior conj	11446 Jul 04 12:52	21° B 07'17	-1°34'50
minimum elong	11445 Jul 22 13:14	9° Q 38'29	1°02'26	minimum elong	11446 Jul 04 19:15	21° B 35'30	1°34'45
asc. node	11445 Jul 29 08:22	22° Q 38'47			11446 Jul 09 11:21	0° Q	
evening rise	11445 Jul 31 15:18	27° Q 05'44		evening rise	11446 Jul 15 02:01	10° Q 21'43	
	11445 Aug 02 03:19	0° P		asc. node	11446 Jul 16 05:14	12° Q 27'56	
evening max el	11445 Aug 16 19:22	23° P 20'08	18°45'04		11446 Jul 26 09:00	0° P	
retrograde	11445 Aug 25 02:36	27° P 29'35		evening max el	11446 Jul 31 03:00	5° P 55'32	18°14'38
evening set	11445 Aug 27 01:04	27° P 16'50		retrograde	11446 Aug 07 07:52	9° P 34'12	
desc. node	11445 Aug 31 21:30	25° P 08'40		evening set	11446 Aug 09 13:04	9° P 14'08	
inferior conj	11445 Sep 04 03:09	22° P 54'24	-1°00'40	inferior conj	11446 Aug 16 20:04	4° P 31'21	0°35'19
minimum elong	11445 Sep 04 00:38	22° P 59'00	0°59'50	minimum elong	11446 Aug 16 21:14	4° P 28'51	0°34'31
min. Earth dist.	11445 Sep 07 06:02	20° P 37'49	0.56970 AU	desc. node	11446 Aug 18 18:51	2° P 50'25	
morning rise	11445 Sep 11 20:51	17° P 53'06		min. Earth dist.	11446 Aug 20 04:15	1° P 40'28	0.59052 AU
direct	11445 Sep 17 14:27	16° P 33'04			11446 Aug 22 09:12	30° R Q	
morning max el	11445 Oct 01 21:10	23° P 58'36	26°28'31	morning rise	11446 Aug 24 01:58	28° Q 55'31	
	11445 Oct 07 08:55	0° A		direct	11446 Aug 30 09:43	27° Q 06'22	
asc. node	11445 Oct 25 09:24	28° A 46'31			11446 Sep 07 19:40	0° P	
	11445 Oct 26 00:21	0° M		morning max el	11446 Sep 13 18:28	4° P 53'40	27°31'42
morning set	11445 Oct 30 19:49	9° M 55'02			11446 Oct 02 07:52	0° A	
superior conj	11445 Nov 06 16:04	24° M 57'26	1°34'08	asc. node	11446 Oct 12 06:12	18° A 25'02	
minimum elong	11445 Nov 06 14:43	24° M 49'59	1°34'34	morning set	11446 Oct 15 03:16	24° A 21'59	
max. Earth dist.	11445 Nov 07 06:45	26° M 19'08	1.31576 AU		11446 Oct 17 18:20	0° M	
	11445 Nov 08 22:38	0° X		max. Earth dist.	11446 Oct 21 15:53	8° M 35'51	1.31366 AU
evening rise	11445 Nov 13 13:45	10° X 01'03		superior conj	11446 Oct 22 03:47	9° M 42'11	1°23'39
	11445 Nov 23 20:58	0° B		minimum elong	11446 Oct 22 01:47	9° M 31'02	1°23'48
desc. node	11445 Nov 27 18:55	6° B 37'06		evening rise	11446 Oct 28 21:21	24° M 31'32	
evening max el	11445 Dec 14 20:30	28° B 50'23	27°13'15		11446 Oct 31 11:47	0° X	
	11445 Dec 16 02:59	0° \approx		desc. node	11446 Nov 14 16:05	25° X 23'52	
retrograde	11445 Dec 28 18:16	6° \approx 03'48			11446 Nov 17 21:01	0° B	
evening set	11446 Jan 04 16:36	3° \approx 55'34		evening max el	11446 Nov 26 20:09	10° B 26'02	26°20'29
min. Earth dist.	11446 Jan 08 10:57	1° \approx 10'58	0.60847 AU	retrograde	11446 Dec 10 18:37	17° B 31'42	
	11446 Jan 09 20:27	30° R B		evening set	11446 Dec 17 06:47	15° B 49'01	
inferior conj	11446 Jan 11 13:55	28° B 30'03	-3°07'25	min. Earth dist.	11446 Dec 21 09:34	13° B 13'37	0.58715 AU
minimum elong	11446 Jan 11 20:20	28° B 16'13	3°04'25	inferior conj	11446 Dec 24 13:01	10° B 52'35	-4°23'25
morning rise	11446 Jan 19 02:50	23° B 37'55		minimum elong	11446 Dec 24 21:14	10° B 37'11	4°20'23
direct	11446 Jan 21 06:02	23° B 19'25		morning rise	11447 Jan 01 14:26	6° B 22'19	
asc. node	11446 Jan 21 08:54	23° B 19'29		direct	11447 Jan 03 17:17	6° B 07'01	
morning max el	11446 Jan 28 10:19	26° B 55'26	17°56'42	asc. node	11447 Jan 08 06:05	7° B 21'24	
	11446 Jan 31 03:22	0° \approx		morning max el	11447 Jan 11 19:57	10° B 05'48	18°26'24
morning set	11446 Feb 13 00:48	21° \approx 26'03			11447 Jan 24 19:59	0° \approx	
	11446 Feb 17 17:25	0° H		morning set	11447 Jan 27 17:17	5° \approx 29'33	

superior conj	11447 Feb 05 19:23	22° \approx 42'47	0°37'19	superior conj	11448 Jan 19 22:15	6° \approx 06'25	1°03'57
minimum elong	11447 Feb 05 21:51	22° \approx 54'08	0°37'24	minimum elong	11448 Jan 20 01:14	6° \approx 20'53	1°04'09
	11447 Feb 09 19:58	0° \mathbb{H}		max. Earth dist.	11448 Jan 26 13:08	18° \approx 33'17	1.38333 AU
desc. node	11447 Feb 10 15:45	1° \mathbb{H} 27'36		desc. node	11448 Jan 28 12:31	22° \approx 06'04	
max. Earth dist.	11447 Feb 13 07:03	6° \mathbb{H} 03'17	1.40551 AU	evening rise	11448 Jan 30 07:12	25° \approx 13'51	
evening rise	11447 Feb 17 15:38	13° \mathbb{H} 24'22			11448 Feb 02 01:56	0° \mathbb{H}	
	11447 Feb 28 03:36	0° \mathbb{Y}			11448 Feb 21 19:12	0° \mathbb{Y}	
	11447 Mar 22 14:06	0° \mathbb{B}		evening max el	11448 Mar 05 16:35	15° \mathbb{Y} 26'01	24°53'26
evening max el	11447 Mar 24 02:57	1° \mathbb{B} 35'10	23°34'39	retrograde	11448 Mar 17 12:03	22° \mathbb{Y} 18'28	
retrograde	11447 Apr 03 21:09	7° \mathbb{B} 55'50		evening set	11448 Mar 23 03:41	19° \mathbb{Y} 57'08	
asc. node	11447 Apr 06 03:42	7° \mathbb{B} 31'34		asc. node	11448 Mar 23 01:02	20° \mathbb{Y} 02'42	
evening set	11447 Apr 09 00:49	5° \mathbb{B} 46'09		min. Earth dist.	11448 Mar 27 15:25	14° \mathbb{Y} 54'24	0.68048 AU
	11447 Apr 13 22:41	30° \mathbb{R} \mathbb{Y}		inferior conj	11448 Mar 28 17:53	13° \mathbb{Y} 27'01	1°43'34
inferior conj	11447 Apr 14 10:47	29° \mathbb{Y} 18'27	2°21'25	minimum elong	11448 Mar 28 15:51	13° \mathbb{Y} 33'45	1°42'48
minimum elong	11447 Apr 14 08:38	29° \mathbb{Y} 25'52	2°20'33	morning rise	11448 Apr 03 04:15	7° \mathbb{Y} 30'05	
min. Earth dist.	11447 Apr 13 20:20	0° \mathbb{B} 08'03	0.68604 AU	direct	11448 Apr 06 20:45	6° \mathbb{Y} 11'57	
morning rise	11447 Apr 19 16:24	23° \mathbb{Y} 13'34		morning max el	11448 Apr 14 02:54	10° \mathbb{Y} 13'13	19°35'45
direct	11447 Apr 23 21:15	21° \mathbb{Y} 34'25		desc. node	11448 Apr 25 13:53	24° \mathbb{Y} 55'56	
morning max el	11447 May 02 01:27	26° \mathbb{Y} 14'19	20°43'30	greatest brilliancy	11448 Apr 26 19:30	26° \mathbb{Y} 44'03	-0.7m
	11447 May 05 11:42	0° \mathbb{B}			11448 Apr 29 00:30	0° \mathbb{B}	
desc. node	11447 May 09 17:07	5° \mathbb{B} 20'46		morning set	11448 May 09 16:46	16° \mathbb{B} 12'43	
	11447 May 26 17:13	0° \mathbb{II}			11448 May 18 13:54	0° \mathbb{II}	
morning set	11447 May 31 17:08	7° \mathbb{II} 41'18		max. Earth dist.	11448 May 21 14:05	4° \mathbb{II} 44'12	1.44801 AU
max. Earth dist.	11447 Jun 09 01:02	20° \mathbb{II} 52'58	1.43335 AU				
	11447 Jun 14 14:28	0° \mathbb{E}		superior conj	11448 May 26 00:17	11° \mathbb{II} 46'59	-2°12'58
superior conj	11447 Jun 15 18:34	1° \mathbb{E} 57'20	-2°00'31	minimum elong	11448 May 26 01:36	11° \mathbb{II} 52'17	2°13'36
minimum elong	11447 Jun 16 00:39	2° \mathbb{E} 22'51	2°00'49		11448 Jun 06 03:19	0° \mathbb{E}	
evening rise	11447 Jun 27 21:31	22° \mathbb{E} 54'55		evening rise	11448 Jun 08 20:53	4° \mathbb{E} 34'30	
	11447 Jul 01 21:59	0° \mathbb{O}		asc. node	11448 Jun 18 23:06	21° \mathbb{E} 17'24	
asc. node	11447 Jul 03 02:08	2° \mathbb{O} 02'36			11448 Jun 25 01:25	0° \mathbb{O}	
evening max el	11447 Jul 14 15:39	19° \mathbb{O} 00'11	18°03'55	evening max el	11448 Jun 27 05:42	2° \mathbb{O} 25'03	18°11'54
retrograde	11447 Jul 21 05:10	22° \mathbb{O} 22'49		retrograde	11448 Jul 03 14:14	5° \mathbb{O} 46'14	
evening set	11447 Jul 23 18:25	21° \mathbb{O} 51'52		evening set	11448 Jul 06 11:37	5° \mathbb{O} 01'49	
inferior conj	11447 Jul 30 08:32	16° \mathbb{O} 49'27	1°46'57		11448 Jul 12 05:54	30° \mathbb{R} \mathbb{E}	
minimum elong	11447 Jul 30 11:08	16° \mathbb{O} 43'00	1°45'38	inferior conj	11448 Jul 12 12:36	29° \mathbb{E} 41'24	2°34'59
min. Earth dist.	11447 Aug 02 10:57	13° \mathbb{O} 46'44	0.61332 AU	minimum elong	11448 Jul 12 15:04	29° \mathbb{E} 34'29	2°33'46
desc. node	11447 Aug 05 16:10	11° \mathbb{O} 05'01		min. Earth dist.	11448 Jul 15 02:51	26° \mathbb{E} 48'58	0.63524 AU
morning rise	11447 Aug 06 01:17	10° \mathbb{O} 49'11		morning rise	11448 Jul 18 16:56	23° \mathbb{E} 26'53	
direct	11447 Aug 12 16:52	8° \mathbb{O} 33'21		desc. node	11448 Jul 22 13:25	21° \mathbb{E} 19'32	
morning max el	11447 Aug 26 22:23	16° \mathbb{O} 33'05	27°57'10	direct	11448 Jul 25 09:24	20° \mathbb{E} 52'33	
	11447 Sep 07 00:36	0° \mathbb{P}		morning max el	11448 Aug 08 07:00	28° \mathbb{E} 54'31	27°44'41
	11447 Sep 24 23:35	0° \mathbb{A}			11448 Aug 09 08:29	0° \mathbb{O}	
morning set	11447 Sep 29 05:42	8° \mathbb{A} 31'19		morning set	11448 Aug 30 21:52	0° \mathbb{P}	
asc. node	11447 Sep 29 02:57	8° \mathbb{A} 17'05		asc. node	11448 Sep 12 00:54	22° \mathbb{P} 17'26	
max. Earth dist.	11447 Oct 04 23:01	20° \mathbb{A} 43'41	1.31662 AU		11448 Sep 14 23:40	28° \mathbb{P} 17'57	
					11448 Sep 15 19:16	0° \mathbb{A}	
superior conj	11447 Oct 06 14:11	24° \mathbb{A} 19'05	1°07'43	max. Earth dist.	11448 Sep 17 00:29	2° \mathbb{A} 33'52	1.32474 AU
minimum elong	11447 Oct 06 11:56	24° \mathbb{A} 06'40	1°07'35				
	11447 Oct 09 03:48	0° \mathbb{M}		superior conj	11448 Sep 19 21:20	8° \mathbb{A} 42'49	0°46'32
evening rise	11447 Oct 13 07:46	9° \mathbb{M} 07'16		minimum elong	11448 Sep 19 19:22	8° \mathbb{A} 32'11	0°46'13
	11447 Oct 23 22:23	0° \mathbb{J}		evening rise	11448 Sep 26 19:10	23° \mathbb{A} 43'15	
desc. node	11447 Nov 01 13:19	13° \mathbb{J} 15'23			11448 Sep 29 18:48	0° \mathbb{M}	
evening max el	11447 Nov 08 11:42	21° \mathbb{J} 10'58	24°58'04	desc. node	11448 Oct 18 10:35	29° \mathbb{M} 50'43	
retrograde	11447 Nov 22 07:32	28° \mathbb{J} 06'54			11448 Oct 18 14:06	0° \mathbb{J}	
evening set	11447 Nov 27 22:02	26° \mathbb{J} 56'24		evening max el	11448 Oct 19 22:15	1° \mathbb{J} 21'20	23°18'43
min. Earth dist.	11447 Dec 02 23:35	24° \mathbb{J} 13'02	0.56773 AU	retrograde	11448 Nov 02 07:12	8° \mathbb{J} 00'50	
inferior conj	11447 Dec 05 16:00	22° \mathbb{J} 28'10	-5°24'26	evening set	11448 Nov 06 13:29	7° \mathbb{J} 21'23	
minimum elong	11447 Dec 05 22:38	22° \mathbb{J} 17'20	5°22'41	min. Earth dist.	11448 Nov 13 07:57	4° \mathbb{J} 11'39	0.55315 AU
morning rise	11447 Dec 14 01:28	18° \mathbb{J} 19'39		inferior conj	11448 Nov 14 23:05	3° \mathbb{J} 14'41	-5°49'36
direct	11447 Dec 16 10:10	18° \mathbb{J} 03'49		minimum elong	11448 Nov 14 22:58	3° \mathbb{J} 14'51	5°48'59
morning max el	11447 Dec 25 19:40	22° \mathbb{J} 34'52	19°17'48		11448 Nov 21 09:08	30° \mathbb{R} \mathbb{M}	
asc. node	11447 Dec 26 03:12	22° \mathbb{J} 53'16		morning rise	11448 Nov 23 10:09	29° \mathbb{M} 23'19	
	11447 Dec 31 18:56	0° \mathbb{Z}		direct	11448 Nov 26 08:13	29° \mathbb{M} 02'49	
morning set	11448 Jan 11 18:36	19° \mathbb{Z} 55'33			11448 Dec 01 01:16	0° \mathbb{J}	
	11448 Jan 16 19:39	0° \mathbb{A}		morning max el	11448 Dec 07 06:08	4° \mathbb{J} 13'22	20°32'11
				asc. node	11448 Dec 12 00:15	9° \mathbb{J} 39'57	
					11448 Dec 23 19:33	0° \mathbb{Z}	

morning set	11448 Dec 26 01:38	4° Z 35'17		morning set	11449 Dec 10 12:02	19° Z 21'57	
					11449 Dec 15 11:53	0° Z	
superior conj	11449 Jan 02 13:43	20° Z 04'29	1°22'46	superior conj	11449 Dec 17 14:09	4° Z 26'49	1°34'17
minimum elong	11449 Jan 02 16:11	20° Z 17'00	1°23'14	minimum elong	11449 Dec 17 15:36	4° Z 34'26	1°34'55
	11449 Jan 07 13:42	0° \approx		max. Earth dist.	11449 Dec 21 10:53	12° Z 28'20	1.34339 AU
max. Earth dist.	11449 Jan 07 21:02	0° \approx 35'24	1.36198 AU	evening rise	11449 Dec 25 19:51	21° Z 09'11	
evening rise	11449 Jan 11 17:47	7° \approx 51'45			11449 Dec 30 13:33	0° \approx	
desc. node	11449 Jan 14 09:19	12° \approx 38'40		desc. node	11450 Jan 01 06:11	3° \approx 01'10	
	11449 Jan 24 19:45	0° X			11450 Jan 18 16:45	0° X	
evening max el	11449 Feb 16 06:07	29° X 15'38	26°03'19	evening max el	11450 Jan 29 19:38	12° X 56'42	26°56'59
	11449 Feb 17 00:39	0° Y		retrograde	11450 Feb 12 02:15	20° X 19'49	
retrograde	11449 Feb 28 21:57	6° Y 28'44		evening set	11450 Feb 18 16:00	17° X 46'22	
evening set	11449 Mar 07 01:21	3° Y 58'56		min. Earth dist.	11450 Feb 22 15:36	13° X 52'38	0.65728 AU
asc. node	11449 Mar 09 22:22	1° Y 06'55		inferior conj	11450 Feb 24 18:07	11° X 27'32	-0°01'16
	11449 Mar 10 21:06	30° R X		minimum elong	11450 Feb 24 18:08	11° X 27'27	0°00'58
min. Earth dist.	11449 Mar 11 06:33	29° X 31'13	0.67082 AU	transit middle	11450 Feb 24 18:08	11° X 27'27	0°00'58
inferior conj	11449 Mar 12 21:03	27° X 31'30	0°56'02	transit begin	11450 Feb 24 15:10	11° X 36'01	
minimum elong	11449 Mar 12 19:42	27° X 35'42	0°55'37	transit end	11450 Feb 24 21:06	11° X 18'55	
morning rise	11449 Mar 18 14:44	21° X 44'19		asc. node	11450 Feb 24 19:40	11° X 23'03	
direct	11449 Mar 21 20:00	20° X 45'19		morning rise	11450 Mar 02 21:36	5° X 52'14	
morning max el	11449 Mar 28 11:48	24° X 20'42	18°43'34	direct	11450 Mar 05 16:58	5° X 09'22	
	11449 Apr 02 07:24	0° Y		morning max el	11450 Mar 12 02:21	8° X 31'27	18°07'59
desc. node	11449 Apr 12 10:35	14° Y 54'42			11450 Mar 27 02:30	0° Y	
morning set	11449 Apr 19 04:32	25° Y 25'29		desc. node	11450 Mar 30 07:15	5° Y 10'50	
	11449 Apr 22 02:47	0° Z		morning set	11450 Mar 30 19:28	6° Y 00'21	
max. Earth dist.	11449 May 04 08:10	19° Z 05'51	1.45595 AU				
superior conj	11449 May 05 11:15	20° Z 51'52	-2°06'19	superior conj	11450 Apr 14 18:52	29° Y 55'06	-1°40'09
minimum elong	11449 May 05 05:05	20° Z 27'41	2°06'33	minimum elong	11450 Apr 14 09:26	29° Y 18'03	1°39'32
	11449 May 11 06:44	0° II			11450 Apr 14 20:06	0° Z	
evening rise	11449 May 20 20:22	15° II 13'30		max. Earth dist.	11450 Apr 17 04:10	3° Z 39'43	1.45646 AU
greatest brilliancy	11449 May 27 17:22	26° II 14'22	-0.9m	evening rise	11450 Apr 30 21:24	25° Z 00'12	
	11449 May 30 02:24	0° III			11450 May 04 02:49	0° II	
asc. node	11449 Jun 05 20:09	10° III 04'32		greatest brilliancy	11450 May 13 04:38	13° II 53'46	-0.7m
evening max el	11449 Jun 10 18:02	16° III 01'13	18°37'50	asc. node	11450 May 23 17:15	28° II 15'04	
retrograde	11449 Jun 17 06:59	19° III 34'47		evening max el	11450 May 25 02:22	29° II 43'11	19°20'50
evening set	11449 Jun 20 12:33	18° III 35'22			11450 May 25 09:09	0° III	
inferior conj	11449 Jun 26 04:14	12° III 58'37	3°03'08	retrograde	11450 Jun 01 04:03	3° III 41'42	
minimum elong	11449 Jun 26 05:49	12° III 53'45	3°02'12	evening set	11450 Jun 04 18:14	2° III 26'31	
min. Earth dist.	11449 Jun 28 03:50	10° III 33'28	0.65429 AU		11450 Jun 07 09:54	30° R II	
morning rise	11449 Jul 01 22:14	6° III 37'43		inferior conj	11450 Jun 10 04:05	26° II 35'06	3°15'10
direct	11449 Jul 08 09:42	3° III 55'18		minimum elong	11450 Jun 10 04:32	26° II 33'36	3°14'25
desc. node	11449 Jul 09 10:37	3° III 59'04		min. Earth dist.	11450 Jun 11 12:50	24° II 48'00	0.66936 AU
morning max el	11449 Jul 21 17:45	11° III 47'45	26°59'22	morning rise	11450 Jun 15 14:24	20° II 13'11	
	11449 Aug 05 06:08	0° IV		direct	11450 Jun 21 16:43	17° II 32'55	
	11449 Aug 23 11:27	0° V		desc. node	11450 Jun 26 07:44	18° II 48'00	
morning set	11449 Aug 26 10:00	5° V 32'37		morning max el	11450 Jul 04 04:31	25° II 01'30	25°49'23
max. Earth dist.	11449 Aug 30 17:01	14° V 00'28	1.33798 AU		11450 Jul 08 16:43	0° VI	
asc. node	11449 Sep 01 20:23	18° V 22'55			11450 Jul 29 17:29	0° IV	
superior conj	11449 Sep 03 23:01	22° V 46'43	0°20'28	morning set	11450 Aug 09 05:22	18° IV 08'06	
minimum elong	11449 Sep 03 21:59	22° V 41'16	0°20'06	max. Earth dist.	11450 Aug 12 23:13	25° IV 08'27	1.35594 AU
	11449 Sep 07 08:46	0° VI			11450 Aug 15 11:27	0° V	
evening rise	11449 Sep 11 05:37	8° VI 13'35		superior conj	11450 Aug 18 16:39	6° V 24'23	-0°09'51
	11449 Sep 22 16:14	0° VII		minimum elong	11450 Aug 18 17:15	6° V 27'26	0°10'04
evening max el	11449 Oct 01 12:12	11° VII 30'33	21°39'58	behind sun begin	11450 Aug 18 12:24	6° V 03'00	
desc. node	11449 Oct 05 07:54	14° VII 42'47		behind sun end	11450 Aug 18 22:05	6° V 51'55	
retrograde	11449 Oct 13 20:42	17° VII 39'12		asc. node	11450 Aug 19 17:07	8° V 28'25	
evening set	11449 Oct 16 17:23	17° VII 20'37		evening rise	11450 Aug 26 13:03	22° V 32'45	
inferior conj	11449 Oct 25 16:47	13° VII 24'30	-5°19'40		11450 Aug 30 05:36	0° VI	
minimum elong	11449 Oct 25 08:45	13° VII 35'43	5°17'49	evening max el	11450 Sep 13 13:56	22° VI 13'19	20°15'44
min. Earth dist.	11449 Oct 25 14:34	13° VII 27'35	0.54611 AU	desc. node	11450 Sep 22 05:16	27° VI 22'59	
morning rise	11449 Nov 03 01:15	9° VII 36'36		retrograde	11450 Sep 24 09:23	27° VI 35'36	
direct	11449 Nov 06 17:26	9° VII 07'16		evening set	11450 Sep 26 09:35	27° VI 25'18	
morning max el	11449 Nov 19 03:06	15° VII 01'14	22°07'27	inferior conj	11450 Oct 05 10:29	23° VI 27'37	-3°55'37
asc. node	11449 Nov 28 21:12	27° VII 25'18		minimum elong	11450 Oct 05 00:50	23° VI 41'53	3°52'22
	11449 Nov 30 11:01	0° X		min. Earth dist.	11450 Oct 06 23:02	22° VI 33'39	0.54840 AU

morning rise	11450 Oct 13 15:14	19° Ω 21'46			11451 Sep 22 02:12	30° \mathbb{R} \mathbb{M}		
direct	11450 Oct 18 03:01	18° Ω 38'12		morning rise	11451 Sep 23 16:50	29° \mathbb{M} 16'31		
morning max el	11450 Oct 31 15:27	25° Ω 14'12	23°54'38	direct	11451 Sep 29 00:23	28° \mathbb{M} 11'21		
	11450 Nov 05 02:01	0° \mathbb{M}			11451 Oct 05 21:38	0° Ω		
asc. node	11450 Nov 15 18:06	15° \mathbb{M} 55'11		morning max el	11451 Oct 13 03:00	5° Ω 21'45	25°37'47	
	11450 Nov 23 00:32	0° \mathbb{A}			11451 Oct 30 22:12	0° \mathbb{M}		
morning set	11450 Nov 24 23:48	4° \mathbb{A} 09'13		asc. node	11451 Nov 02 14:57	4° \mathbb{M} 58'29		
				morning set	11451 Nov 09 11:15	18° \mathbb{M} 52'26		
					11451 Nov 14 13:16	0° \mathbb{A}		
superior conj	11450 Dec 01 20:34	19° \mathbb{A} 04'02	1°39'03	superior conj	11451 Nov 16 06:39	3° \mathbb{A} 49'13	1°37'37	
minimum elong	11450 Dec 01 20:51	19° \mathbb{A} 05'32	1°39'45	minimum elong	11451 Nov 16 05:51	3° \mathbb{A} 44'44	1°38'11	
max. Earth dist.	11450 Dec 04 08:28	24° \mathbb{A} 26'41	1.32892 AU	max. Earth dist.	11451 Nov 17 12:56	6° \mathbb{A} 36'20	1.31919 AU	
	11450 Dec 06 23:46	0° \mathbb{B}		evening rise	11451 Nov 23 08:40	19° \mathbb{A} 06'38		
evening rise	11450 Dec 09 09:49	4° \mathbb{B} 56'41			11451 Nov 28 19:42	0° \mathbb{B}		
desc. node	11450 Dec 19 03:08	23° \mathbb{B} 07'34		desc. node	11451 Dec 06 00:12	12° \mathbb{B} 51'02		
	11450 Dec 23 05:58	0° \approx			11451 Dec 17 14:34	0° \approx		
evening max el	11451 Jan 12 08:09	26° \approx 18'00	27°27'22	evening max el	11451 Dec 25 17:54	9° \approx 07'51	27°28'04	
	11451 Jan 16 17:01	0° \mathbb{H}		retrograde	11452 Jan 08 14:48	16° \approx 26'03		
retrograde	11451 Jan 26 00:13	3° \mathbb{H} 42'03		evening set	11452 Jan 15 14:26	14° \approx 07'28		
evening set	11451 Feb 01 21:19	1° \mathbb{H} 11'46		min. Earth dist.	11452 Jan 19 07:56	11° \approx 11'10	0.62060 AU	
	11451 Feb 03 09:18	30° \mathbb{R} \approx		inferior conj	11452 Jan 22 07:09	8° \approx 26'06	-2°22'31	
min. Earth dist.	11451 Feb 05 16:36	27° \approx 49'21	0.64029 AU	minimum elong	11452 Jan 22 11:59	8° \approx 14'51	2°20'00	
inferior conj	11451 Feb 08 06:29	25° \approx 08'11	-1°08'00	morning rise	11452 Jan 29 12:09	3° \approx 22'20		
minimum elong	11451 Feb 08 08:38	25° \approx 02'36	1°06'39	asc. node	11452 Jan 29 14:12	3° \approx 20'42		
asc. node	11451 Feb 11 16:58	21° \approx 49'19		direct	11452 Jan 31 17:17	3° \approx 00'34		
morning rise	11451 Feb 14 21:59	19° \approx 47'15		morning max el	11452 Feb 07 12:55	6° \approx 28'17	17°48'34	
direct	11451 Feb 17 09:06	19° \approx 16'51			11452 Feb 22 19:10	0° \mathbb{H}		
morning max el	11451 Feb 23 19:47	22° \approx 36'50	17°49'25	morning set	11452 Feb 23 07:52	0° \mathbb{H} 56'33		
	11451 Mar 01 15:52	0° \mathbb{H}		desc. node	11452 Mar 03 00:35	16° \mathbb{H} 14'24		
morning set	11451 Mar 12 14:27	17° \mathbb{H} 56'28						
desc. node	11451 Mar 17 03:54	25° \mathbb{H} 38'42		superior conj	11452 Mar 05 14:20	20° \mathbb{H} 37'58	-0°19'36	
	11451 Mar 19 18:30	0° \mathbb{Y}		minimum elong	11452 Mar 05 12:28	20° \mathbb{H} 30'05	0°19'08	
superior conj	11451 Mar 25 16:42	9° \mathbb{Y} 42'36	-1°01'25		11452 Mar 11 05:32	0° \mathbb{Y}		
minimum elong	11451 Mar 25 10:10	9° \mathbb{Y} 16'09	1°00'34	max. Earth dist.	11452 Mar 12 15:05	2° \mathbb{Y} 16'22	1.43628 AU	
max. Earth dist.	11451 Mar 30 23:05	18° \mathbb{Y} 07'51	1.44964 AU	evening rise	11452 Mar 20 00:22	13° \mathbb{Y} 59'03		
	11451 Apr 07 13:26	0° \mathbb{B}			11452 Mar 30 14:08	0° \mathbb{B}		
evening rise	11451 Apr 10 09:30	4° \mathbb{B} 21'47		evening max el	11452 Apr 20 02:37	27° \mathbb{B} 12'10	21°29'52	
	11451 Apr 27 14:15	0° \mathbb{I}			11452 Apr 23 05:34	0° \mathbb{I}		
evening max el	11451 May 08 05:15	13° \mathbb{I} 27'05	20°19'14	asc. node	11452 Apr 26 11:40	1° \mathbb{I} 55'42		
asc. node	11451 May 10 14:26	15° \mathbb{I} 36'55		retrograde	11452 Apr 29 01:09	2° \mathbb{I} 27'12		
retrograde	11451 May 16 02:49	18° \mathbb{I} 00'46		evening set	11452 May 03 11:00	0° \mathbb{I} 40'15		
evening set	11451 May 20 02:20	16° \mathbb{I} 29'37			11452 May 04 05:11	30° \mathbb{R} \mathbb{B}		
inferior conj	11451 May 25 09:19	10° \mathbb{I} 25'12	3°13'58	inferior conj	11452 May 08 17:35	24° \mathbb{B} 24'48	3°01'29	
minimum elong	11451 May 25 08:42	10° \mathbb{I} 27'18	3°13'17	minimum elong	11452 May 08 16:07	24° \mathbb{B} 29'56	3°00'44	
min. Earth dist.	11451 May 26 03:53	9° \mathbb{I} 21'43	0.67993 AU	min. Earth dist.	11452 May 08 22:49	24° \mathbb{B} 06'34	0.68592 AU	
morning rise	11451 May 30 14:46	4° \mathbb{I} 05'49		morning rise	11452 May 13 21:00	18° \mathbb{B} 10'04		
direct	11451 Jun 05 05:28	1° \mathbb{I} 36'19		direct	11452 May 18 22:43	15° \mathbb{B} 57'42		
desc. node	11451 Jun 13 04:45	5° \mathbb{I} 17'23		morning max el	11452 May 29 00:40	21° \mathbb{B} 56'13	22°54'36	
morning max el	11451 Jun 16 14:20	8° \mathbb{I} 25'33	24°24'30	desc. node	11452 May 30 01:44	23° \mathbb{B} 01'03		
	11451 Jul 03 12:39	0° \mathbb{B}			11452 Jun 05 00:13	0° \mathbb{I}		
morning set	11451 Jul 22 06:28	29° \mathbb{B} 52'14			11452 Jun 25 19:36	0° \mathbb{B}		
	11451 Jul 22 08:15	0° \mathbb{Q}		morning set	11452 Jul 02 08:10	10° \mathbb{B} 31'13		
max. Earth dist.	11451 Jul 25 21:34	6° \mathbb{Q} 17'58	1.37751 AU	max. Earth dist.	11452 Jul 06 18:51	18° \mathbb{B} 00'02	1.40064 AU	
					11452 Jul 13 14:17	0° \mathbb{Q}		
superior conj	11451 Aug 01 22:57	19° \mathbb{Q} 27'57	-0°43'00	superior conj	11452 Jul 14 13:50	1° \mathbb{Q} 47'02	-1°16'41	
minimum elong	11451 Aug 02 01:50	19° \mathbb{Q} 41'51	0°43'00	minimum elong	11452 Jul 14 19:10	2° \mathbb{Q} 11'24	1°16'33	
asc. node	11451 Aug 06 13:53	28° \mathbb{Q} 30'52		asc. node	11452 Jul 23 10:42	18° \mathbb{Q} 25'46		
	11451 Aug 07 07:50	0° \mathbb{M}		evening rise	11452 Jul 24 08:22	20° \mathbb{Q} 09'06		
evening rise	11451 Aug 10 15:02	6° \mathbb{M} 34'15			11452 Jul 29 14:23	0° \mathbb{M}		
	11451 Aug 24 00:20	0° Ω		evening max el	11452 Aug 09 08:48	15° \mathbb{M} 58'20	18°29'44	
evening max el	11451 Aug 27 05:45	3° Ω 44'08	19°12'05	retrograde	11452 Aug 17 03:14	19° \mathbb{M} 52'28		
retrograde	11451 Sep 05 09:04	8° Ω 17'17		evening set	11452 Aug 19 04:25	19° \mathbb{M} 37'00		
evening set	11451 Sep 07 05:21	8° Ω 06'56		desc. node	11452 Aug 26 00:01	15° \mathbb{M} 49'23		
desc. node	11451 Sep 09 02:38	7° Ω 36'19		inferior conj	11452 Aug 26 22:19	15° \mathbb{M} 06'06	-0°17'15	
inferior conj	11451 Sep 15 17:58	3° Ω 56'04	-2°04'25	minimum elong	11452 Aug 26 21:38	15° \mathbb{M} 07'25	0°17'14	
minimum elong	11451 Sep 15 12:31	4° Ω 05'12	2°02'20					
min. Earth dist.	11451 Sep 18 11:26	2° Ω 06'46	0.55980 AU					

min. Earth dist.	11452 Aug 30 05:13	12° \mathbb{M} 32'32	0.57813 AU	morning rise	11453 Aug 16 00:18	21° Ω 13'28	
morning rise	11452 Sep 03 11:22	9° \mathbb{M} 49'33		direct	11453 Aug 22 12:12	19° Ω 12'37	
direct	11452 Sep 09 11:56	8° \mathbb{M} 17'04		morning max el	11453 Sep 05 20:00	27° Ω 05'24	27°47'23
morning max el	11452 Sep 23 19:45	15° \mathbb{M} 52'25	26°59'36		11453 Sep 08 14:34	0° \mathbb{M}	
	11452 Oct 05 08:01	0° $\underline{\Omega}$			11453 Sep 28 23:48	0° $\underline{\Omega}$	
asc. node	11452 Oct 19 11:45	24° $\underline{\Omega}$ 25'48		asc. node	11453 Oct 06 08:32	14° $\underline{\Omega}$ 10'22	
	11452 Oct 22 05:27	0° \mathbb{M}		morning set	11453 Oct 08 02:12	17° $\underline{\Omega}$ 45'47	
morning set	11452 Oct 23 20:38	3° \mathbb{M} 26'08			11453 Oct 13 18:11	0° \mathbb{M}	
				max. Earth dist.	11453 Oct 14 06:25	1° \mathbb{M} 07'42	1.31436 AU
superior conj	11452 Oct 30 18:18	18° \mathbb{M} 35'14	1°30'22	superior conj	11453 Oct 15 05:39	3° \mathbb{M} 16'43	1°17'32
minimum elong	11452 Oct 30 16:38	18° \mathbb{M} 25'58	1°30'42	minimum elong	11453 Oct 15 03:29	3° \mathbb{M} 04'41	1°17'35
max. Earth dist.	11452 Oct 30 21:29	18° \mathbb{M} 53'00	1.31433 AU	evening rise	11453 Oct 21 22:44	18° \mathbb{M} 04'12	
	11452 Nov 04 22:22	0° \mathbb{M}			11453 Oct 27 17:48	0° \mathbb{M}	
evening rise	11452 Nov 06 13:43	3° \mathbb{M} 31'08		desc. node	11453 Nov 08 18:31	20° \mathbb{M} 26'43	
	11452 Nov 20 14:57	0° \mathbb{M}			11453 Nov 16 08:29	0° \mathbb{M}	
desc. node	11452 Nov 21 21:20	2° \mathbb{M} 01'37		evening max el	11453 Nov 18 18:24	2° \mathbb{M} 26'38	25°48'23
evening max el	11452 Dec 06 22:11	21° \mathbb{M} 13'27	26°54'53	retrograde	11453 Dec 02 15:48	9° \mathbb{M} 27'46	
retrograde	11452 Dec 20 20:31	28° \mathbb{M} 22'50		evening set	11453 Dec 08 20:31	7° \mathbb{M} 58'10	
evening set	11452 Dec 27 15:39	26° \mathbb{M} 24'51		min. Earth dist.	11453 Dec 13 06:53	5° \mathbb{M} 21'54	0.57858 AU
min. Earth dist.	11452 Dec 31 12:32	23° \mathbb{M} 45'42	0.59940 AU	inferior conj	11453 Dec 16 07:21	3° \mathbb{M} 14'35	-4°52'12
inferior conj	11453 Jan 03 16:36	21° \mathbb{M} 11'32	-3°40'25	minimum elong	11453 Dec 16 15:28	3° \mathbb{M} 00'16	4°49'35
minimum elong	11453 Jan 04 00:00	20° \mathbb{M} 56'28	3°37'16		11453 Dec 21 11:59	30° \mathbb{M} 27'47	
morning rise	11453 Jan 11 11:07	16° \mathbb{M} 28'05		morning rise	11453 Dec 24 12:55	28° \mathbb{M} 53'46	
direct	11453 Jan 13 13:36	16° \mathbb{M} 11'18		direct	11453 Dec 26 17:35	28° \mathbb{M} 38'35	
asc. node	11453 Jan 15 11:24	16° \mathbb{M} 25'41			11453 Dec 31 15:34	0° \mathbb{M}	
morning max el	11453 Jan 21 02:18	19° \mathbb{M} 56'00	18°06'44	asc. node	11454 Jan 02 08:34	1° \mathbb{M} 07'07	
	11453 Jan 28 13:03	0° \mathbb{M}		morning max el	11454 Jan 04 08:07	2° \mathbb{M} 49'32	18°45'31
morning set	11453 Feb 05 17:27	14° \mathbb{M} 41'31		morning set	11454 Jan 20 14:06	28° \mathbb{M} 55'46	
	11453 Feb 14 00:13	0° \mathbb{M}			11454 Jan 21 03:16	0° \mathbb{M}	
superior conj	11453 Feb 15 12:03	2° \mathbb{M} 40'58	0°18'28	superior conj	11454 Jan 29 05:41	15° \mathbb{M} 39'19	0°49'34
minimum elong	11453 Feb 15 13:30	2° \mathbb{M} 47'26	0°18'37	minimum elong	11454 Jan 29 08:32	15° \mathbb{M} 52'44	0°49'42
desc. node	11453 Feb 17 21:18	6° \mathbb{M} 54'10		desc. node	11454 Feb 04 18:00	27° \mathbb{M} 33'59	
max. Earth dist.	11453 Feb 23 03:06	15° \mathbb{M} 53'21	1.41775 AU	max. Earth dist.	11454 Feb 05 10:48	28° \mathbb{M} 48'06	1.39614 AU
evening rise	11453 Feb 28 06:50	24° \mathbb{M} 21'41			11454 Feb 06 03:12	0° \mathbb{M}	
	11453 Mar 03 20:00	0° \mathbb{M}		evening rise	11454 Feb 09 10:13	5° \mathbb{M} 39'24	
	11453 Mar 24 12:16	0° \mathbb{M}			11454 Feb 24 22:13	0° \mathbb{M}	
evening max el	11453 Apr 02 19:31	10° \mathbb{M} 59'29	22°48'16	evening max el	11454 Mar 16 09:37	24° \mathbb{M} 48'33	24°08'45
retrograde	11453 Apr 12 21:34	16° \mathbb{M} 56'50			11454 Mar 22 21:43	0° \mathbb{M}	
asc. node	11453 Apr 13 08:56	16° \mathbb{M} 55'46		retrograde	11454 Mar 27 14:47	1° \mathbb{M} 23'47	
evening set	11453 Apr 17 18:39	14° \mathbb{M} 54'54		asc. node	11454 Mar 31 06:15	0° \mathbb{M} 22'42	
inferior conj	11453 Apr 23 02:52	8° \mathbb{M} 30'52	2°38'51		11454 Mar 31 20:48	30° \mathbb{M} 27'47	
minimum elong	11453 Apr 23 00:51	8° \mathbb{M} 37'52	2°38'01	evening set	11454 Apr 01 23:41	29° \mathbb{M} 08'32	
min. Earth dist.	11453 Apr 22 19:26	8° \mathbb{M} 56'40	0.68732 AU	min. Earth dist.	11454 Apr 06 15:38	23° \mathbb{M} 45'49	0.68423 AU
morning rise	11453 Apr 28 06:57	2° \mathbb{M} 22'14		inferior conj	11454 Apr 07 11:17	22° \mathbb{M} 39'20	2°06'32
direct	11453 May 02 19:22	0° \mathbb{M} 30'36		minimum elong	11454 Apr 07 09:07	22° \mathbb{M} 46'40	2°05'41
morning max el	11453 May 11 14:56	5° \mathbb{M} 36'58	21°28'37	morning rise	11454 Apr 12 18:38	16° \mathbb{M} 37'55	
desc. node	11453 May 16 22:37	11° \mathbb{M} 39'15		direct	11454 Apr 16 18:06	15° \mathbb{M} 07'58	
	11453 May 30 05:19	0° \mathbb{M}		morning max el	11454 Apr 24 12:02	19° \mathbb{M} 29'40	20°12'57
morning set	11453 Jun 12 07:48	20° \mathbb{M} 00'20			11454 May 03 02:59	0° \mathbb{M}	
	11453 Jun 18 12:41	0° \mathbb{M}		desc. node	11454 May 03 19:25	0° \mathbb{M} 56'36	
max. Earth dist.	11453 Jun 18 21:33	0° \mathbb{M} 36'24	1.42249 AU	morning set	11454 May 22 11:06	28° \mathbb{M} 37'59	
					11454 May 23 08:21	0° \mathbb{M}	
superior conj	11453 Jun 26 08:48	13° \mathbb{M} 11'57	-1°46'54	max. Earth dist.	11454 Jun 01 07:02	14° \mathbb{M} 03'26	1.44035 AU
minimum elong	11453 Jun 26 15:29	13° \mathbb{M} 40'50	1°46'56				
	11453 Jul 05 19:47	0° \mathbb{M}		superior conj	11454 Jun 07 04:06	23° \mathbb{M} 34'50	-2°07'49
evening rise	11453 Jul 07 13:12	3° \mathbb{M} 08'09		minimum elong	11454 Jun 07 08:46	23° \mathbb{M} 54'00	2°08'19
asc. node	11453 Jul 10 07:35	8° \mathbb{M} 09'16			11454 Jun 11 01:02	0° \mathbb{M}	
evening max el	11453 Jul 23 19:02	28° \mathbb{M} 46'59	18°07'43	evening rise	11454 Jun 20 00:42	15° \mathbb{M} 19'34	
	11453 Jul 25 03:26	0° \mathbb{M}		asc. node	11454 Jun 27 04:30	27° \mathbb{M} 35'56	
retrograde	11453 Jul 30 15:54	2° \mathbb{M} 16'56			11454 Jun 28 15:23	0° \mathbb{M}	
evening set	11453 Aug 02 00:35	1° \mathbb{M} 52'30		evening max el	11454 Jul 07 08:33	12° \mathbb{M} 00'12	18°05'01
	11453 Aug 05 10:51	30° \mathbb{M} 27'47		retrograde	11454 Jul 13 18:52	15° \mathbb{M} 20'51	
inferior conj	11453 Aug 08 23:56	27° \mathbb{M} 00'50	1°08'46	evening set	11454 Jul 16 11:30	14° \mathbb{M} 44'29	
minimum elong	11453 Aug 09 01:58	26° \mathbb{M} 56'12	1°07'37	inferior conj	11454 Jul 22 19:32	9° \mathbb{M} 33'57	2°10'02
min. Earth dist.	11453 Aug 12 06:35	24° \mathbb{M} 02'25	0.60017 AU	minimum elong	11454 Jul 22 22:13	9° \mathbb{M} 26'54	2°08'42
desc. node	11453 Aug 12 21:21	23° \mathbb{M} 30'57					

min. Earth dist.	11454 Jul 25 17:11	6°♌33'11	0.62284 AU	min. Earth dist.	11455 Jul 08 13:13	19°♊54'26	0.64375 AU
morning rise	11454 Jul 29 06:46	3°♌26'11		morning rise	11455 Jul 12 04:34	16°♊19'00	
desc. node	11454 Jul 30 18:39	2°♌28'30		desc. node	11455 Jul 17 15:53	13°♊44'12	
direct	11454 Aug 04 23:19	1°♌01'30		direct	11455 Jul 18 19:30	13°♊39'39	
morning max el	11454 Aug 19 02:27	9°♌03'49	27°56'26	morning max el	11455 Aug 01 12:21	21°♊40'11	27°28'58
	11454 Sep 04 07:17	0°♍			11455 Aug 08 18:37	0°♌	
	11454 Sep 21 04:59	0°♌			11455 Aug 28 11:43	0°♍	
morning set	11454 Sep 22 01:53	1°♌45'56		morning set	11455 Sep 05 17:09	15°♍19'40	
asc. node	11454 Sep 23 05:16	4°♌06'30		asc. node	11455 Sep 10 01:57	24°♍09'17	
max. Earth dist.	11454 Sep 27 11:42	13°♌09'18	1.31939 AU	max. Earth dist.	11455 Sep 10 09:30	24°♍48'26	1.32965 AU
					11455 Sep 12 20:45	0°♌	
superior conj	11454 Sep 29 14:54	17°♌48'17	0°59'21	superior conj	11455 Sep 13 19:59	2°♌03'56	0°36'02
minimum elong	11454 Sep 29 12:42	17°♌36'13	0°59'08	minimum elong	11455 Sep 13 18:20	1°♌55'05	0°35'41
	11454 Oct 05 04:09	0°♍			11455 Sep 20 20:58	17°♌13'55	
evening rise	11454 Oct 06 09:47	2°♍40'19		evening rise	11455 Sep 27 03:15	0°♍	
	11454 Oct 20 23:45	0°♎			11455 Oct 12 17:36	22°♍57'51	22°35'47
desc. node	11454 Oct 26 15:45	7°♎48'55		evening max el	11455 Oct 13 13:03	23°♍43'54	
evening max el	11454 Oct 31 06:52	12°♎53'02	24°16'52	desc. node	11455 Oct 25 18:34	29°♍26'53	
retrograde	11454 Nov 13 23:25	19°♎44'06		retrograde	11455 Oct 29 09:26	28°♍58'11	
evening set	11454 Nov 19 01:24	18°♎47'11		evening set	11455 Nov 06 01:23	25°♍31'46	0.54898 AU
min. Earth dist.	11454 Nov 24 17:53	15°♎54'56	0.56072 AU	min. Earth dist.	11455 Nov 07 01:43	24°♍57'14	-5°44'21
inferior conj	11454 Nov 27 01:34	14°♎29'00	-5°40'53	inferior conj	11455 Nov 06 21:53	25°♍02'40	5°43'30
minimum elong	11454 Nov 27 05:56	14°♎22'14	5°39'48	minimum elong	11455 Nov 15 11:53	21°♍09'23	
morning rise	11454 Dec 05 12:34	10°♎29'16		morning rise	11455 Nov 18 17:04	20°♍45'46	
direct	11454 Dec 08 02:00	10°♎12'05		direct	11455 Nov 30 07:14	26°♍15'21	21°10'30
morning max el	11454 Dec 18 02:38	14°♎58'49	19°46'41	morning max el	11455 Dec 03 18:37	0°♎	
asc. node	11454 Dec 20 05:40	17°♎13'15		asc. node	11455 Dec 07 02:40	4°♎26'36	
	11454 Dec 28 18:48	0°♏		morning set	11455 Dec 20 02:56	28°♎12'09	
morning set	11455 Jan 04 18:12	13°♏29'00			11455 Dec 20 23:37	0°♏	
superior conj	11455 Jan 12 14:29	29°♏19'51	1°12'50	superior conj	11455 Dec 27 10:12	13°♏29'26	1°28'30
minimum elong	11455 Jan 12 17:21	29°♏33'59	1°13'09	minimum elong	11455 Dec 27 12:16	13°♏40'07	1°29'02
	11455 Jan 12 22:37	0°♐			11456 Jan 01 02:35	22°♏58'07	1.35362 AU
max. Earth dist.	11455 Jan 18 16:55	11°♐03'53	1.37399 AU	max. Earth dist.	11456 Jan 04 17:58	0°♐	
evening rise	11455 Jan 22 10:19	17°♐50'53		evening rise	11456 Jan 05 03:57	0°♐46'59	
desc. node	11455 Jan 22 14:46	18°♐10'41		desc. node	11456 Jan 09 11:35	8°♐39'31	
	11455 Jan 29 12:53	0°♑			11456 Jan 22 15:17	0°♑	
	11455 Feb 19 05:54	0°♑		evening max el	11456 Feb 09 12:29	22°♑26'00	26°28'32
evening max el	11455 Feb 26 22:55	8°♑38'55	25°24'33	retrograde	11456 Feb 22 11:38	29°♑45'09	
retrograde	11455 Mar 11 03:50	15°♑42'14		evening set	11456 Feb 28 19:31	27°♑13'14	
evening set	11455 Mar 17 00:34	13°♑16'34		min. Earth dist.	11456 Mar 03 22:14	22°♑59'54	0.66551 AU
asc. node	11455 Mar 18 03:34	12°♑14'24		asc. node	11456 Mar 04 00:54	22°♑52'01	
min. Earth dist.	11455 Mar 21 09:17	8°♑28'53	0.67689 AU	inferior conj	11456 Mar 05 17:50	20°♑48'22	0°32'56
inferior conj	11455 Mar 22 16:57	6°♑46'39	1°24'36	minimum elong	11456 Mar 05 16:59	20°♑50'57	0°32'46
minimum elong	11455 Mar 22 15:08	6°♑52'32	1°23'56	morning rise	11456 Mar 11 15:24	15°♑05'45	
morning rise	11455 Mar 28 06:09	0°♑53'46		direct	11456 Mar 14 16:11	14°♑14'07	
	11455 Mar 30 01:47	30°♒		morning max el	11456 Mar 21 04:25	17°♑42'45	18°26'14
direct	11455 Mar 31 17:38	29°♒44'18			11456 Mar 30 13:42	0°♑	
	11455 Apr 02 10:30	0°♑		desc. node	11456 Apr 06 12:49	10°♑49'24	
morning max el	11455 Apr 07 16:51	3°♑33'11	19°11'31	morning set	11456 Apr 10 11:28	17°♑04'03	
greatest brilliancy	11455 Apr 20 15:49	20°♑41'23	-0.7m		11456 Apr 18 16:03	0°♒	
desc. node	11455 Apr 20 16:08	20°♑42'35		superior conj	11456 Apr 26 07:51	11°♒59'52	-1°57'20
	11455 Apr 26 19:02	0°♒		minimum elong	11456 Apr 25 23:26	11°♒26'59	1°57'11
morning set	11455 May 01 13:04	7°♒18'52		max. Earth dist.	11456 Apr 26 16:49	12°♒34'55	1.45710 AU
max. Earth dist.	11455 May 14 22:03	28°♒07'44	1.45226 AU		11456 May 07 19:53	0°♒	
	11455 May 16 02:35	0°♓		evening rise	11456 May 12 03:25	6°♒47'29	
superior conj	11455 May 18 00:31	3°♓01'20	-2°12'40	greatest brilliancy	11456 May 21 15:16	21°♓42'43	-0.8m
minimum elong	11455 May 17 22:37	2°♓53'51	2°13'16		11456 May 27 03:11	0°♓	
evening rise	11455 Jun 01 14:09	26°♓33'13		asc. node	11456 May 30 22:33	5°♓12'51	
	11455 Jun 03 16:23	0°♔		evening max el	11456 Jun 03 09:05	9°♓09'54	18°54'13
asc. node	11455 Jun 14 01:29	16°♓39'45		retrograde	11456 Jun 10 02:30	12°♓52'28	
evening max el	11455 Jun 20 22:08	25°♓30'08	18°20'47	evening set	11456 Jun 13 11:39	11°♓46'30	
retrograde	11455 Jun 27 07:39	28°♓55'14		inferior conj	11456 Jun 19 00:29	6°♓03'37	3°09'58
evening set	11455 Jun 30 08:22	28°♓04'46		minimum elong	11456 Jun 19 01:36	6°♓00'06	3°09'09
inferior conj	11455 Jul 06 04:58	22°♓37'19	2°49'07	min. Earth dist.	11456 Jun 20 17:50	3°♓53'26	0.66125 AU
minimum elong	11455 Jul 06 07:07	22°♓31'03	2°48'01				

	11456 Jun 24 06:43	30° $\mathbb{R}\mathbb{H}$		evening set	11457 May 28 18:37	25° $\mathbb{H}43'10$	
morning rise	11456 Jun 24 14:53	29° $\mathbb{H}41'50$		inferior conj	11457 Jun 03 02:56	19° $\mathbb{H}46'09$	3°16'06
direct	11456 Jun 30 23:01	26° $\mathbb{H}58'50$		minimum elong	11457 Jun 03 02:55	19° $\mathbb{H}46'11$	3°15'25
desc. node	11456 Jul 03 13:02	27° $\mathbb{H}22'17$		min. Earth dist.	11457 Jun 04 05:31	18° $\mathbb{H}17'19$	0.67448 AU
	11456 Jul 08 14:03	0° \mathbb{S}		morning rise	11457 Jun 08 10:52	13° $\mathbb{H}25'15$	
morning max el	11456 Jul 13 23:07	4° $\mathbb{S}43'07$	26°31'58	direct	11457 Jun 14 08:33	10° $\mathbb{H}48'41$	
	11456 Aug 02 06:22	0° \mathbb{Q}		desc. node	11457 Jun 20 10:09	12° $\mathbb{H}57'28$	
morning set	11456 Aug 18 20:54	28° $\mathbb{Q}19'21$		morning max el	11457 Jun 26 09:17	18° $\mathbb{H}01'23$	25°14'27
	11456 Aug 19 18:09	0° \mathbb{P}			11457 Jul 06 10:34	0° \mathbb{S}	
max. Earth dist.	11456 Aug 22 21:18	6° $\mathbb{P}04'27$	1.34506 AU		11457 Jul 26 07:01	0° \mathbb{Q}	
asc. node	11456 Aug 26 22:40	14° $\mathbb{P}15'07$		morning set	11457 Aug 01 09:02	10° $\mathbb{Q}33'56$	
				max. Earth dist.	11457 Aug 04 23:41	17° $\mathbb{Q}10'07$	1.36485 AU
superior conj	11456 Aug 27 18:38	15° $\mathbb{P}58'01$	0°08'05				
minimum elong	11456 Aug 27 18:12	15° $\mathbb{P}55'48$	0°07'46	superior conj	11457 Aug 11 07:52	29° $\mathbb{Q}22'08$	-0°23'39
behind sun begin	11456 Aug 27 13:02	15° $\mathbb{P}29'07$		minimum elong	11457 Aug 11 09:23	29° $\mathbb{Q}29'36$	0°23'48
behind sun end	11456 Aug 27 23:22	16° $\mathbb{P}22'32$			11457 Aug 11 15:30	0° \mathbb{P}	
	11456 Sep 03 11:15	0° \mathbb{L}		asc. node	11457 Aug 13 19:24	4° $\mathbb{P}19'40$	
evening rise	11456 Sep 04 06:26	1° $\mathbb{L}40'20$		evening rise	11457 Aug 19 11:51	15° $\mathbb{P}52'44$	
	11456 Sep 20 12:20	0° \mathbb{M}			11457 Aug 26 18:41	0° \mathbb{L}	
evening max el	11456 Sep 23 12:03	3° $\mathbb{M}18'50$	21°01'55	evening max el	11457 Sep 05 19:50	14° $\mathbb{L}21'00$	19°45'57
desc. node	11456 Sep 29 10:24	7° $\mathbb{M}43'23$		retrograde	11457 Sep 15 21:30	19° $\mathbb{L}21'41$	
retrograde	11456 Oct 05 05:44	9° $\mathbb{M}08'20$		desc. node	11457 Sep 16 07:47	19° $\mathbb{L}21'11$	
evening set	11456 Oct 07 15:33	8° $\mathbb{M}54'38$		evening set	11457 Sep 17 18:40	19° $\mathbb{L}11'58$	
inferior conj	11456 Oct 16 17:34	4° $\mathbb{M}59'53$	-4°49'29	inferior conj	11457 Sep 26 15:37	15° $\mathbb{L}09'39$	-3°09'40
minimum elong	11456 Oct 16 07:51	5° $\mathbb{M}13'35$	4°46'47	minimum elong	11457 Sep 26 07:21	15° $\mathbb{L}22'26$	3°06'36
min. Earth dist.	11456 Oct 17 08:36	4° $\mathbb{M}38'38$	0.54593 AU	min. Earth dist.	11457 Sep 28 18:06	13° $\mathbb{L}51'41$	0.55228 AU
morning rise	11456 Oct 25 00:30	1° $\mathbb{M}06'46$		morning rise	11457 Oct 04 18:21	10° $\mathbb{L}51'07$	
direct	11456 Oct 29 01:14	0° $\mathbb{M}31'52$		direct	11457 Oct 09 14:48	9° $\mathbb{L}59'21$	
morning max el	11456 Nov 10 23:29	6° $\mathbb{M}44'33$	22°52'20	morning max el	11457 Oct 23 10:20	16° $\mathbb{L}50'11$	24°40'11
asc. node	11456 Nov 22 23:37	22° $\mathbb{M}32'13$			11457 Nov 03 02:24	0° \mathbb{M}	
	11456 Nov 27 03:55	0° \mathbb{X}		asc. node	11457 Nov 09 20:29	11° $\mathbb{M}17'23$	
morning set	11456 Dec 03 14:09	12° $\mathbb{X}59'15$		morning set	11457 Nov 18 02:00	27° $\mathbb{M}45'19$	
					11457 Nov 19 03:02	0° \mathbb{X}	
superior conj	11456 Dec 10 13:29	27° $\mathbb{X}58'28$	1°37'05				
minimum elong	11456 Dec 10 14:26	28° $\mathbb{X}03'34$	1°37'46	superior conj	11457 Nov 24 21:43	12° $\mathbb{X}39'33$	1°39'11
	11456 Dec 11 12:16	0° \mathbb{Z}		minimum elong	11457 Nov 24 21:31	12° $\mathbb{X}38'26$	1°39'50
max. Earth dist.	11456 Dec 13 19:42	4° $\mathbb{Z}51'46$	1.33673 AU	max. Earth dist.	11457 Nov 26 20:45	16° $\mathbb{X}55'57$	1.32419 AU
evening rise	11456 Dec 18 11:31	14° $\mathbb{Z}18'07$		evening rise	11457 Dec 02 05:37	28° $\mathbb{X}15'52$	
desc. node	11456 Dec 26 08:30	28° $\mathbb{Z}55'42$			11457 Dec 03 02:07	0° \mathbb{Z}	
	11456 Dec 26 23:16	0° \mathbb{A}		desc. node	11457 Dec 13 05:30	18° $\mathbb{Z}53'27$	
	11457 Jan 16 11:22	0° \mathbb{H}			11457 Dec 20 03:56	0° \mathbb{A}	
evening max el	11457 Jan 22 01:59	6° $\mathbb{H}00'42$	27°13'13	evening max el	11458 Jan 04 13:46	19° $\mathbb{A}10'49$	27°31'40
retrograde	11457 Feb 04 13:16	13° $\mathbb{H}24'36$		retrograde	11458 Jan 18 07:59	26° $\mathbb{A}32'11$	
evening set	11457 Feb 11 06:30	10° $\mathbb{H}51'58$		evening set	11458 Jan 25 07:02	24° $\mathbb{A}05'49$	
min. Earth dist.	11457 Feb 15 04:13	7° $\mathbb{H}11'43$	0.65045 AU	min. Earth dist.	11458 Jan 29 01:12	20° $\mathbb{A}55'31$	0.63219 AU
inferior conj	11457 Feb 17 11:34	4° $\mathbb{H}38'48$	-0°28'28	inferior conj	11458 Jan 31 19:25	18° $\mathbb{A}11'15$	-1°38'48
minimum elong	11457 Feb 17 12:24	4° $\mathbb{H}36'29$	0°27'45	minimum elong	11458 Jan 31 22:38	18° $\mathbb{A}03'11$	1°36'56
asc. node	11457 Feb 18 22:13	3° $\mathbb{H}04'42$		asc. node	11458 Feb 05 19:31	13° $\mathbb{A}53'41$	
	11457 Feb 22 08:38	30° $\mathbb{R}\mathbb{A}$		morning rise	11458 Feb 07 16:30	12° $\mathbb{A}57'12$	
morning rise	11457 Feb 23 19:54	29° $\mathbb{A}08'57$		direct	11458 Feb 10 00:54	12° $\mathbb{A}30'48$	
direct	11457 Feb 26 11:34	28° $\mathbb{A}31'44$		morning max el	11458 Feb 16 14:14	15° $\mathbb{A}52'35$	17°46'55
	11457 Mar 02 15:12	0° \mathbb{H}			11458 Feb 26 14:31	0° \mathbb{H}	
morning max el	11457 Mar 04 20:29	1° $\mathbb{H}51'39$	17°57'53	morning set	11458 Mar 04 20:20	10° $\mathbb{H}42'17$	
morning set	11457 Mar 22 14:54	28° $\mathbb{H}15'30$		desc. node	11458 Mar 11 06:09	21° $\mathbb{H}43'13$	
	11457 Mar 23 16:14	0° \mathbb{Y}			11458 Mar 16 04:41	0° \mathbb{Y}	
desc. node	11457 Mar 24 09:29	1° $\mathbb{Y}11'05$					
superior conj	11457 Apr 05 19:39	21° $\mathbb{Y}16'53$	-1°24'39	superior conj	11458 Mar 17 03:12	1° $\mathbb{Y}32'52$	-0°43'34
minimum elong	11457 Apr 05 10:54	20° $\mathbb{Y}42'11$	1°23'50	minimum elong	11458 Mar 16 22:41	1° $\mathbb{Y}14'17$	0°42'52
max. Earth dist.	11457 Apr 09 12:57	27° $\mathbb{Y}09'15$	1.45449 AU	max. Earth dist.	11458 Mar 23 07:36	11° $\mathbb{Y}34'03$	1.44471 AU
	11457 Apr 11 08:32	0° \mathbb{B}		evening rise	11458 Apr 01 08:50	25° $\mathbb{Y}43'59$	
evening rise	11457 Apr 21 21:17	16° $\mathbb{B}19'07$			11458 Apr 04 03:47	0° \mathbb{B}	
	11457 Apr 30 20:18	0° \mathbb{H}			11458 Apr 24 23:07	0° \mathbb{H}	
greatest brilliancy	11457 May 05 23:12	7° $\mathbb{H}38'57$	-0.6m	evening max el	11458 Apr 30 15:49	6° $\mathbb{H}38'20$	20°47'53
evening max el	11457 May 17 15:18	22° $\mathbb{H}53'22$	19°44'00	asc. node	11458 May 04 16:56	10° $\mathbb{H}02'01$	
asc. node	11457 May 17 19:42	23° $\mathbb{H}04'23$		retrograde	11458 May 08 23:20	11° $\mathbb{H}28'56$	
retrograde	11457 May 25 00:29	27° $\mathbb{H}05'17$		evening set	11458 May 13 03:14	9° $\mathbb{H}50'46$	
				inferior conj	11458 May 18 09:45	3° $\mathbb{H}41'14$	3°09'58

minimum elong	11458 May 18 08:44	3° Π 44'42	3°09'15	evening max el	11459 Apr 13 10:56	20° \mathcal{B} 23'48	22°02'28
min. Earth dist.	11458 May 18 22:27	2° Π 57'20	0.68311 AU	asc. node	11459 Apr 21 14:12	25° \mathcal{B} 49'38	
	11458 May 21 04:00	30° \mathcal{R} \mathcal{B}		retrograde	11459 Apr 22 21:12	25° \mathcal{B} 57'39	
morning rise	11458 May 23 14:02	27° \mathcal{B} 23'44		evening set	11459 Apr 27 11:41	24° \mathcal{B} 04'07	
direct	11458 May 28 23:13	25° \mathcal{B} 01'14		inferior conj	11459 May 02 18:42	17° \mathcal{B} 44'22	2°53'06
desc. node	11458 Jun 07 07:10	0° Π 01'50		minimum elong	11459 May 02 16:57	17° \mathcal{B} 50'27	2°52'19
	11458 Jun 07 06:23	0° Π		min. Earth dist.	11459 May 02 18:26	17° \mathcal{B} 45'18	0.68706 AU
morning max el	11458 Jun 08 19:13	1° Π 29'21	23°46'17	morning rise	11459 May 07 22:04	11° \mathcal{B} 31'57	
	11458 Jun 30 09:42	0° \mathcal{E}		direct	11459 May 12 18:00	9° \mathcal{B} 28'19	
morning set	11458 Jul 14 00:45	21° \mathcal{E} 51'46		morning max el	11459 May 22 06:58	15° \mathcal{B} 04'49	22°17'05
max. Earth dist.	11458 Jul 17 21:12	28° \mathcal{E} 32'02	1.38741 AU	desc. node	11459 May 25 04:05	18° \mathcal{B} 11'02	
	11458 Jul 18 17:05	0° \mathcal{O}			11459 Jun 03 09:27	0° Π	
					11459 Jun 23 09:17	0° \mathcal{E}	
superior conj	11458 Jul 25 08:07	12° \mathcal{O} 07'50	-0°57'25	morning set	11459 Jun 24 15:30	2° \mathcal{E} 01'47	
minimum elong	11458 Jul 25 12:04	12° \mathcal{O} 26'28	0°57'20	max. Earth dist.	11459 Jun 29 20:02	10° \mathcal{E} 35'31	1.41025 AU
asc. node	11458 Jul 31 16:11	24° \mathcal{O} 19'24					
evening rise	11458 Aug 03 10:36	29° \mathcal{O} 44'12		superior conj	11459 Jul 07 15:05	24° \mathcal{E} 05'15	-1°30'14
	11458 Aug 03 13:50	0° \mathcal{M}		minimum elong	11459 Jul 07 21:15	24° \mathcal{E} 32'44	1°30'07
evening max el	11458 Aug 19 16:46	26° \mathcal{M} 10'33	18°51'24		11459 Jul 10 21:45	0° \mathcal{O}	
	11458 Aug 25 11:28	0° \mathcal{E}		evening rise	11459 Jul 17 23:11	13° \mathcal{O} 05'41	
retrograde	11458 Aug 28 05:00	0° \mathcal{E} 25'56		asc. node	11459 Jul 18 13:02	14° \mathcal{O} 10'25	
evening set	11458 Aug 30 02:38	0° \mathcal{E} 13'58			11459 Jul 27 10:21	0° \mathcal{M}	
	11458 Aug 31 00:44	30° \mathcal{R} \mathcal{M}		evening max el	11459 Aug 02 23:22	8° \mathcal{M} 41'07	18°17'56
desc. node	11458 Sep 03 05:11	28° \mathcal{M} 36'23		retrograde	11459 Aug 10 07:26	12° \mathcal{M} 23'17	
inferior conj	11458 Sep 07 07:34	25° \mathcal{M} 54'39	-1°17'02	evening set	11459 Aug 12 11:30	12° \mathcal{M} 04'34	
minimum elong	11458 Sep 07 04:19	26° \mathcal{M} 00'29	1°15'51	inferior conj	11459 Aug 19 21:17	7° \mathcal{M} 24'59	0°22'15
min. Earth dist.	11458 Sep 10 08:28	23° \mathcal{M} 44'40	0.56692 AU	minimum elong	11459 Aug 19 22:02	7° \mathcal{M} 23'23	0°21'38
morning rise	11458 Sep 15 02:42	20° \mathcal{M} 58'52		desc. node	11459 Aug 21 02:32	6° \mathcal{M} 23'15	
direct	11458 Sep 20 17:45	19° \mathcal{M} 42'53		min. Earth dist.	11459 Aug 23 05:36	4° \mathcal{M} 37'47	0.58721 AU
morning max el	11458 Oct 04 23:47	27° \mathcal{M} 04'59	26°16'18	morning rise	11459 Aug 27 05:06	1° \mathcal{M} 53'51	
	11458 Oct 07 19:37	0° \mathcal{E}		direct	11459 Sep 02 11:12	0° \mathcal{M} 08'50	
	11458 Oct 27 10:44	0° \mathcal{M}		morning max el	11459 Sep 16 19:53	7° \mathcal{M} 53'34	27°24'33
asc. node	11458 Oct 27 17:18	0° \mathcal{M} 31'50			11459 Oct 03 13:09	0° \mathcal{E}	
morning set	11458 Nov 02 12:46	12° \mathcal{M} 25'10		asc. node	11459 Oct 14 14:04	20° \mathcal{E} 07'33	
				morning set	11459 Oct 17 20:45	26° \mathcal{E} 54'07	
					11459 Oct 19 07:35	0° \mathcal{M}	
superior conj	11458 Nov 09 08:40	27° \mathcal{M} 25'40	1°35'14				
minimum elong	11458 Nov 09 07:27	27° \mathcal{M} 18'57	1°35'43	superior conj	11459 Oct 24 20:25	12° \mathcal{M} 11'06	1°25'35
max. Earth dist.	11458 Nov 10 03:23	29° \mathcal{M} 09'37	1.31646 AU	minimum elong	11459 Oct 24 18:29	12° \mathcal{M} 00'22	1°25'49
	11458 Nov 10 12:29	0° \mathcal{X}		max. Earth dist.	11459 Oct 24 12:23	11° \mathcal{M} 26'22	1.31366 AU
evening rise	11458 Nov 16 07:20	12° \mathcal{X} 32'26		evening rise	11459 Oct 31 14:19	27° \mathcal{M} 01'37	
	11458 Nov 25 05:20	0° \mathcal{B}			11459 Nov 01 23:59	0° \mathcal{X}	
desc. node	11458 Nov 30 02:35	8° \mathcal{B} 24'21		desc. node	11459 Nov 16 23:44	27° \mathcal{X} 17'52	
	11458 Dec 16 03:49	0° \approx			11459 Nov 18 19:20	0° \mathcal{B}	
evening max el	11458 Dec 17 21:18	1° \approx 42'23	27°18'13	evening max el	11459 Nov 29 22:11	13° \mathcal{B} 25'52	26°30'26
retrograde	11458 Dec 31 18:59	8° \approx 57'26		retrograde	11459 Dec 13 20:51	20° \mathcal{B} 32'38	
evening set	11459 Jan 07 17:55	6° \approx 46'07		evening set	11459 Dec 20 11:04	18° \mathcal{B} 45'48	
min. Earth dist.	11459 Jan 11 11:47	3° \approx 58'53	0.61162 AU	min. Earth dist.	11459 Dec 24 11:57	16° \mathcal{B} 09'51	0.59029 AU
inferior conj	11459 Jan 14 14:01	1° \approx 16'16	-2°55'34	inferior conj	11459 Dec 27 15:51	13° \mathcal{B} 44'52	-4°12'28
minimum elong	11459 Jan 14 20:02	1° \approx 03'02	2°52'41	minimum elong	11459 Dec 27 23:57	13° \mathcal{B} 29'21	4°09'22
	11459 Jan 16 01:21	30° \mathcal{R} \mathcal{B}		morning rise	11460 Jan 04 15:37	9° \mathcal{B} 11'04	
morning rise	11459 Jan 22 00:55	26° \mathcal{B} 21'11		direct	11460 Jan 06 18:07	8° \mathcal{B} 55'32	
asc. node	11459 Jan 23 16:46	26° \mathcal{B} 03'00		asc. node	11460 Jan 10 13:56	9° \mathcal{B} 49'47	
direct	11459 Jan 24 04:28	26° \mathcal{B} 01'59		morning max el	11460 Jan 14 16:58	12° \mathcal{B} 50'31	18°20'35
morning max el	11459 Jan 31 06:17	29° \mathcal{B} 35'32	17°54'00		11460 Jan 26 05:25	0° \approx	
	11459 Jan 31 16:00	0° \approx		morning set	11460 Jan 30 12:03	8° \approx 02'00	
morning set	11459 Feb 15 21:17	24° \approx 03'21					
	11459 Feb 19 03:50	0° \mathcal{X}		superior conj	11460 Feb 08 18:10	25° \approx 26'31	0°32'34
superior conj	11459 Feb 26 11:26	12° \mathcal{X} 58'28	-0°02'47	minimum elong	11460 Feb 08 20:26	25° \approx 36'49	0°32'41
minimum elong	11459 Feb 26 11:13	12° \mathcal{X} 57'31	0°02'29		11460 Feb 11 06:39	0° \mathcal{X}	
behind sun begin	11459 Feb 26 03:00	12° \mathcal{X} 21'56		desc. node	11460 Feb 12 23:30	3° \mathcal{X} 01'17	
behind sun end	11459 Feb 26 19:26	13° \mathcal{X} 33'01		max. Earth dist.	11460 Feb 16 07:14	8° \mathcal{X} 47'11	1.40876 AU
desc. node	11459 Feb 26 02:48	12° \mathcal{X} 21'03		evening rise	11460 Feb 20 20:09	16° \mathcal{X} 23'13	
max. Earth dist.	11459 Mar 05 21:53	25° \mathcal{X} 30'17	1.42886 AU		11460 Feb 29 10:25	0° \mathcal{Y}	
	11459 Mar 08 16:16	0° \mathcal{Y}			11460 Mar 22 05:27	0° \mathcal{B}	
evening rise	11459 Mar 12 05:06	5° \mathcal{Y} 37'40		evening max el	11460 Mar 26 02:21	4° \mathcal{B} 11'38	23°22'40
	11459 Mar 28 10:48	0° \mathcal{B}		retrograde	11460 Apr 05 16:28	10° \mathcal{B} 26'29	

asc. node	11460 Apr 07 11:31	10°♄11'19		retrograde	11461 Mar 20 07:56	24°♄50'39	
evening set	11460 Apr 10 18:23	8°♄18'52		asc. node	11461 Mar 25 08:49	22°♄57'13	
min. Earth dist.	11460 Apr 15 15:14	2°♄35'29	0.68650 AU	evening set	11461 Mar 25 21:51	22°♄30'49	
inferior conj	11460 Apr 16 03:51	1°♄52'02	2°26'21	min. Earth dist.	11461 Mar 30 10:39	17°♄22'57	0.68159 AU
minimum elong	11460 Apr 16 01:43	1°♄59'23	2°25'28	inferior conj	11461 Mar 31 11:20	16°♄00'54	1°49'58
	11460 Apr 17 12:48	30°♄		minimum elong	11461 Mar 31 09:15	16°♄07'51	1°49'09
morning rise	11460 Apr 21 08:58	25°♄46'03		morning rise	11461 Apr 05 20:50	10°♄02'47	
direct	11460 Apr 25 15:46	24°♄03'34		direct	11461 Apr 09 15:10	8°♄41'33	
morning max el	11460 May 03 23:45	28°♄50'05	20°54'48	morning max el	11461 Apr 17 00:03	12°♄47'35	19°44'57
	11460 May 05 02:52	0°♄		desc. node	11461 Apr 27 21:40	26°♄38'16	
desc. node	11460 May 11 00:55	7°♄07'24		greatest brilliancy	11461 Apr 29 19:50	29°♄25'36	-0.6m
	11460 May 26 23:53	0°♄			11461 Apr 30 05:14	0°♄	
morning set	11460 Jun 03 04:58	11°♄04'36		morning set	11461 May 13 04:50	19°♄35'47	
max. Earth dist.	11460 Jun 11 01:03	23°♄32'39	1.43068 AU		11461 May 19 21:53	0°♄	
	11460 Jun 14 23:30	0°♄		max. Earth dist.	11461 May 24 13:25	7°♄18'57	1.44624 AU
superior conj	11460 Jun 18 00:20	5°♄04'46	-1°57'19	superior conj	11461 May 29 09:30	15°♄02'58	-2°12'12
minimum elong	11460 Jun 18 06:43	5°♄31'44	1°57'32	minimum elong	11461 May 29 11:50	15°♄12'25	2°12'50
evening rise	11460 Jun 29 21:16	25°♄45'58			11461 Jun 07 11:56	0°♄	
	11460 Jul 02 06:22	0°♄		evening rise	11461 Jun 11 23:55	7°♄34'22	
asc. node	11460 Jul 04 09:56	3°♄47'40		asc. node	11461 Jun 21 06:54	23°♄06'02	
evening max el	11460 Jul 16 11:31	21°♄42'09	18°04'18		11461 Jun 25 20:33	0°♄	
retrograde	11460 Jul 23 02:31	25°♄06'03		evening max el	11461 Jun 30 01:33	5°♄04'27	18°09'30
evening set	11460 Jul 25 14:38	24°♄36'51		retrograde	11461 Jul 06 10:12	8°♄25'00	
inferior conj	11460 Aug 01 07:02	19°♄37'13	1°37'42	evening set	11461 Jul 09 06:22	7°♄42'41	
minimum elong	11460 Aug 01 09:32	19°♄31'08	1°36'22	inferior conj	11461 Jul 15 09:02	2°♄24'38	2°29'02
min. Earth dist.	11460 Aug 04 10:48	16°♄34'55	0.60994 AU	minimum elong	11461 Jul 15 11:36	2°♄17'36	2°27'47
desc. node	11460 Aug 06 23:52	14°♄25'56			11461 Jul 17 13:50	30°♄	
morning rise	11460 Aug 08 01:46	13°♄40'04		min. Earth dist.	11461 Jul 18 01:16	29°♄29'37	0.63214 AU
direct	11460 Aug 14 16:41	11°♄27'52		morning rise	11461 Jul 21 15:08	26°♄11'40	
morning max el	11460 Aug 28 22:49	19°♄25'54	27°55'52	desc. node	11461 Jul 24 21:08	24°♄19'10	
	11460 Sep 06 22:34	0°♄		direct	11461 Jul 28 07:49	23°♄39'37	
	11460 Sep 25 10:10	0°♄			11461 Aug 09 12:42	0°♄	
asc. node	11460 Sep 30 10:47	9°♄57'40		morning max el	11461 Aug 11 06:57	1°♄41'40	27°48'49
morning set	11460 Oct 01 00:03	11°♄06'11			11461 Sep 01 04:39	0°♄	
max. Earth dist.	11460 Oct 06 20:04	23°♄36'09	1.31588 AU	morning set	11461 Sep 14 20:29	24°♄55'58	
				asc. node	11461 Sep 17 07:30	29°♄57'19	
superior conj	11460 Oct 08 07:06	26°♄49'23	1°10'28		11461 Sep 17 08:01	0°♄	
minimum elong	11460 Oct 08 04:52	26°♄36'58	1°10'24	max. Earth dist.	11461 Sep 19 22:41	5°♄29'35	1.32322 AU
	11460 Oct 09 17:31	0°♄					
evening rise	11460 Oct 15 00:25	11°♄36'51		superior conj	11461 Sep 22 14:51	11°♄15'09	0°50'05
	11460 Oct 24 05:23	0°♄		minimum elong	11461 Sep 22 12:48	11°♄04'02	0°49'47
desc. node	11460 Nov 02 20:57	15°♄18'47		evening rise	11461 Sep 29 11:47	26°♄13'00	
evening max el	11460 Nov 10 14:57	24°♄18'02	25°11'47		11461 Oct 01 06:32	0°♄	
	11460 Nov 18 17:59	0°♄			11461 Oct 18 22:34	0°♄	
retrograde	11460 Nov 24 11:19	1°♄15'08		desc. node	11461 Oct 20 18:14	2°♄07'11	
evening set	11460 Nov 30 05:54	29°♄59'43		evening max el	11461 Oct 23 01:44	4°♄31'17	23°33'51
	11460 Nov 30 05:38	30°♄		retrograde	11461 Nov 05 12:54	11°♄14'08	
min. Earth dist.	11460 Dec 05 03:01	27°♄18'46	0.57043 AU	evening set	11461 Nov 10 00:34	10°♄30'22	
inferior conj	11460 Dec 07 21:54	25°♄27'47	-5°16'59	min. Earth dist.	11461 Nov 16 11:48	7°♄25'47	0.55489 AU
minimum elong	11460 Dec 08 05:06	25°♄15'48	5°14'59	inferior conj	11461 Nov 18 07:41	6°♄21'06	-5°49'03
morning rise	11460 Dec 16 06:33	21°♄16'03		minimum elong	11461 Nov 18 08:51	6°♄19'23	5°48'23
direct	11460 Dec 18 13:59	21°♄00'29		morning rise	11461 Nov 26 18:56	2°♄28'03	
asc. node	11460 Dec 27 11:01	25°♄08'46		direct	11461 Nov 29 14:38	2°♄08'31	
morning max el	11460 Dec 27 18:19	25°♄26'06	19°08'41	morning max el	11461 Dec 10 06:54	7°♄12'35	20°19'43
	11460 Dec 31 16:57	0°♄		asc. node	11461 Dec 14 08:04	11°♄45'15	
morning set	11461 Jan 13 12:15	22°♄25'27			11461 Dec 25 06:23	0°♄	
	11461 Jan 17 07:44	0°♄		morning set	11461 Dec 28 18:37	7°♄03'56	
superior conj	11461 Jan 21 18:46	8°♄44'02	1°00'24	superior conj	11462 Jan 05 08:38	22°♄38'03	1°20'24
minimum elong	11461 Jan 21 21:45	8°♄58'25	1°00'35	minimum elong	11462 Jan 05 11:13	22°♄51'06	1°20'48
max. Earth dist.	11461 Jan 28 13:45	21°♄24'04	1.38666 AU		11462 Jan 09 01:40	0°♄	
desc. node	11461 Jan 29 20:13	23°♄40'18		max. Earth dist.	11462 Jan 10 21:09	3°♄29'42	1.36500 AU
evening rise	11461 Feb 01 08:37	28°♄04'51		evening rise	11462 Jan 14 16:35	10°♄36'13	
	11461 Feb 02 11:26	0°♄		desc. node	11462 Jan 16 17:00	14°♄14'09	
	11461 Feb 21 21:29	0°♄			11462 Jan 26 02:32	0°♄	
evening max el	11461 Mar 08 16:07	18°♄02'33	24°42'07		11462 Feb 17 09:10	0°♄	

evening max el	11462 Feb 19 05:32	1° Υ 52'35	25°53'43	retrograde	11463 Feb 14 23:57	22° X 58'11	
retrograde	11462 Mar 03 18:38	9° Υ 03'28		evening set	11463 Feb 21 12:15	20° X 24'50	
evening set	11462 Mar 09 20:24	6° Υ 34'32		min. Earth dist.	11463 Feb 25 12:35	16° X 26'08	0.65956 AU
asc. node	11462 Mar 12 06:09	4° Υ 13'00		asc. node	11463 Feb 27 03:28	14° X 33'08	
min. Earth dist.	11462 Mar 14 02:27	2° Υ 01'47	0.67253 AU	inferior conj	11463 Feb 27 13:22	14° X 04'09	0°08'03
inferior conj	11462 Mar 15 15:13	0° Υ 06'19	1°03'53	minimum elong	11463 Feb 27 13:08	14° X 04'49	0°08'14
minimum elong	11462 Mar 15 13:43	0° Υ 11'01	1°03'24	transit middle	11463 Feb 27 13:08	14° X 04'49	0°08'14
	11462 Mar 15 17:13	30° R X		transit begin	11463 Feb 27 10:36	14° X 12'13	
morning rise	11462 Mar 21 07:40	24° X 17'43		transit end	11463 Feb 27 15:40	13° X 57'25	
direct	11462 Mar 24 14:31	23° X 16'06		morning rise	11463 Mar 05 15:15	8° X 26'57	
morning max el	11462 Mar 31 07:58	26° X 54'27	18°50'19	direct	11463 Mar 08 11:57	7° X 41'58	
	11462 Apr 03 03:23	0° Υ		morning max el	11463 Mar 14 21:52	11° X 05'26	18°12'08
desc. node	11462 Apr 14 18:21	16° Υ 33'51			11463 Mar 28 09:30	0° Υ	
morning set	11462 Apr 22 13:26	28° Υ 38'45		desc. node	11463 Apr 01 15:02	6° Υ 47'44	
	11462 Apr 23 10:19	0° B		morning set	11463 Apr 02 23:56	9° Υ 00'15	
max. Earth dist.	11462 May 07 06:55	21° B 37'08	1.45523 AU		11463 Apr 16 04:20	0° B	
superior conj	11462 May 08 22:26	24° B 12'04	-2°08'40	superior conj	11463 Apr 18 05:21	3° B 12'22	-1°45'08
minimum elong	11462 May 08 17:18	23° B 51'54	2°09'00	minimum elong	11463 Apr 17 19:58	2° B 35'34	1°44'37
	11462 May 12 14:52	0° II		max. Earth dist.	11463 Apr 20 02:31	6° B 09'08	1.45688 AU
evening rise	11462 May 24 03:03	18° II 22'21		evening rise	11463 May 04 06:57	28° B 15'05	
	11462 May 31 08:12	0° B			11463 May 05 09:55	0° II	
asc. node	11462 Jun 08 03:57	11° B 57'59		greatest brilliancy	11463 May 15 21:49	16° II 11'49	-0.7m
evening max el	11462 Jun 13 14:17	18° B 39'11	18°32'51		11463 May 25 20:01	0° B	
retrograde	11462 Jun 20 02:05	22° B 10'16		asc. node	11463 May 26 01:04	0° B 14'46	
evening set	11462 Jun 23 06:23	21° B 13'12		evening max el	11463 May 27 23:18	2° B 20'26	19°13'28
inferior conj	11462 Jun 28 23:13	15° B 38'44	2°59'55	retrograde	11463 Jun 03 22:43	6° B 14'37	
minimum elong	11462 Jun 29 00:58	15° B 33'27	2°58'58	evening set	11463 Jun 07 11:31	5° B 01'54	
min. Earth dist.	11462 Jul 01 01:03	13° B 08'37	0.65167 AU		11463 Jun 12 07:24	30° R II	
morning rise	11462 Jul 04 18:35	9° B 18'12		inferior conj	11463 Jun 12 22:03	29° II 12'40	3°14'11
direct	11462 Jul 11 07:00	6° B 36'21		minimum elong	11463 Jun 12 22:41	29° II 10'37	3°13'27
desc. node	11462 Jul 11 18:20	6° B 37'08		min. Earth dist.	11463 Jun 14 09:02	27° II 19'15	0.66737 AU
morning max el	11462 Jul 24 17:40	14° B 31'28	27°07'55	morning rise	11463 Jun 18 09:19	22° II 50'34	
	11462 Aug 06 07:59	0° Ω		direct	11463 Jun 24 13:13	20° II 09'14	
	11462 Aug 24 21:39	0° M		desc. node	11463 Jun 28 15:29	21° II 08'10	
morning set	11462 Aug 29 07:20	8° M 16'43		morning max el	11463 Jul 07 04:31	27° II 42'47	26°00'58
max. Earth dist.	11462 Sep 02 16:48	17° M 00'21	1.33565 AU		11463 Jul 09 08:19	0° B	
asc. node	11462 Sep 04 04:14	20° M 02'11			11463 Jul 31 00:39	0° Ω	
superior conj	11462 Sep 06 17:33	25° M 22'42	0°24'44	morning set	11463 Aug 12 05:02	20° Ω 59'01	
minimum elong	11462 Sep 06 16:19	25° M 16'14	0°24'21	max. Earth dist.	11463 Aug 16 00:18	28° Ω 09'31	1.35294 AU
	11462 Sep 08 21:44	0° Ω			11463 Aug 16 23:07	0° M	
evening rise	11462 Sep 13 22:32	10° Ω 44'50		superior conj	11463 Aug 21 12:35	9° M 04'58	-0°05'00
	11462 Sep 23 19:47	0° M		minimum elong	11463 Aug 21 12:53	9° M 06'32	0°05'17
evening max el	11462 Oct 04 14:32	14° M 38'37	21°54'04	behind sun begin	11463 Aug 21 07:07	8° M 37'14	
desc. node	11462 Oct 07 15:34	17° M 17'20		behind sun end	11463 Aug 21 18:39	9° M 35'53	
retrograde	11462 Oct 17 03:52	20° M 53'24		asc. node	11463 Aug 22 00:58	10° M 08'02	
evening set	11462 Oct 20 04:54	20° M 32'37		evening rise	11463 Aug 29 06:35	25° M 06'09	
inferior conj	11462 Oct 29 02:45	16° M 35'29	-5°28'04		11463 Aug 31 16:05	0° Ω	
minimum elong	11462 Oct 28 19:39	16° M 45'26	5°26'32	evening max el	11463 Sep 16 14:19	25° Ω 15'27	20°27'08
min. Earth dist.	11462 Oct 28 18:35	16° M 46'55	0.54654 AU		11463 Sep 23 12:52	0° M	
morning rise	11462 Nov 06 11:42	12° M 48'19		desc. node	11463 Sep 24 12:57	0° M 19'24	
direct	11462 Nov 10 00:53	12° M 20'42		retrograde	11463 Sep 27 15:49	0° M 45'01	
morning max el	11462 Nov 22 05:51	18° M 08'22	21°52'13	evening set	11463 Sep 29 17:52	0° M 34'10	
asc. node	11462 Dec 01 05:02	29° M 23'04			11463 Oct 01 23:39	30° R Ω	
	11462 Dec 01 14:28	0° X		inferior conj	11463 Oct 08 19:32	26° Ω 37'44	-4°10'58
morning set	11462 Dec 13 04:42	21° X 50'28		minimum elong	11463 Oct 08 09:38	26° Ω 52'10	4°07'46
	11462 Dec 17 01:03	0° B		min. Earth dist.	11463 Oct 10 02:48	25° Ω 52'12	0.54743 AU
superior conj	11462 Dec 20 08:00	6° B 58'02	1°32'59	morning rise	11463 Oct 17 00:52	22° Ω 35'40	
minimum elong	11462 Dec 20 09:37	7° B 06'31	1°33'35	direct	11463 Oct 21 09:45	21° Ω 54'32	
max. Earth dist.	11462 Dec 24 09:51	15° B 22'49	1.34591 AU	morning max el	11463 Nov 03 18:59	28° Ω 24'58	23°38'27
evening rise	11462 Dec 28 16:38	23° B 48'57			11463 Nov 05 09:25	0° M	
	11462 Dec 31 23:51	0° \approx		asc. node	11463 Nov 18 01:57	17° M 47'01	
desc. node	11463 Jan 03 13:53	4° \approx 38'49			11463 Nov 24 12:11	0° X	
	11463 Jan 19 17:12	0° X		morning set	11463 Nov 27 16:25	6° X 37'57	
evening max el	11463 Feb 01 19:02	15° X 35'33	26°50'13	superior conj	11463 Dec 04 13:44	21° X 33'36	1°38'44

minimum elong	11463 Dec 04 14:11	21° ♄ 36'03	1°39'25	superior conj	11464 Nov 17 23:22	6° ♄ 17'40	1°38'12
max. Earth dist.	11463 Dec 07 06:13	27° ♄ 19'21	1.33080 AU	minimum elong	11464 Nov 17 22:42	6° ♄ 14'03	1°38'49
	11463 Dec 08 12:41	0° ♄		max. Earth dist.	11464 Nov 19 09:51	9° ♄ 27'27	1.32036 AU
evening rise	11463 Dec 12 05:04	7° ♄ 32'43		evening rise	11464 Nov 25 02:45	21° ♄ 39'35	
desc. node	11463 Dec 21 10:51	24° ♄ 48'07			11464 Nov 29 06:30	0° ♄	
	11463 Dec 24 12:36	0° ♄		desc. node	11464 Dec 07 07:53	14° ♄ 35'28	
evening max el	11464 Jan 15 07:53	29° ♄ 00'52	27°24'34		11464 Dec 17 11:32	0° ♄	
	11464 Jan 16 09:17	0° ♄		evening max el	11464 Dec 27 18:19	11° ♄ 56'34	27°30'05
retrograde	11464 Jan 28 22:59	6° ♄ 25'18		retrograde	11465 Jan 10 14:40	19° ♄ 15'27	
evening set	11464 Feb 04 19:08	3° ♄ 54'14		evening set	11465 Jan 17 14:16	16° ♄ 54'44	
min. Earth dist.	11464 Feb 08 15:01	0° ♄ 27'14	0.64302 AU	min. Earth dist.	11465 Jan 21 07:53	13° ♄ 54'57	0.62365 AU
	11464 Feb 09 01:31	30° ♄		inferior conj	11465 Jan 24 05:52	11° ♄ 09'45	-2°10'50
inferior conj	11464 Feb 11 03:14	27° ♄ 47'48	-0°57'18	minimum elong	11465 Jan 24 10:16	10° ♄ 59'18	2°08'30
minimum elong	11464 Feb 11 05:01	27° ♄ 43'05	0°56'07	asc. node	11465 Jan 30 22:02	6° ♄ 12'55	
asc. node	11464 Feb 14 00:45	24° ♄ 54'03		morning rise	11465 Jan 31 08:46	6° ♄ 03'05	
morning rise	11464 Feb 17 16:49	22° ♄ 24'25		direct	11465 Feb 02 14:41	5° ♄ 40'13	
direct	11464 Feb 20 05:01	21° ♄ 52'25		morning max el	11465 Feb 09 08:24	9° ♄ 06'10	17°47'33
morning max el	11464 Feb 26 15:03	25° ♄ 12'10	17°51'01		11465 Feb 23 04:16	0° ♄	
	11464 Mar 01 15:52	0° ♄		morning set	11465 Feb 25 05:37	3° ♄ 37'55	
morning set	11464 Mar 14 15:06	20° ♄ 45'41		desc. node	11465 Mar 05 08:21	17° ♄ 49'09	
desc. node	11464 Mar 18 11:42	27° ♄ 14'19					
	11464 Mar 20 03:29	0° ♄		superior conj	11465 Mar 08 18:10	23° ♄ 36'30	-0°25'49
				minimum elong	11465 Mar 08 15:38	23° ♄ 25'53	0°25'17
superior conj	11464 Mar 28 00:16	12° ♄ 51'29	-1°07'40		11465 Mar 12 14:32	0° ♄	
minimum elong	11464 Mar 27 17:04	12° ♄ 22'29	1°06'50	max. Earth dist.	11465 Mar 15 14:32	4° ♄ 52'50	1.43865 AU
max. Earth dist.	11464 Apr 01 21:39	20° ♄ 38'58	1.45113 AU	evening rise	11465 Mar 23 09:38	17° ♄ 11'36	
	11464 Apr 07 21:09	0° ♄			11465 Mar 31 19:57	0° ♄	
evening rise	11464 Apr 12 20:06	7° ♄ 38'23		evening max el	11465 Apr 23 01:18	29° ♄ 50'06	21°18'41
	11464 Apr 27 17:25	0° ♄			11465 Apr 23 05:14	0° ♄	
greatest brilliancy	11464 Apr 27 20:54	0° ♄ 12'41	-0.6m	asc. node	11465 Apr 28 19:27	4° ♄ 14'59	
evening max el	11464 May 10 03:06	16° ♄ 04'42	20°09'42	retrograde	11465 May 01 19:45	4° ♄ 58'29	
asc. node	11464 May 11 22:14	17° ♄ 45'13		evening set	11465 May 06 04:04	3° ♄ 13'46	
retrograde	11464 May 17 21:17	20° ♄ 32'27			11465 May 09 05:08	30° ♄	
evening set	11464 May 21 19:23	19° ♄ 03'41		inferior conj	11465 May 11 10:33	26° ♄ 59'51	3°04'04
inferior conj	11464 May 27 02:38	13° ♄ 01'16	3°14'54	minimum elong	11465 May 11 09:12	27° ♄ 04'34	3°03'19
minimum elong	11464 May 27 02:10	13° ♄ 02'49	3°14'13	min. Earth dist.	11465 May 11 17:42	26° ♄ 34'59	0.68538 AU
min. Earth dist.	11464 May 27 23:18	11° ♄ 51'00	0.67868 AU	morning rise	11465 May 16 14:07	20° ♄ 44'26	
morning rise	11464 Jun 01 08:39	6° ♄ 41'23		direct	11465 May 21 17:51	18° ♄ 29'17	
direct	11464 Jun 07 01:14	4° ♄ 09'44		morning max el	11465 Jun 01 00:23	24° ♄ 35'22	23°07'55
desc. node	11464 Jun 14 12:33	7° ♄ 24'28		desc. node	11465 Jun 01 09:31	24° ♄ 58'37	
morning max el	11464 Jun 18 14:19	11° ♄ 05'27	24°37'39		11465 Jun 05 20:43	0° ♄	
	11464 Jul 03 16:09	0° ♄			11465 Jun 27 02:41	0° ♄	
	11464 Jul 22 17:43	0° ♄		morning set	11465 Jul 05 14:32	13° ♄ 40'40	
morning set	11464 Jul 24 09:09	2° ♄ 51'32		max. Earth dist.	11465 Jul 09 20:36	20° ♄ 53'09	1.39728 AU
max. Earth dist.	11464 Jul 27 23:22	9° ♄ 16'31	1.37415 AU		11465 Jul 15 00:37	0° ♄	
superior conj	11464 Aug 03 20:48	22° ♄ 14'19	-0°37'52	superior conj	11465 Jul 17 14:13	4° ♄ 40'33	-1°11'42
minimum elong	11464 Aug 03 23:19	22° ♄ 26'30	0°37'54	minimum elong	11465 Jul 17 19:12	5° ♄ 03'33	1°11'33
asc. node	11464 Aug 07 21:45	0° ♄ 11'21		asc. node	11465 Jul 25 18:32	20° ♄ 07'42	
	11464 Aug 07 19:28	0° ♄		evening rise	11465 Jul 27 04:21	22° ♄ 50'02	
evening rise	11464 Aug 12 09:32	9° ♄ 10'43			11465 Jul 30 22:51	0° ♄	
	11464 Aug 23 20:39	0° ♄		evening max el	11465 Aug 12 05:40	18° ♄ 46'45	18°34'40
evening max el	11464 Aug 29 04:08	6° ♄ 38'59	19°20'13	retrograde	11465 Aug 20 04:18	22° ♄ 45'57	
retrograde	11464 Sep 07 12:59	11° ♄ 18'51		evening set	11465 Aug 22 04:30	22° ♄ 31'29	
evening set	11464 Sep 09 09:12	11° ♄ 08'48		desc. node	11465 Aug 28 07:43	19° ♄ 21'15	
desc. node	11464 Sep 10 10:20	10° ♄ 54'34		inferior conj	11465 Aug 30 01:16	18° ♄ 03'31	-0°32'18
inferior conj	11464 Sep 18 00:15	7° ♄ 00'29	-2°21'39	minimum elong	11465 Aug 29 23:59	18° ♄ 05'59	0°32'01
minimum elong	11464 Sep 17 18:01	7° ♄ 10'42	2°19'14	min. Earth dist.	11465 Sep 02 07:02	15° ♄ 35'35	0.57509 AU
min. Earth dist.	11464 Sep 20 14:22	5° ♄ 19'02	0.55763 AU	morning rise	11465 Sep 06 16:00	12° ♄ 52'17	
morning rise	11464 Sep 26 00:14	2° ♄ 26'42		direct	11465 Sep 12 14:16	11° ♄ 24'15	
direct	11464 Oct 01 05:05	1° ♄ 25'07		morning max el	11465 Sep 26 21:47	18° ♄ 56'09	26°49'28
morning max el	11464 Oct 15 06:01	8° ♄ 30'36	25°23'23		11465 Oct 06 06:11	0° ♄	
	11464 Oct 31 04:44	0° ♄		asc. node	11465 Oct 21 19:37	26° ♄ 10'06	
asc. node	11464 Nov 03 22:49	6° ♄ 45'53			11465 Oct 23 17:21	0° ♄	
morning set	11464 Nov 11 03:59	21° ♄ 21'47		morning set	11465 Oct 26 13:46	5° ♄ 57'18	
	11464 Nov 15 03:02	0° ♄					
				superior conj	11465 Nov 02 10:51	21° ♄ 03'52	1°31'48

minimum elong	11465 Nov 02 09:18	20° \mathbb{M} 55'13	1°32'13	morning set	11466 Oct 10 20:00	20° \mathbb{A} 19'24	
max. Earth dist.	11465 Nov 02 18:04	21° \mathbb{M} 44'06	1.31470 AU		11466 Oct 15 07:48	0° \mathbb{M}	
	11465 Nov 06 11:44	0° \mathbb{A}		max. Earth dist.	11466 Oct 17 03:06	3° \mathbb{M} 59'29	1.31397 AU
evening rise	11465 Nov 09 06:59	6° \mathbb{A} 02'20					
	11465 Nov 21 20:18	0° \mathbb{B}		superior conj	11466 Oct 17 22:20	5° \mathbb{M} 46'21	1°19'49
desc. node	11465 Nov 24 05:00	3° \mathbb{B} 52'07		minimum elong	11466 Oct 17 20:13	5° \mathbb{M} 34'34	1°19'55
evening max el	11465 Dec 09 23:34	24° \mathbb{B} 09'43	27°02'06	evening rise	11466 Oct 24 15:30	20° \mathbb{M} 34'18	
	11465 Dec 18 04:06	0° \mathbb{A}			11466 Oct 29 04:20	0° \mathbb{A}	
retrograde	11465 Dec 23 21:38	1° \mathbb{A} 20'21		desc. node	11466 Nov 11 02:11	22° \mathbb{A} 25'20	
	11465 Dec 29 10:54	30° \mathbb{R} \mathbb{B}			11466 Nov 16 18:25	0° \mathbb{B}	
evening set	11465 Dec 30 18:09	29° \mathbb{B} 18'37		evening max el	11466 Nov 21 20:55	5° \mathbb{B} 30'23	26°00'16
min. Earth dist.	11466 Jan 03 14:00	26° \mathbb{B} 37'52	0.60257 AU	retrograde	11466 Dec 05 18:45	12° \mathbb{B} 33'17	
inferior conj	11466 Jan 06 17:49	24° \mathbb{B} 01'03	-3°28'43	evening set	11466 Dec 12 02:22	10° \mathbb{B} 58'55	
minimum elong	11466 Jan 07 00:54	23° \mathbb{B} 46'20	3°25'35	min. Earth dist.	11466 Dec 16 09:40	8° \mathbb{B} 23'26	0.58150 AU
morning rise	11466 Jan 14 10:25	19° \mathbb{B} 14'28		inferior conj	11466 Dec 19 11:30	6° \mathbb{B} 10'55	-4°42'25
direct	11466 Jan 16 13:05	18° \mathbb{B} 57'08		minimum elong	11466 Dec 19 19:45	5° \mathbb{B} 56'03	4°39'36
asc. node	11466 Jan 17 19:14	19° \mathbb{B} 03'30		morning rise	11466 Dec 27 15:45	1° \mathbb{B} 46'54	
morning max el	11466 Jan 23 22:35	22° \mathbb{B} 38'29	18°02'47	direct	11466 Dec 29 19:38	1° \mathbb{B} 31'45	
	11466 Jan 29 16:26	0° \mathbb{A}		asc. node	11467 Jan 04 16:23	3° \mathbb{B} 31'00	
morning set	11466 Feb 08 13:07	17° \mathbb{A} 17'33		morning max el	11467 Jan 07 05:49	5° \mathbb{B} 38'12	18°38'22
	11466 Feb 15 10:43	0° \mathbb{H}			11467 Jan 22 14:09	0° \mathbb{A}	
				morning set	11467 Jan 23 08:22	1° \mathbb{A} 28'14	
superior conj	11466 Feb 18 12:30	5° \mathbb{H} 30'31	0°13'04				
minimum elong	11466 Feb 18 13:35	5° \mathbb{H} 35'16	0°13'16	superior conj	11467 Feb 01 03:29	18° \mathbb{A} 21'42	0°45'19
behind sun begin	11466 Feb 18 09:11	5° \mathbb{H} 15'45		minimum elong	11467 Feb 01 06:14	18° \mathbb{A} 34'31	0°45'26
behind sun end	11466 Feb 18 17:59	5° \mathbb{H} 54'45		desc. node	11467 Feb 07 01:42	29° \mathbb{A} 08'50	
desc. node	11466 Feb 20 05:00	8° \mathbb{H} 28'41			11467 Feb 07 13:17	0° \mathbb{H}	
max. Earth dist.	11466 Feb 26 03:21	18° \mathbb{H} 36'15	1.42075 AU	max. Earth dist.	11467 Feb 08 11:20	1° \mathbb{H} 36'36	1.39944 AU
evening rise	11466 Mar 03 13:15	27° \mathbb{H} 26'35		evening rise	11467 Feb 12 13:24	8° \mathbb{H} 35'58	
	11466 Mar 05 03:49	0° \mathbb{Y}			11467 Feb 26 03:19	0° \mathbb{Y}	
	11466 Mar 25 12:47	0° \mathbb{B}		evening max el	11467 Mar 19 09:00	27° \mathbb{Y} 25'39	23°56'50
evening max el	11466 Apr 05 18:41	13° \mathbb{B} 37'06	22°36'13		11467 Mar 22 04:03	0° \mathbb{B}	
retrograde	11466 Apr 15 16:34	19° \mathbb{B} 28'24		retrograde	11467 Mar 30 10:25	3° \mathbb{B} 56'06	
asc. node	11466 Apr 15 16:44	19° \mathbb{B} 28'24		asc. node	11467 Apr 02 14:03	3° \mathbb{B} 10'03	
evening set	11466 Apr 20 11:57	17° \mathbb{B} 28'30		evening set	11467 Apr 04 17:29	1° \mathbb{B} 42'41	
inferior conj	11466 Apr 25 19:49	11° \mathbb{B} 05'27	2°42'56		11467 Apr 06 11:03	30° \mathbb{R} \mathbb{Y}	
minimum elong	11466 Apr 25 17:51	11° \mathbb{B} 12'16	2°42'05	min. Earth dist.	11467 Apr 09 10:37	26° \mathbb{Y} 14'36	0.68497 AU
min. Earth dist.	11466 Apr 25 14:11	11° \mathbb{B} 25'02	0.68744 AU	inferior conj	11467 Apr 10 04:29	25° \mathbb{Y} 13'50	2°12'04
morning rise	11466 Apr 30 23:38	4° \mathbb{B} 55'53		minimum elong	11467 Apr 10 02:18	25° \mathbb{Y} 21'15	2°11'12
direct	11466 May 05 13:59	3° \mathbb{B} 01'10		morning rise	11467 Apr 15 11:10	19° \mathbb{Y} 11'12	
morning max el	11466 May 14 13:56	8° \mathbb{B} 15'02	21°40'51	direct	11467 Apr 19 12:28	17° \mathbb{Y} 38'07	
desc. node	11466 May 19 06:22	13° \mathbb{B} 29'49		morning max el	11467 Apr 27 09:54	22° \mathbb{Y} 06'00	20°23'20
	11466 May 31 10:00	0° \mathbb{I}			11467 May 04 02:52	0° \mathbb{B}	
morning set	11466 Jun 15 17:59	23° \mathbb{I} 20'10		desc. node	11467 May 06 03:08	2° \mathbb{B} 41'57	
	11466 Jun 19 21:15	0° \mathbb{B}			11467 May 24 15:29	0° \mathbb{I}	
max. Earth dist.	11466 Jun 21 22:18	3° \mathbb{B} 21'27	1.41949 AU	morning set	11467 May 25 23:27	2° \mathbb{I} 03'14	
				max. Earth dist.	11467 Jun 04 06:33	16° \mathbb{I} 40'56	1.43801 AU
superior conj	11466 Jun 29 12:23	16° \mathbb{B} 14'03	-1°42'46				
minimum elong	11466 Jun 29 19:01	16° \mathbb{B} 42'59	1°42'45	superior conj	11467 Jun 10 11:22	26° \mathbb{I} 46'45	-2°05'31
	11466 Jul 07 05:34	0° \mathbb{Q}		minimum elong	11467 Jun 10 16:39	27° \mathbb{I} 08'35	2°05'58
evening rise	11466 Jul 10 11:19	5° \mathbb{Q} 55'18			11467 Jun 12 09:53	0° \mathbb{B}	
asc. node	11466 Jul 12 15:23	9° \mathbb{Q} 53'20		evening rise	11467 Jun 23 01:46	18° \mathbb{B} 15'05	
	11466 Jul 25 05:12	0° \mathbb{M}		asc. node	11467 Jun 29 12:19	29° \mathbb{B} 23'28	
evening max el	11466 Jul 26 15:00	1° \mathbb{M} 30'39	18°09'41		11467 Jun 29 20:58	0° \mathbb{Q}	
retrograde	11466 Aug 02 14:27	5° \mathbb{M} 03'25		evening max el	11467 Jul 10 04:19	14° \mathbb{Q} 41'32	18°04'13
evening set	11466 Aug 04 21:53	4° \mathbb{M} 40'37		retrograde	11467 Jul 16 15:35	18° \mathbb{Q} 02'39	
inferior conj	11466 Aug 11 23:51	29° \mathbb{Q} 51'56	0°57'23	evening set	11467 Jul 19 06:59	17° \mathbb{Q} 28'16	
minimum elong	11466 Aug 12 01:37	29° \mathbb{Q} 47'59	0°56'19	inferior conj	11467 Jul 25 17:04	12° \mathbb{Q} 20'34	2°02'13
	11466 Aug 11 20:14	30° \mathbb{R} \mathbb{Q}		minimum elong	11467 Jul 25 19:45	12° \mathbb{Q} 13'41	2°00'52
desc. node	11466 Aug 15 05:04	27° \mathbb{Q} 00'13		min. Earth dist.	11467 Jul 28 16:30	9° \mathbb{Q} 18'37	0.61954 AU
min. Earth dist.	11466 Aug 15 07:12	26° \mathbb{Q} 55'41	0.59678 AU	morning rise	11467 Aug 01 06:12	6° \mathbb{Q} 15'08	
morning rise	11466 Aug 19 02:09	24° \mathbb{Q} 08'20		desc. node	11467 Aug 02 02:21	5° \mathbb{Q} 41'43	
direct	11466 Aug 25 12:42	22° \mathbb{Q} 11'32		direct	11467 Aug 07 22:31	3° \mathbb{Q} 53'20	
	11466 Sep 08 19:56	0° \mathbb{M}		morning max el	11467 Aug 22 02:41	11° \mathbb{Q} 55'11	27°57'27
morning max el	11466 Sep 08 20:59	0° \mathbb{M} 02'35	27°42'47		11467 Sep 05 09:59	0° \mathbb{M}	
	11466 Sep 30 07:46	0° \mathbb{A}			11467 Sep 22 16:31	0° \mathbb{A}	
asc. node	11466 Oct 08 16:21	15° \mathbb{A} 52'24		morning set	11467 Sep 24 20:42	4° \mathbb{A} 23'10	

asc. node	11467 Sep 25 13:04	5°♌47'19		asc. node	11468 Sep 11 09:47	25°♏49'34	
max. Earth dist.	11467 Sep 30 09:07	16°♌03'36	1.31830 AU	max. Earth dist.	11468 Sep 12 08:12	27°♏46'19	1.32784 AU
					11468 Sep 13 09:37	0°♌	
superior conj	11467 Oct 02 08:02	20°♌20'07	1°02'28	superior conj	11468 Sep 15 13:54	4°♌38'48	0°39'55
minimum elong	11467 Oct 02 05:48	20°♌07'52	1°02'16	minimum elong	11468 Sep 15 12:07	4°♌29'15	0°39'33
	11467 Oct 06 17:17	0°♌		evening rise	11468 Sep 22 13:41	19°♌45'03	
evening rise	11467 Oct 09 02:22	5°♌10'31			11468 Sep 27 12:44	0°♌	
	11467 Oct 22 01:37	0°♌		desc. node	11468 Oct 14 20:46	26°♌08'27	
desc. node	11467 Oct 28 23:26	9°♌58'30		evening max el	11468 Oct 14 20:49	26°♌08'32	22°50'40
evening max el	11467 Nov 03 10:18	16°♌02'33	24°31'32		11468 Oct 19 15:30	0°♌	
retrograde	11467 Nov 17 04:18	22°♌55'39		retrograde	11468 Oct 28 00:52	2°♌41'27	
evening set	11467 Nov 22 10:48	21°♌54'03		evening set	11468 Oct 31 21:04	2°♌09'17	
min. Earth dist.	11467 Nov 27 21:39	19°♌05'15	0.56304 AU		11468 Nov 06 01:54	30°♌	
inferior conj	11467 Nov 30 08:42	17°♌32'27	-5°35'58	min. Earth dist.	11468 Nov 08 05:29	28°♌48'58	0.55028 AU
minimum elong	11467 Nov 30 13:59	17°♌24'07	5°34'39	inferior conj	11468 Nov 09 11:06	28°♌06'38	-5°47'27
morning rise	11467 Dec 08 19:20	13°♌29'47		minimum elong	11468 Nov 09 08:34	28°♌10'15	5°46'45
direct	11467 Dec 11 06:51	13°♌13'13		morning rise	11468 Nov 17 21:38	24°♌17'47	
morning max el	11467 Dec 21 02:13	17°♌54'26	19°36'09	direct	11468 Nov 21 00:15	23°♌55'20	
asc. node	11467 Dec 22 13:27	19°♌24'57		morning max el	11468 Dec 02 08:50	29°♌18'22	20°56'44
	11467 Dec 30 01:00	0°♌			11468 Dec 03 01:56	0°♌	
morning set	11468 Jan 07 11:33	15°♌58'55		asc. node	11468 Dec 08 10:28	6°♌28'54	
	11468 Jan 14 10:43	0°♌			11468 Dec 21 11:51	0°♌	
superior conj	11468 Jan 15 10:18	1°♌56'28	1°09'48	morning set	11468 Dec 21 19:46	0°♌40'58	
minimum elong	11468 Jan 15 13:13	2°♌10'49	1°10'04	superior conj	11468 Dec 29 04:36	16°♌02'08	1°26'36
max. Earth dist.	11468 Jan 21 17:13	13°♌56'25	1.37722 AU	minimum elong	11468 Dec 29 06:50	16°♌13'32	1°27'05
desc. node	11468 Jan 24 22:28	19°♌46'13		max. Earth dist.	11469 Jan 03 02:10	25°♌52'46	1.35645 AU
evening rise	11468 Jan 25 10:34	20°♌39'51			11469 Jan 05 05:19	0°♌	
	11468 Jan 30 21:19	0°♌		evening rise	11469 Jan 07 01:51	3°♌29'51	
	11468 Feb 20 03:52	0°♌		desc. node	11469 Jan 10 19:20	10°♌16'39	
evening max el	11468 Feb 29 22:22	11°♌16'08	25°13'54		11469 Jan 22 20:01	0°♌	
retrograde	11468 Mar 13 00:10	18°♌16'04		evening max el	11469 Feb 11 12:00	25°♌04'46	26°20'09
evening set	11468 Mar 18 19:06	15°♌51'51			11469 Feb 17 12:32	0°♌	
asc. node	11468 Mar 19 11:23	15°♌15'26		retrograde	11469 Feb 24 08:46	2°♌22'00	
min. Earth dist.	11468 Mar 23 04:51	10°♌58'51	0.67822 AU		11469 Mar 02 10:31	30°♌	
inferior conj	11468 Mar 24 10:42	9°♌21'41	1°31'35	evening set	11469 Mar 02 15:05	29°♌50'50	
minimum elong	11468 Mar 24 08:47	9°♌27'54	1°30'53	asc. node	11469 Mar 06 08:42	26°♌02'07	
morning rise	11468 Mar 29 22:50	3°♌27'17		min. Earth dist.	11469 Mar 06 18:40	25°♌32'27	0.66743 AU
direct	11468 Apr 02 12:02	2°♌14'50		inferior conj	11469 Mar 08 12:28	23°♌24'57	0°41'25
morning max el	11468 Apr 09 13:34	6°♌07'54	19°19'38	minimum elong	11469 Mar 08 11:25	23°♌28'08	0°41'10
desc. node	11468 Apr 21 23:52	22°♌24'07		morning rise	11469 Mar 14 08:37	17°♌40'37	
greatest brilliancy	11468 Apr 22 08:30	22°♌56'07	-0.7m	direct	11469 Mar 17 10:57	16°♌46'25	
	11468 Apr 27 01:12	0°♌		morning max el	11469 Mar 24 00:16	20°♌17'10	18°31'58
morning set	11468 May 04 00:04	10°♌39'10			11469 Mar 31 16:43	0°♌	
	11468 May 16 10:32	0°♌		desc. node	11469 Apr 08 20:34	12°♌28'26	
max. Earth dist.	11468 May 16 20:48	0°♌40'25	1.45090 AU	morning set	11469 Apr 13 18:37	20°♌12'58	
					11469 Apr 19 23:50	0°♌	
superior conj	11468 May 20 10:52	6°♌20'48	-2°13'13	superior conj	11469 Apr 29 19:11	15°♌21'01	-2°00'56
minimum elong	11468 May 20 10:09	6°♌17'57	2°13'50	minimum elong	11469 Apr 29 11:26	14°♌50'44	2°00'55
evening rise	11468 Jun 03 18:43	29°♌37'42		max. Earth dist.	11469 Apr 29 15:27	15°♌06'27	1.45687 AU
	11468 Jun 04 00:06	0°♌			11469 May 09 03:29	0°♌	
asc. node	11468 Jun 15 09:20	18°♌31'29		evening rise	11469 May 15 11:32	10°♌00'38	
evening max el	11468 Jun 22 18:09	28°♌09'59	18°17'20	greatest brilliancy	11469 May 24 03:27	23°♌42'48	-0.8m
	11468 Jun 24 21:36	0°♌			11469 May 28 05:30	0°♌	
retrograde	11468 Jun 29 03:08	1°♌33'24		asc. node	11469 Jun 02 06:25	7°♌09'59	
evening set	11468 Jul 02 02:41	0°♌45'06		evening max el	11469 Jun 06 05:41	11°♌48'51	18°48'09
	11468 Jul 03 07:19	30°♌		retrograde	11469 Jun 12 21:19	15°♌27'55	
inferior conj	11468 Jul 08 00:44	25°♌20'10	2°44'23	evening set	11469 Jun 16 05:14	14°♌24'12	
minimum elong	11468 Jul 08 03:01	25°♌13'37	2°43'15	inferior conj	11469 Jun 21 19:01	8°♌43'27	3°07'47
min. Earth dist.	11468 Jul 10 11:09	22°♌33'34	0.64084 AU	minimum elong	11469 Jun 21 20:18	8°♌39'26	3°06'55
morning rise	11468 Jul 14 01:58	19°♌03'02		min. Earth dist.	11469 Jun 23 14:32	6°♌27'52	0.65893 AU
desc. node	11468 Jul 18 23:36	16°♌35'36		morning rise	11469 Jun 27 10:37	2°♌21'57	
direct	11468 Jul 20 17:35	16°♌25'09			11469 Jul 01 11:41	30°♌	
morning max el	11468 Aug 03 12:10	24°♌26'31	27°35'04	direct	11469 Jul 03 20:01	29°♌38'57	
	11468 Aug 08 12:35	0°♌		desc. node	11469 Jul 05 20:46	29°♌53'25	
	11468 Aug 28 20:03	0°♌					
morning set	11468 Sep 07 13:24	18°♌01'23					

	11469 Jul 06 07:07	0°☿		desc. node	11470 Jun 22 17:52	15°♊12'38	
morning max el	11469 Jul 16 22:56	7°☿26'09 26°41'58		morning max el	11470 Jun 29 09:23	20°♊43'08 25°26'54	
	11469 Aug 03 10:49	0°♊			11470 Jul 07 09:13	0°☿	
	11469 Aug 21 05:01	0°♊			11470 Jul 27 15:11	0°♊	
morning set	11469 Aug 21 19:06	1°♊06'35		morning set	11470 Aug 04 09:53	13°♊28'44	
max. Earth dist.	11469 Aug 25 21:42	9°♊05'57 1.34251 AU		max. Earth dist.	11470 Aug 08 01:26	20°♊12'19 1.36166 AU	
asc. node	11469 Aug 29 06:32	15°♊55'17			11470 Aug 13 03:15	0°♊	
superior conj	11469 Aug 30 13:41	18°♊36'29 0°12'37		superior conj	11470 Aug 14 04:33	2°♊05'35 -0°18'40	
minimum elong	11469 Aug 30 13:01	18°♊33'02 0°12'16		minimum elong	11470 Aug 14 05:43	2°♊11'26 0°18'50	
behind sun begin	11469 Aug 30 09:15	18°♊13'25		asc. node	11470 Aug 16 03:18	6°♊00'27	
behind sun end	11469 Aug 30 16:48	18°♊52'40		evening rise	11470 Aug 22 05:45	18°♊28'05	
	11469 Sep 04 23:31	0°♊			11470 Aug 28 02:02	0°♊	
evening rise	11469 Sep 06 23:33	4°♊12'58		evening max el	11470 Sep 08 19:14	17°♊20'18 19°55'57	
	11469 Sep 21 04:43	0°♊		desc. node	11470 Sep 18 15:29	22°♊28'00	
evening max el	11469 Sep 26 13:34	6°♊24'52 21°14'51		retrograde	11470 Sep 19 03:09	22°♊28'39	
desc. node	11469 Oct 01 18:08	10°♊27'20		evening set	11470 Sep 21 01:04	22°♊18'51	
retrograde	11469 Oct 08 12:34	12°♊21'11		inferior conj	11470 Sep 29 23:38	18°♊18'17 -3°26'28	
evening set	11469 Oct 11 01:55	12°♊06'00		minimum elong	11470 Sep 29 14:47	18°♊31'45 3°23'16	
inferior conj	11469 Oct 20 03:18	8°♊11'05 -5°01'16		min. Earth dist.	11470 Oct 01 21:25	17°♊08'45 0.55072 AU	
minimum elong	11469 Oct 19 18:02	8°♊24'06 4°58'51		morning rise	11470 Oct 08 03:07	14°♊04'33	
min. Earth dist.	11469 Oct 20 12:22	7°♊58'21 0.54582 AU		direct	11470 Oct 12 20:31	13°♊15'51	
morning rise	11469 Oct 28 10:47	4°♊20'17		morning max el	11470 Oct 26 13:50	20°♊01'33 24°24'26	
direct	11469 Nov 01 08:37	3°♊47'24			11470 Nov 04 00:45	0°♊	
morning max el	11469 Nov 14 02:35	9°♊53'30 22°36'29		asc. node	11470 Nov 12 04:18	13°♊07'45	
asc. node	11469 Nov 25 07:25	24°♊27'30		morning set	11470 Nov 20 18:36	0°♊14'57	
	11469 Nov 28 12:06	0°♊			11470 Nov 20 15:49	0°♊	
morning set	11469 Dec 06 06:44	15°♊27'58		superior conj	11470 Nov 27 14:36	15°♊09'01 1°39'14	
superior conj	11469 Dec 13 06:57	0°♊28'51 1°36'13		minimum elong	11470 Nov 27 14:34	15°♊08'51 1°39'56	
minimum elong	11469 Dec 13 08:05	0°♊34'52 1°36'52		max. Earth dist.	11470 Nov 29 18:08	19°♊48'54 1.32575 AU	
	11469 Dec 13 01:32	0°♊			11470 Dec 04 14:18	0°♊	
max. Earth dist.	11469 Dec 16 18:12	7°♊46'13 1.33896 AU		evening rise	11470 Dec 05 00:16	0°♊50'49	
evening rise	11469 Dec 21 07:33	16°♊56'17		desc. node	11470 Dec 15 13:15	20°♊36'21	
	11469 Dec 28 08:15	0°♊			11470 Dec 21 07:35	0°♊	
desc. node	11469 Dec 28 16:16	0°♊35'14		evening max el	11471 Jan 07 13:37	21°♊56'02 27°30'45	
	11470 Jan 17 05:45	0°♊		retrograde	11471 Jan 21 07:07	29°♊18'29	
evening max el	11470 Jan 25 01:36	8°♊41'58 27°08'06		evening set	11471 Jan 28 05:38	26°♊50'31	
retrograde	11470 Feb 07 11:18	16°♊05'37		min. Earth dist.	11471 Feb 01 00:07	23°♊36'09 0.63509 AU	
evening set	11470 Feb 14 03:23	13°♊32'36		inferior conj	11471 Feb 03 16:53	20°♊52'39 -1°27'36	
min. Earth dist.	11470 Feb 18 01:45	9°♊47'44 0.65290 AU		minimum elong	11471 Feb 03 19:43	20°♊45'29 1°25'57	
inferior conj	11470 Feb 20 07:26	7°♊17'22 -0°18'31		asc. node	11471 Feb 08 03:16	16°♊54'09	
minimum elong	11470 Feb 20 07:57	7°♊15'53 0°17'57		morning rise	11471 Feb 10 12:00	15°♊36'13	
asc. node	11470 Feb 21 06:01	6°♊14'35		direct	11471 Feb 12 21:18	15°♊08'29	
morning rise	11470 Feb 26 14:01	1°♊45'34		morning max el	11471 Feb 19 09:32	18°♊29'21 17°47'26	
direct	11470 Mar 01 06:59	1°♊06'25			11471 Feb 27 20:25	0°♊	
morning max el	11470 Mar 07 15:51	4°♊26'47 18°01'05		morning set	11471 Mar 07 19:35	13°♊27'58	
	11470 Mar 25 00:12	0°♊		desc. node	11471 Mar 13 13:55	23°♊18'48	
morning set	11470 Mar 25 17:44	1°♊11'51			11471 Mar 17 13:43	0°♊	
desc. node	11470 Mar 26 17:15	2°♊48'12		superior conj	11471 Mar 20 09:10	4°♊37'46 -0°49'57	
superior conj	11470 Apr 09 05:10	24°♊32'17 -1°30'23		minimum elong	11471 Mar 20 03:55	4°♊16'19 0°49'11	
minimum elong	11470 Apr 08 20:04	23°♊56'18 1°29'38		max. Earth dist.	11471 Mar 26 06:32	14°♊07'36 1.44658 AU	
max. Earth dist.	11470 Apr 12 11:48	29°♊41'45 1.45535 AU		evening rise	11471 Apr 04 19:05	28°♊59'36	
	11470 Apr 12 16:28	0°♊			11471 Apr 05 10:50	0°♊	
evening rise	11470 Apr 25 07:42	19°♊37'01			11471 Apr 25 21:52	0°♊	
	11470 May 02 02:01	0°♊		evening max el	11471 May 03 13:58	9°♊16'05 20°37'34	
greatest brilliancy	11470 May 08 19:29	10°♊08'36 -0.7m		asc. node	11471 May 07 00:45	12°♊14'57	
asc. node	11470 May 20 03:34	25°♊08'37		retrograde	11471 May 11 17:55	14°♊00'46	
evening max el	11470 May 20 12:40	25°♊31'53 19°35'33		evening set	11471 May 15 20:15	12°♊25'01	
retrograde	11470 May 27 19:03	29°♊38'50		inferior conj	11471 May 21 02:52	6°♊17'10 3°11'38	
evening set	11470 May 31 11:49	28°♊19'05		minimum elong	11471 May 21 02:00	6°♊20'10 3°10'55	
inferior conj	11470 Jun 05 20:36	22°♊23'56 3°16'00		min. Earth dist.	11471 May 21 17:36	5°♊26'25 0.68211 AU	
minimum elong	11470 Jun 05 20:45	22°♊23'25 3°15'17		morning rise	11471 May 26 07:31	29°♊58'54	
min. Earth dist.	11470 Jun 07 01:18	20°♊48'41 0.67281 AU			11471 May 26 07:02	30°♊	
morning rise	11470 Jun 11 05:19	16°♊02'37		direct	11471 May 31 18:36	27°♊33'54	
direct	11470 Jun 17 04:40	13°♊24'42			11471 Jun 07 00:46	0°♊	

desc. node	11471 Jun 09 14:53	2° Π 04'50		min. Earth dist.	11472 May 04 13:17	20° \mathcal{B} 13'28	0.68673 AU
morning max el	11471 Jun 11 19:15	4° Π 09'42	23°59'41	morning rise	11472 May 09 14:56	14° \mathcal{B} 05'56	
	11471 Jul 01 15:02	0° \mathcal{E}		direct	11472 May 14 12:54	11° \mathcal{B} 59'10	
morning set	11471 Jul 17 04:58	24° \mathcal{E} 55'54		morning max el	11472 May 24 06:25	17° \mathcal{B} 43'32	22°30'06
	11471 Jul 20 02:56	0° Ω		desc. node	11472 May 26 11:48	20° \mathcal{B} 05'22	
max. Earth dist.	11471 Jul 20 23:02	1° Ω 28'55	1.38392 AU		11472 Jun 03 10:44	0° Π	
					11472 Jun 23 17:06	0° \mathcal{E}	
superior conj	11471 Jul 28 06:58	14° Ω 57'23	-0°52'18	morning set	11472 Jun 26 23:38	5° \mathcal{E} 16'29	
minimum elong	11471 Jul 28 10:32	15° Ω 14'22	0°52'13	max. Earth dist.	11472 Jul 01 21:11	13° \mathcal{E} 24'36	1.40693 AU
asc. node	11471 Aug 03 00:05	26° Ω 01'06					
	11471 Aug 05 00:37	0° \mathcal{M}		superior conj	11472 Jul 09 16:49	27° \mathcal{E} 02'51	-1°25'29
evening rise	11471 Aug 06 05:40	2° \mathcal{M} 22'58		minimum elong	11472 Jul 09 22:43	27° \mathcal{E} 29'23	1°25'22
evening max el	11471 Aug 22 14:23	29° \mathcal{M} 02'56	18°58'11		11472 Jul 11 08:00	0° Ω	
	11471 Aug 23 14:40	0° \mathcal{L}		evening rise	11472 Jul 19 20:01	15° Ω 49'29	
retrograde	11471 Aug 31 07:47	3° \mathcal{L} 24'24		asc. node	11472 Jul 19 20:54	15° Ω 53'38	
evening set	11471 Sep 02 04:45	3° \mathcal{L} 13'09			11472 Jul 27 14:30	0° \mathcal{M}	
desc. node	11471 Sep 05 12:51	2° \mathcal{L} 02'45		evening max el	11472 Aug 04 19:51	11° \mathcal{M} 28'07	18°21'37
	11471 Sep 08 23:47	30° \mathcal{R} \mathcal{M}		retrograde	11472 Aug 12 07:16	15° \mathcal{M} 14'05	
inferior conj	11471 Sep 10 12:27	28° \mathcal{M} 56'54	-1°33'40	evening set	11472 Aug 14 10:18	14° \mathcal{M} 56'35	
minimum elong	11471 Sep 10 08:26	29° \mathcal{M} 03'56	1°32'10	inferior conj	11472 Aug 21 22:55	10° \mathcal{M} 20'07	0°08'39
min. Earth dist.	11471 Sep 13 11:05	26° \mathcal{M} 53'50	0.56427 AU	minimum elong	11472 Aug 21 23:13	10° \mathcal{M} 19'30	0°08'13
morning rise	11471 Sep 18 08:57	24° \mathcal{M} 06'45		transit middle	11472 Aug 21 23:13	10° \mathcal{M} 19'30	0°08'13
direct	11471 Sep 23 21:24	22° \mathcal{M} 54'38		transit begin	11472 Aug 21 20:11	10° \mathcal{M} 25'42	
	11471 Oct 07 21:03	0° \mathcal{L}		transit end	11472 Aug 22 02:14	10° \mathcal{M} 13'18	
morning max el	11471 Oct 08 02:31	0° \mathcal{L} 13'01	26°03'24	desc. node	11472 Aug 22 10:12	9° \mathcal{M} 56'54	
	11471 Oct 28 20:06	0° \mathcal{M}		min. Earth dist.	11472 Aug 25 07:03	7° \mathcal{M} 37'11	0.58399 AU
asc. node	11471 Oct 30 01:08	2° \mathcal{M} 18'13		morning rise	11472 Aug 29 08:36	4° \mathcal{M} 53'55	
morning set	11471 Nov 05 05:37	14° \mathcal{M} 55'50		direct	11472 Sep 04 12:58	3° \mathcal{M} 13'11	
				morning max el	11472 Sep 18 21:24	10° \mathcal{M} 54'52	27°16'33
superior conj	11471 Nov 12 01:15	29° \mathcal{M} 54'43	1°36'11		11472 Oct 03 16:49	0° \mathcal{L}	
minimum elong	11471 Nov 12 00:11	29° \mathcal{M} 48'47	1°36'44	asc. node	11472 Oct 15 21:55	21° \mathcal{L} 50'57	
	11471 Nov 12 02:12	0° \mathcal{J}		morning set	11472 Oct 19 14:07	29° \mathcal{L} 26'14	
max. Earth dist.	11471 Nov 12 24:00	2° \mathcal{J} 00'44	1.31729 AU		11472 Oct 19 20:28	0° \mathcal{M}	
evening rise	11471 Nov 19 01:00	15° \mathcal{J} 04'52					
	11471 Nov 26 14:21	0° \mathcal{Z}		superior conj	11472 Oct 26 12:59	14° \mathcal{M} 40'15	1°27'24
desc. node	11471 Dec 02 10:18	10° \mathcal{Z} 11'43		minimum elong	11472 Oct 26 11:09	14° \mathcal{M} 30'00	1°27'41
	11471 Dec 16 13:11	0° \approx		max. Earth dist.	11472 Oct 26 08:51	14° \mathcal{M} 17'09	1.31377 AU
evening max el	11471 Dec 20 21:53	4° \approx 33'47	27°22'21	evening rise	11472 Nov 02 07:19	29° \mathcal{M} 32'17	
retrograde	11472 Jan 03 19:26	11° \approx 50'11			11472 Nov 02 12:31	0° \mathcal{J}	
evening set	11472 Jan 10 18:44	9° \approx 36'06		desc. node	11472 Nov 18 07:25	29° \mathcal{J} 11'18	
min. Earth dist.	11472 Jan 14 12:20	6° \approx 45'54	0.61479 AU		11472 Nov 18 20:07	0° \mathcal{Z}	
inferior conj	11472 Jan 17 13:38	4° \approx 02'01	-2°43'45	evening max el	11472 Dec 02 00:02	16° \mathcal{Z} 25'05	26°39'42
minimum elong	11472 Jan 17 19:15	3° \approx 49'26	2°40'59	retrograde	11472 Dec 15 22:43	23° \mathcal{Z} 32'45	
	11472 Jan 22 19:07	30° \mathcal{R} \mathcal{Z}		evening set	11472 Dec 22 14:48	21° \mathcal{Z} 41'56	
morning rise	11472 Jan 24 22:30	29° \mathcal{Z} 03'53		min. Earth dist.	11472 Dec 26 14:06	19° \mathcal{Z} 05'05	0.59345 AU
asc. node	11472 Jan 26 00:30	28° \mathcal{Z} 48'58		inferior conj	11472 Dec 29 18:12	16° \mathcal{Z} 36'35	-4°01'19
direct	11472 Jan 27 02:30	28° \mathcal{Z} 43'54		minimum elong	11472 Dec 30 02:07	16° \mathcal{Z} 21'07	3°58'09
	11472 Jan 31 06:17	0° \approx		morning rise	11473 Jan 06 16:13	11° \mathcal{Z} 59'18	
morning max el	11472 Feb 03 02:01	2° \approx 15'15	17°51'42	direct	11473 Jan 08 18:33	11° \mathcal{Z} 43'26	
morning set	11472 Feb 18 17:58	26° \approx 41'40		asc. node	11473 Jan 11 21:41	12° \mathcal{Z} 20'37	
	11472 Feb 20 13:55	0° \mathcal{H}		morning max el	11473 Jan 16 13:42	15° \mathcal{Z} 34'44	18°15'16
desc. node	11472 Feb 28 10:34	13° \mathcal{H} 55'44			11473 Jan 26 13:39	0° \approx	
				morning set	11473 Feb 01 07:00	10° \approx 35'36	
superior conj	11472 Feb 29 13:41	15° \mathcal{H} 52'37	-0°08'41				
minimum elong	11472 Feb 29 12:54	15° \mathcal{H} 49'18	0°08'19	superior conj	11473 Feb 10 17:18	28° \approx 11'49	0°27'41
behind sun begin	11472 Feb 29 05:37	15° \mathcal{H} 17'59		minimum elong	11473 Feb 10 19:18	28° \approx 20'54	0°27'48
behind sun end	11472 Feb 29 20:11	16° \mathcal{H} 20'34			11473 Feb 11 17:15	0° \mathcal{H}	
max. Earth dist.	11472 Mar 07 21:13	28° \mathcal{H} 07'29	1.43153 AU	desc. node	11473 Feb 14 07:14	4° \mathcal{H} 35'35	
	11472 Mar 09 00:53	0° \mathcal{Y}		max. Earth dist.	11473 Feb 18 07:26	11° \mathcal{H} 31'14	1.41195 AU
evening rise	11472 Mar 14 13:08	8° \mathcal{Y} 46'38		evening rise	11473 Feb 23 01:05	19° \mathcal{H} 23'49	
	11472 Mar 28 15:06	0° \mathcal{B}			11473 Mar 01 17:27	0° \mathcal{Y}	
evening max el	11472 Apr 15 09:48	23° \mathcal{B} 01'23	21°50'56		11473 Mar 23 00:22	0° \mathcal{B}	
asc. node	11472 Apr 22 21:58	28° \mathcal{B} 14'03		evening max el	11473 Mar 29 01:42	6° \mathcal{B} 48'53	23°10'41
retrograde	11472 Apr 24 15:59	28° \mathcal{B} 28'46		retrograde	11473 Apr 08 11:38	12° \mathcal{B} 57'43	
evening set	11472 Apr 29 04:48	26° \mathcal{B} 37'34		asc. node	11473 Apr 09 19:16	12° \mathcal{B} 49'30	
inferior conj	11472 May 04 11:37	20° \mathcal{B} 19'17	2°56'20	evening set	11473 Apr 13 11:51	10° \mathcal{B} 52'04	
minimum elong	11472 May 04 09:58	20° \mathcal{B} 25'02	2°55'33	inferior conj	11473 Apr 18 20:51	4° \mathcal{B} 26'13	2°31'02

minimum elong	11473 Apr 18 18:44	4° ♄ 33'29	2°30'10	min. Earth dist.	11474 Apr 02 05:47	19° ♄ 51'42	0.68264 AU
min. Earth dist.	11473 Apr 18 10:03	5° ♄ 03'30	0.68687 AU	inferior conj	11474 Apr 03 04:43	18° ♄ 35'00	1°56'05
	11473 Apr 22 07:46	30° ♄ ♁		minimum elong	11474 Apr 03 02:35	18° ♄ 42'07	1°55'16
morning rise	11473 Apr 24 01:32	28° ♄ 19'16		morning rise	11474 Apr 08 13:25	12° ♄ 35'45	
direct	11473 Apr 28 10:19	26° ♄ 33'30		direct	11474 Apr 12 09:33	11° ♄ 11'28	
	11473 May 05 09:17	0° ♄		morning max el	11474 Apr 19 21:23	15° ♄ 22'32	19°54'25
morning max el	11473 May 06 22:13	1° ♄ 26'47	21°06'23	desc. node	11474 Apr 30 05:23	28° ♄ 21'15	
desc. node	11473 May 13 08:37	8° ♄ 55'12			11474 May 01 09:03	0° ♄	
	11473 May 28 05:57	0° ♄		morning set	11474 May 16 17:01	22° ♄ 59'33	
morning set	11473 Jun 06 16:27	14° ♄ 27'42			11474 May 21 05:41	0° ♄	
max. Earth dist.	11473 Jun 14 01:21	26° ♄ 14'30	1.42792 AU	max. Earth dist.	11474 May 27 12:50	9° ♄ 54'29	1.44433 AU
	11473 Jun 16 08:19	0° ♄					
				superior conj	11474 Jun 01 18:10	18° ♄ 17'38	-2°11'00
superior conj	11473 Jun 21 05:32	8° ♄ 11'20	-1°53'49	minimum elong	11474 Jun 01 21:25	18° ♄ 30'53	2°11'36
minimum elong	11473 Jun 21 12:06	8° ♄ 39'20	1°53'59		11474 Jun 08 20:40	0° ♄	
evening rise	11473 Jul 02 20:33	28° ♄ 36'28		evening rise	11474 Jun 15 02:24	10° ♄ 32'52	
	11473 Jul 03 15:10	0° ♄		asc. node	11474 Jun 23 14:45	24° ♄ 54'25	
asc. node	11473 Jul 06 17:47	5° ♄ 33'08			11474 Jun 26 20:29	0° ♄	
evening max el	11473 Jul 19 07:26	24° ♄ 25'06	18°05'05	evening max el	11474 Jul 02 21:22	7° ♄ 44'10	18°07'32
retrograde	11473 Jul 26 00:12	27° ♄ 50'43		retrograde	11474 Jul 09 06:23	11° ♄ 04'30	
evening set	11473 Jul 28 11:08	27° ♄ 23'12		evening set	11474 Jul 12 01:19	10° ♄ 24'17	
inferior conj	11473 Aug 04 05:55	22° ♄ 26'17	1°27'49	inferior conj	11474 Jul 18 05:47	5° ♄ 08'44	2°22'38
minimum elong	11473 Aug 04 08:17	22° ♄ 20'39	1°26'33	minimum elong	11474 Jul 18 08:24	5° ♄ 01'38	2°21'20
min. Earth dist.	11473 Aug 07 10:50	19° ♄ 24'58	0.60656 AU	min. Earth dist.	11474 Jul 20 23:56	2° ♄ 11'23	0.62894 AU
desc. node	11473 Aug 09 07:32	17° ♄ 49'57			11474 Jul 23 06:42	30° ♄ ♁	
morning rise	11473 Aug 11 02:37	16° ♄ 32'25		morning rise	11474 Jul 24 13:38	28° ♄ 57'23	
direct	11473 Aug 17 16:41	14° ♄ 24'04		desc. node	11474 Jul 27 04:49	27° ♄ 22'17	
morning max el	11473 Aug 31 23:22	22° ♄ 20'10	27°53'41	direct	11474 Jul 31 06:22	26° ♄ 27'49	
	11473 Sep 07 17:39	0° ♄			11474 Aug 09 03:22	0° ♄	
	11473 Sep 26 20:05	0° ♄		morning max el	11474 Aug 14 07:00	4° ♄ 30'01	27°52'13
asc. node	11473 Oct 02 18:40	11° ♄ 39'04			11474 Sep 02 10:29	0° ♄	
morning set	11473 Oct 03 18:15	13° ♄ 40'54		morning set	11474 Sep 17 15:54	27° ♄ 34'25	
max. Earth dist.	11473 Oct 09 17:02	26° ♄ 28'40	1.31524 AU		11474 Sep 18 20:30	0° ♄	
				asc. node	11474 Sep 19 15:24	1° ♄ 37'27	
superior conj	11473 Oct 10 23:58	29° ♄ 19'42	1°13'07	max. Earth dist.	11474 Sep 22 20:46	8° ♄ 25'30	1.32179 AU
minimum elong	11473 Oct 10 21:45	29° ♄ 07'22	1°13'05				
	11473 Oct 11 07:14	0° ♄		superior conj	11474 Sep 25 08:19	13° ♄ 47'32	0°53'31
evening rise	11473 Oct 17 17:07	14° ♄ 06'54		minimum elong	11474 Sep 25 06:12	13° ♄ 36'01	0°53'14
	11473 Oct 25 13:33	0° ♄		evening rise	11474 Oct 02 04:26	28° ♄ 43'10	
desc. node	11473 Nov 05 04:39	17° ♄ 21'14			11474 Oct 02 18:48	0° ♄	
evening max el	11473 Nov 13 18:05	27° ♄ 24'46	25°25'08		11474 Oct 19 14:23	0° ♄	
	11473 Nov 16 18:00	0° ♄		desc. node	11474 Oct 23 01:57	4° ♄ 22'04	
retrograde	11473 Nov 27 14:51	4° ♄ 23'11		evening max el	11474 Oct 26 05:17	7° ♄ 41'40	23°48'59
evening set	11473 Dec 03 13:16	3° ♄ 02'48		retrograde	11474 Nov 08 18:31	14° ♄ 27'40	
min. Earth dist.	11473 Dec 08 06:18	0° ♄ 23'54	0.57318 AU	evening set	11474 Nov 13 11:24	13° ♄ 39'25	
	11473 Dec 08 20:43	30° ♄ ♁		min. Earth dist.	11474 Nov 19 15:41	10° ♄ 39'33	0.55677 AU
inferior conj	11473 Dec 11 03:23	28° ♄ 27'00	-5°08'50	inferior conj	11474 Nov 21 16:01	9° ♄ 27'15	-5°47'15
minimum elong	11473 Dec 11 11:01	28° ♄ 14'02	5°06'34	minimum elong	11474 Nov 21 18:24	9° ♄ 23'40	5°46'29
morning rise	11473 Dec 19 11:06	24° ♄ 12'05		morning rise	11474 Nov 30 03:19	5° ♄ 32'11	
direct	11473 Dec 21 17:26	23° ♄ 56'44		direct	11474 Dec 02 20:43	5° ♄ 13'34	
asc. node	11473 Dec 29 18:49	27° ♄ 26'39		morning max el	11474 Dec 13 07:27	10° ♄ 11'23	20°07'46
morning max el	11473 Dec 30 16:44	28° ♄ 17'01	19°00'06	asc. node	11474 Dec 16 15:53	13° ♄ 52'23	
	11474 Jan 01 07:57	0° ♄			11474 Dec 26 16:18	0° ♄	
morning set	11474 Jan 16 06:06	24° ♄ 56'33		morning set	11474 Dec 31 11:47	9° ♄ 33'21	
	11474 Jan 18 19:31	0° ♄					
				superior conj	11475 Jan 08 03:51	25° ♄ 12'54	1°17'50
superior conj	11474 Jan 24 15:38	11° ♄ 23'19	0°56'40	minimum elong	11475 Jan 08 06:33	25° ♄ 26'25	1°18'12
minimum elong	11474 Jan 24 18:35	11° ♄ 37'27	0°56'50		11475 Jan 10 13:43	0° ♄	
max. Earth dist.	11474 Jan 31 14:30	24° ♄ 15'11	1.38999 AU	max. Earth dist.	11475 Jan 13 21:27	6° ♄ 24'12	1.36809 AU
desc. node	11474 Feb 01 03:58	25° ♄ 15'08		evening rise	11475 Jan 17 15:49	13° ♄ 22'13	
	11474 Feb 03 21:05	0° ♄		desc. node	11475 Jan 19 00:47	15° ♄ 50'01	
evening rise	11474 Feb 04 10:31	0° ♄			11475 Jan 27 09:52	0° ♄	
	11474 Feb 23 00:40	0° ♄			11475 Feb 17 23:25	0° ♄	
evening max el	11474 Mar 11 15:37	20° ♄ 39'25	24°30'33	evening max el	11475 Feb 22 04:58	4° ♄ 29'35	25°43'45
retrograde	11474 Mar 23 03:43	27° ♄ 23'01		retrograde	11475 Mar 06 15:17	11° ♄ 38'03	
asc. node	11474 Mar 27 16:35	25° ♄ 50'05		evening set	11475 Mar 12 15:20	9° ♄ 10'03	
evening set	11474 Mar 28 15:54	25° ♄ 04'43		asc. node	11475 Mar 14 13:55	7° ♄ 18'09	

min. Earth dist.	11475 Mar 16 22:16	4° Υ 32'12	0.67417 AU	asc. node	11476 Feb 29 11:14	17° X 43'12	
inferior conj	11475 Mar 18 09:17	2° Υ 41'07	1°11'31	inferior conj	11476 Mar 01 08:27	16° X 40'15	0°17'11
minimum elong	11475 Mar 18 07:40	2° Υ 46'17	1°10'58	minimum elong	11476 Mar 01 07:58	16° X 41'39	0°17'14
	11475 Mar 20 13:59	30° R X		morning rise	11476 Mar 07 08:47	11° X 01'09	
morning rise	11475 Mar 24 00:33	26° X 51'03		direct	11476 Mar 10 06:50	10° X 13'58	
direct	11475 Mar 27 09:00	25° X 46'45		morning max el	11476 Mar 16 17:27	13° X 39'02	18°16'42
morning max el	11475 Apr 03 04:19	29° X 28'28	18°57'22		11476 Mar 28 15:50	0° Υ	
	11475 Apr 03 16:52	0° Υ		desc. node	11476 Apr 02 22:48	8° Υ 24'44	
greatest brilliancy	11475 Apr 16 17:50	17° Υ 41'59	-0.8m	morning set	11476 Apr 05 05:05	12° Υ 02'01	
desc. node	11475 Apr 17 02:07	18° Υ 13'24			11476 Apr 16 12:34	0° S	
	11475 Apr 24 17:38	0° S					
morning set	11475 Apr 25 22:55	1° S 53'36		superior conj	11476 Apr 20 16:08	6° S 30'33	-1°49'48
max. Earth dist.	11475 May 10 05:34	24° S 08'09	1.45433 AU	minimum elong	11476 Apr 20 06:57	5° S 54'33	1°49'25
				max. Earth dist.	11476 Apr 22 00:47	8° S 38'09	1.45710 AU
superior conj	11475 May 12 09:28	27° S 31'56	-2°10'31		11476 May 05 17:19	0° II	
minimum elong	11475 May 12 05:27	27° S 16'06	2°10'58	evening rise	11476 May 06 16:10	1° II 29'18	
	11475 May 13 23:04	0° II		greatest brilliancy	11476 May 17 14:01	18° II 26'13	-0.8m
evening rise	11475 May 27 09:10	21° II 29'46			11476 May 25 14:27	0° S	
	11475 Jun 01 14:47	0° S		asc. node	11476 May 27 08:52	2° S 13'26	
asc. node	11475 Jun 10 11:47	13° S 50'48		evening max el	11476 May 29 20:09	4° S 57'48	19°06'26
evening max el	11475 Jun 16 10:27	21° S 17'18	18°28'18	retrograde	11476 Jun 05 17:21	8° S 47'44	
retrograde	11475 Jun 22 21:19	24° S 46'10		evening set	11476 Jun 09 04:50	7° S 37'27	
evening set	11475 Jun 26 00:20	23° S 51'27		inferior conj	11476 Jun 14 16:07	1° S 50'27	3°12'58
inferior conj	11475 Jul 01 18:24	18° S 19'23	2°56'23	minimum elong	11476 Jun 14 16:55	1° S 47'51	3°12'11
minimum elong	11475 Jul 01 20:18	18° S 13'43	2°55'22	min. Earth dist.	11476 Jun 16 05:20	29° II 50'54	0.66530 AU
min. Earth dist.	11475 Jul 03 22:29	15° S 44'31	0.64892 AU		11476 Jun 16 02:28	30° R II	
morning rise	11475 Jul 07 15:11	11° S 59'26		morning rise	11476 Jun 20 04:25	25° II 28'19	
direct	11475 Jul 14 04:32	9° S 18'17		direct	11476 Jun 26 09:52	22° II 46'09	
desc. node	11475 Jul 14 02:02	9° S 18'19		desc. node	11476 Jun 29 23:10	23° II 30'36	
morning max el	11475 Jul 27 17:37	17° S 15'51	27°15'55		11476 Jul 08 18:52	0° S	
	11475 Aug 07 08:18	0° S		morning max el	11476 Jul 09 04:24	0° S 23'59	26°12'11
	11475 Aug 26 07:24	0° R			11476 Jul 31 07:17	0° S	
morning set	11475 Sep 01 04:25	11° R 00'21		morning set	11476 Aug 14 04:16	23° S 48'34	
max. Earth dist.	11475 Sep 05 16:19	19° R 59'50	1.33344 AU		11476 Aug 17 10:40	0° R	
asc. node	11475 Sep 06 12:08	21° R 41'55		max. Earth dist.	11476 Aug 18 01:09	1° R 10'10	1.35006 AU
superior conj	11475 Sep 09 11:56	27° R 58'26	0°28'54	superior conj	11476 Aug 23 08:15	11° R 44'34	-0°00'15
minimum elong	11475 Sep 09 10:33	27° R 51'02	0°28'31	minimum elong	11476 Aug 23 08:17	11° R 44'44	0°00'32
	11475 Sep 10 10:47	0° S		behind sun begin	11476 Aug 23 02:18	11° R 14'11	
evening rise	11475 Sep 16 15:26	13° S 16'04		behind sun end	11476 Aug 23 14:15	12° R 15'20	
	11475 Sep 25 01:35	0° R		asc. node	11476 Aug 23 08:51	11° R 47'40	
evening max el	11475 Oct 07 17:10	17° R 47'31	22°08'24	evening rise	11476 Aug 30 23:58	27° R 38'50	
desc. node	11475 Oct 09 23:17	19° R 49'04			11476 Sep 01 03:19	0° S	
retrograde	11475 Oct 20 10:58	24° R 07'45		evening max el	11476 Sep 18 14:59	28° S 18'16	20°38'57
evening set	11475 Oct 23 16:36	23° R 44'29			11476 Sep 20 11:34	0° R	
min. Earth dist.	11475 Oct 31 22:42	20° R 05'45	0.54722 AU	desc. node	11476 Sep 25 20:39	3° R 12'01	
inferior conj	11475 Nov 01 12:40	19° R 46'09	-5°35'08	retrograde	11476 Sep 29 22:19	3° R 54'56	
minimum elong	11475 Nov 01 06:38	19° R 54'37	5°33'53	evening set	11476 Oct 02 02:43	3° R 43'18	
morning rise	11475 Nov 09 22:05	15° R 59'07			11476 Oct 10 20:22	30° R S	
direct	11475 Nov 13 08:21	15° R 33'02		inferior conj	11476 Oct 11 04:50	29° S 47'50	-4°25'31
morning max el	11475 Nov 25 08:23	21° R 14'25	21°37'17	minimum elong	11476 Oct 10 18:50	0° R 02'12	4°22'26
	11475 Dec 02 14:57	0° X		min. Earth dist.	11476 Oct 12 06:36	29° S 10'44	0.54672 AU
asc. node	11475 Dec 03 12:53	1° X 21'42		morning rise	11476 Oct 19 10:42	25° S 49'13	
morning set	11475 Dec 15 21:25	24° X 18'37		direct	11476 Oct 23 16:45	25° S 10'21	
	11475 Dec 18 14:09	0° S			11476 Nov 04 03:26	0° R	
superior conj	11475 Dec 23 02:01	9° S 29'16	1°31'29	morning max el	11476 Nov 05 22:25	1° R 34'49	23°22'12
minimum elong	11475 Dec 23 03:48	9° S 38'35	1°32'05	asc. node	11476 Nov 19 09:48	19° R 39'18	
max. Earth dist.	11475 Dec 27 08:54	18° S 16'33	1.34852 AU		11476 Nov 24 23:14	0° X	
evening rise	11475 Dec 31 13:42	26° S 29'06		morning set	11476 Nov 29 08:57	9° X 05'51	
	11476 Jan 02 10:37	0° \approx		superior conj	11476 Dec 06 06:54	24° X 02'34	1°38'15
desc. node	11476 Jan 05 21:40	6° \approx 16'07		minimum elong	11476 Dec 06 07:32	24° X 05'59	1°38'57
	11476 Jan 20 19:15	0° X		max. Earth dist.	11476 Dec 09 04:03	0° S 11'31	1.33279 AU
evening max el	11476 Feb 04 18:27	18° X 13'46	26°43'03		11476 Dec 09 01:52	0° S	
retrograde	11476 Feb 17 21:32	25° X 35'39		evening rise	11476 Dec 14 00:29	10° S 08'33	
evening set	11476 Feb 24 08:19	23° X 02'39		desc. node	11476 Dec 22 18:38	26° S 28'02	
min. Earth dist.	11476 Feb 28 09:27	18° X 58'52	0.66171 AU		11476 Dec 24 20:09	0° \approx	

	11477 Jan 15 14:13	0°♄			11477 Dec 18 11:04	0°♁	
evening max el	11477 Jan 17 07:36	1°♄42'49	27°21'13	evening max el	11477 Dec 30 18:36	14°♁43'57	27°31'21
retrograde	11477 Jan 30 21:34	9°♄07'18		retrograde	11478 Jan 13 14:13	22°♁03'34	
evening set	11477 Feb 06 16:42	6°♄35'37		evening set	11478 Jan 20 13:46	19°♁40'47	
min. Earth dist.	11477 Feb 10 13:12	3°♄03'59	0.64565 AU	min. Earth dist.	11478 Jan 24 07:32	16°♁37'25	0.62669 AU
inferior conj	11477 Feb 12 23:44	0°♄26'37	-0°46'46	inferior conj	11478 Jan 27 04:14	13°♁52'20	-1°59'17
minimum elong	11477 Feb 13 01:09	0°♄22'46	0°45'46	minimum elong	11478 Jan 27 08:13	13°♁42'43	1°57'06
	11477 Feb 13 09:38	30°♄		asc. node	11478 Feb 02 05:47	9°♁07'06	
asc. node	11477 Feb 15 08:31	28°♁00'00		morning rise	11478 Feb 03 05:05	8°♁42'57	
morning rise	11477 Feb 19 11:25	25°♁00'50		direct	11478 Feb 05 11:50	8°♁18'54	
direct	11477 Feb 22 00:47	24°♁27'06		morning max el	11478 Feb 12 03:48	11°♁43'08	17°46'55
morning max el	11477 Feb 28 10:18	27°♁46'48	17°53'03		11478 Feb 24 12:53	0°♄	
	11477 Mar 02 11:04	0°♄		morning set	11478 Feb 28 03:43	6°♄19'49	
morning set	11477 Mar 17 16:17	23°♄36'15		desc. node	11478 Mar 07 16:08	19°♄23'42	
desc. node	11477 Mar 20 19:29	28°♄49'51					
	11477 Mar 21 12:22	0°♄		superior conj	11478 Mar 11 22:32	26°♄36'07	-0°32'07
superior conj	11477 Mar 31 08:22	16°♄01'42	-1°13'52	minimum elong	11478 Mar 11 19:19	26°♄22'43	0°31'30
minimum elong	11477 Mar 31 00:32	15°♄30'23	1°13'01		11478 Mar 13 23:42	0°♄	
max. Earth dist.	11477 Apr 04 20:21	23°♄10'14	1.45246 AU	max. Earth dist.	11478 Mar 18 13:57	7°♄28'24	1.44091 AU
	11477 Apr 09 05:02	0°♄		evening rise	11478 Mar 26 19:14	20°♄24'37	
evening rise	11477 Apr 16 06:44	10°♄55'10			11478 Apr 02 02:18	0°♄	
	11477 Apr 28 21:38	0°♄		evening max el	11478 Apr 23 17:07	0°♄	
greatest brilliancy	11477 May 01 05:03	3°♄23'12	-0.6m		11478 Apr 25 23:50	2°♄27'27	21°07'40
evening max el	11477 May 13 00:50	18°♄42'10	20°00'23	asc. node	11478 May 01 03:14	6°♄32'00	
asc. node	11477 May 14 06:01	19°♄51'55		retrograde	11478 May 04 14:19	7°♄29'23	
retrograde	11477 May 20 15:42	23°♄04'02		evening set	11478 May 08 21:05	5°♄46'54	
evening set	11477 May 24 12:24	21°♄37'36			11478 May 13 20:11	30°♄	
inferior conj	11477 May 29 19:59	15°♄37'06	3°15'32	inferior conj	11478 May 14 03:33	29°♄34'28	3°06'21
minimum elong	11477 May 29 19:41	15°♄38'08	3°14'51	minimum elong	11478 May 14 02:19	29°♄38'46	3°05'38
min. Earth dist.	11477 May 30 18:44	14°♄20'14	0.67735 AU	min. Earth dist.	11478 May 14 12:36	29°♄03'00	0.68473 AU
morning rise	11477 Jun 04 02:37	9°♄16'49		morning rise	11478 May 19 07:19	23°♄18'22	
direct	11477 Jun 09 21:03	6°♄43'15		direct	11478 May 24 12:59	21°♄00'35	
desc. node	11477 Jun 16 20:13	9°♄32'47		desc. node	11478 Jun 03 17:11	26°♄56'43	
morning max el	11477 Jun 21 14:15	13°♄45'02	24°50'38	morning max el	11478 Jun 04 00:12	27°♄14'17	23°21'17
	11477 Jul 04 18:46	0°♄			11478 Jun 06 14:09	0°♄	
	11477 Jul 24 03:00	0°♄			11478 Jun 28 09:31	0°♄	
morning set	11477 Jul 27 11:13	5°♄48'35		morning set	11478 Jul 08 20:19	16°♄47'57	
max. Earth dist.	11477 Jul 31 01:08	12°♄15'22	1.37086 AU	max. Earth dist.	11478 Jul 12 22:25	23°♄46'43	1.39387 AU
					11478 Jul 16 11:00	0°♄	
superior conj	11477 Aug 06 18:15	24°♄58'57	-0°32'46	superior conj	11478 Jul 20 14:09	7°♄32'15	-1°06'39
minimum elong	11477 Aug 06 20:24	25°♄09'25	0°32'50	minimum elong	11478 Jul 20 18:48	7°♄53'46	1°06'31
	11477 Aug 09 07:17	0°♄		asc. node	11478 Jul 28 02:24	21°♄49'06	
asc. node	11477 Aug 10 05:36	1°♄51'21		evening rise	11478 Jul 30 00:03	25°♄29'41	
evening rise	11477 Aug 15 03:47	11°♄45'50			11478 Aug 01 08:20	0°♄	
	11477 Aug 24 21:54	0°♄		evening max el	11478 Aug 15 02:39	21°♄35'18	18°40'04
evening max el	11477 Sep 01 02:41	9°♄33'55	19°28'48	retrograde	11478 Aug 23 05:49	25°♄39'56	
retrograde	11477 Sep 10 17:14	14°♄20'48		evening set	11478 Aug 25 05:02	25°♄26'26	
evening set	11477 Sep 12 13:37	14°♄10'58		desc. node	11478 Aug 30 15:19	22°♄51'36	
desc. node	11477 Sep 12 17:59	14°♄08'58		inferior conj	11478 Sep 02 04:40	21°♄01'26	-0°47'51
inferior conj	11477 Sep 21 06:55	10°♄04'58	-2°38'48	minimum elong	11478 Sep 02 02:43	21°♄05'04	0°47'16
minimum elong	11477 Sep 20 23:55	10°♄16'12	2°36'08	min. Earth dist.	11478 Sep 05 09:00	18°♄39'29	0.57210 AU
min. Earth dist.	11477 Sep 23 17:17	8°♄31'37	0.55559 AU	morning rise	11478 Sep 09 21:00	15°♄55'35	
morning rise	11477 Sep 29 07:56	5°♄36'48		direct	11478 Sep 15 16:50	14°♄31'53	
direct	11477 Oct 04 09:59	4°♄38'45		morning max el	11478 Sep 29 23:58	22°♄00'24	26°38'38
morning max el	11477 Oct 18 09:07	11°♄39'12	25°08'37		11478 Oct 07 01:13	0°♄	
	11477 Nov 01 09:45	0°♄		asc. node	11478 Oct 24 03:29	27°♄54'32	
asc. node	11477 Nov 06 06:40	8°♄33'24			11478 Oct 25 04:46	0°♄	
morning set	11477 Nov 13 20:38	23°♄50'28		morning set	11478 Oct 29 06:49	8°♄27'50	
	11477 Nov 16 16:43	0°♄					
superior conj	11477 Nov 20 16:03	8°♄45'34	1°38'40	superior conj	11478 Nov 05 03:24	23°♄32'02	1°33'10
minimum elong	11477 Nov 20 15:33	8°♄42'50	1°39'18	minimum elong	11478 Nov 05 01:58	23°♄24'03	1°33'35
max. Earth dist.	11477 Nov 22 06:53	12°♄18'37	1.32161 AU	max. Earth dist.	11478 Nov 05 14:40	24°♄34'49	1.31519 AU
evening rise	11477 Nov 27 20:56	24°♄12'22			11478 Nov 08 01:22	0°♄	
	11477 Nov 30 17:51	0°♄		evening rise	11478 Nov 12 00:20	8°♄33'14	
desc. node	11477 Dec 09 15:38	16°♄19'16			11478 Nov 23 03:00	0°♄	
				desc. node	11478 Nov 26 12:42	5°♄41'23	

evening max el	11478 Dec 13 00:42	27° Z 03'57	27°08'27	evening rise	11479 Oct 27 08:20	23° M 04'02	
	11478 Dec 16 11:01	0° \approx			11479 Oct 30 15:42	0° X	
retrograde	11478 Dec 26 22:34	4° \approx 16'05		desc. node	11479 Nov 13 09:52	24° X 21'57	
evening set	11479 Jan 02 20:11	2° \approx 10'46			11479 Nov 17 10:33	0° Z	
	11479 Jan 05 23:11	30° R Z		evening max el	11479 Nov 24 23:14	8° Z 32'14	26°11'27
min. Earth dist.	11479 Jan 06 15:09	29° Z 28'04	0.60578 AU	retrograde	11479 Dec 08 21:28	15° Z 36'43	
inferior conj	11479 Jan 09 18:36	26° Z 48'51	-3°16'56	evening set	11479 Dec 15 07:38	13° Z 57'48	
minimum elong	11479 Jan 10 01:20	26° Z 34'36	3°13'51	min. Earth dist.	11479 Dec 19 12:20	11° Z 22'34	0.58452 AU
morning rise	11479 Jan 17 09:15	21° Z 59'16		inferior conj	11479 Dec 22 15:11	9° Z 05'16	-4°32'07
direct	11479 Jan 19 12:10	21° Z 41'21		minimum elong	11479 Dec 22 23:27	8° Z 50'03	4°29'10
asc. node	11479 Jan 20 03:00	21° Z 42'55		morning rise	11479 Dec 30 17:59	4° Z 37'56	
morning max el	11479 Jan 26 18:44	25° Z 19'38	17°59'16	direct	11480 Jan 01 21:13	4° Z 22'45	
	11479 Jan 30 16:31	0° \approx		asc. node	11480 Jan 07 00:10	5° Z 55'53	
morning set	11479 Feb 11 09:02	19° \approx 53'20		morning max el	11480 Jan 10 03:18	8° Z 24'59	18°31'42
	11479 Feb 16 21:22	0° H			11480 Jan 24 00:44	0° \approx	
				morning set	11480 Jan 26 02:50	4° \approx 00'07	
superior conj	11479 Feb 21 13:25	8° H 20'27	0°07'33				
minimum elong	11479 Feb 21 14:04	8° H 23'19	0°07'46	superior conj	11480 Feb 04 01:38	21° \approx 04'02	0°40'55
behind sun begin	11479 Feb 21 07:01	7° H 52'20		minimum elong	11480 Feb 04 04:14	21° \approx 16'05	0°41'00
behind sun end	11479 Feb 21 21:07	8° H 54'13			11480 Feb 08 23:45	0° H	
desc. node	11479 Feb 22 12:49	10° H 02'51		desc. node	11480 Feb 09 09:31	0° H 43'13	
max. Earth dist.	11479 Mar 01 03:19	21° H 16'34	1.42371 AU	max. Earth dist.	11480 Feb 11 11:43	4° H 22'44	1.40274 AU
evening rise	11479 Mar 06 20:05	0° Y 31'36		evening rise	11480 Feb 15 17:03	11° H 32'46	
	11479 Mar 06 12:09	0° Y			11480 Feb 27 09:18	0° Y	
	11479 Mar 26 14:54	0° Z			11480 Mar 21 07:37	0° Z	
evening max el	11479 Apr 08 17:45	16° Z 13'32	22°24'17	evening max el	11480 Mar 21 08:24	0° Z 01'58	23°44'56
retrograde	11479 Apr 18 11:32	21° Z 58'50		retrograde	11480 Apr 01 06:00	6° Z 27'19	
asc. node	11479 Apr 18 00:29	21° Z 57'49		asc. node	11480 Apr 03 21:47	5° Z 54'20	
evening set	11479 Apr 23 05:13	20° Z 01'03		evening set	11480 Apr 06 11:14	4° Z 15'52	
inferior conj	11479 Apr 28 12:44	13° Z 39'04	2°46'45		11480 Apr 10 06:33	30° R Y	
minimum elong	11479 Apr 28 10:51	13° Z 45'38	2°45'56	min. Earth dist.	11480 Apr 11 05:37	28° Y 42'24	0.68559 AU
min. Earth dist.	11479 Apr 28 08:57	13° Z 52'14	0.68742 AU	inferior conj	11480 Apr 11 21:39	27° Y 47'34	2°17'24
morning rise	11479 May 03 16:21	7° Z 28'29		minimum elong	11480 Apr 11 19:29	27° Y 54'59	2°16'31
direct	11479 May 08 08:37	5° Z 30'42		morning rise	11480 Apr 17 03:44	21° Y 43'43	
morning max el	11479 May 17 13:05	10° Z 52'22	21°53'20	direct	11480 Apr 21 06:56	20° Y 07'22	
desc. node	11479 May 21 14:05	15° Z 20'18		morning max el	11480 Apr 29 07:58	24° Y 41'42	20°34'02
	11479 Jun 01 14:15	0° II			11480 May 04 00:34	0° Z	
morning set	11479 Jun 19 03:43	26° II 38'07		desc. node	11480 May 07 10:55	4° Z 27'20	
	11479 Jun 21 05:50	0° Z			11480 May 24 22:37	0° II	
max. Earth dist.	11479 Jun 24 23:09	6° Z 06'41	1.41632 AU	morning set	11480 May 28 11:42	5° II 27'32	
				max. Earth dist.	11480 Jun 06 06:13	19° II 18'32	1.43554 AU
superior conj	11479 Jul 02 15:30	19° Z 14'15	-1°38'27				
minimum elong	11479 Jul 02 22:01	19° Z 42'55	1°38'24	superior conj	11480 Jun 12 18:08	29° II 56'39	-2°02'54
	11479 Jul 08 15:42	0° Z		minimum elong	11480 Jun 12 23:54	0° Z 20'42	2°03'16
evening rise	11479 Jul 13 09:06	8° Z 41'00			11480 Jun 12 18:56	0° Z	
asc. node	11479 Jul 14 23:15	11° Z 36'45		evening rise	11480 Jun 25 02:22	21° Z 08'31	
	11479 Jul 25 21:29	0° M			11480 Jun 30 03:58	0° Z	
evening max el	11479 Jul 29 11:07	4° M 14'41	18°12'08	asc. node	11480 Jun 30 20:10	1° Z 09'43	
retrograde	11479 Aug 05 13:24	7° M 50'34		evening max el	11480 Jul 12 00:10	17° Z 22'46	18°03'52
evening set	11479 Aug 07 19:35	7° M 29'17		retrograde	11480 Jul 18 12:33	20° Z 44'34	
inferior conj	11479 Aug 15 00:14	2° M 43'44	0°45'20	evening set	11480 Jul 21 02:46	20° Z 12'05	
minimum elong	11479 Aug 15 01:41	2° M 40'33	0°44'25	inferior conj	11480 Jul 27 15:00	15° Z 07'14	1°53'52
desc. node	11479 Aug 17 12:40	0° M 31'15		minimum elong	11480 Jul 27 17:40	15° Z 00'34	1°52'31
	11479 Aug 18 03:24	30° R Z		min. Earth dist.	11480 Jul 30 16:06	12° Z 04'40	0.61621 AU
min. Earth dist.	11479 Aug 18 08:08	29° Z 50'08	0.59338 AU	morning rise	11480 Aug 03 06:05	9° Z 04'27	
morning rise	11479 Aug 22 04:28	27° Z 04'11		desc. node	11480 Aug 03 10:00	8° Z 57'46	
direct	11479 Aug 28 13:32	25° Z 11'28		direct	11480 Aug 09 22:05	6° Z 45'44	
	11479 Sep 08 13:38	0° M		morning max el	11480 Aug 24 03:01	14° Z 46'37	27°57'38
morning max el	11479 Sep 11 22:11	3° M 00'38	27°37'17		11480 Sep 05 11:19	0° M	
	11479 Oct 01 14:57	0° Z			11480 Sep 23 03:51	0° Z	
asc. node	11479 Oct 11 00:14	17° Z 34'33		morning set	11480 Sep 26 15:22	6° Z 59'02	
morning set	11479 Oct 13 13:42	22° Z 52'16		asc. node	11480 Sep 26 21:00	7° Z 28'00	
	11479 Oct 16 21:23	0° M		max. Earth dist.	11480 Oct 02 06:22	18° Z 56'25	1.31735 AU
max. Earth dist.	11479 Oct 19 23:46	6° M 50'33	1.31371 AU				
				superior conj	11480 Oct 04 01:07	22° Z 50'54	1°05'26
superior conj	11479 Oct 20 15:01	8° M 15'25	1°22'01	minimum elong	11480 Oct 03 22:52	22° Z 38'32	1°05'18
minimum elong	11479 Oct 20 12:57	8° M 03'59	1°22'09		11480 Oct 07 06:48	0° M	

evening rise	11480 Oct 10 19:00	7° \mathbb{M} 39'56		evening rise	11481 Sep 25 06:23	22° \mathbb{L} 15'15	
	11480 Oct 22 05:59	0° \mathbb{A}			11481 Sep 28 23:19	0° \mathbb{M}	
desc. node	11480 Oct 30 07:07	12° \mathbb{A} 05'11		desc. node	11481 Oct 17 04:25	28° \mathbb{M} 29'32	
evening max el	11480 Nov 05 13:44	19° \mathbb{A} 10'46	24°45'57	evening max el	11481 Oct 18 00:12	29° \mathbb{M} 18'54	23°05'45
retrograde	11480 Nov 19 08:49	26° \mathbb{A} 05'29			11481 Oct 18 17:35	0° \mathbb{A}	
evening set	11480 Nov 24 19:43	24° \mathbb{A} 59'07		retrograde	11481 Oct 31 07:00	5° \mathbb{A} 55'28	
min. Earth dist.	11480 Nov 30 01:25	22° \mathbb{A} 13'21	0.56549 AU	evening set	11481 Nov 04 08:40	5° \mathbb{A} 19'30	
inferior conj	11480 Dec 02 15:26	20° \mathbb{A} 34'02	-5°30'04	min. Earth dist.	11481 Nov 11 09:31	2° \mathbb{A} 05'02	0.55170 AU
minimum elong	11480 Dec 02 21:31	20° \mathbb{A} 24'15	5°28'31	inferior conj	11481 Nov 12 20:17	1° \mathbb{A} 14'53	-5°49'19
morning rise	11480 Dec 11 01:31	16° \mathbb{A} 28'15		minimum elong	11481 Nov 12 19:05	1° \mathbb{A} 16'37	5°48'41
direct	11480 Dec 13 11:23	16° \mathbb{A} 12'09			11481 Nov 15 01:08	30° \mathbb{R} \mathbb{M}	
morning max el	11480 Dec 23 01:29	20° \mathbb{A} 47'56	19°26'06	morning rise	11481 Nov 21 07:09	27° \mathbb{M} 24'49	
asc. node	11480 Dec 23 21:17	21° \mathbb{A} 37'28		direct	11481 Nov 24 07:17	27° \mathbb{M} 03'27	
	11480 Dec 30 05:04	0° \mathbb{B}			11481 Dec 02 14:47	0° \mathbb{A}	
morning set	11481 Jan 09 05:02	18° \mathbb{B} 28'18		morning max el	11481 Dec 05 10:11	2° \mathbb{A} 19'54	20°43'24
	11481 Jan 14 22:59	0° \mathbb{A}		asc. node	11481 Dec 10 18:19	8° \mathbb{A} 32'12	
					11481 Dec 22 23:42	0° \mathbb{B}	
superior conj	11481 Jan 17 06:22	4° \mathbb{A} 32'55	1°06'35	morning set	11481 Dec 24 12:40	3° \mathbb{B} 09'36	
minimum elong	11481 Jan 17 09:20	4° \mathbb{A} 47'22	1°06'49				
max. Earth dist.	11481 Jan 23 17:38	16° \mathbb{A} 47'47	1.38048 AU	superior conj	11481 Dec 31 23:13	18° \mathbb{B} 34'58	1°24'30
desc. node	11481 Jan 26 06:17	21° \mathbb{A} 21'15		minimum elong	11482 Jan 01 01:34	18° \mathbb{B} 47'01	1°24'59
evening rise	11481 Jan 27 11:15	23° \mathbb{A} 29'07		max. Earth dist.	11482 Jan 06 02:02	28° \mathbb{B} 47'38	1.35936 AU
	11481 Jan 31 06:19	0° \mathbb{H}			11482 Jan 06 17:01	0° \mathbb{A}	
	11481 Feb 20 03:55	0° \mathbb{Y}		evening rise	11482 Jan 10 00:05	6° \mathbb{A} 13'12	
evening max el	11481 Mar 03 21:54	13° \mathbb{Y} 52'53	25°03'00	desc. node	11482 Jan 13 03:06	11° \mathbb{A} 53'11	
retrograde	11481 Mar 15 20:23	20° \mathbb{Y} 49'00			11482 Jan 24 01:41	0° \mathbb{H}	
evening set	11481 Mar 21 13:33	18° \mathbb{Y} 26'19		evening max el	11482 Feb 14 11:33	27° \mathbb{H} 42'47	26°11'15
asc. node	11481 Mar 21 19:08	18° \mathbb{Y} 14'14			11482 Feb 16 23:34	0° \mathbb{Y}	
min. Earth dist.	11481 Mar 26 00:21	13° \mathbb{Y} 28'04	0.67949 AU	retrograde	11482 Feb 27 05:43	4° \mathbb{Y} 57'50	
inferior conj	11481 Mar 27 04:23	11° \mathbb{Y} 56'06	1°38'25	evening set	11482 Mar 05 10:27	2° \mathbb{Y} 27'24	
minimum elong	11481 Mar 27 02:24	12° \mathbb{Y} 02'38	1°37'40		11482 Mar 07 23:07	30° \mathbb{R} \mathbb{H}	
morning rise	11481 Apr 01 15:32	6° \mathbb{Y} 00'18		asc. node	11482 Mar 08 16:27	29° \mathbb{H} 10'51	
direct	11481 Apr 05 06:30	4° \mathbb{Y} 44'48		min. Earth dist.	11482 Mar 09 14:55	28° \mathbb{H} 04'01	0.66932 AU
morning max el	11481 Apr 12 10:27	8° \mathbb{Y} 42'09	19°28'07	inferior conj	11482 Mar 11 06:56	26° \mathbb{H} 00'37	0°49'45
desc. node	11481 Apr 24 07:42	24° \mathbb{Y} 05'49		minimum elong	11482 Mar 11 05:43	26° \mathbb{H} 04'23	0°49'23
greatest brilliancy	11481 Apr 25 03:21	25° \mathbb{Y} 18'04	-0.7m	morning rise	11482 Mar 17 01:43	20° \mathbb{H} 14'43	
	11481 Apr 28 07:02	0° \mathbb{B}		direct	11482 Mar 20 05:40	19° \mathbb{H} 17'55	
morning set	11481 May 07 11:32	14° \mathbb{B} 00'17		morning max el	11482 Mar 26 20:12	22° \mathbb{H} 51'00	18°38'02
	11481 May 17 18:37	0° \mathbb{H}			11482 Apr 01 17:56	0° \mathbb{Y}	
max. Earth dist.	11481 May 19 19:45	3° \mathbb{H} 13'20	1.44944 AU	desc. node	11482 Apr 11 04:25	14° \mathbb{Y} 07'29	
				morning set	11482 Apr 17 02:24	23° \mathbb{Y} 23'03	
superior conj	11481 May 23 20:53	9° \mathbb{H} 38'46	-2°13'16		11482 Apr 21 07:39	0° \mathbb{B}	
minimum elong	11481 May 23 21:19	9° \mathbb{H} 40'30	2°13'55	max. Earth dist.	11482 May 02 14:14	17° \mathbb{B} 37'48	1.45651 AU
	11481 Jun 05 08:21	0° \mathbb{B}					
evening rise	11481 Jun 06 22:47	2° \mathbb{B} 40'07		superior conj	11482 May 03 06:31	18° \mathbb{B} 41'32	-2°04'04
asc. node	11481 Jun 17 17:09	20° \mathbb{B} 21'29		minimum elong	11482 May 02 23:35	18° \mathbb{B} 14'25	2°04'13
	11481 Jun 24 19:08	0° \mathbb{H}			11482 May 10 11:25	0° \mathbb{H}	
evening max el	11481 Jun 25 14:09	0° \mathbb{H} 49'13	18°14'14	evening rise	11482 May 18 19:12	13° \mathbb{H} 11'55	
retrograde	11481 Jul 01 22:47	4° \mathbb{H} 11'16		greatest brilliancy	11482 May 26 13:26	25° \mathbb{H} 33'19	-0.9m
evening set	11481 Jul 04 21:10	3° \mathbb{H} 25'04			11482 May 29 09:36	0° \mathbb{B}	
	11481 Jul 09 01:53	30° \mathbb{R} \mathbb{B}		asc. node	11482 Jun 04 14:12	9° \mathbb{B} 04'58	
inferior conj	11481 Jul 10 20:46	28° \mathbb{B} 02'34	2°39'15	evening max el	11482 Jun 09 02:08	14° \mathbb{B} 26'48	18°42'24
minimum elong	11481 Jul 10 23:10	27° \mathbb{B} 55'48	2°38'04	retrograde	11482 Jun 15 16:13	18° \mathbb{B} 02'42	
min. Earth dist.	11481 Jul 13 09:16	25° \mathbb{B} 12'42	0.63789 AU	evening set	11482 Jun 18 22:52	17° \mathbb{B} 01'18	
morning rise	11481 Jul 16 23:40	21° \mathbb{B} 46'48		inferior conj	11482 Jun 24 13:39	11° \mathbb{B} 22'40	3°05'16
desc. node	11481 Jul 21 07:16	19° \mathbb{B} 29'32		minimum elong	11482 Jun 24 15:06	11° \mathbb{B} 18'10	3°04'21
direct	11481 Jul 23 15:48	19° \mathbb{B} 10'43		min. Earth dist.	11482 Jun 26 11:22	9° \mathbb{B} 01'51	0.65652 AU
morning max el	11481 Aug 06 12:00	27° \mathbb{B} 12'26	27°40'30	morning rise	11482 Jun 30 06:32	5° \mathbb{B} 01'26	
	11481 Aug 09 03:09	0° \mathbb{H}		direct	11482 Jul 06 17:04	2° \mathbb{B} 18'43	
	11481 Aug 30 03:59	0° \mathbb{H}		desc. node	11482 Jul 08 04:29	2° \mathbb{B} 26'20	
morning set	11481 Sep 10 09:26	20° \mathbb{H} 41'27		morning max el	11482 Jul 19 22:47	10° \mathbb{B} 08'46	26°51'30
asc. node	11481 Sep 13 17:43	27° \mathbb{H} 29'28			11482 Aug 04 14:33	0° \mathbb{H}	
	11481 Sep 14 22:34	0° \mathbb{B}			11482 Aug 22 15:45	0° \mathbb{H}	
max. Earth dist.	11481 Sep 15 06:44	0° \mathbb{B} 42'54	1.32612 AU	morning set	11482 Aug 24 16:59	3° \mathbb{H} 52'09	
				max. Earth dist.	11482 Aug 28 21:54	12° \mathbb{H} 06'30	1.34002 AU
superior conj	11481 Sep 18 07:42	7° \mathbb{B} 12'20	0°43'39	asc. node	11482 Aug 31 14:26	17° \mathbb{H} 34'51	
minimum elong	11481 Sep 18 05:49	7° \mathbb{B} 02'09	0°43'19				

superior conj	11482 Sep 02 08:32	21° \mathbb{M} 13'32	0°17'01	max. Earth dist.	11483 Aug 11 02:58	23° Ω 14'04	1.35854 AU
minimum elong	11482 Sep 02 07:40	21° \mathbb{M} 08'57	0°16'40		11483 Aug 14 15:01	0° \mathbb{M}	
	11482 Sep 06 12:10	0° \mathbb{L}					
evening rise	11482 Sep 09 16:35	6° \mathbb{L} 44'41		superior conj	11483 Aug 17 00:55	4° \mathbb{M} 47'42	-0°13'43
	11482 Sep 22 02:48	0° \mathbb{M}		minimum elong	11483 Aug 17 01:46	4° \mathbb{M} 51'59	0°13'55
evening max el	11482 Sep 29 15:23	9° \mathbb{M} 31'18	21°28'13	behind sun begin	11483 Aug 16 22:36	4° \mathbb{M} 36'05	
desc. node	11482 Oct 04 01:45	13° \mathbb{M} 07'24		behind sun end	11483 Aug 17 04:56	5° \mathbb{M} 07'53	
retrograde	11482 Oct 11 19:34	15° \mathbb{M} 34'22		asc. node	11483 Aug 18 11:09	7° \mathbb{M} 40'31	
evening set	11482 Oct 14 12:46	15° \mathbb{M} 17'28		evening rise	11483 Aug 24 23:29	21° \mathbb{M} 02'27	
inferior conj	11482 Oct 23 13:10	11° \mathbb{M} 22'01	-5°11'59		11483 Aug 29 10:50	0° \mathbb{L}	
minimum elong	11482 Oct 23 04:30	11° \mathbb{M} 34'09	5°09'52	evening max el	11483 Sep 11 18:55	20° \mathbb{L} 20'10	20°06'25
min. Earth dist.	11482 Oct 23 16:09	11° \mathbb{M} 17'51	0.54586 AU	desc. node	11483 Sep 20 23:06	25° \mathbb{L} 30'40	
morning rise	11482 Oct 31 21:10	7° \mathbb{M} 33'05		retrograde	11483 Sep 22 09:06	25° \mathbb{L} 36'07	
direct	11482 Nov 04 16:01	7° \mathbb{M} 02'07		evening set	11483 Sep 24 08:05	25° \mathbb{L} 26'06	
morning max el	11482 Nov 17 05:35	13° \mathbb{M} 01'43	22°20'49	inferior conj	11483 Oct 03 08:00	21° \mathbb{L} 27'10	-3°42'47
asc. node	11482 Nov 27 15:17	26° \mathbb{M} 23'45		minimum elong	11483 Oct 02 22:39	21° \mathbb{L} 41'09	3°39'32
	11482 Nov 29 18:52	0° \mathbb{X}		min. Earth dist.	11483 Oct 05 00:54	20° \mathbb{L} 26'01	0.54938 AU
morning set	11482 Dec 08 23:20	17° \mathbb{X} 56'29		morning rise	11483 Oct 11 12:10	17° \mathbb{L} 17'51	
	11482 Dec 14 14:49	0° \mathbb{Z}		direct	11483 Oct 16 02:32	16° \mathbb{L} 31'58	
				morning max el	11483 Oct 29 17:22	23° \mathbb{L} 12'30	24°08'27
superior conj	11482 Dec 16 00:31	2° \mathbb{Z} 59'19	1°35'10		11483 Nov 04 19:14	0° \mathbb{M}	
minimum elong	11482 Dec 16 01:50	3° \mathbb{Z} 06'15	1°35'50	asc. node	11483 Nov 14 12:11	14° \mathbb{M} 58'31	
max. Earth dist.	11482 Dec 19 16:55	10° \mathbb{Z} 40'51	1.34128 AU		11483 Nov 22 04:15	0° \mathbb{X}	
evening rise	11482 Dec 24 03:49	19° \mathbb{Z} 34'45		morning set	11483 Nov 23 11:09	2° \mathbb{X} 43'46	
	11482 Dec 29 17:49	0° \approx					
desc. node	11482 Dec 30 23:58	2° \approx 13'52		superior conj	11483 Nov 30 07:31	17° \mathbb{X} 38'03	1°39'11
	11483 Jan 18 03:00	0° \mathbb{H}		minimum elong	11483 Nov 30 07:40	17° \mathbb{X} 38'49	1°39'52
evening max el	11483 Jan 28 01:05	11° \mathbb{H} 22'01	27°02'21	max. Earth dist.	11483 Dec 02 15:33	22° \mathbb{X} 41'01	1.32741 AU
retrograde	11483 Feb 10 09:08	18° \mathbb{H} 45'25			11483 Dec 06 02:51	0° \mathbb{Z}	
evening set	11483 Feb 17 00:00	16° \mathbb{H} 12'07		evening rise	11483 Dec 07 19:04	3° \mathbb{Z} 25'33	
min. Earth dist.	11483 Feb 20 23:02	12° \mathbb{H} 22'32	0.65531 AU	desc. node	11483 Dec 17 20:56	22° \mathbb{Z} 17'56	
inferior conj	11483 Feb 23 03:01	9° \mathbb{H} 54'53	-0°08'47		11483 Dec 22 12:35	0° \approx	
minimum elong	11483 Feb 23 03:16	9° \mathbb{H} 54'12	0°08'22	evening max el	11484 Jan 10 13:20	24° \approx 39'48	27°29'12
transit middle	11483 Feb 23 03:16	9° \mathbb{H} 54'12	0°08'22		11484 Jan 17 10:49	0° \mathbb{H}	
transit begin	11483 Feb 23 00:43	10° \mathbb{H} 01'28		retrograde	11484 Jan 24 06:07	2° \mathbb{H} 03'15	
transit end	11483 Feb 23 05:49	9° \mathbb{H} 46'57			11484 Jan 30 12:47	30° \mathbb{R} \approx	
asc. node	11483 Feb 23 13:45	9° \mathbb{H} 24'26		evening set	11484 Jan 31 03:54	29° \approx 33'57	
morning rise	11483 Mar 01 07:55	4° \mathbb{H} 21'12		min. Earth dist.	11484 Feb 03 22:47	26° \approx 15'20	0.63791 AU
direct	11483 Mar 04 02:10	3° \mathbb{H} 40'04		inferior conj	11484 Feb 06 14:03	23° \approx 32'54	-1°16'40
morning max el	11483 Mar 10 11:14	7° \mathbb{H} 01'11	18°04'38	minimum elong	11484 Feb 06 16:30	23° \approx 26'37	1°15'09
	11483 Mar 26 07:57	0° \mathbb{Y}		asc. node	11484 Feb 10 11:03	19° \approx 55'40	
morning set	11483 Mar 28 21:05	4° \mathbb{Y} 09'01		morning rise	11484 Feb 13 07:12	18° \approx 14'05	
desc. node	11483 Mar 29 01:04	4° \mathbb{Y} 25'14		direct	11484 Feb 15 17:28	17° \approx 44'57	
				morning max el	11484 Feb 22 04:46	21° \approx 05'13	17°48'19
superior conj	11483 Apr 12 15:03	27° \mathbb{Y} 48'05	-1°35'53		11484 Feb 29 00:44	0° \mathbb{H}	
minimum elong	11483 Apr 12 05:42	27° \mathbb{Y} 11'19	1°35'12	morning set	11484 Mar 09 19:14	16° \mathbb{H} 14'23	
	11483 Apr 14 00:36	0° \mathbb{B}		desc. node	11484 Mar 14 21:41	24° \mathbb{H} 54'15	
max. Earth dist.	11483 Apr 15 10:26	2° \mathbb{B} 12'40	1.45606 AU		11484 Mar 17 22:46	0° \mathbb{Y}	
evening rise	11483 Apr 28 17:50	22° \mathbb{B} 53'39					
	11483 May 03 08:22	0° \mathbb{I}		superior conj	11484 Mar 22 15:37	7° \mathbb{Y} 43'42	-0°56'18
greatest brilliancy	11483 May 11 14:28	12° \mathbb{I} 33'18	-0.7m	minimum elong	11484 Mar 22 09:40	7° \mathbb{Y} 19'28	0°55'30
asc. node	11483 May 22 11:18	27° \mathbb{I} 10'35		max. Earth dist.	11484 Mar 28 05:12	16° \mathbb{Y} 39'40	1.44827 AU
evening max el	11483 May 23 09:50	28° \mathbb{I} 09'29	19°27'28		11484 Apr 05 18:12	0° \mathbb{B}	
	11483 May 25 10:39	0° \mathbb{E}		evening rise	11484 Apr 07 05:25	2° \mathbb{B} 15'18	
retrograde	11483 May 30 13:37	2° \mathbb{E} 11'48			11484 Apr 25 22:39	0° \mathbb{I}	
evening set	11483 Jun 03 04:59	0° \mathbb{E} 54'30		evening max el	11484 May 05 11:57	11° \mathbb{I} 53'43	20°27'34
	11483 Jun 04 07:58	30° \mathbb{R} \mathbb{I}		asc. node	11484 May 08 08:29	14° \mathbb{I} 26'00	
inferior conj	11483 Jun 08 14:19	25° \mathbb{I} 01'19	3°15'36	retrograde	11484 May 13 12:27	16° \mathbb{I} 32'28	
minimum elong	11483 Jun 08 14:38	25° \mathbb{I} 00'15	3°14'52	evening set	11484 May 17 13:15	14° \mathbb{I} 59'12	
min. Earth dist.	11483 Jun 09 21:11	23° \mathbb{I} 19'40	0.67101 AU	inferior conj	11484 May 22 20:02	8° \mathbb{I} 53'10	3°13'00
morning rise	11483 Jun 13 23:53	18° \mathbb{I} 39'38		minimum elong	11484 May 22 19:18	8° \mathbb{I} 55'40	3°12'18
direct	11483 Jun 20 00:49	16° \mathbb{I} 00'26		min. Earth dist.	11484 May 23 12:50	7° \mathbb{I} 55'31	0.68098 AU
desc. node	11483 Jun 25 01:35	17° \mathbb{I} 29'17		morning rise	11484 May 28 01:06	2° \mathbb{I} 34'14	
morning max el	11483 Jul 02 09:26	23° \mathbb{I} 24'31	25°39'08	direct	11484 Jun 02 14:06	0° \mathbb{I} 06'46	
	11483 Jul 08 05:50	0° \mathbb{E}		desc. node	11484 Jun 10 22:37	4° \mathbb{I} 09'16	
	11483 Jul 28 23:00	0° Ω		morning max el	11484 Jun 13 19:15	6° \mathbb{I} 49'58	24°13'03
morning set	11483 Aug 07 10:17	16° Ω 21'59			11484 Jul 01 19:44	0° \mathbb{E}	

morning set	11484 Jul 19 08:37	27°☿58'25		morning max el	11485 May 27 05:57	20°☿22'33	22°43'14
	11484 Jul 20 12:36	0°♊		desc. node	11485 May 28 19:32	22°☿00'57	
max. Earth dist.	11484 Jul 23 00:53	4°♊26'37	1.38049 AU		11485 Jun 04 10:30	0°♊	
					11485 Jun 25 00:38	0°☿	
superior conj	11484 Jul 30 05:26	17°♊45'51	-0°47'07	morning set	11485 Jun 30 07:07	8°☿29'27	
minimum elong	11484 Jul 30 08:37	18°♊01'08	0°47'06	max. Earth dist.	11485 Jul 04 22:32	16°☿15'14	1.40362 AU
asc. node	11484 Aug 04 07:54	27°♊42'09					
	11484 Aug 05 11:46	0°♊		superior conj	11485 Jul 12 18:04	29°☿59'11	-1°20'38
evening rise	11484 Aug 08 00:31	5°♊00'54		minimum elong	11485 Jul 12 23:40	0°♊24'35	1°20'30
	11484 Aug 22 17:32	0°♊			11485 Jul 12 18:14	0°♊	
evening max el	11484 Aug 24 12:15	1°♊56'11	19°05'26	asc. node	11485 Jul 22 04:43	17°♊36'20	
retrograde	11484 Sep 02 10:55	6°♊23'53		evening rise	11485 Jul 22 16:33	18°♊32'22	
evening set	11484 Sep 04 07:26	6°♊13'10			11485 Jul 28 20:44	0°♊	
desc. node	11484 Sep 06 20:30	5°♊26'20		evening max el	11485 Aug 07 16:28	14°♊15'49	18°25'44
inferior conj	11484 Sep 12 17:50	1°♊59'54	-1°50'36	retrograde	11485 Aug 15 07:32	18°♊05'56	
minimum elong	11484 Sep 12 13:02	2°♊08'07	1°48'46	evening set	11485 Aug 17 09:33	17°♊49'34	
min. Earth dist.	11484 Sep 15 13:52	0°♊04'05	0.56182 AU	desc. node	11485 Aug 24 17:51	13°♊30'23	
	11484 Sep 15 16:20	30°♊		inferior conj	11485 Aug 25 01:00	13°♊16'07	-0°05'31
morning rise	11484 Sep 20 15:37	27°♊15'27		minimum elong	11485 Aug 25 00:47	13°♊16'33	0°05'42
direct	11484 Sep 26 01:28	26°♊07'06		transit middle	11485 Aug 25 00:47	13°♊16'33	0°05'42
	11484 Oct 06 06:01	0°♊		transit begin	11485 Aug 24 21:28	13°♊23'11	
morning max el	11484 Oct 10 05:21	3°♊21'21	25°49'52	transit end	11485 Aug 25 04:07	13°♊09'54	
	11484 Oct 29 04:34	0°♊		min. Earth dist.	11485 Aug 28 08:37	10°♊38'00	0.58085 AU
asc. node	11484 Oct 31 09:01	4°♊04'58		morning rise	11485 Sep 01 12:31	7°♊55'03	
morning set	11484 Nov 06 22:24	17°♊25'47		direct	11485 Sep 07 14:59	6°♊18'41	
	11484 Nov 12 16:00	0°♊		morning max el	11485 Sep 21 23:03	13°♊56'59	27°07'47
					11485 Oct 04 18:42	0°♊	
superior conj	11484 Nov 13 17:52	2°♊23'25	1°37'02	asc. node	11485 Oct 18 05:48	23°♊34'46	
minimum elong	11484 Nov 13 16:57	2°♊18'17	1°37'36		11485 Oct 21 09:02	0°♊	
max. Earth dist.	11484 Nov 14 20:38	4°♊51'25	1.31825 AU	morning set	11485 Oct 22 07:24	1°♊58'04	
evening rise	11484 Nov 20 18:47	17°♊37'19					
	11484 Nov 27 00:09	0°♊		superior conj	11485 Oct 29 05:35	17°♊09'23	1°29'06
desc. node	11484 Dec 03 17:59	11°♊57'47		minimum elong	11485 Oct 29 03:51	16°♊59'40	1°29'25
	11484 Dec 16 04:13	0°♊		max. Earth dist.	11485 Oct 29 05:21	17°♊08'02	1.31400 AU
evening max el	11484 Dec 22 22:26	7°♊24'16	27°25'48		11485 Nov 04 01:25	0°♊	
retrograde	11485 Jan 05 19:43	14°♊41'46		evening rise	11485 Nov 05 00:27	2°♊03'22	
evening set	11485 Jan 12 19:13	12°♊25'12			11485 Nov 19 22:57	0°♊	
min. Earth dist.	11485 Jan 16 12:43	9°♊31'48	0.61788 AU	desc. node	11485 Nov 20 15:07	1°♊03'43	
inferior conj	11485 Jan 19 12:57	6°♊47'06	-2°31'59	evening max el	11485 Dec 05 01:47	19°♊23'38	26°48'16
minimum elong	11485 Jan 19 18:08	6°♊35'15	2°29'21	retrograde	11485 Dec 19 00:20	26°♊32'14	
morning rise	11485 Jan 26 19:44	1°♊45'56		evening set	11485 Dec 25 18:07	24°♊37'33	
asc. node	11485 Jan 27 08:19	1°♊37'12		min. Earth dist.	11485 Dec 29 16:03	21°♊59'34	0.59660 AU
direct	11485 Jan 29 00:17	1°♊25'03		inferior conj	11486 Jan 01 20:12	19°♊27'54	-3°49'52
morning max el	11485 Feb 04 21:40	4°♊54'25	17°49'51	minimum elong	11486 Jan 02 03:51	19°♊12'36	3°46'42
morning set	11485 Feb 20 15:02	29°♊21'12		morning rise	11486 Jan 09 16:22	14°♊47'15	
	11485 Feb 20 23:41	0°♊		direct	11486 Jan 11 18:43	14°♊30'56	
desc. node	11485 Mar 01 18:21	15°♊30'41		asc. node	11486 Jan 14 05:32	14°♊54'14	
				morning max el	11486 Jan 19 10:19	18°♊18'39	18°10'28
superior conj	11485 Mar 03 16:28	18°♊48'28	-0°14'42		11486 Jan 27 20:26	0°♊	
minimum elong	11485 Mar 03 15:06	18°♊42'40	0°14'17	morning set	11486 Feb 04 02:16	13°♊10'37	
behind sun begin	11485 Mar 03 11:11	18°♊25'57			11486 Feb 13 03:51	0°♊	
behind sun end	11485 Mar 03 19:01	18°♊59'22					
	11485 Mar 10 09:38	0°♊		superior conj	11486 Feb 13 16:57	0°♊59'06	0°22'36
max. Earth dist.	11485 Mar 10 20:37	0°♊44'42	1.43409 AU	minimum elong	11486 Feb 13 18:40	1°♊06'48	0°22'45
evening rise	11485 Mar 17 21:40	11°♊57'12		desc. node	11486 Feb 16 15:02	6°♊10'28	
	11485 Mar 29 20:02	0°♊		max. Earth dist.	11486 Feb 21 07:47	14°♊15'34	1.41509 AU
evening max el	11485 Apr 18 08:39	25°♊39'25	21°39'31	evening rise	11486 Feb 26 06:38	22°♊26'32	
	11485 Apr 23 19:59	0°♊			11486 Mar 03 00:44	0°♊	
asc. node	11485 Apr 25 05:44	0°♊36'46			11486 Mar 23 21:54	0°♊	
retrograde	11485 Apr 27 10:42	1°♊00'08		evening max el	11486 Apr 01 01:04	9°♊26'47	22°58'37
	11485 Apr 30 18:46	30°♊		retrograde	11486 Apr 11 06:46	15°♊29'26	
evening set	11485 May 01 21:54	29°♊11'15		asc. node	11486 Apr 12 03:03	15°♊26'03	
inferior conj	11485 May 07 04:33	22°♊54'29	2°59'17	evening set	11486 Apr 16 05:18	13°♊25'46	
minimum elong	11485 May 07 03:00	22°♊59'53	2°58'32	min. Earth dist.	11486 Apr 21 04:53	7°♊32'00	0.68717 AU
min. Earth dist.	11485 May 07 08:09	22°♊41'57	0.68635 AU	inferior conj	11486 Apr 21 13:51	7°♊00'55	2°35'30
morning rise	11485 May 12 07:54	16°♊40'20		minimum elong	11486 Apr 21 11:48	7°♊08'03	2°34'38
direct	11485 May 17 07:54	14°♊30'30		morning rise	11486 Apr 26 18:11	0°♊53'03	

	11486 Apr 28 00:05	30° Υ		inferior conj	11487 Apr 05 22:03	21° Υ 09'24	2°02'03
direct	11486 May 01 04:56	29° Υ 04'04		minimum elong	11487 Apr 05 19:54	21° Υ 16'39	2°01'11
	11486 May 04 15:44	0° B		morning rise	11487 Apr 11 06:00	15° Υ 09'00	
morning max el	11486 May 09 20:53	4° B 04'16	21°18'14	direct	11487 Apr 15 03:56	13° Υ 41'41	
desc. node	11486 May 15 16:24	10° B 44'19		morning max el	11487 Apr 22 18:56	17° Υ 58'16	20°04'11
	11486 May 29 11:29	0° II			11487 May 02 11:39	0° B	
morning set	11486 Jun 10 03:33	17° II 50'06		desc. node	11487 May 02 13:13	0° B 05'29	
max. Earth dist.	11486 Jun 17 01:52	28° II 57'47	1.42507 AU	morning set	11487 May 20 05:21	26° B 24'14	
	11486 Jun 17 17:01	0° B			11487 May 22 13:11	0° II	
				max. Earth dist.	11487 May 30 12:20	12° II 31'04	1.44223 AU
superior conj	11486 Jun 24 10:11	11° B 16'39	-1°50'05				
minimum elong	11486 Jun 24 16:51	11° B 45'19	1°50'11	superior conj	11487 Jun 05 02:20	21° II 31'34	-2°09'25
	11486 Jul 05 00:22	0° Ω		minimum elong	11487 Jun 05 06:26	21° II 48'16	2°09'58
evening rise	11486 Jul 05 19:26	1° Ω 26'04			11487 Jun 10 05:25	0° B	
asc. node	11486 Jul 09 01:36	7° Ω 18'15		evening rise	11487 Jun 18 04:21	13° B 30'35	
evening max el	11486 Jul 22 03:23	27° Ω 08'42	18°06'18	asc. node	11487 Jun 25 22:33	26° B 42'41	
	11486 Jul 26 02:44	0° II			11487 Jun 27 23:11	0° Ω	
retrograde	11486 Jul 28 22:15	0° II 36'31		evening max el	11487 Jul 05 17:09	10° Ω 24'50	18°06'02
evening set	11486 Jul 31 07:58	0° II 10'41		retrograde	11487 Jul 12 02:47	13° Ω 45'15	
	11486 Jul 31 19:07	30° R Ω		evening set	11487 Jul 14 20:28	13° Ω 07'08	
inferior conj	11486 Aug 07 05:11	25° Ω 16'32	1°17'25	inferior conj	11487 Jul 21 02:48	7° Ω 54'15	2°15'46
minimum elong	11486 Aug 07 07:22	25° Ω 11'25	1°16'12	minimum elong	11487 Jul 21 05:29	7° Ω 47'09	2°14'26
min. Earth dist.	11486 Aug 10 11:05	22° Ω 16'37	0.60313 AU	min. Earth dist.	11487 Jul 23 22:51	4° Ω 54'54	0.62564 AU
desc. node	11486 Aug 11 15:12	21° Ω 16'42		morning rise	11487 Jul 27 12:28	1° Ω 44'42	
morning rise	11486 Aug 14 03:51	19° Ω 26'07		desc. node	11487 Jul 29 12:30	0° Ω 29'31	
direct	11486 Aug 20 16:50	17° Ω 21'45			11487 Jul 30 14:22	30° R B	
morning max el	11486 Sep 04 00:08	25° Ω 16'01	27°50'43	direct	11487 Aug 03 05:07	29° B 17'45	
	11486 Sep 08 08:52	0° II			11487 Aug 07 00:23	0° Ω	
	11486 Sep 28 05:14	0° B		morning max el	11487 Aug 17 07:11	7° Ω 20'09	27°54'53
asc. node	11486 Oct 05 02:34	13° B 21'19			11487 Sep 03 15:08	0° II	
morning set	11486 Oct 06 12:23	16° B 16'00		morning set	11487 Sep 20 11:08	0° B 13'15	
max. Earth dist.	11486 Oct 12 14:03	29° B 22'02	1.31470 AU		11487 Sep 20 08:31	0° B	
	11486 Oct 12 20:54	0° II		asc. node	11487 Sep 21 23:16	3° B 18'32	
				max. Earth dist.	11487 Sep 25 18:42	11° B 21'54	1.32045 AU
superior conj	11486 Oct 13 16:50	1° II 50'30	1°15'38				
minimum elong	11486 Oct 13 14:38	1° II 38'19	1°15'39	superior conj	11487 Sep 28 01:40	16° B 20'28	0°56'50
evening rise	11486 Oct 20 09:54	16° II 37'46		minimum elong	11487 Sep 27 23:30	16° B 08'37	0°56'35
	11486 Oct 26 22:40	0° R			11487 Oct 04 07:21	0° II	
desc. node	11486 Nov 07 12:19	19° R 22'35		evening rise	11487 Oct 04 21:05	1° II 14'04	
	11486 Nov 16 08:10	0° B			11487 Oct 20 10:54	0° R	
evening max el	11486 Nov 16 21:03	0° B 31'04	25°37'55	desc. node	11487 Oct 25 09:36	6° R 35'29	
retrograde	11486 Nov 30 18:11	7° B 30'54		evening max el	11487 Oct 29 08:50	10° R 52'34	24°04'01
evening set	11486 Dec 06 20:08	6° B 05'33		retrograde	11487 Nov 11 23:56	17° R 41'23	
min. Earth dist.	11486 Dec 11 09:24	3° B 28'17	0.57604 AU	evening set	11487 Nov 16 21:49	16° R 48'29	
inferior conj	11486 Dec 14 08:26	1° B 25'40	-4°59'55	min. Earth dist.	11487 Nov 22 19:34	13° R 52'53	0.55885 AU
minimum elong	11486 Dec 14 16:24	1° B 11'53	4°57'28	inferior conj	11487 Nov 24 24:00	12° R 33'10	-5°44'17
	11486 Dec 16 11:10	30° R R		minimum elong	11487 Nov 25 03:31	12° R 27'48	5°43'21
morning rise	11486 Dec 22 15:05	27° R 07'36		morning rise	11487 Dec 03 11:14	8° R 35'42	
direct	11486 Dec 24 20:27	26° R 52'22		direct	11487 Dec 06 02:23	8° R 17'56	
asc. node	11487 Jan 01 02:41	29° R 47'06		morning max el	11487 Dec 16 07:41	13° R 09'42	19°56'13
	11487 Jan 01 08:58	0° B		asc. node	11487 Dec 18 23:45	16° R 01'46	
morning max el	11487 Jan 02 14:56	1° B 07'33	18°52'01		11487 Dec 28 01:01	0° B	
morning set	11487 Jan 19 00:08	27° B 28'30		morning set	11488 Jan 03 04:58	12° B 03'13	
	11487 Jan 20 07:00	0° \approx					
				superior conj	11488 Jan 10 23:16	27° B 48'40	1°15'05
superior conj	11487 Jan 27 12:51	14° \approx 04'02	0°52'45	minimum elong	11488 Jan 11 02:03	28° B 02'33	1°15'26
minimum elong	11487 Jan 27 15:46	14° \approx 17'49	0°52'54		11488 Jan 12 01:45	0° \approx	
desc. node	11487 Feb 03 11:46	26° \approx 50'24		max. Earth dist.	11488 Jan 16 21:42	9° \approx 18'08	1.37125 AU
max. Earth dist.	11487 Feb 03 15:15	27° \approx 05'52	1.39334 AU	evening rise	11488 Jan 20 15:23	16° \approx 09'30	
	11487 Feb 05 06:56	0° R		desc. node	11488 Jan 21 08:33	17° \approx 26'09	
evening rise	11487 Feb 07 12:52	3° R 52'06			11488 Jan 28 17:37	0° R	
	11487 Feb 24 04:38	0° Υ			11488 Feb 18 17:19	0° Υ	
evening max el	11487 Mar 14 15:05	23° Υ 16'32	24°18'50	evening max el	11488 Feb 25 04:22	7° Υ 06'47	25°33'32
retrograde	11487 Mar 25 23:27	29° Υ 55'37		retrograde	11488 Mar 08 11:50	14° Υ 12'42	
asc. node	11487 Mar 30 00:21	28° Υ 41'15		evening set	11488 Mar 14 10:08	11° Υ 45'52	
evening set	11487 Mar 31 09:54	27° Υ 38'53		asc. node	11488 Mar 15 21:41	10° Υ 22'22	
min. Earth dist.	11487 Apr 05 00:52	22° Υ 20'42	0.68358 AU	min. Earth dist.	11488 Mar 18 18:00	7° Υ 02'46	0.67568 AU

inferior conj	11488 Mar 20 03:14	5°♿16'20	1°18'58	inferior conj	11489 Mar 04 03:19	19°♿16'54	0°26'05
minimum elong	11488 Mar 20 01:30	5°♿21'55	1°18'19	minimum elong	11489 Mar 04 02:38	19°♿18'58	0°26'00
	11488 Mar 24 21:55	30°♿		morning rise	11489 Mar 10 02:08	13°♿35'55	
morning rise	11488 Mar 25 17:21	29°♿24'45		direct	11489 Mar 13 01:39	12°♿46'22	
direct	11488 Mar 29 03:25	28°♿17'43		morning max el	11489 Mar 19 13:04	16°♿13'16	18°21'40
	11488 Apr 02 15:06	0°♿			11489 Mar 29 20:59	0°♿	
morning max el	11488 Apr 05 00:46	2°♿03'11	19°04'48	desc. node	11489 Apr 05 06:38	10°♿03'16	
greatest brilliancy	11488 Apr 18 05:07	19°♿36'15	-0.7m	morning set	11489 Apr 08 10:54	15°♿06'45	
desc. node	11488 Apr 18 09:57	19°♿54'25			11489 Apr 17 20:32	0°♿	
	11488 Apr 25 00:27	0°♿		superior conj	11489 Apr 24 03:11	9°♿50'30	-1°54'07
morning set	11488 Apr 28 08:58	5°♿10'56		minimum elong	11489 Apr 23 18:21	9°♿15'58	1°53'51
max. Earth dist.	11488 May 12 04:11	26°♿39'59	1.45327 AU	max. Earth dist.	11489 Apr 24 23:07	11°♿08'22	1.45719 AU
	11488 May 14 07:02	0°♿			11489 May 07 00:41	0°♿	
superior conj	11488 May 14 20:19	0°♿52'19	-2°11'54	evening rise	11489 May 10 01:03	4°♿43'49	
minimum elong	11488 May 14 17:27	0°♿41'02	2°12'27	greatest brilliancy	11489 May 20 05:01	20°♿37'06	-0.8m
evening rise	11488 May 29 14:45	24°♿36'41			11489 May 26 12:49	0°♿	
	11488 Jun 01 21:46	0°♿		asc. node	11489 May 29 16:37	4°♿11'49	
asc. node	11488 Jun 11 19:33	15°♿43'25		evening max el	11489 Jun 01 16:52	7°♿36'08	18°59'40
evening max el	11488 Jun 18 06:31	23°♿56'19	18°24'07	retrograde	11489 Jun 08 11:57	11°♿21'57	
retrograde	11488 Jun 24 16:36	27°♿23'06		evening set	11489 Jun 11 22:11	10°♿14'00	
evening set	11488 Jun 27 18:21	26°♿30'43		inferior conj	11489 Jun 17 10:17	4°♿29'15	3°11'21
inferior conj	11488 Jul 03 13:45	21°♿01'07	2°52'25	minimum elong	11489 Jun 17 11:15	4°♿26'08	3°10'33
minimum elong	11488 Jul 03 15:48	20°♿55'05	2°51'21	min. Earth dist.	11489 Jun 19 01:44	2°♿23'50	0.66319 AU
min. Earth dist.	11488 Jul 05 20:05	18°♿21'47	0.64614 AU		11489 Jun 21 02:15	30°♿	
morning rise	11488 Jul 09 12:02	14°♿41'57		morning rise	11489 Jun 22 23:41	28°♿07'14	
desc. node	11488 Jul 15 09:44	12°♿03'17		direct	11489 Jun 29 06:37	25°♿24'30	
direct	11488 Jul 16 02:15	12°♿01'39		desc. node	11489 Jul 02 06:54	25°♿56'25	
morning max el	11488 Jul 29 17:27	20°♿01'05	27°23'14		11489 Jul 08 20:36	0°♿	
	11488 Aug 07 06:31	0°♿		morning max el	11489 Jul 12 04:11	3°♿05'58	26°22'58
	11488 Aug 26 16:34	0°♿			11489 Aug 01 13:05	0°♿	
morning set	11488 Sep 03 01:08	13°♿43'26		morning set	11489 Aug 17 03:04	26°♿37'21	
max. Earth dist.	11488 Sep 07 15:25	22°♿58'38	1.33134 AU		11489 Aug 18 21:54	0°♿	
asc. node	11488 Sep 07 19:58	23°♿22'09		max. Earth dist.	11489 Aug 21 01:44	4°♿10'57	1.34730 AU
	11488 Sep 10 23:42	0°♿		asc. node	11489 Aug 25 16:41	13°♿27'37	
superior conj	11488 Sep 11 06:05	0°♿33'57	0°32'56	superior conj	11489 Aug 26 03:38	14°♿23'55	0°04'27
minimum elong	11488 Sep 11 04:32	0°♿25'42	0°32'34	minimum elong	11489 Aug 26 03:24	14°♿22'42	0°04'08
evening rise	11488 Sep 18 08:11	15°♿47'19		behind sun begin	11489 Aug 25 21:40	13°♿53'11	
	11488 Sep 25 08:59	0°♿		behind sun end	11489 Aug 26 09:09	14°♿52'17	
evening max el	11488 Oct 09 19:58	20°♿57'24	22°23'02	evening rise	11489 Sep 02 17:10	0°♿11'31	
desc. node	11488 Oct 11 06:54	22°♿18'15			11489 Sep 02 14:58	0°♿	
retrograde	11488 Oct 22 17:46	27°♿22'31			11489 Sep 20 08:21	0°♿	
evening set	11488 Oct 26 04:20	26°♿56'26		evening max el	11489 Sep 21 15:54	1°♿22'26	20°51'11
min. Earth dist.	11488 Nov 03 02:49	23°♿24'24	0.54811 AU	desc. node	11489 Sep 28 04:14	6°♿01'35	
inferior conj	11488 Nov 03 22:24	22°♿56'46	-5°40'50	retrograde	11489 Oct 03 04:53	7°♿06'04	
minimum elong	11488 Nov 03 17:32	23°♿03'38	5°39'49	evening set	11489 Oct 05 12:03	6°♿53'25	
morning rise	11488 Nov 12 08:14	19°♿09'24		inferior conj	11489 Oct 14 14:14	2°♿58'34	-4°39'11
direct	11488 Nov 15 15:43	18°♿44'43		minimum elong	11489 Oct 14 04:19	3°♿12'40	4°36'17
morning max el	11488 Nov 27 10:33	24°♿19'47	21°22'41	min. Earth dist.	11489 Oct 15 10:18	2°♿29'58	0.54616 AU
	11488 Dec 02 10:56	0°♿			11489 Oct 20 06:08	30°♿	
asc. node	11488 Dec 04 20:44	3°♿22'13		morning rise	11489 Oct 22 20:39	29°♿03'08	
morning set	11488 Dec 17 14:06	26°♿47'09		direct	11489 Oct 26 23:53	28°♿26'25	
	11488 Dec 19 02:53	0°♿			11489 Nov 02 10:30	0°♿	
superior conj	11488 Dec 24 20:06	12°♿01'15	1°29'52	morning max el	11489 Nov 09 01:41	4°♿44'44	23°06'08
minimum elong	11488 Dec 24 22:02	12°♿11'21	1°30'26	asc. node	11489 Nov 21 17:39	21°♿33'26	
max. Earth dist.	11488 Dec 29 08:01	21°♿10'39	1.35123 AU	morning set	11489 Nov 26 09:12	0°♿	
evening rise	11489 Jan 02 11:00	29°♿10'28			11489 Dec 02 01:29	11°♿34'42	
	11489 Jan 02 21:31	0°♿		superior conj	11489 Dec 09 00:09	26°♿32'41	1°37'39
desc. node	11489 Jan 07 05:23	7°♿53'36		minimum elong	11489 Dec 09 00:58	26°♿37'03	1°38'20
	11489 Jan 20 22:23	0°♿			11489 Dec 10 14:58	0°♿	
evening max el	11489 Feb 06 17:52	20°♿52'32	26°35'27	max. Earth dist.	11489 Dec 12 02:10	3°♿05'36	1.33485 AU
retrograde	11489 Feb 19 18:58	28°♿13'11		evening rise	11489 Dec 16 20:05	12°♿45'57	
evening set	11489 Feb 26 04:10	25°♿40'45		desc. node	11489 Dec 25 02:17	28°♿08'08	
min. Earth dist.	11489 Mar 02 06:08	21°♿31'51	0.66378 AU		11489 Dec 26 04:07	0°♿	
asc. node	11489 Mar 02 19:01	20°♿53'48			11490 Jan 16 01:47	0°♿	



























































































































evening max el	11490 Jan 20 07:17	4° K 25'16	27°17'11	evening max el	11491 Jan 02 18:43	17° K 31'13	27°31'51
retrograde	11490 Feb 02 19:53	11° K 49'29		retrograde	11491 Jan 16 13:36	24° K 51'45	
evening set	11490 Feb 09 13:59	9° K 17'16		evening set	11491 Jan 23 12:57	22° K 27'01	
min. Earth dist.	11490 Feb 13 11:09	5° K 40'59	0.64827 AU	min. Earth dist.	11491 Jan 27 06:55	19° K 19'58	0.62970 AU
inferior conj	11490 Feb 15 19:58	3° K 05'55	-0°36'29	inferior conj	11491 Jan 30 02:18	16° K 35'10	-1°47'50
minimum elong	11490 Feb 15 21:04	3° K 02'56	0°35'37	minimum elong	11491 Jan 30 05:52	16° K 26'25	1°45'49
asc. node	11490 Feb 17 16:19	1° K 08'02		asc. node	11491 Feb 04 13:37	12° K 04'21	
	11490 Feb 18 20:29	30° K		morning rise	11491 Feb 06 01:07	11° K 23'14	
morning rise	11490 Feb 22 05:49	27° K 37'52		direct	11491 Feb 08 08:45	10° K 57'56	
direct	11490 Feb 24 20:25	27° K 02'17		morning max el	11491 Feb 14 23:11	14° K 20'40	17°46'42
	11490 Mar 02 20:19	0° K			11491 Feb 25 20:34	0° K	
morning max el	11490 Mar 03 05:32	0° K 22'01	17°55'29	morning set	11491 Mar 03 02:13	9° K 03'32	
morning set	11490 Mar 20 18:00	26° K 29'11		desc. node	11491 Mar 09 23:53	20° K 59'04	
	11490 Mar 22 20:51	0° Y					
desc. node	11490 Mar 23 03:16	0° Y 26'32		superior conj	11491 Mar 15 03:27	29° K 38'02	-0°38'27
				minimum elong	11491 Mar 14 23:32	29° K 21'46	0°37'47
superior conj	11490 Apr 03 16:56	19° Y 14'04	-1°19'54		11491 Mar 15 08:46	0° Y	
minimum elong	11490 Apr 03 08:35	18° Y 40'45	1°19'04	max. Earth dist.	11491 Mar 21 13:13	10° Y 03'42	1.44306 AU
max. Earth dist.	11490 Apr 07 19:05	25° Y 42'17	1.45366 AU	evening rise	11491 Mar 30 05:05	23° Y 38'56	
	11490 Apr 10 12:52	0° B			11491 Apr 03 08:52	0° B	
evening rise	11490 Apr 19 17:19	14° B 12'47			11491 Apr 24 10:43	0° II	
	11490 Apr 30 02:28	0° II		evening max el	11491 Apr 28 22:14	5° II 05'14	20°56'55
greatest brilliancy	11490 May 04 05:44	6° II 07'55	-0.6m	asc. node	11491 May 03 11:02	8° II 47'52	
evening max el	11490 May 15 22:26	21° II 20'18	19°51'22	retrograde	11491 May 07 08:55	10° II 01'00	
asc. node	11490 May 16 13:47	21° II 57'55		evening set	11491 May 11 14:09	8° II 20'46	
retrograde	11490 May 23 10:08	25° II 36'36		inferior conj	11491 May 16 20:36	2° II 09'53	3°08'26
evening set	11490 May 27 05:28	24° II 12'29		minimum elong	11491 May 16 19:30	2° II 13'44	3°07'43
inferior conj	11490 Jun 01 13:25	18° II 13'51	3°15'54	min. Earth dist.	11491 May 17 07:37	1° II 31'44	0.68392 AU
minimum elong	11490 Jun 01 13:16	18° II 14'19	3°15'12		11491 May 18 10:29	30° R B	
min. Earth dist.	11490 Jun 02 14:13	16° II 50'29	0.67592 AU	morning rise	11491 May 22 00:38	25° B 53'02	
morning rise	11490 Jun 06 20:44	11° II 53'12		direct	11491 May 27 08:11	23° B 32'43	
direct	11490 Jun 12 16:58	9° II 17'57		desc. node	11491 Jun 06 00:59	28° B 57'10	
desc. node	11490 Jun 19 04:00	11° II 44'00		morning max el	11491 Jun 07 00:08	29° B 54'10	23°34'43
morning max el	11490 Jun 24 14:12	16° II 25'37	25°03'27		11491 Jun 07 02:27	0° II	
	11490 Jul 05 20:00	0° E			11491 Jun 29 15:42	0° E	
	11490 Jul 25 11:50	0° O		morning set	11491 Jul 12 01:35	19° E 54'47	
morning set	11490 Jul 30 12:50	8° O 45'03		max. Earth dist.	11491 Jul 16 00:24	26° E 42'35	1.39040 AU
max. Earth dist.	11490 Aug 03 02:55	15° O 15'45	1.36762 AU		11491 Jul 17 21:07	0° O	
superior conj	11490 Aug 09 15:25	27° O 43'27	-0°27'41	superior conj	11491 Jul 23 13:45	10° O 23'48	-1°01'32
minimum elong	11490 Aug 09 17:13	27° O 52'15	0°27'48	minimum elong	11491 Jul 23 18:01	10° O 43'46	1°01'26
	11490 Aug 10 19:02	0° np		asc. node	11491 Jul 30 10:14	23° O 30'44	
asc. node	11490 Aug 12 13:25	3° np 31'40		evening rise	11491 Aug 01 19:35	28° O 09'44	
evening rise	11490 Aug 17 21:54	14° np 21'20			11491 Aug 02 18:19	0° np	
	11490 Aug 26 02:06	0° u		evening max el	11491 Aug 17 23:54	24° np 25'45	18°45'56
evening max el	11490 Sep 04 01:30	12° u 30'33	19°37'50	retrograde	11491 Aug 26 07:52	28° np 36'07	
retrograde	11490 Sep 13 21:59	17° u 24'48		evening set	11491 Aug 28 06:10	28° np 23'30	
desc. node	11490 Sep 15 01:38	17° u 21'02		desc. node	11491 Sep 01 23:02	26° np 21'31	
evening set	11490 Sep 15 18:41	17° u 15'04		inferior conj	11491 Sep 05 08:40	24° np 01'31	-1°03'52
inferior conj	11490 Sep 24 14:01	13° u 11'09	-2°55'56	minimum elong	11491 Sep 05 06:01	24° np 06'22	1°02'57
minimum elong	11490 Sep 24 06:18	13° u 23'17	2°53'01	min. Earth dist.	11491 Sep 08 11:17	21° np 45'52	0.56925 AU
min. Earth dist.	11490 Sep 26 20:17	11° u 46'03	0.55369 AU	morning rise	11491 Sep 13 02:30	19° np 01'04	
morning rise	11490 Oct 02 15:57	8° u 48'22		direct	11491 Sep 18 19:48	17° np 41'33	
direct	11490 Oct 07 15:04	7° u 53'43		morning max el	11491 Oct 03 02:27	25° np 06'38	26°26'58
morning max el	11490 Oct 21 12:20	14° u 49'03	24°53'34		11491 Oct 07 15:36	0° u	
	11490 Nov 02 12:37	0° m		asc. node	11491 Oct 26 11:20	29° u 39'47	
asc. node	11490 Nov 08 14:31	10° m 22'33			11491 Oct 26 15:28	0° m	
morning set	11490 Nov 16 13:17	26° m 20'02		morning set	11491 Oct 31 23:49	10° m 58'36	
	11490 Nov 18 06:01	0° x					
				superior conj	11491 Nov 07 19:58	26° m 00'38	1°34'21
superior conj	11490 Nov 23 08:48	11° x 14'31	1°38'59	minimum elong	11491 Nov 07 18:40	25° m 53'22	1°34'50
minimum elong	11490 Nov 23 08:28	11° x 12'41	1°39'39	max. Earth dist.	11491 Nov 08 11:17	27° m 25'44	1.31580 AU
max. Earth dist.	11490 Nov 25 04:04	15° x 11'09	1.32292 AU		11491 Nov 09 15:06	0° x	
evening rise	11490 Nov 30 15:16	26° x 46'25		evening rise	11491 Nov 14 17:48	11° x 04'45	
	11490 Dec 02 05:27	0° Z			11491 Nov 24 10:43	0° Z	
desc. node	11490 Dec 11 23:16	18° Z 02'55		desc. node	11491 Nov 28 20:23	7° Z 29'48	
	11490 Dec 19 12:17	0° z		evening max el	11491 Dec 16 01:37	29° Z 57'12	27°14'03

	11491 Dec 16 02:48	0°♊				11492 Oct 31 03:37	0°♊		
retrograde	11491 Dec 29 23:23	7°♊10'54		desc. node		11492 Nov 14 17:34	26°♊17'18		
evening set	11492 Jan 05 21:47	5°♊02'15				11492 Nov 17 06:47	0°♊		
min. Earth dist.	11492 Jan 09 16:04	2°♊17'16	0.60894 AU	evening max el		11492 Nov 27 01:24	11°♊33'09	26°21'59	
	11492 Jan 12 07:55	30°♊		retrograde		11492 Dec 10 23:55	18°♊38'59		
inferior conj	11492 Jan 12 18:58	29°♊36'01	-3°05'06	evening set		11492 Dec 17 12:21	16°♊55'44		
minimum elong	11492 Jan 13 01:19	29°♊22'18	3°02'07	min. Earth dist.		11492 Dec 21 14:53	14°♊20'15	0.58755 AU	
morning rise	11492 Jan 20 07:38	24°♊43'28		inferior conj		11492 Dec 24 18:23	11°♊58'41	-4°21'28	
direct	11492 Jan 22 10:51	24°♊24'53		minimum elong		11492 Dec 25 02:36	11°♊43'15	4°18'24	
asc. node	11492 Jan 22 10:51	24°♊24'53		morning rise		11493 Jan 01 19:37	7°♊27'55		
morning max el	11492 Jan 29 14:45	28°♊00'29	17°56'13	direct		11493 Jan 03 22:20	7°♊12'37		
	11492 Jan 31 10:44	0°♊		asc. node		11493 Jan 08 08:00	8°♊23'00		
morning set	11492 Feb 14 05:14	22°♊30'16		morning max el		11493 Jan 12 00:30	11°♊10'55	18°25'34	
	11492 Feb 18 07:48	0°♊		morning set		11493 Jan 24 10:36	0°♊		
						11493 Jan 27 21:29	6°♊32'48		
superior conj	11492 Feb 24 14:48	11°♊12'14	0°01'52						
minimum elong	11492 Feb 24 14:59	11°♊13'01	0°02'09	superior conj		11493 Feb 06 00:09	23°♊47'42	0°36'19	
behind sun begin	11492 Feb 24 06:53	10°♊37'42		minimum elong		11493 Feb 06 02:35	23°♊58'50	0°36'25	
behind sun end	11492 Feb 24 23:05	11°♊48'14				11493 Feb 09 10:16	0°♊		
desc. node	11492 Feb 24 20:34	11°♊37'20		desc. node		11493 Feb 10 17:16	2°♊17'35		
max. Earth dist.	11492 Mar 03 03:07	23°♊56'15	1.42653 AU	max. Earth dist.		11493 Feb 13 12:02	7°♊08'21	1.40596 AU	
	11492 Mar 06 20:34	0°♊		evening rise		11493 Feb 17 21:12	14°♊31'21		
evening rise	11492 Mar 09 03:22	3°♊38'20				11493 Feb 27 15:41	0°♊		
	11492 Mar 26 17:53	0°♊				11493 Mar 21 19:28	0°♊		
evening max el	11492 Apr 10 16:47	18°♊50'47	22°12'31	evening max el		11493 Mar 24 07:50	2°♊39'07	23°32'58	
asc. node	11492 Apr 19 08:19	24°♊25'52		retrograde		11493 Apr 04 01:27	8°♊58'59		
retrograde	11492 Apr 20 06:31	24°♊29'58		asc. node		11493 Apr 06 05:36	8°♊36'49		
evening set	11492 Apr 24 22:29	22°♊34'25		evening set		11493 Apr 09 04:54	6°♊49'33		
inferior conj	11492 Apr 30 05:42	16°♊13'34	2°50'24	min. Earth dist.		11493 Apr 14 00:35	1°♊10'43	0.68613 AU	
minimum elong	11492 Apr 30 03:54	16°♊19'53	2°49'35	inferior conj		11493 Apr 14 14:47	0°♊21'59	2°22'31	
min. Earth dist.	11492 Apr 30 03:48	16°♊20'14	0.68727 AU	minimum elong		11493 Apr 14 12:38	0°♊29'23	2°21'38	
morning rise	11492 May 05 09:10	10°♊02'00				11493 Apr 14 21:11	30°♊		
direct	11492 May 10 03:23	8°♊01'05		morning rise		11493 Apr 19 20:19	24°♊16'55		
morning max el	11492 May 19 12:25	13°♊30'45	22°06'00	direct		11493 Apr 24 01:27	22°♊37'16		
desc. node	11492 May 22 21:53	17°♊12'42		morning max el		11493 May 02 06:11	27°♊18'07	20°45'04	
	11492 Jun 01 17:28	0°♊				11493 May 04 18:33	0°♊		
morning set	11492 Jun 21 12:56	29°♊55'27		desc. node		11493 May 09 18:43	6°♊13'58		
	11492 Jun 21 14:04	0°♊				11493 May 26 05:22	0°♊		
max. Earth dist.	11492 Jun 27 00:09	8°♊53'45	1.41309 AU	morning set		11493 May 31 23:46	8°♊51'48		
				max. Earth dist.		11493 Jun 09 06:01	21°♊57'21	1.43301 AU	
						11493 Jun 14 03:53	0°♊		
superior conj	11492 Jul 04 18:09	22°♊13'59	-1°33'58						
minimum elong	11492 Jul 05 00:30	22°♊42'06	1°33'52	superior conj		11493 Jun 16 00:22	3°♊05'34	-1°59'56	
	11492 Jul 09 01:53	0°♊		minimum elong		11493 Jun 16 06:32	3°♊31'26	2°00'13	
evening rise	11492 Jul 15 06:36	11°♊26'30		evening rise		11493 Jun 28 02:30	24°♊00'56		
asc. node	11492 Jul 16 07:05	13°♊20'10				11493 Jul 01 11:50	0°♊		
	11492 Jul 25 20:09	0°♊		asc. node		11493 Jul 03 04:00	2°♊55'34		
evening max el	11492 Jul 31 07:25	7°♊00'17	18°15'02	evening max el		11493 Jul 14 20:01	20°♊04'34	18°03'54	
retrograde	11492 Aug 07 12:42	10°♊39'26		retrograde		11493 Jul 21 09:43	23°♊27'19		
evening set	11492 Aug 09 17:43	10°♊19'35		evening set		11493 Jul 23 22:47	22°♊56'39		
inferior conj	11492 Aug 17 01:07	5°♊37'14	0°32'44	inferior conj		11493 Jul 30 13:14	17°♊54'36	1°45'01	
minimum elong	11492 Aug 17 02:13	5°♊34'54	0°31'57	minimum elong		11493 Jul 30 15:50	17°♊48'13	1°43'41	
desc. node	11492 Aug 18 20:25	4°♊04'06		min. Earth dist.		11493 Aug 02 15:50	14°♊51'58	0.61288 AU	
min. Earth dist.	11492 Aug 20 09:20	2°♊46'51	0.59006 AU	desc. node		11493 Aug 05 17:44	12°♊16'39		
morning rise	11492 Aug 24 07:16	0°♊02'04		morning rise		11493 Aug 06 06:16	11°♊54'45		
	11492 Aug 24 08:44	30°♊		direct		11493 Aug 12 21:48	9°♊39'24		
direct	11492 Aug 30 14:49	28°♊13'27		morning max el		11493 Aug 27 03:22	17°♊38'48	27°57'00	
	11492 Sep 06 03:13	0°♊				11493 Sep 06 10:41	0°♊		
morning max el	11492 Sep 13 23:33	6°♊00'22	27°30'48			11493 Sep 24 14:43	0°♊		
	11492 Oct 01 20:56	0°♊		morning set		11493 Sep 29 09:52	9°♊34'28		
asc. node	11492 Oct 12 08:06	19°♊17'04		asc. node		11493 Sep 29 04:50	9°♊08'32		
morning set	11492 Oct 15 07:19	25°♊25'05		max. Earth dist.		11493 Oct 05 03:29	21°♊48'59	1.31650 AU	
	11492 Oct 17 10:44	0°♊							
superior conj	11492 Oct 22 07:41	10°♊44'45	1°24'03	superior conj		11493 Oct 06 18:08	25°♊21'36	1°08'18	
minimum elong	11492 Oct 22 05:42	10°♊33'41	1°24'15	minimum elong		11493 Oct 06 15:53	25°♊09'11	1°08'12	
max. Earth dist.	11492 Oct 21 20:19	9°♊41'26	1.31362 AU			11493 Oct 08 20:26	0°♊		
evening rise	11492 Oct 29 01:17	25°♊34'15		evening rise		11493 Oct 13 11:39	10°♊09'35		

	11493 Oct 23 12:05	0°♊			11494 Sep 30 10:36	0°♎		
desc. node	11493 Nov 01 14:48	14°♊10'21			11494 Oct 18 18:22	0°♊		
evening max el	11493 Nov 08 17:05	22°♊18'40	25°00'02	desc. node	11494 Oct 19 12:05	0°♊48'33		
retrograde	11493 Nov 22 12:59	29°♊14'43		evening max el	11494 Oct 21 03:43	2°♊29'44	23°20'56	
evening set	11493 Nov 28 04:05	28°♊03'33		retrograde	11494 Nov 03 12:59	9°♊09'44		
min. Earth dist.	11493 Dec 03 05:01	25°♊20'31	0.56805 AU	evening set	11494 Nov 07 20:06	8°♊29'39		
inferior conj	11493 Dec 05 21:45	23°♊34'53	-5°23'19	min. Earth dist.	11494 Nov 14 13:28	5°♊20'43	0.55333 AU	
minimum elong	11493 Dec 06 04:30	23°♊23'49	5°21'30	inferior conj	11494 Nov 16 05:16	4°♊22'42	-5°49'47	
morning rise	11493 Dec 14 07:09	19°♊25'56		minimum elong	11494 Nov 16 05:23	4°♊22'31	5°49'10	
direct	11493 Dec 16 15:36	19°♊10'10		morning rise	11494 Nov 24 16:23	0°♊31'09		
morning max el	11493 Dec 26 00:26	23°♊40'34	19°16'33	direct	11494 Nov 27 14:05	0°♊10'48		
asc. node	11493 Dec 26 05:06	23°♊51'55		morning max el	11494 Dec 08 11:15	5°♊20'34	20°30'26	
	11493 Dec 31 05:45	0°♊		asc. node	11494 Dec 13 02:08	10°♊36'46		
morning set	11494 Jan 11 22:38	20°♊58'22			11494 Dec 24 10:55	0°♊		
	11494 Jan 16 11:08	0°♊		morning set	11494 Dec 27 05:37	5°♊38'19		
superior conj	11494 Jan 20 02:41	7°♊10'20	1°03'11	superior conj	11495 Jan 03 17:58	21°♊08'12	1°22'15	
minimum elong	11494 Jan 20 05:40	7°♊24'47	1°03'23	minimum elong	11495 Jan 03 20:27	21°♊20'50	1°22'41	
max. Earth dist.	11494 Jan 26 18:11	19°♊39'15	1.38377 AU		11495 Jan 08 04:54	0°♊		
desc. node	11494 Jan 28 14:00	22°♊55'57		max. Earth dist.	11495 Jan 09 02:05	1°♊42'24	1.36238 AU	
evening rise	11494 Jan 30 12:20	26°♊19'42		evening rise	11495 Jan 12 22:36	8°♊57'06		
	11494 Feb 01 15:34	0°♊		desc. node	11495 Jan 15 10:48	13°♊28'58		
	11494 Feb 21 05:21	0°♊			11495 Jan 25 08:06	0°♊		
evening max el	11494 Mar 06 21:28	16°♊29'57	24°51'50		11495 Feb 17 02:54	0°♊		
retrograde	11494 Mar 18 16:25	23°♊21'49		evening max el	11495 Feb 17 11:01	0°♊19'55	26°01'55	
evening set	11494 Mar 24 07:49	21°♊00'40		retrograde	11495 Mar 02 02:27	7°♊32'41		
asc. node	11494 Mar 24 02:55	21°♊10'54		evening set	11495 Mar 08 05:37	5°♊03'00		
min. Earth dist.	11494 Mar 28 19:42	15°♊57'14	0.68068 AU	asc. node	11495 Mar 11 00:13	2°♊17'39		
inferior conj	11494 Mar 29 21:55	14°♊30'33	1°44'59	min. Earth dist.	11495 Mar 12 10:56	0°♊34'37	0.67113 AU	
minimum elong	11494 Mar 29 19:53	14°♊37'20	1°44'12		11495 Mar 12 22:08	30°♊		
morning rise	11494 Apr 04 08:09	8°♊33'28		inferior conj	11495 Mar 14 01:12	28°♊35'25	0°57'45	
direct	11494 Apr 08 00:57	7°♊14'51		minimum elong	11495 Mar 13 23:49	28°♊39'43	0°57'19	
morning max el	11494 Apr 15 07:27	11°♊16'42	19°36'59	morning rise	11495 Mar 19 18:42	22°♊48'02		
desc. node	11494 Apr 26 15:27	25°♊48'02		direct	11495 Mar 23 00:13	21°♊48'38		
greatest brilliancy	11494 Apr 28 00:25	27°♊48'10	-0.6m	morning max el	11495 Mar 29 16:13	25°♊24'21	18°44'27	
	11494 Apr 29 12:10	0°♊			11495 Apr 02 16:23	0°♊		
morning set	11494 May 10 23:22	17°♊22'47		desc. node	11495 Apr 13 12:09	15°♊46'11		
	11494 May 19 02:36	0°♊		morning set	11495 Apr 20 10:42	26°♊34'23		
max. Earth dist.	11494 May 22 18:54	5°♊47'24	1.44783 AU		11495 Apr 22 15:21	0°♊		
superior conj	11494 May 27 06:28	12°♊55'52	-2°12'51	max. Earth dist.	11495 May 05 12:57	20°♊08'50	1.45593 AU	
minimum elong	11494 May 27 07:59	13°♊01'57	2°13'31	superior conj	11495 May 06 17:44	22°♊01'30	-2°06'48	
	11494 Jun 06 16:46	0°♊		minimum elong	11495 May 06 11:45	21°♊38'02	2°07'03	
evening rise	11494 Jun 10 02:16	5°♊41'12			11495 May 11 19:31	0°♊		
asc. node	11494 Jun 20 00:58	22°♊10'49		evening rise	11495 May 22 02:16	16°♊21'33		
	11494 Jun 25 09:32	0°♊		greatest brilliancy	11495 May 28 19:01	27°♊06'02	-0.9m	
evening max el	11494 Jun 28 10:02	3°♊28'34	18°11'31		11495 May 30 14:51	0°♊		
retrograde	11494 Jul 04 18:34	6°♊49'38		asc. node	11495 Jun 06 21:59	10°♊59'00		
evening set	11494 Jul 07 15:46	6°♊05'31		evening max el	11495 Jun 11 22:26	17°♊04'34	18°37'06	
inferior conj	11494 Jul 13 17:00	0°♊45'24	2°33'40	retrograde	11495 Jun 18 11:11	20°♊37'43		
minimum elong	11494 Jul 13 19:29	0°♊38'28	2°32'27	evening set	11495 Jun 21 16:34	19°♊38'38		
	11494 Jul 14 09:16	30°♊		inferior conj	11495 Jun 27 08:26	14°♊02'11	3°02'22	
min. Earth dist.	11494 Jul 16 07:32	27°♊52'36	0.63483 AU	minimum elong	11495 Jun 27 10:03	13°♊57'14	3°01'26	
morning rise	11494 Jul 19 21:36	24°♊31'05		min. Earth dist.	11495 Jun 29 08:21	11°♊36'18	0.65394 AU	
desc. node	11494 Jul 23 14:59	22°♊26'35		morning rise	11495 Jul 03 02:38	7°♊41'16		
direct	11494 Jul 26 14:05	21°♊57'06		direct	11495 Jul 09 14:13	4°♊59'00		
morning max el	11494 Aug 09 11:53	29°♊59'02	27°45'18	desc. node	11495 Jul 10 12:11	5°♊01'56		
	11494 Aug 09 12:16	0°♊		morning max el	11495 Jul 22 22:39	12°♊51'52	27°00'35	
	11494 Aug 31 11:11	0°♊			11495 Aug 05 17:10	0°♊		
morning set	11494 Sep 13 05:14	23°♊21'02			11495 Aug 24 02:08	0°♊		
asc. node	11494 Sep 16 01:33	29°♊09'09		morning set	11495 Aug 27 14:33	6°♊36'53		
	11494 Sep 16 11:21	0°♊		max. Earth dist.	11495 Aug 31 21:53	15°♊06'51	1.33761 AU	
max. Earth dist.	11494 Sep 18 05:09	3°♊39'41	1.32448 AU	asc. node	11495 Sep 02 22:15	19°♊14'05		
superior conj	11494 Sep 21 01:22	9°♊45'35	0°47'18	superior conj	11495 Sep 05 03:11	23°♊49'58	0°21'22	
minimum elong	11494 Sep 20 23:23	9°♊34'50	0°46'59	minimum elong	11495 Sep 05 02:06	23°♊44'18	0°21'00	
evening rise	11494 Sep 27 23:03	24°♊45'37			11495 Sep 08 01:01	0°♊		

evening rise	11495 Sep 12 09:32	9°♌16'07		superior conj	11496 Aug 18 21:01	7°♎28'29	-0°08'50
	11495 Sep 23 04:36	0°♍		minimum elong	11496 Aug 18 21:34	7°♎31'15	0°09'05
evening max el	11495 Oct 02 17:29	12°♍38'37	21°42'01	behind sun begin	11496 Aug 18 16:27	7°♎05'24	
desc. node	11495 Oct 06 09:26	15°♍44'22		behind sun end	11496 Aug 19 02:41	7°♎57'07	
retrograde	11495 Oct 15 02:42	18°♍48'10		asc. node	11496 Aug 19 18:59	9°♎19'54	
evening set	11495 Oct 18 00:02	18°♍29'15		evening rise	11496 Aug 26 17:05	23°♎35'48	
inferior conj	11495 Oct 26 23:08	14°♍33'01	-5°21'25		11496 Aug 29 20:50	0°♏	
minimum elong	11495 Oct 26 15:16	14°♍44'02	5°19'38	evening max el	11496 Sep 13 18:55	23°♏20'30	20°17'20
min. Earth dist.	11495 Oct 26 20:05	14°♍37'17	0.54614 AU	desc. node	11496 Sep 22 06:47	28°♏29'05	
morning rise	11495 Nov 04 07:39	10°♍45'15		retrograde	11496 Sep 24 15:14	28°♏43'52	
direct	11495 Nov 07 23:26	10°♍16'10		evening set	11496 Sep 26 15:43	28°♏33'28	
morning max el	11495 Nov 20 08:28	16°♍09'17	22°05'18	inferior conj	11496 Oct 05 16:42	24°♏35'59	-3°58'38
asc. node	11495 Nov 29 23:06	28°♍20'25		minimum elong	11496 Oct 05 06:59	24°♏50'18	3°55'21
	11495 Nov 30 23:47	0°♎		min. Earth dist.	11496 Oct 07 04:31	23°♏43'11	0.54826 AU
morning set	11495 Dec 11 15:57	20°♎24'37		morning rise	11496 Oct 13 21:28	20°♏30'42	
	11495 Dec 16 04:07	0°♏		direct	11496 Oct 18 08:54	19°♏47'26	
				morning max el	11496 Oct 31 20:54	26°♏22'39	23°52'22
superior conj	11495 Dec 18 18:14	5°♏29'48	1°33'59		11496 Nov 04 08:08	0°♐	
minimum elong	11495 Dec 18 19:43	5°♏37'37	1°34'37	asc. node	11496 Nov 15 20:01	16°♐49'06	
max. Earth dist.	11495 Dec 22 15:43	13°♏34'49	1.34375 AU		11496 Nov 22 16:22	0°♑	
evening rise	11495 Dec 27 00:21	22°♏13'27		morning set	11496 Nov 25 03:43	5°♑11'51	
	11495 Dec 31 03:58	0°♒					
desc. node	11496 Jan 02 07:41	3°♒51'30		superior conj	11496 Dec 02 00:34	20°♑06'43	1°38'58
	11496 Jan 19 02:31	0°♓		minimum elong	11496 Dec 02 00:53	20°♑08'25	1°39'40
evening max el	11496 Jan 31 00:29	14°♓00'44	26°56'02	max. Earth dist.	11496 Dec 04 13:06	25°♑32'36	1.32918 AU
retrograde	11496 Feb 13 06:53	21°♓23'53			11496 Dec 06 15:46	0°♒	
evening set	11496 Feb 19 20:25	18°♓50'28		evening rise	11496 Dec 09 14:06	6°♒00'19	
min. Earth dist.	11496 Feb 23 20:07	14°♓56'03	0.65762 AU	desc. node	11496 Dec 19 04:38	23°♒58'20	
inferior conj	11496 Feb 25 22:24	12°♓31'19	0°00'43		11496 Dec 22 18:48	0°♓	
minimum elong	11496 Feb 25 22:23	12°♓31'24	0°00'59	evening max el	11497 Jan 12 13:04	27°♓22'33	27°27'01
transit middle	11496 Feb 25 22:23	12°♓31'24	0°00'59		11497 Jan 15 12:21	0°♓	
transit begin	11496 Feb 25 19:25	12°♓39'58		retrograde	11497 Jan 26 05:02	4°♓46'43	
transit end	11496 Feb 26 01:20	12°♓22'51		evening set	11497 Feb 02 01:57	2°♓16'24	
asc. node	11496 Feb 25 21:32	12°♓33'49			11497 Feb 04 18:16	30°♓	
morning rise	11496 Mar 03 01:39	6°♓55'46		min. Earth dist.	11497 Feb 05 21:20	28°♓53'20	0.64066 AU
direct	11496 Mar 05 21:12	6°♓12'36		inferior conj	11497 Feb 08 11:00	26°♓12'20	-1°05'49
morning max el	11496 Mar 12 06:39	9°♓34'50	18°08'31	minimum elong	11497 Feb 08 13:04	26°♓06'55	1°04'29
	11496 Mar 26 15:23	0°♔		asc. node	11497 Feb 11 18:52	22°♓58'32	
desc. node	11496 Mar 30 08:49	6°♔01'39		morning rise	11497 Feb 15 02:13	20°♓51'04	
morning set	11496 Mar 31 01:01	7°♔07'15		direct	11497 Feb 17 13:29	20°♓20'27	
	11496 Apr 14 08:51	0°♕		morning max el	11497 Feb 24 00:03	23°♓40'23	17°49'37
					11497 Mar 01 02:50	0°♔	
superior conj	11496 Apr 15 01:16	1°♕04'29	-1°41'07	morning set	11497 Mar 12 19:27	19°♔01'54	
minimum elong	11496 Apr 14 15:51	0°♕27'27	1°40'32	desc. node	11497 Mar 17 05:27	26°♔29'09	
max. Earth dist.	11496 Apr 17 08:52	4°♕42'23	1.45655 AU		11497 Mar 19 07:56	0°♕	
evening rise	11496 May 01 03:42	26°♕09'17					
	11496 May 03 15:14	0°♖		superior conj	11497 Mar 25 22:43	10°♕50'54	-1°02'37
greatest brilliancy	11496 May 13 08:39	14°♖54'54	-0.7m	minimum elong	11497 Mar 25 16:03	10°♕23'58	1°01'48
asc. node	11496 May 23 19:06	29°♖11'12		max. Earth dist.	11497 Mar 31 03:51	19°♕10'55	1.44985 AU
	11496 May 24 12:51	0°♗			11497 Apr 07 01:54	0°♕	
evening max el	11496 May 25 06:52	0°♗46'45	19°19'44	evening rise	11497 Apr 10 15:57	5°♕31'13	
retrograde	11496 Jun 01 08:13	4°♗44'38			11497 Apr 27 01:07	0°♖	
evening set	11496 Jun 04 22:12	3°♗29'48		evening max el	11497 May 08 09:55	14°♖31'01	20°17'48
	11496 Jun 08 11:42	30°♗		asc. node	11497 May 10 16:18	16°♖35'12	
inferior conj	11496 Jun 10 08:08	27°♖38'42	3°14'53	retrograde	11497 May 16 06:58	19°♖03'46	
minimum elong	11496 Jun 10 08:38	27°♖37'05	3°14'09	evening set	11497 May 20 06:18	17°♖32'58	
min. Earth dist.	11496 Jun 11 17:13	25°♖50'38	0.66909 AU	inferior conj	11497 May 25 13:18	11°♖28'52	3°14'09
morning rise	11496 Jun 15 18:36	21°♖16'42		minimum elong	11497 May 25 12:43	11°♖30'50	3°13'26
direct	11496 Jun 21 21:08	18°♖36'18		min. Earth dist.	11497 May 26 08:11	10°♖24'21	0.67980 AU
desc. node	11496 Jun 26 09:19	19°♖47'43		morning rise	11497 May 30 18:51	5°♖09'20	
morning max el	11496 Jul 04 09:26	26°♖05'39	25°51'01	direct	11497 Jun 05 09:48	2°♖39'34	
	11496 Jul 07 23:41	0°♘		desc. node	11497 Jun 13 06:21	6°♖14'40	
	11496 Jul 29 06:28	0°♙		morning max el	11497 Jun 16 19:16	9°♖29'42	24°26'18
morning set	11496 Aug 09 10:15	19°♙13'35			11497 Jul 02 23:51	0°♘	
max. Earth dist.	11496 Aug 13 04:16	26°♙15'11	1.35551 AU		11497 Jul 21 22:14	0°♙	
	11496 Aug 15 02:48	0°♚		morning set	11497 Jul 22 11:45	0°♙58'43	
				max. Earth dist.	11497 Jul 26 02:42	7°♙24'15	1.37710 AU

superior conj	11497 Aug 02 03:35	20°Ω32'40	-0°41'59		11498 Jul 14 04:42	0°Ω	
minimum elong	11497 Aug 02 06:23	20°Ω46'14	0°41'59				
asc. node	11497 Aug 06 15:46	29°Ω22'26		superior conj	11498 Jul 15 18:51	2°Ω53'14	-1°15'43
	11497 Aug 06 23:20	0°൬		minimum elong	11498 Jul 16 00:07	3°Ω17'22	1°15'34
evening rise	11497 Aug 10 19:11	7°൬37'29		asc. node	11498 Jul 24 12:35	19°Ω17'59	
	11497 Aug 23 09:31	0°Ω		evening rise	11498 Jul 25 12:46	21°Ω13'25	
evening max el	11497 Aug 27 10:23	4°Ω49'42	19°13'09		11498 Jul 30 04:37	0°൬	
retrograde	11497 Sep 05 14:27	9°Ω23'47		evening max el	11498 Aug 10 13:14	17°൬03'19	18°30'19
evening set	11497 Sep 07 10:43	9°Ω13'29		retrograde	11498 Aug 18 08:14	20°൬58'08	
desc. node	11497 Sep 09 04:11	8°Ω46'16		evening set	11498 Aug 20 09:16	20°൬42'49	
inferior conj	11497 Sep 15 23:41	5°Ω02'59	-2°07'42	desc. node	11498 Aug 27 01:34	17°൬02'29	
minimum elong	11497 Sep 15 18:05	5°Ω12'20	2°05'32	inferior conj	11498 Aug 28 03:35	16°൬12'18	-0°20'09
min. Earth dist.	11497 Sep 18 16:43	3°Ω14'44	0.55950 AU	minimum elong	11498 Aug 28 02:47	16°൬13'50	0°20'06
morning rise	11497 Sep 23 22:39	0°Ω24'18		min. Earth dist.	11498 Aug 31 10:20	13°൬39'30	0.57773 AU
	11497 Sep 25 01:47	30°൬൬		morning rise	11498 Sep 04 16:50	10°൬56'31	
direct	11497 Sep 29 05:55	29°൬19'33		direct	11498 Sep 10 17:09	9°൬24'35	
	11497 Oct 03 10:00	0°Ω		morning max el	11498 Sep 25 00:54	16°൬59'24	26°58'19
morning max el	11497 Oct 13 08:18	6°Ω29'18	25°35'55		11498 Oct 05 18:36	0°Ω	
	11497 Oct 30 12:02	0°൬		asc. node	11498 Oct 20 13:39	25°Ω18'10	
asc. node	11497 Nov 02 16:52	5°൬51'22			11498 Oct 22 21:19	0°൬	
morning set	11497 Nov 09 15:12	19°൬55'04		morning set	11498 Oct 25 00:38	4°൬29'07	
	11497 Nov 14 05:54	0°♌					
superior conj	11497 Nov 16 10:34	4°♌51'39	1°37'43	superior conj	11498 Oct 31 22:11	19°൬37'49	1°30'40
minimum elong	11497 Nov 16 09:48	4°♌47'22	1°38'20	minimum elong	11498 Oct 31 20:32	19°൬28'41	1°31'02
max. Earth dist.	11497 Nov 17 17:27	7°♌42'02	1.31928 AU	max. Earth dist.	11498 Nov 01 01:55	19°൬58'40	1.31430 AU
evening rise	11497 Nov 23 12:46	20°♌09'45			11498 Nov 05 14:44	0°♌	
	11497 Nov 28 10:41	0°♌		evening rise	11498 Nov 07 17:41	4°♌34'07	
desc. node	11497 Dec 06 01:41	13°♌42'40			11498 Nov 21 03:35	0°♌	
	11497 Dec 16 23:18	0°♌		desc. node	11498 Nov 22 22:50	2°♌54'40	
evening max el	11497 Dec 25 22:57	10°♌13'43	27°28'31	evening max el	11498 Dec 08 03:23	22°♌20'34	26°56'06
retrograde	11498 Jan 08 19:50	17°♌32'07		retrograde	11498 Dec 22 01:42	29°♌30'14	
evening set	11498 Jan 15 19:25	15°♌13'16		evening set	11498 Dec 28 21:02	27°♌31'46	
min. Earth dist.	11498 Jan 19 12:57	12°♌16'29	0.62097 AU	min. Earth dist.	11499 Jan 01 17:45	24°♌52'26	0.59979 AU
inferior conj	11498 Jan 22 12:00	9°♌31'22	-2°20'12	inferior conj	11499 Jan 04 21:49	22°♌17'50	-3°38'15
minimum elong	11498 Jan 22 16:46	9°♌20'16	2°17'43	minimum elong	11499 Jan 05 05:11	22°♌02'49	3°35'04
morning rise	11498 Jan 29 16:42	4°♌27'11		morning rise	11499 Jan 12 16:06	17°♌33'57	
asc. node	11498 Jan 29 16:08	4°♌27'39		direct	11499 Jan 14 18:34	17°♌17'08	
direct	11498 Jan 31 21:56	4°♌05'17		asc. node	11499 Jan 16 13:21	17°♌29'43	
morning max el	11498 Feb 07 17:17	7°♌32'44	17°48'25	morning max el	11499 Jan 22 06:47	21°♌01'20	18°06'07
	11498 Feb 22 09:12	0°♌			11499 Jan 29 01:27	0°♌	
morning set	11498 Feb 23 12:31	2°♌01'25		morning set	11499 Feb 06 21:47	15°♌45'41	
desc. node	11498 Mar 04 02:06	17°♌04'52			11499 Feb 14 14:34	0°♌	
superior conj	11498 Mar 06 19:52	21°♌45'22	-0°20'52	superior conj	11499 Feb 16 17:04	3°♌47'03	0°17'21
minimum elong	11498 Mar 06 17:52	21°♌36'57	0°20'22	minimum elong	11499 Feb 16 18:27	3°♌53'10	0°17'31
	11498 Mar 11 18:42	0°♌		desc. node	11499 Feb 18 22:47	7°♌44'27	
max. Earth dist.	11498 Mar 13 20:03	3°♌20'55	1.43662 AU	max. Earth dist.	11499 Feb 24 08:08	16°♌58'39	1.41820 AU
evening rise	11498 Mar 21 06:39	15°♌08'25		evening rise	11499 Mar 01 12:40	25°♌29'48	
	11498 Mar 31 01:44	0°♌			11499 Mar 04 08:34	0°♌	
evening max el	11498 Apr 21 07:26	28°♌16'42	21°28'12	evening max el	11499 Mar 24 21:42	0°♌	
	11498 Apr 23 03:06	0°♌		retrograde	11499 Apr 04 00:21	12°♌03'42	22°46'31
asc. node	11498 Apr 27 13:34	2°♌56'50		asc. node	11499 Apr 14 01:50	18°♌00'11	
retrograde	11498 Apr 30 05:22	3°♌30'43		evening set	11499 Apr 14 10:51	17°♌59'31	
evening set	11498 May 04 15:00	1°♌44'03		inferior conj	11499 Apr 18 22:41	15°♌58'30	
	11498 May 06 09:52	30°♌♌		minimum elong	11499 Apr 24 06:50	9°♌34'36	2°39'44
inferior conj	11498 May 09 21:33	25°♌28'50	3°02'03	min. Earth dist.	11499 Apr 24 04:50	9°♌41'34	2°38'53
minimum elong	11498 May 09 20:07	25°♌33'52	3°01'16	morning rise	11499 Apr 23 23:40	9°♌59'31	0.68739 AU
min. Earth dist.	11498 May 10 03:04	25°♌09'38	0.68591 AU	direct	11499 Apr 29 10:52	3°♌25'50	
morning rise	11498 May 15 01:00	19°♌13'59		morning max el	11499 May 03 23:34	1°♌33'47	
direct	11498 May 20 03:00	17°♌01'13		desc. node	11499 May 12 19:44	6°♌41'11	21°30'16
morning max el	11498 May 30 05:36	23°♌00'48	22°56'25		11499 May 18 00:09	12°♌33'14	
desc. node	11498 May 31 03:18	23°♌56'45		morning set	11499 May 30 16:45	0°♌	
	11498 Jun 05 08:40	0°♌			11499 Jun 13 14:11	21°♌10'24	
	11498 Jun 26 08:07	0°♌		max. Earth dist.	11499 Jun 19 01:50	0°♌	
morning set	11498 Jul 03 14:00	11°♌39'39			11499 Jun 20 02:34	1°♌41'28	1.42208 AU
max. Earth dist.	11498 Jul 08 00:02	19°♌06'05	1.40025 AU	superior conj	11499 Jun 27 14:16	14°♌19'36	-1°46'07

minimum elong	11499 Jun 27 20:58	14°  48'34	1°46'10	max. Earth dist.	11500 Jun 02 11:52	15°  07'31	1.44002 AU
	11499 Jul 06 10:05	0° 					
evening rise	11499 Jul 08 17:55	4°  13'47		superior conj	11500 Jun 08 10:03	24°  43'46	-2°07'25
asc. node	11499 Jul 11 09:28	9°  02'21		minimum elong	11500 Jun 08 14:50	25°  03'30	2°07'56
evening max el	11499 Jul 24 23:23	29°  51'56	18°07'57		11500 Jun 11 14:23	0° 	
	11499 Jul 25 02:41	0° 		evening rise	11500 Jun 21 05:50	16°  56'26	
retrograde	11499 Jul 31 20:37	3°  22'20		asc. node	11500 Jun 28 06:23	28°  59'55	
evening set	11499 Aug 03 05:05	2°  58'10			11500 Jun 29 04:02	0° 	
	11499 Aug 08 01:20	30°  58'02		evening max el	11500 Jul 08 12:54	13°  05'00	18°04'53
inferior conj	11499 Aug 10 04:50	28°  06'54	1°06'26	retrograde	11500 Jul 14 23:20	16°  02'54	
minimum elong	11499 Aug 10 06:48	28°  02'24	1°05'18	evening set	11500 Jul 17 15:46	15°  04'40	
min. Earth dist.	11499 Aug 13 11:34	25°  08'48	0.59968 AU	inferior conj	11500 Jul 24 00:05	10°  39'33	2°08'21
desc. node	11499 Aug 13 22:54	24°  04'38		minimum elong	11500 Jul 24 02:47	10°  32'32	2°07'01
morning rise	11499 Aug 17 05:27	22°  02'05		min. Earth dist.	11500 Jul 26 21:59	7°  38'38	0.62235 AU
direct	11499 Aug 23 17:10	20°  01'48		morning rise	11500 Jul 30 11:37	4°  32'06	
morning max el	11499 Sep 07 01:03	28°  01'18	27°46'50	desc. node	11500 Jul 31 20:12	3°  39'15	
	11499 Sep 08 19:01	0° 		direct	11500 Aug 06 04:07	2°  07'51	
	11499 Sep 29 13:45	0° 		morning max el	11500 Aug 20 07:24	10°  10'10	27°56'38
asc. node	11499 Oct 07 10:23	15°  02'44			11500 Sep 04 18:51	0° 	
morning set	11499 Oct 09 06:18	18°  49'41			11500 Sep 21 20:22	0° 	
	11499 Oct 14 10:39	0° 		morning set	11500 Sep 23 06:06	2°  50'21	
max. Earth dist.	11499 Oct 15 10:55	2°  14'11	1.31428 AU	asc. node	11500 Sep 24 07:06	4°  58'43	
				max. Earth dist.	11500 Sep 28 16:17	14°  16'08	1.31924 AU
superior conj	11499 Oct 16 09:35	4°  20'00	1°18'02				
minimum elong	11499 Oct 16 07:25	4°  08'01	1°18'06	superior conj	11500 Sep 30 18:52	18°  51'54	1°00'02
evening rise	11499 Oct 23 02:40	19°  07'34		minimum elong	11500 Sep 30 16:39	18°  39'48	0°59'49
	11499 Oct 28 08:50	0° 			11500 Oct 05 20:25	0° 	
desc. node	11499 Nov 09 20:02	21°  52'14		evening rise	11500 Oct 07 13:40	3°  43'38	
	11499 Nov 16 13:01	0° 			11500 Oct 21 11:11	0° 	
evening max el	11499 Nov 19 23:45	3°  35'00	25°50'08	desc. node	11500 Oct 27 17:17	8°  46'00	
retrograde	11499 Dec 03 21:14	10°  36'22		evening max el	11500 Nov 01 12:16	14°  01'45	24°18'53
evening set	11499 Dec 10 02:21	9°  06'06		retrograde	11500 Nov 15 05:00	20°  52'59	
min. Earth dist.	11499 Dec 14 12:16	6°  32'58	0.57897 AU	evening set	11500 Nov 20 07:39	19°  55'24	
inferior conj	11499 Dec 17 12:56	4°  32'55	-4°50'32	min. Earth dist.	11500 Nov 25 23:22	17°  03'35	0.56105 AU
minimum elong	11499 Dec 17 21:06	4°  07'29	4°47'51	inferior conj	11500 Nov 28 07:28	15°  36'47	-5°40'12
morning rise	11499 Dec 25 18:23	0° 		minimum elong	11500 Nov 28 12:00	15°  29'44	5°39'04
	11499 Dec 25 19:33	30°  58'37		morning rise	11500 Dec 06 18:28	11°  36'37	
direct	11499 Dec 27 22:52	29°  54'31		direct	11500 Dec 09 07:33	11°  19'33	
	11499 Dec 30 00:57	0° 		morning max el	11500 Dec 19 07:31	16°  05'36	19°45'14
asc. node	11500 Jan 03 10:27	2°  30'8"14		asc. node	11500 Dec 21 07:30	18°  11'25	
morning max el	11500 Jan 05 12:48	3°  55'52	18°44'29		11500 Dec 29 08:26	0° 	
morning set	11500 Jan 21 18:15	29°  59'38		morning set	11501 Jan 05 22:12	14°  32'14	
	11500 Jan 21 18:20	0° 					
superior conj	11500 Jan 30 10:21	16°  54'37	0°48'40	superior conj	11501 Jan 13 18:50	0°  54'04	1°12'12
minimum elong	11500 Jan 30 13:10	16°  57'54	0°48'47	minimum elong	11501 Jan 13 21:42	0°  38'14	1°12'29
desc. node	11500 Feb 05 19:30	28°  55'24			11501 Jan 13 13:58	0° 	
max. Earth dist.	11500 Feb 06 15:53	29°  54'24	1.39664 AU	max. Earth dist.	11501 Jan 19 21:52	12°  51'15	1.37441 AU
	11500 Feb 06 17:10	0° 		evening rise	11501 Jan 23 15:16	18°  56'53	
evening rise	11500 Feb 10 15:38	6°  46'37		desc. node	11501 Jan 23 16:17	19°  50'12	
	11500 Feb 25 09:33	0° 			11501 Jan 30 01:58	0° 	
evening max el	11500 Mar 17 14:29	25°  52'49	24°07'02	evening max el	11501 Feb 19 14:07	0° 	
	11500 Mar 22 09:42	0° 		retrograde	11501 Mar 12 08:17	16°  57'31	
retrograde	11500 Mar 28 19:07	2°  27'21		evening set	11501 Mar 18 04:46	14°  21'03	
asc. node	11500 Apr 01 08:09	1°  29'35		asc. node	11501 Mar 19 05:26	13°  51'36	
evening set	11500 Apr 03 03:47	0° 		min. Earth dist.	11501 Mar 22 13:37	9°  32'38	0.67707 AU
	11500 Apr 03 09:25	30°  58'37		inferior conj	11501 Mar 23 21:03	7°  51'04	1°26'08
min. Earth dist.	11500 Apr 07 19:52	24°  48'52	0.68439 AU	minimum elong	11501 Mar 23 19:12	7°  57'02	1°25'28
inferior conj	11500 Apr 08 15:17	23°  43'08	2°07'44	morning rise	11501 Mar 29 10:04	1°  57'59	
minimum elong	11500 Apr 08 13:07	23°  50'29	2°06'53	direct	11501 Apr 01 21:48	0° 	
morning rise	11500 Apr 13 22:32	17°  41'33		morning max el	11501 Apr 08 21:21	4°  37'32	19°12'39
direct	11500 Apr 17 22:16	16°  51'09		desc. node	11501 Apr 21 17:40	21°  35'08	
morning max el	11500 Apr 25 16:40	20°  53'41	20°14'20	greatest brilliancy	11501 Apr 21 19:42	21°  42'43	-0.7m
	11500 May 03 12:54	0° 			11501 Apr 27 07:01	0° 	
desc. node	11500 May 04 20:56	1° 49'32		morning set	11501 May 02 19:36	8° 29'44	
morning set	11500 May 23 17:44	29° 48'46		max. Earth dist.	11501 May 16 02:51	29° 11'46	1.45209 AU
	11500 May 23 20:39	0°			11501 May 16 15:07	0°	

superior conj	11501 May 19 06:57	4° Π 11'59	-2°12'50	superior conj	11502 Apr 28 14:25	13° \mathcal{B} 10'52	-1°58'03
minimum elong	11501 May 19 05:17	4° Π 05'22	2°13'25	minimum elong	11502 Apr 28 06:07	12° \mathcal{B} 38'27	1°57'56
evening rise	11501 Jun 02 19:49	27° Π 41'52		max. Earth dist.	11502 Apr 28 21:39	13° \mathcal{B} 39'09	1.45711 AU
	11501 Jun 04 05:21	0° \mathcal{E}			11502 May 09 08:18	0° Π	
asc. node	11501 Jun 15 03:23	17° \mathcal{E} 35'00		evening rise	11502 May 14 09:34	7° Π 57'22	
evening max el	11501 Jun 22 02:32	26° \mathcal{E} 34'58	18°20'15	greatest brilliancy	11502 May 23 18:34	22° Π 42'10	-0.8m
retrograde	11501 Jun 28 11:57	29° \mathcal{E} 59'49			11502 May 28 13:59	0° \mathcal{E}	
evening set	11501 Jul 01 12:29	29° \mathcal{E} 09'40		asc. node	11502 Jun 02 00:28	6° \mathcal{E} 09'17	
inferior conj	11501 Jul 07 09:18	23° \mathcal{E} 42'35	2°48'01	evening max el	11502 Jun 05 13:33	10° \mathcal{E} 14'34	18°53'17
minimum elong	11501 Jul 07 11:29	23° \mathcal{E} 36'15	2°46'55	retrograde	11502 Jun 12 06:41	13° \mathcal{E} 56'32	
min. Earth dist.	11501 Jul 09 17:52	20° \mathcal{E} 59'08	0.64335 AU	evening set	11502 Jun 15 15:40	12° \mathcal{E} 50'52	
morning rise	11501 Jul 13 09:09	17° \mathcal{E} 24'24		inferior conj	11502 Jun 21 04:38	7° \mathcal{E} 08'18	3°09'26
desc. node	11501 Jul 18 17:26	14° \mathcal{E} 50'55		minimum elong	11502 Jun 21 05:47	7° \mathcal{E} 04'40	3°08'35
direct	11501 Jul 20 00:09	14° \mathcal{E} 45'17		min. Earth dist.	11502 Jun 22 22:18	4° \mathcal{E} 57'18	0.66098 AU
morning max el	11501 Aug 02 17:15	22° \mathcal{E} 45'56	27°29'50	morning rise	11502 Jun 26 19:14	0° \mathcal{E} 46'29	
	11501 Aug 09 02:35	0° \mathcal{Q}			11502 Jun 27 18:23	30° \mathcal{R} Π	
	11501 Aug 29 01:26	0° \mathcal{M}		direct	11502 Jul 03 03:31	28° Π 03'32	
morning set	11501 Sep 06 21:34	16° \mathcal{M} 24'46		desc. node	11502 Jul 05 14:35	28° Π 24'49	
asc. node	11501 Sep 11 03:50	25° \mathcal{M} 01'41			11502 Jul 09 03:34	0° \mathcal{E}	
max. Earth dist.	11501 Sep 11 14:14	25° \mathcal{M} 55'41	1.32939 AU	morning max el	11502 Jul 16 04:01	5° \mathcal{E} 48'13	26°33'20
	11501 Sep 13 12:45	0° \mathcal{L}			11502 Aug 03 18:10	0° \mathcal{Q}	
				morning set	11502 Aug 21 01:35	29° \mathcal{Q} 25'02	
superior conj	11501 Sep 15 00:04	3° \mathcal{L} 08'06	0°36'53		11502 Aug 21 08:59	0° \mathcal{M}	
minimum elong	11501 Sep 14 22:23	2° \mathcal{L} 59'05	0°36'31	max. Earth dist.	11502 Aug 25 02:14	7° \mathcal{M} 11'49	1.34466 AU
evening rise	11501 Sep 22 00:52	18° \mathcal{L} 17'28		asc. node	11502 Aug 29 00:35	15° \mathcal{M} 07'38	
	11501 Sep 27 17:56	0° \mathcal{M}					
evening max el	11501 Oct 13 22:59	24° \mathcal{M} 07'01	22°37'53	superior conj	11502 Aug 29 22:53	17° \mathcal{M} 02'35	0°09'02
desc. node	11501 Oct 14 14:36	24° \mathcal{M} 44'12		minimum elong	11502 Aug 29 22:24	17° \mathcal{M} 00'06	0°08'42
	11501 Oct 23 00:49	0° \mathcal{J}		behind sun begin	11502 Aug 29 17:27	16° \mathcal{M} 34'30	
retrograde	11501 Oct 27 00:21	0° \mathcal{J} 36'32		behind sun end	11502 Aug 30 03:21	17° \mathcal{M} 25'45	
evening set	11501 Oct 30 16:03	0° \mathcal{J} 07'19			11502 Sep 05 03:05	0° \mathcal{L}	
	11501 Oct 31 02:42	30° \mathcal{R} \mathcal{M}		evening rise	11502 Sep 06 10:22	2° \mathcal{L} 44'00	
min. Earth dist.	11501 Nov 07 06:55	26° \mathcal{M} 41'45	0.54916 AU		11502 Sep 21 19:39	0° \mathcal{M}	
inferior conj	11501 Nov 08 07:57	26° \mathcal{M} 06'11	-5°45'08	evening max el	11502 Sep 25 17:12	4° \mathcal{M} 27'37	21°03'49
minimum elong	11501 Nov 08 04:21	26° \mathcal{M} 11'18	5°44'19	desc. node	11502 Oct 01 11:57	8° \mathcal{M} 47'57	
morning rise	11501 Nov 16 18:12	22° \mathcal{M} 18'11		retrograde	11502 Oct 07 11:41	10° \mathcal{M} 18'10	
direct	11501 Nov 19 23:01	21° \mathcal{M} 54'45		evening set	11502 Oct 09 22:02	10° \mathcal{M} 04'16	
morning max el	11501 Dec 01 12:25	27° \mathcal{M} 23'29	21°08'32	inferior conj	11502 Oct 18 23:54	6° \mathcal{M} 09'34	-4°51'54
	11501 Dec 04 00:32	0° \mathcal{J}		minimum elong	11502 Oct 18 14:15	6° \mathcal{M} 23'11	4°49'14
asc. node	11501 Dec 08 04:31	5° \mathcal{J} 23'12		min. Earth dist.	11502 Oct 19 14:05	5° \mathcal{M} 49'32	0.54585 AU
morning set	11501 Dec 21 06:51	29° \mathcal{J} 15'25		morning rise	11502 Oct 27 06:52	2° \mathcal{M} 16'55	
	11501 Dec 21 15:24	0° \mathcal{Z}		direct	11502 Oct 31 07:14	1° \mathcal{M} 42'17	
				morning max el	11502 Nov 13 04:54	7° \mathcal{M} 54'07	22°50'07
superior conj	11501 Dec 28 14:19	14° \mathcal{Z} 33'14	1°28'05	asc. node	11502 Nov 25 01:29	23° \mathcal{M} 28'01	
minimum elong	11501 Dec 28 16:25	14° \mathcal{Z} 44'05	1°28'37		11502 Nov 28 18:10	0° \mathcal{J}	
max. Earth dist.	11502 Jan 02 07:25	24° \mathcal{Z} 04'58	1.35400 AU	morning set	11502 Dec 05 18:04	14° \mathcal{J} 03'21	
	11502 Jan 05 08:46	0° \approx					
evening rise	11502 Jan 06 08:35	1° \approx 52'17		superior conj	11502 Dec 12 17:31	29° \mathcal{J} 02'45	1°36'52
desc. node	11502 Jan 10 13:06	9° \approx 30'39		minimum elong	11502 Dec 12 18:31	29° \mathcal{J} 08'03	1°37'34
	11502 Jan 23 02:40	0° \mathcal{H}			11502 Dec 13 04:15	0° \mathcal{Z}	
evening max el	11502 Feb 10 17:22	23° \mathcal{H} 30'59	26°27'25	max. Earth dist.	11502 Dec 16 00:32	5° \mathcal{Z} 59'54	1.33703 AU
	11502 Feb 19 17:31	0° \mathcal{Y}		evening rise	11502 Dec 20 15:56	15° \mathcal{Z} 23'37	
retrograde	11502 Feb 23 16:13	0° \mathcal{Y} 49'58		desc. node	11502 Dec 28 10:02	29° \mathcal{Z} 47'53	
	11502 Feb 27 08:17	30° \mathcal{R} \mathcal{H}			11502 Dec 28 12:49	0° \approx	
evening set	11502 Mar 01 23:51	28° \mathcal{H} 18'11			11503 Jan 17 18:10	0° \mathcal{H}	
min. Earth dist.	11502 Mar 06 02:41	24° \mathcal{H} 04'11	0.66577 AU	evening max el	11503 Jan 24 06:56	7° \mathcal{H} 06'37	27°12'30
asc. node	11502 Mar 06 02:46	24° \mathcal{H} 03'56		retrograde	11503 Feb 06 17:59	14° \mathcal{H} 30'29	
inferior conj	11502 Mar 07 22:03	21° \mathcal{H} 53'09	0°34'45	evening set	11503 Feb 13 11:02	11° \mathcal{H} 57'50	
minimum elong	11502 Mar 07 21:09	21° \mathcal{H} 55'52	0°34'35	min. Earth dist.	11503 Feb 17 08:52	8° \mathcal{H} 16'54	0.65084 AU
morning rise	11502 Mar 13 19:23	16° \mathcal{H} 10'18		inferior conj	11503 Feb 19 16:00	5° \mathcal{H} 44'17	-0°26'20
direct	11502 Mar 16 20:25	15° \mathcal{H} 18'17		minimum elong	11503 Feb 19 16:46	5° \mathcal{H} 42'10	0°25'40
morning max el	11502 Mar 23 08:47	18° \mathcal{H} 47'11	18°27'03	asc. node	11503 Feb 21 00:05	4° \mathcal{H} 16'47	
	11502 Apr 01 01:01	0° \mathcal{Y}		morning rise	11503 Feb 26 00:03	0° \mathcal{H} 14'10	
desc. node	11502 Apr 08 14:21	11° \mathcal{Y} 41'27			11503 Feb 26 13:38	30° \mathcal{R} \approx	
morning set	11502 Apr 12 17:27	18° \mathcal{Y} 13'24		direct	11503 Feb 28 15:56	29° \approx 36'40	
	11502 Apr 20 04:30	0° \mathcal{B}			11503 Mar 02 18:28	0° \mathcal{H}	
				morning max el	11503 Mar 07 00:48	2° \mathcal{H} 56'33	17°58'17

morning set	11503 Mar 24 20:14	29° Υ 23'09		desc. node	11504 Mar 12 07:41	22° Υ 34'32	
	11503 Mar 25 05:10	0° Υ			11504 Mar 16 17:52	0° Υ	
desc. node	11503 Mar 26 11:01	2° Υ 02'54					
				superior conj	11504 Mar 18 08:55	2° Υ 41'18	-0°44'49
superior conj	11503 Apr 08 01:57	22° Υ 27'12	-1°25'46	minimum elong	11504 Mar 18 04:16	2° Υ 22'10	0°44'05
minimum elong	11503 Apr 07 17:08	21° Υ 52'14	1°24'59	max. Earth dist.	11504 Mar 24 12:20	12° Υ 38'00	1.44501 AU
max. Earth dist.	11503 Apr 11 17:47	28° Υ 13'37	1.45467 AU	evening rise	11504 Apr 02 15:08	26° Υ 53'47	
	11503 Apr 12 20:55	0° Υ			11504 Apr 04 15:46	0° Υ	
evening rise	11503 Apr 24 03:44	17° Υ 29'47			11504 Apr 25 07:55	0° Υ	
	11503 May 02 08:00	0° Υ		evening max el	11504 May 01 20:30	7° Υ 43'03	20°46'26
greatest brilliancy	11503 May 08 03:42	8° Υ 42'51	-0.6m	asc. node	11504 May 05 18:49	11° Υ 02'06	
asc. node	11503 May 19 21:38	24° Υ 02'36		retrograde	11504 May 10 03:31	12° Υ 32'48	
evening max el	11503 May 19 19:54	23° Υ 58'16	19°42'44	evening set	11504 May 14 07:12	10° Υ 54'57	
retrograde	11503 May 27 04:39	28° Υ 09'24		inferior conj	11504 May 19 13:42	4° Υ 45'40	3°10'18
evening set	11503 May 30 22:37	26° Υ 47'36		minimum elong	11504 May 19 12:44	4° Υ 49'02	3°09'35
inferior conj	11503 Jun 05 06:59	20° Υ 50'49	3°16'02	min. Earth dist.	11504 May 20 02:43	4° Υ 00'45	0.68297 AU
minimum elong	11503 Jun 05 07:00	20° Υ 50'44	3°15'19		11504 May 23 05:48	30° Υ	
min. Earth dist.	11503 Jun 06 09:52	19° Υ 21'04	0.67430 AU	morning rise	11504 May 24 18:03	28° Υ 28'02	
morning rise	11503 Jun 10 15:02	14° Υ 29'50		direct	11504 May 30 03:29	26° Υ 05'12	
direct	11503 Jun 16 12:57	11° Υ 53'06			11504 Jun 07 06:05	0° Υ	
desc. node	11503 Jun 22 11:41	13° Υ 57'03		desc. node	11504 Jun 08 08:41	0° Υ 59'01	
morning max el	11503 Jun 28 14:14	19° Υ 06'36	25°16'10	morning max el	11504 Jun 10 00:10	2° Υ 34'29	23°48'11
	11503 Jul 07 19:47	0° Υ			11504 Jun 30 21:21	0° Υ	
	11503 Jul 27 20:16	0° Υ		morning set	11504 Jul 15 06:20	23° Υ 00'24	
morning set	11503 Aug 03 14:05	11° Υ 40'48		max. Earth dist.	11504 Jul 19 02:25	29° Υ 39'36	1.38692 AU
max. Earth dist.	11503 Aug 07 04:48	18° Υ 17'39	1.36440 AU		11504 Jul 19 07:03	0° Υ	
	11503 Aug 13 06:48	0° Υ					
				superior conj	11504 Jul 26 12:58	13° Υ 14'31	-0°56'24
superior conj	11503 Aug 13 12:22	0° Υ 27'33	-0°22'39	minimum elong	11504 Jul 26 16:51	13° Υ 32'51	0°56'19
minimum elong	11503 Aug 13 13:49	0° Υ 34'42	0°22'47	asc. node	11504 Aug 01 18:09	25° Υ 12'46	
asc. node	11503 Aug 15 21:21	5° Υ 12'29			11504 Aug 04 04:49	0° Υ	
evening rise	11503 Aug 21 15:57	16° Υ 56'58		evening rise	11504 Aug 04 14:54	0° Υ 49'19	
	11503 Aug 28 08:28	0° Υ		evening max el	11504 Aug 20 21:21	27° Υ 17'23	18°52'17
evening max el	11503 Sep 08 00:40	15° Υ 28'39	19°47'20		11504 Aug 24 06:14	0° Υ	
retrograde	11503 Sep 18 03:15	20° Υ 30'29		retrograde	11504 Aug 29 10:19	1° Υ 33'39	
desc. node	11503 Sep 18 09:20	20° Υ 30'18		evening set	11504 Aug 31 07:49	1° Υ 21'48	
evening set	11503 Sep 20 00:30	20° Υ 20'46			11504 Sep 03 23:05	30° Υ	
inferior conj	11503 Sep 28 21:39	16° Υ 18'43	-3°12'54	desc. node	11504 Sep 04 06:42	29° Υ 49'47	
minimum elong	11503 Sep 28 13:16	16° Υ 31'39	3°09'48	inferior conj	11504 Sep 08 13:09	27° Υ 02'55	-1°20'14
min. Earth dist.	11503 Sep 30 23:30	15° Υ 01'57	0.55202 AU	minimum elong	11504 Sep 08 09:46	27° Υ 08'58	1°19'00
morning rise	11503 Oct 07 00:25	12° Υ 00'58		min. Earth dist.	11504 Sep 11 13:46	24° Υ 53'53	0.56654 AU
direct	11503 Oct 11 20:29	11° Υ 09'35		morning rise	11504 Sep 16 08:26	22° Υ 07'57	
morning max el	11503 Oct 25 15:45	17° Υ 59'44	24°38'04	direct	11504 Sep 21 23:10	20° Υ 52'26	
	11503 Nov 04 13:01	0° Υ		morning max el	11504 Oct 06 05:06	28° Υ 14'00	26°14'35
asc. node	11503 Nov 11 22:23	12° Υ 12'07			11504 Oct 07 23:17	0° Υ	
morning set	11503 Nov 20 05:56	28° Υ 49'26			11504 Oct 28 01:24	0° Υ	
	11503 Nov 20 19:06	0° Υ		asc. node	11504 Oct 28 19:13	1° Υ 25'46	
				morning set	11504 Nov 03 16:45	13° Υ 29'15	
superior conj	11503 Nov 27 01:40	13° Υ 43'32	1°39'10	superior conj	11504 Nov 10 12:34	28° Υ 29'25	1°35'25
minimum elong	11503 Nov 27 01:30	13° Υ 42'38	1°39'51	minimum elong	11504 Nov 10 11:24	28° Υ 22'53	1°35'56
max. Earth dist.	11503 Nov 29 01:23	18° Υ 03'32	1.32439 AU		11504 Nov 11 04:54	0° Υ	
evening rise	11503 Dec 04 09:49	29° Υ 20'42		max. Earth dist.	11504 Nov 11 07:53	0° Υ 16'33	1.31654 AU
	11503 Dec 04 17:32	0° Υ		evening rise	11504 Nov 17 11:24	13° Υ 36'39	
desc. node	11503 Dec 15 07:03	19° Υ 46'08			11504 Nov 25 19:20	0° Υ	
	11503 Dec 21 15:12	0° Υ		desc. node	11504 Dec 01 04:07	9° Υ 17'42	
evening max el	11504 Jan 06 18:42	20° Υ 16'58	27°31'32		11504 Dec 16 07:23	0° Υ	
retrograde	11504 Jan 20 12:50	27° Υ 38'31		evening max el	11504 Dec 19 02:20	2° Υ 49'19	27°18'51
evening set	11504 Jan 27 11:47	25° Υ 11'59		retrograde	11505 Jan 02 00:02	10° Υ 04'36	
min. Earth dist.	11504 Jan 31 06:00	22° Υ 01'06	0.63264 AU	evening set	11505 Jan 08 22:58	7° Υ 52'56	
inferior conj	11504 Feb 03 00:02	19° Υ 16'50	-1°36'31	min. Earth dist.	11505 Jan 12 16:49	5° Υ 05'17	0.61206 AU
minimum elong	11504 Feb 03 03:12	19° Υ 08'58	1°34'42	inferior conj	11505 Jan 15 18:56	2° Υ 22'26	-2°53'18
asc. node	11504 Feb 07 21:22	15° Υ 03'10		minimum elong	11505 Jan 16 00:53	2° Υ 09'19	2°50'25
morning rise	11504 Feb 09 20:51	14° Υ 02'29			11505 Jan 18 15:00	30° Υ	
direct	11504 Feb 12 05:23	13° Υ 35'54		morning rise	11505 Jan 23 05:34	27° Υ 26'55	
morning max el	11504 Feb 18 18:31	16° Υ 57'27	17°46'53	asc. node	11505 Jan 24 18:36	27° Υ 09'12	
	11504 Feb 28 03:19	0° Υ		direct	11505 Jan 25 09:09	27° Υ 07'38	
morning set	11504 Mar 06 01:06	11° Υ 48'01					

	11505 Jan 31 17:10	0°♊		morning max el	11506 Jan 15 21:30	13°♊56'46	18°19'50
morning max el	11505 Feb 01 10:38	0°♊40'52	17°53'37		11506 Jan 26 19:23	0°♊	
morning set	11505 Feb 17 01:43	25°♊08'10		morning set	11506 Jan 31 16:18	9°♊06'43	
	11505 Feb 19 18:01	0°♋					
desc. node	11505 Feb 27 04:21	13°♋12'15		superior conj	11506 Feb 09 23:01	26°♊32'58	0°31'33
				minimum elong	11506 Feb 10 01:13	26°♊43'01	0°31'39
superior conj	11505 Feb 27 16:39	14°♋05'34	-0°03'58		11506 Feb 11 20:44	0°♋	
minimum elong	11505 Feb 27 16:19	14°♋04'08	0°03'39	desc. node	11506 Feb 14 01:02	3°♋52'41	
behind sun begin	11505 Feb 27 08:12	13°♋28'56		max. Earth dist.	11506 Feb 17 12:17	9°♋53'41	1.40921 AU
behind sun end	11505 Feb 28 00:27	14°♋39'15		evening rise	11506 Feb 22 01:49	17°♋31'48	
max. Earth dist.	11505 Mar 07 02:43	26°♋35'02	1.42925 AU		11506 Mar 01 22:21	0°♌	
	11505 Mar 09 05:04	0°♌			11506 Mar 23 12:06	0°♌	
evening rise	11505 Mar 13 11:05	6°♌46'38		evening max el	11506 Mar 28 07:13	5°♌16'47	23°20'54
	11505 Mar 28 21:37	0°♍		retrograde	11506 Apr 07 20:43	11°♌30'44	
evening max el	11505 Apr 14 15:42	21°♍28'30	22°00'51	asc. node	11506 Apr 09 13:20	11°♌17'15	
asc. node	11505 Apr 22 16:03	26°♍52'10		evening set	11506 Apr 12 22:25	9°♍23'21	
retrograde	11505 Apr 24 01:24	27°♍01'25		inferior conj	11506 Apr 18 07:49	2°♍56'40	2°27'22
evening set	11505 Apr 28 15:39	25°♍08'11		minimum elong	11506 Apr 18 05:41	3°♍04'00	2°26'30
inferior conj	11505 May 03 22:38	18°♍48'39	2°53'48	min. Earth dist.	11506 Apr 17 19:28	3°♍39'14	0.68663 AU
minimum elong	11505 May 03 20:54	18°♍54'40	2°52'59		11506 Apr 20 12:44	30°♌♌	
min. Earth dist.	11505 May 03 22:38	18°♍48'37	0.68704 AU	morning rise	11506 Apr 23 12:52	26°♌50'31	
morning rise	11505 May 09 01:59	12°♍36'05		direct	11506 Apr 27 19:58	25°♌07'34	
direct	11505 May 13 22:13	10°♍32'00		morning max el	11506 May 06 04:29	29°♌54'57	20°56'20
morning max el	11505 May 23 11:49	16°♍09'39	22°18'52		11506 May 06 06:30	0°♍	
desc. node	11505 May 26 05:36	19°♍06'23		desc. node	11506 May 13 02:26	8°♍01'36	
	11505 Jun 03 19:29	0°♎			11506 May 28 11:37	0°♎	
	11505 Jun 23 21:57	0°♏		morning set	11506 Jun 05 11:27	12°♎15'29	
morning set	11505 Jun 25 21:32	3°♏11'32		max. Earth dist.	11506 Jun 13 05:57	24°♎37'36	1.43037 AU
max. Earth dist.	11505 Jul 01 01:07	11°♏41'44	1.40982 AU		11506 Jun 16 12:39	0°♏	
superior conj	11505 Jul 08 20:16	25°♏12'40	-1°29'19	superior conj	11506 Jun 20 05:57	6°♏13'15	-1°56'40
minimum elong	11505 Jul 09 02:23	25°♏40'01	1°29'13	minimum elong	11506 Jun 20 12:23	6°♏40'27	1°56'54
	11505 Jul 11 12:02	0°♐		evening rise	11506 Jul 02 02:05	26°♏52'14	
evening rise	11505 Jul 19 03:42	14°♐11'12			11506 Jul 03 20:14	0°♐	
asc. node	11505 Jul 19 14:57	15°♐03'51		asc. node	11506 Jul 06 11:49	4°♐41'24	
	11505 Jul 27 22:35	0°♑		evening max el	11506 Jul 18 15:50	22°♐47'07	18°04'22
evening max el	11505 Aug 04 03:47	9°♑46'52	18°18'24	retrograde	11506 Jul 25 07:05	26°♐11'15	
retrograde	11505 Aug 11 12:17	13°♑29'32		evening set	11506 Jul 27 19:00	25°♐42'18	
evening set	11505 Aug 13 16:12	13°♑11'01		inferior conj	11506 Aug 03 11:45	20°♐43'01	1°35'38
inferior conj	11505 Aug 21 02:24	8°♑31'50	0°19'33	minimum elong	11506 Aug 03 14:14	20°♐37'00	1°34'20
minimum elong	11505 Aug 21 03:04	8°♑30'26	0°18'58	min. Earth dist.	11506 Aug 06 15:41	17°♐40'51	0.60948 AU
desc. node	11505 Aug 22 04:03	7°♑37'52		desc. node	11506 Aug 09 01:22	15°♐38'37	
min. Earth dist.	11505 Aug 24 10:40	5°♑45'15	0.58678 AU	morning rise	11506 Aug 10 06:45	14°♐46'19	
morning rise	11505 Aug 28 10:26	3°♑01'24		direct	11506 Aug 16 21:34	12°♐34'37	
direct	11505 Sep 03 16:22	1°♑16'55		morning max el	11506 Aug 31 03:45	20°♐32'18	27°55'38
morning max el	11505 Sep 18 00:59	9°♑01'10	27°23'32		11506 Sep 08 07:28	0°♑	
	11505 Oct 04 01:29	0°♒			11506 Sep 27 00:52	0°♒	
asc. node	11505 Oct 15 15:59	21°♒00'40		asc. node	11506 Oct 02 12:43	10°♒50'21	
morning set	11505 Oct 19 00:47	27°♒57'58		morning set	11506 Oct 03 04:11	12°♒10'12	
	11505 Oct 19 23:43	0°♓		max. Earth dist.	11506 Oct 09 00:33	24°♒42'29	1.31573 AU
max. Earth dist.	11505 Oct 25 16:48	12°♓32'37	1.31361 AU				
				superior conj	11506 Oct 10 11:02	27°♒52'47	1°11'03
superior conj	11505 Oct 26 00:19	13°♓14'30	1°25'59	minimum elong	11506 Oct 10 08:47	27°♒40'24	1°10'59
minimum elong	11505 Oct 25 22:24	13°♓03'52	1°26'13		11506 Oct 11 10:00	0°♓	
evening rise	11505 Nov 01 18:15	28°♓05'13		evening rise	11506 Oct 17 04:18	12°♓40'13	
	11505 Nov 02 15:51	0°♈			11506 Oct 25 19:21	0°♈	
desc. node	11505 Nov 18 01:16	28°♈12'15		desc. node	11506 Nov 04 22:29	16°♈14'50	
	11505 Nov 19 05:54	0°♉		evening max el	11506 Nov 12 20:23	25°♈27'01	25°13'48
evening max el	11505 Dec 01 03:25	14°♉33'57	26°31'54		11506 Nov 18 17:19	0°♉	
retrograde	11505 Dec 15 02:08	21°♉40'56		retrograde	11506 Nov 26 16:49	2°♉24'19	
evening set	11505 Dec 21 16:36	19°♉53'36		evening set	11506 Dec 02 11:57	1°♉08'13	
min. Earth dist.	11505 Dec 25 17:15	17°♉17'31	0.59066 AU		11506 Dec 04 19:24	30°♌♌	
inferior conj	11505 Dec 28 21:11	14°♉52'03	-4°10'30	min. Earth dist.	11506 Dec 07 08:28	28°♈27'35	0.57074 AU
minimum elong	11505 Dec 29 05:15	14°♉36'32	4°07'21	inferior conj	11506 Dec 10 03:39	26°♈35'48	-5°15'42
morning rise	11506 Jan 05 20:43	10°♉17'48		minimum elong	11506 Dec 10 10:57	26°♈23'37	5°13'38
direct	11506 Jan 07 23:09	10°♉02'15		morning rise	11506 Dec 18 12:13	22°♈23'38	
asc. node	11506 Jan 11 15:47	10°♉52'57		direct	11506 Dec 20 19:27	22°♈08'08	

asc. node	11506 Dec 29 12:54	26°♊09'03		direct	11507 Dec 01 20:29	3°♊17'26	
morning max el	11506 Dec 29 23:06	26°♊33'06	19°07'29	morning max el	11507 Dec 12 11:59	8°♊20'39	20°18'00
	11507 Jan 02 01:07	0°♊		asc. node	11507 Dec 16 09:58	12°♊43'16	
morning set	11507 Jan 15 16:21	23°♊29'41			11507 Dec 26 21:17	0°♊	
	11507 Jan 18 22:57	0°♊		morning set	11507 Dec 30 22:38	8°♊07'47	
superior conj	11507 Jan 23 23:18	9°♊49'27	0°59'36	superior conj	11508 Jan 07 12:57	23°♊42'39	1°19'49
minimum elong	11507 Jan 24 02:17	10°♊03'46	0°59'46	minimum elong	11508 Jan 07 15:33	23°♊55'48	1°20'14
max. Earth dist.	11507 Jan 30 18:53	22°♊31'26	1.38713 AU		11508 Jan 10 16:50	0°♊	
desc. node	11507 Jan 31 21:46	24°♊31'34		max. Earth dist.	11508 Jan 13 02:14	4°♊37'17	1.36545 AU
evening rise	11507 Feb 03 13:52	29°♊12'13		evening rise	11508 Jan 16 21:28	11°♊42'27	
	11507 Feb 04 00:58	0°♊		desc. node	11508 Jan 18 18:34	15°♊05'24	
	11507 Feb 23 07:48	0°♊			11508 Jan 27 15:00	0°♊	
evening max el	11507 Mar 10 21:00	19°♊07'28	24°40'24		11508 Feb 18 13:53	0°♊	
retrograde	11507 Mar 22 12:17	25°♊54'52		evening max el	11508 Feb 21 10:25	2°♊57'21	25°52'17
asc. node	11507 Mar 27 10:39	24°♊05'59		retrograde	11508 Mar 04 23:07	10°♊07'54	
evening set	11507 Mar 28 01:58	23°♊35'13		evening set	11508 Mar 11 00:39	7°♊39'05	
min. Earth dist.	11507 Apr 01 14:54	18°♊26'39	0.68182 AU	asc. node	11508 Mar 13 07:59	5°♊24'06	
inferior conj	11507 Apr 02 15:22	17°♊05'18	1°51'18	min. Earth dist.	11508 Mar 15 06:50	3°♊05'38	0.67280 AU
minimum elong	11507 Apr 02 13:16	17°♊12'17	1°50'29	inferior conj	11508 Mar 16 19:21	1°♊10'44	1°05'34
morning rise	11507 Apr 08 00:44	11°♊07'02		minimum elong	11508 Mar 16 17:50	1°♊15'32	1°05'03
direct	11507 Apr 11 19:21	9°♊45'20			11508 Mar 17 18:02	30°♊	
morning max el	11507 Apr 19 04:36	13°♊51'59	19°46'11	morning rise	11508 Mar 22 11:37	25°♊21'55	
desc. node	11507 Apr 29 23:12	27°♊31'15		direct	11508 Mar 25 18:43	24°♊19'54	
	11507 May 01 16:22	0°♊		morning max el	11508 Apr 01 12:24	27°♊58'40	18°51'16
greatest brilliancy	11507 May 02 01:43	0°♊34'05	-0.6m		11508 Apr 03 10:00	0°♊	
morning set	11507 May 15 11:25	20°♊46'39		greatest brilliancy	11508 Apr 15 16:30	17°♊13'01	-0.8m
	11507 May 21 10:19	0°♊		desc. node	11508 Apr 15 19:55	17°♊26'04	
max. Earth dist.	11507 May 26 18:14	8°♊23'00	1.44603 AU	morning set	11508 Apr 23 19:42	29°♊48'32	
					11508 Apr 23 22:39	0°♊	
superior conj	11507 May 31 15:35	16°♊12'24	-2°12'01	max. Earth dist.	11508 May 08 11:41	22°♊40'45	1.45515 AU
minimum elong	11507 May 31 18:07	16°♊22'35	2°12'39				
	11507 Jun 09 01:13	0°♊		superior conj	11508 May 10 04:56	25°♊22'28	-2°09'02
evening rise	11507 Jun 14 05:12	8°♊41'38		minimum elong	11508 May 09 23:59	25°♊03'05	2°09'25
asc. node	11507 Jun 23 08:46	24°♊00'16			11508 May 13 03:29	0°♊	
	11507 Jun 27 06:38	0°♊		evening rise	11508 May 25 08:53	19°♊31'06	
evening max el	11507 Jul 02 05:52	6°♊08'54	18°09'12		11508 May 31 20:45	0°♊	
retrograde	11507 Jul 08 14:33	9°♊29'24		asc. node	11508 Jun 09 05:48	12°♊53'10	
evening set	11507 Jul 11 10:32	8°♊47'24		evening max el	11508 Jun 14 18:40	19°♊43'25	18°32'09
inferior conj	11507 Jul 17 13:27	3°♊29'42	2°27'40	retrograde	11508 Jun 21 06:19	23°♊14'09	
minimum elong	11507 Jul 17 16:02	3°♊22'38	2°26'24	evening set	11508 Jun 24 10:25	22°♊17'26	
min. Earth dist.	11507 Jul 20 05:57	0°♊34'19	0.63167 AU	inferior conj	11508 Jun 30 03:26	16°♊43'17	2°59'08
	11507 Jul 20 19:13	30°♊		minimum elong	11508 Jun 30 05:13	16°♊37'55	2°58'08
morning rise	11507 Jul 23 19:48	27°♊16'55		min. Earth dist.	11508 Jul 02 05:35	14°♊12'28	0.65129 AU
desc. node	11507 Jul 26 22:38	25°♊27'50		morning rise	11508 Jul 05 23:01	10°♊22'47	
direct	11507 Jul 30 12:28	24°♊45'16		direct	11508 Jul 12 11:33	7°♊41'04	
	11507 Aug 10 12:01	0°♊		desc. node	11508 Jul 12 19:52	7°♊41'29	
morning max el	11507 Aug 13 11:51	2°♊47'24	27°49'24	morning max el	11508 Jul 25 22:34	15°♊36'34	27°09'03
	11507 Sep 02 17:20	0°♊			11508 Aug 06 18:14	0°♊	
morning set	11507 Sep 17 00:48	26°♊00'45			11508 Aug 25 11:58	0°♊	
	11507 Sep 18 23:46	0°♊		morning set	11508 Aug 30 11:50	9°♊21'41	
asc. node	11507 Sep 19 09:25	0°♊49'56		max. Earth dist.	11508 Sep 03 21:37	18°♊07'24	1.33532 AU
max. Earth dist.	11507 Sep 22 03:22	6°♊36'51	1.32297 AU	asc. node	11508 Sep 05 06:09	20°♊54'21	
superior conj	11507 Sep 24 18:53	12°♊19'07	0°50'50	superior conj	11508 Sep 07 21:41	26°♊26'35	0°25'36
minimum elong	11507 Sep 24 16:49	12°♊07'54	0°50'32	minimum elong	11508 Sep 07 20:25	26°♊19'55	0°25'14
evening rise	11507 Oct 01 15:41	27°♊16'38			11508 Sep 09 13:52	0°♊	
	11507 Oct 02 22:21	0°♊		evening rise	11508 Sep 15 02:26	11°♊48'01	
	11507 Oct 20 05:38	0°♊			11508 Sep 24 08:57	0°♊	
desc. node	11507 Oct 22 19:46	3°♊05'53		evening max el	11508 Oct 05 19:49	15°♊47'11	21°56'05
evening max el	11507 Oct 25 07:14	5°♊40'59	23°36'05	desc. node	11508 Oct 08 17:06	18°♊18'46	
retrograde	11507 Nov 07 18:42	12°♊24'15		retrograde	11508 Oct 18 09:46	22°♊02'42	
evening set	11507 Nov 12 07:11	11°♊39'47		evening set	11508 Oct 21 11:31	21°♊41'32	
min. Earth dist.	11507 Nov 18 17:21	8°♊35'54	0.55513 AU	inferior conj	11508 Oct 30 09:03	17°♊44'16	-5°29'36
inferior conj	11507 Nov 20 13:52	7°♊30'09	-5°48'58	minimum elong	11508 Oct 30 02:07	17°♊53'59	5°28'06
minimum elong	11507 Nov 20 15:16	7°♊28'05	5°48'17	min. Earth dist.	11508 Oct 30 00:06	17°♊56'48	0.54663 AU
morning rise	11507 Nov 29 01:09	3°♊36'48		morning rise	11508 Nov 07 18:03	13°♊57'07	

direct	11508 Nov 11 06:50	13° \mathbb{M} 29'43		retrograde	11509 Sep 28 21:35	1° \mathbb{M} 53'16	
morning max el	11508 Nov 23 11:10	19° \mathbb{M} 16'34	21°50'08	evening set	11509 Sep 30 23:59	1° \mathbb{M} 42'18	
asc. node	11508 Dec 02 06:58	0° \mathbb{X} 18'48			11509 Oct 05 23:44	30° \mathbb{R} $\underline{\mathbb{A}}$	
	11508 Dec 02 02:05	0° \mathbb{X}		inferior conj	11509 Oct 10 01:42	27° $\underline{\mathbb{A}}$ 46'03	-4°13'45
morning set	11508 Dec 14 08:38	22° \mathbb{X} 53'24		minimum elong	11509 Oct 09 15:46	28° $\underline{\mathbb{A}}$ 00'30	4°10'34
	11508 Dec 17 17:11	0° \mathbb{Z}		min. Earth dist.	11509 Oct 11 08:14	27° $\underline{\mathbb{A}}$ 01'38	0.54733 AU
				morning rise	11509 Oct 18 07:03	23° $\underline{\mathbb{A}}$ 44'31	
superior conj	11508 Dec 21 12:06	8° \mathbb{Z} 01'21	1°32'38	direct	11509 Oct 22 15:37	23° $\underline{\mathbb{A}}$ 03'38	
minimum elong	11508 Dec 21 13:45	8° \mathbb{Z} 10'01	1°33'15	morning max el	11509 Nov 05 00:23	29° $\underline{\mathbb{A}}$ 33'18	23°36'14
max. Earth dist.	11508 Dec 25 14:38	16° \mathbb{Z} 29'13	1.34625 AU		11509 Nov 05 11:34	0° \mathbb{M}	
evening rise	11508 Dec 29 21:09	24° \mathbb{Z} 53'34		asc. node	11509 Nov 19 03:53	18° \mathbb{M} 41'22	
	11509 Jan 01 14:23	0° \approx			11509 Nov 25 03:42	0° \mathbb{X}	
desc. node	11509 Jan 04 15:28	5° \approx 29'49		morning set	11509 Nov 28 20:18	7° \mathbb{X} 40'41	
	11509 Jan 20 03:28	0° \mathbb{H}					
evening max el	11509 Feb 02 23:55	16° \mathbb{H} 40'08	26°49'19	superior conj	11509 Dec 05 17:41	22° \mathbb{X} 36'25	1°38'36
retrograde	11509 Feb 16 04:37	24° \mathbb{H} 02'50		minimum elong	11509 Dec 05 18:11	22° \mathbb{X} 39'05	1°39'19
evening set	11509 Feb 22 16:41	21° \mathbb{H} 29'33		max. Earth dist.	11509 Dec 08 10:50	28° \mathbb{X} 25'31	1.33103 AU
min. Earth dist.	11509 Feb 26 17:07	17° \mathbb{H} 30'11	0.65983 AU		11509 Dec 09 04:44	0° \mathbb{Z}	
asc. node	11509 Feb 28 05:19	15° \mathbb{H} 44'46		evening rise	11509 Dec 13 09:21	8° \mathbb{Z} 36'33	
inferior conj	11509 Feb 28 17:40	15° \mathbb{H} 08'34	0°10'02	desc. node	11509 Dec 22 12:25	25° \mathbb{Z} 39'25	
minimum elong	11509 Feb 28 17:23	15° \mathbb{H} 09'23	0°10'10		11509 Dec 25 01:41	0° \approx	
transit middle	11509 Feb 28 17:23	15° \mathbb{H} 09'23	0°10'10		11510 Jan 16 10:21	0° \mathbb{H}	
transit begin	11509 Feb 28 15:06	15° \mathbb{H} 16'04		evening max el	11510 Jan 16 12:49	0° \mathbb{H} 05'54	27°24'14
transit end	11509 Feb 28 19:40	15° \mathbb{H} 02'43		retrograde	11510 Jan 30 03:49	7° \mathbb{H} 30'27	
morning rise	11509 Mar 06 19:19	9° \mathbb{H} 31'08		evening set	11510 Feb 05 23:48	4° \mathbb{H} 59'19	
direct	11509 Mar 09 16:12	8° \mathbb{H} 45'50		min. Earth dist.	11510 Feb 09 19:45	1° \mathbb{H} 31'41	0.64335 AU
morning max el	11509 Mar 16 02:13	12° \mathbb{H} 09'30	18°12'47		11510 Feb 11 06:31	30° \mathbb{R} \approx	
	11509 Mar 28 21:59	0° \mathbb{Y}		inferior conj	11510 Feb 12 07:46	28° \approx 52'27	-0°55'07
desc. node	11509 Apr 02 16:36	7° \mathbb{Y} 39'20		minimum elong	11510 Feb 12 09:28	28° \approx 47'56	0°53'58
morning set	11509 Apr 04 05:39	10° \mathbb{Y} 08'26		asc. node	11510 Feb 15 02:39	26° \approx 04'17	
	11509 Apr 16 16:54	0° \mathbb{B}		morning rise	11510 Feb 18 21:03	23° \approx 28'44	
				direct	11510 Feb 21 09:24	22° \approx 56'30	
superior conj	11509 Apr 19 11:53	4° \mathbb{B} 22'58	-1°46'03	morning max el	11510 Feb 27 19:21	26° \approx 16'13	17°51'17
minimum elong	11509 Apr 19 02:31	3° \mathbb{B} 46'16	1°45'35		11510 Mar 03 01:00	0° \mathbb{H}	
max. Earth dist.	11509 Apr 21 07:18	7° \mathbb{B} 12'52	1.45691 AU	morning set	11510 Mar 16 20:12	21° \mathbb{H} 51'52	
evening rise	11509 May 05 13:18	29° \mathbb{B} 25'14		desc. node	11510 Mar 20 13:16	28° \mathbb{H} 05'16	
	11509 May 05 22:14	0° \mathbb{I}			11510 Mar 21 16:48	0° \mathbb{Y}	
greatest brilliancy	11509 May 17 01:48	17° \mathbb{I} 13'40	-0.7m				
	11509 May 26 03:09	0° \mathbb{G}		superior conj	11510 Mar 30 06:22	14° \mathbb{Y} 00'30	-1°08'54
asc. node	11509 May 27 02:56	1° \mathbb{G} 11'34		minimum elong	11510 Mar 29 23:03	13° \mathbb{Y} 31'04	1°08'02
evening max el	11509 May 29 03:51	3° \mathbb{G} 25'01	19°12'22	max. Earth dist.	11510 Apr 04 02:30	21° \mathbb{Y} 42'47	1.45132 AU
retrograde	11509 Jun 05 02:54	7° \mathbb{G} 18'30			11510 Apr 09 09:34	0° \mathbb{B}	
evening set	11509 Jun 08 15:31	6° \mathbb{G} 06'09		evening rise	11510 Apr 15 02:34	8° \mathbb{B} 48'20	
inferior conj	11509 Jun 14 02:09	0° \mathbb{G} 17'15	3°13'52		11510 Apr 29 04:35	0° \mathbb{I}	
minimum elong	11509 Jun 14 02:49	0° \mathbb{G} 15'04	3°13'06	greatest brilliancy	11510 Apr 30 04:13	1° \mathbb{I} 26'00	-0.6m
	11509 Jun 14 07:28	30° \mathbb{R} \mathbb{I}		evening max el	11510 May 12 07:47	17° \mathbb{I} 09'04	20°08'18
min. Earth dist.	11509 Jun 15 13:28	28° \mathbb{I} 22'54	0.66713 AU	asc. node	11510 May 14 00:07	18° \mathbb{I} 43'34	
morning rise	11509 Jun 19 13:35	23° \mathbb{I} 55'04		retrograde	11510 May 20 01:27	21° \mathbb{I} 35'53	
direct	11509 Jun 25 17:42	21° \mathbb{I} 13'39		evening set	11510 May 23 23:21	20° \mathbb{I} 07'26	
desc. node	11509 Jun 29 17:00	22° \mathbb{I} 09'08		inferior conj	11510 May 29 06:38	14° \mathbb{I} 05'17	3°14'58
morning max el	11509 Jul 08 09:27	28° \mathbb{I} 47'45	26°02'30	minimum elong	11510 May 29 06:13	14° \mathbb{I} 06'43	3°14'16
	11509 Jul 09 13:15	0° \mathbb{G}		min. Earth dist.	11510 May 30 03:37	12° \mathbb{I} 54'03	0.67855 AU
	11509 Jul 31 13:16	0° \mathbb{Q}		morning rise	11510 Jun 03 12:46	7° \mathbb{I} 45'18	
morning set	11509 Aug 13 09:51	22° \mathbb{Q} 04'43		direct	11510 Jun 09 05:36	5° \mathbb{I} 13'24	
max. Earth dist.	11509 Aug 17 05:19	29° \mathbb{Q} 16'36	1.35258 AU	desc. node	11510 Jun 16 14:03	8° \mathbb{I} 22'14	
	11509 Aug 17 14:18	0° \mathbb{P}		morning max el	11510 Jun 20 19:16	12° \mathbb{I} 09'58	24°39'25
					11510 Jul 05 02:55	0° \mathbb{G}	
superior conj	11509 Aug 22 16:55	10° \mathbb{P} 09'17	-0°04'02		11510 Jul 24 07:30	0° \mathbb{Q}	
minimum elong	11509 Aug 22 17:10	10° \mathbb{P} 10'33	0°04'18	morning set	11510 Jul 26 14:21	3° \mathbb{Q} 58'05	
behind sun begin	11509 Aug 22 11:17	9° \mathbb{P} 40'44		max. Earth dist.	11510 Jul 30 04:28	10° \mathbb{Q} 23'03	1.37373 AU
behind sun end	11509 Aug 22 23:02	10° \mathbb{P} 40'26					
asc. node	11509 Aug 23 02:54	11° \mathbb{P} 00'08		superior conj	11510 Aug 06 01:24	23° \mathbb{Q} 19'14	-0°36'50
evening rise	11509 Aug 30 10:34	26° \mathbb{P} 09'22		minimum elong	11510 Aug 06 03:50	23° \mathbb{Q} 31'04	0°36'52
	11509 Sep 01 07:33	0° $\underline{\mathbb{A}}$			11510 Aug 09 10:55	0° \mathbb{P}	
evening max el	11509 Sep 17 19:17	26° $\underline{\mathbb{A}}$ 22'44	20°28'43	asc. node	11510 Aug 09 23:40	1° \mathbb{P} 03'26	
	11509 Sep 22 09:10	0° \mathbb{M}		evening rise	11510 Aug 14 13:40	10° \mathbb{P} 14'11	
desc. node	11509 Sep 25 14:27	1° \mathbb{M} 24'42			11510 Aug 25 07:52	0° $\underline{\mathbb{A}}$	

evening max el	11510 Aug 31 08:49	7° Ω 45'06	19°21'21	retrograde	11511 Aug 22 09:25	23° Π 52'06	
retrograde	11510 Sep 09 18:27	12° Ω 25'56		evening set	11511 Aug 24 09:27	23° Π 37'47	
evening set	11510 Sep 11 14:40	12° Ω 15'55		desc. node	11511 Aug 30 09:10	20° Π 34'44	
desc. node	11510 Sep 12 11:48	12° Ω 04'24		inferior conj	11511 Sep 01 06:38	19° Π 10'13	-0°35'23
inferior conj	11510 Sep 20 06:03	8° Ω 07'56	-2°24'54	minimum elong	11511 Sep 01 05:14	19° Π 12'54	0°35'01
minimum elong	11510 Sep 19 23:40	8° Ω 18'22	2°22'27	min. Earth dist.	11511 Sep 04 12:12	16° Π 43'08	0.57466 AU
min. Earth dist.	11510 Sep 22 19:39	6° Ω 27'37	0.55732 AU	morning rise	11511 Sep 08 21:33	13° Π 59'48	
morning rise	11510 Sep 28 06:07	3° Ω 35'02		direct	11511 Sep 14 19:31	12° Π 32'19	
direct	11510 Oct 03 10:40	2° Ω 33'52		morning max el	11511 Sep 29 02:58	20° Π 03'40	26°48'03
morning max el	11510 Oct 17 11:20	9° Ω 38'41	25°21'27		11511 Oct 07 15:35	0° Ω	
	11510 Nov 01 17:52	0° Π		asc. node	11511 Oct 23 21:32	27° Ω 02'52	
asc. node	11510 Nov 06 00:44	7° Π 39'22			11511 Oct 25 08:57	0° Π	
morning set	11510 Nov 13 07:55	22° Π 24'52		morning set	11511 Oct 28 17:45	7° Π 00'25	
	11510 Nov 16 19:32	0° Σ					
				superior conj	11511 Nov 04 14:44	22° Π 06'34	1°32'07
superior conj	11510 Nov 20 03:17	7° Σ 20'35	1°38'18	minimum elong	11511 Nov 04 13:12	21° Π 58'04	1°32'30
minimum elong	11510 Nov 20 02:39	7° Σ 17'09	1°38'55	max. Earth dist.	11511 Nov 04 22:33	22° Π 50'04	1.31475 AU
max. Earth dist.	11510 Nov 21 14:24	10° Σ 33'49	1.32047 AU		11511 Nov 08 04:11	0° Σ	
evening rise	11510 Nov 27 06:52	22° Σ 43'16		evening rise	11511 Nov 11 10:59	7° Σ 05'25	
	11510 Nov 30 21:37	0° Ξ			11511 Nov 23 09:29	0° Ξ	
desc. node	11510 Dec 09 09:26	15° Ξ 27'39		desc. node	11511 Nov 26 06:31	4° Ξ 44'54	
	11510 Dec 18 21:11	0° \approx		evening max el	11511 Dec 12 04:41	25° Ξ 16'10	27°03'02
evening max el	11510 Dec 29 23:21	13° \approx 02'39	27°30'22		11511 Dec 18 06:35	0° \approx	
retrograde	11511 Jan 12 19:37	20° \approx 21'42		retrograde	11511 Dec 26 02:44	2° \approx 27'00	
evening set	11511 Jan 19 19:12	18° \approx 00'44		evening set	11512 Jan 01 23:22	0° \approx 24'48	
min. Earth dist.	11511 Jan 23 12:50	15° \approx 00'26	0.62408 AU		11512 Jan 02 15:44	30° \Re Ξ	
inferior conj	11511 Jan 26 10:40	12° \approx 15'11	-2°08'31	min. Earth dist.	11512 Jan 05 19:06	27° Ξ 43'46	0.60302 AU
minimum elong	11511 Jan 26 14:59	12° \approx 04'54	2°06'12	inferior conj	11512 Jan 08 22:54	25° Ξ 06'35	-3°26'31
asc. node	11511 Feb 01 23:53	7° \approx 20'42		minimum elong	11512 Jan 09 05:55	24° Ξ 51'57	3°23'23
morning rise	11511 Feb 02 13:17	7° \approx 08'08		morning rise	11512 Jan 16 15:15	20° Ξ 19'35	
direct	11511 Feb 04 19:19	6° \approx 45'06		direct	11512 Jan 18 17:56	20° Ξ 02'12	
morning max el	11511 Feb 11 12:45	10° \approx 10'43	17°47'24	asc. node	11512 Jan 19 21:05	20° Ξ 07'22	
	11511 Feb 24 18:07	0° \Re		morning max el	11512 Jan 26 03:00	23° Ξ 43'06	18°02'15
morning set	11511 Feb 27 10:18	4° \Re 42'52			11512 Jan 31 03:44	0° \approx	
desc. node	11511 Mar 07 09:56	18° \Re 39'54		morning set	11512 Feb 10 17:28	18° \approx 21'11	
					11512 Feb 17 01:13	0° \Re	
superior conj	11511 Mar 10 23:44	24° \Re 43'56	-0°27'04				
minimum elong	11511 Mar 10 21:05	24° \Re 32'48	0°26'32	superior conj	11512 Feb 20 17:34	6° \Re 36'09	0°11'58
	11511 Mar 14 03:47	0° Υ		minimum elong	11512 Feb 20 18:33	6° \Re 40'31	0°12'08
max. Earth dist.	11511 Mar 17 19:24	5° Υ 56'49	1.43902 AU	behind sun begin	11512 Feb 20 13:24	6° \Re 17'42	
evening rise	11511 Mar 25 15:56	18° Υ 20'46		behind sun end	11512 Feb 20 23:43	7° \Re 03'18	
	11511 Apr 02 07:47	0° Υ		desc. node	11512 Feb 22 06:37	9° \Re 19'01	
	11511 Apr 24 09:09	0° Π		max. Earth dist.	11512 Feb 28 08:17	19° \Re 40'31	1.42120 AU
evening max el	11511 Apr 25 06:04	0° Π 54'09	21°17'05	evening rise	11512 Mar 04 19:06	28° \Re 34'09	
asc. node	11511 Apr 30 21:19	5° Π 15'16			11512 Mar 05 16:39	0° Υ	
retrograde	11511 May 03 23:56	6° Π 01'33			11512 Mar 25 22:56	0° \Re	
evening set	11511 May 08 08:03	4° Π 17'05		evening max el	11512 Apr 06 23:30	14° \Re 40'42	22°34'32
	11511 May 12 04:33	30° \Re \Re		retrograde	11512 Apr 16 20:48	20° \Re 31'08	
inferior conj	11511 May 13 14:31	28° \Re 03'25	3°04'31	asc. node	11512 Apr 16 18:33	20° \Re 31'05	
minimum elong	11511 May 13 13:11	28° \Re 08'01	3°03'46	evening set	11512 Apr 21 15:58	18° \Re 31'28	
min. Earth dist.	11511 May 13 21:57	27° \Re 37'33	0.68533 AU	inferior conj	11512 Apr 26 23:45	12° \Re 08'35	2°43'46
morning rise	11511 May 18 18:07	21° \Re 47'52		minimum elong	11512 Apr 26 21:49	12° \Re 15'20	2°42'55
direct	11511 May 23 22:06	19° \Re 32'21		min. Earth dist.	11512 Apr 26 18:24	12° \Re 27'14	0.68745 AU
morning max el	11511 Jun 03 05:18	25° \Re 39'29	23°09'45	morning rise	11512 May 02 03:33	5° \Re 58'52	
desc. node	11511 Jun 03 11:01	25° \Re 54'01		direct	11512 May 06 18:10	4° \Re 03'43	
	11511 Jun 07 04:08	0° Π		morning max el	11512 May 15 18:45	9° \Re 18'42	21°42'36
	11511 Jun 28 15:06	0° Ξ		desc. node	11512 May 20 07:56	14° \Re 23'31	
morning set	11511 Jul 07 20:18	14° Ξ 48'43			11512 May 31 21:19	0° Π	
max. Earth dist.	11511 Jul 12 01:45	21° Ξ 59'05	1.39681 AU	morning set	11512 Jun 17 00:20	24° Π 29'47	
	11511 Jul 16 14:59	0° Ω			11512 Jun 20 10:26	0° Ξ	
				max. Earth dist.	11512 Jun 23 03:23	4° Ξ 26'27	1.41901 AU
superior conj	11511 Jul 19 19:11	5° Ω 46'32	-1°10'42				
minimum elong	11511 Jul 20 00:07	6° Ω 09'16	1°10'34	superior conj	11512 Jun 30 17:48	17° Ξ 21'13	-1°41'57
asc. node	11511 Jul 27 20:27	21° Ω 00'02		minimum elong	11512 Jul 01 00:26	17° Ξ 50'09	1°41'56
evening rise	11511 Jul 29 08:43	23° Ω 54'17			11512 Jul 07 20:00	0° Ω	
	11511 Aug 01 13:27	0° Π		evening rise	11512 Jul 11 15:59	7° Ω 00'32	
evening max el	11511 Aug 14 10:09	19° Π 52'06	18°35'22	asc. node	11512 Jul 13 17:17	10° Ω 46'06	

	11512 Jul 25 12:00	0°♍				11513 Jun 30 10:20	0°♊		
evening max el	11512 Jul 27 19:25	2°♍35'38	18°10'02	asc. node		11513 Jun 30 14:11	0°♊16'21		
retrograde	11512 Aug 03 19:17	6°♍08'54		evening max el		11513 Jul 11 08:39	15°♊45'27	18°04'09	
evening set	11512 Aug 06 02:30	5°♍46'19		retrograde		11513 Jul 17 20:05	19°♊06'40		
inferior conj	11512 Aug 13 04:52	0°♍58'05	0°54'52	evening set		11513 Jul 20 11:18	18°♊32'35		
minimum elong	11512 Aug 13 06:34	0°♍54'17	0°53'51	inferior conj		11513 Jul 26 21:42	13°♊25'16	2°00'28	
	11512 Aug 14 06:44	30°♋♊		minimum elong		11513 Jul 27 00:23	13°♊18'25	1°59'07	
desc. node	11512 Aug 16 06:31	28°♊14'29		min. Earth dist.		11513 Jul 29 21:22	10°♊23'14	0.61907 AU	
min. Earth dist.	11512 Aug 16 12:16	28°♊02'16	0.59627 AU	morning rise		11513 Aug 02 11:07	7°♊20'12		
morning rise	11512 Aug 20 07:25	25°♊15'05		desc. node		11513 Aug 03 03:51	6°♊52'12		
direct	11512 Aug 26 17:46	23°♊18'52		direct		11513 Aug 09 03:23	4°♊58'49		
	11512 Sep 08 20:55	0°♍		morning max el		11513 Aug 23 07:38	13°♊00'32	27°57'33	
morning max el	11512 Sep 10 02:07	1°♍09'38	27°42'04			11513 Sep 05 21:16	0°♍		
	11512 Sep 30 21:27	0°♌				11513 Sep 23 07:57	0°♌		
asc. node	11512 Oct 09 18:17	16°♌44'53		morning set		11513 Sep 26 00:54	5°♌26'34		
morning set	11512 Oct 12 00:05	21°♌22'54		asc. node		11513 Sep 26 15:01	6°♌39'10		
	11512 Oct 16 00:17	0°♌		max. Earth dist.		11513 Oct 01 13:39	17°♌09'13	1.31812 AU	
max. Earth dist.	11512 Oct 18 07:37	5°♌05'37	1.31394 AU						
				superior conj		11513 Oct 03 12:00	21°♌22'47	1°03'06	
superior conj	11512 Oct 19 02:15	6°♌49'13	1°20'18	minimum elong		11513 Oct 03 09:46	21°♌10'30	1°02'56	
minimum elong	11512 Oct 19 00:09	6°♌37'31	1°20'25			11513 Oct 07 09:48	0°♌		
evening rise	11512 Oct 25 19:26	21°♌37'15		evening rise		11513 Oct 10 06:15	6°♌12'57		
	11512 Oct 29 19:47	0°♌				11513 Oct 22 14:10	0°♌		
desc. node	11512 Nov 12 03:40	23°♌19'18		desc. node		11513 Oct 30 00:55	10°♌54'22		
	11512 Nov 17 01:41	0°♌		evening max el		11513 Nov 04 15:46	17°♌10'50	24°33'41	
evening max el	11512 Nov 23 02:11	6°♌37'41	26°01'50	retrograde		11513 Nov 18 09:56	24°♌04'09		
retrograde	11512 Dec 07 00:03	13°♌40'44		evening set		11513 Nov 23 17:07	23°♌01'52		
evening set	11512 Dec 13 08:02	12°♌05'43		min. Earth dist.		11513 Nov 29 03:12	20°♌13'31	0.56334 AU	
min. Earth dist.	11512 Dec 17 15:01	9°♌30'13	0.58193 AU	inferior conj		11513 Dec 01 14:38	18°♌39'50	-5°35'07	
inferior conj	11512 Dec 20 16:58	7°♌17'04	-4°40'36	minimum elong		11513 Dec 01 20:06	18°♌31'13	5°33'45	
minimum elong	11512 Dec 21 01:14	7°♌02'08	4°37'45	morning rise		11513 Dec 10 01:14	14°♌36'44		
morning rise	11512 Dec 28 21:04	2°♌52'35		direct		11513 Dec 12 12:28	14°♌20'16		
direct	11512 Dec 31 00:48	2°♌37'28		morning max el		11513 Dec 22 07:07	19°♌00'48	19°34'41	
asc. node	11513 Jan 05 18:15	4°♌31'32		asc. node		11513 Dec 23 15:22	20°♌23'16		
morning max el	11513 Jan 08 10:25	6°♌43'19	18°37'24			11513 Dec 30 13:54	0°♌		
	11513 Jan 23 05:13	0°♌		morning set		11514 Jan 08 15:35	17°♌01'47		
morning set	11513 Jan 24 12:30	2°♌31'05				11514 Jan 15 02:12	0°♌		
				superior conj		11514 Jan 16 14:42	3°♌00'23	1°09'05	
superior conj	11513 Feb 02 08:08	19°♌26'05	0°44'24	minimum elong		11514 Jan 16 17:37	3°♌14'45	1°09'22	
minimum elong	11513 Feb 02 10:51	19°♌38'44	0°44'31	max. Earth dist.		11514 Jan 22 22:14	15°♌02'29	1.37767 AU	
desc. node	11513 Feb 08 03:17	29°♌59'00		desc. node		11514 Jan 26 00:02	20°♌36'35		
	11513 Feb 08 03:31	0°♌		evening rise		11514 Jan 26 15:38	21°♌45'39		
max. Earth dist.	11513 Feb 09 16:18	2°♌41'31	1.39991 AU			11514 Jan 31 10:43	0°♌		
evening rise	11513 Feb 13 18:49	9°♌42'20				11514 Feb 20 13:05	0°♌		
	11513 Feb 26 15:07	0°♌		evening max el		11514 Mar 03 03:16	12°♌20'15	25°12'20	
evening max el	11513 Mar 20 13:50	28°♌29'13	23°55'10	retrograde		11514 Mar 15 04:37	19°♌19'41		
	11513 Mar 22 03:52	0°♌		evening set		11514 Mar 20 23:18	16°♌55'42		
retrograde	11513 Mar 31 14:44	4°♌59'01		asc. node		11514 Mar 21 13:12	16°♌24'50		
asc. node	11513 Apr 03 15:51	4°♌15'57		min. Earth dist.		11514 Mar 25 09:11	12°♌01'58	0.67844 AU	
evening set	11513 Apr 05 21:34	2°♌45'50		inferior conj		11514 Mar 26 14:47	10°♌25'29	1°33'08	
	11513 Apr 08 12:46	30°♋♌		minimum elong		11514 Mar 26 12:51	10°♌31'47	1°32'24	
min. Earth dist.	11513 Apr 10 14:51	27°♌17'00	0.68508 AU	morning rise		11514 Apr 01 02:46	4°♌30'54		
inferior conj	11513 Apr 11 08:28	26°♌17'03	2°13'16	direct		11514 Apr 04 16:14	3°♌17'59		
minimum elong	11513 Apr 11 06:17	26°♌24'28	2°12'23	morning max el		11514 Apr 11 18:05	7°♌11'36	19°20'48	
morning rise	11513 Apr 16 15:03	20°♌14'14		desc. node		11514 Apr 24 01:30	23°♌16'22		
direct	11513 Apr 20 16:38	18°♌40'40		greatest brilliancy		11514 Apr 24 12:38	23°♌57'35	-0.7m	
morning max el	11513 Apr 28 14:34	23°♌09'27	20°24'48			11514 Apr 28 13:14	0°♌		
	11513 May 04 12:06	0°♌		morning set		11514 May 06 06:40	11°♌49'25		
desc. node	11513 May 07 04:45	3°♌34'40				11514 May 17 23:15	0°♌		
	11513 May 25 03:53	0°♌		max. Earth dist.		11514 May 19 01:38	1°♌43'45	1.45077 AU	
morning set	11513 May 27 06:06	3°♌13'24							
max. Earth dist.	11513 Jun 05 11:25	17°♌44'28	1.43769 AU	superior conj		11514 May 22 17:15	7°♌30'24	-2°13'15	
				minimum elong		11514 May 22 16:45	7°♌28'25	2°13'54	
superior conj	11513 Jun 11 17:14	27°♌54'46	-2°05'04			11514 Jun 05 13:26	0°♌		
minimum elong	11513 Jun 11 22:37	28°♌17'04	2°05'30	evening rise		11514 Jun 06 00:19	0°♌45'07		
	11513 Jun 12 23:24	0°♌		asc. node		11514 Jun 17 11:10	19°♌25'11		
evening rise	11513 Jun 24 06:48	19°♌20'54							

evening max el	11514 Jun 24 22:32	29°☿13'36	18°16'49			11515 May 10 16:14	0°♊	
	11514 Jun 25 18:15	0°♊			evening rise	11515 May 17 17:36	11°♊09'07	
retrograde	11514 Jul 01 07:25	2°♊36'44			greatest brilliancy	11515 May 26 06:34	24°♊40'23	-0.8m
evening set	11514 Jul 04 06:48	1°♊48'45				11515 May 29 17:15	0°☿	
	11514 Jul 06 18:51	30°♋☿			asc. node	11515 Jun 04 08:15	8°☿04'52	
inferior conj	11514 Jul 10 05:05	26°☿24'09	2°43'16		evening max el	11515 Jun 08 10:07	12°☿52'24	18°47'17
minimum elong	11514 Jul 10 07:24	26°☿17'33	2°42'06		retrograde	11515 Jun 15 01:31	16°☿30'57	
min. Earth dist.	11514 Jul 12 15:49	23°☿37'02	0.64047 AU		evening set	11515 Jun 18 09:15	15°☿27'34	
morning rise	11514 Jul 16 06:34	20°☿07'09			inferior conj	11515 Jun 23 23:09	9°☿47'06	3°07'11
desc. node	11514 Jul 21 01:08	17°☿41'36			minimum elong	11515 Jun 24 00:29	9°☿42'59	3°06'18
direct	11514 Jul 22 22:14	17°☿29'32			min. Earth dist.	11515 Jun 25 19:00	7°☿30'45	0.65861 AU
morning max el	11514 Aug 05 17:03	25°☿30'55	27°35'51		morning rise	11515 Jun 29 14:58	3°☿25'36	
	11514 Aug 09 19:43	0°♋			direct	11515 Jul 06 00:31	0°☿42'42	
	11514 Aug 30 09:50	0°♌			desc. node	11515 Jul 07 22:19	0°☿55'28	
morning set	11514 Sep 09 17:48	19°♌05'09			morning max el	11515 Jul 19 03:51	8°☿30'20	26°43'20
asc. node	11514 Sep 13 11:44	26°♌41'06				11515 Aug 04 22:31	0°♋	
max. Earth dist.	11514 Sep 14 12:53	28°♌52'08	1.32754 AU			11515 Aug 22 19:55	0°♌	
	11514 Sep 15 01:49	0°♍			morning set	11515 Aug 23 23:47	2°♌11'23	
					max. Earth dist.	11515 Aug 28 02:38	10°♌12'30	1.34211 AU
superior conj	11514 Sep 17 17:59	5°♍41'43	0°40'42		asc. node	11515 Aug 31 08:28	16°♌46'53	
minimum elong	11514 Sep 17 16:11	5°♍32'01	0°40'22					
evening rise	11514 Sep 24 17:35	20°♍47'25			superior conj	11515 Sep 01 17:57	19°♌40'12	0°13'32
	11514 Sep 29 04:03	0°♎			minimum elong	11515 Sep 01 17:14	19°♌36'30	0°13'12
desc. node	11514 Oct 16 22:14	27°♎07'12			behind sun begin	11515 Sep 01 13:55	19°♌19'12	
evening max el	11514 Oct 17 02:17	27°♎17'07	22°52'55		behind sun end	11515 Sep 01 20:34	19°♌53'50	
	11514 Oct 20 05:36	0°♏				11515 Sep 06 15:38	0°♍	
retrograde	11514 Oct 30 06:45	3°♏50'34			evening rise	11515 Sep 09 03:31	5°♍15'52	
evening set	11514 Nov 03 03:47	3°♏17'51				11515 Sep 22 14:43	0°♎	
	11514 Nov 10 09:57	30°♏♎			evening max el	11515 Sep 28 18:48	7°♎32'58	21°16'47
min. Earth dist.	11514 Nov 10 11:02	29°♎58'28	0.55040 AU		desc. node	11515 Oct 03 19:35	11°♎30'13	
inferior conj	11514 Nov 11 17:23	29°♎15'01	-5°48'08		retrograde	11515 Oct 10 18:33	13°♎30'17	
minimum elong	11514 Nov 11 15:06	29°♎18'18	5°47'25		evening set	11515 Oct 13 08:29	13°♎14'51	
morning rise	11514 Nov 20 03:59	25°♎26'03			inferior conj	11515 Oct 22 09:41	9°♎19'55	-5°03'29
direct	11514 Nov 23 06:13	25°♎03'47			minimum elong	11515 Oct 22 00:29	9°♎32'49	5°01'06
	11514 Dec 04 02:49	0°♏			min. Earth dist.	11515 Oct 22 17:53	9°♎08'24	0.54576 AU
morning max el	11514 Dec 04 14:03	0°♏26'01	20°54'50		morning rise	11515 Oct 30 17:11	5°♎29'30	
asc. node	11514 Dec 10 12:25	7°♏25'36			direct	11515 Nov 03 14:37	4°♎56'53	
	11514 Dec 23 03:36	0°♐			morning max el	11515 Nov 16 08:01	11°♎02'08	22°34'17
morning set	11514 Dec 23 23:44	1°♐43'56			asc. node	11515 Nov 27 09:23	25°♎22'55	
						11515 Nov 30 02:01	0°♏	
superior conj	11514 Dec 31 08:48	17°♐05'42	1°26'06		morning set	11515 Dec 08 10:41	16°♏31'10	
minimum elong	11514 Dec 31 11:03	17°♐17'14	1°26'37			11515 Dec 14 17:43	0°♐	
max. Earth dist.	11515 Jan 05 07:11	26°♐59'51	1.35687 AU					
	11515 Jan 06 20:23	0°♑			superior conj	11515 Dec 15 11:01	1°♐32'14	1°35'57
evening rise	11515 Jan 09 06:35	4°♑34'59			minimum elong	11515 Dec 15 12:11	1°♐38'27	1°36'38
desc. node	11515 Jan 12 20:51	11°♑07'07			max. Earth dist.	11515 Dec 18 23:04	8°♐53'23	1.33928 AU
	11515 Jan 24 07:56	0°♒			evening rise	11515 Dec 23 12:01	18°♐00'52	
evening max el	11515 Feb 13 16:55	26°♒08'58	26°18'50			11515 Dec 29 22:16	0°♑	
	11515 Feb 18 04:09	0°♓			desc. node	11515 Dec 30 17:45	1°♑26'05	
retrograde	11515 Feb 26 13:18	3°♓25'52				11516 Jan 18 14:05	0°♒	
evening set	11515 Mar 04 19:23	0°♓54'47			evening max el	11516 Jan 27 06:29	9°♒46'33	27°07'16
	11515 Mar 05 20:15	30°♒♒			retrograde	11516 Feb 09 15:58	17°♒10'10	
asc. node	11515 Mar 08 10:34	27°♒13'01			evening set	11516 Feb 16 07:52	14°♒37'08	
min. Earth dist.	11515 Mar 08 23:06	26°♒35'42	0.66777 AU		min. Earth dist.	11516 Feb 20 06:20	10°♒51'36	0.65330 AU
inferior conj	11515 Mar 10 16:40	24°♒28'44	0°43'14		inferior conj	11516 Feb 22 11:48	8°♒21'33	-0°16'28
minimum elong	11515 Mar 10 15:35	24°♒32'04	0°42'57		minimum elong	11516 Feb 22 12:16	8°♒20'13	0°15'56
morning rise	11515 Mar 16 12:36	18°♒44'10			transit middle	11516 Feb 22 12:16	8°♒20'13	0°15'56
direct	11515 Mar 19 15:11	17°♒49'35			transit begin	11516 Feb 22 11:58	8°♒21'05	
morning max el	11515 Mar 26 04:38	21°♒20'35	18°32'44		transit end	11516 Feb 22 12:34	8°♒19'22	
	11515 Apr 02 03:36	0°♓			asc. node	11516 Feb 23 07:54	7°♒25'29	
desc. node	11515 Apr 10 22:11	13°♓19'50			morning rise	11516 Feb 28 18:08	2°♒49'29	
morning set	11515 Apr 16 00:37	21°♓21'12			direct	11516 Mar 02 11:18	2°♒10'02	
	11515 Apr 21 12:32	0°♈			morning max el	11516 Mar 08 20:09	5°♒30'24	18°01'29
						11516 Mar 25 13:19	0°♓	
superior conj	11515 May 02 01:42	16°♈30'40	-2°01'33		morning set	11516 Mar 26 23:04	2°♓18'15	
minimum elong	11515 May 01 18:05	16°♈00'55	2°01'35		desc. node	11516 Mar 27 18:50	3°♓39'08	
max. Earth dist.	11515 May 01 20:14	16°♈09'18	1.45688 AU					

superior conj	11516 Apr 10 11:26	25° Υ 41'13	-1°31'27	desc. node	11517 Mar 14 15:29	24° X 09'35	
minimum elong	11516 Apr 10 02:17	25° Υ 05'05	1°30'42		11517 Mar 18 03:03	0° Υ	
	11516 Apr 13 05:11	0° B					
max. Earth dist.	11516 Apr 13 16:30	0° B 44'24	1.45550 AU	superior conj	11517 Mar 21 15:00	5° Υ 45'54	-0°51'12
evening rise	11516 Apr 26 14:02	20° B 46'06		minimum elong	11517 Mar 21 09:37	5° Υ 23'56	0°50'26
	11516 May 02 14:12	0° II		max. Earth dist.	11517 Mar 27 11:20	15° Υ 11'12	1.44683 AU
greatest brilliancy	11516 May 09 23:51	11° II 11'01	-0.7m		11517 Apr 05 23:05	0° B	
asc. node	11516 May 21 05:23	26° II 05'06		evening rise	11517 Apr 06 01:27	0° B 09'02	
evening max el	11516 May 21 17:12	26° II 35'27	19°34'23		11517 Apr 26 07:42	0° II	
	11516 May 26 03:57	0° B		evening max el	11517 May 04 18:38	10° II 20'13	20°36'07
retrograde	11516 May 28 23:12	0° B 41'43		asc. node	11517 May 08 02:34	13° II 13'57	
	11516 May 31 15:28	30° R II		retrograde	11517 May 12 22:05	15° II 04'01	
evening set	11516 Jun 01 15:46	29° II 22'18		evening set	11517 May 17 00:13	13° II 28'36	
inferior conj	11516 Jun 07 00:37	23° II 27'27	3°15'50	inferior conj	11517 May 22 06:50	7° II 21'01	3°11'51
minimum elong	11516 Jun 07 00:49	23° II 26'48	3°15'07	minimum elong	11517 May 22 06:00	7° II 23'54	3°11'09
min. Earth dist.	11516 Jun 08 05:38	21° II 51'15	0.67257 AU	min. Earth dist.	11517 May 22 21:52	6° II 29'15	0.68198 AU
morning rise	11516 Jun 12 09:28	17° II 06'02		morning rise	11517 May 27 11:33	1° II 02'37	
direct	11516 Jun 18 09:00	14° II 27'59			11517 May 28 19:11	30° R B	
desc. node	11516 Jun 23 19:26	16° II 11'36		direct	11517 Jun 01 22:54	28° B 37'17	
morning max el	11516 Jun 30 14:17	21° II 47'15	25°28'37		11517 Jun 06 13:19	0° II	
	11516 Jul 07 17:57	0° B		desc. node	11517 Jun 10 16:26	3° II 01'45	
	11516 Jul 28 04:26	0° Ω		morning max el	11517 Jun 13 00:11	5° II 14'11	24°01'31
morning set	11516 Aug 05 14:51	14° Ω 34'30			11517 Jul 02 02:37	0° B	
max. Earth dist.	11516 Aug 09 06:34	21° Ω 19'12	1.36124 AU	morning set	11517 Jul 18 10:23	26° B 03'13	
	11516 Aug 13 18:41	0° B			11517 Jul 20 16:58	0° Ω	
				max. Earth dist.	11517 Jul 22 04:13	2° Ω 35'39	1.38349 AU
superior conj	11516 Aug 15 08:59	3° B 09'53	-0°17'39	superior conj	11517 Jul 29 11:41	16° Ω 02'49	-0°51'15
minimum elong	11516 Aug 15 10:05	3° B 15'25	0°17'50	minimum elong	11517 Jul 29 15:11	16° Ω 19'29	0°51'12
asc. node	11516 Aug 17 05:10	6° B 52'00		asc. node	11517 Aug 04 01:56	26° Ω 53'04	
evening rise	11516 Aug 23 09:48	19° B 31'14			11517 Aug 05 15:53	0° B	
	11516 Aug 28 16:36	0° Ω		evening rise	11517 Aug 07 09:53	3° B 26'53	
evening max el	11516 Sep 10 00:05	18° Ω 26'53	19°57'21		11517 Aug 23 15:28	0° Ω	
desc. node	11516 Sep 19 16:58	23° Ω 35'07		evening max el	11517 Aug 23 18:58	0° Ω 08'47	18°59'08
retrograde	11516 Sep 20 08:51	23° Ω 36'20		retrograde	11517 Sep 01 13:05	4° Ω 31'05	
evening set	11516 Sep 22 06:56	23° Ω 26'30		evening set	11517 Sep 03 09:58	4° Ω 19'54	
inferior conj	11516 Oct 01 05:41	19° Ω 26'10	-3°29'32	desc. node	11517 Sep 06 14:20	3° Ω 14'22	
minimum elong	11516 Sep 30 20:43	19° Ω 39'45	3°26'20	inferior conj	11517 Sep 11 18:04	0° Ω 04'04	-1°36'56
min. Earth dist.	11516 Oct 03 02:49	18° Ω 17'45	0.55053 AU	minimum elong	11517 Sep 11 13:55	0° Ω 11'20	1°35'21
morning rise	11516 Oct 09 09:11	15° Ω 13'05			11517 Sep 11 20:24	30° R B	
direct	11516 Oct 14 02:13	14° Ω 24'43		min. Earth dist.	11517 Sep 14 16:21	28° B 01'59	0.56395 AU
morning max el	11516 Oct 27 19:15	21° Ω 09'44	24°22'17	morning rise	11517 Sep 19 14:41	25° B 14'43	
	11516 Nov 04 10:24	0° B		direct	11517 Sep 25 02:52	24° B 03'03	
asc. node	11516 Nov 13 06:15	14° B 01'34			11517 Oct 07 20:35	0° Ω	
	11516 Nov 21 07:57	0° X		morning max el	11517 Oct 09 07:47	1° Ω 20'50	26°01'36
morning set	11516 Nov 21 22:31	1° X 17'36			11517 Oct 29 10:37	0° B	
superior conj	11516 Nov 28 18:33	16° X 11'38	1°39'13	asc. node	11517 Oct 31 03:03	3° B 11'12	
minimum elong	11516 Nov 28 18:33	16° X 11'40	1°39'54	morning set	11517 Nov 06 09:33	15° B 58'39	
max. Earth dist.	11516 Nov 30 22:43	20° X 54'47	1.32593 AU		11517 Nov 12 18:49	0° X	
	11516 Dec 05 06:06	0° B		superior conj	11517 Nov 13 05:09	0° X 57'18	1°36'22
evening rise	11516 Dec 06 04:28	1° B 54'16		minimum elong	11517 Nov 13 04:06	0° X 51'32	1°36'55
desc. node	11516 Dec 16 14:44	21° B 27'31		max. Earth dist.	11517 Nov 14 04:26	3° X 06'19	1.31737 AU
	11516 Dec 21 19:40	0° \approx		evening rise	11517 Nov 20 05:03	16° X 08'01	
evening max el	11517 Jan 08 18:33	23° \approx 01'04	27°30'39		11517 Nov 27 04:53	0° B	
	11517 Jan 19 14:12	0° X		desc. node	11517 Dec 03 11:47	11° B 03'47	
retrograde	11517 Jan 22 11:59	0° X 23'47			11517 Dec 16 19:26	0° \approx	
	11517 Jan 25 07:17	30° R \approx		evening max el	11517 Dec 22 02:56	5° \approx 39'53	27°23'00
evening set	11517 Jan 29 10:22	27° \approx 55'39		retrograde	11518 Jan 05 00:29	12° \approx 56'35	
min. Earth dist.	11517 Feb 02 04:53	24° \approx 40'45	0.63546 AU	evening set	11518 Jan 11 23:47	10° \approx 42'13	
inferior conj	11517 Feb 04 21:29	21° \approx 57'18	-1°25'24	min. Earth dist.	11518 Jan 15 17:22	7° \approx 51'35	0.61515 AU
minimum elong	11517 Feb 05 00:15	21° \approx 50'18	1°23'45	inferior conj	11518 Jan 18 18:32	5° \approx 07'31	-2°41'29
asc. node	11517 Feb 09 05:10	18° \approx 03'06		minimum elong	11518 Jan 19 00:04	4° \approx 55'05	2°38'44
morning rise	11517 Feb 11 16:19	16° \approx 40'33		morning rise	11518 Jan 26 03:06	0° \approx 09'00	
direct	11517 Feb 14 01:45	16° \approx 12'39			11518 Jan 26 16:38	30° R B	
morning max el	11517 Feb 20 13:49	19° \approx 33'24	17°47'31	asc. node	11518 Jan 27 02:25	29° B 55'07	
	11517 Feb 28 08:49	0° X		direct	11518 Jan 28 07:10	29° B 48'55	
morning set	11517 Mar 09 00:27	14° X 33'18					

	11518 Jan 29 21:12	0°♊		morning rise	11519 Jan 08 21:16	13°♊05'42	
morning max el	11518 Feb 04 06:22	3°♊20'00	17°51'27	direct	11519 Jan 10 23:35	12°♊49'47	
morning set	11518 Feb 19 22:31	27°♊46'25		asc. node	11519 Jan 13 23:36	13°♊24'03	
	11518 Feb 21 04:08	0°♋		morning max el	11519 Jan 18 18:14	16°♊40'39	18°14'36
desc. node	11518 Mar 01 12:07	14°♋46'34		morning set	11519 Jan 28 03:12	0°♊	
					11519 Feb 03 11:19	11°♊40'13	
superior conj	11518 Mar 02 19:02	16°♋59'46	-0°09'54				
minimum elong	11518 Mar 02 18:09	16°♋55'58	0°09'32	superior conj	11519 Feb 12 22:16	29°♊18'15	0°26'37
behind sun begin	11518 Mar 02 11:17	16°♋26'28		minimum elong	11519 Feb 13 00:13	29°♊27'03	0°26'44
behind sun end	11518 Mar 03 01:01	17°♋25'25			11519 Feb 13 07:30	0°♋	
max. Earth dist.	11518 Mar 10 02:10	29°♋12'14	1.43190 AU	desc. node	11519 Feb 16 08:49	5°♋26'42	
	11518 Mar 10 13:53	0°♌		max. Earth dist.	11519 Feb 20 12:32	12°♋37'20	1.41242 AU
evening rise	11518 Mar 16 19:17	9°♌55'45		evening rise	11519 Feb 25 06:53	20°♋32'23	
	11518 Mar 30 02:19	0°♍			11519 Mar 03 05:41	0°♌	
evening max el	11518 Apr 17 14:35	24°♍05'46	21°49'14		11519 Mar 24 08:24	0°♍	
asc. node	11518 Apr 24 23:49	29°♍15'45		evening max el	11519 Mar 31 06:35	7°♍53'39	23°08'53
retrograde	11518 Apr 26 20:10	29°♍32'08		retrograde	11519 Apr 10 15:54	14°♍01'29	
evening set	11518 May 01 08:46	27°♍41'15		asc. node	11519 Apr 11 21:06	13°♍54'29	
inferior conj	11518 May 06 15:33	21°♍23'10	2°56'57	evening set	11519 Apr 15 15:53	11°♍56'06	
minimum elong	11518 May 06 13:56	21°♍28'51	2°56'09	min. Earth dist.	11519 Apr 20 14:17	6°♍06'47	0.68700 AU
min. Earth dist.	11518 May 06 17:30	21°♍16'23	0.68677 AU	inferior conj	11519 Apr 21 00:49	5°♍30'24	2°32'02
morning rise	11518 May 11 18:53	15°♍09'41		minimum elong	11519 Apr 20 22:43	5°♍37'37	2°31'09
direct	11518 May 16 17:08	13°♍02'28			11519 Apr 25 12:45	30°♌♌	
morning max el	11518 May 26 11:16	18°♍47'52	22°31'50	morning rise	11519 Apr 26 05:28	29°♌23'17	
desc. node	11518 May 28 13:22	21°♍00'32		direct	11519 Apr 30 14:32	27°♌37'03	
	11518 Jun 04 20:24	0°♎			11519 May 06 06:49	0°♍	
	11518 Jun 25 05:49	0°♏		morning max el	11519 May 09 02:58	2°♍31'13	21°07'57
morning set	11518 Jun 29 05:31	6°♏25'03		desc. node	11519 May 15 10:14	9°♍49'21	
max. Earth dist.	11518 Jul 04 02:10	14°♏29'47	1.40653 AU		11519 May 29 17:39	0°♎	
				morning set	11519 Jun 08 22:53	15°♎37'59	
superior conj	11518 Jul 11 21:52	28°♏09'10	-1°24'35	max. Earth dist.	11519 Jun 16 06:17	27°♎19'10	1.42758 AU
minimum elong	11518 Jul 12 03:44	28°♏35'32	1°24'27		11519 Jun 17 21:32	0°♏	
	11518 Jul 12 22:25	0°♐					
asc. node	11518 Jul 21 22:45	16°♐04'59		superior conj	11519 Jun 23 11:05	9°♏19'11	-1°53'09
evening rise	11518 Jul 22 00:26	16°♐53'57		minimum elong	11519 Jun 23 17:42	9°♏47'22	1°53'18
	11518 Jul 29 03:47	0°♑		evening rise	11519 Jul 05 01:19	29°♏42'08	
evening max el	11518 Aug 07 00:14	12°♑33'10	18°22'10		11519 Jul 05 05:18	0°♐	
retrograde	11518 Aug 14 12:11	16°♑19'44		asc. node	11519 Jul 08 19:37	6°♐26'11	
evening set	11518 Aug 16 15:02	16°♑02'25		evening max el	11519 Jul 21 11:45	25°♐29'46	18°05'14
inferior conj	11518 Aug 24 04:04	11°♑26'21	0°05'51	retrograde	11519 Jul 28 04:48	28°♐55'43	
minimum elong	11518 Aug 24 04:16	11°♑25'57	0°05'29	evening set	11519 Jul 30 15:33	28°♐28'28	
transit middle	11518 Aug 24 04:16	11°♑25'57	0°05'29	inferior conj	11519 Aug 06 10:40	23°♐31'56	1°25'43
transit begin	11518 Aug 24 00:57	11°♑32'42		minimum elong	11519 Aug 06 13:01	23°♐26'23	1°24'27
transit end	11518 Aug 24 07:34	11°♑19'11		min. Earth dist.	11519 Aug 09 15:44	20°♐30'47	0.60606 AU
desc. node	11518 Aug 24 11:41	11°♑10'45		desc. node	11519 Aug 11 09:03	19°♐02'47	
min. Earth dist.	11518 Aug 27 12:07	8°♑44'06	0.58354 AU	morning rise	11519 Aug 13 07:39	17°♐38'33	
morning rise	11518 Aug 31 13:58	6°♑00'57		direct	11519 Aug 19 21:33	15°♐30'46	
direct	11518 Sep 06 18:07	4°♑20'46		morning max el	11519 Sep 03 04:21	23°♐26'39	27°53'24
morning max el	11518 Sep 21 02:28	12°♑01'57	27°15'28		11519 Sep 09 01:20	0°♑	
	11518 Oct 05 04:36	0°♒			11519 Sep 28 10:31	0°♒	
asc. node	11518 Oct 17 23:50	22°♒43'40		asc. node	11519 Oct 04 20:34	12°♒31'40	
morning set	11518 Oct 21 18:08	0°♓29'43		morning set	11519 Oct 05 22:22	14°♒44'58	
	11518 Oct 21 12:31	0°♓		max. Earth dist.	11519 Oct 11 21:34	27°♒35'24	1.31512 AU
					11519 Oct 12 23:43	0°♓	
superior conj	11518 Oct 28 16:54	15°♓43'22	1°27'46				
minimum elong	11518 Oct 28 15:05	15°♓33'14	1°28'04	superior conj	11519 Oct 13 03:54	0°♓23'09	1°13'39
max. Earth dist.	11518 Oct 28 13:17	15°♓23'15	1.31374 AU	minimum elong	11519 Oct 13 01:41	0°♓10'51	1°13'39
evening rise	11518 Nov 04 11:18	0°♈35'43		evening rise	11519 Oct 19 21:01	15°♓10'23	
	11518 Nov 04 04:37	0°♈			11519 Oct 27 03:58	0°♈	
desc. node	11518 Nov 20 08:55	0°♈05'01		desc. node	11519 Nov 07 06:08	18°♈16'45	
	11518 Nov 20 07:37	0°♉		evening max el	11519 Nov 15 23:29	28°♈33'31	25°27'01
evening max el	11518 Dec 04 05:18	17°♉32'53	26°41'04		11519 Nov 17 13:44	0°♉	
retrograde	11518 Dec 18 04:00	24°♉40'44		retrograde	11519 Nov 29 20:17	5°♉32'05	
evening set	11518 Dec 24 20:17	22°♉49'26		evening set	11519 Dec 05 19:14	4°♉10'58	
min. Earth dist.	11518 Dec 28 19:23	20°♉12'26	0.59384 AU	min. Earth dist.	11519 Dec 10 11:42	1°♉32'19	0.57357 AU
inferior conj	11518 Dec 31 23:31	17°♉43'28	-3°59'11		11519 Dec 12 18:16	30°♌♌	
minimum elong	11519 Jan 01 07:23	17°♉28'01	3°56'01	inferior conj	11519 Dec 13 09:04	29°♈34'39	-5°07'20

minimum elong	11519 Dec 13 16:47	29° ♁ 21'31	5°05'02	minimum elong	11520 Nov 23 00:42	10° ♁ 31'59	5°46'09
morning rise	11519 Dec 21 16:41	25° ♁ 19'16		morning rise	11520 Dec 01 09:27	6° ♁ 40'29	
direct	11519 Dec 23 22:50	25° ♁ 03'57		direct	11520 Dec 04 02:28	6° ♁ 22'02	
asc. node	11519 Dec 31 20:45	28° ♁ 27'07		morning max el	11520 Dec 14 12:27	11° ♁ 19'01	20°06'05
morning max el	11520 Jan 01 21:28	29° ♁ 23'34	18°58'56	asc. node	11520 Dec 17 17:49	14° ♁ 50'40	
	11520 Jan 02 12:03	0° ♁			11520 Dec 27 06:49	0° ♁	
morning set	11520 Jan 18 10:13	26° ♁ 00'22		morning set	11521 Jan 01 15:44	10° ♁ 36'49	
	11520 Jan 20 10:46	0° ♁					
				superior conj	11521 Jan 09 08:08	26° ♁ 17'10	1°17'14
superior conj	11520 Jan 26 20:12	12° ♁ 28'23	0°55'50	minimum elong	11521 Jan 09 10:50	26° ♁ 30'45	1°17'36
minimum elong	11520 Jan 26 23:09	12° ♁ 42'27	0°56'00		11521 Jan 11 04:58	0° ♁	
max. Earth dist.	11520 Feb 02 19:35	25° ♁ 21'44	1.39047 AU	max. Earth dist.	11521 Jan 15 02:23	7° ♁ 30'59	1.36853 AU
desc. node	11520 Feb 03 05:32	26° ♁ 06'01		evening rise	11521 Jan 18 20:41	14° ♁ 28'08	
	11520 Feb 05 10:52	0° ♁		desc. node	11521 Jan 20 02:18	16° ♁ 40'56	
evening rise	11520 Feb 06 15:48	2° ♁ 04'40			11521 Jan 27 22:36	0° ♁	
	11520 Feb 24 11:28	0° ♁			11521 Feb 18 05:51	0° ♁	
evening max el	11520 Mar 12 20:30	21° ♁ 44'05	24°28'55	evening max el	11521 Feb 23 09:50	5° ♁ 34'15	25°42'22
retrograde	11520 Mar 24 08:05	28° ♁ 27'05		retrograde	11521 Mar 07 19:46	12° ♁ 42'30	
asc. node	11520 Mar 28 18:27	26° ♁ 58'16		evening set	11521 Mar 13 19:35	10° ♁ 14'39	
evening set	11520 Mar 29 20:03	26° ♁ 08'58		asc. node	11521 Mar 15 15:49	8° ♁ 28'56	
min. Earth dist.	11520 Apr 03 10:04	20° ♁ 55'16	0.68279 AU	min. Earth dist.	11521 Mar 18 02:38	5° ♁ 36'06	0.67437 AU
inferior conj	11520 Apr 04 08:45	19° ♁ 39'17	1°57'27	inferior conj	11521 Mar 19 13:25	3° ♁ 45'36	1°13'09
minimum elong	11520 Apr 04 06:37	19° ♁ 46'26	1°56'35	minimum elong	11521 Mar 19 11:46	3° ♁ 50'52	1°12'34
morning rise	11520 Apr 09 17:20	13° ♁ 39'54			11521 Mar 22 17:38	30° ♁	
direct	11520 Apr 13 13:44	12° ♁ 15'10		morning rise	11521 Mar 25 04:30	27° ♁ 55'21	
morning max el	11520 Apr 21 02:00	16° ♁ 27'00	19°55'46	direct	11521 Mar 28 13:11	26° ♁ 50'40	
desc. node	11520 May 01 07:01	29° ♁ 14'39			11521 Apr 03 18:56	0° ♁	
	11520 May 01 19:48	0° ♁		morning max el	11521 Apr 04 08:46	0° ♁ 32'53	18°58'24
morning set	11520 May 17 23:45	24° ♁ 11'00		greatest brilliancy	11521 Apr 17 20:15	18° ♁ 37'51	-0.8m
	11520 May 21 18:01	0° ♁		desc. node	11521 Apr 18 03:43	19° ♁ 06'11	
max. Earth dist.	11520 May 28 17:47	10° ♁ 59'13	1.44405 AU		11521 Apr 25 05:47	0° ♁	
				morning set	11521 Apr 27 05:18	3° ♁ 04'08	
superior conj	11520 Jun 03 00:18	19° ♁ 27'30	-2°10'44	max. Earth dist.	11521 May 11 10:23	25° ♁ 12'23	1.45420 AU
minimum elong	11520 Jun 03 03:44	19° ♁ 41'27	2°11'21				
	11520 Jun 09 09:55	0° ♁		superior conj	11521 May 13 15:58	28° ♁ 42'53	-2°10'49
evening rise	11520 Jun 16 07:41	11° ♁ 40'33		minimum elong	11521 May 13 12:10	28° ♁ 27'52	2°11'18
asc. node	11520 Jun 24 16:35	25° ♁ 48'43			11521 May 14 11:34	0° ♁	
	11520 Jun 27 07:48	0° ♁		evening rise	11521 May 28 14:59	22° ♁ 39'00	
evening max el	11520 Jul 04 01:43	8° ♁ 49'08	18°07'17		11521 Jun 02 03:26	0° ♁	
retrograde	11520 Jul 10 10:49	12° ♁ 09'27		asc. node	11521 Jun 11 13:38	14° ♁ 46'15	
evening set	11520 Jul 13 05:32	11° ♁ 29'34		evening max el	11521 Jun 17 14:51	22° ♁ 22'06	18°27'37
inferior conj	11520 Jul 19 10:17	6° ♁ 14'23	2°21'09	retrograde	11521 Jun 24 01:35	25° ♁ 50'37	
minimum elong	11520 Jul 19 12:55	6° ♁ 07'17	2°19'51	evening set	11521 Jun 27 04:24	24° ♁ 56'15	
min. Earth dist.	11520 Jul 22 04:41	3° ♁ 16'46	0.62847 AU	inferior conj	11521 Jul 02 22:40	19° ♁ 24'31	2°55'27
morning rise	11520 Jul 25 18:24	0° ♁ 03'16		minimum elong	11521 Jul 03 00:35	19° ♁ 18'46	2°54'25
	11520 Jul 25 20:10	30° ♁		min. Earth dist.	11521 Jul 05 03:04	16° ♁ 48'59	0.64858 AU
desc. node	11520 Jul 28 06:22	28° ♁ 32'08		morning rise	11521 Jul 08 19:41	13° ♁ 04'36	
direct	11520 Aug 01 11:07	27° ♁ 34'06		direct	11521 Jul 15 09:07	10° ♁ 23'36	
	11520 Aug 08 17:13	0° ♁		desc. node	11521 Jul 15 03:36	10° ♁ 23'47	
morning max el	11520 Aug 15 11:58	5° ♁ 36'21	27°52'39	morning max el	11521 Jul 28 22:30	18° ♁ 21'22	27°16'53
	11520 Sep 02 22:45	0° ♁			11521 Aug 07 17:46	0° ♁	
morning set	11520 Sep 18 20:11	28° ♁ 39'14			11521 Aug 26 21:29	0° ♁	
	11520 Sep 19 12:05	0° ♁		morning set	11521 Sep 02 08:52	12° ♁ 05'18	
asc. node	11520 Sep 20 17:18	2° ♁ 30'07		max. Earth dist.	11521 Sep 06 21:02	21° ♁ 06'40	1.33314 AU
max. Earth dist.	11520 Sep 24 01:25	9° ♁ 32'46	1.32158 AU	asc. node	11521 Sep 07 14:01	22° ♁ 34'10	
superior conj	11520 Sep 26 12:19	14° ♁ 51'31	0°54'13	superior conj	11521 Sep 10 16:01	29° ♁ 02'21	0°29'44
minimum elong	11520 Sep 26 10:11	14° ♁ 39'55	0°53'58	minimum elong	11521 Sep 10 14:36	28° ♁ 54'46	0°29'22
evening rise	11520 Oct 03 08:20	29° ♁ 46'48			11521 Sep 11 02:52	0° ♁	
	11520 Oct 03 10:47	0° ♁		evening rise	11521 Sep 17 19:18	14° ♁ 19'18	
	11520 Oct 19 23:33	0° ♁			11521 Sep 25 15:26	0° ♁	
desc. node	11520 Oct 24 03:25	5° ♁ 20'04		evening max el	11521 Oct 08 22:26	18° ♁ 56'16	22°10'27
evening max el	11520 Oct 27 10:44	8° ♁ 51'04	23°51'08	desc. node	11521 Oct 11 00:44	20° ♁ 49'57	
retrograde	11520 Nov 10 00:13	15° ♁ 37'26		retrograde	11521 Oct 21 16:49	25° ♁ 17'13	
evening set	11520 Nov 14 17:53	14° ♁ 48'28		evening set	11521 Oct 24 23:11	24° ♁ 53'33	
min. Earth dist.	11520 Nov 20 21:12	11° ♁ 49'13	0.55706 AU	min. Earth dist.	11521 Nov 02 04:12	21° ♁ 15'49	0.54729 AU
inferior conj	11520 Nov 22 22:06	10° ♁ 35'54	-5°46'59	inferior conj	11521 Nov 02 18:54	20° ♁ 55'09	-5°36'26

minimum elong	11521 Nov 02 13:04	21° \mathbb{M} 03'22	5°35'13	evening set	11522 Oct 04 08:54	4° \mathbb{M} 52'13	
morning rise	11521 Nov 11 04:22	17° \mathbb{M} 08'08		inferior conj	11522 Oct 13 11:00	0° \mathbb{M} 56'54	-4°28'11
direct	11521 Nov 14 14:14	16° \mathbb{M} 42'15		minimum elong	11522 Oct 13 01:00	1° \mathbb{M} 11'15	4°25'07
morning max el	11521 Nov 26 13:37	22° \mathbb{M} 22'57	21°35'17	min. Earth dist.	11522 Oct 14 12:01	0° \mathbb{M} 20'56	0.54660 AU
	11521 Dec 03 00:55	0° \mathbb{X}			11522 Oct 15 02:43	30° \mathbb{R} \mathbb{A}	
asc. node	11521 Dec 04 14:49	2° \mathbb{X} 18'21		morning rise	11522 Oct 21 16:53	26° \mathbb{A} 58'49	
morning set	11521 Dec 17 01:20	25° \mathbb{X} 22'13		direct	11522 Oct 25 22:36	26° \mathbb{A} 20'12	
	11521 Dec 19 06:04	0° \mathbb{B}			11522 Nov 04 21:05	0° \mathbb{M}	
superior conj	11521 Dec 24 06:06	10° \mathbb{B} 33'22	1°31'08	morning max el	11522 Nov 08 03:47	2° \mathbb{M} 43'56	23°20'03
minimum elong	11521 Dec 24 07:55	10° \mathbb{B} 42'51	1°31'43	asc. node	11522 Nov 21 11:43	20° \mathbb{M} 34'47	
max. Earth dist.	11521 Dec 28 13:44	19° \mathbb{B} 23'58	1.34886 AU		11522 Nov 26 14:12	0° \mathbb{X}	
evening rise	11522 Jan 01 18:15	27° \mathbb{B} 34'36		morning set	11522 Dec 01 12:52	10° \mathbb{X} 09'43	
	11522 Jan 03 01:07	0° \mathbb{A}		superior conj	11522 Dec 08 10:53	25° \mathbb{X} 06'33	1°38'06
desc. node	11522 Jan 06 23:09	7° \mathbb{A} 07'29		minimum elong	11522 Dec 08 11:33	25° \mathbb{X} 10'11	1°38'48
	11522 Jan 21 05:50	0° \mathbb{H}			11522 Dec 10 17:46	0° \mathbb{B}	
evening max el	11522 Feb 05 23:20	19° \mathbb{H} 19'12	26°42'03	max. Earth dist.	11522 Dec 11 08:45	1° \mathbb{B} 19'10	1.33302 AU
retrograde	11522 Feb 19 02:12	26° \mathbb{H} 41'02		evening rise	11522 Dec 16 04:47	11° \mathbb{B} 13'40	
evening set	11522 Feb 25 12:44	24° \mathbb{H} 08'07		desc. node	11522 Dec 24 20:03	27° \mathbb{B} 19'53	
min. Earth dist.	11522 Mar 01 13:58	20° \mathbb{H} 03'38	0.66200 AU		11522 Dec 26 09:16	0° \mathbb{A}	
asc. node	11522 Mar 02 13:08	18° \mathbb{H} 55'34			11523 Jan 16 18:02	0° \mathbb{H}	
inferior conj	11522 Mar 03 12:43	17° \mathbb{H} 45'28	0°19'06	evening max el	11523 Jan 19 12:30	2° \mathbb{H} 48'46	27°20'42
minimum elong	11522 Mar 03 12:12	17° \mathbb{H} 47'00	0°19'07	retrograde	11523 Feb 02 02:18	10° \mathbb{H} 13'17	
morning rise	11522 Mar 09 12:49	12° \mathbb{H} 06'06		evening set	11523 Feb 08 21:17	7° \mathbb{H} 41'34	
direct	11522 Mar 12 11:06	11° \mathbb{H} 18'33		min. Earth dist.	11523 Feb 12 17:53	4° \mathbb{H} 09'17	0.64605 AU
morning max el	11522 Mar 18 21:49	14° \mathbb{H} 43'52	18°17'23	inferior conj	11523 Feb 15 04:12	1° \mathbb{H} 32'09	-0°44'38
	11522 Mar 30 03:49	0° \mathbb{Y}		minimum elong	11523 Feb 15 05:33	1° \mathbb{H} 28'30	0°43'39
desc. node	11522 Apr 05 00:23	9° \mathbb{Y} 17'11			11523 Feb 16 14:59	30° \mathbb{R} \mathbb{A}	
morning set	11522 Apr 07 10:53	13° \mathbb{Y} 11'08		asc. node	11523 Feb 17 10:25	29° \mathbb{A} 11'23	
	11522 Apr 18 00:58	0° \mathbb{B}		morning rise	11523 Feb 21 15:37	26° \mathbb{A} 06'03	
superior conj	11522 Apr 22 22:42	7° \mathbb{B} 41'51	-1°50'40	direct	11523 Feb 24 05:09	25° \mathbb{A} 32'03	
minimum elong	11522 Apr 22 13:34	7° \mathbb{B} 06'06	1°50'18	morning max el	11523 Mar 02 14:34	28° \mathbb{A} 51'40	17°53'20
max. Earth dist.	11522 Apr 24 05:35	9° \mathbb{B} 42'33	1.45715 AU		11523 Mar 03 16:48	0° \mathbb{H}	
	11522 May 07 05:34	0° \mathbb{I}		morning set	11523 Mar 19 21:25	24° \mathbb{H} 43'17	
evening rise	11522 May 08 22:29	2° \mathbb{I} 39'56		desc. node	11523 Mar 22 21:01	29° \mathbb{H} 41'36	
greatest brilliancy	11522 May 19 17:51	19° \mathbb{I} 28'04	-0.8m		11523 Mar 23 01:27	0° \mathbb{Y}	
	11522 May 26 23:23	0° \mathbb{B}		superior conj	11523 Apr 02 14:28	17° \mathbb{Y} 11'23	-1°15'01
asc. node	11522 May 29 10:44	3° \mathbb{B} 10'31		minimum elong	11523 Apr 02 06:33	16° \mathbb{Y} 39'41	1°14'11
evening max el	11522 Jun 01 00:40	6° \mathbb{B} 02'56	19°05'22	max. Earth dist.	11523 Apr 07 01:04	24° \mathbb{Y} 14'11	1.45268 AU
retrograde	11522 Jun 07 21:32	9° \mathbb{B} 52'11			11523 Apr 10 17:21	0° \mathbb{B}	
evening set	11522 Jun 11 08:50	8° \mathbb{B} 42'14		evening rise	11523 Apr 18 13:07	12° \mathbb{B} 05'31	
inferior conj	11522 Jun 16 20:14	2° \mathbb{B} 55'33	3°12'31		11523 Apr 30 08:57	0° \mathbb{I}	
minimum elong	11522 Jun 16 21:04	2° \mathbb{B} 52'51	3°11'43	greatest brilliancy	11523 May 03 10:24	4° \mathbb{I} 30'07	-0.6m
min. Earth dist.	11522 Jun 18 09:47	0° \mathbb{B} 55'08	0.66506 AU	evening max el	11523 May 15 05:27	19° \mathbb{I} 47'02	19°59'06
	11522 Jun 19 03:29	30° \mathbb{R} \mathbb{I}		asc. node	11523 May 16 07:53	20° \mathbb{I} 50'31	
morning rise	11522 Jun 22 08:43	26° \mathbb{I} 33'23		retrograde	11523 May 22 19:51	24° \mathbb{I} 08'05	
direct	11522 Jun 28 14:22	23° \mathbb{I} 51'09		evening set	11523 May 26 16:23	22° \mathbb{I} 41'56	
desc. node	11522 Jul 02 00:45	24° \mathbb{I} 32'40		inferior conj	11523 May 31 23:59	16° \mathbb{I} 41'45	3°15'34
	11522 Jul 09 20:47	0° \mathbb{B}		minimum elong	11523 May 31 23:44	16° \mathbb{I} 42'38	3°14'52
morning max el	11522 Jul 11 09:19	1° \mathbb{B} 29'30	26°13'39	min. Earth dist.	11523 Jun 01 23:03	15° \mathbb{I} 23'53	0.67715 AU
	11522 Aug 01 19:30	0° \mathbb{O}		morning rise	11523 Jun 06 06:44	10° \mathbb{I} 21'23	
morning set	11522 Aug 16 09:02	24° \mathbb{O} 54'41		direct	11523 Jun 12 01:25	7° \mathbb{I} 47'36	
	11522 Aug 19 01:38	0° \mathbb{P}		desc. node	11523 Jun 18 21:49	10° \mathbb{I} 31'51	
max. Earth dist.	11522 Aug 20 06:06	2° \mathbb{P} 17'36	1.34969 AU	morning max el	11523 Jun 23 19:11	14° \mathbb{I} 50'16	24°52'27
asc. node	11522 Aug 25 10:43	12° \mathbb{P} 40'03			11523 Jul 06 04:51	0° \mathbb{B}	
superior conj	11522 Aug 25 12:33	12° \mathbb{P} 49'27	0°00'45		11523 Jul 25 16:25	0° \mathbb{O}	
minimum elong	11522 Aug 25 12:32	12° \mathbb{P} 49'18	0°00'26	morning set	11523 Jul 29 16:25	6° \mathbb{O} 56'14	
behind sun begin	11522 Aug 25 06:34	12° \mathbb{P} 18'47		max. Earth dist.	11523 Aug 02 06:19	13° \mathbb{O} 23'21	1.37039 AU
behind sun end	11522 Aug 25 18:30	13° \mathbb{P} 19'52		superior conj	11523 Aug 08 22:51	26° \mathbb{O} 05'02	-0°31'43
evening rise	11522 Sep 02 03:56	28° \mathbb{P} 42'37		minimum elong	11523 Aug 09 00:55	26° \mathbb{O} 15'11	0°31'48
	11522 Sep 02 18:53	0° \mathbb{A}			11523 Aug 10 22:32	0° \mathbb{P}	
evening max el	11522 Sep 20 19:59	29° \mathbb{A} 26'23	20°40'36	asc. node	11523 Aug 12 07:28	2° \mathbb{P} 44'11	
	11522 Sep 21 09:53	0° \mathbb{M}		evening rise	11523 Aug 17 07:56	12° \mathbb{P} 50'35	
desc. node	11522 Sep 27 22:06	4° \mathbb{M} 17'17			11523 Aug 26 10:11	0° \mathbb{A}	
retrograde	11522 Oct 02 04:07	5° \mathbb{M} 04'00		evening max el	11523 Sep 03 07:27	10° \mathbb{A} 41'39	19°30'03

retrograde	11523 Sep 12 22:51	15° Ω 29'37		evening set	11524 Aug 26 10:08	26° Π 34'08	
evening set	11523 Sep 14 19:16	15° Ω 19'47		desc. node	11524 Aug 31 16:54	24° Π 05'55	
desc. node	11523 Sep 14 19:30	15° Ω 19'41		inferior conj	11524 Sep 03 10:11	22° Π 09'32	-0°50'59
inferior conj	11523 Sep 23 12:51	11° Ω 14'04	-2°42'09	minimum elong	11524 Sep 03 08:06	22° Π 13'25	0°50'20
minimum elong	11523 Sep 23 05:43	11° Ω 25'30	2°39'24	min. Earth dist.	11524 Sep 06 14:15	19° Π 48'31	0.57170 AU
min. Earth dist.	11523 Sep 25 22:39	9° Ω 41'54	0.55531 AU	morning rise	11524 Sep 11 02:41	17° Π 04'29	
morning rise	11523 Oct 01 13:56	6° Ω 46'45		direct	11524 Sep 16 22:12	15° Π 41'20	
direct	11523 Oct 06 15:38	5° Ω 49'07		morning max el	11524 Oct 01 05:15	23° Π 09'18	26°37'01
morning max el	11523 Oct 20 14:30	12° Ω 48'45	25°06'33		11524 Oct 07 08:52	0° Ω	
	11523 Nov 02 21:54	0° Π		asc. node	11524 Oct 25 05:21	28° Ω 48'03	
asc. node	11523 Nov 08 08:34	9° Π 28'01			11524 Oct 25 19:56	0° Π	
morning set	11523 Nov 16 00:34	24° Π 54'35		morning set	11524 Oct 30 10:47	9° Π 31'44	
	11523 Nov 18 08:57	0° Σ					
superior conj	11523 Nov 22 19:59	9° Σ 49'31	1°38'43	superior conj	11524 Nov 06 07:17	24° Π 35'32	1°33'24
minimum elong	11523 Nov 22 19:31	9° Σ 46'59	1°39'22	minimum elong	11524 Nov 06 05:53	24° Π 27'42	1°33'52
max. Earth dist.	11523 Nov 24 11:27	13° Σ 26'01	1.32177 AU	max. Earth dist.	11524 Nov 06 19:09	25° Π 41'34	1.31528 AU
evening rise	11523 Nov 30 01:05	25° Σ 17'05			11524 Nov 08 17:46	0° Σ	
	11523 Dec 02 08:59	0° Σ		evening rise	11524 Nov 13 04:21	9° Σ 37'10	
desc. node	11523 Dec 11 17:05	17° Σ 11'49			11524 Nov 23 16:28	0° Σ	
	11523 Dec 19 21:18	0° \approx		desc. node	11524 Nov 27 14:12	6° Σ 34'35	
evening max el	11524 Jan 01 23:34	15° \approx 50'32	27°31'27	evening max el	11524 Dec 14 05:47	28° Σ 10'55	27°09'17
retrograde	11524 Jan 15 19:07	23° \approx 10'18			11524 Dec 16 06:38	0° \approx	
evening set	11524 Jan 22 18:35	20° \approx 47'18		retrograde	11524 Dec 28 03:38	5° \approx 23'16	
min. Earth dist.	11524 Jan 26 12:24	17° \approx 43'25	0.62713 AU	evening set	11525 Jan 04 01:20	3° \approx 17'31	
inferior conj	11524 Jan 29 08:56	14° \approx 58'18	-1°56'58	min. Earth dist.	11525 Jan 07 20:14	0° \approx 34'29	0.60619 AU
minimum elong	11524 Jan 29 12:51	14° \approx 48'52	1°54'50		11525 Jan 08 12:56	30° Σ	
asc. node	11524 Feb 04 07:41	10° \approx 15'56		inferior conj	11525 Jan 10 23:36	27° Σ 55'00	-3°14'41
morning rise	11524 Feb 05 09:30	9° \approx 48'34		minimum elong	11525 Jan 11 06:16	27° Σ 40'50	3°11'38
direct	11524 Feb 07 16:22	9° \approx 24'20		morning rise	11525 Jan 18 13:59	23° Σ 05'01	
morning max el	11524 Feb 14 08:06	12° \approx 48'19	17°46'50	direct	11525 Jan 20 16:55	22° Σ 47'01	
	11524 Feb 26 02:17	0° Σ		asc. node	11525 Jan 21 04:54	22° Σ 48'03	
morning set	11524 Mar 01 08:24	7° Σ 25'33		morning max el	11525 Jan 27 23:07	26° Σ 24'56	17°58'51
desc. node	11524 Mar 08 17:39	20° Σ 15'04			11525 Jan 31 01:36	0° \approx	
superior conj	11524 Mar 13 04:08	27° Σ 44'23	-0°33'21	morning set	11525 Feb 12 13:26	20° \approx 58'05	
minimum elong	11524 Mar 13 00:47	27° Σ 30'26	0°32'45		11525 Feb 17 11:37	0° Σ	
	11524 Mar 14 12:49	0° Υ		superior conj	11525 Feb 22 18:33	9° Σ 27'25	0°06'24
max. Earth dist.	11524 Mar 19 18:46	8° Υ 32'54	1.44126 AU	minimum elong	11525 Feb 22 19:07	9° Σ 29'52	0°06'38
evening rise	11524 Mar 28 01:30	21° Υ 34'24		behind sun begin	11525 Feb 22 11:46	8° Σ 57'35	
	11524 Apr 02 14:04	0° Σ		behind sun end	11525 Feb 23 02:28	10° Σ 02'05	
evening max el	11524 Apr 23 23:34	0° Π		desc. node	11525 Feb 23 14:20	10° Σ 53'54	
asc. node	11524 Apr 27 04:32	3° Π 32'07	21°06'08	max. Earth dist.	11525 Mar 02 08:17	22° Σ 22'03	1.42409 AU
retrograde	11524 May 02 05:05	7° Π 32'36			11525 Mar 07 00:48	0° Υ	
evening set	11524 May 05 18:28	8° Π 33'07		evening rise	11525 Mar 08 02:02	1° Υ 40'37	
inferior conj	11524 May 10 01:03	6° Π 50'54			11525 Mar 27 01:06	0° Σ	
minimum elong	11524 May 15 07:30	0° Π 38'42	3°06'48	evening max el	11525 Apr 09 22:34	17° Σ 18'32	22°22'35
min. Earth dist.	11524 May 15 06:17	0° Π 42'54	3°06'03	asc. node	11525 Apr 19 02:21	23° Σ 01'28	
	11524 May 15 16:50	0° Π 06'15	0.68463 AU	retrograde	11525 Apr 19 15:46	23° Σ 02'58	
morning rise	11524 May 15 18:39	30° Σ		evening set	11525 Apr 24 09:14	21° Σ 05'27	
direct	11524 May 20 11:19	24° Σ 22'29		inferior conj	11525 Apr 29 16:41	14° Σ 43'37	2°47'35
desc. node	11524 May 25 17:14	22° Σ 04'22		minimum elong	11525 Apr 29 14:49	14° Σ 50'08	2°46'44
morning max el	11524 Jun 04 18:48	27° Σ 53'26		min. Earth dist.	11525 Apr 29 13:10	14° Σ 55'52	0.68744 AU
	11524 Jun 05 05:07	28° Σ 19'10	23°23'09	morning rise	11525 May 04 20:17	8° Σ 32'53	
	11524 Jun 06 19:35	0° Π		direct	11525 May 09 12:50	6° Σ 34'38	
morning set	11524 Jun 28 21:30	0° Θ		morning max el	11525 May 18 17:57	11° Σ 57'29	21°55'06
max. Earth dist.	11524 Jul 10 01:59	17° Θ 56'44		desc. node	11525 May 22 15:41	16° Σ 15'36	
	11524 Jul 14 03:38	24° Θ 54'04	1.39336 AU		11525 Jun 02 00:56	0° Π	
	11524 Jul 17 01:05	0° Ω		morning set	11525 Jun 20 09:57	27° Π 48'30	
superior conj	11524 Jul 21 19:03	8° Ω 39'02	-1°05'39		11525 Jun 21 18:39	0° Θ	
minimum elong	11524 Jul 21 23:38	9° Ω 00'16	1°05'31	max. Earth dist.	11525 Jun 26 04:15	7° Θ 12'47	1.41591 AU
asc. node	11524 Jul 29 04:15	22° Ω 42'02		superior conj	11525 Jul 03 20:50	20° Θ 22'07	-1°37'36
evening rise	11524 Jul 31 04:23	26° Ω 34'52		minimum elong	11525 Jul 04 03:20	20° Θ 50'44	1°37'33
	11524 Aug 01 22:58	0° Π			11525 Jul 09 05:59	0° Ω	
evening max el	11524 Aug 16 07:12	22° Π 42'00	18°40'54	evening rise	11525 Jul 14 13:44	9° Ω 46'54	
retrograde	11524 Aug 24 11:03	26° Π 47'30		asc. node	11525 Jul 16 01:07	12° Ω 30'05	
					11525 Jul 26 07:11	0° Π	

evening max el	11525 Jul 30 15:32	5° \mathbb{M} 20'25	18°12'31	asc. node	11526 Jul 02 22:03	2° \mathcal{O} 03'20	
retrograde	11525 Aug 06 18:14	8° \mathbb{M} 56'46		evening max el	11526 Jul 14 04:28	18° \mathcal{O} 27'21	18°03'49
evening set	11525 Aug 09 00:14	8° \mathbb{M} 35'43		retrograde	11526 Jul 20 17:02	21° \mathcal{O} 49'16	
inferior conj	11525 Aug 16 05:18	3° \mathbb{M} 50'36	0°42'48	evening set	11526 Jul 23 07:04	21° \mathcal{O} 17'04	
minimum elong	11525 Aug 16 06:40	3° \mathbb{M} 47'35	0°41'54	inferior conj	11526 Jul 29 19:38	16° \mathcal{O} 12'36	1°52'02
desc. node	11525 Aug 18 14:15	1° \mathbb{M} 45'58		minimum elong	11526 Jul 29 22:16	16° \mathcal{O} 05'59	1°50'41
min. Earth dist.	11525 Aug 19 13:13	0° \mathbb{M} 57'28	0.59291 AU	min. Earth dist.	11526 Aug 01 20:57	13° \mathcal{O} 09'58	0.61575 AU
	11525 Aug 20 17:58	30° \mathcal{R} \mathcal{O}		morning rise	11526 Aug 05 10:59	10° \mathcal{O} 10'14	
morning rise	11525 Aug 23 09:46	28° \mathcal{O} 11'41		desc. node	11526 Aug 05 11:34	10° \mathcal{O} 09'13	
direct	11525 Aug 29 18:40	26° \mathcal{O} 19'29		direct	11526 Aug 12 02:55	7° \mathcal{O} 51'58	
	11525 Sep 08 07:19	0° \mathbb{M}		morning max el	11526 Aug 26 07:58	15° \mathcal{O} 52'41	27°57'41
morning max el	11525 Sep 13 03:18	4° \mathbb{M} 08'18	27°36'26		11526 Sep 06 21:43	0° \mathbb{M}	
	11525 Oct 02 04:04	0° \mathcal{A}			11526 Sep 24 18:56	0° \mathcal{A}	
asc. node	11525 Oct 12 02:08	18° \mathcal{A} 27'25		morning set	11526 Sep 28 19:35	8° \mathcal{A} 03'23	
morning set	11525 Oct 14 17:47	23° \mathcal{A} 56'21		asc. node	11526 Sep 28 22:53	8° \mathcal{A} 20'22	
	11525 Oct 17 13:40	0° \mathbb{M}		max. Earth dist.	11526 Oct 04 10:55	20° \mathcal{A} 03'03	1.31713 AU
max. Earth dist.	11525 Oct 21 04:14	7° \mathbb{M} 57'06	1.31367 AU				
				superior conj	11526 Oct 06 05:06	23° \mathcal{A} 54'35	1°06'04
superior conj	11525 Oct 21 18:56	9° \mathbb{M} 18'58	1°22'27	minimum elong	11526 Oct 06 02:51	23° \mathcal{A} 42'11	1°05'56
minimum elong	11525 Oct 21 16:54	9° \mathbb{M} 07'36	1°22'37		11526 Oct 08 23:14	0° \mathbb{M}	
evening rise	11525 Oct 28 12:18	24° \mathbb{M} 07'40		evening rise	11526 Oct 12 22:55	8° \mathbb{M} 43'26	
	11525 Oct 31 07:16	0° \mathcal{A}			11526 Oct 23 19:02	0° \mathcal{A}	
desc. node	11525 Nov 14 11:23	25° \mathcal{A} 16'32		desc. node	11526 Nov 01 08:38	13° \mathcal{A} 01'59	
	11525 Nov 17 19:15	0° \mathcal{B}		evening max el	11526 Nov 07 19:15	20° \mathcal{A} 20'23	24°48'08
evening max el	11525 Nov 26 04:31	9° \mathcal{B} 40'19	26°13'01	retrograde	11526 Nov 21 14:31	27° \mathcal{A} 15'18	
retrograde	11525 Dec 10 02:47	16° \mathcal{B} 45'01		evening set	11526 Nov 27 02:01	26° \mathcal{A} 08'14	
evening set	11525 Dec 16 13:16	15° \mathcal{B} 05'30		min. Earth dist.	11526 Dec 02 06:58	23° \mathcal{A} 22'57	0.56579 AU
min. Earth dist.	11525 Dec 20 17:41	12° \mathcal{B} 30'12	0.58491 AU	inferior conj	11526 Dec 04 21:24	21° \mathcal{A} 42'42	-5°29'03
inferior conj	11525 Dec 23 20:37	10° \mathcal{B} 12'18	-4°30'15	minimum elong	11526 Dec 05 03:38	21° \mathcal{A} 32'40	5°27'26
minimum elong	11525 Dec 24 04:54	9° \mathcal{B} 57'02	4°27'16	morning rise	11526 Dec 13 07:27	17° \mathcal{A} 36'28	
morning rise	11525 Dec 31 23:14	5° \mathcal{B} 44'30		direct	11526 Dec 15 17:02	17° \mathcal{A} 20'27	
direct	11526 Jan 03 02:21	5° \mathcal{B} 29'20		morning max el	11526 Dec 25 06:24	21° \mathcal{A} 55'32	19°24'40
asc. node	11526 Jan 08 02:05	6° \mathcal{B} 57'57		asc. node	11526 Dec 25 23:12	22° \mathcal{A} 37'20	
morning max el	11526 Jan 11 07:52	9° \mathcal{B} 31'03	18°30'50		11526 Dec 31 16:30	0° \mathcal{B}	
	11526 Jan 24 15:22	0° \approx		morning set	11527 Jan 11 09:07	19° \mathcal{B} 32'26	
morning set	11526 Jan 27 07:00	5° \approx 04'11			11527 Jan 16 14:17	0° \approx	
				superior conj	11527 Jan 19 10:50	5° \approx 38'05	1°05'50
superior conj	11526 Feb 05 06:23	22° \approx 09'44	0°39'56	minimum elong	11527 Jan 19 13:48	5° \approx 52'32	1°06'04
minimum elong	11526 Feb 05 08:56	22° \approx 21'35	0°40'03	max. Earth dist.	11527 Jan 25 22:45	17° \approx 55'11	1.38098 AU
	11526 Feb 09 13:50	0° \mathcal{H}		desc. node	11527 Jan 28 07:47	22° \approx 12'11	
desc. node	11526 Feb 10 11:01	1° \mathcal{H} 34'00		evening rise	11527 Jan 29 16:24	24° \approx 36'09	
max. Earth dist.	11526 Feb 12 16:43	5° \mathcal{H} 28'44	1.40318 AU		11527 Feb 01 19:40	0° \mathcal{H}	
evening rise	11526 Feb 16 22:35	12° \mathcal{H} 40'33			11527 Feb 21 13:31	0° \mathcal{Y}	
	11526 Feb 27 21:02	0° \mathcal{Y}		evening max el	11527 Mar 06 02:49	14° \mathcal{Y} 57'42	25°01'21
	11526 Mar 22 11:07	0° \mathcal{B}		retrograde	11527 Mar 18 00:47	21° \mathcal{Y} 53'08	
evening max el	11526 Mar 23 13:16	1° \mathcal{B} 06'48	23°43'12	evening set	11527 Mar 23 17:42	19° \mathcal{Y} 30'39	
retrograde	11526 Apr 03 10:19	7° \mathcal{B} 31'24		asc. node	11527 Mar 23 21:01	19° \mathcal{Y} 23'31	
asc. node	11526 Apr 05 23:41	7° \mathcal{B} 00'51		min. Earth dist.	11527 Mar 28 04:40	14° \mathcal{Y} 31'40	0.67973 AU
evening set	11526 Apr 08 15:18	5° \mathcal{B} 20'12		inferior conj	11527 Mar 29 08:26	13° \mathcal{Y} 00'26	1°39'51
	11526 Apr 13 05:44	30° \mathcal{R} \mathcal{Y}		minimum elong	11527 Mar 29 06:26	13° \mathcal{Y} 07'01	1°39'05
min. Earth dist.	11526 Apr 13 09:51	29° \mathcal{Y} 45'59	0.68572 AU	morning rise	11527 Apr 03 19:27	7° \mathcal{Y} 04'25	
inferior conj	11526 Apr 14 01:38	28° \mathcal{Y} 52'00	2°18'32	direct	11527 Apr 07 10:42	5° \mathcal{Y} 48'27	
minimum elong	11526 Apr 13 23:28	28° \mathcal{Y} 59'25	2°17'39	morning max el	11527 Apr 14 14:58	9° \mathcal{Y} 46'22	19°29'16
morning rise	11526 Apr 19 07:38	22° \mathcal{Y} 47'57		desc. node	11527 Apr 26 09:14	24° \mathcal{Y} 58'27	
direct	11526 Apr 23 11:07	21° \mathcal{Y} 11'08		greatest brilliancy	11527 Apr 27 07:41	26° \mathcal{Y} 20'50	-0.7m
morning max el	11526 May 01 12:39	25° \mathcal{Y} 46'20	20°35'32		11527 Apr 29 18:41	0° \mathcal{B}	
	11526 May 05 08:11	0° \mathcal{B}		morning set	11527 May 09 18:07	15° \mathcal{B} 11'00	
desc. node	11526 May 09 12:29	5° \mathcal{B} 21'11			11527 May 19 07:09	0° \mathcal{H}	
	11526 May 26 10:40	0° \mathcal{H}		max. Earth dist.	11527 May 22 00:33	4° \mathcal{H} 17'12	1.44927 AU
morning set	11526 May 30 18:20	6° \mathcal{H} 38'37					
max. Earth dist.	11526 Jun 08 11:05	20° \mathcal{H} 22'59	1.43526 AU	superior conj	11527 May 26 03:09	10° \mathcal{H} 48'38	-2°13'14
	11526 Jun 14 08:13	0° \mathcal{B}		minimum elong	11527 May 26 03:47	10° \mathcal{H} 51'10	2°13'54
superior conj	11526 Jun 14 23:56	1° \mathcal{B} 05'25	-2°02'22		11527 Jun 06 21:34	0° \mathcal{B}	
minimum elong	11526 Jun 15 05:48	1° \mathcal{B} 29'52	2°02'44	evening rise	11527 Jun 09 04:15	3° \mathcal{B} 47'49	
evening rise	11526 Jun 27 07:21	22° \mathcal{B} 14'59		asc. node	11527 Jun 19 19:02	21° \mathcal{B} 15'52	
	11526 Jul 01 17:30	0° \mathcal{O}			11527 Jun 26 00:42	0° \mathcal{O}	

evening max el	11527 Jun 27 18:29	1°Ω53'30	18°13'48	evening rise	11528 May 20 01:08	14°Π20'40	
retrograde	11527 Jul 04 03:05	5°Ω15'20		greatest brilliancy	11528 May 27 16:16	26°Π30'19	-0.9m
evening set	11527 Jul 07 01:17	4°Ω29'27			11528 May 29 21:39	0°Θ	
	11527 Jul 12 06:13	30°κΘ		asc. node	11528 Jun 05 16:04	10°Θ00'27	
inferior conj	11527 Jul 13 01:07	29°Θ07'16	2°38'00	evening max el	11528 Jun 10 06:33	15°Θ30'59	18°41'37
minimum elong	11527 Jul 13 03:32	29°Θ00'27	2°36'49	retrograde	11528 Jun 16 20:25	19°Θ06'28	
min. Earth dist.	11527 Jul 15 13:54	26°Θ16'57	0.63747 AU	evening set	11528 Jun 20 02:54	18°Θ05'23	
morning rise	11527 Jul 19 04:16	22°Θ51'39		inferior conj	11528 Jun 25 17:49	12°Θ27'03	3°04'33
desc. node	11527 Jul 23 08:50	20°Θ36'47		minimum elong	11528 Jun 25 19:18	12°Θ22'28	3°03'39
direct	11527 Jul 25 20:27	20°Θ15'53		min. Earth dist.	11528 Jun 27 15:51	10°Θ05'30	0.65615 AU
morning max el	11527 Aug 08 16:53	28°Θ17'39	27°41'14	morning rise	11528 Jul 01 10:54	6°Θ05'50	
	11527 Aug 10 08:12	0°Ω		direct	11528 Jul 07 21:34	3°Θ23'14	
	11527 Aug 31 17:17	0°Π		desc. node	11528 Jul 09 06:01	3°Θ29'38	
morning set	11527 Sep 12 13:48	21°Π45'58		morning max el	11528 Jul 21 03:40	11°Θ13'40	26°52'48
asc. node	11527 Sep 15 19:35	28°Π21'24			11528 Aug 05 01:38	0°Ω	
	11527 Sep 16 14:32	0°Ω			11528 Aug 23 06:21	0°Π	
max. Earth dist.	11527 Sep 17 11:25	1°Ω49'39	1.32584 AU	morning set	11528 Aug 25 21:34	4°Π57'18	
				max. Earth dist.	11528 Aug 30 02:49	13°Π13'46	1.33968 AU
superior conj	11527 Sep 20 11:46	8°Ω16'01	0°44'27	asc. node	11528 Sep 01 16:18	18°Π26'45	
minimum elong	11527 Sep 20 09:51	8°Ω05'42	0°44'07				
evening rise	11527 Sep 27 10:17	23°Ω18'28		superior conj	11528 Sep 03 12:44	22°Π17'35	0°17'57
	11527 Sep 30 14:48	0°Π		minimum elong	11528 Sep 03 11:49	22°Π12'45	0°17'35
desc. node	11527 Oct 19 05:57	29°Π28'46			11528 Sep 07 04:15	0°Ω	
	11527 Oct 19 18:13	0°♂		evening rise	11528 Sep 10 20:31	7°Ω47'57	
evening max el	11527 Oct 20 05:42	0°♂28'17	23°07'59		11528 Sep 22 14:18	0°Π	
retrograde	11527 Nov 02 12:51	7°♂05'19		evening max el	11528 Sep 30 20:35	10°Π39'34	21°30'08
evening set	11527 Nov 06 15:21	6°♂28'43		desc. node	11528 Oct 05 03:16	14°Π09'50	
min. Earth dist.	11527 Nov 13 15:05	3°♂15'08	0.55189 AU	retrograde	11528 Oct 13 01:28	16°Π43'32	
inferior conj	11527 Nov 15 02:34	2°♂23'53	-5°49'39	evening set	11528 Oct 15 19:19	16°Π26'19	
minimum elong	11527 Nov 15 01:36	2°♂25'16	5°49'02	inferior conj	11528 Oct 24 19:29	12°Π30'48	-5°13'55
	11527 Nov 19 13:14	30°κΠ		minimum elong	11528 Oct 24 10:56	12°Π42'45	5°11'51
morning rise	11527 Nov 23 13:29	28°Π33'38		min. Earth dist.	11528 Oct 24 21:39	12°Π27'45	0.54589 AU
direct	11527 Nov 26 13:14	28°Π12'26		morning rise	11528 Nov 02 03:31	8°Π42'03	
	11527 Dec 03 01:00	0°♂		direct	11528 Nov 05 21:58	8°Π11'21	
morning max el	11527 Dec 07 15:21	3°♂27'59	20°41'31	morning max el	11528 Nov 18 10:57	14°Π10'05	22°18'40
asc. node	11527 Dec 12 20:13	9°♂29'30		asc. node	11528 Nov 28 17:10	27°Π18'54	
	11527 Dec 24 15:08	0°Θ			11528 Nov 30 08:05	0°♂	
morning set	11527 Dec 26 16:39	4°Θ13'03		morning set	11528 Dec 10 03:16	18°♂59'27	
					11528 Dec 15 07:01	0°Θ	
superior conj	11528 Jan 03 03:25	19°Θ38'58	1°24'00				
minimum elong	11528 Jan 03 05:49	19°Θ51'09	1°24'28	superior conj	11528 Dec 17 04:35	4°Θ02'33	1°34'54
	11528 Jan 08 08:06	0°≈		minimum elong	11528 Dec 17 05:56	4°Θ09'40	1°35'33
max. Earth dist.	11528 Jan 08 07:03	29°Θ54'55	1.35981 AU	max. Earth dist.	11528 Dec 20 21:42	11°Θ47'26	1.34161 AU
evening rise	11528 Jan 12 04:50	7°≈18'44		evening rise	11528 Dec 25 08:17	20°Θ39'11	
desc. node	11528 Jan 15 04:36	12°≈43'52			11528 Dec 30 08:05	0°≈	
	11528 Jan 25 13:49	0°κ		desc. node	11529 Jan 01 01:29	3°≈04'38	
evening max el	11528 Feb 16 16:26	28°κ47'08	26°09'55		11529 Jan 18 12:14	0°κ	
	11528 Feb 17 23:18	0°Υ		evening max el	11529 Jan 29 05:58	12°κ26'28	27°01'30
retrograde	11528 Feb 29 10:13	6°Υ01'52		retrograde	11529 Feb 11 13:48	19°κ49'54	
evening set	11528 Mar 06 14:44	3°Υ31'32		evening set	11529 Feb 18 04:28	17°κ16'35	
asc. node	11528 Mar 09 18:21	0°Υ21'40		min. Earth dist.	11529 Feb 22 03:34	13°κ26'22	0.65564 AU
	11528 Mar 10 01:46	30°κκ		inferior conj	11529 Feb 24 07:22	10°κ59'01	-0°06'46
min. Earth dist.	11528 Mar 10 19:19	29°κ07'27	0.66962 AU	minimum elong	11529 Feb 24 07:32	10°κ58'30	0°06'23
inferior conj	11528 Mar 12 11:06	27°κ04'36	0°51'27	transit middle	11529 Feb 24 07:32	10°κ58'30	0°06'23
minimum elong	11528 Mar 12 09:51	27°κ08'29	0°51'05	transit begin	11529 Feb 24 04:48	11°κ06'19	
morning rise	11528 Mar 18 05:41	21°κ18'30		transit end	11529 Feb 24 10:17	10°κ50'41	
direct	11528 Mar 21 09:52	20°κ21'19		asc. node	11529 Feb 24 15:39	10°κ35'26	
morning max el	11528 Mar 28 00:34	23°κ54'39	18°38'50	morning rise	11529 Mar 02 12:00	5°κ25'06	
	11528 Apr 02 03:43	0°Υ		direct	11529 Mar 05 06:27	4°κ43'39	
desc. node	11528 Apr 12 05:55	14°Υ59'01		morning max el	11529 Mar 11 15:32	8°κ04'52	18°05'07
morning set	11528 Apr 18 08:26	24°Υ31'50			11529 Mar 26 20:54	0°Υ	
	11528 Apr 21 20:11	0°Ϸ		morning set	11529 Mar 30 02:32	5°Υ15'55	
max. Earth dist.	11528 May 03 18:57	18°Ϸ40'59	1.45645 AU	desc. node	11529 Mar 30 02:35	5°Υ16'07	
superior conj	11528 May 04 12:59	19°Ϸ51'31	-2°04'38	superior conj	11529 Apr 13 21:23	28°Υ57'29	-1°36'53
minimum elong	11528 May 04 06:13	19°Ϸ25'02	2°04'47	minimum elong	11529 Apr 13 12:01	28°Υ20'38	1°36'15
	11528 May 11 00:04	0°Π			11529 Apr 14 13:16	0°Ϸ	

max. Earth dist.	11529 Apr 16 15:11	3°♄15'45	1.45615 AU		11530 Mar 19 12:08	0°♄	
evening rise	11529 Apr 30 00:09	24°♄02'59					
	11529 May 03 20:38	0°♄		superior conj	11530 Mar 24 21:39	8°♄52'31	-0°57'34
greatest brilliancy	11529 May 12 18:43	13°♄35'32	-0.7m	minimum elong	11530 Mar 24 15:33	8°♄27'46	0°56'46
asc. node	11529 May 23 13:11	28°♄07'13		max. Earth dist.	11530 Mar 30 10:04	17°♄43'30	1.44854 AU
evening max el	11529 May 24 14:21	29°♄13'18	19°26'19		11530 Apr 07 06:33	0°♄	
	11529 May 25 09:39	0°♄		evening rise	11530 Apr 09 11:55	3°♄25'11	
retrograde	11529 May 31 17:46	3°♄14'55			11530 Apr 27 09:09	0°♄	
evening set	11529 Jun 04 08:56	1°♄57'58		evening max el	11530 May 07 16:38	12°♄57'43	20°26'05
	11529 Jun 06 13:40	30°♄11		asc. node	11530 May 10 10:22	15°♄24'34	
inferior conj	11529 Jun 09 18:21	26°♄05'04	3°15'23	retrograde	11530 May 15 16:37	17°♄35'31	
minimum elong	11529 Jun 09 18:43	26°♄03'53	3°14'38	evening set	11530 May 19 17:13	16°♄02'35	
min. Earth dist.	11529 Jun 11 01:32	24°♄22'28	0.67077 AU	inferior conj	11530 May 25 00:01	9°♄56'50	3°13'13
morning rise	11529 Jun 15 04:03	19°♄43'16		minimum elong	11530 May 24 23:20	9°♄59'11	3°12'30
direct	11529 Jun 21 05:11	17°♄03'57		min. Earth dist.	11530 May 25 17:08	8°♄58'09	0.68090 AU
desc. node	11529 Jun 26 03:07	18°♄28'48		morning rise	11530 May 30 05:11	3°♄37'44	
morning max el	11529 Jul 03 14:20	24°♄28'47	25°40'45	direct	11530 Jun 04 18:27	1°♄09'57	
	11529 Jul 08 13:30	0°♄		desc. node	11530 Jun 13 00:10	5°♄06'10	
	11529 Jul 29 12:03	0°♄		morning max el	11530 Jun 16 00:12	7°♄54'06	24°14'48
morning set	11529 Aug 08 15:09	17°♄27'25			11530 Jul 03 07:10	0°♄	
max. Earth dist.	11529 Aug 12 08:01	24°♄20'46	1.35815 AU	morning set	11530 Jul 21 13:56	29°♄04'53	
	11529 Aug 15 06:23	0°♄			11530 Jul 22 02:38	0°♄	
				max. Earth dist.	11530 Jul 25 05:57	5°♄32'23	1.38005 AU
superior conj	11529 Aug 18 05:17	5°♄51'43	-0°12'44				
minimum elong	11529 Aug 18 06:04	5°♄55'40	0°12'56	superior conj	11530 Aug 01 10:05	18°♄50'32	-0°46'07
behind sun begin	11529 Aug 18 02:19	5°♄36'52		minimum elong	11530 Aug 01 13:12	19°♄05'29	0°46'05
behind sun end	11529 Aug 18 09:48	6°♄14'30		asc. node	11530 Aug 06 09:47	28°♄33'47	
asc. node	11529 Aug 19 13:01	8°♄32'03			11530 Aug 07 03:13	0°♄	
evening rise	11529 Aug 26 03:29	22°♄05'21		evening rise	11530 Aug 10 04:40	6°♄04'07	
	11529 Aug 30 01:52	0°♄			11530 Aug 24 00:41	0°♄	
evening max el	11529 Sep 12 23:46	21°♄26'40	20°07'52	evening max el	11530 Aug 26 16:51	3°♄01'41	19°06'29
desc. node	11529 Sep 22 00:38	26°♄36'47		retrograde	11530 Sep 04 16:17	7°♄30'16	
retrograde	11529 Sep 23 14:47	26°♄43'38		evening set	11530 Sep 06 12:44	7°♄19'37	
evening set	11529 Sep 25 13:59	26°♄33'34		desc. node	11530 Sep 08 22:02	6°♄36'51	
inferior conj	11529 Oct 04 14:02	22°♄34'52	-3°45'50	inferior conj	11530 Sep 14 23:30	3°♄06'45	-1°53'51
minimum elong	11529 Oct 04 04:37	22°♄48'56	3°42'32	minimum elong	11530 Sep 14 18:33	3°♄15'11	1°51'57
min. Earth dist.	11529 Oct 06 06:16	21°♄34'49	0.54921 AU	min. Earth dist.	11530 Sep 17 19:08	1°♄11'58	0.56147 AU
morning rise	11529 Oct 12 18:12	18°♄26'08			11530 Sep 19 16:55	30°♄	
direct	11529 Oct 17 08:16	17°♄40'34		morning rise	11530 Sep 22 21:22	28°♄23'10	
morning max el	11529 Oct 30 22:45	24°♄20'27	24°06'21	direct	11530 Sep 28 06:57	27°♄15'13	
	11529 Nov 05 03:02	0°♄			11530 Oct 06 19:18	0°♄	
asc. node	11529 Nov 15 14:03	15°♄52'04		morning max el	11530 Oct 12 10:37	4°♄28'50	25°48'03
	11529 Nov 22 20:13	0°♄			11530 Oct 30 18:41	0°♄	
morning set	11529 Nov 24 15:04	3°♄46'27		asc. node	11530 Nov 02 10:53	4°♄57'39	
				morning set	11530 Nov 09 02:20	18°♄28'27	
superior conj	11529 Dec 01 11:29	18°♄40'46	1°39'07		11530 Nov 14 08:38	0°♄	
minimum elong	11529 Dec 01 11:40	18°♄41'45	1°39'50				
max. Earth dist.	11529 Dec 03 20:09	23°♄47'05	1.32759 AU	superior conj	11530 Nov 15 21:46	3°♄25'54	1°37'10
	11529 Dec 06 18:46	0°♄		minimum elong	11530 Nov 15 20:53	3°♄20'57	1°37'46
evening rise	11529 Dec 08 23:19	4°♄29'13		max. Earth dist.	11530 Nov 17 01:07	5°♄57'05	1.31833 AU
desc. node	11529 Dec 18 22:27	23°♄09'09		evening rise	11530 Nov 22 22:52	18°♄40'27	
	11529 Dec 23 01:06	0°♄			11530 Nov 28 14:59	0°♄	
evening max el	11530 Jan 11 18:17	25°♄45'04	27°29'02	desc. node	11530 Dec 05 19:30	12°♄49'42	
	11530 Jan 16 21:58	0°♄			11530 Dec 17 12:08	0°♄	
retrograde	11530 Jan 25 11:00	3°♄08'48		evening max el	11530 Dec 25 03:29	8°♄30'13	27°26'19
evening set	11530 Feb 01 08:38	0°♄39'23		retrograde	11531 Jan 08 00:46	15°♄47'57	
	11530 Feb 02 05:20	30°♄		evening set	11531 Jan 15 00:14	13°♄31'08	
min. Earth dist.	11530 Feb 05 03:34	27°♄20'10	0.63826 AU	min. Earth dist.	11531 Jan 18 17:44	10°♄37'16	0.61828 AU
inferior conj	11530 Feb 07 18:39	24°♄37'50	-1°14'23	inferior conj	11531 Jan 21 17:50	7°♄52'26	-2°29'39
minimum elong	11530 Feb 07 21:01	24°♄31'44	1°12'55	minimum elong	11531 Jan 21 22:56	7°♄40'43	2°27'03
asc. node	11530 Feb 11 12:55	21°♄05'28		morning rise	11531 Jan 29 00:19	2°♄50'51	
morning rise	11530 Feb 14 11:31	19°♄18'41		asc. node	11531 Jan 29 10:11	2°♄43'47	
direct	11530 Feb 16 21:55	18°♄49'21		direct	11531 Jan 31 04:57	2°♄29'50	
morning max el	11530 Feb 23 09:06	22°♄09'33	17°48'30	morning max el	11531 Feb 07 02:02	5°♄58'55	17°49'38
	11530 Mar 01 12:16	0°♄		morning set	11531 Feb 22 19:39	0°♄25'50	
morning set	11530 Mar 12 00:16	17°♄20'22			11531 Feb 22 13:53	0°♄	
desc. node	11530 Mar 16 23:14	25°♄45'02		desc. node	11531 Mar 03 19:53	16°♄20'57	

superior conj	11531 Mar 05 21:57	19° H 55'30	-0°15'58			11532 Jan 29 09:30	0° \approx	
minimum elong	11531 Mar 05 20:28	19° H 49'12	0°15'31	morning set		11532 Feb 06 06:35	14° \approx 14'11	
behind sun begin	11531 Mar 05 18:20	19° H 40'08				11532 Feb 14 18:20	0° H	
behind sun end	11531 Mar 05 22:36	19° H 58'15						
	11531 Mar 11 22:51	0° Y		superior conj		11532 Feb 15 21:56	2° H 04'33	0°21'31
max. Earth dist.	11531 Mar 13 01:32	1° Y 48'46	1.43450 AU	minimum elong		11532 Feb 15 23:35	2° H 11'55	0°21'40
evening rise	11531 Mar 20 03:54	13° Y 06'06		desc. node		11532 Feb 18 16:34	7° H 00'28	
	11531 Mar 31 07:37	0° B		max. Earth dist.		11532 Feb 23 12:49	15° H 20'25	1.41555 AU
evening max el	11531 Apr 20 13:26	26° B 43'16	21°37'50	evening rise		11532 Feb 28 12:26	23° H 34'04	
	11531 Apr 24 07:48	0° II				11532 Mar 03 13:22	0° Y	
asc. node	11531 Apr 27 07:37	1° II 37'31				11532 Mar 24 07:05	0° B	
retrograde	11531 Apr 29 14:53	2° II 02'56		evening max el		11532 Apr 02 05:57	10° B 30'37	22°56'52
evening set	11531 May 04 01:54	0° II 14'20		retrograde		11532 Apr 12 11:02	16° B 32'21	
	11531 May 04 08:39	30° R B		asc. node		11532 Apr 13 04:56	16° B 29'43	
inferior conj	11531 May 09 08:32	23° B 57'48	2°59'53	evening set		11532 Apr 17 09:20	14° B 28'55	
minimum elong	11531 May 09 07:00	24° B 03'07	2°59'06	inferior conj		11532 Apr 22 17:50	8° B 04'12	2°36'25
min. Earth dist.	11531 May 09 12:24	23° B 44'17	0.68636 AU	minimum elong		11532 Apr 22 15:47	8° B 11'17	2°35'34
morning rise	11531 May 14 11:54	17° B 43'31		min. Earth dist.		11532 Apr 22 09:07	8° B 34'25	0.68725 AU
direct	11531 May 19 12:11	15° B 33'16		morning rise		11532 Apr 27 22:07	1° B 56'12	
morning max el	11531 May 29 10:51	21° B 26'19	22°45'00	direct		11532 May 02 09:09	0° B 06'47	
desc. node	11531 May 30 21:07	22° B 55'43		morning max el		11532 May 11 01:41	5° B 07'58	21°19'52
	11531 Jun 05 19:40	0° II		desc. node		11532 May 16 17:58	11° B 37'40	
	11531 Jun 26 13:23	0° B				11532 May 29 23:12	0° II	
morning set	11531 Jul 02 13:00	9° B 37'24		morning set		11532 Jun 11 09:59	18° II 59'44	
max. Earth dist.	11531 Jul 07 03:35	17° B 20'13	1.40316 AU			11532 Jun 18 06:21	0° B	
	11531 Jul 14 08:45	0° Q		max. Earth dist.		11532 Jun 18 06:55	0° B 02'20	1.42469 AU
superior conj	11531 Jul 14 23:06	1° Q 04'57	-1°19'42	superior conj		11532 Jun 25 15:43	12° B 23'51	-1°49'20
minimum elong	11531 Jul 15 04:39	1° Q 30'09	1°19'34	minimum elong		11532 Jun 25 22:25	12° B 52'37	1°49'27
asc. node	11531 Jul 24 06:37	18° Q 28'20				11532 Jul 05 14:45	0° Q	
evening rise	11531 Jul 24 20:57	19° Q 36'18		evening rise		11532 Jul 07 00:12	2° Q 31'09	
	11531 Jul 30 10:44	0° P		asc. node		11532 Jul 10 03:31	8° Q 10'48	
evening max el	11531 Aug 09 20:55	15° P 20'40	18°26'23	evening max el		11532 Jul 23 07:45	28° Q 12'51	18°06'28
retrograde	11531 Aug 17 12:32	19° P 11'31				11532 Jul 25 10:08	0° P	
evening set	11531 Aug 19 14:24	18° P 55'18		retrograde		11532 Jul 30 02:55	1° P 41'01	
desc. node	11531 Aug 26 19:25	14° P 43'50		evening set		11532 Aug 01 12:26	1° P 15'27	
inferior conj	11531 Aug 27 06:16	14° P 22'16	-0°08'23			11532 Aug 03 23:53	30° R Q	
minimum elong	11531 Aug 27 05:57	14° P 22'55	0°08'32	inferior conj		11532 Aug 08 10:01	26° Q 21'39	1°15'10
transit middle	11531 Aug 27 05:57	14° P 22'55	0°08'32	minimum elong		11532 Aug 08 12:10	26° Q 16'40	1°13'58
transit begin	11531 Aug 27 02:56	14° P 28'55		min. Earth dist.		11532 Aug 11 16:02	23° Q 22'01	0.60266 AU
transit end	11531 Aug 27 08:58	14° P 16'53		desc. node		11532 Aug 12 16:46	22° Q 29'11	
min. Earth dist.	11531 Aug 30 13:46	11° P 44'55	0.58037 AU	morning rise		11532 Aug 15 08:57	20° Q 31'45	
morning rise	11531 Sep 03 17:59	9° P 02'01		direct		11532 Aug 21 21:47	18° Q 27'57	
direct	11531 Sep 09 20:10	7° P 26'15		morning max el		11532 Sep 05 05:09	26° Q 21'56	27°50'15
morning max el	11531 Sep 24 04:12	15° P 04'02	27°06'35			11532 Sep 08 15:07	0° P	
	11531 Oct 06 05:49	0° B				11532 Sep 28 19:34	0° B	
asc. node	11531 Oct 20 07:41	24° B 27'04		asc. node		11532 Oct 06 04:27	14° B 12'53	
	11531 Oct 23 00:59	0° M		morning set		11532 Oct 07 16:27	17° B 18'53	
morning set	11531 Oct 24 11:25	3° M 01'09				11532 Oct 13 13:33	0° M	
				max. Earth dist.		11532 Oct 13 18:31	0° M 27'28	1.31462 AU
superior conj	11531 Oct 31 09:29	18° M 12'02	1°29'26	superior conj		11532 Oct 14 20:43	2° M 52'46	1°16'10
minimum elong	11531 Oct 31 07:46	18° M 02'27	1°29'47	minimum elong		11532 Oct 14 18:32	2° M 40'37	1°16'11
max. Earth dist.	11531 Oct 31 09:50	18° M 14'00	1.31401 AU	evening rise		11532 Oct 21 13:47	17° M 40'02	
	11531 Nov 05 17:44	0° A				11532 Oct 27 13:41	0° A	
evening rise	11531 Nov 07 04:26	3° A 06'23		desc. node		11532 Nov 08 13:51	20° A 16'51	
	11531 Nov 21 11:18	0° B				11532 Nov 16 10:49	0° B	
desc. node	11531 Nov 22 16:39	1° B 56'48		evening max el		11532 Nov 18 02:22	1° B 38'16	25°39'42
evening max el	11531 Dec 07 07:01	20° B 30'33	26°49'27	retrograde		11532 Dec 01 23:32	8° B 38'18	
retrograde	11531 Dec 21 05:31	27° B 39'15		evening set		11532 Dec 08 01:56	7° B 12'14	
evening set	11531 Dec 27 23:31	25° B 44'04		min. Earth dist.		11532 Dec 12 14:44	4° B 35'08	0.57642 AU
min. Earth dist.	11531 Dec 31 21:17	23° B 05'52	0.59705 AU	inferior conj		11532 Dec 15 14:00	2° B 31'49	-4°58'23
inferior conj	11532 Jan 04 01:26	20° B 33'47	-3°47'44	minimum elong		11532 Dec 15 22:01	2° B 17'53	4°55'52
minimum elong	11532 Jan 04 09:02	20° B 18'31	3°44'32			11532 Dec 19 11:59	30° R A	
morning rise	11532 Jan 11 21:21	15° B 52'39		morning rise		11532 Dec 23 20:32	28° A 13'18	
direct	11532 Jan 13 23:41	15° B 36'17		direct		11532 Dec 26 01:43	27° A 58'07	
asc. node	11532 Jan 16 07:24	15° B 57'15				11533 Jan 01 03:09	0° B	
morning max el	11532 Jan 21 14:48	19° B 23'29	18°09'49					

asc. node	11533 Jan 02 04:32	0°♁46'37		asc. node	11533 Dec 20 01:36	16°♁59'01	
morning max el	11533 Jan 03 19:34	2°♁12'39	18°50'57		11533 Dec 28 15:12	0°♁	
morning set	11533 Jan 20 04:13	28°♁31'10		morning set	11534 Jan 04 08:55	13°♁05'41	
	11533 Jan 20 22:20	0°♁					
superior conj	11533 Jan 28 17:25	15°♁08'05	0°51'54	superior conj	11534 Jan 12 03:32	28°♁52'02	1°14'28
minimum elong	11533 Jan 28 20:18	15°♁21'46	0°52'02	minimum elong	11534 Jan 12 06:20	29°♁05'58	1°14'48
desc. node	11533 Feb 04 13:17	27°♁40'13			11534 Jan 12 17:13	0°♁	
max. Earth dist.	11533 Feb 04 20:16	28°♁11'09	1.39377 AU	max. Earth dist.	11534 Jan 18 02:38	10°♁23'59	1.37166 AU
	11533 Feb 05 21:01	0°♁		evening rise	11534 Jan 21 20:15	17°♁14'33	
evening rise	11533 Feb 08 18:10	4°♁58'08		desc. node	11534 Jan 22 10:03	18°♁16'09	
	11533 Feb 24 15:58	0°♁			11534 Jan 29 06:45	0°♁	
evening max el	11533 Mar 15 19:57	24°♁20'26	24°17'12	evening max el	11534 Feb 19 01:13	0°♁	
	11533 Mar 23 05:28	0°♁			11534 Feb 26 09:12	8°♁10'38	25°32'07
retrograde	11533 Mar 27 03:49	0°♁59'00		retrograde	11534 Mar 10 16:19	15°♁16'15	
	11533 Mar 30 18:18	30°♁		evening set	11534 Mar 16 14:20	12°♁49'35	
asc. node	11533 Mar 31 02:14	29°♁48'20		asc. node	11534 Mar 17 23:33	11°♁32'01	
evening set	11533 Apr 01 14:02	28°♁42'28		min. Earth dist.	11534 Mar 20 22:19	8°♁05'46	0.67588 AU
min. Earth dist.	11533 Apr 06 05:08	23°♁23'34	0.68368 AU	inferior conj	11534 Mar 22 07:19	6°♁19'57	1°20'30
inferior conj	11533 Apr 07 02:04	22°♁13'02	2°03'18	minimum elong	11534 Mar 22 05:33	6°♁25'37	1°19'53
minimum elong	11533 Apr 06 23:55	22°♁20'18	2°02'27	morning rise	11534 Mar 27 21:16	0°♁28'11	
morning rise	11533 Apr 12 09:54	16°♁12'29			11534 Mar 28 16:44	30°♁	
direct	11533 Apr 16 08:06	14°♁44'43		direct	11534 Mar 31 07:35	29°♁20'42	
morning max el	11533 Apr 23 23:35	19°♁02'08	20°05'39		11534 Apr 03 00:53	0°♁	
	11533 May 02 22:02	0°♁		morning max el	11534 Apr 07 05:14	3°♁06'43	19°05'53
desc. node	11533 May 03 14:44	0°♁58'02		desc. node	11534 Apr 20 11:26	20°♁45'59	
morning set	11533 May 21 12:10	27°♁35'21		greatest brilliancy	11534 Apr 20 08:23	20°♁34'29	-0.7m
	11533 May 23 01:38	0°♁			11534 Apr 26 12:44	0°♁	
max. Earth dist.	11533 May 31 17:20	13°♁35'20	1.44196 AU	morning set	11534 Apr 30 15:25	6°♁20'46	
				max. Earth dist.	11534 May 14 08:59	27°♁43'20	1.45314 AU
					11534 May 15 19:46	0°♁	
superior conj	11533 Jun 06 08:29	22°♁40'48	-2°09'04	superior conj	11534 May 17 02:46	2°♁02'14	-2°12'08
minimum elong	11533 Jun 06 12:43	22°♁58'07	2°09'37	minimum elong	11534 May 17 00:08	1°♁51'48	2°12'41
	11533 Jun 10 18:51	0°♁		evening rise	11534 May 31 20:29	25°♁44'42	
evening rise	11533 Jun 19 09:38	14°♁37'34			11534 Jun 03 10:49	0°♁	
asc. node	11533 Jun 27 00:28	27°♁36'20			11534 Jun 13 21:28	16°♁37'59	
	11533 Jun 28 11:35	0°♁		asc. node	11534 Jun 20 10:54	25°♁00'13	18°23'30
evening max el	11533 Jul 06 21:30	11°♁28'56	18°05'45	evening max el	11534 Jun 26 20:53	28°♁26'39	
retrograde	11533 Jul 13 07:13	14°♁49'21		retrograde	11534 Jun 29 22:27	27°♁34'37	
evening set	11533 Jul 16 00:42	14°♁11'33		evening set	11534 Jul 05 18:03	22°♁05'23	2°51'24
inferior conj	11533 Jul 22 07:20	8°♁59'01	2°14'08	inferior conj	11534 Jul 05 20:07	21°♁59'17	2°50'20
minimum elong	11533 Jul 22 10:01	8°♁51'57	2°12'48	minimum elong	11534 Jul 08 00:42	19°♁25'25	0.64578 AU
min. Earth dist.	11533 Jul 25 03:39	5°♁59'27	0.62524 AU	min. Earth dist.	11534 Jul 11 16:34	15°♁46'17	
morning rise	11533 Jul 28 17:17	2°♁49'43		morning rise	11534 Jul 17 11:15	13°♁08'31	
desc. node	11533 Jul 30 14:02	1°♁39'01		desc. node	11534 Jul 18 06:53	13°♁06'12	
direct	11533 Aug 04 09:54	0°♁23'09		direct	11534 Jul 31 22:22	21°♁05'49	27°24'10
morning max el	11533 Aug 18 12:09	8°♁25'27	27°55'06	morning max el	11534 Aug 08 15:25	0°♁	
	11533 Sep 04 03:17	0°♁			11534 Aug 28 06:38	0°♁	
	11533 Sep 21 00:13	0°♁			11534 Sep 05 05:36	14°♁47'39	
morning set	11533 Sep 21 15:21	1°♁16'32		morning set	11534 Sep 09 21:54	24°♁13'47	
asc. node	11533 Sep 23 01:11	4°♁09'57		asc. node	11534 Sep 09 20:10	24°♁04'46	1.33105 AU
max. Earth dist.	11533 Sep 26 23:14	12°♁27'18	1.32027 AU	max. Earth dist.	11534 Sep 12 15:56	0°♁	
superior conj	11533 Sep 29 05:38	17°♁22'56	0°57'31	superior conj	11534 Sep 13 10:12	1°♁37'11	0°33'47
minimum elong	11533 Sep 29 03:27	17°♁11'01	0°57'17	minimum elong	11534 Sep 13 08:37	1°♁28'46	0°33'25
	11533 Oct 04 23:44	0°♁		evening rise	11534 Sep 20 12:05	16°♁49'54	
evening rise	11533 Oct 06 00:57	2°♁16'12			11534 Sep 26 23:35	0°♁	
	11533 Oct 20 21:53	0°♁			11534 Oct 12 01:21	22°♁05'46	22°25'09
desc. node	11533 Oct 26 11:07	7°♁31'52		evening max el	11534 Oct 13 08:25	23°♁18'09	
evening max el	11533 Oct 30 14:13	12°♁00'20	24°06'08	desc. node	11534 Oct 24 23:41	28°♁31'31	
retrograde	11533 Nov 13 05:34	18°♁49'31		retrograde	11534 Oct 28 11:00	28°♁04'59	
evening set	11533 Nov 18 04:09	17°♁55'57		evening set	11534 Nov 05 08:22	24°♁33'55	0.54820 AU
min. Earth dist.	11533 Nov 24 01:01	15°♁00'55	0.55910 AU	min. Earth dist.	11534 Nov 06 04:41	24°♁05'13	-5°41'53
inferior conj	11533 Nov 26 05:56	13°♁40'15	-5°43'47	inferior conj	11534 Nov 06 00:03	24°♁11'47	5°40'54
minimum elong	11533 Nov 26 09:39	13°♁34'34	5°42'49	minimum elong	11534 Nov 14 14:35	20°♁17'50	
morning rise	11533 Dec 04 17:12	9°♁42'27		morning rise	11534 Nov 17 21:39	19°♁53'19	
direct	11533 Dec 07 08:00	9°♁24'48		direct	11534 Nov 29 15:48	25°♁27'40	21°20'43
morning max el	11533 Dec 17 12:36	14°♁15'55	19°54'41	morning max el			

	11534 Dec 03 18:56	0°♊		morning rise	11535 Oct 25 02:59	0°♌12'25	
asc. node	11534 Dec 06 22:36	4°♊18'11			11535 Oct 25 21:58	30°♌	
morning set	11534 Dec 19 18:03	27°♊50'11		direct	11535 Oct 29 05:52	29°♌35'58	
	11534 Dec 20 18:51	0°♋			11535 Nov 01 12:13	0°♌	
				morning max el	11535 Nov 11 07:06	5°♌53'21	23°03'51
superior conj	11534 Dec 27 00:14	13°♋04'47	1°29'27	asc. node	11535 Nov 23 19:32	22°♌28'05	
minimum elong	11534 Dec 27 02:12	13°♋15'03	1°30'01		11535 Nov 27 23:57	0°♊	
max. Earth dist.	11534 Dec 31 12:57	22°♋17'42	1.35160 AU	morning set	11535 Dec 04 05:24	12°♊37'37	
evening rise	11535 Jan 04 15:37	0°♌15'28					
	11535 Jan 04 12:20	0°♌		superior conj	11535 Dec 11 04:10	27°♊35'45	1°37'27
desc. node	11535 Jan 09 06:55	8°♌44'27		minimum elong	11535 Dec 11 05:01	27°♊40'19	1°38'09
	11535 Jan 22 09:39	0°♌			11535 Dec 12 07:08	0°♋	
evening max el	11535 Feb 08 22:44	21°♌56'59	26°34'19	max. Earth dist.	11535 Dec 14 06:53	4°♋12'06	1.33516 AU
retrograde	11535 Feb 21 23:32	29°♌17'27		evening rise	11535 Dec 19 00:27	13°♋50'09	
evening set	11535 Feb 28 08:32	26°♌45'07		desc. node	11535 Dec 27 03:51	28°♋59'21	
min. Earth dist.	11535 Mar 04 10:37	22°♌35'29	0.66411 AU		11535 Dec 27 17:47	0°♌	
asc. node	11535 Mar 04 20:50	22°♌05'15			11536 Jan 17 08:05	0°♌	
inferior conj	11535 Mar 06 07:33	20°♌21'01	0°27'58	evening max el	11536 Jan 22 12:10	5°♌29'52	27°16'32
minimum elong	11535 Mar 06 06:49	20°♌23'14	0°27'52	retrograde	11536 Feb 05 00:35	12°♌54'04	
morning rise	11535 Mar 12 06:08	14°♌39'45		evening set	11536 Feb 11 18:30	10°♌21'51	
direct	11535 Mar 15 05:52	13°♌49'51		min. Earth dist.	11536 Feb 15 15:46	6°♌44'56	0.64865 AU
morning max el	11535 Mar 21 17:24	17°♌16'56	18°22'20	inferior conj	11536 Feb 18 00:22	4°♌10'08	-0°34'20
	11535 Mar 31 08:49	0°♍		minimum elong	11536 Feb 18 01:23	4°♌07'20	0°33'32
desc. node	11535 Apr 07 08:08	10°♍54'23		asc. node	11536 Feb 19 18:08	2°♌18'37	
morning set	11535 Apr 10 16:43	16°♍14'44			11536 Feb 22 07:08	30°♌	
	11535 Apr 19 09:12	0°♎		morning rise	11536 Feb 24 09:57	28°♌41'49	
				direct	11536 Feb 27 00:44	28°♌05'57	
superior conj	11535 Apr 26 09:39	11°♎00'20	-1°54'52		11536 Mar 02 18:45	0°♌	
minimum elong	11535 Apr 26 00:54	10°♎26'09	1°54'40	morning max el	11536 Mar 04 09:47	1°♌25'38	17°55'49
max. Earth dist.	11535 Apr 27 03:48	12°♎11'15	1.45722 AU	morning set	11536 Mar 21 23:11	27°♌35'19	
	11535 May 08 13:16	0°♏			11536 Mar 23 10:07	0°♍	
evening rise	11535 May 12 07:11	5°♏52'47		desc. node	11536 Mar 24 04:49	1°♍17'23	
greatest brilliancy	11535 May 22 08:35	21°♏36'48	-0.8m				
	11535 May 27 23:16	0°♏		superior conj	11536 Apr 04 23:05	20°♍22'51	-1°21'01
asc. node	11535 May 31 18:31	5°♏07'42		minimum elong	11536 Apr 04 14:38	19°♍49'12	1°20'13
evening max el	11535 Jun 03 21:21	8°♏40'09	18°58'46	max. Earth dist.	11536 Apr 08 23:47	26°♍45'13	1.45382 AU
retrograde	11535 Jun 10 16:09	12°♏25'23			11536 Apr 11 01:28	0°♎	
evening set	11535 Jun 14 02:12	11°♏17'46		evening rise	11536 Apr 20 23:39	15°♎22'05	
inferior conj	11535 Jun 19 14:25	5°♏33'20	3°10'53		11536 Apr 30 14:15	0°♏	
minimum elong	11535 Jun 19 15:26	5°♏30'06	3°10'03	greatest brilliancy	11536 May 05 10:35	7°♏12'13	-0.6m
min. Earth dist.	11535 Jun 21 06:12	3°♏27'06	0.66287 AU	evening max el	11536 May 17 03:00	22°♏24'19	19°50'09
	11535 Jun 24 07:04	30°♎		asc. node	11536 May 17 15:38	22°♏55'24	
morning rise	11535 Jun 25 04:00	29°♏11'19		retrograde	11536 May 24 14:17	26°♏39'51	
direct	11535 Jul 01 11:06	26°♏28'36		evening set	11536 May 28 09:26	25°♏16'02	
desc. node	11535 Jul 04 08:24	26°♏57'57		inferior conj	11536 Jun 02 17:25	19°♏17'41	3°15'54
	11535 Jul 09 17:33	0°♏		minimum elong	11536 Jun 02 17:19	19°♏18'02	3°15'11
morning max el	11535 Jul 14 09:06	4°♏10'34	26°24'27	min. Earth dist.	11536 Jun 03 18:33	17°♏53'22	0.67567 AU
	11535 Aug 03 01:12	0°♐		morning rise	11536 Jun 08 00:52	12°♏56'59	
morning set	11535 Aug 19 07:50	27°♐42'50		direct	11536 Jun 13 21:18	10°♏21'34	
	11535 Aug 20 12:53	0°♐		desc. node	11536 Jun 20 05:30	12°♏42'31	
max. Earth dist.	11535 Aug 23 06:44	5°♐18'09	1.34692 AU	morning max el	11536 Jun 25 19:08	17°♏30'08	25°05'18
asc. node	11535 Aug 27 18:36	14°♐19'42			11536 Jul 06 05:45	0°♏	
					11536 Jul 26 01:14	0°♐	
superior conj	11535 Aug 28 07:57	15°♐28'15	0°05'24	morning set	11536 Jul 31 17:59	9°♏51'58	
minimum elong	11535 Aug 28 07:40	15°♐26'46	0°05'06	max. Earth dist.	11536 Aug 04 08:11	16°♏23'40	1.36714 AU
behind sun begin	11535 Aug 28 02:02	14°♐57'48					
behind sun end	11535 Aug 28 13:18	15°♐55'48		superior conj	11536 Aug 10 19:59	28°♏48'52	-0°26'39
	11535 Sep 04 06:49	0°♑		minimum elong	11536 Aug 10 21:42	28°♏57'20	0°26'45
evening rise	11535 Sep 04 21:11	1°♑14'55			11536 Aug 11 10:23	0°♐	
	11535 Sep 21 13:34	0°♑		asc. node	11536 Aug 13 15:22	4°♐24'16	
evening max el	11535 Sep 23 21:02	2°♑30'30	20°52'56	evening rise	11536 Aug 19 02:02	15°♐25'31	
desc. node	11535 Sep 30 05:47	7°♑05'59			11536 Aug 26 15:29	0°♑	
retrograde	11535 Oct 05 10:47	8°♑15'05		evening max el	11536 Sep 05 06:21	13°♑37'59	19°39'10
evening set	11535 Oct 07 18:26	8°♑02'14		retrograde	11536 Sep 15 03:41	18°♑33'22	
inferior conj	11535 Oct 16 20:33	4°♑07'26	-4°41'43	desc. node	11536 Sep 16 03:09	18°♑30'39	
minimum elong	11535 Oct 16 10:40	4°♑21'29	4°38'50	evening set	11536 Sep 17 00:29	18°♑23'37	
min. Earth dist.	11535 Oct 17 15:49	3°♑40'01	0.54613 AU	inferior conj	11536 Sep 25 20:05	14°♑19'57	-2°59'14

minimum elong	11536 Sep 25 12:14	14°♄32'15	2°56'16	min. Earth dist.	11537 Sep 09 16:31	22°♄54'15	0.56885 AU
min. Earth dist.	11536 Sep 28 01:41	12°♄56'04	0.55347 AU	morning rise	11537 Sep 14 08:11	20°♄09'21	
morning rise	11536 Oct 03 22:04	9°♄57'56		direct	11537 Sep 20 01:11	18°♄50'20	
direct	11536 Oct 08 20:50	9°♄03'42		morning max el	11537 Oct 04 07:44	26°♄14'58	26°25'22
morning max el	11536 Oct 22 17:47	15°♄58'12	24°51'21		11537 Oct 07 21:21	0°♄	
	11536 Nov 03 00:04	0°♄			11537 Oct 27 06:26	0°♄	
asc. node	11536 Nov 09 16:26	11°♄16'32		asc. node	11537 Oct 27 13:17	0°♄33'19	
morning set	11536 Nov 17 17:13	27°♄23'17		morning set	11537 Nov 02 03:49	12°♄02'16	
	11536 Nov 18 22:19	0°♄					
				superior conj	11537 Nov 08 23:54	27°♄03'58	1°34'35
superior conj	11536 Nov 24 12:46	12°♄17'37	1°39'01	minimum elong	11537 Nov 08 22:37	26°♄56'52	1°35'05
minimum elong	11536 Nov 24 12:28	12°♄16'00	1°39'41	max. Earth dist.	11537 Nov 09 15:47	28°♄32'18	1.31585 AU
max. Earth dist.	11536 Nov 26 08:40	16°♄17'37	1.32315 AU		11537 Nov 10 07:36	0°♄	
evening rise	11536 Dec 01 19:29	27°♄50'19		evening rise	11537 Nov 15 21:52	12°♄08'33	
	11536 Dec 02 20:59	0°♄			11537 Nov 25 00:37	0°♄	
desc. node	11536 Dec 13 00:51	18°♄54'50		desc. node	11537 Nov 29 21:55	8°♄22'57	
	11536 Dec 19 23:29	0°♄			11537 Dec 16 04:20	0°♄	
evening max el	11537 Jan 03 23:41	18°♄36'34	27°31'49	evening max el	11537 Dec 17 06:43	1°♄04'09	27°14'50
retrograde	11537 Jan 17 18:26	25°♄57'14		retrograde	11537 Dec 31 04:31	8°♄18'11	
evening set	11537 Jan 24 17:42	23°♄32'17		evening set	11538 Jan 07 02:58	6°♄09'09	
min. Earth dist.	11537 Jan 28 11:44	20°♄24'41	0.63010 AU	min. Earth dist.	11538 Jan 10 21:12	3°♄23'47	0.60935 AU
inferior conj	11537 Jan 31 06:57	17°♄39'57	-1°45'33	inferior conj	11538 Jan 13 24:00	0°♄42'16	-3°02'51
minimum elong	11537 Jan 31 10:26	17°♄31'22	1°43'35	minimum elong	11538 Jan 14 06:17	0°♄28'39	2°59'52
asc. node	11537 Feb 05 15:26	13°♄12'36			11538 Jan 14 19:38	30°♄	
morning rise	11537 Feb 07 05:29	12°♄27'42		morning rise	11538 Jan 21 12:23	25°♄49'19	
direct	11537 Feb 09 13:13	12°♄02'13		direct	11538 Jan 23 15:38	25°♄30'40	
morning max el	11537 Feb 16 03:28	15°♄24'45	17°46'43	asc. node	11538 Jan 23 12:42	25°♄30'43	
	11537 Feb 26 09:49	0°♄		morning max el	11538 Jan 30 19:10	29°♄05'54	17°55'49
morning set	11537 Mar 04 06:59	10°♄08'38			11538 Jan 31 16:08	0°♄	
desc. node	11537 Mar 11 01:29	21°♄49'59		morning set	11538 Feb 15 09:42	23°♄35'10	
	11537 Mar 15 22:05	0°♄			11538 Feb 18 22:03	0°♄	
				superior conj	11538 Feb 25 20:03	12°♄19'23	0°00'41
superior conj	11537 Mar 16 09:09	0°♄45'51	-0°39'42	minimum elong	11538 Feb 25 20:08	12°♄19'46	0°00'57
minimum elong	11537 Mar 16 05:05	0°♄29'03	0°39'02	behind sun begin	11538 Feb 25 11:59	11°♄44'13	
max. Earth dist.	11537 Mar 22 18:06	11°♄07'43	1.44333 AU	behind sun end	11538 Feb 26 04:17	12°♄55'13	
evening rise	11537 Mar 31 11:24	24°♄48'19		desc. node	11538 Feb 25 22:09	12°♄28'32	
	11537 Apr 03 20:55	0°♄		max. Earth dist.	11538 Mar 05 08:04	25°♄01'27	1.42693 AU
	11537 Apr 24 18:57	0°♄			11538 Mar 08 09:22	0°♄	
evening max el	11537 Apr 30 02:56	6°♄09'28	20°55'23	evening rise	11538 Mar 11 09:26	4°♄47'34	
asc. node	11537 May 04 12:51	9°♄47'38			11538 Mar 28 04:31	0°♄	
retrograde	11537 May 08 13:04	11°♄04'20		evening max el	11538 Apr 12 21:35	19°♄55'34	22°10'46
evening set	11537 May 12 18:06	9°♄24'25		asc. node	11538 Apr 21 10:08	25°♄28'49	
inferior conj	11537 May 18 00:33	3°♄13'46	3°08'49	retrograde	11538 Apr 22 10:44	25°♄33'52	
minimum elong	11537 May 17 23:28	3°♄17'29	3°08'05	evening set	11538 Apr 27 02:29	23°♄38'36	
min. Earth dist.	11537 May 18 11:51	2°♄34'38	0.68382 AU	inferior conj	11538 May 02 09:39	17°♄17'57	2°51'07
	11537 May 20 09:59	30°♄		minimum elong	11538 May 02 07:52	17°♄24'11	2°50'18
morning rise	11537 May 23 04:38	26°♄56'46		min. Earth dist.	11538 May 02 08:02	17°♄23'37	0.68731 AU
direct	11537 May 28 12:27	24°♄36'07		morning rise	11538 May 07 13:06	11°♄06'11	
desc. node	11537 Jun 07 02:31	29°♄53'34		direct	11538 May 12 07:36	9°♄04'49	
	11537 Jun 07 05:13	0°♄		morning max el	11538 May 21 17:17	14°♄35'35	22°07'44
morning max el	11537 Jun 08 05:04	0°♄58'42	23°36'35	desc. node	11538 May 24 23:25	18°♄07'51	
	11537 Jun 30 03:38	0°♄			11538 Jun 03 03:50	0°♄	
morning set	11537 Jul 13 07:09	21°♄02'39			11538 Jun 23 02:52	0°♄	
max. Earth dist.	11537 Jul 17 05:34	27°♄49'11	1.38993 AU	morning set	11538 Jun 23 19:02	1°♄05'03	
	11537 Jul 18 11:15	0°♄		max. Earth dist.	11538 Jun 29 05:08	9°♄59'06	1.41270 AU
				superior conj	11538 Jul 06 23:22	23°♄21'04	-1°33'04
superior conj	11537 Jul 24 18:34	11°♄29'40	-1°00'32	minimum elong	11538 Jul 07 05:41	23°♄49'06	1°33'00
minimum elong	11537 Jul 24 22:46	11°♄49'20	1°00'26		11538 Jul 10 16:14	0°♄	
asc. node	11537 Jul 31 12:09	24°♄23'21		evening rise	11538 Jul 17 11:07	12°♄31'37	
evening rise	11537 Aug 02 23:51	29°♄14'01		asc. node	11538 Jul 18 08:59	14°♄13'12	
	11537 Aug 03 09:19	0°♄			11538 Jul 27 07:44	0°♄	
evening max el	11537 Aug 19 04:26	25°♄31'44	18°46'49	evening max el	11538 Aug 02 11:46	8°♄05'24	18°15'27
retrograde	11537 Aug 27 13:08	29°♄42'59		retrograde	11538 Aug 09 17:31	11°♄45'04	
evening set	11537 Aug 29 11:17	29°♄30'30		evening set	11538 Aug 11 22:21	11°♄25'26	
desc. node	11537 Sep 03 00:32	27°♄34'39		inferior conj	11538 Aug 19 06:09	6°♄43'31	0°30'06
inferior conj	11537 Sep 06 14:12	25°♄08'57	-1°07'02				
minimum elong	11537 Sep 06 11:25	25°♄14'02	1°06'04				

minimum elong	11538 Aug 19 07:10	6° \cap 41'22	0°29'23	inferior conj	11539 Aug 01 17:54	19° Ω 00'25	1°43'04
desc. node	11538 Aug 20 21:54	5° \cap 18'15		minimum elong	11539 Aug 01 20:28	18° Ω 54'07	1°41'44
min. Earth dist.	11538 Aug 22 14:24	3° \cap 53'37	0.58958 AU	min. Earth dist.	11539 Aug 04 20:41	15° Ω 57'50	0.61238 AU
morning rise	11538 Aug 26 12:32	1° \cap 09'03		desc. node	11539 Aug 07 19:12	13° Ω 29'07	
	11538 Aug 29 01:05	30° κ Ω		morning rise	11539 Aug 08 11:12	13° Ω 01'01	
direct	11538 Sep 01 19:53	29° Ω 20'56		direct	11539 Aug 15 02:38	10° Ω 46'11	
	11538 Sep 05 17:11	0° \cap		morning max el	11539 Aug 29 08:18	18° Ω 45'24	27°56'57
morning max el	11538 Sep 16 04:37	7° \cap 07'32	27°29'57		11539 Sep 07 20:07	0° \cap	
	11538 Oct 03 09:37	0° $\underline{\Omega}$			11539 Sep 26 05:28	0° $\underline{\Omega}$	
asc. node	11538 Oct 14 10:03	20° $\underline{\Omega}$ 10'14		asc. node	11539 Oct 01 06:46	10° $\underline{\Omega}$ 01'37	
morning set	11538 Oct 17 11:22	26° $\underline{\Omega}$ 29'03		morning set	11539 Oct 01 14:02	10° $\underline{\Omega}$ 39'08	
	11538 Oct 19 02:54	0° \cap		max. Earth dist.	11539 Oct 07 08:02	22° $\underline{\Omega}$ 56'08	1.31632 AU
superior conj	11538 Oct 24 11:36	11° \cap 48'15	1°24'29	superior conj	11539 Oct 08 22:05	26° $\underline{\Omega}$ 25'36	1°08'54
minimum elong	11538 Oct 24 09:37	11° \cap 37'17	1°24'41	minimum elong	11539 Oct 08 19:50	26° $\underline{\Omega}$ 13'11	1°08'49
max. Earth dist.	11538 Oct 24 00:47	10° \cap 48'00	1.31353 AU		11539 Oct 10 12:49	0° \cap	
evening rise	11538 Oct 31 05:13	26° \cap 37'56		evening rise	11539 Oct 15 15:33	11° \cap 13'30	
	11538 Nov 01 19:22	0° κ			11539 Oct 25 01:38	0° κ	
desc. node	11538 Nov 16 19:05	27° κ 11'59		desc. node	11539 Nov 03 16:18	15° κ 07'05	
	11538 Nov 18 16:40	0° $\overline{\Omega}$		evening max el	11539 Nov 10 22:35	23° κ 28'27	25°02'08
evening max el	11538 Nov 29 06:43	12° $\overline{\Omega}$ 41'41	26°23'34		11539 Nov 21 12:08	0° $\overline{\Omega}$	
retrograde	11538 Dec 13 05:19	19° $\overline{\Omega}$ 47'45		retrograde	11539 Nov 24 18:33	0° $\overline{\Omega}$ 24'39	
evening set	11538 Dec 19 18:01	18° $\overline{\Omega}$ 03'57			11539 Nov 28 01:14	30° κ κ	
min. Earth dist.	11538 Dec 23 20:14	15° $\overline{\Omega}$ 28'26	0.58796 AU	evening set	11539 Nov 30 10:16	29° κ 12'45	
inferior conj	11538 Dec 26 23:51	13° $\overline{\Omega}$ 06'14	-4°19'30	min. Earth dist.	11539 Dec 05 10:32	26° κ 30'07	0.56841 AU
minimum elong	11538 Dec 27 08:03	12° $\overline{\Omega}$ 50'46	4°16'24	inferior conj	11539 Dec 08 03:37	24° κ 43'38	-5°22'04
morning rise	11539 Jan 04 00:52	8° $\overline{\Omega}$ 34'58		minimum elong	11539 Dec 08 10:30	24° κ 32'20	5°20'13
direct	11539 Jan 06 03:29	8° $\overline{\Omega}$ 19'40		morning rise	11539 Dec 16 12:57	20° κ 34'12	
asc. node	11539 Jan 10 09:54	9° $\overline{\Omega}$ 26'01		direct	11539 Dec 18 21:10	20° κ 18'31	
morning max el	11539 Jan 14 05:07	12° $\overline{\Omega}$ 17'28	18°24'40	morning max el	11539 Dec 28 05:16	24° κ 48'09	19°15'12
	11539 Jan 26 00:51	0° \approx		asc. node	11539 Dec 28 07:00	24° κ 52'21	
morning set	11539 Jan 30 01:42	7° \approx 37'16			11540 Jan 01 15:21	0° $\overline{\Omega}$	
superior conj	11539 Feb 08 04:58	24° \approx 53'47	0°35'19	morning set	11540 Jan 14 02:43	22° $\overline{\Omega}$ 02'41	
minimum elong	11539 Feb 08 07:20	25° \approx 04'41	0°35'25		11540 Jan 18 02:22	0° \approx	
	11539 Feb 11 00:23	0° κ		superior conj	11540 Jan 22 07:11	8° \approx 15'46	1°02'23
desc. node	11539 Feb 12 18:49	3° κ 08'47		minimum elong	11540 Jan 22 10:09	8° \approx 30'10	1°02'36
max. Earth dist.	11539 Feb 15 17:04	8° κ 14'31	1.40647 AU	max. Earth dist.	11540 Jan 28 23:17	20° \approx 46'40	1.38430 AU
evening rise	11539 Feb 20 02:48	15° κ 39'29		desc. node	11540 Jan 30 15:34	23° \approx 47'22	
	11539 Mar 01 03:37	0° Υ		evening rise	11540 Feb 01 17:32	27° \approx 27'00	
	11539 Mar 23 01:20	0° $\overline{\Omega}$			11540 Feb 03 05:02	0° κ	
evening max el	11539 Mar 26 12:41	3° $\overline{\Omega}$ 43'47	23°31'11		11540 Feb 22 15:26	0° Υ	
retrograde	11539 Apr 06 05:44	10° $\overline{\Omega}$ 02'45		evening max el	11540 Mar 08 02:21	17° Υ 34'46	24°50'10
asc. node	11539 Apr 08 07:27	9° $\overline{\Omega}$ 42'37		retrograde	11540 Mar 19 20:46	24° Υ 25'58	
evening set	11539 Apr 11 08:57	7° $\overline{\Omega}$ 53'36		evening set	11540 Mar 25 11:57	22° Υ 05'00	
min. Earth dist.	11539 Apr 16 04:49	2° $\overline{\Omega}$ 14'00	0.68628 AU	asc. node	11540 Mar 25 04:45	22° Υ 19'54	
inferior conj	11539 Apr 16 18:45	1° $\overline{\Omega}$ 26'08	2°23'33	min. Earth dist.	11540 Mar 29 23:59	17° Υ 00'51	0.68092 AU
minimum elong	11539 Apr 16 16:36	1° $\overline{\Omega}$ 33'31	2°22'41	inferior conj	11540 Mar 31 01:58	15° Υ 34'55	1°46'22
	11539 Apr 17 20:02	30° κ Υ		minimum elong	11540 Mar 30 23:54	15° Υ 41'44	1°45'34
morning rise	11539 Apr 22 00:12	25° Υ 20'55		morning rise	11540 Apr 05 12:04	9° Υ 37'38	
direct	11539 Apr 26 05:37	23° Υ 40'47		direct	11540 Apr 09 05:07	8° Υ 18'35	
morning max el	11539 May 04 10:52	28° Υ 22'31	20°46'33	morning max el	11540 Apr 16 11:58	12° Υ 21'01	19°38'10
	11539 May 06 00:12	0° $\overline{\Omega}$		desc. node	11540 Apr 27 17:00	26° Υ 41'01	
desc. node	11539 May 11 20:14	7° $\overline{\Omega}$ 07'45		greatest brilliancy	11540 Apr 29 05:09	28° Υ 52'37	-0.6m
	11539 May 27 17:17	0° Π			11540 Apr 29 23:29	0° $\overline{\Omega}$	
morning set	11539 Jun 03 06:19	10° Π 02'38		morning set	11540 May 12 05:56	18° $\overline{\Omega}$ 33'42	
max. Earth dist.	11539 Jun 11 10:54	23° Π 02'00	1.43267 AU		11540 May 19 15:01	0° Π	
	11539 Jun 15 17:05	0° $\overline{\Omega}$		max. Earth dist.	11540 May 23 23:41	6° Π 51'32	1.44760 AU
superior conj	11539 Jun 18 06:04	4° $\overline{\Omega}$ 14'11	-1°59'21	superior conj	11540 May 28 12:39	14° Π 05'46	-2°12'45
minimum elong	11539 Jun 18 12:18	4° $\overline{\Omega}$ 40'21	1°59'38	minimum elong	11540 May 28 14:22	14° Π 12'39	2°13'25
evening rise	11539 Jun 30 07:24	25° $\overline{\Omega}$ 07'20			11540 Jun 07 05:57	0° $\overline{\Omega}$	
	11539 Jul 03 01:34	0° Ω		evening rise	11540 Jun 11 07:38	6° $\overline{\Omega}$ 49'03	
asc. node	11539 Jul 05 05:52	3° Ω 49'21		asc. node	11540 Jun 21 02:49	23° $\overline{\Omega}$ 05'28	
evening max el	11539 Jul 17 00:20	21° Ω 09'33	18°03'56		11540 Jun 25 18:18	0° Ω	
retrograde	11539 Jul 23 14:14	24° Ω 32'29		evening max el	11540 Jun 29 14:22	4° Ω 33'23	18°11'09
evening set	11539 Jul 26 03:06	24° Ω 02'05		retrograde	11540 Jul 05 22:54	7° Ω 54'22	

evening set	11540 Jul 08 19:54	7° Ω 10'34		evening max el	11541 Jun 13 02:51	18° Ω 09'33	18°36'20
inferior conj	11540 Jul 14 21:22	1° Ω 50'46	2°32'23	retrograde	11541 Jun 19 15:26	21° Ω 42'18	
minimum elong	11540 Jul 14 23:53	1° Ω 43'48	2°31'07	evening set	11541 Jun 22 20:38	20° Ω 43'34	
	11540 Jul 16 13:12	30° κ Ω		inferior conj	11541 Jun 28 12:39	15° Ω 07'27	3°01'37
min. Earth dist.	11540 Jul 17 12:10	28° Ω 57'37	0.63439 AU	minimum elong	11541 Jun 28 14:18	15° Ω 02'24	3°00'39
morning rise	11540 Jul 21 02:14	25° Ω 36'38		min. Earth dist.	11541 Jun 30 12:54	12° Ω 40'49	0.65360 AU
desc. node	11540 Jul 24 16:29	23° Ω 35'09		morning rise	11541 Jul 04 07:04	8° Ω 46'30	
direct	11540 Jul 27 18:43	23° Ω 03'01		direct	11541 Jul 10 18:45	6° Ω 04'23	
	11540 Aug 09 14:13	0° Ω		desc. node	11541 Jul 11 13:41	6° Ω 06'33	
morning max el	11540 Aug 10 16:44	1° Ω 04'56	27°45'56	morning max el	11541 Jul 24 03:34	13° Ω 57'36	27°01'44
	11540 Sep 01 00:00	0° η			11541 Aug 06 03:36	0° Ω	
morning set	11540 Sep 14 09:32	24° η 25'49			11541 Aug 24 16:27	0° η	
asc. node	11540 Sep 17 03:27	0° Ω 01'48		morning set	11541 Aug 28 19:05	7° η 42'23	
	11540 Sep 17 03:07	0° Ω		max. Earth dist.	11541 Sep 02 02:45	16° η 14'29	1.33730 AU
max. Earth dist.	11540 Sep 19 09:46	4° Ω 46'44	1.32426 AU	asc. node	11541 Sep 04 00:10	20° η 06'43	
superior conj	11540 Sep 22 05:22	10° Ω 49'32	0°48'03	superior conj	11541 Sep 06 07:20	24° η 54'22	0°22'15
minimum elong	11540 Sep 22 03:22	10° Ω 38'41	0°47'45	minimum elong	11541 Sep 06 06:13	24° η 48'28	0°21'54
evening rise	11540 Sep 29 02:55	25° Ω 49'09			11541 Sep 08 17:02	0° Ω	
	11540 Oct 01 02:16	0° η		evening rise	11541 Sep 13 13:26	10° Ω 19'47	
	11540 Oct 18 23:39	0° η			11541 Sep 23 17:08	0° η	
desc. node	11540 Oct 20 13:34	1° η 47'18		evening max el	11541 Oct 03 22:41	13° η 47'19	21°43'56
evening max el	11540 Oct 22 09:07	3° η 38'56	23°23'03	desc. node	11541 Oct 07 10:54	16° η 46'30	
retrograde	11540 Nov 04 18:39	10° η 19'22		retrograde	11541 Oct 16 08:33	19° η 57'40	
evening set	11540 Nov 09 02:36	9° η 38'38		evening set	11541 Oct 19 06:33	19° η 38'26	
min. Earth dist.	11540 Nov 15 18:56	6° η 30'25	0.55354 AU	inferior conj	11541 Oct 28 05:22	15° η 42'05	-5°23'09
inferior conj	11540 Nov 17 11:21	5° η 31'24	-5°49'54	minimum elong	11541 Oct 27 21:39	15° η 52'53	5°21'23
minimum elong	11540 Nov 17 11:42	5° η 30'53	5°49'16	min. Earth dist.	11541 Oct 28 01:32	15° η 47'27	0.54618 AU
morning rise	11540 Nov 25 22:32	1° η 39'38		morning rise	11541 Nov 05 13:55	11° η 54'27	
direct	11540 Nov 28 19:52	1° η 19'26		direct	11541 Nov 09 05:20	11° η 25'34	
morning max el	11540 Dec 09 16:17	6° η 28'24	20°28'44	morning max el	11541 Nov 21 13:46	17° η 17'57	22°03'16
asc. node	11540 Dec 14 04:01	11° η 34'28		asc. node	11541 Dec 01 01:00	29° η 16'31	
	11540 Dec 25 02:01	0° Ω			11541 Dec 01 11:57	0° η	
morning set	11540 Dec 28 09:35	6° Ω 42'04		morning set	11541 Dec 12 19:52	21° η 28'15	
					11541 Dec 16 20:08	0° Ω	
superior conj	11541 Jan 04 22:12	22° Ω 12'39	1°21'42	superior conj	11541 Dec 19 22:17	6° Ω 33'48	1°33'40
minimum elong	11541 Jan 05 00:43	22° Ω 25'23	1°22'09	minimum elong	11541 Dec 19 23:48	6° Ω 41'48	1°34'19
	11541 Jan 08 20:00	0° \approx		max. Earth dist.	11541 Dec 23 20:31	14° Ω 42'12	1.34403 AU
max. Earth dist.	11541 Jan 10 07:03	2° \approx 49'49	1.36278 AU	evening rise	11541 Dec 28 04:50	23° Ω 18'44	
evening rise	11541 Jan 14 03:23	10° \approx 03'09			11541 Dec 31 18:14	0° \approx	
desc. node	11541 Jan 16 12:22	14° \approx 20'26		desc. node	11542 Jan 03 09:14	4° \approx 43'18	
	11541 Jan 25 20:21	0° η			11542 Jan 19 12:10	0° η	
	11541 Feb 17 06:02	0° η		evening max el	11542 Feb 01 05:22	15° η 06'18	26°55'11
evening max el	11541 Feb 18 15:53	1° η 25'03	26°00'37	retrograde	11542 Feb 14 11:34	22° η 29'32	
retrograde	11541 Mar 03 06:59	8° η 37'36		evening set	11542 Feb 21 00:53	19° η 56'08	
evening set	11541 Mar 09 09:54	6° η 08'03		min. Earth dist.	11542 Feb 25 00:40	16° η 01'04	0.65793 AU
asc. node	11541 Mar 12 02:04	3° η 29'24		asc. node	11542 Feb 26 23:24	13° η 46'22	
min. Earth dist.	11541 Mar 13 15:19	1° η 38'59	0.67137 AU	inferior conj	11542 Feb 27 02:45	13° η 36'40	0°02'44
	11541 Mar 14 23:04	30° κ η		minimum elong	11542 Feb 27 02:39	13° η 36'55	0°02'58
inferior conj	11541 Mar 15 05:22	29° η 40'18	0°59'30	transit middle	11542 Feb 27 02:39	13° η 36'55	0°02'58
minimum elong	11541 Mar 15 03:57	29° η 44'43	0°59'01	transit begin	11542 Feb 26 23:45	13° η 45'21	
morning rise	11541 Mar 20 22:40	23° η 52'46		transit end	11542 Feb 27 05:34	13° η 28'30	
direct	11541 Mar 24 04:26	22° η 52'58		morning rise	11542 Mar 05 05:45	8° η 00'53	
morning max el	11541 Mar 30 20:38	26° η 29'03	18°45'22	direct	11542 Mar 08 01:30	7° η 17'24	
	11541 Apr 03 00:17	0° η		morning max el	11542 Mar 14 11:01	10° η 39'48	18°09'06
desc. node	11541 Apr 14 13:43	16° η 38'51			11542 Mar 28 03:51	0° η	
morning set	11541 Apr 21 16:56	27° η 44'39		desc. node	11542 Apr 01 10:24	6° η 53'55	
	11541 Apr 23 03:37	0° Ω		morning set	11542 Apr 02 06:38	8° η 15'47	
max. Earth dist.	11541 May 06 17:46	21° Ω 13'12	1.45585 AU		11542 Apr 15 21:17	0° Ω	
superior conj	11541 May 08 00:16	23° Ω 12'37	-2°07'15	superior conj	11542 Apr 17 07:44	2° Ω 15'21	-1°42'05
minimum elong	11541 May 07 18:28	22° Ω 49'53	2°07'33	minimum elong	11542 Apr 16 22:18	1° Ω 38'21	1°41'31
	11541 May 12 07:58	0° Π		max. Earth dist.	11542 Apr 19 13:41	5° Ω 46'46	1.45666 AU
evening rise	11541 May 23 08:12	17° Π 31'12		evening rise	11542 May 03 10:02	27° Ω 19'43	
greatest brilliancy	11541 May 29 20:35	27° Π 58'41	-0.9m		11542 May 05 03:22	0° Π	
	11541 May 31 03:03	0° Ω		greatest brilliancy	11542 May 15 12:32	15° Π 56'43	-0.7m
asc. node	11541 Jun 07 23:51	11° Ω 54'57					

asc. node	11542 May 25 20:57	0°☿08'23		max. Earth dist.	11543 Apr 02 08:38	20°♊15'20	1.45012 AU
	11542 May 25 18:01	0°☿			11543 Apr 08 14:06	0°♊	
evening max el	11542 May 27 11:23	1°☿51'30	19°18'38	evening rise	11543 Apr 12 22:26	6°♊41'59	
retrograde	11542 Jun 03 12:24	5°☿48'40			11543 Apr 28 11:51	0°♊	
evening set	11542 Jun 07 02:11	4°☿34'11		evening max el	11543 May 10 14:35	15°♊35'53	20°16'22
	11542 Jun 11 12:32	30°♋♊		asc. node	11543 May 12 18:09	17°♊34'13	
inferior conj	11542 Jun 12 12:14	28°♊43'24	3°14'36	retrograde	11543 May 18 11:07	20°♊07'41	
minimum elong	11542 Jun 12 12:46	28°♊41'39	3°13'50	evening set	11543 May 22 10:16	18°♊37'11	
min. Earth dist.	11542 Jun 13 21:38	26°♊54'24	0.66888 AU	inferior conj	11543 May 27 17:18	12°♊33'23	3°14'15
morning rise	11542 Jun 17 22:52	22°♊21'18		minimum elong	11543 May 27 16:46	12°♊35'14	3°13'33
direct	11542 Jun 24 01:35	19°♊40'48		min. Earth dist.	11543 May 28 12:30	11°♊27'51	0.67969 AU
desc. node	11542 Jun 28 10:50	20°♊48'30		morning rise	11543 Jun 01 22:57	6°♊13'43	
morning max el	11542 Jul 06 14:23	27°♊10'51	25°52'33	direct	11543 Jun 07 14:09	3°♊43'40	
	11542 Jul 09 05:41	0°☿		desc. node	11543 Jun 15 07:55	7°♊12'46	
	11542 Jul 30 19:07	0°♊		morning max el	11543 Jun 19 00:12	10°♊34'39	24°28'03
morning set	11542 Aug 11 15:06	20°♊19'50			11543 Jul 04 10:41	0°☿	
max. Earth dist.	11542 Aug 15 09:15	27°♊22'33	1.35508 AU		11543 Jul 23 11:56	0°♊	
	11542 Aug 16 17:54	0°♎		morning set	11543 Jul 24 17:01	2°♊06'03	
				max. Earth dist.	11543 Jul 28 07:46	8°♊31'06	1.37663 AU
superior conj	11542 Aug 21 01:23	8°♎33'25	-0°07'52	superior conj	11543 Aug 04 08:13	21°♊38'22	-0°40'57
minimum elong	11542 Aug 21 01:51	8°♎35'52	0°08'06	minimum elong	11543 Aug 04 10:57	21°♊51'36	0°40'58
behind sun begin	11542 Aug 20 20:31	8°♎08'51		asc. node	11543 Aug 08 17:41	0°♎15'09	
behind sun end	11542 Aug 21 07:12	9°♎02'55			11543 Aug 08 14:37	0°♎	
asc. node	11542 Aug 21 20:55	10°♎12'32		evening rise	11543 Aug 12 23:20	8°♎41'45	
evening rise	11542 Aug 28 21:05	24°♎39'41			11543 Aug 24 19:19	0°♎	
	11542 Aug 31 12:01	0°♎		evening max el	11543 Aug 29 15:04	5°♎56'41	19°14'17
evening max el	11542 Sep 15 23:53	24°♎28'37	20°18'58	retrograde	11543 Sep 07 19:55	10°♎31'46	
desc. node	11542 Sep 24 08:16	29°♎35'55		evening set	11543 Sep 09 16:10	10°♎21'31	
retrograde	11542 Sep 26 21:05	29°♎53'02		desc. node	11543 Sep 11 05:40	9°♎57'42	
evening set	11542 Sep 28 21:49	29°♎42'34		inferior conj	11543 Sep 18 05:29	6°♎11'24	-2°11'00
inferior conj	11542 Oct 07 22:53	25°♎45'18	-4°01'34	minimum elong	11543 Sep 17 23:44	6°♎20'58	2°08'46
minimum elong	11542 Oct 07 13:07	25°♎59'40	3°58'17	min. Earth dist.	11543 Sep 20 22:03	4°♎24'16	0.55916 AU
min. Earth dist.	11542 Oct 09 09:59	24°♎53'40	0.54807 AU	morning rise	11543 Sep 26 04:32	1°♎33'36	
morning rise	11542 Oct 16 03:39	21°♎40'36		direct	11543 Oct 01 11:29	0°♎29'19	
direct	11542 Oct 20 14:44	20°♎57'37		morning max el	11543 Oct 15 13:37	7°♎38'21	25°33'59
morning max el	11542 Nov 03 02:19	27°♎32'09	23°50'11		11543 Nov 01 01:21	0°♎	
	11542 Nov 05 12:38	0°♎		asc. node	11543 Nov 04 18:48	6°♎45'40	
asc. node	11542 Nov 17 21:56	17°♎44'21		morning set	11543 Nov 11 19:08	20°♎58'54	
	11542 Nov 24 07:49	0°♏			11543 Nov 15 22:17	0°♏	
morning set	11542 Nov 27 07:39	6°♏15'53					
superior conj	11542 Dec 04 04:33	21°♏10'49	1°38'53	superior conj	11543 Nov 18 14:28	5°♏55'17	1°37'51
minimum elong	11542 Dec 04 04:54	21°♏12'45	1°39'35	minimum elong	11543 Nov 18 13:44	5°♏51'12	1°38'27
max. Earth dist.	11542 Dec 06 17:46	26°♏40'12	1.32939 AU	max. Earth dist.	11543 Nov 19 21:59	8°♏49'04	1.31943 AU
	11542 Dec 08 07:33	0°♏		evening rise	11543 Nov 25 16:52	21°♏14'05	
evening rise	11542 Dec 11 18:24	7°♏05'27			11543 Nov 30 01:33	0°♏	
desc. node	11542 Dec 21 06:11	24°♏50'50		desc. node	11543 Dec 08 03:13	14°♏35'25	
	11542 Dec 24 07:24	0°♏			11543 Dec 18 08:12	0°♏	
evening max el	11543 Jan 14 18:01	28°♏28'53	27°26'42	evening max el	11543 Dec 28 03:58	11°♏20'15	27°28'50
	11543 Jan 16 09:48	0°♏		retrograde	11544 Jan 11 00:46	18°♏38'43	
retrograde	11543 Jan 28 09:53	5°♏53'14		evening set	11544 Jan 18 00:19	16°♏19'38	
evening set	11543 Feb 04 06:39	3°♏22'50		min. Earth dist.	11544 Jan 21 17:53	13°♏22'20	0.62141 AU
min. Earth dist.	11543 Feb 08 02:06	29°♏59'07	0.64104 AU	inferior conj	11544 Jan 24 16:47	10°♏37'08	-2°17'55
	11543 Feb 08 01:45	30°♋♏		minimum elong	11544 Jan 24 21:28	10°♏26'12	2°15'28
inferior conj	11543 Feb 10 15:34	27°♏18'16	-1°03'34	morning rise	11544 Jan 31 21:11	5°♏32'32	
minimum elong	11543 Feb 10 17:33	27°♏13'03	1°02'17	asc. node	11544 Jan 31 17:59	5°♏35'13	
asc. node	11543 Feb 13 20:42	24°♏09'49		direct	11544 Feb 03 02:31	5°♏10'29	
morning rise	11543 Feb 17 06:29	21°♏56'40		morning max el	11544 Feb 09 21:35	8°♏37'40	17°48'15
direct	11543 Feb 19 17:55	21°♏25'49			11544 Feb 23 23:04	0°♏	
morning max el	11543 Feb 26 04:22	24°♏45'39	17°49'49	morning set	11544 Feb 25 17:07	3°♏06'43	
	11543 Mar 02 12:46	0°♏		desc. node	11544 Mar 05 03:43	17°♏56'20	
morning set	11543 Mar 15 00:32	20°♏08'59					
desc. node	11543 Mar 19 07:04	27°♏21'14		superior conj	11544 Mar 08 01:21	22°♏53'10	-0°22'05
	11543 Mar 20 21:04	0°♏		minimum elong	11544 Mar 07 23:14	22°♏44'13	0°21'36
					11544 Mar 12 07:47	0°♏	
superior conj	11543 Mar 28 04:48	12°♏00'47	-1°03'52	max. Earth dist.	11544 Mar 15 00:55	4°♏25'34	1.43696 AU
minimum elong	11543 Mar 27 22:01	11°♏33'23	1°03'02	evening rise	11544 Mar 22 12:53	16°♏18'06	

	11544 Mar 31 13:15	0°♄		evening rise	11545 Mar 02 18:27	26°♄37'58	
evening max el	11544 Apr 22 12:12	29°♄21'36	21°26'36		11545 Mar 04 21:07	0°♄	
	11544 Apr 23 03:46	0°♄			11545 Mar 25 07:14	0°♄	
asc. node	11544 Apr 28 15:22	3°♄58'12		evening max el	11545 Apr 05 05:10	13°♄08'22	22°44'50
retrograde	11544 May 01 09:32	4°♄34'36		retrograde	11545 Apr 15 06:03	19°♄04'02	
evening set	11544 May 05 18:59	2°♄48'14		asc. node	11545 Apr 15 12:39	19°♄03'40	
	11544 May 08 11:41	30°♄8		evening set	11545 Apr 20 02:41	17°♄02'34	
inferior conj	11544 May 11 01:30	26°♄33'16	3°02'33	inferior conj	11545 Apr 25 10:47	10°♄38'51	2°40'37
minimum elong	11544 May 11 00:05	26°♄38'11	3°01'47	minimum elong	11545 Apr 25 08:47	10°♄45'45	2°39'46
min. Earth dist.	11544 May 11 07:18	26°♄13'04	0.68585 AU	min. Earth dist.	11545 Apr 25 03:52	11°♄02'52	0.68741 AU
morning rise	11544 May 16 04:59	20°♄18'17		morning rise	11545 Apr 30 14:46	4°♄29'56	
direct	11544 May 21 07:16	18°♄05'08		direct	11545 May 05 03:44	2°♄37'25	
morning max el	11544 May 31 10:31	24°♄05'49	22°58'18	morning max el	11545 May 14 00:33	7°♄45'54	21°32'00
desc. node	11544 Jun 01 04:53	24°♄52'59		desc. node	11545 May 19 01:44	13°♄27'56	
	11544 Jun 05 16:31	0°♄			11545 May 31 03:57	0°♄	
	11544 Jun 26 20:24	0°♄		morning set	11545 Jun 14 20:34	22°♄20'59	
morning set	11544 Jul 04 19:52	12°♄48'51			11545 Jun 19 14:50	0°♄	
max. Earth dist.	11544 Jul 09 05:14	20°♄13'01	1.39979 AU	max. Earth dist.	11545 Jun 21 07:40	2°♄47'15	1.42171 AU
	11544 Jul 14 18:54	0°♄					
				superior conj	11545 Jun 28 19:44	15°♄27'34	-1°45'20
superior conj	11544 Jul 16 23:53	4°♄00'16	-1°14'43	minimum elong	11545 Jun 29 02:26	15°♄56'35	1°45'22
minimum elong	11544 Jul 17 05:07	4°♄24'10	1°14'36		11545 Jul 07 00:19	0°♄	
asc. node	11544 Jul 25 14:29	20°♄11'05		evening rise	11545 Jul 09 22:38	5°♄19'39	
evening rise	11544 Jul 26 17:11	22°♄18'39		asc. node	11545 Jul 12 11:19	9°♄55'31	
	11544 Jul 30 18:50	0°♄			11545 Jul 25 05:55	0°♄	
evening max el	11544 Aug 11 17:44	18°♄09'25	18°30'58	evening max el	11545 Jul 26 03:43	0°♄56'52	18°08'08
retrograde	11544 Aug 19 13:18	22°♄04'58		retrograde	11545 Aug 02 01:19	4°♄27'39	
evening set	11544 Aug 21 14:10	21°♄49'49		evening set	11545 Aug 04 09:34	4°♄03'44	
desc. node	11544 Aug 28 03:02	18°♄17'01			11545 Aug 10 12:44	30°♄	
inferior conj	11544 Aug 29 08:55	17°♄19'41	-0°23'11	inferior conj	11545 Aug 11 09:43	29°♄12'50	1°04'06
minimum elong	11544 Aug 29 08:00	17°♄21'27	0°23'02	minimum elong	11545 Aug 11 11:38	29°♄08'28	1°02'59
min. Earth dist.	11544 Sep 01 15:29	14°♄47'43	0.57730 AU	min. Earth dist.	11545 Aug 14 16:32	26°♄15'03	0.59925 AU
morning rise	11544 Sep 05 22:22	12°♄04'43		desc. node	11545 Aug 15 00:23	25°♄58'17	
direct	11544 Sep 11 22:25	10°♄33'23		morning rise	11545 Aug 18 10:36	23°♄26'33	
morning max el	11544 Sep 26 06:06	18°♄07'38	26°56'58	direct	11545 Aug 24 22:09	21°♄26'47	
	11544 Oct 06 04:32	0°♄		morning max el	11545 Sep 08 06:05	29°♄18'58	27°46'14
asc. node	11544 Oct 21 15:37	26°♄11'46			11545 Sep 08 22:28	0°♄	
	11544 Oct 23 12:54	0°♄			11545 Sep 30 03:38	0°♄	
morning set	11544 Oct 26 04:37	5°♄32'56		asc. node	11545 Oct 08 12:21	15°♄55'24	
				morning set	11545 Oct 10 10:22	19°♄53'14	
superior conj	11544 Nov 02 02:04	20°♄41'11	1°30'58		11545 Oct 15 03:08	0°♄	
minimum elong	11544 Nov 02 00:27	20°♄32'11	1°31'21	max. Earth dist.	11545 Oct 16 15:20	3°♄20'03	1.31416 AU
max. Earth dist.	11544 Nov 02 06:24	21°♄05'20	1.31434 AU				
	11544 Nov 06 07:00	0°♄		superior conj	11545 Oct 17 13:28	5°♄22'56	1°18'31
evening rise	11544 Nov 08 21:40	5°♄37'50		minimum elong	11545 Oct 17 11:19	5°♄11'01	1°18'36
	11544 Nov 21 16:19	0°♄		evening rise	11545 Oct 24 06:33	20°♄10'33	
desc. node	11544 Nov 24 00:18	3°♄48'02			11545 Oct 29 00:02	0°♄	
evening max el	11544 Dec 09 08:31	23°♄27'45	26°57'09	desc. node	11545 Nov 10 21:29	22°♄16'20	
	11544 Dec 19 09:20	0°♄			11545 Nov 16 18:38	0°♄	
retrograde	11544 Dec 23 06:46	0°♄37'32		evening max el	11545 Nov 21 05:04	4°♄43'09	25°51'58
	11544 Dec 27 02:12	30°♄8		retrograde	11545 Dec 05 02:38	11°♄44'52	
evening set	11544 Dec 30 02:17	28°♄38'34		evening set	11545 Dec 11 08:10	10°♄13'56	
min. Earth dist.	11545 Jan 02 22:54	25°♄58'57	0.60023 AU	min. Earth dist.	11545 Dec 15 17:38	7°♄37'57	0.57931 AU
inferior conj	11545 Jan 06 02:55	23°♄24'00	-3°36'05	inferior conj	11545 Dec 18 18:30	5°♄29'10	-4°48'49
minimum elong	11545 Jan 06 10:14	23°♄09'03	3°32'54	minimum elong	11545 Dec 19 02:43	5°♄14'37	4°46'07
morning rise	11545 Jan 13 20:57	18°♄39'41		morning rise	11545 Dec 26 23:48	1°♄07'29	
direct	11545 Jan 15 23:26	18°♄22'47		direct	11545 Dec 29 04:07	0°♄52'23	
asc. node	11545 Jan 17 15:13	18°♄33'43		asc. node	11546 Jan 04 12:23	3°♄09'32	
morning max el	11545 Jan 23 11:11	22°♄06'29	18°05'32	morning max el	11546 Jan 06 17:27	5°♄02'10	18°43'27
	11545 Jan 29 13:22	0°♄			11546 Jan 22 09:18	0°♄	
morning set	11545 Feb 08 02:04	16°♄49'48		morning set	11546 Jan 22 22:22	1°♄03'32	
	11545 Feb 15 04:54	0°♄					
				superior conj	11546 Jan 31 14:58	17°♄49'59	0°47'45
superior conj	11545 Feb 17 22:02	4°♄53'07	0°16'15	minimum elong	11546 Jan 31 17:46	18°♄03'07	0°47'53
minimum elong	11545 Feb 17 23:19	4°♄58'53	0°16'25	desc. node	11546 Feb 06 21:02	29°♄15'28	
desc. node	11545 Feb 20 00:21	8°♄35'26			11546 Feb 07 07:07	0°♄	
max. Earth dist.	11545 Feb 25 13:04	18°♄03'50	1.41861 AU	max. Earth dist.	11546 Feb 07 20:56	1°♄00'47	1.39708 AU

evening rise	11546 Feb 11 21:01	7° X 53'57		11547 Jan 30 15:09	0° X	
	11546 Feb 25 20:55	0° Y		11547 Feb 19 22:46	0° Y	
evening max el	11546 Mar 18 19:21	26° Y 57'31	24°05'20	evening max el	11547 Mar 01 08:38	10° Y 47'49 25°21'32
	11546 Mar 22 04:08	0° Z		retrograde	11547 Mar 13 12:43	17° Y 50'18
retrograde	11546 Mar 29 23:28	3° Z 31'25		evening set	11547 Mar 19 08:57	15° Y 25'01
asc. node	11546 Apr 02 09:58	2° Z 36'59		asc. node	11547 Mar 20 07:18	14° Y 34'14
evening set	11546 Apr 04 07:53	1° Z 16'36		min. Earth dist.	11547 Mar 23 17:57	10° Y 35'51 0.67733 AU
	11546 Apr 05 15:51	30° R Y		inferior conj	11547 Mar 25 01:07	8° Y 54'58 1°27'41
min. Earth dist.	11546 Apr 09 00:07	25° Y 52'24	0.68452 AU	minimum elong	11547 Mar 24 23:16	9° Y 01'00 1°26'59
inferior conj	11546 Apr 09 19:17	24° Y 47'26	2°08'59	morning rise	11547 Mar 30 13:59	3° Y 01'38
minimum elong	11546 Apr 09 17:07	24° Y 54'48	2°08'06	direct	11547 Apr 03 01:59	1° Y 51'16
morning rise	11546 Apr 15 02:26	18° Y 45'41		morning max el	11547 Apr 10 01:50	5° Y 41'16 19°13'42
direct	11546 Apr 19 02:26	17° Y 14'49		desc. node	11547 Apr 22 19:16	22° Y 27'22
morning max el	11546 Apr 26 21:19	21° Y 38'12	20°15'46	greatest brilliancy	11547 Apr 22 23:36	22° Y 43'31 -0.7m
	11546 May 03 22:23	0° Z			11547 Apr 27 19:07	0° Z
desc. node	11546 May 05 22:32	2° Z 43'05		morning set	11547 May 04 02:02	9° Z 39'35
	11546 May 24 08:51	0° II			11547 May 17 03:46	0° II
morning set	11546 May 25 00:27	1° II 00'06		max. Earth dist.	11547 May 17 07:33	0° II 14'52 1.45192 AU
max. Earth dist.	11546 Jun 03 16:47	16° II 12'07	1.43974 AU			
				superior conj	11547 May 20 13:17	5° II 21'39 -2°12'57
superior conj	11546 Jun 09 16:01	25° II 53'03	-2°07'01	minimum elong	11547 May 20 11:50	5° II 15'53 2°13'35
minimum elong	11546 Jun 09 20:57	26° II 13'20	2°07'30	evening rise	11547 Jun 04 01:24	28° II 49'36
	11546 Jun 12 03:41	0° S			11547 Jun 04 18:29	0° S
evening rise	11546 Jun 22 10:58	17° S 33'28		asc. node	11547 Jun 16 05:12	18° S 29'20
asc. node	11546 Jun 29 08:13	29° S 23'37		evening max el	11547 Jun 23 06:54	27° S 39'14 18°19'47
	11546 Jun 29 16:54	0° Q			11547 Jun 26 04:59	0° Q
evening max el	11546 Jul 09 17:13	14° Q 09'35	18°04'43	retrograde	11547 Jun 29 16:15	1° Q 03'48
retrograde	11546 Jul 16 03:47	17° Q 30'21		evening set	11547 Jul 02 16:36	0° Q 13'59
evening set	11546 Jul 18 20:01	16° Q 54'36			11547 Jul 03 02:17	30° R S
inferior conj	11546 Jul 25 04:40	11° Q 44'50	2°06'41	inferior conj	11547 Jul 08 13:37	24° S 47'16 2°46'58
minimum elong	11546 Jul 25 07:21	11° Q 37'52	2°05'19	minimum elong	11547 Jul 08 15:50	24° S 40'52 2°45'50
min. Earth dist.	11546 Jul 28 02:48	8° Q 43'45	0.62193 AU	min. Earth dist.	11547 Jul 10 22:29	22° S 03'18 0.64291 AU
morning rise	11546 Jul 31 16:27	5° Q 37'40		morning rise	11547 Jul 14 13:43	18° S 29'14
desc. node	11546 Aug 01 21:42	4° Q 49'51		desc. node	11547 Jul 19 18:58	15° S 57'12
direct	11546 Aug 07 08:55	3° Q 13'50		direct	11547 Jul 21 04:49	15° S 50'21
morning max el	11546 Aug 21 12:21	11° Q 16'01	27°56'47	morning max el	11547 Aug 03 22:09	23° S 51'11 27°30'47
	11546 Sep 05 06:20	0° P			11547 Aug 09 10:15	0° Q
	11546 Sep 22 11:48	0° U			11547 Aug 29 15:08	0° P
morning set	11546 Sep 24 10:19	3° U 54'14		morning set	11547 Sep 08 02:02	17° P 29'39
asc. node	11546 Sep 25 09:02	5° U 50'53		asc. node	11547 Sep 12 05:44	25° P 53'45
max. Earth dist.	11546 Sep 29 20:49	15° U 22'10	1.31905 AU	max. Earth dist.	11547 Sep 12 19:01	27° P 02'44 1.32910 AU
					11547 Sep 14 04:49	0° U
superior conj	11546 Oct 01 22:50	19° U 55'02	1°00'41			
minimum elong	11546 Oct 01 20:37	19° U 42'53	1°00'30	superior conj	11547 Sep 16 04:12	4° U 12'04 0°37'42
	11546 Oct 06 12:48	0° M		minimum elong	11547 Sep 16 02:29	4° U 02'54 0°37'21
evening rise	11546 Oct 08 17:33	4° M 46'31		evening rise	11547 Sep 23 04:49	19° U 20'51
	11546 Oct 21 23:04	0° X			11547 Sep 28 08:53	0° M
desc. node	11546 Oct 28 18:44	9° X 42'36		evening max el	11547 Oct 15 04:27	25° M 16'11 22°40'01
evening max el	11546 Nov 02 17:44	15° X 10'36	24°21'04	desc. node	11547 Oct 15 16:04	25° M 44'00
retrograde	11546 Nov 16 10:43	22° X 02'09			11547 Oct 21 11:29	0° X
evening set	11546 Nov 21 14:01	21° X 03'54		retrograde	11547 Oct 28 06:13	1° X 46'10
min. Earth dist.	11546 Nov 27 04:53	18° X 12'38	0.56130 AU	evening set	11547 Oct 31 22:46	1° X 16'25
inferior conj	11546 Nov 29 13:27	16° X 44'54	-5°39'32		11547 Nov 04 10:28	30° R M
minimum elong	11546 Nov 29 18:11	16° X 37'32	5°38'21	min. Earth dist.	11547 Nov 08 12:32	27° M 51'43 0.54934 AU
morning rise	11546 Dec 08 00:27	12° X 44'20		inferior conj	11547 Nov 09 14:16	27° M 15'07 -5°45'57
direct	11546 Dec 10 13:11	12° X 27'24		minimum elong	11547 Nov 09 10:54	27° M 19'55 5°45'08
morning max el	11546 Dec 20 12:28	17° X 12'48	19°43'44	morning rise	11547 Nov 18 00:34	23° M 26'57
asc. node	11546 Dec 22 09:27	19° X 10'13		direct	11547 Nov 21 05:01	23° M 03'41
	11546 Dec 29 21:44	0° Z		morning max el	11547 Dec 02 17:39	28° M 31'34 21°06'34
morning set	11547 Jan 07 02:13	15° Z 35'45			11547 Dec 04 04:58	0° X
	11547 Jan 14 05:21	0° W		asc. node	11547 Dec 09 06:28	6° X 19'54
				morning set	11547 Dec 22 10:50	0° Z 18'39
superior conj	11547 Jan 14 23:12	1° W 28'34	1°11'30		11547 Dec 22 07:14	0° Z
minimum elong	11547 Jan 15 02:05	1° W 42'46	1°11'49			
max. Earth dist.	11547 Jan 21 02:57	13° W 17'20	1.37488 AU	superior conj	11547 Dec 29 18:32	15° Z 36'59 1°27'38
evening rise	11547 Jan 24 20:17	20° W 03'09		minimum elong	11547 Dec 29 20:39	15° Z 47'59 1°28'10
desc. node	11547 Jan 24 17:48	19° W 52'04		max. Earth dist.	11548 Jan 03 12:22	25° Z 11'53 1.35442 AU

































































































































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evening rise	11548 Jan 07 13:18	2°♊57'33	minimum elong	11548 Dec 12 22:35	0°♊10'57	1°37'21
desc. node	11548 Jan 11 14:38	10°♊21'16		11548 Dec 12 20:32	0°♊	
	11548 Jan 23 14:21	0°♋	max. Earth dist.	11548 Dec 16 05:16	7°♊05'56	1.33734 AU
evening max el	11548 Feb 11 22:15	24°♋35'20 26°26'11	evening rise	11548 Dec 20 20:20	16°♊27'28	
	11548 Feb 18 18:15	0°♌	desc. node	11548 Dec 28 11:33	0°♊38'22	
retrograde	11548 Feb 24 20:46	1°♌54'01		11548 Dec 28 02:49	0°♊	
	11548 Mar 01 08:24	30°♌♋		11549 Jan 17 01:57	0°♋	
evening set	11548 Mar 02 04:11	29°♋22'22	evening max el	11549 Jan 24 11:51	8°♋11'03	27°11'51
asc. node	11548 Mar 06 04:39	25°♋15'04	retrograde	11549 Feb 06 22:42	15°♋34'57	
min. Earth dist.	11548 Mar 06 07:09	25°♋07'39 0.66610 AU	evening set	11549 Feb 13 15:34	13°♋02'17	
inferior conj	11548 Mar 08 02:16	22°♋57'07 0°36'36	min. Earth dist.	11549 Feb 17 13:29	9°♋20'45	0.65116 AU
minimum elong	11548 Mar 08 01:20	22°♋59'58 0°36'23	inferior conj	11549 Feb 19 20:24	6°♋48'25	-0°24'17
morning rise	11548 Mar 13 23:24	17°♋14'02	minimum elong	11549 Feb 19 21:06	6°♋46'28	0°23'37
direct	11548 Mar 17 00:40	16°♋21'37	asc. node	11549 Feb 21 01:59	5°♋27'25	
morning max el	11548 Mar 23 13:09	19°♋50'42 18°27'46	morning rise	11549 Feb 26 04:12	1°♋18'04	
	11548 Mar 31 12:19	0°♌	direct	11549 Feb 28 20:16	0°♋40'16	
desc. node	11548 Apr 08 15:58	12°♌32'57	morning max el	11549 Mar 07 05:07	4°♋00'12	17°58'44
morning set	11548 Apr 12 23:21	19°♌21'28		11549 Mar 24 18:21	0°♌	
	11548 Apr 19 17:12	0°♍	morning set	11549 Mar 25 01:36	0°♌29'51	
			desc. node	11549 Mar 26 12:37	2°♌53'56	
superior conj	11548 Apr 28 20:53	14°♍20'30 -1°58'44				
minimum elong	11548 Apr 28 12:42	13°♍48'31 1°58'39	superior conj	11549 Apr 08 08:16	23°♌36'36 -1°26'53	
max. Earth dist.	11548 Apr 29 02:19	14°♍41'45 1.45711 AU	minimum elong	11549 Apr 07 23:23	23°♌01'24 1°26'06	
	11548 May 08 20:58	0°♎	max. Earth dist.	11549 Apr 11 22:40	29°♌17'14 1.45480 AU	
evening rise	11548 May 14 15:37	9°♎05'56		11549 Apr 12 09:34	0°♍	
greatest brilliancy	11548 May 23 21:58	23°♎41'03 -0.8m	evening rise	11549 Apr 24 10:11	18°♍39'31	
	11548 May 28 01:18	0°♏		11549 May 01 20:00	0°♎	
asc. node	11548 Jun 02 02:16	7°♏04'30	greatest brilliancy	11549 May 08 08:06	9°♎45'33 -0.6m	
evening max el	11548 Jun 05 18:00	11°♏18'20 18°52'26	asc. node	11549 May 19 23:27	24°♎59'36	
retrograde	11548 Jun 12 10:52	14°♏59'47	evening max el	11549 May 20 00:29	25°♎02'13 19°41'28	
evening set	11548 Jun 15 19:41	13°♏54'26	retrograde	11549 May 27 08:49	29°♎12'33	
inferior conj	11548 Jun 21 08:47	8°♏12'10 3°08'53	evening set	11549 May 31 02:35	27°♎51'05	
minimum elong	11548 Jun 21 09:58	8°♏08'26 3°08'02	inferior conj	11549 Jun 05 11:00	21°♎54'35 3°15'55	
min. Earth dist.	11548 Jun 23 02:46	6°♏00'22 0.66062 AU	minimum elong	11549 Jun 05 11:04	21°♎54'22 3°15'12	
morning rise	11548 Jun 26 23:33	1°♏50'23	min. Earth dist.	11549 Jun 06 14:13	20°♎23'52 0.67409 AU	
	11548 Jun 29 16:21	30°♎♍	morning rise	11549 Jun 10 19:12	15°♎33'27	
direct	11548 Jul 03 08:00	29°♍07'28	direct	11549 Jun 16 17:20	12°♎56'35	
desc. node	11548 Jul 05 16:11	29°♍26'44	desc. node	11549 Jun 22 13:17	14°♎55'54	
	11548 Jul 07 06:29	0°♏	morning max el	11549 Jun 28 19:11	20°♎10'54 25°17'53	
morning max el	11548 Jul 16 08:53	6°♏52'35 26°34'48		11549 Jul 07 05:00	0°♏	
	11548 Aug 03 05:59	0°♐		11549 Jul 27 09:38	0°♐	
	11548 Aug 20 23:51	0°♑	morning set	11549 Aug 03 19:06	12°♐46'36	
morning set	11548 Aug 21 06:16	0°♑30'12	max. Earth dist.	11549 Aug 07 09:57	19°♐24'28 1.36397 AU	
max. Earth dist.	11548 Aug 25 07:14	8°♑19'03 1.34428 AU		11549 Aug 12 22:15	0°♑	
asc. node	11548 Aug 29 02:26	15°♑59'11				
			superior conj	11549 Aug 13 16:49	1°♑31'52 -0°21'37	
superior conj	11548 Aug 30 03:08	18°♑06'37 0°09'59	minimum elong	11549 Aug 13 18:12	1°♑38'41 0°21'46	
minimum elong	11548 Aug 30 02:37	18°♑03'52 0°09'39	asc. node	11549 Aug 15 23:11	6°♑03'53	
behind sun begin	11548 Aug 29 21:54	17°♑39'31	evening rise	11549 Aug 21 20:00	18°♑00'04	
behind sun end	11548 Aug 30 07:19	18°♑28'15		11549 Aug 27 22:43	0°♒	
	11548 Sep 04 19:05	0°♒	evening max el	11549 Sep 08 05:29	16°♒35'09 19°48'44	
evening rise	11548 Sep 06 14:20	3°♒47'08	retrograde	11549 Sep 18 08:57	21°♒38'04	
	11548 Sep 21 04:16	0°♓	desc. node	11549 Sep 18 10:50	21°♒38'03	
evening max el	11548 Sep 25 22:22	5°♓35'30 21°05'37	evening set	11549 Sep 20 06:19	21°♒28'20	
desc. node	11548 Oct 01 13:27	9°♓51'20	inferior conj	11549 Sep 29 03:41	17°♒26'31 -3°16'06	
retrograde	11548 Oct 07 17:33	11°♓26'58	minimum elong	11549 Sep 28 19:12	17°♒39'35 3°12'58	
evening set	11548 Oct 10 04:28	11°♓12'48	min. Earth dist.	11549 Oct 01 04:51	16°♒10'56 0.55179 AU	
inferior conj	11548 Oct 19 06:12	7°♓18'05 -4°54'10	morning rise	11549 Oct 07 06:30	13°♒09'30	
minimum elong	11548 Oct 18 20:38	7°♓31'36 4°51'34	direct	11549 Oct 12 02:13	12°♒18'29	
min. Earth dist.	11548 Oct 19 19:34	6°♓59'14 0.54586 AU	morning max el	11549 Oct 25 21:09	19°♒07'54 24°35'55	
morning rise	11548 Oct 27 13:13	3°♓25'46		11549 Nov 03 23:33	0°♓	
direct	11548 Oct 31 13:15	2°♓51'22	asc. node	11549 Nov 12 00:18	13°♓05'40	
morning max el	11548 Nov 13 10:18	9°♓02'16 22°47'53	morning set	11549 Nov 20 09:51	29°♓52'00	
asc. node	11548 Nov 25 03:25	24°♓22'43		11549 Nov 20 11:21	0°♔	
	11548 Nov 28 08:31	0°♔				
morning set	11548 Dec 05 22:00	15°♔05'53	superior conj	11549 Nov 27 05:36	14°♔46'01 1°39'10	

minimum elong	11549 Nov 27 05:28	14° J 45'19	1°39'51	superior conj	11550 Nov 11 16:28	29° M 32'08	1°35'38
max. Earth dist.	11549 Nov 29 05:58	19° J 09'27	1.32458 AU	minimum elong	11550 Nov 11 15:20	29° M 25'47	1°36'10
	11549 Dec 04 09:18	0° Z			11550 Nov 11 21:29	0° J	
evening rise	11549 Dec 04 14:00	0° Z 24'00		max. Earth dist.	11550 Nov 12 12:22	1° J 22'34	1.31658 AU
desc. node	11549 Dec 15 08:32	20° Z 37'09		evening rise	11550 Nov 18 15:26	14° J 39'55	
	11549 Dec 21 03:03	0° \approx			11550 Nov 26 09:41	0° Z	
evening max el	11550 Jan 06 23:39	21° \approx 21'58	27°31'30	desc. node	11550 Dec 02 05:35	10° Z 09'54	
retrograde	11550 Jan 20 17:43	28° \approx 43'48			11550 Dec 16 12:16	0° \approx	
evening set	11550 Jan 27 16:34	26° \approx 17'04		evening max el	11550 Dec 20 07:25	3° \approx 55'40	27°19'34
min. Earth dist.	11550 Jan 31 10:50	23° \approx 05'38	0.63302 AU	retrograde	11551 Jan 03 05:08	11° \approx 11'13	
inferior conj	11550 Feb 03 04:42	20° \approx 21'24	-1°34'17	evening set	11551 Jan 10 04:06	8° \approx 59'12	
minimum elong	11550 Feb 03 07:46	20° \approx 13'43	1°32'29	min. Earth dist.	11551 Jan 13 21:54	6° \approx 11'08	0.61250 AU
asc. node	11550 Feb 07 23:18	16° \approx 11'36		inferior conj	11551 Jan 16 23:55	3° \approx 28'01	-2°50'57
morning rise	11550 Feb 10 01:13	15° \approx 06'44		minimum elong	11551 Jan 17 05:48	3° \approx 15'02	2°48'06
direct	11550 Feb 12 09:52	14° \approx 39'59			11551 Jan 21 08:48	30° R Z	
morning max el	11550 Feb 18 22:49	18° \approx 01'22	17°46'57	morning rise	11551 Jan 24 10:16	28° Z 32'04	
	11550 Feb 27 16:10	0° X		asc. node	11551 Jan 25 20:31	28° Z 14'56	
morning set	11550 Mar 07 05:57	12° X 53'06		direct	11551 Jan 26 13:54	28° Z 12'42	
desc. node	11550 Mar 13 09:14	23° X 24'59			11551 Jan 31 13:19	0° \approx	
	11550 Mar 17 07:17	0° Y		morning max el	11551 Feb 02 15:02	1° \approx 45'34	17°53'14
				morning set	11551 Feb 18 06:12	26° \approx 12'22	
superior conj	11550 Mar 19 14:45	3° Y 49'12	-0°46'04		11551 Feb 20 08:23	0° X	
minimum elong	11550 Mar 19 09:57	3° Y 29'31	0°45'21	desc. node	11551 Feb 28 05:54	14° X 02'30	
max. Earth dist.	11550 Mar 25 17:12	13° Y 41'39	1.44529 AU				
evening rise	11550 Apr 03 21:33	28° Y 03'07		superior conj	11551 Feb 28 21:57	15° X 12'01	-0°05'11
	11550 Apr 05 04:03	0° Z		minimum elong	11551 Feb 28 21:31	15° X 10'09	0°04'51
	11550 Apr 25 17:22	0° II		behind sun begin	11551 Feb 28 13:32	14° X 35'35	
evening max el	11550 May 03 01:12	8° II 46'49	20°44'52	behind sun end	11551 Mar 01 05:31	15° X 44'38	
asc. node	11550 May 06 20:41	12° II 01'04		max. Earth dist.	11551 Mar 08 07:36	27° X 39'03	1.42969 AU
retrograde	11550 May 11 07:41	13° II 35'41			11551 Mar 09 18:11	0° Y	
evening set	11550 May 15 11:09	11° II 58'08		evening rise	11551 Mar 14 17:12	7° Y 55'03	
inferior conj	11550 May 20 17:40	5° II 49'06	3°10'34		11551 Mar 29 08:51	0° Z	
minimum elong	11550 May 20 16:44	5° II 52'21	3°09'51	evening max el	11551 Apr 15 20:30	22° Z 32'10	21°59'07
min. Earth dist.	11550 May 21 06:58	5° II 03'10	0.68291 AU	asc. node	11551 Apr 23 17:56	27° Z 53'30	
	11550 May 25 09:51	30° R Z		retrograde	11551 Apr 25 05:36	28° Z 04'06	
morning rise	11550 May 25 22:04	29° Z 31'17		evening set	11551 Apr 29 19:38	26° Z 11'10	
direct	11550 May 31 07:46	27° Z 08'07		inferior conj	11551 May 05 02:34	19° Z 51'51	2°54'28
	11550 Jun 07 03:17	0° II		minimum elong	11551 May 05 00:52	19° Z 57'47	2°53'39
desc. node	11550 Jun 09 10:16	1° II 55'17		min. Earth dist.	11551 May 05 02:52	19° Z 50'49	0.68707 AU
morning max el	11550 Jun 11 05:06	3° II 38'27	23°49'58	morning rise	11551 May 10 05:56	13° Z 39'06	
	11550 Jul 01 09:14	0° Z		direct	11551 May 15 02:26	11° Z 34'35	
morning set	11550 Jul 16 11:46	24° Z 07'08		morning max el	11551 May 24 16:39	17° Z 13'19	22°20'36
	11550 Jul 19 21:16	0° Z		desc. node	11551 May 27 07:11	20° Z 00'48	
max. Earth dist.	11550 Jul 20 07:28	0° Z 44'59	1.38647 AU		11551 Jun 04 05:41	0° II	
					11551 Jun 24 10:53	0° Z	
superior conj	11550 Jul 27 17:41	14° Z 19'17	-0°55'24	morning set	11551 Jun 27 03:34	4° Z 19'55	
minimum elong	11550 Jul 27 21:30	14° Z 37'18	0°55'19	max. Earth dist.	11551 Jul 02 06:07	12° Z 46'20	1.40939 AU
asc. node	11550 Aug 02 19:59	26° Z 04'10					
	11550 Aug 04 20:07	0° II		superior conj	11551 Jul 10 01:25	26° Z 18'42	-1°28'26
evening rise	11550 Aug 05 19:06	1° II 52'34		minimum elong	11551 Jul 10 07:30	26° Z 45'54	1°28'19
evening max el	11550 Aug 22 01:53	28° II 22'30	18°53'13		11551 Jul 12 02:35	0° Z	
	11550 Aug 23 21:30	0° Z		evening rise	11551 Jul 20 08:11	15° Z 15'19	
retrograde	11550 Aug 30 15:35	2° Z 39'41		asc. node	11551 Jul 20 16:48	15° Z 55'42	
evening set	11550 Sep 01 12:58	2° Z 27'58			11551 Jul 28 11:30	0° II	
desc. node	11550 Sep 05 08:11	1° Z 01'21		evening max el	11551 Aug 05 08:09	10° II 51'16	18°18'52
	11550 Sep 07 01:56	30° R II		retrograde	11551 Aug 12 17:07	14° II 34'29	
inferior conj	11550 Sep 09 18:42	28° II 09'31	-1°23'29	evening set	11551 Aug 14 20:52	14° II 16'09	
minimum elong	11550 Sep 09 15:10	28° II 15'49	1°22'09	inferior conj	11551 Aug 22 07:28	9° II 37'25	0°16'52
min. Earth dist.	11550 Sep 12 19:00	26° II 01'26	0.56612 AU	minimum elong	11551 Aug 22 08:03	9° II 36'12	0°16'19
morning rise	11550 Sep 17 14:05	23° II 15'25		desc. node	11551 Aug 23 05:34	8° II 51'07	
direct	11550 Sep 23 04:31	22° II 00'23		min. Earth dist.	11551 Aug 25 15:44	6° II 51'24	0.58630 AU
morning max el	11550 Oct 07 10:21	29° II 21'30	26°12'57	morning rise	11551 Aug 29 15:44	4° II 07'43	
	11550 Oct 08 02:07	0° Z		direct	11551 Sep 04 21:28	2° II 23'47	
	11550 Oct 28 16:08	0° M		morning max el	11551 Sep 19 06:03	10° II 07'39	27°22'34
asc. node	11550 Oct 29 21:07	2° M 18'33			11551 Oct 04 13:47	0° Z	
morning set	11550 Nov 04 20:42	14° M 32'15		asc. node	11551 Oct 16 17:52	21° Z 52'43	
				morning set	11551 Oct 20 04:48	29° Z 00'58	

	11551 Oct 20 15:55	0°♍		max. Earth dist.	11552 Oct 09 05:03	25°♌48'17	1.31563 AU
superior conj	11551 Oct 27 04:11	14°♍17'01	1°26'22	superior conj	11552 Oct 10 14:58	28°♌55'33	1°11'36
minimum elong	11551 Oct 27 02:18	14°♍06'30	1°26'38	minimum elong	11552 Oct 10 12:44	28°♌43'10	1°11'34
max. Earth dist.	11551 Oct 26 21:15	13°♍38'18	1.31357 AU		11552 Oct 11 02:36	0°♍	
evening rise	11551 Nov 02 22:11	29°♍07'58		evening rise	11552 Oct 17 08:12	13°♍42'53	
	11551 Nov 03 07:57	0°♌			11552 Oct 25 09:42	0°♌	
desc. node	11551 Nov 19 02:43	29°♌05'26		desc. node	11552 Nov 04 23:56	17°♌09'38	
	11551 Nov 19 17:03	0°♍		evening max el	11552 Nov 13 01:46	26°♌34'54	25°15'43
evening max el	11551 Dec 02 08:39	15°♍41'01	26°33'18		11552 Nov 17 04:41	0°♍	
retrograde	11551 Dec 16 07:22	22°♍48'06		retrograde	11552 Nov 26 22:13	3°♍32'18	
evening set	11551 Dec 22 22:04	21°♍00'13		evening set	11552 Dec 02 17:56	2°♍15'30	
min. Earth dist.	11551 Dec 26 22:32	18°♍24'00	0.59109 AU		11552 Dec 06 22:21	30°♌♌	
inferior conj	11551 Dec 30 02:29	15°♍58'03	-4°08'25	min. Earth dist.	11552 Dec 07 13:53	29°♌35'10	0.57111 AU
minimum elong	11551 Dec 30 10:32	15°♍42'31	4°05'16	inferior conj	11552 Dec 10 09:21	27°♌42'37	-5°14'21
morning rise	11552 Jan 07 01:49	11°♍23'15		minimum elong	11552 Dec 10 16:45	27°♌30'14	5°12'14
direct	11552 Jan 09 04:10	11°♍07'41		morning rise	11552 Dec 18 17:51	23°♌29'59	
asc. node	11552 Jan 12 17:41	11°♍55'02		direct	11552 Dec 21 00:52	23°♌14'32	
morning max el	11552 Jan 17 02:00	15°♍01'42	18°19'03	asc. node	11552 Dec 29 14:48	27°♌08'15	
	11552 Jan 27 09:28	0°♌		morning max el	11552 Dec 30 03:49	27°♌38'48	19°06'16
morning set	11552 Feb 01 20:31	10°♌09'55			11553 Jan 01 08:20	0°♍	
				morning set	11553 Jan 15 20:25	24°♍32'33	
superior conj	11552 Feb 11 03:51	27°♌37'51	0°30'31		11553 Jan 18 14:24	0°♌	
minimum elong	11552 Feb 11 05:59	27°♌47'38	0°30'38				
	11552 Feb 12 11:11	0°♌		superior conj	11553 Jan 24 03:47	10°♌53'28	0°58'48
desc. node	11552 Feb 15 02:34	4°♌42'34		minimum elong	11553 Jan 24 06:45	11°♌07'44	0°58'58
max. Earth dist.	11552 Feb 18 17:15	10°♌58'19	1.40969 AU	max. Earth dist.	11553 Jan 30 23:55	23°♌37'06	1.38759 AU
evening rise	11552 Feb 23 07:26	18°♌38'43		desc. node	11553 Jan 31 23:17	25°♌21'30	
	11552 Mar 01 10:46	0°♍		evening rise	11553 Feb 03 19:03	0°♌18'08	
	11552 Mar 22 19:48	0°♌			11553 Feb 03 14:51	0°♌	
evening max el	11552 Mar 28 12:03	6°♌20'22	23°19'13		11553 Feb 22 18:36	0°♍	
retrograde	11552 Apr 08 00:59	12°♌33'29		evening max el	11553 Mar 11 01:52	20°♍11'15	24°38'48
asc. node	11552 Apr 09 15:12	12°♌21'31		retrograde	11553 Mar 22 16:38	26°♍58'04	
evening set	11552 Apr 13 02:28	10°♌26'20		asc. node	11553 Mar 27 12:31	25°♍13'36	
inferior conj	11552 Apr 18 11:46	3°♌59'49	2°28'25	evening set	11553 Mar 28 06:06	24°♍38'36	
minimum elong	11552 Apr 18 09:39	4°♌07'07	2°27'31	min. Earth dist.	11553 Apr 01 19:11	19°♍29'21	0.68199 AU
min. Earth dist.	11552 Apr 17 23:41	4°♌41'29	0.68671 AU	inferior conj	11553 Apr 02 19:24	18°♍08'42	1°52'41
	11552 Apr 21 13:36	30°♌♍		minimum elong	11553 Apr 02 17:17	18°♍15'44	1°51'50
morning rise	11552 Apr 23 16:46	27°♍53'31		morning rise	11553 Apr 08 04:39	12°♍10'18	
direct	11552 Apr 28 00:09	26°♍10'05		direct	11553 Apr 11 23:31	10°♍48'10	
	11552 May 05 08:48	0°♌		morning max el	11553 Apr 19 09:11	14°♍55'28	19°47'28
morning max el	11552 May 06 09:12	0°♌58'26	20°57'56	desc. node	11553 Apr 30 00:47	28°♍23'34	
desc. node	11552 May 13 04:01	8°♌54'45			11553 May 01 03:37	0°♌	
	11552 May 27 23:37	0°♌		greatest brilliancy	11553 May 02 07:39	1°♌41'55	-0.6m
morning set	11552 Jun 05 18:01	13°♌25'36		morning set	11553 May 15 18:04	21°♌56'54	
max. Earth dist.	11552 Jun 13 10:57	25°♌41'56	1.42999 AU		11553 May 20 22:55	0°♌	
	11552 Jun 16 02:01	0°♌		max. Earth dist.	11553 May 26 23:07	9°♌26'37	1.44580 AU
superior conj	11552 Jun 20 11:39	7°♌21'05	-1°56'02	superior conj	11553 May 31 21:43	17°♌21'14	-2°11'49
minimum elong	11552 Jun 20 18:08	7°♌48'33	1°56'15	minimum elong	11553 Jun 01 00:25	17°♌32'09	2°12'28
evening rise	11552 Jul 02 06:59	27°♌57'56			11553 Jun 08 14:39	0°♌	
	11552 Jul 03 10:21	0°♌		evening rise	11553 Jun 14 10:31	9°♌48'23	
asc. node	11552 Jul 06 13:41	5°♌34'14		asc. node	11553 Jun 23 10:38	24°♌53'46	
evening max el	11552 Jul 18 20:12	23°♌51'35	18°04'27		11553 Jun 26 17:30	0°♌	
retrograde	11552 Jul 25 11:41	27°♌15'58		evening max el	11553 Jul 02 10:13	7°♌12'44	18°08'53
evening set	11552 Jul 27 23:25	26°♌47'17		retrograde	11553 Jul 08 18:57	10°♌33'13	
inferior conj	11552 Aug 03 16:31	21°♌48'22	1°33'34	evening set	11553 Jul 11 14:44	9°♌51'31	
minimum elong	11552 Aug 03 18:58	21°♌42'27	1°32'16	inferior conj	11553 Jul 17 17:56	4°♌34'09	2°26'14
min. Earth dist.	11552 Aug 06 20:35	18°♌46'23	0.60901 AU	minimum elong	11553 Jul 17 20:31	4°♌27'05	2°24'57
desc. node	11552 Aug 09 02:54	16°♌51'00		min. Earth dist.	11553 Jul 20 10:41	1°♌38'28	0.63125 AU
morning rise	11552 Aug 10 11:48	15°♌52'09			11553 Jul 22 02:12	30°♌♌	
direct	11552 Aug 17 02:30	13°♌41'00		morning rise	11553 Jul 24 00:32	28°♌21'33	
morning max el	11552 Aug 31 08:44	21°♌38'21	27°55'22	desc. node	11553 Jul 27 00:12	26°♌35'59	
	11552 Sep 07 16:06	0°♌		direct	11553 Jul 30 17:11	25°♌50'18	
	11552 Sep 26 15:35	0°♌			11553 Aug 09 09:12	0°♌	
asc. node	11552 Oct 02 14:36	11°♌42'09		morning max el	11553 Aug 13 16:45	3°♌52'23	27°49'51
morning set	11552 Oct 03 08:19	13°♌13'36			11553 Sep 02 06:07	0°♌	

morning set	11553 Sep 17 05:04	27° \mathbb{M} 04'16			11554 Aug 26 02:20	0° \mathbb{M}	
	11553 Sep 18 15:39	0° \mathbb{L}		morning set	11554 Aug 31 16:21	10° \mathbb{M} 26'06	
asc. node	11553 Sep 19 11:19	1° \mathbb{L} 41'18		max. Earth dist.	11554 Sep 05 02:25	19° \mathbb{M} 13'46	1.33499 AU
max. Earth dist.	11553 Sep 22 07:59	7° \mathbb{L} 42'38	1.32275 AU	asc. node	11554 Sep 06 08:02	21° \mathbb{M} 45'52	
superior conj	11553 Sep 24 22:53	13° \mathbb{L} 21'49	0°51'33	superior conj	11554 Sep 09 01:50	27° \mathbb{M} 30'01	0°26'29
minimum elong	11553 Sep 24 20:48	13° \mathbb{L} 10'30	0°51'16	minimum elong	11554 Sep 09 00:32	27° \mathbb{M} 23'09	0°26'06
evening rise	11553 Oct 01 19:33	28° \mathbb{L} 18'59			11554 Sep 10 06:05	0° \mathbb{L}	
	11553 Oct 02 14:28	0° \mathbb{M}		evening rise	11554 Sep 16 06:22	12° \mathbb{L} 50'46	
	11553 Oct 19 13:58	0° \mathbb{J}			11554 Sep 24 22:32	0° \mathbb{M}	
desc. node	11553 Oct 22 21:14	4° \mathbb{J} 03'04		evening max el	11554 Oct 07 01:07	16° \mathbb{M} 55'30	21°58'08
evening max el	11553 Oct 25 12:40	6° \mathbb{J} 49'12	23°38'15	desc. node	11554 Oct 09 18:36	19° \mathbb{M} 19'44	
retrograde	11553 Nov 08 00:26	13° \mathbb{J} 32'55		retrograde	11554 Oct 19 15:44	23° \mathbb{M} 11'49	
evening set	11553 Nov 12 13:41	12° \mathbb{J} 47'49		evening set	11554 Oct 22 18:09	22° \mathbb{M} 50'17	
min. Earth dist.	11553 Nov 18 22:50	9° \mathbb{J} 44'38	0.55532 AU	min. Earth dist.	11554 Oct 31 05:38	19° \mathbb{M} 06'34	0.54666 AU
inferior conj	11553 Nov 20 19:56	8° \mathbb{J} 37'53	-5°48'55	inferior conj	11554 Oct 31 15:21	18° \mathbb{M} 52'56	-5°31'06
minimum elong	11553 Nov 20 21:34	8° \mathbb{J} 35'28	5°48'11	minimum elong	11554 Oct 31 08:37	19° \mathbb{M} 02'23	5°29'39
morning rise	11553 Nov 29 07:16	4° \mathbb{J} 44'18		morning rise	11554 Nov 09 00:23	15° \mathbb{M} 05'51	
direct	11553 Dec 02 02:14	4° \mathbb{J} 25'05		direct	11554 Nov 12 12:45	14° \mathbb{M} 38'39	
morning max el	11553 Dec 12 17:01	9° \mathbb{J} 27'35	20°16'24	morning max el	11554 Nov 24 16:28	20° \mathbb{M} 24'46	21°48'06
asc. node	11553 Dec 16 11:51	13° \mathbb{J} 40'26			11554 Dec 02 13:10	0° \mathbb{J}	
	11553 Dec 26 12:11	0° \mathbb{Z}		asc. node	11554 Dec 03 08:52	1° \mathbb{J} 14'36	
morning set	11553 Dec 31 02:38	9° \mathbb{Z} 10'53		morning set	11554 Dec 15 12:34	23° \mathbb{J} 56'36	
					11554 Dec 18 09:16	0° \mathbb{Z}	
superior conj	11554 Jan 07 17:14	24° \mathbb{Z} 46'33	1°19'15	superior conj	11554 Dec 22 16:12	9° \mathbb{Z} 04'59	1°32'17
minimum elong	11554 Jan 07 19:51	24° \mathbb{Z} 59'48	1°19'39	minimum elong	11554 Dec 22 17:53	9° \mathbb{Z} 13'49	1°32'54
	11554 Jan 10 08:09	0° \mathbb{X}		max. Earth dist.	11554 Dec 26 19:30	17° \mathbb{Z} 36'19	1.34658 AU
max. Earth dist.	11554 Jan 13 07:17	5° \mathbb{X} 44'15	1.36583 AU	evening rise	11554 Dec 31 01:43	25° \mathbb{Z} 58'33	
evening rise	11554 Jan 17 02:20	12° \mathbb{X} 48'01			11555 Jan 02 04:57	0° \mathbb{X}	
desc. node	11554 Jan 18 20:05	15° \mathbb{X} 55'50		desc. node	11555 Jan 05 16:56	6° \mathbb{X} 20'36	
	11554 Jan 27 03:42	0° \mathbb{H}			11555 Jan 20 13:55	0° \mathbb{H}	
	11554 Feb 17 19:28	0° \mathbb{Y}		evening max el	11555 Feb 04 04:47	17° \mathbb{H} 44'53	26°48'18
evening max el	11554 Feb 21 15:20	4° \mathbb{Y} 01'54	25°50'53	retrograde	11555 Feb 17 09:16	25° \mathbb{H} 07'35	
retrograde	11554 Mar 06 03:39	11° \mathbb{Y} 12'11		evening set	11555 Feb 23 21:06	22° \mathbb{H} 34'22	
evening set	11554 Mar 12 04:56	8° \mathbb{Y} 43'28		min. Earth dist.	11555 Feb 27 21:38	18° \mathbb{H} 34'16	0.66017 AU
asc. node	11554 Mar 14 09:51	6° \mathbb{Y} 34'58		asc. node	11555 Mar 01 07:12	16° \mathbb{H} 56'24	
min. Earth dist.	11554 Mar 16 11:12	4° \mathbb{Y} 09'22	0.67307 AU	inferior conj	11555 Mar 01 21:57	16° \mathbb{H} 13'03	0°11'58
inferior conj	11554 Mar 17 23:31	2° \mathbb{Y} 14'59	1°07'15	minimum elong	11555 Mar 01 21:37	16° \mathbb{H} 14'02	0°12'05
minimum elong	11554 Mar 17 21:58	2° \mathbb{Y} 19'53	1°06'43	transit middle	11555 Mar 01 21:37	16° \mathbb{H} 14'02	0°12'05
	11554 Mar 19 19:32	30° \mathbb{R} \mathbb{H}		transit begin	11555 Mar 01 19:41	16° \mathbb{H} 19'43	
morning rise	11554 Mar 23 15:36	26° \mathbb{H} 25'59		transit end	11555 Mar 01 23:33	16° \mathbb{H} 08'22	
direct	11554 Mar 26 22:56	25° \mathbb{H} 23'34		morning rise	11555 Mar 07 23:22	10° \mathbb{H} 35'22	
morning max el	11554 Apr 02 16:52	29° \mathbb{H} 02'46	18°52'13	direct	11555 Mar 10 20:28	9° \mathbb{H} 49'44	
	11554 Apr 03 15:16	0° \mathbb{Y}		morning max el	11555 Mar 17 06:33	13° \mathbb{H} 13'34	18°13'23
greatest brilliancy	11554 Apr 16 17:20	18° \mathbb{Y} 02'12	-0.8m		11555 Mar 29 10:24	0° \mathbb{Y}	
desc. node	11554 Apr 16 21:31	18° \mathbb{Y} 18'09		desc. node	11555 Apr 03 18:10	8° \mathbb{Y} 30'49	
	11554 Apr 24 11:03	0° \mathbb{B}		morning set	11555 Apr 05 11:20	11° \mathbb{Y} 16'18	
morning set	11554 Apr 25 02:02	0° \mathbb{B} 58'16			11555 Apr 17 05:32	0° \mathbb{B}	
max. Earth dist.	11554 May 09 16:31	23° \mathbb{B} 44'20	1.45510 AU				
superior conj	11554 May 11 11:27	26° \mathbb{B} 33'28	-2°09'25	superior conj	11555 Apr 20 18:22	5° \mathbb{B} 33'04	-1°46'57
minimum elong	11554 May 11 06:42	26° \mathbb{B} 14'03	2°09'50	minimum elong	11555 Apr 20 09:02	4° \mathbb{B} 56'31	1°46'31
	11554 May 13 16:10	0° \mathbb{I}		max. Earth dist.	11555 Apr 22 11:59	8° \mathbb{B} 15'55	1.45700 AU
evening rise	11554 May 26 14:45	20° \mathbb{I} 39'32			11555 May 06 10:39	0° \mathbb{I}	
	11554 Jun 01 09:28	0° \mathbb{G}		evening rise	11555 May 06 19:34	0° \mathbb{I} 34'42	
asc. node	11554 Jun 10 07:40	13° \mathbb{G} 47'52		greatest brilliancy	11555 May 18 05:37	18° \mathbb{I} 14'28	-0.7m
evening max el	11554 Jun 15 23:04	20° \mathbb{G} 47'16	18°31'27		11555 May 26 11:21	0° \mathbb{G}	
retrograde	11554 Jun 22 10:35	24° \mathbb{G} 17'37		asc. node	11555 May 28 04:47	2° \mathbb{G} 07'48	
evening set	11554 Jun 25 14:29	23° \mathbb{G} 21'16		evening max el	11555 May 30 08:20	4° \mathbb{G} 28'59	19°11'20
inferior conj	11554 Jul 01 07:41	17° \mathbb{G} 47'26	2°58'15	retrograde	11555 Jun 06 07:03	8° \mathbb{G} 21'49	
minimum elong	11554 Jul 01 09:30	17° \mathbb{G} 41'59	2°57'15	evening set	11555 Jun 09 19:29	7° \mathbb{G} 09'49	
min. Earth dist.	11554 Jul 03 10:10	15° \mathbb{G} 15'55	0.65096 AU	inferior conj	11555 Jun 15 06:14	1° \mathbb{G} 21'14	3°13'31
morning rise	11554 Jul 07 03:30	11° \mathbb{G} 26'57		minimum elong	11555 Jun 15 06:56	1° \mathbb{G} 18'56	3°12'44
direct	11554 Jul 13 16:08	8° \mathbb{G} 45'23			11555 Jun 16 07:17	30° \mathbb{R} \mathbb{I}	
desc. node	11554 Jul 13 21:27	8° \mathbb{G} 45'33		min. Earth dist.	11555 Jun 16 17:53	29° \mathbb{I} 25'57	0.66686 AU
morning max el	11554 Jul 27 03:30	16° \mathbb{G} 41'14	27°10'07	morning rise	11555 Jun 20 17:50	24° \mathbb{I} 59'00	
	11554 Aug 07 04:24	0° \mathbb{Q}		direct	11555 Jun 26 22:08	22° \mathbb{I} 17'30	

desc. node	11555 Jun 30 18:36	23° Π 09'49		inferior conj	11556 May 29 10:36	15° Π 09'21	3°15'04
morning max el	11555 Jul 09 14:21	29° Π 52'16	26°04'04	minimum elong	11556 May 29 10:13	15° Π 10'40	3°14'21
	11555 Jul 09 17:24	0° \mathfrak{S}		min. Earth dist.	11556 May 30 07:53	13° Π 57'07	0.67838 AU
	11555 Aug 01 01:49	0° Ω		morning rise	11556 Jun 03 16:50	8° Π 49'16	
morning set	11555 Aug 14 14:41	23° Ω 10'29		direct	11556 Jun 09 09:55	6° Π 17'08	
	11555 Aug 18 05:25	0° \mathfrak{M}		desc. node	11556 Jun 16 15:39	9° Π 20'27	
max. Earth dist.	11555 Aug 18 10:19	0° \mathfrak{M} 23'38	1.35214 AU	morning max el	11556 Jun 21 00:10	13° Π 14'33	24°41'13
					11556 Jul 04 13:25	0° \mathfrak{S}	
superior conj	11555 Aug 23 21:15	11° \mathfrak{M} 13'45	-0°03'03		11556 Jul 23 21:07	0° Ω	
minimum elong	11555 Aug 23 21:27	11° \mathfrak{M} 14'45	0°03'19	morning set	11556 Jul 26 19:33	5° Ω 04'59	
behind sun begin	11555 Aug 23 15:31	10° \mathfrak{M} 44'32		max. Earth dist.	11556 Jul 30 09:37	11° Ω 30'12	1.37329 AU
behind sun end	11555 Aug 24 03:24	11° \mathfrak{M} 45'01					
asc. node	11555 Aug 24 04:47	11° \mathfrak{M} 52'05		superior conj	11556 Aug 06 05:58	24° Ω 24'30	-0°35'48
evening rise	11555 Aug 31 14:35	27° \mathfrak{M} 12'50		minimum elong	11556 Aug 06 08:20	24° Ω 36'01	0°35'51
	11555 Sep 01 23:05	0° \mathfrak{L}			11556 Aug 09 02:16	0° \mathfrak{M}	
evening max el	11555 Sep 19 00:19	27° \mathfrak{L} 30'41	20°30'25	asc. node	11556 Aug 10 01:30	1° \mathfrak{M} 55'30	
	11555 Sep 21 21:09	0° \mathfrak{M}		evening rise	11556 Aug 14 17:47	11° \mathfrak{M} 18'03	
desc. node	11555 Sep 26 15:59	2° \mathfrak{M} 30'34			11556 Aug 24 19:33	0° \mathfrak{L}	
retrograde	11555 Sep 30 03:27	3° \mathfrak{M} 02'17		evening max el	11556 Aug 31 13:30	8° \mathfrak{L} 51'42	19°22'31
evening set	11555 Oct 02 06:13	2° \mathfrak{M} 51'11		retrograde	11556 Sep 09 23:56	13° \mathfrak{L} 33'32	
	11555 Oct 09 10:37	30° \mathfrak{R} \mathfrak{L}		evening set	11556 Sep 11 20:10	13° \mathfrak{L} 23'33	
inferior conj	11555 Oct 11 07:58	28° \mathfrak{L} 55'09	-4°16'37	desc. node	11556 Sep 12 13:23	13° \mathfrak{L} 14'31	
minimum elong	11555 Oct 10 22:00	29° \mathfrak{L} 09'37	4°13'25	inferior conj	11556 Sep 20 11:52	9° \mathfrak{L} 15'54	-2°28'11
min. Earth dist.	11555 Oct 12 13:45	28° \mathfrak{L} 11'55	0.54719 AU	minimum elong	11556 Sep 20 05:21	9° \mathfrak{L} 26'32	2°25'40
morning rise	11555 Oct 19 13:20	24° \mathfrak{L} 54'10		min. Earth dist.	11556 Sep 23 00:57	7° \mathfrak{L} 36'43	0.55705 AU
direct	11555 Oct 23 21:33	24° \mathfrak{L} 13'35		morning rise	11556 Sep 28 12:01	4° \mathfrak{L} 43'51	
	11555 Nov 05 11:17	0° \mathfrak{M}		direct	11556 Oct 03 16:16	3° \mathfrak{L} 43'07	
morning max el	11555 Nov 06 05:50	0° \mathfrak{M} 42'27	23°33'57	morning max el	11556 Oct 17 16:40	10° \mathfrak{L} 47'11	25°19'26
asc. node	11555 Nov 20 05:47	19° \mathfrak{M} 36'14			11556 Nov 01 06:41	0° \mathfrak{M}	
	11555 Nov 25 18:59	0° \mathfrak{J}		asc. node	11556 Nov 06 02:38	8° \mathfrak{M} 33'01	
morning set	11555 Nov 30 00:13	8° \mathfrak{J} 44'03		morning set	11556 Nov 13 11:49	23° \mathfrak{M} 28'00	
					11556 Nov 16 11:57	0° \mathfrak{J}	
superior conj	11555 Dec 06 21:40	23° \mathfrak{J} 39'53	1°38'28	superior conj	11556 Nov 20 07:09	8° \mathfrak{J} 23'31	1°38'22
minimum elong	11555 Dec 06 22:12	23° \mathfrak{J} 42'46	1°39'12	minimum elong	11556 Nov 20 06:34	8° \mathfrak{J} 20'17	1°39'01
max. Earth dist.	11555 Dec 09 15:30	29° \mathfrak{J} 32'23	1.33130 AU	max. Earth dist.	11556 Nov 21 18:54	11° \mathfrak{J} 40'08	1.32062 AU
	11555 Dec 09 20:43	0° \mathfrak{Z}		evening rise	11556 Nov 27 10:58	23° \mathfrak{J} 46'56	
evening rise	11555 Dec 14 13:40	9° \mathfrak{Z} 41'04			11556 Nov 30 12:48	0° \mathfrak{Z}	
desc. node	11555 Dec 23 13:52	26° \mathfrak{Z} 30'46		desc. node	11556 Dec 09 10:54	16° \mathfrak{Z} 19'39	
	11555 Dec 25 14:48	0° \mathfrak{A}			11556 Dec 18 07:10	0° \mathfrak{A}	
	11556 Jan 16 12:45	0° \mathfrak{H}		evening max el	11556 Dec 30 04:20	14° \mathfrak{A} 08'36	27°30'39
evening max el	11556 Jan 17 17:43	1° \mathfrak{H} 11'10	27°23'46	retrograde	11557 Jan 13 00:31	21° \mathfrak{A} 27'49	
retrograde	11556 Jan 31 08:35	8° \mathfrak{H} 35'45		evening set	11557 Jan 20 00:04	19° \mathfrak{A} 06'37	
evening set	11556 Feb 07 04:23	6° \mathfrak{H} 04'36		min. Earth dist.	11557 Jan 23 17:44	16° \mathfrak{A} 05'49	0.62446 AU
min. Earth dist.	11556 Feb 11 00:26	2° \mathfrak{H} 36'18	0.64375 AU	inferior conj	11557 Jan 26 15:24	13° \mathfrak{A} 20'33	-2°06'14
	11556 Feb 13 11:13	30° \mathfrak{R} \mathfrak{A}		minimum elong	11557 Jan 26 19:39	13° \mathfrak{A} 10'26	2°03'57
inferior conj	11556 Feb 13 12:13	29° \mathfrak{A} 57'18	-0°52'57	asc. node	11557 Feb 02 01:47	8° \mathfrak{A} 28'26	
minimum elong	11556 Feb 13 13:51	29° \mathfrak{A} 52'57	0°51'50	morning rise	11557 Feb 02 17:43	8° \mathfrak{A} 13'08	
asc. node	11556 Feb 16 04:32	27° \mathfrak{A} 14'40		direct	11557 Feb 04 23:51	7° \mathfrak{A} 49'57	
morning rise	11556 Feb 20 01:14	24° \mathfrak{A} 33'14		morning max el	11557 Feb 11 17:01	11° \mathfrak{A} 15'19	17°47'18
direct	11556 Feb 22 13:46	24° \mathfrak{A} 00'44			11557 Feb 24 07:46	0° \mathfrak{H}	
morning max el	11556 Feb 28 23:36	27° \mathfrak{A} 20'24	17°51'32	morning set	11557 Feb 27 14:56	5° \mathfrak{H} 48'08	
	11556 Mar 02 09:02	0° \mathfrak{H}		desc. node	11557 Mar 07 11:25	19° \mathfrak{H} 30'48	
morning set	11556 Mar 17 01:17	22° \mathfrak{H} 58'08		superior conj	11557 Mar 11 05:17	25° \mathfrak{H} 51'51	-0°28'20
desc. node	11556 Mar 20 14:47	28° \mathfrak{H} 56'22		minimum elong	11557 Mar 11 02:30	25° \mathfrak{H} 40'10	0°27'46
	11556 Mar 21 06:03	0° \mathfrak{Y}			11557 Mar 13 16:55	0° \mathfrak{Y}	
superior conj	11556 Mar 30 12:26	15° \mathfrak{Y} 09'35	-1°10'04	max. Earth dist.	11557 Mar 18 00:18	7° \mathfrak{Y} 01'35	1.43931 AU
minimum elong	11556 Mar 30 05:00	14° \mathfrak{Y} 39'42	1°09'15	evening rise	11557 Mar 25 22:12	19° \mathfrak{Y} 30'34	
max. Earth dist.	11556 Apr 04 07:14	22° \mathfrak{Y} 46'19	1.45153 AU		11557 Apr 01 19:27	0° \mathfrak{Z}	
	11556 Apr 08 21:58	0° \mathfrak{Z}			11557 Apr 23 14:02	0° \mathfrak{H}	
evening rise	11556 Apr 15 08:59	9° \mathfrak{Z} 58'16		evening max el	11557 Apr 25 10:49	1° \mathfrak{H} 59'12	21°15'29
	11556 Apr 28 15:49	0° \mathfrak{H}		asc. node	11557 Apr 30 23:11	6° \mathfrak{H} 16'31	
greatest brilliancy	11556 Apr 30 10:48	2° \mathfrak{H} 36'55	-0.6m	retrograde	11557 May 04 04:06	7° \mathfrak{H} 05'39	
evening max el	11556 May 12 12:23	18° \mathfrak{H} 13'26	20°06'57	evening set	11557 May 08 12:01	5° \mathfrak{H} 21'29	
asc. node	11556 May 14 01:57	19° \mathfrak{H} 41'53			11557 May 13 03:28	30° \mathfrak{R} \mathfrak{Z}	
retrograde	11556 May 20 05:34	22° \mathfrak{H} 39'19		inferior conj	11557 May 13 18:28	29° \mathfrak{Z} 08'02	3°05'00
evening set	11556 May 24 03:17	21° \mathfrak{H} 11'12					

minimum elong	11557 May 13 17:10	29°  12'33	3°04'14	evening set	11558 Apr 22 19:59	19°  35'49	
min. Earth dist.	11557 May 14 02:10	28°  41'13	0.68526 AU	inferior conj	11558 Apr 28 03:42	13°  13'04	2°44'35
morning rise	11557 May 18 22:06	22°  52'23		minimum elong	11558 Apr 28 01:47	13°  19'46	2°43'44
direct	11557 May 24 02:21	20°  36'30		min. Earth dist.	11558 Apr 27 22:36	13°  30'49	0.68750 AU
morning max el	11557 Jun 03 10:14	26°  44'44	23°11'39	morning rise	11558 May 03 07:28	7°  03'11	
desc. node	11557 Jun 03 12:34	26°  50'40		direct	11558 May 07 22:21	5°  07'37	
	11557 Jun 06 10:35	0°  II		morning max el	11558 May 16 23:35	10°  23'42	21°44'18
	11557 Jun 28 03:11	0°  ☿		desc. node	11558 May 21 09:26	15°  18'27	
morning set	11557 Jul 08 02:03	15°  ☿57'41			11558 Jun 01 08:12	0°  II	
max. Earth dist.	11557 Jul 12 06:58	23°  ☿06'14	1.39639 AU	morning set	11558 Jun 18 06:37	25°  II40'17	
	11557 Jul 16 05:07	0°  ♊			11558 Jun 20 23:17	0°  ☿	
				max. Earth dist.	11558 Jun 24 08:26	5°  ☿32'18	1.41862 AU
superior conj	11557 Jul 20 00:08	6°  ♊53'18	-1°09'42	superior conj	11558 Jul 01 23:11	18°  ☿29'12	-1°41'08
minimum elong	11557 Jul 20 05:00	7°  ♊15'47	1°09'34	minimum elong	11558 Jul 02 05:48	18°  ☿58'09	1°41'07
asc. node	11557 Jul 27 22:18	21°  ♊52'53			11558 Jul 08 10:13	0°  ♊	
evening rise	11557 Jul 29 13:04	24°  ♊59'18		evening rise	11558 Jul 12 20:38	8°  ♊06'30	
	11557 Aug 01 03:59	0°  ♊		asc. node	11558 Jul 14 19:10	11°  ♊39'40	
evening max el	11557 Aug 14 14:37	20°  ♊58'01	18°36'02		11558 Jul 25 20:05	0°  ♊	
retrograde	11557 Aug 22 14:31	24°  ♊58'45		evening max el	11558 Jul 28 23:46	3°  ♊41'04	18°10'19
evening set	11557 Aug 24 14:23	24°  ♊44'36		retrograde	11558 Aug 05 00:01	7°  ♊14'48	
desc. node	11557 Aug 30 10:44	21°  ♊48'21		evening set	11558 Aug 07 07:02	6°  ♊52'28	
inferior conj	11557 Sep 01 11:59	20°  ♊17'23	-0°38'22	inferior conj	11558 Aug 14 09:48	2°  ♊04'39	0°52'26
minimum elong	11557 Sep 01 10:27	20°  ♊20'18	0°37'58	minimum elong	11558 Aug 14 11:26	2°  ♊01'01	0°51'26
min. Earth dist.	11557 Sep 04 17:21	17°  ♊51'09	0.57429 AU		11558 Aug 16 17:42	30°  ♊♊	
morning rise	11557 Sep 09 03:06	15°  ♊07'44		desc. node	11558 Aug 17 08:04	29°  ♊28'48	
direct	11557 Sep 15 00:47	13°  ♊40'47		min. Earth dist.	11558 Aug 17 17:17	29°  ♊09'11	0.59580 AU
morning max el	11557 Sep 29 08:09	21°  ♊11'34	26°46'36	morning rise	11558 Aug 21 12:37	26°  ♊22'13	
	11557 Oct 07 00:24	0°  ♊		direct	11558 Aug 27 22:46	24°  ♊26'32	
asc. node	11557 Oct 23 23:24	27°  ♊55'52			11558 Sep 08 19:42	0°  ♊	
	11557 Oct 25 00:21	0°  ♊		morning max el	11558 Sep 11 07:11	2°  ♊17'02	27°41'23
morning set	11557 Oct 28 21:43	8°  ♊03'52			11558 Oct 01 10:48	0°  ♊	
superior conj	11557 Nov 04 18:36	23°  ♊09'38	1°32'22	asc. node	11558 Oct 10 20:09	17°  ♊37'45	
minimum elong	11557 Nov 04 17:06	23°  ♊01'16	1°32'48	morning set	11558 Oct 13 04:10	22°  ♊27'13	
max. Earth dist.	11557 Nov 05 02:58	23°  ♊56'13	1.31477 AU		11558 Oct 16 16:35	0°  ♊	
	11557 Nov 07 20:35	0°  ♊		max. Earth dist.	11558 Oct 19 12:06	6°  ♊12'25	1.31384 AU
evening rise	11557 Nov 11 14:57	8°  ♊08'55		superior conj	11558 Oct 20 06:11	7°  ♊52'58	1°20'46
	11557 Nov 22 22:44	0°  ♊		minimum elong	11558 Oct 20 04:06	7°  ♊41'20	1°20'54
desc. node	11557 Nov 26 08:01	5°  ♊38'11		evening rise	11558 Oct 26 23:23	22°  ♊41'06	
evening max el	11557 Dec 12 09:48	26°  ♊23'18	27°04'04		11558 Oct 30 11:09	0°  ♊	
	11557 Dec 16 18:25	0°  ♊		desc. node	11558 Nov 13 05:12	24°  ♊14'37	
retrograde	11557 Dec 26 07:51	3°  ♊34'27			11558 Nov 17 09:15	0°  ♊	
evening set	11558 Jan 02 04:37	1°  ♊31'48		evening max el	11558 Nov 24 07:32	7°  ♊46'33	26°03'33
	11558 Jan 04 12:05	30°  ♊♊		retrograde	11558 Dec 08 05:30	14°  ♊49'53	
min. Earth dist.	11558 Jan 06 00:13	28°  ♊50'31	0.60341 AU	evening set	11558 Dec 14 13:49	13°  ♊14'15	
inferior conj	11558 Jan 09 03:59	26°  ♊12'58	-3°24'18	min. Earth dist.	11558 Dec 18 20:24	10°  ♊38'49	0.58230 AU
minimum elong	11558 Jan 09 10:58	25°  ♊58'24	3°21'10	inferior conj	11558 Dec 21 22:31	8°  ♊25'00	-4°38'47
morning rise	11558 Jan 16 20:05	21°  ♊25'35		minimum elong	11558 Dec 22 06:48	8°  ♊09'59	4°35'54
direct	11558 Jan 18 22:46	21°  ♊08'08		morning rise	11558 Dec 30 02:27	4°  ♊00'03	
asc. node	11558 Jan 19 23:00	21°  ♊12'15		direct	11559 Jan 01 06:01	3°  ♊44'58	
morning max el	11558 Jan 26 07:25	24°  ♊48'36	18°01'45	asc. node	11559 Jan 06 20:08	5°  ♊33'54	
	11558 Jan 30 14:05	0°  ♊		morning max el	11559 Jan 09 15:05	7°  ♊50'18	18°36'27
morning set	11558 Feb 10 21:49	19°  ♊25'51			11559 Jan 23 19:54	0°  ♊	
	11558 Feb 16 15:29	0°  ♊		morning set	11559 Jan 25 16:43	3°  ♊35'49	
superior conj	11558 Feb 20 22:38	7°  ♊42'54	0°10'49	superior conj	11559 Feb 03 12:54	20°  ♊32'22	0°43'27
minimum elong	11558 Feb 20 23:32	7°  ♊46'53	0°11'01	minimum elong	11559 Feb 03 15:34	20°  ♊44'51	0°43'33
behind sun begin	11558 Feb 20 17:46	7°  ♊21'25			11559 Feb 08 17:28	0°  ♊	
behind sun end	11558 Feb 21 05:17	8°  ♊12'18		desc. node	11559 Feb 09 04:48	0°  ♊50'15	
desc. node	11558 Feb 22 08:04	10°  ♊09'51		max. Earth dist.	11559 Feb 10 21:25	3°  ♊48'30	1.40041 AU
max. Earth dist.	11558 Feb 28 13:15	20°  ♊46'05	1.42160 AU	evening rise	11559 Feb 15 00:21	10°  ♊50'35	
evening rise	11558 Mar 06 00:59	29°  ♊42'57			11559 Feb 27 02:38	0°  ♊	
	11558 Mar 06 05:15	0°  ♊		evening max el	11559 Mar 21 18:43	29°  ♊34'14	23°53'25
	11558 Mar 26 08:53	0°  ♊			11559 Mar 22 05:11	0°  ♊	
evening max el	11558 Apr 08 04:19	15°  ♊45'37	22°32'48	retrograde	11559 Apr 01 19:04	6°  ♊03'16	
asc. node	11558 Apr 17 20:28	21°  ♊35'02		asc. node	11559 Apr 04 17:45	5°  ♊23'00	
retrograde	11558 Apr 18 01:02	21°  ♊35'12					

evening set	11559 Apr 07 01:39	3°♄50'19		min. Earth dist.	11560 Mar 25 13:31	13°♊05'52	0.67865 AU
	11559 Apr 10 13:18	30°♋♊		inferior conj	11560 Mar 26 18:52	11°♊30'05	1°34'37
min. Earth dist.	11559 Apr 11 19:06	28°♊20'44	0.68524 AU	minimum elong	11560 Mar 26 16:55	11°♊36'27	1°33'52
inferior conj	11559 Apr 12 12:28	27°♊21'37	2°14'24	morning rise	11560 Apr 01 06:42	5°♊35'18	
minimum elong	11559 Apr 12 10:17	27°♊29'00	2°13'31	direct	11560 Apr 04 20:26	4°♊21'57	
morning rise	11559 Apr 17 18:58	21°♊18'36		morning max el	11560 Apr 11 22:36	8°♊16'06	19°21'56
direct	11559 Apr 21 20:50	19°♊44'33		desc. node	11560 Apr 24 03:02	24°♊09'15	
morning max el	11559 Apr 29 19:15	24°♊14'13	20°26'13	greatest brilliancy	11560 Apr 24 16:52	25°♊00'23	-0.7m
	11559 May 04 20:30	0°♄			11560 Apr 28 00:56	0°♄	
desc. node	11559 May 08 06:16	4°♄28'23		morning set	11560 May 06 13:13	13°♄00'26	
	11559 May 25 15:55	0°♄			11560 May 17 11:41	0°♄	
morning set	11559 May 28 12:44	4°♄24'46		max. Earth dist.	11560 May 19 06:22	2°♄47'49	1.45057 AU
max. Earth dist.	11559 Jun 06 16:16	18°♄49'10	1.43737 AU				
				superior conj	11560 May 22 23:35	8°♄40'55	-2°13'18
superior conj	11559 Jun 12 23:06	29°♄04'04	-2°04'36	minimum elong	11560 May 22 23:17	8°♄39'47	2°13'58
minimum elong	11559 Jun 13 04:36	29°♄26'51	2°05'02		11560 Jun 05 02:26	0°♄	
	11559 Jun 13 12:35	0°♄		evening rise	11560 Jun 06 05:51	1°♄53'38	
evening rise	11559 Jun 25 11:51	20°♄28'03		asc. node	11560 Jun 17 13:04	20°♄20'33	
	11559 Jun 30 23:30	0°♄			11560 Jun 24 19:26	0°♄	
asc. node	11559 Jul 01 16:05	1°♄10'44		evening max el	11560 Jun 25 02:55	0°♄18'50	18°16'24
evening max el	11559 Jul 12 13:00	16°♄50'47	18°04'07	retrograde	11560 Jul 01 11:46	3°♄41'47	
retrograde	11559 Jul 19 00:36	20°♄12'06		evening set	11560 Jul 04 10:57	2°♄54'06	
evening set	11559 Jul 21 15:36	19°♄38'20			11560 Jul 08 02:27	30°♋♄	
inferior conj	11559 Jul 28 02:19	14°♄31'26	1°58'39	inferior conj	11560 Jul 10 09:28	27°♄29'51	2°42'04
minimum elong	11559 Jul 28 05:00	14°♄24'37	1°57'19	minimum elong	11560 Jul 10 11:47	27°♄23'12	2°40'54
min. Earth dist.	11559 Jul 31 02:13	11°♄29'19	0.61856 AU	min. Earth dist.	11560 Jul 12 20:29	24°♄42'17	0.64002 AU
morning rise	11559 Aug 03 16:00	8°♄26'44		morning rise	11560 Jul 16 11:11	21°♄13'03	
desc. node	11559 Aug 04 05:24	8°♄04'10		desc. node	11560 Jul 21 02:40	18°♄49'32	
direct	11559 Aug 10 08:15	6°♄05'47		direct	11560 Jul 23 02:55	18°♄35'44	
morning max el	11559 Aug 24 12:37	14°♄07'26	27°57'40	morning max el	11560 Aug 05 21:57	26°♄37'11	27°36'42
	11559 Sep 06 07:53	0°♄			11560 Aug 09 01:36	0°♄	
	11559 Sep 23 22:59	0°♄			11560 Aug 29 23:03	0°♄	
morning set	11559 Sep 27 05:08	6°♄31'34		morning set	11560 Sep 09 22:13	20°♄10'49	
asc. node	11559 Sep 27 16:53	7°♄32'01		asc. node	11560 Sep 13 13:37	27°♄34'03	
max. Earth dist.	11559 Oct 02 18:14	18°♄16'36	1.31796 AU	max. Earth dist.	11560 Sep 14 17:39	0°♄00'12	1.32728 AU
					11560 Sep 14 17:37	0°♄	
superior conj	11559 Oct 04 15:59	22°♄27'03	1°03'45				
minimum elong	11559 Oct 04 13:45	22°♄14'45	1°03'36	superior conj	11560 Sep 17 22:04	6°♄46'28	0°41'31
	11559 Oct 08 02:06	0°♄		minimum elong	11560 Sep 17 20:14	6°♄36'37	0°41'11
evening rise	11559 Oct 11 10:10	7°♄16'59		evening rise	11560 Sep 24 21:30	21°♄51'38	
	11559 Oct 23 02:41	0°♄			11560 Sep 28 19:11	0°♄	
desc. node	11559 Oct 31 02:28	11°♄51'47		desc. node	11560 Oct 16 23:47	28°♄07'30	
evening max el	11559 Nov 05 21:14	18°♄20'27	24°35'45	evening max el	11560 Oct 17 07:44	28°♄27'04	22°55'03
retrograde	11559 Nov 19 15:32	25°♄13'54			11560 Oct 19 00:23	0°♄	
evening set	11559 Nov 24 23:22	24°♄10'55		retrograde	11560 Oct 30 12:32	5°♄00'54	
min. Earth dist.	11559 Nov 30 08:44	21°♄22'59	0.56369 AU	evening set	11560 Nov 03 10:27	4°♄27'36	
inferior conj	11559 Dec 02 20:34	19°♄48'27	-5°34'12	min. Earth dist.	11560 Nov 10 16:36	1°♄09'02	0.55064 AU
minimum elong	11559 Dec 03 02:10	19°♄39'34	5°32'47	inferior conj	11560 Nov 11 23:39	0°♄24'32	-5°48'37
morning rise	11559 Dec 11 07:08	15°♄44'52		minimum elong	11560 Nov 11 21:36	0°♄27'28	5°47'56
direct	11559 Dec 13 18:04	15°♄28'30			11560 Nov 12 16:47	30°♋♄	
morning max el	11559 Dec 23 12:01	20°♄08'20	19°33'15	morning rise	11560 Nov 20 10:19	26°♄35'21	
asc. node	11559 Dec 24 17:14	21°♄22'39		direct	11560 Nov 23 12:13	26°♄13'13	
	11559 Dec 31 02:06	0°♄			11560 Dec 02 23:53	0°♄	
morning set	11560 Jan 09 19:38	18°♄05'48		morning max el	11560 Dec 04 19:13	1°♄34'32	20°52'53
	11560 Jan 15 17:32	0°♄		asc. node	11560 Dec 10 14:16	8°♄22'53	
					11560 Dec 22 19:06	0°♄	
superior conj	11560 Jan 17 19:07	4°♄05'24	1°08'24	morning set	11560 Dec 24 03:40	2°♄47'37	
minimum elong	11560 Jan 17 22:03	4°♄19'46	1°08'39				
max. Earth dist.	11560 Jan 24 03:15	16°♄09'31	1.37815 AU	superior conj	11560 Dec 31 12:59	18°♄09'56	1°25'39
desc. node	11560 Jan 27 01:35	21°♄27'48		minimum elong	11560 Dec 31 15:16	18°♄21'37	1°26'09
evening rise	11560 Jan 27 20:42	22°♄52'27		max. Earth dist.	11561 Jan 05 12:04	28°♄07'02	1.35729 AU
	11560 Jan 31 23:58	0°♄			11561 Jan 06 11:21	0°♄	
	11560 Feb 20 22:16	0°♄		evening rise	11561 Jan 09 11:17	5°♄40'45	
evening max el	11560 Mar 03 08:09	13°♄25'10	25°10'48	desc. node	11561 Jan 12 22:24	11°♄58'31	
retrograde	11560 Mar 15 09:03	20°♄24'06			11561 Jan 23 19:47	0°♄	
evening set	11560 Mar 21 03:29	18°♄00'20		evening max el	11561 Feb 13 21:49	27°♄14'03	26°17'38
asc. node	11560 Mar 21 15:04	17°♄34'47			11561 Feb 16 23:39	0°♄	

retrograde	11561 Feb 26 17:51	4° Υ 30'42		11562 Jan 17 22:29	0° H	
evening set	11561 Mar 04 23:42	1° Υ 59'44		evening max el	11562 Jan 27 11:24	10° H 52'17 27°06'30
	11561 Mar 07 02:26	30° R H		retrograde	11562 Feb 09 20:39	18° H 15'57
asc. node	11561 Mar 08 12:25	28° H 24'53		evening set	11562 Feb 16 12:23	15° H 42'53
min. Earth dist.	11561 Mar 09 03:32	27° H 40'00	0.66802 AU	min. Earth dist.	11562 Feb 20 10:56	11° H 56'42 0.65364 AU
inferior conj	11561 Mar 10 20:52	25° H 33'31	0°45'01	inferior conj	11562 Feb 22 16:11	9° H 26'57 -0°14'22
minimum elong	11561 Mar 10 19:44	25° H 36'58	0°44'43	minimum elong	11562 Feb 22 16:35	9° H 25'49 0°13'53
morning rise	11561 Mar 16 16:35	19° H 48'47		transit middle	11562 Feb 22 16:35	9° H 25'49 0°13'53
direct	11561 Mar 19 19:25	18° H 53'48		transit begin	11562 Feb 22 15:05	9° H 30'02
morning max el	11561 Mar 26 09:00	22° H 25'05	18°33'34	transit end	11562 Feb 22 18:05	9° H 21'35
	11561 Apr 01 13:50	0° Υ		asc. node	11562 Feb 23 09:44	8° H 37'47
desc. node	11561 Apr 10 23:43	14° Υ 12'10		morning rise	11562 Feb 28 22:15	3° H 54'39
morning set	11561 Apr 16 06:40	22° Υ 30'51		direct	11562 Mar 03 15:36	3° H 14'54
	11561 Apr 21 00:55	0° B		morning max el	11562 Mar 10 00:28	6° H 35'19 18°01'58
					11562 Mar 26 02:06	0° Υ
superior conj	11561 May 02 08:14	17° B 41'41	-2°02'10	morning set	11562 Mar 28 04:32	3° Υ 26'22
minimum elong	11561 May 02 00:46	17° B 12'31	2°02'14	desc. node	11562 Mar 28 20:22	4° Υ 31'10
max. Earth dist.	11561 May 02 01:04	17° B 13'43	1.45686 AU			
	11561 May 10 04:39	0° II		superior conj	11562 Apr 11 17:50	26° Υ 51'59 -1°32'30
evening rise	11561 May 17 23:39	12° II 18'55		minimum elong	11562 Apr 11 08:38	26° Υ 15'41 1°31'48
greatest brilliancy	11561 May 26 09:40	25° II 39'07	-0.8m		11562 Apr 13 17:35	0° B
	11561 May 29 04:51	0° B		max. Earth dist.	11562 Apr 14 21:21	1° B 48'59 1.45564 AU
asc. node	11561 Jun 04 10:09	9° B 01'09		evening rise	11562 Apr 27 20:30	21° B 56'58
evening max el	11561 Jun 08 14:34	13° B 57'11	18°46'24		11562 May 03 02:06	0° II
retrograde	11561 Jun 15 05:42	17° B 35'12		greatest brilliancy	11562 May 11 04:07	12° II 14'13 -0.7m
evening set	11561 Jun 18 13:16	16° B 32'09		asc. node	11562 May 22 07:16	27° II 02'55
inferior conj	11561 Jun 24 03:19	10° B 51'59	3°06'33	evening max el	11562 May 22 21:45	27° II 40'18 19°33'07
minimum elong	11561 Jun 24 04:40	10° B 47'45	3°05'39		11562 May 25 13:46	0° B
min. Earth dist.	11561 Jun 25 23:28	8° B 34'51	0.65831 AU	retrograde	11562 May 30 03:21	1° B 45'49
morning rise	11561 Jun 29 19:19	4° B 30'26		evening set	11562 Jun 02 19:44	0° B 26'45
direct	11561 Jul 06 05:00	1° B 47'39			11562 Jun 03 09:39	30° R II
desc. node	11561 Jul 07 23:52	1° B 58'50		inferior conj	11562 Jun 08 04:39	24° II 32'08 3°15'41
morning max el	11561 Jul 19 08:44	9° B 35'39	26°44'38	minimum elong	11562 Jun 08 04:53	24° II 31'23 3°14'56
	11561 Aug 04 09:43	0° Ω		min. Earth dist.	11562 Jun 09 10:00	22° II 55'00 0.67240 AU
	11561 Aug 22 10:29	0° M		morning rise	11562 Jun 13 13:39	18° II 10'36
morning set	11561 Aug 24 04:22	3° M 16'56		direct	11562 Jun 19 13:24	15° II 32'24
max. Earth dist.	11561 Aug 28 07:31	11° M 19'59	1.34175 AU	desc. node	11562 Jun 24 20:58	17° II 11'40
asc. node	11561 Aug 31 10:21	17° M 39'24		morning max el	11562 Jul 01 19:13	22° II 52'25 25°30'15
					11562 Jul 08 02:02	0° B
superior conj	11561 Sep 01 22:08	20° M 44'39	0°14'27		11562 Jul 28 17:26	0° Ω
minimum elong	11561 Sep 01 21:22	20° M 40'43	0°14'07	morning set	11562 Aug 06 19:48	15° Ω 40'51
behind sun begin	11561 Sep 01 18:35	20° M 26'13		max. Earth dist.	11562 Aug 10 11:35	22° Ω 26'19 1.36082 AU
behind sun end	11561 Sep 02 00:09	20° M 55'13			11562 Aug 14 09:55	0° M
	11561 Sep 06 07:33	0° B				
evening rise	11561 Sep 09 07:25	6° B 19'29		superior conj	11562 Aug 16 13:23	4° M 14'47 -0°16'39
	11561 Sep 22 01:09	0° M		minimum elong	11562 Aug 16 14:26	4° M 20'00 0°16'50
evening max el	11561 Sep 28 23:57	8° M 41'43	21°18'41	asc. node	11562 Aug 18 07:05	7° M 44'30
desc. node	11561 Oct 03 21:07	12° M 33'48		evening rise	11562 Aug 24 13:49	20° M 34'59
retrograde	11561 Oct 11 00:27	14° M 40'02			11562 Aug 29 07:12	0° B
evening set	11561 Oct 13 14:59	14° M 24'20		evening max el	11562 Sep 11 04:54	19° B 34'14 19°58'48
inferior conj	11561 Oct 22 15:58	10° M 29'22	-5°05'39	desc. node	11562 Sep 20 18:29	24° B 42'52
minimum elong	11561 Oct 22 06:53	10° M 42'07	5°03'18	retrograde	11562 Sep 21 14:35	24° B 44'48
min. Earth dist.	11561 Oct 22 23:20	10° M 19'03	0.54573 AU	evening set	11562 Sep 23 12:47	24° B 34'57
morning rise	11561 Oct 30 23:31	6° M 39'16		inferior conj	11562 Oct 02 11:42	20° B 34'54 -3°32'42
direct	11561 Nov 03 20:33	6° M 06'54		minimum elong	11562 Oct 02 02:39	20° B 48'36 3°29'26
morning max el	11561 Nov 16 13:22	12° M 11'19	22°32'08	min. Earth dist.	11562 Oct 04 08:11	19° B 27'37 0.55028 AU
asc. node	11561 Nov 27 11:14	26° M 18'45		morning rise	11562 Oct 10 15:13	16° B 22'31
	11561 Nov 29 15:27	0° A		direct	11562 Oct 15 07:53	15° B 34'30
morning set	11561 Dec 08 14:36	17° A 35'03		morning max el	11562 Oct 29 00:37	22° B 18'54 24°20'12
	11561 Dec 14 09:45	0° B			11562 Nov 04 19:06	0° M
				asc. node	11562 Nov 14 08:08	14° M 56'15
					11562 Nov 21 23:47	0° A
superior conj	11561 Dec 15 15:03	2° B 36'21	1°35'42	morning set	11562 Nov 23 02:26	2° A 21'30
minimum elong	11561 Dec 15 16:15	2° B 42'46	1°36'23			
max. Earth dist.	11561 Dec 19 03:53	10° B 01'12	1.33958 AU			
evening rise	11561 Dec 23 16:27	19° B 06'14		superior conj	11562 Nov 29 22:29	17° A 15'29 1°39'10
	11561 Dec 29 12:11	0° \approx		minimum elong	11562 Nov 29 22:31	17° A 15'44 1°39'53
desc. node	11561 Dec 30 19:17	2° \approx 18'02		max. Earth dist.	11562 Dec 02 03:20	22° A 02'13 1.32610 AU

	11562 Dec 05 21:44	0° Z		superior conj	11563 Nov 14 09:03	2° Z 00'56	1°36'32
evening rise	11562 Dec 07 08:40	2° Z 59'00		minimum elong	11563 Nov 14 08:03	1° Z 55'21	1°37'06
desc. node	11562 Dec 17 16:14	22° Z 19'54		max. Earth dist.	11563 Nov 15 08:57	4° Z 13'16	1.31746 AU
	11562 Dec 22 07:39	0° \approx		evening rise	11563 Nov 21 09:07	17° Z 12'13	
evening max el	11563 Jan 09 23:27	24° \approx 07'12	27°30'29		11563 Nov 27 19:21	0° Z	
	11563 Jan 17 21:54	0° H		desc. node	11563 Dec 04 13:18	11° Z 56'46	
retrograde	11563 Jan 23 16:50	1° H 30'08			11563 Dec 17 02:08	0° \approx	
	11563 Jan 29 02:35	30° R \approx		evening max el	11563 Dec 23 07:59	6° \approx 46'44	27°23'33
evening set	11563 Jan 30 15:05	29° \approx 01'51		retrograde	11564 Jan 06 05:31	14° \approx 03'36	
min. Earth dist.	11563 Feb 03 09:39	25° \approx 46'21	0.63589 AU	evening set	11564 Jan 13 04:48	11° \approx 48'55	
inferior conj	11563 Feb 06 02:05	23° \approx 02'56	-1°23'07	min. Earth dist.	11564 Jan 16 22:24	8° \approx 57'48	0.61560 AU
minimum elong	11563 Feb 06 04:46	22° \approx 56'07	1°21'31	inferior conj	11564 Jan 19 23:26	6° \approx 13'35	-2°39'10
asc. node	11563 Feb 10 07:01	19° \approx 13'12		minimum elong	11564 Jan 20 04:54	6° \approx 01'17	2°36'26
morning rise	11563 Feb 12 20:38	17° \approx 45'51		morning rise	11564 Jan 27 07:43	1° \approx 14'36	
direct	11563 Feb 15 06:12	17° \approx 17'45		asc. node	11564 Jan 28 04:16	1° \approx 01'54	
morning max el	11563 Feb 21 18:07	20° \approx 38'19	17°47'34	direct	11564 Jan 29 11:50	0° \approx 54'24	
	11563 Feb 28 20:43	0° H		morning max el	11564 Feb 05 10:43	4° \approx 25'09	17°51'06
morning set	11563 Mar 10 05:20	15° H 39'23		morning set	11564 Feb 21 03:00	28° \approx 51'13	
desc. node	11563 Mar 15 17:00	25° H 00'51			11564 Feb 21 18:16	0° H	
	11563 Mar 18 16:17	0° Y		desc. node	11564 Mar 01 13:38	15° H 37'24	
superior conj	11563 Mar 22 20:51	6° Y 54'43	-0°52'27	superior conj	11564 Mar 03 00:21	18° H 06'52	-0°11'07
minimum elong	11563 Mar 22 15:20	6° Y 32'13	0°51'40	minimum elong	11564 Mar 02 23:21	18° H 02'35	0°10'44
max. Earth dist.	11563 Mar 28 16:03	16° Y 15'01	1.44712 AU	behind sun begin	11564 Mar 02 16:59	17° H 35'17	
	11563 Apr 06 11:15	0° Z		behind sun end	11564 Mar 03 05:43	18° H 29'51	
evening rise	11563 Apr 07 07:49	1° Z 19'00			11564 Mar 10 02:55	0° Y	
	11563 Apr 26 17:40	0° II		max. Earth dist.	11564 Mar 10 06:59	0° Y 16'35	1.43232 AU
evening max el	11563 May 05 23:17	11° II 24'43	20°34'39	evening rise	11564 Mar 17 01:22	11° Y 04'41	
asc. node	11563 May 09 04:27	14° II 13'21			11564 Mar 29 13:36	0° Z	
retrograde	11563 May 14 02:14	16° II 07'37		evening max el	11564 Apr 17 19:21	25° Z 10'05	21°47'38
evening set	11563 May 18 04:10	14° II 32'32			11564 Apr 24 06:19	0° II	
inferior conj	11563 May 23 10:48	8° II 25'14	3°12'08	asc. node	11564 Apr 25 01:41	0° II 17'21	
minimum elong	11563 May 23 10:00	8° II 27'59	3°11'24	retrograde	11564 Apr 27 00:21	0° II 35'28	
min. Earth dist.	11563 May 24 02:09	7° II 32'25	0.68186 AU		11564 Apr 29 14:24	30° R Z	
morning rise	11563 May 28 15:35	2° II 06'41		evening set	11564 May 01 12:45	28° Z 44'52	
	11563 Jun 01 02:33	30° R Z		inferior conj	11564 May 06 19:30	22° Z 27'01	2°57'34
direct	11563 Jun 03 03:11	29° Z 41'02		minimum elong	11564 May 06 17:54	22° Z 32'37	2°56'46
	11563 Jun 05 06:19	0° II		min. Earth dist.	11564 May 06 21:43	22° Z 19'15	0.68674 AU
desc. node	11563 Jun 11 17:58	3° II 59'02		morning rise	11564 May 11 22:50	16° Z 13'24	
morning max el	11563 Jun 14 05:07	6° II 19'00	24°03'22	direct	11564 May 16 21:22	14° Z 05'45	
	11563 Jul 02 14:00	0° Z		morning max el	11564 May 26 16:08	19° Z 52'16	22°33'38
morning set	11563 Jul 19 15:49	27° Z 11'03		desc. node	11564 May 28 14:54	21° Z 55'43	
	11563 Jul 21 06:51	0° Z			11564 Jun 04 05:47	0° II	
max. Earth dist.	11563 Jul 23 09:22	3° Z 42'37	1.38300 AU		11564 Jun 24 18:26	0° Z	
superior conj	11563 Jul 30 16:25	17° Z 08'48	-0°50'14	morning set	11564 Jun 29 11:29	7° Z 34'08	
minimum elong	11563 Jul 30 19:51	17° Z 25'08	0°50'11	max. Earth dist.	11564 Jul 04 07:17	15° Z 35'51	1.40608 AU
asc. node	11563 Aug 05 03:51	27° Z 45'51		superior conj	11564 Jul 12 03:00	29° Z 16'02	-1°23'38
	11563 Aug 06 07:05	0° H		minimum elong	11564 Jul 12 08:48	29° Z 42'13	1°23'31
evening rise	11563 Aug 08 14:06	4° H 31'20			11564 Jul 12 12:45	0° Z	
	11563 Aug 23 19:05	0° Z		evening rise	11564 Jul 22 04:55	17° Z 58'57	
evening max el	11563 Aug 24 23:34	1° Z 15'21	19°00'07	asc. node	11564 Jul 22 00:39	17° Z 38'52	
retrograde	11563 Sep 02 18:26	5° Z 38'35			11564 Jul 28 17:16	0° H	
evening set	11563 Sep 04 15:14	5° Z 27'29		evening max el	11564 Aug 07 04:42	13° H 38'44	18°22'42
desc. node	11563 Sep 07 15:52	4° Z 26'40		retrograde	11564 Aug 14 17:08	17° H 25'53	
inferior conj	11563 Sep 12 23:44	1° Z 12'06	-1°40'11	evening set	11564 Aug 16 19:49	17° H 08'44	
minimum elong	11563 Sep 12 19:25	1° Z 19'36	1°38'33	inferior conj	11564 Aug 24 09:16	12° H 33'03	0°03'03
	11563 Sep 14 17:01	30° R H		minimum elong	11564 Aug 24 09:22	12° H 32'51	0°02'43
min. Earth dist.	11563 Sep 15 21:40	29° H 11'01	0.56357 AU	transit middle	11564 Aug 24 09:22	12° H 32'51	0°02'43
morning rise	11563 Sep 20 20:27	26° H 23'37		transit begin	11564 Aug 24 05:54	12° H 39'55	
direct	11563 Sep 26 08:20	25° H 12'25		transit end	11564 Aug 24 12:50	12° H 25'46	
	11563 Oct 07 17:04	0° Z		desc. node	11564 Aug 24 13:14	12° H 24'58	
morning max el	11563 Oct 10 13:06	2° Z 29'39	25°59'49	min. Earth dist.	11564 Aug 27 17:14	9° H 51'31	0.58312 AU
	11563 Oct 30 00:46	0° H		morning rise	11564 Aug 31 19:24	7° H 08'23	
asc. node	11563 Nov 01 04:57	4° H 05'02		direct	11564 Sep 06 23:21	5° H 28'45	
morning set	11563 Nov 07 13:31	17° H 02'32		morning max el	11564 Sep 21 07:36	13° H 09'22	27°14'17
	11563 Nov 13 11:16	0° Z			11564 Oct 04 16:06	0° Z	

asc. node	11564 Oct 18 01:44	23°♄36'20			11565 Sep 08 08:32	0°♍		
	11564 Oct 21 04:31	0°♍			11565 Sep 28 00:57	0°♄		
morning set	11564 Oct 21 22:08	1°♍33'01		asc. node	11565 Oct 04 22:30	13°♄23'45		
				morning set	11565 Oct 06 02:30	15°♄48'21		
superior conj	11564 Oct 28 20:47	16°♍46'14	1°28'08	max. Earth dist.	11565 Oct 12 02:03	28°♄41'07	1.31503 AU	
minimum elong	11564 Oct 28 18:59	16°♍36'13	1°28'26		11565 Oct 12 16:20	0°♍		
max. Earth dist.	11564 Oct 28 17:42	16°♍29'03	1.31376 AU					
	11564 Nov 03 20:48	0°♄		superior conj	11565 Oct 13 07:50	1°♍25'54	1°14'12	
evening rise	11564 Nov 04 15:15	1°♄38'50		minimum elong	11565 Oct 13 05:37	1°♍13'37	1°14'12	
	11564 Nov 19 19:30	0°♄		evening rise	11565 Oct 20 00:56	16°♍13'06		
desc. node	11564 Nov 20 10:28	0°♄58'34			11565 Oct 26 18:44	0°♄		
evening max el	11564 Dec 04 10:29	18°♄40'02	26°42'21	desc. node	11565 Nov 07 07:41	19°♄11'37		
retrograde	11564 Dec 18 09:10	25°♄48'03		evening max el	11565 Nov 16 04:51	29°♄41'21	25°28'51	
evening set	11564 Dec 25 01:41	23°♄56'16			11565 Nov 16 12:47	0°♄		
min. Earth dist.	11564 Dec 29 00:37	21°♄19'05	0.59422 AU	retrograde	11565 Nov 30 01:42	6°♄40'05		
inferior conj	11565 Jan 01 04:45	18°♄49'43	-3°57'09	evening set	11565 Dec 06 01:08	5°♄18'18		
minimum elong	11565 Jan 01 12:35	18°♄34'17	3°53'56	min. Earth dist.	11565 Dec 10 17:05	2°♄39'54	0.57389 AU	
morning rise	11565 Jan 09 02:16	14°♄11'30		inferior conj	11565 Dec 13 14:42	0°♄41'29	-5°05'53	
direct	11565 Jan 11 04:33	13°♄55'32		minimum elong	11565 Dec 13 22:30	0°♄28'11	5°03'32	
asc. node	11565 Jan 14 01:27	14°♄27'00			11565 Dec 14 15:11	30°♄		
morning max el	11565 Jan 18 22:43	17°♄45'55	18°13'56	morning rise	11565 Dec 21 22:12	26°♄25'41		
	11565 Jan 27 16:35	0°♄		direct	11565 Dec 24 04:10	26°♄10'25		
morning set	11565 Feb 03 15:36	12°♄44'14		asc. node	11565 Dec 31 22:36	29°♄26'55		
	11565 Feb 12 21:51	0°♄			11566 Jan 01 13:39	0°♄		
				morning max el	11566 Jan 02 02:10	0°♄29'25	18°57'51	
superior conj	11565 Feb 13 03:10	0°♄24'05	0°25'34	morning set	11566 Jan 18 14:19	27°♄03'47		
minimum elong	11565 Feb 13 05:03	0°♄32'34	0°25'41		11566 Jan 20 02:04	0°♄		
desc. node	11565 Feb 16 10:21	6°♄17'21						
max. Earth dist.	11565 Feb 20 17:33	13°♄42'51	1.41285 AU	superior conj	11566 Jan 27 00:46	13°♄33'07	0°55'00	
evening rise	11565 Feb 25 12:36	21°♄40'20		minimum elong	11566 Jan 27 03:41	13°♄47'06	0°55'09	
	11565 Mar 02 18:02	0°♄		max. Earth dist.	11566 Feb 03 00:42	26°♄28'09	1.39090 AU	
	11565 Mar 23 16:50	0°♄		desc. node	11566 Feb 03 07:05	26°♄56'33		
evening max el	11565 Mar 31 11:27	8°♄58'14	23°07'09		11566 Feb 05 00:46	0°♄		
retrograde	11565 Apr 10 20:10	15°♄05'12		evening rise	11566 Feb 06 21:05	3°♄11'21		
asc. node	11565 Apr 11 22:57	14°♄59'18			11566 Feb 23 22:28	0°♄		
evening set	11565 Apr 15 19:56	13°♄00'02		evening max el	11566 Mar 14 01:23	22°♄48'24	24°27'13	
inferior conj	11565 Apr 21 04:48	6°♄34'29	2°32'59	retrograde	11566 Mar 25 12:26	29°♄30'46		
minimum elong	11565 Apr 21 02:43	6°♄41'41	2°32'06	asc. node	11566 Mar 29 20:17	28°♄06'01		
min. Earth dist.	11565 Apr 20 18:32	7°♄10'00	0.68707 AU	evening set	11566 Mar 31 00:10	27°♄12'50		
morning rise	11565 Apr 26 09:23	0°♄27'14		min. Earth dist.	11566 Apr 04 14:19	21°♄58'26	0.68298 AU	
	11565 Apr 26 23:39	30°♄		inferior conj	11566 Apr 05 12:46	20°♄43'10	1°58'43	
direct	11565 Apr 30 18:45	28°♄40'32		minimum elong	11566 Apr 05 10:38	20°♄50'20	1°57'52	
	11565 May 04 22:04	0°♄		morning rise	11566 Apr 10 21:14	14°♄43'37		
morning max el	11565 May 09 07:44	3°♄35'38	21°09'36	direct	11566 Apr 14 17:55	13°♄18'25		
desc. node	11565 May 15 11:45	10°♄43'13		morning max el	11566 Apr 22 06:37	17°♄30'59	19°57'05	
	11565 May 29 05:17	0°♄		desc. node	11566 May 02 08:33	0°♄07'13		
morning set	11565 Jun 09 05:24	16°♄48'34			11566 May 02 06:30	0°♄		
max. Earth dist.	11565 Jun 16 11:19	28°♄24'17	1.42723 AU	morning set	11566 May 19 06:24	25°♄21'32		
	11565 Jun 17 10:43	0°♄			11566 May 22 06:30	0°♄		
				max. Earth dist.	11566 May 29 22:39	12°♄02'59	1.44383 AU	
superior conj	11565 Jun 23 16:42	10°♄27'18	-1°52'26					
minimum elong	11565 Jun 23 23:20	10°♄55'39	1°52'36	superior conj	11566 Jun 04 06:20	20°♄36'15	-2°10'29	
	11565 Jul 04 19:26	0°♄		minimum elong	11566 Jun 04 09:56	20°♄50'52	2°11'04	
evening rise	11565 Jul 05 06:09	0°♄48'07			11566 Jun 09 23:21	0°♄		
asc. node	11565 Jul 08 21:32	7°♄19'31		evening rise	11566 Jun 17 12:54	12°♄47'06		
evening max el	11565 Jul 21 16:08	26°♄34'35	18°05'20	asc. node	11566 Jun 25 18:29	26°♄42'17		
	11565 Jul 27 23:17	0°♄			11566 Jun 27 19:45	0°♄		
retrograde	11565 Jul 28 09:28	0°♄00'50		evening max el	11566 Jul 05 06:02	9°♄52'59	18°07'02	
	11565 Jul 28 19:41	30°♄		retrograde	11566 Jul 11 15:12	13°♄13'18		
evening set	11565 Jul 30 20:01	29°♄33'50		evening set	11566 Jul 14 09:44	12°♄33'44		
inferior conj	11565 Aug 06 15:30	24°♄37'37	1°23'31	inferior conj	11566 Jul 20 14:45	7°♄18'54	2°19'38	
minimum elong	11565 Aug 06 17:48	24°♄32'11	1°22'16	minimum elong	11566 Jul 20 17:24	7°♄11'48	2°18'20	
min. Earth dist.	11565 Aug 09 20:41	21°♄36'44	0.60562 AU	min. Earth dist.	11566 Jul 23 09:26	4°♄20'59	0.62802 AU	
desc. node	11565 Aug 11 10:35	20°♄15'49		morning rise	11566 Jul 26 23:09	1°♄07'59		
morning rise	11565 Aug 13 12:45	18°♄44'44			11566 Jul 28 17:06	30°♄		
direct	11565 Aug 20 02:31	16°♄37'29		desc. node	11566 Jul 29 07:52	29°♄40'55		
morning max el	11565 Sep 03 09:21	24°♄32'57	27°52'58	direct	11566 Aug 02 15:49	28°♄39'13		

	11566 Aug 07 23:11	0°♎		direct	11567 Jul 16 13:42	11°♊27'45	
morning max el	11566 Aug 16 16:54	6°♎41'33	27°53'05	morning max el	11567 Jul 30 03:23	19°♊25'50	27°17'57
	11566 Sep 03 11:06	0°♎			11567 Aug 08 03:13	0°♎	
morning set	11566 Sep 20 00:28	29°♎43'08			11567 Aug 27 11:38	0°♎	
	11566 Sep 20 03:48	0°♎		morning set	11567 Sep 03 13:20	13°♎09'40	
asc. node	11566 Sep 21 19:14	3°♎22'02		max. Earth dist.	11567 Sep 08 01:49	22°♎13'06	1.33280 AU
max. Earth dist.	11566 Sep 25 06:04	10°♎39'01	1.32133 AU	asc. node	11567 Sep 08 15:56	23°♎25'53	
superior conj	11566 Sep 27 16:20	15°♎54'38	0°54'56	superior conj	11567 Sep 11 20:08	0°♎05'42	0°30'35
minimum elong	11566 Sep 27 14:12	15°♎42'57	0°54'41	minimum elong	11567 Sep 11 18:40	29°♎57'56	0°30'14
	11566 Oct 04 03:01	0°♎			11567 Sep 11 19:04	0°♎	
evening rise	11566 Oct 04 12:13	0°♎49'35		evening rise	11567 Sep 18 23:11	15°♎22'01	
	11566 Oct 20 09:32	0°♎			11567 Sep 26 05:40	0°♎	
desc. node	11566 Oct 25 04:57	6°♎17'29		evening max el	11567 Oct 10 03:48	20°♎04'44	22°12'35
evening max el	11566 Oct 28 16:14	9°♎59'54	23°53'21	desc. node	11567 Oct 12 02:16	21°♎50'26	
retrograde	11566 Nov 11 05:59	16°♎46'40		retrograde	11567 Oct 22 22:44	26°♎26'22	
evening set	11566 Nov 16 00:24	15°♎57'00		evening set	11567 Oct 26 05:53	26°♎02'16	
min. Earth dist.	11566 Nov 22 02:44	12°♎58'23	0.55730 AU	min. Earth dist.	11567 Nov 03 09:46	22°♎25'30	0.54740 AU
inferior conj	11566 Nov 24 04:12	11°♎44'05	-5°46'37	inferior conj	11567 Nov 04 01:15	22°♎03'43	-5°37'42
minimum elong	11566 Nov 24 07:01	11°♎39'50	5°45'47	minimum elong	11567 Nov 03 19:37	22°♎11'39	5°36'30
morning rise	11566 Dec 02 15:35	7°♎48'20		morning rise	11567 Nov 12 10:46	18°♎16'39	
direct	11566 Dec 05 08:13	7°♎30'02		direct	11567 Nov 15 20:14	17°♎50'58	
morning max el	11566 Dec 15 17:29	12°♎26'16	20°04'28	morning max el	11567 Nov 27 18:55	23°♎30'49	21°33'10
asc. node	11566 Dec 18 19:42	15°♎48'22			11567 Dec 03 10:24	0°♎	
	11566 Dec 27 21:13	0°♎		asc. node	11567 Dec 05 16:42	3°♎13'58	
morning set	11567 Jan 02 19:45	11°♎40'06		morning set	11567 Dec 18 05:14	26°♎24'45	
					11567 Dec 19 22:11	0°♎	
superior conj	11567 Jan 10 12:27	27°♎21'19	1°16'37				
minimum elong	11567 Jan 10 15:11	27°♎34'58	1°16'59	superior conj	11567 Dec 25 10:12	11°♎36'19	1°30'44
	11567 Jan 11 20:20	0°♎		minimum elong	11567 Dec 25 12:03	11°♎45'58	1°31'20
max. Earth dist.	11567 Jan 16 07:28	8°♎37'58	1.36897 AU	max. Earth dist.	11567 Dec 29 18:32	20°♎30'00	1.34925 AU
evening rise	11567 Jan 20 01:37	15°♎33'57		evening rise	11568 Jan 02 22:49	28°♎38'54	
desc. node	11567 Jan 21 03:53	17°♎31'40			11568 Jan 03 15:59	0°♎	
	11567 Jan 28 11:32	0°♎		desc. node	11568 Jan 08 00:43	7°♎58'01	
	11567 Feb 18 12:57	0°♎			11568 Jan 21 17:00	0°♎	
evening max el	11567 Feb 24 14:42	6°♎38'29	25°40'53	evening max el	11568 Feb 07 04:11	20°♎23'03	26°41'00
retrograde	11567 Mar 09 00:14	13°♎46'25		retrograde	11568 Feb 20 06:47	27°♎44'46	
evening set	11567 Mar 14 23:49	11°♎18'43		evening set	11568 Feb 26 17:05	25°♎11'58	
asc. node	11567 Mar 16 17:37	9°♎39'19		min. Earth dist.	11568 Mar 01 18:25	21°♎06'47	0.66230 AU
min. Earth dist.	11567 Mar 19 06:59	6°♎39'25	0.67464 AU	asc. node	11568 Mar 02 14:57	20°♎06'27	
inferior conj	11567 Mar 20 17:32	4°♎49'32	1°14'47	inferior conj	11568 Mar 03 16:57	18°♎49'02	0°21'01
minimum elong	11567 Mar 20 15:51	4°♎54'53	1°14'11	minimum elong	11568 Mar 03 16:23	18°♎50'43	0°21'00
	11567 Mar 25 00:21	30°♎		morning rise	11568 Mar 09 16:48	13°♎09'26	
morning rise	11567 Mar 26 08:26	28°♎59'03		direct	11568 Mar 12 15:18	12°♎21'32	
direct	11567 Mar 29 17:21	27°♎53'57		morning max el	11568 Mar 19 02:06	15°♎47'04	18°18'02
	11567 Apr 03 17:31	0°♎			11568 Mar 29 16:01	0°♎	
morning max el	11567 Apr 05 13:13	1°♎36'39	18°59'23	desc. node	11568 Apr 05 01:57	10°♎08'12	
greatest brilliancy	11567 Apr 18 23:25	19°♎35'48	-0.8m	morning set	11568 Apr 07 16:37	14°♎18'37	
desc. node	11567 Apr 19 05:16	19°♎57'58			11568 Apr 17 13:43	0°♎	
	11567 Apr 25 18:08	0°♎					
morning set	11567 Apr 28 11:39	4°♎13'40		superior conj	11568 Apr 23 05:10	8°♎51'30	-1°51'29
max. Earth dist.	11567 May 12 15:06	26°♎15'22	1.45412 AU	minimum elong	11568 Apr 22 20:06	8°♎16'00	1°51'10
				max. Earth dist.	11568 Apr 24 10:15	10°♎45'11	1.45716 AU
superior conj	11567 May 14 22:25	29°♎52'37	-2°11'06		11568 May 06 18:08	0°♎	
minimum elong	11567 May 14 18:49	29°♎38'28	2°11'37	evening rise	11568 May 09 04:41	3°♎48'55	
	11567 May 15 00:17	0°♎		greatest brilliancy	11568 May 19 21:37	20°♎28'26	-0.8m
evening rise	11567 May 29 20:43	23°♎46'52			11568 May 26 09:12	0°♎	
	11567 Jun 02 16:23	0°♎		asc. node	11568 May 29 12:34	4°♎06'16	
asc. node	11567 Jun 12 15:29	15°♎40'37		evening max el	11568 Jun 01 05:08	7°♎06'43	19°04'23
evening max el	11567 Jun 18 19:12	23°♎25'41	18°26'59	retrograde	11568 Jun 08 01:40	10°♎55'18	
retrograde	11567 Jun 25 05:49	26°♎53'53		evening set	11568 Jun 11 12:48	9°♎45'41	
evening set	11567 Jun 28 08:26	25°♎59'52		inferior conj	11568 Jun 17 00:18	3°♎59'22	3°12'07
inferior conj	11567 Jul 04 02:54	20°♎28'28	2°54'33	minimum elong	11568 Jun 17 01:11	3°♎56'32	3°11'18
minimum elong	11567 Jul 04 04:51	20°♎22'38	2°53'30	min. Earth dist.	11568 Jun 18 14:12	1°♎58'03	0.66477 AU
min. Earth dist.	11567 Jul 06 07:38	17°♎52'15	0.64820 AU		11568 Jun 20 05:07	30°♎	
morning rise	11567 Jul 10 00:09	14°♎08'37		morning rise	11568 Jun 22 12:58	27°♎37'09	
desc. node	11567 Jul 16 05:06	11°♎28'12		direct	11568 Jun 28 18:48	24°♎54'53	

desc. node	11568 Jul 02 02:14	25° Π 33'30		inferior conj	11569 Jun 01 03:59	17° Π 45'17	3°15'35
	11568 Jul 08 21:31	0° \mathfrak{C}		minimum elong	11569 Jun 01 03:45	17° Π 46'04	3°14'52
morning max el	11568 Jul 11 14:12	2° \mathfrak{C} 33'45	26°15'11	min. Earth dist.	11569 Jun 02 03:20	16° Π 26'30	0.67698 AU
	11568 Aug 01 07:51	0° Ω		morning rise	11569 Jun 06 10:50	11° Π 24'51	
morning set	11568 Aug 16 13:47	25° Ω 59'48		direct	11569 Jun 12 05:45	8° Π 50'52	
	11568 Aug 18 16:43	0° \mathfrak{M}		desc. node	11569 Jun 18 23:18	11° Π 29'42	
max. Earth dist.	11568 Aug 20 11:06	3° \mathfrak{M} 24'21	1.34931 AU	morning max el	11569 Jun 24 00:06	15° Π 54'21	24°54'14
					11569 Jul 05 15:03	0° \mathfrak{C}	
superior conj	11568 Aug 25 16:50	13° \mathfrak{M} 53'18	0°01'42		11569 Jul 25 06:04	0° Ω	
minimum elong	11568 Aug 25 16:45	13° \mathfrak{M} 52'53	0°01'25	morning set	11569 Jul 29 21:32	8° Ω 02'09	
behind sun begin	11568 Aug 25 10:48	13° \mathfrak{M} 22'26		max. Earth dist.	11569 Aug 02 11:26	14° Ω 29'43	1.36998 AU
behind sun end	11568 Aug 25 22:42	14° \mathfrak{M} 23'23					
asc. node	11568 Aug 25 12:39	13° \mathfrak{M} 31'50		superior conj	11569 Aug 09 03:22	27° Ω 09'22	-0°30'42
evening rise	11568 Sep 02 07:54	29° \mathfrak{M} 45'28		minimum elong	11569 Aug 09 05:23	27° Ω 19'11	0°30'47
	11568 Sep 02 10:42	0° \mathfrak{A}			11569 Aug 10 14:02	0° \mathfrak{M}	
	11568 Sep 20 11:45	0° \mathfrak{M}		asc. node	11569 Aug 12 09:23	3° \mathfrak{M} 35'50	
evening max el	11568 Sep 21 01:02	0° \mathfrak{M} 33'44	20°42'19	evening rise	11569 Aug 17 12:01	13° \mathfrak{M} 53'33	
desc. node	11568 Sep 27 23:36	5° \mathfrak{M} 21'37			11569 Aug 25 23:16	0° \mathfrak{A}	
retrograde	11568 Oct 02 09:56	6° \mathfrak{M} 12'18		evening max el	11569 Sep 03 12:09	11° \mathfrak{A} 47'24	19°31'14
evening set	11568 Oct 04 15:10	6° \mathfrak{M} 00'21		retrograde	11569 Sep 13 04:21	16° \mathfrak{A} 36'23	
inferior conj	11568 Oct 13 17:14	2° \mathfrak{M} 05'09	-4°30'50	desc. node	11569 Sep 14 20:57	16° \mathfrak{A} 28'11	
minimum elong	11568 Oct 13 07:15	2° \mathfrak{M} 19'29	4°27'47	evening set	11569 Sep 15 00:49	16° \mathfrak{A} 26'34	
min. Earth dist.	11568 Oct 14 17:28	1° \mathfrak{M} 30'23	0.54653 AU	inferior conj	11569 Sep 23 18:41	12° \mathfrak{A} 21'08	-2°45'22
	11568 Oct 17 11:11	30° \mathfrak{R} \mathfrak{A}		minimum elong	11569 Sep 23 11:25	12° \mathfrak{A} 32'44	2°42'35
morning rise	11568 Oct 21 23:09	28° \mathfrak{A} 07'33		min. Earth dist.	11569 Sep 26 03:56	10° \mathfrak{A} 50'05	0.55504 AU
direct	11568 Oct 26 04:34	27° \mathfrak{A} 29'11		morning rise	11569 Oct 01 19:50	7° \mathfrak{A} 54'38	
	11568 Nov 03 09:30	0° \mathfrak{M}		direct	11569 Oct 06 21:13	6° \mathfrak{A} 57'24	
morning max el	11568 Nov 08 09:10	3° \mathfrak{M} 52'03	23°17'47	morning max el	11569 Oct 20 19:49	13° \mathfrak{A} 56'21	25°04'35
asc. node	11568 Nov 21 13:38	21° \mathfrak{M} 28'58			11569 Nov 02 10:09	0° \mathfrak{M}	
	11568 Nov 26 05:18	0° \mathfrak{A}		asc. node	11569 Nov 08 10:30	10° \mathfrak{M} 21'15	
morning set	11568 Dec 01 16:45	11° \mathfrak{A} 12'03		morning set	11569 Nov 16 04:30	25° \mathfrak{M} 57'10	
					11569 Nov 18 01:25	0° \mathfrak{A}	
superior conj	11568 Dec 08 14:51	26° \mathfrak{A} 09'00	1°37'56				
minimum elong	11568 Dec 08 15:34	26° \mathfrak{A} 12'50	1°38'39	superior conj	11569 Nov 22 23:54	10° \mathfrak{A} 51'57	1°38'46
	11568 Dec 10 10:00	0° \mathfrak{C}		minimum elong	11569 Nov 22 23:29	10° \mathfrak{A} 49'37	1°39'26
max. Earth dist.	11568 Dec 11 13:25	2° \mathfrak{C} 25'02	1.33332 AU	max. Earth dist.	11569 Nov 24 16:01	14° \mathfrak{A} 31'53	1.32189 AU
evening rise	11568 Dec 16 09:06	12° \mathfrak{C} 17'11		evening rise	11569 Nov 30 05:14	26° \mathfrak{A} 20'19	
desc. node	11568 Dec 24 21:38	28° \mathfrak{C} 10'40			11569 Dec 02 00:29	0° \mathfrak{C}	
	11568 Dec 25 22:54	0° \approx		desc. node	11569 Dec 11 18:37	18° \mathfrak{C} 03'23	
	11569 Jan 15 23:24	0° \mathfrak{H}			11569 Dec 19 08:11	0° \approx	
evening max el	11569 Jan 19 17:24	3° \mathfrak{H} 53'00	27°20'12	evening max el	11570 Jan 02 04:35	16° \approx 56'02	27°31'39
retrograde	11569 Feb 02 07:01	11° \mathfrak{H} 17'30		retrograde	11570 Jan 16 00:02	24° \approx 16'01	
evening set	11569 Feb 09 01:50	8° \mathfrak{H} 45'44		evening set	11570 Jan 22 23:28	21° \approx 52'48	
min. Earth dist.	11569 Feb 12 22:32	5° \mathfrak{H} 12'48	0.64640 AU	min. Earth dist.	11570 Jan 26 17:18	18° \approx 48'25	0.62752 AU
inferior conj	11569 Feb 15 08:37	2° \mathfrak{H} 35'57	-0°42'29	inferior conj	11570 Jan 29 13:42	16° \approx 03'16	-1°54'41
minimum elong	11569 Feb 15 09:54	2° \mathfrak{H} 32'28	0°41'33	minimum elong	11570 Jan 29 17:31	15° \approx 54'00	1°52'33
asc. node	11569 Feb 17 12:16	0° \mathfrak{H} 21'13		asc. node	11570 Feb 04 09:32	11° \approx 23'58	
	11569 Feb 17 21:02	30° \mathfrak{R} \approx		morning rise	11570 Feb 05 13:58	10° \approx 53'11	
morning rise	11569 Feb 21 19:46	27° \approx 09'33		direct	11570 Feb 07 20:57	10° \approx 28'47	
direct	11569 Feb 24 09:28	26° \approx 35'17		morning max el	11570 Feb 14 12:26	13° \approx 52'29	17°46'47
	11569 Mar 02 20:54	0° \mathfrak{H}			11570 Feb 25 15:49	0° \mathfrak{H}	
morning max el	11569 Mar 02 18:49	29° \approx 54'52	17°53'39	morning set	11570 Mar 02 13:10	8° \mathfrak{H} 30'30	
morning set	11569 Mar 20 02:34	25° \mathfrak{H} 48'57		desc. node	11570 Mar 09 19:15	21° \mathfrak{H} 05'42	
desc. node	11569 Mar 22 22:35	0° \mathfrak{Y} 32'08					
	11569 Mar 22 14:51	0° \mathfrak{Y}		superior conj	11570 Mar 14 09:49	28° \mathfrak{H} 51'59	-0°34'37
				minimum elong	11570 Mar 14 06:20	28° \mathfrak{H} 37'29	0°34'00
superior conj	11569 Apr 02 20:36	18° \mathfrak{Y} 19'53	-1°16'12		11570 Mar 15 02:12	0° \mathfrak{Y}	
minimum elong	11569 Apr 02 12:34	17° \mathfrak{Y} 47'49	1°15'22	max. Earth dist.	11570 Mar 20 23:41	9° \mathfrak{Y} 36'50	1.44158 AU
max. Earth dist.	11569 Apr 07 05:52	25° \mathfrak{Y} 17'17	1.45283 AU	evening rise	11570 Mar 29 07:52	22° \mathfrak{Y} 43'39	
	11569 Apr 10 05:59	0° \mathfrak{B}			11570 Apr 03 02:07	0° \mathfrak{B}	
evening rise	11569 Apr 18 19:32	13° \mathfrak{B} 14'50			11570 Apr 24 07:02	0° Π	
	11569 Apr 29 20:39	0° Π		evening max el	11570 Apr 28 09:18	4° Π 36'08	21°04'32
greatest brilliancy	11569 May 03 15:43	5° Π 35'53	-0.6m	asc. node	11570 May 03 06:55	8° Π 32'23	
evening max el	11569 May 15 10:04	20° Π 50'52	19°57'46	retrograde	11570 May 06 22:40	9° Π 36'12	
asc. node	11569 May 16 09:43	21° Π 47'57		evening set	11570 May 11 05:03	7° Π 54'17	
retrograde	11569 May 22 23:59	25° Π 11'03		inferior conj	11570 May 16 11:28	1° Π 42'20	3°07'11
evening set	11569 May 26 20:20	23° Π 45'13		minimum elong	11570 May 16 10:18	1° Π 46'24	3°06'27

min. Earth dist.	11570 May 16 21:06	1°II08'53	0.68457 AU	evening set	11571 Apr 25 13:15	22°808'29	
	11570 May 17 17:08	30°R8		inferior conj	11571 Apr 30 20:40	15°846'50	2°48'19
morning rise	11570 May 21 15:20	25°825'56		minimum elong	11571 Apr 30 18:49	15°853'17	2°47'29
direct	11570 May 26 21:30	23°807'29		min. Earth dist.	11571 Apr 30 17:25	15°858'08	0.68746 AU
desc. node	11570 Jun 05 20:19	28°849'13		morning rise	11571 May 06 00:14	9°835'56	
morning max el	11570 Jun 06 10:04	29°823'23	23°25'00	direct	11571 May 10 17:03	7°837'15	
	11570 Jun 07 00:22	0°II		morning max el	11571 May 19 22:49	13°801'15	21°56'49
	11570 Jun 29 09:41	0°8		desc. node	11571 May 23 17:15	17°809'35	
morning set	11570 Jul 11 07:39	19°804'23			11571 Jun 02 11:49	0°II	
max. Earth dist.	11570 Jul 15 08:49	26°800'04	1.39292 AU	morning set	11571 Jun 21 16:11	28°II57'43	
	11570 Jul 17 15:23	0°8			11571 Jun 22 07:42	0°8	
				max. Earth dist.	11571 Jun 27 09:17	8°817'40	1.41544 AU
superior conj	11570 Jul 22 23:57	9°844'35	-1°04'37				
minimum elong	11570 Jul 23 04:27	10°805'33	1°04'31	superior conj	11571 Jul 05 02:09	21°828'57	-1°36'44
asc. node	11570 Jul 30 06:09	23°834'03		minimum elong	11571 Jul 05 08:38	21°857'30	1°36'41
evening rise	11570 Aug 01 08:42	27°838'45			11571 Jul 09 20:26	0°8	
	11570 Aug 02 13:58	0°8		evening rise	11571 Jul 15 18:20	10°851'50	
evening max el	11570 Aug 17 11:42	23°847'04	18°41'38	asc. node	11571 Jul 17 03:00	13°822'38	
retrograde	11570 Aug 25 16:14	27°853'24			11571 Jul 26 17:55	0°8	
evening set	11570 Aug 27 15:08	27°840'11		evening max el	11571 Jul 31 19:57	6°825'25	18°12'57
desc. node	11570 Sep 01 18:21	25°818'31		retrograde	11571 Aug 07 23:06	10°802'18	
inferior conj	11570 Sep 04 15:37	23°815'59	-0°54'07	evening set	11571 Aug 10 04:54	9°841'28	
minimum elong	11570 Sep 04 13:24	23°820'05	0°53'23	inferior conj	11571 Aug 17 10:22	4°856'50	0°40'11
min. Earth dist.	11570 Sep 07 19:27	20°855'50	0.57130 AU	minimum elong	11571 Aug 17 11:40	4°854'00	0°39'20
morning rise	11570 Sep 12 08:16	18°811'44		desc. node	11571 Aug 19 15:44	3°800'21	
direct	11570 Sep 18 03:29	16°849'05		min. Earth dist.	11571 Aug 20 18:19	2°804'12	0.59240 AU
morning max el	11570 Oct 02 10:29	24°816'33	26°35'31		11571 Aug 23 12:25	30°R8	
	11570 Oct 07 16:17	0°8		morning rise	11571 Aug 24 15:05	29°818'35	
asc. node	11570 Oct 26 07:18	29°840'44		direct	11571 Aug 30 23:47	27°826'57	
	11570 Oct 26 11:14	0°8			11571 Sep 07 20:15	0°8	
morning set	11570 Oct 31 14:46	10°834'35		morning max el	11571 Sep 14 08:27	5°815'30	27°35'37
					11571 Oct 02 17:07	0°8	
superior conj	11570 Nov 07 11:11	25°838'01	1°33'40	asc. node	11571 Oct 13 04:04	19°820'06	
minimum elong	11570 Nov 07 09:48	25°830'21	1°34'08	morning set	11571 Oct 15 21:52	25°800'01	
max. Earth dist.	11570 Nov 07 23:38	26°847'15	1.31529 AU		11571 Oct 18 06:00	0°8	
	11570 Nov 09 10:21	0°8					
evening rise	11570 Nov 14 08:22	10°840'06		superior conj	11571 Oct 22 22:52	10°822'04	1°22'54
	11570 Nov 24 06:18	0°8		minimum elong	11571 Oct 22 20:51	10°810'47	1°23'05
desc. node	11570 Nov 28 15:43	7°827'04		max. Earth dist.	11571 Oct 22 08:44	9°803'24	1.31364 AU
evening max el	11570 Dec 15 10:54	29°817'23	27°10'13	evening rise	11571 Oct 29 16:16	25°810'55	
	11570 Dec 16 05:19	0°8			11571 Oct 31 23:01	0°8	
retrograde	11570 Dec 29 08:48	6°830'03		desc. node	11571 Nov 15 12:53	26°810'32	
evening set	11571 Jan 05 06:33	4°823'53			11571 Nov 18 04:38	0°8	
min. Earth dist.	11571 Jan 09 01:21	1°840'34	0.60660 AU	evening max el	11571 Nov 27 09:49	10°847'59	26°14'33
	11571 Jan 11 01:03	30°R8		retrograde	11571 Dec 11 08:08	17°852'50	
inferior conj	11571 Jan 12 04:41	29°800'42	-3°12'27	evening set	11571 Dec 17 18:56	16°812'44	
minimum elong	11571 Jan 12 11:17	28°846'39	3°09'23	min. Earth dist.	11571 Dec 21 23:03	13°837'21	0.58534 AU
morning rise	11571 Jan 19 18:48	24°810'19		inferior conj	11571 Dec 25 02:04	11°818'53	-4°28'19
direct	11571 Jan 21 21:45	23°852'15		minimum elong	11571 Dec 25 10:21	11°803'33	4°25'18
asc. node	11571 Jan 22 06:47	23°852'51		morning rise	11572 Jan 02 04:30	6°850'34	
morning max el	11571 Jan 29 03:34	27°829'47	17°58'23	direct	11572 Jan 04 07:30	6°835'25	
	11571 Jan 31 09:42	0°8		asc. node	11572 Jan 09 03:58	7°859'32	
morning set	11571 Feb 13 17:52	22°802'07		morning max el	11572 Jan 12 12:29	10°836'35	18°29'55
	11571 Feb 18 02:06	0°8			11572 Jan 25 06:02	0°8	
				morning set	11572 Jan 28 11:12	6°807'38	
superior conj	11571 Feb 23 23:44	10°833'33	0°05'14				
minimum elong	11571 Feb 24 00:12	10°835'35	0°05'28	superior conj	11572 Feb 06 11:09	23°814'48	0°38'58
behind sun begin	11571 Feb 23 16:36	10°802'13		minimum elong	11572 Feb 06 13:40	23°826'27	0°39'05
behind sun end	11571 Feb 24 07:48	11°808'53			11572 Feb 10 04:09	0°8	
desc. node	11571 Feb 24 15:55	11°844'17		desc. node	11572 Feb 11 12:37	2°824'27	
max. Earth dist.	11571 Mar 03 13:16	23°826'29	1.42454 AU	max. Earth dist.	11572 Feb 13 21:44	6°833'59	1.40367 AU
	11571 Mar 07 13:47	0°8		evening rise	11572 Feb 18 04:08	13°847'38	
evening rise	11571 Mar 09 08:01	2°848'38			11572 Feb 28 09:06	0°8	
	11571 Mar 27 11:49	0°8			11572 Mar 21 16:05	0°8	
evening max el	11571 Apr 11 03:23	18°822'11	22°20'53	evening max el	11572 Mar 23 18:08	2°810'36	23°41'29
asc. node	11571 Apr 20 04:11	24°803'39		retrograde	11572 Apr 03 14:37	8°834'26	
retrograde	11571 Apr 20 20:01	24°805'44		asc. node	11572 Apr 06 01:31	8°806'18	

evening set	11572 Apr 08 19:23	6°♄23'29		min. Earth dist.	11573 Mar 28 08:57	15°♊34'57	0.67991 AU
min. Earth dist.	11572 Apr 13 14:07	0°♄48'30	0.68584 AU	inferior conj	11573 Mar 29 12:29	14°♊04'25	1°41'20
inferior conj	11572 Apr 14 05:38	29°♊55'22	2°19'39	minimum elong	11573 Mar 29 10:29	14°♊11'03	1°40'32
minimum elong	11572 Apr 14 03:28	0°♄02'47	2°18'45	morning rise	11573 Apr 03 23:21	8°♊08'15	
	11572 Apr 14 04:16	30°♋♊		direct	11573 Apr 07 14:53	6°♊51'48	
morning rise	11572 Apr 19 11:33	23°♊51'08		morning max el	11573 Apr 14 19:30	10°♊50'20	19°30'32
direct	11572 Apr 23 15:18	22°♊13'50		desc. node	11573 Apr 26 10:50	25°♊51'08	
morning max el	11572 May 01 17:21	26°♊49'56	20°37'00	greatest brilliancy	11573 Apr 27 12:03	27°♊23'32	-0.7m
	11572 May 04 15:27	0°♄			11573 Apr 29 06:18	0°♄	
desc. node	11572 May 09 14:05	6°♄14'11		morning set	11573 May 10 00:48	16°♄21'52	
	11572 May 25 22:52	0°♄			11573 May 18 19:43	0°♄	
morning set	11572 May 31 00:56	7°♄48'47		max. Earth dist.	11573 May 22 05:27	5°♄21'12	1.44908 AU
max. Earth dist.	11572 Jun 08 15:56	21°♄26'40	1.43491 AU				
	11572 Jun 13 21:37	0°♄		superior conj	11573 May 26 09:30	11°♄58'35	-2°13'11
				minimum elong	11573 May 26 10:20	12°♄01'58	2°13'52
superior conj	11572 Jun 15 05:43	2°♄13'26	-2°01'50		11573 Jun 06 10:50	0°♄	
minimum elong	11572 Jun 15 11:40	2°♄38'17	2°02'11	evening rise	11573 Jun 09 09:46	4°♄55'33	
evening rise	11572 Jun 27 12:19	23°♄20'52		asc. node	11573 Jun 19 20:52	22°♄09'56	
	11572 Jul 01 07:15	0°♄			11573 Jun 25 07:57	0°♄	
asc. node	11572 Jul 02 23:53	2°♄56'20		evening max el	11573 Jun 27 22:50	2°♄57'44	18°13'20
evening max el	11572 Jul 14 08:49	19°♄31'44	18°03'50	retrograde	11573 Jul 04 07:23	6°♄19'23	
retrograde	11572 Jul 20 21:35	22°♄53'49		evening set	11573 Jul 07 05:25	5°♄33'48	
evening set	11572 Jul 23 11:25	22°♄21'54		inferior conj	11573 Jul 13 05:30	0°♄11'56	2°36'47
inferior conj	11572 Jul 30 00:18	17°♄17'49	1°50'10	minimum elong	11573 Jul 13 07:56	0°♄05'06	2°35'33
minimum elong	11572 Jul 30 02:56	17°♄11'15	1°48'48		11573 Jul 13 09:44	30°♋♄	
min. Earth dist.	11572 Aug 02 01:49	14°♄15'13	0.61525 AU	min. Earth dist.	11573 Jul 15 18:35	27°♄21'12	0.63707 AU
morning rise	11572 Aug 05 15:55	11°♄15'53		morning rise	11573 Jul 19 08:54	23°♄56'29	
desc. node	11572 Aug 05 13:05	11°♄20'48		desc. node	11573 Jul 23 10:21	21°♄44'13	
direct	11572 Aug 12 07:48	8°♄58'06		direct	11573 Jul 26 01:06	21°♄21'04	
morning max el	11572 Aug 26 12:54	16°♄58'36	27°57'39	morning max el	11573 Aug 08 21:46	29°♄22'49	27°41'55
	11572 Sep 06 07:52	0°♄			11573 Aug 09 12:22	0°♄	
	11572 Sep 24 09:58	0°♄			11573 Aug 31 06:30	0°♄	
morning set	11572 Sep 28 23:45	9°♄07'07		morning set	11573 Sep 12 18:08	22°♄50'10	
asc. node	11572 Sep 29 00:48	9°♄12'31		asc. node	11573 Sep 15 21:30	29°♄13'23	
max. Earth dist.	11572 Oct 04 15:26	21°♄09'10	1.31701 AU		11573 Sep 16 06:29	0°♄	
				max. Earth dist.	11573 Sep 17 16:05	2°♄56'06	1.32558 AU
superior conj	11572 Oct 06 09:03	24°♄57'38	1°06'41				
minimum elong	11572 Oct 06 06:48	24°♄45'14	1°06'34	superior conj	11573 Sep 20 15:48	9°♄19'21	0°45'12
	11572 Oct 08 15:45	0°♄		minimum elong	11573 Sep 20 13:52	9°♄08'55	0°44'54
evening rise	11572 Oct 13 02:48	9°♄46'18		evening rise	11573 Sep 27 14:08	24°♄21'19	
	11572 Oct 23 08:29	0°♄			11573 Sep 30 06:26	0°♄	
desc. node	11572 Nov 01 10:07	13°♄57'41			11573 Oct 18 21:06	0°♄	
evening max el	11572 Nov 08 00:40	21°♄28'38	24°50'08	desc. node	11573 Oct 19 07:24	0°♄27'15	
retrograde	11572 Nov 21 20:01	28°♄23'38		evening max el	11573 Oct 20 11:07	1°♄37'04	23°10'10
evening set	11572 Nov 27 08:09	27°♄15'54		retrograde	11573 Nov 02 18:37	8°♄14'33	
min. Earth dist.	11572 Dec 02 12:26	24°♄30'58	0.56615 AU	evening set	11573 Nov 06 21:57	7°♄37'21	
inferior conj	11572 Dec 05 03:13	22°♄49'55	-5°27'57	min. Earth dist.	11573 Nov 13 20:33	4°♄24'35	0.55208 AU
minimum elong	11572 Dec 05 09:35	22°♄39'38	5°26'17	inferior conj	11573 Nov 15 08:44	3°♄32'16	-5°50'00
morning rise	11572 Dec 13 13:12	18°♄43'13		minimum elong	11573 Nov 15 08:01	3°♄33'19	5°49'21
direct	11572 Dec 15 22:34	18°♄27'16			11573 Nov 22 16:47	30°♋♄	
morning max el	11572 Dec 25 11:12	23°♄01'41	19°23'19	morning rise	11573 Nov 23 19:43	29°♄41'50	
asc. node	11572 Dec 26 01:05	23°♄36'03		direct	11573 Nov 26 19:06	29°♄20'48	
	11572 Dec 31 03:35	0°♄			11573 Nov 30 17:25	0°♄	
morning set	11573 Jan 11 13:08	20°♄35'21		morning max el	11573 Dec 07 20:26	4°♄35'31	20°39'42
	11573 Jan 16 05:47	0°♄		asc. node	11573 Dec 12 22:08	10°♄26'36	
					11573 Dec 24 06:29	0°♄	
superior conj	11573 Jan 19 15:15	6°♄42'06	1°05'05	morning set	11573 Dec 26 20:34	5°♄16'10	
minimum elong	11573 Jan 19 18:12	6°♄56'32	1°05'20				
max. Earth dist.	11573 Jan 26 03:44	19°♄01'05	1.38143 AU	superior conj	11574 Jan 03 07:36	20°♄42'44	1°23'29
desc. node	11573 Jan 28 09:21	23°♄02'39		minimum elong	11574 Jan 03 10:01	20°♄55'01	1°23'58
evening rise	11573 Jan 29 21:29	25°♄42'05			11574 Jan 07 23:15	0°♄	
	11573 Feb 01 09:17	0°♄		max. Earth dist.	11574 Jan 08 12:01	1°♄01'58	1.36021 AU
	11573 Feb 20 23:31	0°♄		evening rise	11574 Jan 12 09:33	8°♄24'05	
evening max el	11573 Mar 06 07:43	16°♄01'59	24°59'48	desc. node	11574 Jan 15 06:07	13°♄34'39	
retrograde	11573 Mar 18 05:12	22°♄56'54			11574 Jan 25 02:04	0°♄	
evening set	11573 Mar 23 21:52	20°♄34'38		evening max el	11574 Feb 16 21:17	29°♄51'41	26°08'37
asc. node	11573 Mar 23 22:50	20°♄32'34			11574 Feb 17 00:43	0°♄	

retrograde	11574 Mar 01 14:42	7°♿06'09		retrograde	11575 Feb 12 18:27	20°♿55'10	
evening set	11574 Mar 07 19:00	4°♿35'55		evening set	11575 Feb 19 08:56	18°♿21'51	
asc. node	11574 Mar 10 20:11	1°♿32'49		min. Earth dist.	11575 Feb 23 08:07	14°♿30'57	0.65604 AU
min. Earth dist.	11574 Mar 11 23:41	0°♿11'10	0.66990 AU	inferior conj	11575 Feb 25 11:42	12°♿03'56	-0°04'44
	11574 Mar 12 03:21	30°♿♿		minimum elong	11575 Feb 25 11:49	12°♿03'34	0°04'23
inferior conj	11574 Mar 13 15:15	28°♿08'50	0°53'13	transit middle	11575 Feb 25 11:49	12°♿03'34	0°04'23
minimum elong	11574 Mar 13 13:57	28°♿12'50	0°52'49	transit begin	11575 Feb 25 08:57	12°♿11'47	
morning rise	11574 Mar 19 09:38	22°♿22'33		transit end	11575 Feb 25 14:41	11°♿55'22	
direct	11574 Mar 22 14:03	21°♿24'58		asc. node	11575 Feb 25 17:30	11°♿47'22	
morning max el	11574 Mar 29 04:57	24°♿58'39	18°39'44	morning rise	11575 Mar 03 16:06	6°♿29'45	
	11574 Apr 02 12:52	0°♿		direct	11575 Mar 06 10:44	5°♿48'01	
desc. node	11574 Apr 13 07:30	15°♿51'03		morning max el	11575 Mar 12 19:50	9°♿09'17	18°05'34
morning set	11574 Apr 19 14:34	25°♿41'10			11575 Mar 27 09:38	0°♿	
	11574 Apr 22 08:40	0°♿		morning set	11575 Mar 31 07:59	6°♿23'26	
max. Earth dist.	11574 May 04 23:47	19°♿44'45	1.45642 AU	desc. node	11575 Mar 31 04:09	6°♿07'51	
superior conj	11574 May 05 19:31	21°♿01'55	-2°05'09	superior conj	11575 Apr 15 03:43	0°♿07'28	-1°37'54
minimum elong	11574 May 05 12:55	20°♿36'05	2°05'22	minimum elong	11575 Apr 14 18:21	29°♿30'35	1°37'16
	11574 May 11 12:40	0°♿			11575 Apr 15 01:49	0°♿	
evening rise	11574 May 21 07:08	15°♿29'41		max. Earth dist.	11575 Apr 17 19:51	4°♿19'07	1.45628 AU
greatest brilliancy	11574 May 28 18:44	27°♿25'59	-0.9m	evening rise	11575 May 01 06:28	25°♿12'49	
	11574 May 30 09:49	0°♿			11575 May 04 08:48	0°♿	
asc. node	11574 Jun 06 17:54	10°♿55'41		greatest brilliancy	11575 May 13 22:53	14°♿37'52	-0.7m
evening max el	11574 Jun 11 10:57	16°♿35'03	18°40'48	asc. node	11575 May 24 15:01	29°♿04'07	
retrograde	11574 Jun 18 00:37	20°♿10'05			11575 May 25 11:58	0°♿	
evening set	11574 Jun 21 06:54	19°♿09'21		evening max el	11575 May 25 18:52	0°♿17'34	19°25'12
inferior conj	11574 Jun 26 21:59	13°♿31'18	3°03'52	retrograde	11575 Jun 01 21:55	4°♿18'31	
minimum elong	11574 Jun 26 23:30	13°♿26'36	3°02'56	evening set	11575 Jun 05 12:55	3°♿01'54	
min. Earth dist.	11574 Jun 28 20:20	11°♿09'01	0.65583 AU		11575 Jun 08 16:27	30°♿♿	
morning rise	11574 Jul 02 15:17	7°♿10'04		inferior conj	11575 Jun 10 22:24	27°♿09'19	3°15'08
direct	11574 Jul 09 02:04	4°♿27'34		minimum elong	11575 Jun 10 22:48	27°♿08'00	3°14'23
desc. node	11574 Jul 10 07:32	4°♿32'51		min. Earth dist.	11575 Jun 12 05:55	25°♿25'45	0.67053 AU
morning max el	11574 Jul 22 08:34	12°♿18'26	26°54'04	morning rise	11575 Jun 16 08:15	20°♿47'24	
	11574 Aug 05 12:35	0°♿		direct	11575 Jun 22 09:34	18°♿07'58	
	11574 Aug 23 20:54	0°♿		desc. node	11575 Jun 27 04:40	19°♿28'53	
morning set	11574 Aug 27 02:10	6°♿02'19		morning max el	11575 Jul 04 19:15	25°♿33'33	25°42'23
max. Earth dist.	11574 Aug 31 07:40	14°♿20'37	1.33929 AU		11575 Jul 08 20:32	0°♿	
asc. node	11574 Sep 02 18:13	19°♿18'47			11575 Jul 30 00:53	0°♿	
				morning set	11575 Aug 09 20:04	18°♿33'39	
superior conj	11574 Sep 04 16:55	23°♿21'32	0°18'51	max. Earth dist.	11575 Aug 13 13:05	25°♿28'07	1.35770 AU
minimum elong	11574 Sep 04 15:57	23°♿16'29	0°18'30		11575 Aug 15 21:35	0°♿	
	11574 Sep 07 20:20	0°♿					
evening rise	11574 Sep 12 00:26	8°♿51'09		superior conj	11575 Aug 19 09:41	6°♿56'34	-0°11'43
	11574 Sep 23 02:14	0°♿		minimum elong	11575 Aug 19 10:24	7°♿00'13	0°11'56
evening max el	11574 Oct 02 01:50	11°♿48'16	21°32'09	behind sun begin	11575 Aug 19 06:12	6°♿39'04	
desc. node	11574 Oct 06 04:44	15°♿12'26		behind sun end	11575 Aug 19 14:37	7°♿21'24	
retrograde	11574 Oct 14 07:28	17°♿53'15		asc. node	11575 Aug 20 14:55	9°♿24'19	
evening set	11574 Oct 17 01:56	17°♿35'44		evening rise	11575 Aug 27 07:31	23°♿09'08	
inferior conj	11574 Oct 26 01:51	13°♿40'12	-5°15'52		11575 Aug 30 16:53	0°♿	
minimum elong	11574 Oct 25 17:26	13°♿51'58	5°13'51	evening max el	11575 Sep 14 04:42	22°♿34'24	20°09'25
min. Earth dist.	11574 Oct 26 03:10	13°♿38'21	0.54585 AU	desc. node	11575 Sep 23 02:07	27°♿44'00	
morning rise	11574 Nov 03 09:55	9°♿51'42		retrograde	11575 Sep 24 20:35	27°♿52'29	
direct	11574 Nov 07 03:55	9°♿21'17		evening set	11575 Sep 26 20:01	27°♿42'21	
morning max el	11574 Nov 19 16:20	15°♿19'14	22°16'30	inferior conj	11575 Oct 05 20:12	23°♿43'54	-3°48'51
asc. node	11574 Nov 29 19:06	28°♿15'03		minimum elong	11575 Oct 05 10:42	23°♿58'03	3°45'33
	11574 Nov 30 20:47	0°♿		min. Earth dist.	11575 Oct 07 11:44	22°♿45'00	0.54901 AU
morning set	11574 Dec 11 07:11	20°♿03'16		morning rise	11575 Oct 14 00:22	19°♿35'48	
	11574 Dec 15 23:04	0°♿		direct	11575 Oct 18 14:04	18°♿50'33	
				morning max el	11575 Nov 01 04:11	25°♿29'47	24°04'09
superior conj	11574 Dec 18 08:39	5°♿06'39	1°34'36		11575 Nov 05 09:36	0°♿	
minimum elong	11574 Dec 18 10:02	5°♿13'58	1°35'16	asc. node	11575 Nov 16 15:59	16°♿46'59	
max. Earth dist.	11574 Dec 22 02:34	12°♿55'17	1.34194 AU		11575 Nov 23 11:53	0°♿	
evening rise	11574 Dec 26 12:46	21°♿44'33		morning set	11575 Nov 25 19:00	4°♿50'09	
	11574 Dec 30 22:15	0°♿					
desc. node	11575 Jan 02 02:59	3°♿56'13		superior conj	11575 Dec 02 15:27	19°♿44'29	1°39'03
	11575 Jan 18 21:32	0°♿		minimum elong	11575 Dec 02 15:40	19°♿45'40	1°39'46
evening max el	11575 Jan 30 10:50	13°♿31'43	27°00'34	max. Earth dist.	11575 Dec 05 00:48	24°♿54'14	1.32781 AU

	11575 Dec 07 10:35	0°♄		minimum elong	11576 Nov 16 00:51	4°♄24'42	1°37'55
evening rise	11575 Dec 10 03:35	5°♄33'51		max. Earth dist.	11576 Nov 17 05:38	7°♄03'48	1.31845 AU
desc. node	11575 Dec 19 23:57	24°♄01'06		evening rise	11576 Nov 23 02:59	19°♄44'38	
	11575 Dec 23 13:36	0°♄			11576 Nov 28 05:46	0°♄	
evening max el	11576 Jan 12 23:12	26°♄50'45	27°28'44	desc. node	11576 Dec 05 21:00	13°♄42'19	
	11576 Jan 16 14:42	0°♄			11576 Dec 16 20:21	0°♄	
retrograde	11576 Jan 26 15:50	4°♄14'37		evening max el	11576 Dec 25 08:31	9°♄36'49	27°26'46
evening set	11576 Feb 02 13:18	1°♄45'06		retrograde	11577 Jan 08 05:45	16°♄54'44	
	11576 Feb 04 16:43	30°♄		evening set	11577 Jan 15 05:12	14°♄37'40	
min. Earth dist.	11576 Feb 06 08:19	28°♄25'16	0.63868 AU	min. Earth dist.	11577 Jan 18 22:44	11°♄43'18	0.61869 AU
inferior conj	11576 Feb 08 23:12	25°♄43'04	-1°12'10	inferior conj	11577 Jan 21 22:40	8°♄58'23	-2°27'22
minimum elong	11576 Feb 09 01:29	25°♄37'08	1°10'44	minimum elong	11577 Jan 22 03:42	8°♄46'49	2°24'47
asc. node	11576 Feb 12 14:48	22°♄15'33		morning rise	11577 Jan 29 04:52	3°♄56'23	
morning rise	11576 Feb 15 15:47	20°♄23'34		asc. node	11577 Jan 29 12:05	3°♄51'03	
direct	11576 Feb 18 02:19	19°♄54'02		direct	11577 Jan 31 09:35	3°♄35'15	
morning max el	11576 Feb 24 13:23	23°♄14'08	17°48'37	morning max el	11577 Feb 07 06:22	7°♄04'02	17°49'25
	11576 Feb 29 23:12	0°♄			11577 Feb 22 03:51	0°♄	
morning set	11576 Mar 12 05:11	18°♄26'22		morning set	11577 Feb 23 00:13	1°♄31'06	
desc. node	11576 Mar 17 00:49	26°♄36'28		desc. node	11577 Mar 03 21:28	17°♄12'22	
	11576 Mar 19 01:24	0°♄					
superior conj	11576 Mar 25 03:33	10°♄01'19	-0°58'47	superior conj	11577 Mar 06 03:22	21°♄03'12	-0°17'10
minimum elong	11576 Mar 24 21:19	9°♄36'03	0°57'59	minimum elong	11577 Mar 06 01:45	20°♄56'22	0°16'45
max. Earth dist.	11576 Mar 30 14:47	18°♄47'13	1.44879 AU	max. Earth dist.	11577 Mar 11 11:52	0°♄	
	11576 Apr 06 18:48	0°♄		evening rise	11577 Mar 13 06:24	2°♄53'35	1.43486 AU
evening rise	11576 Apr 09 18:16	4°♄35'05			11577 Mar 20 10:05	14°♄15'41	
	11576 Apr 26 19:40	0°♄		evening max el	11577 Mar 30 19:01	0°♄	
evening max el	11576 May 07 21:17	14°♄02'20	20°24'42		11577 Apr 20 18:12	27°♄48'07	21°36'12
asc. node	11576 May 10 12:11	16°♄23'39		asc. node	11577 Apr 23 03:08	0°♄	
retrograde	11576 May 15 20:47	18°♄39'15		retrograde	11577 Apr 27 09:27	2°♄39'13	
evening set	11576 May 19 21:11	17°♄06'39		evening set	11577 Apr 29 19:03	3°♄06'48	
inferior conj	11576 May 25 04:00	11°♄01'11	3°13'22		11577 May 04 05:52	1°♄18'29	
minimum elong	11576 May 25 03:21	11°♄03'26	3°12'40	inferior conj	11577 May 05 15:10	30°♄	
min. Earth dist.	11576 May 25 21:25	10°♄01'29	0.68074 AU	minimum elong	11577 May 09 12:28	25°♄02'13	3°00'26
morning rise	11576 May 30 09:14	4°♄41'59		min. Earth dist.	11577 May 09 10:58	25°♄07'26	2°59'39
direct	11576 Jun 04 22:46	2°♄13'54		morning rise	11577 May 09 16:38	24°♄47'42	0.68634 AU
desc. node	11576 Jun 13 01:43	6°♄03'59		direct	11577 May 14 15:52	18°♄47'48	
morning max el	11576 Jun 16 05:08	8°♄59'07	24°16'40	morning max el	11577 May 19 16:25	16°♄37'08	
	11576 Jul 02 18:10	0°♄		desc. node	11577 May 29 15:43	22°♄31'14	22°46'48
morning set	11576 Jul 21 19:19	0°♄12'50			11577 May 30 22:42	23°♄51'47	
	11576 Jul 21 16:21	0°♄			11577 Jun 05 04:07	0°♄	
max. Earth dist.	11576 Jul 25 11:09	6°♄39'59	1.37958 AU	morning set	11577 Jun 26 01:45	0°♄	
				max. Earth dist.	11577 Jul 02 18:50	10°♄46'26	
superior conj	11576 Aug 01 14:48	19°♄56'44	-0°45'04		11577 Jul 07 08:41	18°♄26'33	1.40275 AU
minimum elong	11576 Aug 01 17:51	20°♄11'21	0°45'03		11577 Jul 13 22:58	0°♄	
asc. node	11576 Aug 06 11:41	29°♄26'36		superior conj	11577 Jul 15 04:08	2°♄11'49	-1°18'44
	11576 Aug 06 18:26	0°♄		minimum elong	11577 Jul 15 09:38	2°♄36'48	1°18'37
evening rise	11576 Aug 10 08:54	7°♄08'50		asc. node	11577 Jul 24 08:29	19°♄21'14	
	11576 Aug 23 08:49	0°♄		evening rise	11577 Jul 25 01:21	20°♄41'20	
evening max el	11576 Aug 26 21:32	4°♄08'44	19°07'31		11577 Jul 30 00:41	0°♄	
retrograde	11576 Sep 04 21:42	8°♄38'12		evening max el	11577 Aug 10 01:22	16°♄26'27	18°26'58
evening set	11576 Sep 06 18:07	8°♄27'37		retrograde	11577 Aug 17 17:31	20°♄17'58	
desc. node	11576 Sep 08 23:30	7°♄48'53		evening set	11577 Aug 19 19:13	20°♄01'55	
inferior conj	11576 Sep 15 05:16	4°♄15'07	-1°57'11	desc. node	11577 Aug 26 20:54	15°♄58'06	
minimum elong	11576 Sep 15 00:09	4°♄23'47	1°55'12	inferior conj	11577 Aug 27 11:31	15°♄29'14	-0°11'18
min. Earth dist.	11576 Sep 18 00:27	2°♄21'24	0.56116 AU	minimum elong	11577 Aug 27 11:04	15°♄30'06	0°11'22
	11576 Sep 22 02:13	30°♄		transit middle	11577 Aug 27 11:04	15°♄30'06	0°11'22
morning rise	11576 Sep 23 03:14	29°♄32'23		transit begin	11577 Aug 27 08:33	15°♄35'07	
direct	11576 Sep 28 12:33	28°♄24'51		transit end	11577 Aug 27 13:36	15°♄25'04	
	11576 Oct 04 22:40	0°♄		min. Earth dist.	11577 Aug 30 18:52	12°♄52'38	0.57995 AU
morning max el	11576 Oct 12 15:58	5°♄37'48	25°46'10	morning rise	11577 Sep 03 23:25	10°♄09'46	
	11576 Oct 30 08:23	0°♄		direct	11577 Sep 10 01:22	8°♄34'33	
asc. node	11576 Nov 02 12:51	5°♄51'43		morning max el	11577 Sep 24 09:20	16°♄11'46	27°05'23
morning set	11576 Nov 09 06:19	19°♄32'14			11577 Oct 05 16:24	0°♄	
	11576 Nov 14 01:06	0°♄		asc. node	11577 Oct 20 09:39	25°♄20'26	
superior conj	11576 Nov 16 01:42	4°♄29'27	1°37'19		11577 Oct 22 16:43	0°♄	
				morning set	11577 Oct 24 15:26	4°♄05'02	

superior conj	11577 Oct 31 13:24	19°♍15'31	1°29'46	superior conj	11578 Oct 16 00:38	3°♍56'23	1°16'39
minimum elong	11577 Oct 31 11:42	19°♍06'03	1°30'08	minimum elong	11578 Oct 15 22:27	3°♍44'17	1°16'43
max. Earth dist.	11577 Oct 31 14:17	19°♍20'28	1.31398 AU	evening rise	11578 Oct 22 17:40	18°♍43'44	
	11577 Nov 05 09:57	0°♊			11578 Oct 28 04:35	0°♊	
evening rise	11577 Nov 07 08:26	4°♊10'12		desc. node	11578 Nov 09 15:19	21°♊12'20	
	11577 Nov 20 23:39	0°♊			11578 Nov 16 14:16	0°♊	
desc. node	11577 Nov 22 18:07	2°♊50'35		evening max el	11578 Nov 19 07:46	2°♊47'22	25°41'35
evening max el	11577 Dec 07 12:15	21°♊38'36	26°50'44	retrograde	11578 Dec 03 04:59	9°♊47'40	
retrograde	11577 Dec 21 10:45	28°♊47'32		evening set	11578 Dec 09 07:51	8°♊20'53	
evening set	11577 Dec 28 04:55	26°♊51'53		min. Earth dist.	11578 Dec 13 20:09	5°♊43'59	0.57677 AU
min. Earth dist.	11578 Jan 01 02:32	24°♊13'31	0.59741 AU	inferior conj	11578 Dec 16 19:39	3°♊39'54	-4°56'46
inferior conj	11578 Jan 04 06:40	21°♊41'00	-3°45'33	minimum elong	11578 Dec 17 03:43	3°♊25'50	4°54'11
minimum elong	11578 Jan 04 14:14	21°♊25'47	3°42'21		11578 Dec 23 00:52	30°♋♊	
morning rise	11578 Jan 12 02:21	16°♊59'27		morning rise	11578 Dec 25 02:02	29°♊20'56	
direct	11578 Jan 14 04:40	16°♊43'01		direct	11578 Dec 27 07:02	29°♊05'48	
asc. node	11578 Jan 16 09:19	17°♊01'48			11578 Dec 31 08:13	0°♊	
morning max el	11578 Jan 21 19:18	20°♊29'47	18°09'14	asc. node	11579 Jan 03 06:28	1°♊48'14	
	11578 Jan 28 21:52	0°♋		morning max el	11579 Jan 05 00:16	3°♊19'42	18°49'53
morning set	11578 Feb 06 10:56	15°♋19'27		morning set	11579 Jan 21 08:21	29°♊35'44	
	11578 Feb 14 08:31	0°♋			11579 Jan 21 13:19	0°♋	
superior conj	11578 Feb 16 02:58	3°♋11'45	0°20'25	superior conj	11579 Jan 29 22:02	16°♋14'03	0°51'00
minimum elong	11578 Feb 16 04:32	3°♋18'46	0°20'34	minimum elong	11579 Jan 30 00:54	16°♋27'36	0°51'09
desc. node	11578 Feb 18 18:08	7°♋52'09		desc. node	11579 Feb 05 14:49	28°♋31'37	
max. Earth dist.	11578 Feb 23 17:57	16°♋27'10	1.41600 AU	max. Earth dist.	11579 Feb 06 01:25	29°♋18'31	1.39425 AU
evening rise	11578 Feb 28 18:17	24°♋43'23			11579 Feb 06 10:50	0°♋	
	11578 Mar 04 01:39	0°♋		evening rise	11579 Feb 09 23:32	6°♋06'02	
	11578 Mar 24 16:03	0°♋			11579 Feb 25 03:03	0°♋	
evening max el	11578 Apr 03 10:49	11°♋36'00	22°55'03	evening max el	11579 Mar 17 00:49	25°♋25'30	24°15'27
retrograde	11578 Apr 13 15:16	17°♋36'46			11579 Mar 22 12:10	0°♋	
asc. node	11578 Apr 14 06:44	17°♋34'48		retrograde	11579 Mar 28 08:09	2°♋03'25	
evening set	11578 Apr 18 13:22	15°♋33'35		asc. node	11579 Apr 01 04:04	0°♋56'23	
inferior conj	11578 Apr 23 21:48	9°♋09'00	2°37'22		11579 Apr 02 11:56	30°♋♋	
minimum elong	11578 Apr 23 19:46	9°♋16'02	2°36'29	evening set	11579 Apr 02 18:07	29°♋47'05	
min. Earth dist.	11578 Apr 23 13:20	9°♋38'21	0.68737 AU	min. Earth dist.	11579 Apr 07 09:22	24°♋27'27	0.68388 AU
morning rise	11578 Apr 29 02:03	3°♋00'51		inferior conj	11579 Apr 08 06:04	23°♋17'40	2°04'35
direct	11578 May 03 13:22	1°♋10'59		minimum elong	11579 Apr 08 03:54	23°♋24'58	2°03'42
morning max el	11578 May 12 06:28	6°♋13'07	21°21'28	morning rise	11579 Apr 13 13:48	17°♋16'57	
desc. node	11578 May 17 19:34	12°♋32'40		direct	11579 Apr 17 12:15	15°♋48'43	
	11578 May 30 10:28	0°♌		morning max el	11579 Apr 25 04:13	20°♋06'57	20°06'59
morning set	11578 Jun 12 16:21	20°♌10'23			11579 May 03 07:54	0°♋	
	11578 Jun 18 19:20	0°♌		desc. node	11579 May 04 16:21	1°♋51'53	
max. Earth dist.	11578 Jun 19 11:55	1°♌07'51	1.42435 AU	morning set	11579 May 22 18:48	28°♋46'45	
					11579 May 23 13:47	0°♌	
superior conj	11578 Jun 26 21:10	13°♌31'56	-1°48'37	max. Earth dist.	11579 Jun 01 22:09	14°♌39'53	1.44170 AU
minimum elong	11578 Jun 27 03:53	14°♌00'49	1°48'42				
	11578 Jul 06 04:52	0°♍		superior conj	11579 Jun 07 14:27	23°♌50'19	-2°08'43
evening rise	11578 Jul 08 04:54	3°♍37'08		minimum elong	11579 Jun 07 18:50	24°♌08'15	2°09'17
asc. node	11578 Jul 11 05:20	9°♍04'08			11579 Jun 11 08:03	0°♌	
evening max el	11578 Jul 24 12:03	29°♍17'56	18°06'39	evening rise	11579 Jun 20 14:46	15°♌44'54	
	11578 Jul 25 05:57	0°♎		asc. node	11579 Jun 28 02:15	28°♌30'25	
retrograde	11578 Jul 31 07:34	2°♎46'30			11579 Jun 28 23:59	0°♍	
evening set	11578 Aug 02 16:53	2°♎21'11		evening max el	11579 Jul 08 01:47	12°♍33'49	18°05'34
	11578 Aug 06 16:58	30°♎♍		retrograde	11579 Jul 14 11:38	15°♍54'17	
inferior conj	11578 Aug 09 14:50	27°♍27'46	1°12'57	evening set	11579 Jul 17 04:54	15°♍16'49	
minimum elong	11578 Aug 09 16:56	27°♍22'53	1°11'45	inferior conj	11579 Jul 23 11:50	10°♍04'40	2°12'34
min. Earth dist.	11578 Aug 12 20:58	24°♍28'22	0.60218 AU	minimum elong	11579 Jul 23 14:30	9°♍57'36	2°11'13
desc. node	11578 Aug 13 18:16	23°♍42'47		min. Earth dist.	11579 Jul 26 08:24	7°♍04'52	0.62476 AU
morning rise	11578 Aug 16 14:02	21°♍38'21		morning rise	11579 Jul 29 22:02	3°♍55'39	
direct	11578 Aug 23 02:41	19°♍35'07		desc. node	11579 Jul 31 15:34	2°♍49'28	
morning max el	11578 Sep 06 10:09	27°♍28'51	27°49'48	direct	11579 Aug 05 14:38	1°♍29'28	
	11578 Sep 08 20:09	0°♎		morning max el	11579 Aug 19 17:04	9°♍31'50	27°55'26
	11578 Sep 29 09:30	0°♎			11579 Sep 04 14:52	0°♎	
asc. node	11578 Oct 07 06:22	15°♎05'53			11579 Sep 21 15:32	0°♎	
morning set	11578 Oct 08 20:32	18°♎23'07		morning set	11579 Sep 22 19:35	2°♎21'27	
	11578 Oct 14 05:56	0°♎		asc. node	11579 Sep 24 03:03	5°♎02'47	
max. Earth dist.	11578 Oct 14 23:00	1°♎34'16	1.31449 AU	max. Earth dist.	11579 Sep 28 03:49	13°♎34'36	1.32005 AU

superior conj	11579 Sep 30 09:36	18° Ω 27'04	0°58'12	minimum elong	11580 Sep 13 12:38	2° Ω 32'35	0°34'15
minimum elong	11579 Sep 30 07:25	18° Ω 15'05	0°57'59	evening rise	11580 Sep 20 15:56	17° Ω 53'14	
	11579 Oct 05 15:52	0° \mathbb{M}			11580 Sep 26 14:12	0° \mathbb{M}	
evening rise	11579 Oct 07 04:49	3° \mathbb{M} 20'03		evening max el	11580 Oct 12 06:39	23° \mathbb{M} 14'39	22°27'13
	11579 Oct 21 08:52	0° \mathbb{J}		desc. node	11580 Oct 13 09:53	24° \mathbb{M} 18'28	
desc. node	11579 Oct 27 12:34	8° \mathbb{J} 29'45		retrograde	11580 Oct 25 05:28	29° \mathbb{M} 40'56	
evening max el	11579 Oct 31 19:41	13° \mathbb{J} 10'10	24°08'21	evening set	11580 Oct 28 17:34	29° \mathbb{M} 13'57	
retrograde	11579 Nov 14 11:16	19° \mathbb{J} 59'40		min. Earth dist.	11580 Nov 05 13:51	25° \mathbb{M} 43'47	0.54833 AU
evening set	11579 Nov 19 10:36	19° \mathbb{J} 05'23		inferior conj	11580 Nov 06 10:53	25° \mathbb{M} 14'04	-5°42'52
min. Earth dist.	11579 Nov 25 06:33	16° \mathbb{J} 10'54	0.55939 AU	minimum elong	11580 Nov 06 06:28	25° \mathbb{M} 20'19	5°41'55
inferior conj	11579 Nov 27 11:59	14° \mathbb{J} 49'16	-5°43'17	morning rise	11580 Nov 14 20:50	21° \mathbb{M} 26'35	
minimum elong	11579 Nov 27 15:54	14° \mathbb{J} 43'15	5°42'14	direct	11580 Nov 18 03:34	21° \mathbb{M} 02'14	
morning rise	11579 Dec 05 23:15	10° \mathbb{J} 51'03		morning max el	11580 Nov 29 20:59	26° \mathbb{M} 35'49	21°18'46
direct	11579 Dec 08 13:43	10° \mathbb{J} 33'32			11580 Dec 03 01:41	0° \mathbb{J}	
morning max el	11579 Dec 18 17:35	15° \mathbb{J} 23'53	19°53'05	asc. node	11580 Dec 07 00:31	5° \mathbb{J} 14'53	
asc. node	11579 Dec 21 03:32	17° \mathbb{J} 58'08		morning set	11580 Dec 19 21:57	28° \mathbb{J} 53'31	
	11579 Dec 29 04:49	0° \mathbb{Z}			11580 Dec 20 10:41	0° \mathbb{Z}	
morning set	11580 Jan 05 12:55	14° \mathbb{Z} 09'41		superior conj	11580 Dec 27 04:20	14° \mathbb{Z} 08'38	1°29'03
superior conj	11580 Jan 13 07:52	29° \mathbb{Z} 56'57	1°13'49	minimum elong	11580 Dec 27 06:21	14° \mathbb{Z} 19'03	1°29'37
minimum elong	11580 Jan 13 10:41	0° \approx 10'56	1°14'09	max. Earth dist.	11580 Dec 31 17:46	23° \mathbb{Z} 24'39	1.35195 AU
	11580 Jan 13 08:29	0° \approx			11581 Jan 04 03:08	0° \approx	
max. Earth dist.	11580 Jan 19 07:37	11° \approx 31'13	1.37212 AU	evening rise	11581 Jan 04 20:12	1° \approx 20'45	
evening rise	11580 Jan 23 01:13	18° \approx 21'11		desc. node	11581 Jan 09 08:23	9° \approx 35'30	
desc. node	11580 Jan 23 11:34	19° \approx 07'22			11581 Jan 21 20:57	0° \mathbb{H}	
	11580 Jan 29 19:43	0° \mathbb{H}		evening max el	11581 Feb 09 03:38	23° \mathbb{H} 02'08	26°33'17
	11580 Feb 19 09:09	0° \mathbb{Y}			11581 Feb 19 13:18	0° \mathbb{Y}	
evening max el	11580 Feb 27 14:04	9° \mathbb{Y} 15'36	25°30'38	retrograde	11581 Feb 22 04:09	0° \mathbb{Y} 22'27	
retrograde	11580 Mar 10 20:46	16° \mathbb{Y} 20'50			11581 Feb 24 16:01	30° \mathbb{R} \mathbb{H}	
evening set	11580 Mar 16 18:33	13° \mathbb{Y} 54'21		evening set	11581 Feb 28 12:54	27° \mathbb{H} 50'13	
asc. node	11580 Mar 18 01:25	12° \mathbb{Y} 42'41		min. Earth dist.	11581 Mar 04 15:06	23° \mathbb{H} 39'55	0.66435 AU
min. Earth dist.	11580 Mar 21 02:39	9° \mathbb{Y} 09'48	0.67611 AU	asc. node	11581 Mar 04 22:45	23° \mathbb{H} 17'16	
inferior conj	11580 Mar 22 11:24	7° \mathbb{Y} 24'37	1°22'06	inferior conj	11581 Mar 06 11:48	21° \mathbb{H} 25'56	0°29'49
minimum elong	11580 Mar 22 09:37	7° \mathbb{Y} 30'22	1°21'26	minimum elong	11581 Mar 06 11:01	21° \mathbb{H} 28'17	0°29'42
morning rise	11580 Mar 28 01:11	1° \mathbb{Y} 32'38		morning rise	11581 Mar 12 10:09	15° \mathbb{H} 44'25	
direct	11580 Mar 31 11:44	0° \mathbb{Y} 24'44		direct	11581 Mar 15 10:07	14° \mathbb{H} 54'07	
morning max el	11580 Apr 07 09:41	4° \mathbb{Y} 11'16	19°06'56	morning max el	11581 Mar 21 21:46	18° \mathbb{H} 21'30	18°23'07
greatest brilliancy	11580 Apr 20 11:42	21° \mathbb{Y} 33'59	-0.7m		11581 Mar 30 20:14	0° \mathbb{Y}	
desc. node	11580 Apr 20 13:03	21° \mathbb{Y} 39'01		desc. node	11581 Apr 07 09:43	11° \mathbb{Y} 46'46	
	11580 Apr 26 00:43	0° \mathbb{B}		morning set	11581 Apr 10 22:39	17° \mathbb{Y} 24'08	
morning set	11580 Apr 30 21:51	7° \mathbb{B} 31'33			11581 Apr 18 21:38	0° \mathbb{B}	
max. Earth dist.	11580 May 14 13:43	28° \mathbb{B} 47'22	1.45300 AU	superior conj	11581 Apr 26 16:15	12° \mathbb{B} 11'43	-1°55'40
	11580 May 15 08:13	0° \mathbb{H}		minimum elong	11581 Apr 26 07:36	11° \mathbb{B} 37'55	1°55'28
superior conj	11580 May 17 09:12	3° \mathbb{H} 13'03	-2°12'19	max. Earth dist.	11581 Apr 27 08:39	13° \mathbb{B} 15'47	1.45721 AU
minimum elong	11580 May 17 06:47	3° \mathbb{H} 03'29	2°12'55		11581 May 08 01:35	0° \mathbb{H}	
evening rise	11580 Jun 01 02:11	26° \mathbb{H} 53'37		evening rise	11581 May 12 13:27	7° \mathbb{H} 03'19	
	11580 Jun 02 23:39	0° \mathbb{E}		greatest brilliancy	11581 May 22 12:10	22° \mathbb{H} 37'40	-0.8m
asc. node	11580 Jun 13 23:16	17° \mathbb{E} 33'08			11581 May 27 09:45	0° \mathbb{E}	
evening max el	11580 Jun 20 15:15	26° \mathbb{E} 05'01	18°22'53	asc. node	11581 May 31 20:22	6° \mathbb{E} 04'31	
retrograde	11580 Jun 27 01:07	29° \mathbb{E} 31'08		evening max el	11581 Jun 04 01:52	9° \mathbb{E} 45'22	18°57'46
evening set	11580 Jun 30 02:30	28° \mathbb{E} 39'26		retrograde	11581 Jun 10 20:21	13° \mathbb{E} 29'56	
inferior conj	11580 Jul 05 22:18	23° \mathbb{E} 10'33	2°50'24	evening set	11581 Jun 14 06:13	12° \mathbb{E} 22'39	
minimum elong	11580 Jul 06 00:24	23° \mathbb{E} 04'23	2°49'18	inferior conj	11581 Jun 19 18:34	6° \mathbb{E} 38'32	3°10'21
min. Earth dist.	11580 Jul 08 05:17	20° \mathbb{E} 29'59	0.64541 AU	minimum elong	11581 Jun 19 19:37	6° \mathbb{E} 35'11	3°09'31
morning rise	11580 Jul 11 21:04	16° \mathbb{E} 51'33		min. Earth dist.	11581 Jun 21 10:39	4° \mathbb{E} 31'28	0.66261 AU
desc. node	11580 Jul 17 12:49	14° \mathbb{E} 14'44		morning rise	11581 Jun 25 08:21	0° \mathbb{E} 16'29	
direct	11580 Jul 18 11:28	14° \mathbb{E} 11'40			11581 Jun 25 16:06	30° \mathbb{R} \mathbb{H}	
morning max el	11580 Aug 01 03:13	22° \mathbb{E} 11'25	27°25'04	direct	11581 Jul 01 15:38	27° \mathbb{H} 33'46	
	11580 Aug 07 23:36	0° \mathbb{Q}		desc. node	11581 Jul 04 09:59	28° \mathbb{H} 00'43	
	11580 Aug 27 20:21	0° \mathbb{P}			11581 Jul 08 09:49	0° \mathbb{E}	
morning set	11580 Sep 05 09:59	15° \mathbb{P} 52'37		morning max el	11581 Jul 14 14:01	5° \mathbb{E} 16'07	26°25'51
asc. node	11580 Sep 09 23:44	25° \mathbb{P} 06'00			11581 Aug 02 12:58	0° \mathbb{Q}	
max. Earth dist.	11580 Sep 10 00:52	25° \mathbb{P} 11'48	1.33078 AU	morning set	11581 Aug 19 12:31	28° \mathbb{Q} 48'37	
	11580 Sep 12 07:55	0° \mathbb{A}			11581 Aug 20 03:41	0° \mathbb{P}	
superior conj	11580 Sep 13 14:15	2° \mathbb{A} 41'10	0°34'36	max. Earth dist.	11581 Aug 23 11:40	6° \mathbb{P} 25'33	1.34660 AU
				asc. node	11581 Aug 27 20:28	15° \mathbb{P} 11'52	

































































































































superior conj	11581 Aug 28 12:13	16° \cap 32'49	0°06'22	superior conj	11582 Aug 12 00:31	29° Ω 54'16	-0°25'37
minimum elong	11581 Aug 28 11:52	16° \cap 31'04	0°06'03	minimum elong	11582 Aug 12 02:10	0° \cap 02'24	0°25'44
behind sun begin	11581 Aug 28 06:22	16° \cap 02'46			11582 Aug 12 01:41	0° \cap	
behind sun end	11581 Aug 28 17:22	16° \cap 59'26		asc. node	11582 Aug 14 17:13	5° \cap 16'35	
	11581 Sep 03 22:38	0° $\underline{\Omega}$		evening rise	11582 Aug 20 06:08	16° \cap 29'38	
evening rise	11581 Sep 05 01:08	2° $\underline{\Omega}$ 18'28			11582 Aug 27 05:10	0° $\underline{\Omega}$	
	11581 Sep 20 20:12	0° \cap		evening max el	11582 Sep 06 11:08	14° $\underline{\Omega}$ 45'11	19°40'28
evening max el	11581 Sep 24 02:05	3° \cap 38'27	20°54'37	retrograde	11582 Sep 16 09:20	19° $\underline{\Omega}$ 41'40	
desc. node	11581 Sep 30 07:16	8° \cap 10'06		desc. node	11582 Sep 17 04:40	19° $\underline{\Omega}$ 39'49	
retrograde	11581 Oct 05 16:34	9° \cap 23'54		evening set	11582 Sep 18 06:13	19° $\underline{\Omega}$ 31'55	
evening set	11581 Oct 08 00:42	9° \cap 10'52		inferior conj	11582 Sep 27 02:03	15° $\underline{\Omega}$ 28'30	-3°02'30
inferior conj	11581 Oct 17 02:43	5° \cap 16'07	-4°44'07	minimum elong	11582 Sep 26 18:05	15° $\underline{\Omega}$ 40'58	2°59'29
minimum elong	11581 Oct 16 16:52	5° \cap 30'05	4°41'17	min. Earth dist.	11582 Sep 29 07:04	14° $\underline{\Omega}$ 05'46	0.55322 AU
min. Earth dist.	11581 Oct 17 21:13	4° \cap 49'49	0.54608 AU	morning rise	11582 Oct 05 04:06	11° $\underline{\Omega}$ 07'15	
morning rise	11581 Oct 25 09:12	1° \cap 21'33		direct	11582 Oct 10 02:29	10° $\underline{\Omega}$ 13'26	
direct	11581 Oct 29 11:45	0° \cap 45'20		morning max el	11582 Oct 23 23:11	17° $\underline{\Omega}$ 07'12	24°49'15
morning max el	11581 Nov 11 12:25	7° \cap 01'52	23°01'43		11582 Nov 03 11:05	0° \cap	
asc. node	11581 Nov 23 21:27	23° \cap 23'16		asc. node	11582 Nov 10 18:19	12° \cap 10'43	
	11581 Nov 27 14:26	0° \propto		morning set	11582 Nov 18 21:10	28° \cap 26'54	
morning set	11581 Dec 04 09:18	13° \propto 40'53			11582 Nov 19 14:29	0° \propto	
superior conj	11581 Dec 11 08:08	28° \propto 39'09	1°37'16	superior conj	11582 Nov 25 16:42	13° \propto 21'07	1°39'02
minimum elong	11581 Dec 11 09:02	28° \propto 43'55	1°37'58	minimum elong	11582 Nov 25 16:27	13° \propto 19'43	1°39'43
	11581 Dec 11 23:15	0° \propto		max. Earth dist.	11582 Nov 27 13:16	17° \propto 24'34	1.32331 AU
max. Earth dist.	11581 Dec 14 11:35	5° \propto 19'04	1.33541 AU	evening rise	11582 Dec 02 23:40	28° \propto 54'38	
evening rise	11581 Dec 19 04:47	14° \propto 54'43			11582 Dec 03 12:28	0° \propto	
desc. node	11581 Dec 27 05:18	29° \propto 50'42		desc. node	11582 Dec 14 02:20	19° \propto 46'58	
	11581 Dec 27 07:26	0° \approx			11582 Dec 20 10:45	0° \approx	
	11582 Jan 16 14:44	0° \propto		evening max el	11583 Jan 05 04:40	19° \approx 42'44	27°31'50
evening max el	11582 Jan 22 17:05	6° \propto 35'21	27°16'00	retrograde	11583 Jan 18 23:21	27° \approx 03'37	
retrograde	11582 Feb 05 05:18	13° \propto 59'36		evening set	11583 Jan 25 22:31	24° \approx 38'28	
evening set	11582 Feb 11 23:05	11° \propto 27'22		min. Earth dist.	11583 Jan 29 16:34	21° \approx 30'21	0.63052 AU
min. Earth dist.	11582 Feb 15 20:25	7° \propto 49'49	0.64898 AU	inferior conj	11583 Feb 01 11:38	18° \approx 45'35	-1°43'15
inferior conj	11582 Feb 18 04:49	5° \propto 15'16	-0°32'15	minimum elong	11583 Feb 01 15:03	18° \approx 37'11	1°41'19
minimum elong	11582 Feb 18 05:46	5° \propto 12'39	0°31'28	asc. node	11583 Feb 06 17:21	14° \approx 21'46	
asc. node	11582 Feb 19 20:05	3° \propto 29'58		morning rise	11583 Feb 08 09:53	13° \approx 33'00	
	11582 Feb 24 03:16	30° \approx		direct	11583 Feb 10 17:46	13° \approx 07'20	
morning rise	11582 Feb 24 14:08	29° \approx 46'41		morning max el	11583 Feb 17 07:47	16° \approx 29'38	17°46'42
direct	11582 Feb 27 05:07	29° \approx 10'32			11583 Feb 26 22:48	0° \propto	
	11582 Mar 02 07:18	0° \propto		morning set	11583 Mar 05 11:46	11° \propto 14'18	
morning max el	11582 Mar 05 14:06	2° \propto 30'10	17°56'12	desc. node	11583 Mar 12 03:01	22° \propto 41'03	
morning set	11582 Mar 23 04:28	28° \propto 42'33			11583 Mar 16 11:21	0° \propto	
	11582 Mar 23 23:10	0° \propto		superior conj	11583 Mar 17 14:53	1° \propto 54'10	-0°40'57
desc. node	11582 Mar 25 06:21	2° \propto 08'55		minimum elong	11583 Mar 17 10:42	1° \propto 36'48	0°40'17
superior conj	11582 Apr 06 05:19	21° \propto 32'45	-1°22'10	max. Earth dist.	11583 Mar 23 22:57	12° \propto 11'54	1.44366 AU
minimum elong	11582 Apr 05 20:47	20° \propto 58'49	1°21'22	evening rise	11583 Apr 01 17:45	25° \propto 58'00	
max. Earth dist.	11582 Apr 10 04:37	27° \propto 49'24	1.45398 AU		11583 Apr 04 08:58	0° \propto	
	11582 Apr 11 13:54	0° \propto			11583 Apr 25 03:39	0° \propto	
evening rise	11582 Apr 22 06:06	16° \propto 32'31		evening max el	11583 May 01 07:39	7° \propto 13'48	20°53'52
	11582 May 01 01:56	0° \propto		asc. node	11583 May 05 14:45	10° \propto 47'27	
greatest brilliancy	11582 May 06 15:22	8° \propto 17'03	-0.6m	retrograde	11583 May 09 17:15	12° \propto 07'44	
evening max el	11582 May 18 07:38	23° \propto 29'09	19°48'53	evening set	11583 May 13 22:05	10° \propto 28'07	
asc. node	11582 May 18 17:32	23° \propto 53'36		inferior conj	11583 May 19 04:32	4° \propto 17'41	3°09'10
retrograde	11582 May 25 18:28	27° \propto 43'53		minimum elong	11583 May 19 03:29	4° \propto 21'18	3°08'26
evening set	11582 May 29 13:27	26° \propto 20'22		min. Earth dist.	11583 May 19 16:07	3° \propto 37'33	0.68372 AU
inferior conj	11582 Jun 03 21:29	20° \propto 22'17	3°15'49		11583 May 22 10:49	30° \propto	
minimum elong	11582 Jun 03 21:25	20° \propto 22'30	3°15'07	morning rise	11583 May 24 08:40	28° \propto 00'31	
min. Earth dist.	11582 Jun 04 22:55	18° \propto 57'02	0.67548 AU	direct	11583 May 29 16:44	25° \propto 39'33	
morning rise	11582 Jun 09 05:03	14° \propto 01'28			11583 Jun 07 06:12	0° \propto	
direct	11582 Jun 15 01:42	11° \propto 25'53		desc. node	11583 Jun 08 04:06	0° \propto 50'08	
desc. node	11582 Jun 21 07:05	13° \propto 41'52		morning max el	11583 Jun 09 10:01	2° \propto 03'16	23°38'26
morning max el	11582 Jun 27 00:06	18° \propto 35'15	25°07'03		11583 Jun 30 15:28	0° \propto	
	11582 Jul 06 15:08	0° \propto		morning set	11583 Jul 14 12:45	22° \propto 10'42	
	11582 Jul 26 14:30	0° Ω		max. Earth dist.	11583 Jul 18 10:47	28° \propto 55'59	1.38942 AU
morning set	11582 Aug 01 23:06	10° Ω 58'53			11583 Jul 19 01:20	0° Ω	
max. Earth dist.	11582 Aug 05 13:20	17° Ω 31'16	1.36670 AU				

superior conj	11583 Jul 25 23:25	12°♎35'47	-0°59'31	morning set	11584 Jun 24 01:13	2°♏14'37	
minimum elong	11583 Jul 26 03:33	12°♎55'09	0°59'25	max. Earth dist.	11584 Jun 29 10:11	11°♏04'34	1.41222 AU
asc. node	11583 Aug 01 14:01	25°♎15'48					
evening rise	11583 Aug 04 04:09	0°♏18'36		superior conj	11584 Jul 07 04:38	24°♏28'15	-1°32'12
	11583 Aug 04 00:20	0°♏		minimum elong	11584 Jul 07 10:55	24°♏56'10	1°32'06
evening max el	11583 Aug 20 09:01	26°♏38'03	18°47'43		11584 Jul 10 06:37	0°♎	
	11583 Aug 25 00:15	0°♎		evening rise	11584 Jul 17 15:41	13°♎36'53	
retrograde	11583 Aug 28 18:25	0°♎50'11		asc. node	11584 Jul 18 10:51	15°♎06'00	
evening set	11583 Aug 30 16:27	0°♎37'49			11584 Jul 26 19:48	0°♏	
	11583 Sep 01 16:51	30°♏		evening max el	11584 Aug 02 16:12	9°♏10'57	18°15'57
desc. node	11583 Sep 04 02:04	28°♏47'57		retrograde	11584 Aug 09 22:26	12°♏51'09	
inferior conj	11583 Sep 07 19:46	26°♏16'43	-1°10'16	evening set	11584 Aug 12 03:04	12°♏31'44	
minimum elong	11583 Sep 07 16:50	26°♏22'02	1°09'13	inferior conj	11584 Aug 19 11:18	7°♏50'16	0°27'26
min. Earth dist.	11583 Sep 10 21:47	24°♏02'59	0.56844 AU	minimum elong	11584 Aug 19 12:13	7°♏48'18	0°26'44
morning rise	11583 Sep 15 13:54	21°♏17'56		desc. node	11584 Aug 20 23:26	6°♏32'57	
direct	11583 Sep 21 06:36	19°♏59'26		min. Earth dist.	11584 Aug 22 19:31	5°♏00'58	0.58909 AU
morning max el	11583 Oct 05 13:02	27°♏23'32	26°23'39	morning rise	11584 Aug 26 17:55	2°♏16'31	
	11583 Oct 08 02:02	0°♎		direct	11584 Sep 02 01:05	0°♏28'57	
	11583 Oct 27 21:14	0°♏		morning max el	11584 Sep 16 09:46	8°♏15'06	27°28'59
asc. node	11583 Oct 28 15:08	1°♏26'28			11584 Oct 02 22:06	0°♎	
morning set	11583 Nov 03 07:46	13°♏05'46		asc. node	11584 Oct 14 11:55	21°♎02'50	
				morning set	11584 Oct 17 15:25	27°♎32'45	
					11584 Oct 18 19:05	0°♏	
superior conj	11583 Nov 10 03:47	28°♏07'07	1°34'48	max. Earth dist.	11584 Oct 24 05:14	11°♏54'16	1.31353 AU
minimum elong	11583 Nov 10 02:32	28°♏00'10	1°35'19				
max. Earth dist.	11583 Nov 10 20:16	29°♏38'43	1.31596 AU				
	11583 Nov 11 00:07	0°♏		superior conj	11584 Oct 24 15:30	12°♏51'25	1°24'53
evening rise	11583 Nov 17 01:54	13°♏12'10		minimum elong	11584 Oct 24 13:33	12°♏40'33	1°25'07
	11583 Nov 25 14:43	0°♏		evening rise	11584 Oct 31 09:10	27°♏41'14	
desc. node	11583 Nov 30 23:25	9°♏15'33			11584 Nov 01 11:17	0°♏	
	11583 Dec 16 07:29	0°♏		desc. node	11584 Nov 16 20:33	28°♏05'42	
evening max el	11583 Dec 18 11:45	2°♏10'23	27°15'30		11584 Nov 18 03:12	0°♏	
retrograde	11584 Jan 01 09:32	9°♏24'38		evening max el	11584 Nov 29 11:55	13°♏48'56	26°24'57
evening set	11584 Jan 08 08:01	7°♏15'14		retrograde	11584 Dec 13 10:32	20°♏55'04	
min. Earth dist.	11584 Jan 12 02:14	4°♏29'26	0.60979 AU	evening set	11584 Dec 19 23:30	19°♏10'45	
inferior conj	11584 Jan 15 04:56	1°♏47'41	-3°00'33	min. Earth dist.	11584 Dec 24 01:31	16°♏35'03	0.58841 AU
minimum elong	11584 Jan 15 11:08	1°♏34'12	2°57'36	inferior conj	11584 Dec 27 05:09	14°♏12'21	-4°17'30
	11584 Jan 17 08:07	30°♏		minimum elong	11584 Dec 27 13:21	13°♏56'52	4°14'23
morning rise	11584 Jan 22 17:03	26°♏54'20		morning rise	11585 Jan 04 05:59	9°♏40'34	
direct	11584 Jan 24 20:19	26°♏35'36		direct	11585 Jan 06 08:32	9°♏25'15	
asc. node	11584 Jan 24 14:35	26°♏35'51		asc. node	11585 Jan 10 11:46	10°♏27'46	
	11584 Jan 31 19:11	0°♏		morning max el	11585 Jan 14 09:36	13°♏22'32	18°23'50
morning max el	11584 Jan 31 23:31	0°♏10'30	17°55'27		11585 Jan 25 15:09	0°♏	
morning set	11584 Feb 16 14:07	24°♏39'16		morning set	11585 Jan 30 05:51	8°♏40'29	
	11584 Feb 19 12:26	0°♏					
desc. node	11584 Feb 26 23:41	13°♏18'59		superior conj	11585 Feb 08 09:42	25°♏58'40	0°34'19
				minimum elong	11585 Feb 08 12:01	26°♏09'20	0°34'26
superior conj	11584 Feb 27 01:15	13°♏25'49	-0°00'31		11585 Feb 10 14:46	0°♏	
minimum elong	11584 Feb 27 01:13	13°♏25'41	0°00'13	desc. node	11585 Feb 12 20:20	3°♏58'52	
behind sun begin	11584 Feb 26 17:04	12°♏50'09		max. Earth dist.	11585 Feb 15 21:56	9°♏19'10	1.40692 AU
behind sun end	11584 Feb 27 09:23	14°♏01'08		evening rise	11585 Feb 20 08:20	16°♏46'26	
max. Earth dist.	11584 Mar 05 12:56	26°♏05'43	1.42733 AU		11585 Feb 28 15:51	0°♏	
	11584 Mar 07 22:22	0°♏			11585 Mar 22 08:04	0°♏	
evening rise	11584 Mar 11 15:25	5°♏55'52		evening max el	11585 Mar 26 17:31	4°♏47'45	23°29'30
	11584 Mar 27 15:26	0°♏		retrograde	11585 Apr 06 09:59	11°♏05'55	
evening max el	11584 Apr 13 02:22	20°♏59'39	22°09'07	asc. node	11585 Apr 08 09:17	10°♏47'41	
asc. node	11584 Apr 21 11:59	26°♏31'00		evening set	11585 Apr 11 12:58	8°♏57'01	
retrograde	11584 Apr 22 14:57	26°♏37'03		inferior conj	11585 Apr 16 22:41	2°♏29'43	2°24'39
evening set	11584 Apr 27 06:28	24°♏42'04		minimum elong	11585 Apr 16 20:33	2°♏37'05	2°23'45
inferior conj	11584 May 02 13:35	18°♏21'38	2°51'52	min. Earth dist.	11585 Apr 16 09:01	3°♏16'42	0.68636 AU
minimum elong	11584 May 02 11:49	18°♏27'47	2°51'02		11585 Apr 18 19:16	30°♏	
min. Earth dist.	11584 May 02 12:15	18°♏26'19	0.68729 AU	morning rise	11585 Apr 22 04:05	26°♏24'19	
morning rise	11584 May 07 17:01	12°♏09'41		direct	11585 Apr 26 09:47	24°♏43'42	
direct	11584 May 12 11:49	10°♏07'51		morning max el	11585 May 04 15:33	29°♏26'20	20°48'07
morning max el	11584 May 21 22:08	15°♏39'49	22°09'33		11585 May 05 04:51	0°♏	
desc. node	11584 May 25 01:01	19°♏02'37		desc. node	11585 May 11 21:49	8°♏01'08	
	11584 Jun 02 14:11	0°♏			11585 May 27 05:17	0°♏	
	11584 Jun 22 15:41	0°♏		morning set	11585 Jun 03 12:53	11°♏12'55	

max. Earth dist.	11585 Jun 11 15:49	24° Π 06'09	1.43235 AU			11586 May 20 03:37	0° Π	
	11585 Jun 15 06:25	0° \mathfrak{D}		max. Earth dist.		11586 May 25 04:35	7° Π 55'15	1.44743 AU
superior conj	11585 Jun 18 11:46	5° \mathfrak{D} 22'05	-1°58'45	superior conj		11586 May 29 18:52	15° Π 14'59	-2°12'36
minimum elong	11585 Jun 18 18:04	5° \mathfrak{D} 48'34	1°59'02	minimum elong		11586 May 29 20:46	15° Π 22'38	2°13'17
evening rise	11585 Jun 30 12:17	26° \mathfrak{D} 12'57				11586 Jun 07 19:20	0° \mathfrak{D}	
	11585 Jul 02 15:32	0° Ω		evening rise		11586 Jun 12 13:01	7° \mathfrak{D} 56'02	
asc. node	11585 Jul 05 07:43	4° Ω 42'10		asc. node		11586 Jun 22 04:40	23° \mathfrak{D} 59'01	
evening max el	11585 Jul 17 04:38	22° Ω 13'39	18°03'57			11586 Jun 26 04:13	0° Ω	
retrograde	11585 Jul 23 18:44	25° Ω 36'46		evening max el		11586 Jun 30 18:41	5° Ω 37'05	18°10'45
evening set	11585 Jul 26 07:27	25° Ω 06'37		retrograde		11586 Jul 07 03:13	8° Ω 57'55	
inferior conj	11585 Aug 01 22:35	20° Ω 05'19	1°41'06	evening set		11586 Jul 10 00:03	8° Ω 14'26	
minimum elong	11585 Aug 02 01:07	19° Ω 59'05	1°39'47	inferior conj		11586 Jul 16 01:46	2° Ω 54'56	2°31'01
min. Earth dist.	11585 Aug 05 01:33	17° Ω 02'47	0.61192 AU	minimum elong		11586 Jul 16 04:17	2° Ω 47'56	2°29'46
desc. node	11585 Aug 07 20:46	14° Ω 40'35		min. Earth dist.		11586 Jul 18 16:50	0° Ω 01'25	0.63398 AU
morning rise	11585 Aug 08 16:09	14° Ω 06'21				11586 Jul 18 17:22	30° \mathfrak{R} \mathfrak{D}	
direct	11585 Aug 15 07:30	11° Ω 52'01		morning rise		11586 Jul 22 06:53	26° \mathfrak{D} 40'58	
morning max el	11585 Aug 29 13:14	19° Ω 50'57	27°56'51	desc. node		11586 Jul 25 18:03	24° \mathfrak{D} 42'33	
	11585 Sep 07 05:29	0° \mathfrak{M}		direct		11586 Jul 28 23:24	24° \mathfrak{D} 07'41	
	11585 Sep 25 20:21	0° $\underline{\mathfrak{D}}$				11586 Aug 09 15:08	0° Ω	
asc. node	11585 Oct 01 08:39	10° $\underline{\mathfrak{D}}$ 53'22		morning max el		11586 Aug 11 21:38	2° Ω 09'37	27°46'32
morning set	11585 Oct 01 18:11	11° $\underline{\mathfrak{D}}$ 42'33				11586 Sep 01 13:01	0° \mathfrak{M}	
max. Earth dist.	11585 Oct 07 12:31	24° $\underline{\mathfrak{D}}$ 01'55	1.31614 AU	morning set		11586 Sep 15 13:51	25° \mathfrak{M} 29'29	
						11586 Sep 17 19:04	0° $\underline{\mathfrak{D}}$	
superior conj	11585 Oct 09 02:00	27° $\underline{\mathfrak{D}}$ 28'22	1°09'29	asc. node		11586 Sep 18 05:21	0° $\underline{\mathfrak{D}}$ 53'08	
minimum elong	11585 Oct 08 23:45	27° $\underline{\mathfrak{D}}$ 15'57	1°09'25	max. Earth dist.		11586 Sep 20 14:24	5° $\underline{\mathfrak{D}}$ 52'33	1.32398 AU
	11585 Oct 10 05:24	0° \mathfrak{M}						
evening rise	11585 Oct 15 19:25	12° \mathfrak{M} 16'09		superior conj		11586 Sep 23 09:24	11° $\underline{\mathfrak{D}}$ 52'24	0°48'48
	11585 Oct 24 15:39	0° \mathfrak{X}		minimum elong		11586 Sep 23 07:23	11° $\underline{\mathfrak{D}}$ 41'26	0°48'30
desc. node	11585 Nov 03 17:47	16° \mathfrak{X} 02'33		evening rise		11586 Sep 30 06:47	26° $\underline{\mathfrak{D}}$ 51'37	
evening max el	11585 Nov 11 04:03	24° \mathfrak{X} 36'59	25°04'14			11586 Oct 01 18:13	0° \mathfrak{M}	
	11585 Nov 18 14:37	0° \mathfrak{Z}				11586 Oct 19 06:20	0° \mathfrak{X}	
retrograde	11585 Nov 25 00:06	1° \mathfrak{Z} 33'21		desc. node		11586 Oct 21 15:05	2° \mathfrak{X} 45'18	
evening set	11585 Nov 30 16:25	0° \mathfrak{Z} 20'44		evening max el		11586 Oct 23 14:37	4° \mathfrak{X} 47'45	23°25'21
	11585 Dec 01 11:22	30° \mathfrak{R} \mathfrak{X}		retrograde		11586 Nov 06 00:29	11° \mathfrak{X} 28'42	
min. Earth dist.	11585 Dec 05 16:01	27° \mathfrak{X} 38'30	0.56873 AU	evening set		11586 Nov 10 09:16	10° \mathfrak{X} 47'18	
inferior conj	11585 Dec 08 09:27	25° \mathfrak{X} 51'09	-5°20'53	min. Earth dist.		11586 Nov 17 00:29	7° \mathfrak{X} 39'54	0.55372 AU
minimum elong	11585 Dec 08 16:27	25° \mathfrak{X} 39'38	5°18'56	inferior conj		11586 Nov 18 17:34	6° \mathfrak{X} 39'48	-5°50'01
morning rise	11585 Dec 16 18:43	21° \mathfrak{X} 41'15		minimum elong		11586 Nov 18 18:10	6° \mathfrak{X} 38'56	5°49'21
direct	11585 Dec 19 02:41	21° \mathfrak{X} 25'38		morning rise		11586 Nov 27 04:49	2° \mathfrak{X} 47'49	
asc. node	11585 Dec 28 08:53	25° \mathfrak{X} 51'45		direct		11586 Nov 30 01:46	2° \mathfrak{X} 27'48	
morning max el	11585 Dec 28 10:04	25° \mathfrak{X} 54'35	19°13'52	morning max el		11586 Dec 10 21:25	7° \mathfrak{X} 35'55	20°26'57
	11586 Jan 01 00:17	0° \mathfrak{Z}		asc. node		11586 Dec 15 05:56	12° \mathfrak{X} 31'44	
morning set	11586 Jan 14 06:45	23° \mathfrak{Z} 05'59				11586 Dec 25 17:06	0° \mathfrak{Z}	
	11586 Jan 17 17:47	0° \approx		morning set		11586 Dec 29 13:34	7° \mathfrak{Z} 45'14	
superior conj	11586 Jan 22 11:39	9° \approx 20'12	1°01'37	superior conj		11587 Jan 06 02:27	23° \mathfrak{Z} 16'30	1°21'10
minimum elong	11586 Jan 22 14:37	9° \approx 34'34	1°01'49	minimum elong		11587 Jan 06 05:00	23° \mathfrak{Z} 29'21	1°21'36
max. Earth dist.	11586 Jan 29 04:24	21° \approx 53'13	1.38478 AU			11587 Jan 09 11:18	0° \approx	
desc. node	11586 Jan 30 17:03	24° \approx 37'35		max. Earth dist.		11587 Jan 11 12:08	3° \approx 56'59	1.36323 AU
evening rise	11586 Feb 01 22:42	28° \approx 33'22		evening rise		11587 Jan 15 08:13	11° \approx 08'36	
	11586 Feb 02 18:46	0° \mathfrak{X}		desc. node		11587 Jan 17 13:50	15° \approx 10'39	
	11586 Feb 22 01:53	0° \mathfrak{Y}				11587 Jan 26 08:58	0° \mathfrak{X}	
evening max el	11586 Mar 09 07:14	18° \mathfrak{Y} 38'59	24°48'30			11587 Feb 17 10:37	0° \mathfrak{Y}	
retrograde	11586 Mar 21 01:08	25° \mathfrak{Y} 29'31		evening max el		11587 Feb 19 20:45	2° \mathfrak{Y} 29'01	25°59'10
asc. node	11586 Mar 26 06:37	23° \mathfrak{Y} 28'11		retrograde		11587 Mar 04 11:27	9° \mathfrak{Y} 41'14	
evening set	11586 Mar 26 16:05	23° \mathfrak{Y} 08'45		evening set		11587 Mar 10 14:09	7° \mathfrak{Y} 11'47	
min. Earth dist.	11586 Mar 31 04:15	18° \mathfrak{Y} 03'53	0.68113 AU	asc. node		11587 Mar 13 03:57	4° \mathfrak{Y} 39'36	
inferior conj	11586 Apr 01 05:59	16° \mathfrak{Y} 38'40	1°47'46	min. Earth dist.		11587 Mar 14 19:41	2° \mathfrak{Y} 42'01	0.67170 AU
minimum elong	11586 Apr 01 03:55	16° \mathfrak{Y} 45'32	1°46'57	inferior conj		11587 Mar 16 09:30	0° \mathfrak{Y} 43'53	1°01'09
morning rise	11586 Apr 06 15:57	10° \mathfrak{Y} 41'14		minimum elong		11587 Mar 16 08:04	0° \mathfrak{Y} 48'24	1°00'41
direct	11586 Apr 10 09:17	9° \mathfrak{Y} 21'42				11587 Mar 16 23:36	30° \mathfrak{R} \mathfrak{X}	
morning max el	11586 Apr 17 16:31	13° \mathfrak{Y} 24'47	19°39'25	morning rise		11587 Mar 22 02:38	24° \mathfrak{X} 56'08	
desc. node	11586 Apr 28 18:33	27° \mathfrak{Y} 33'24		direct		11587 Mar 25 08:37	23° \mathfrak{X} 55'58	
	11586 Apr 30 10:52	0° \mathfrak{B}		morning max el		11587 Apr 01 01:02	27° \mathfrak{X} 32'22	18°46'14
greatest brilliancy	11586 Apr 30 09:59	29° \mathfrak{Y} 56'45	-0.6m			11587 Apr 03 07:40	0° \mathfrak{Y}	
morning set	11586 May 13 12:35	19° \mathfrak{B} 44'09		desc. node		11587 Apr 15 15:15	17° \mathfrak{Y} 30'05	

morning set	11587 Apr 22 23:05	28° Υ 53'15			11588 Mar 27 16:38	0° Υ	
	11587 Apr 23 16:12	0° \mathcal{B}		desc. node	11588 Apr 01 11:55	7° Υ 44'31	
max. Earth dist.	11587 May 07 22:28	22° \mathcal{B} 15'46	1.45579 AU	morning set	11588 Apr 02 12:10	9° Υ 22'30	
					11588 Apr 15 10:05	0° \mathcal{B}	
superior conj	11587 May 09 06:43	24° \mathcal{B} 22'04	-2°07'42				
minimum elong	11587 May 09 01:07	24° \mathcal{B} 00'04	2°08'01	superior conj	11588 Apr 17 14:06	3° \mathcal{B} 24'25	-1°43'01
	11587 May 12 20:46	0° Π		minimum elong	11588 Apr 17 04:41	2° \mathcal{B} 47'29	1°42'30
evening rise	11587 May 24 14:05	18° Π 39'12		max. Earth dist.	11588 Apr 19 18:22	6° \mathcal{B} 49'08	1.45675 AU
greatest brilliancy	11587 May 30 21:48	28° Π 48'37	-0.9m	evening rise	11588 May 03 16:17	28° \mathcal{B} 28'26	
	11587 May 31 15:41	0° \mathcal{E}			11588 May 04 15:53	0° Π	
asc. node	11587 Jun 09 01:43	12° \mathcal{E} 49'33		greatest brilliancy	11588 May 15 16:39	16° Π 58'02	-0.7m
evening max el	11587 Jun 14 07:14	19° \mathcal{E} 13'03	18°35'36		11588 May 25 00:58	0° \mathcal{E}	
retrograde	11587 Jun 20 19:40	22° \mathcal{E} 45'28		asc. node	11588 May 25 22:50	1° \mathcal{E} 04'19	
evening set	11587 Jun 24 00:40	21° \mathcal{E} 47'04		evening max el	11588 May 27 15:53	2° \mathcal{E} 54'55	19°17'35
inferior conj	11587 Jun 29 16:50	16° \mathcal{E} 11'16	3°00'49	retrograde	11588 Jun 03 16:34	6° \mathcal{E} 51'26	
minimum elong	11587 Jun 29 18:32	16° \mathcal{E} 06'08	2°59'51	evening set	11588 Jun 07 06:10	5° \mathcal{E} 37'18	
min. Earth dist.	11587 Jul 01 17:25	13° \mathcal{E} 43'55	0.65323 AU	inferior conj	11588 Jun 12 16:18	29° Π 46'50	3°14'19
morning rise	11587 Jul 05 11:28	9° \mathcal{E} 50'21		minimum elong	11588 Jun 12 16:52	29° Π 44'58	3°13'32
direct	11587 Jul 11 23:15	7° \mathcal{E} 08'20			11588 Jun 12 12:16	30° \mathcal{R} Π	
desc. node	11587 Jul 12 15:16	7° \mathcal{E} 09'53		min. Earth dist.	11588 Jun 14 02:02	27° Π 56'55	0.66860 AU
morning max el	11587 Jul 25 08:27	15° \mathcal{E} 01'59	27°02'58	morning rise	11588 Jun 18 03:04	23° Π 24'40	
	11587 Aug 06 14:09	0° \mathcal{Q}		direct	11588 Jun 24 06:00	20° Π 44'05	
	11587 Aug 25 06:55	0° \mathcal{P}		desc. node	11588 Jun 28 12:25	21° Π 48'16	
morning set	11587 Aug 29 23:40	8° \mathcal{P} 46'59		morning max el	11588 Jul 06 19:18	28° Π 14'52	25°54'09
max. Earth dist.	11587 Sep 03 07:38	17° \mathcal{P} 21'07	1.33694 AU		11588 Jul 08 11:21	0° \mathcal{E}	
asc. node	11587 Sep 05 02:03	20° \mathcal{P} 58'08			11588 Jul 30 07:55	0° \mathcal{Q}	
				morning set	11588 Aug 11 19:57	21° \mathcal{Q} 25'02	
superior conj	11587 Sep 07 11:32	25° \mathcal{P} 57'54	0°23'10	max. Earth dist.	11588 Aug 15 14:19	28° \mathcal{Q} 29'11	1.35469 AU
minimum elong	11587 Sep 07 10:23	25° \mathcal{P} 51'48	0°22'48		11588 Aug 16 09:11	0° \mathcal{P}	
	11587 Sep 09 09:16	0° \mathcal{L}					
evening rise	11587 Sep 14 17:24	11° \mathcal{L} 22'37		superior conj	11588 Aug 21 05:44	9° \mathcal{P} 37'16	-0°06'52
	11587 Sep 24 06:14	0° \mathcal{M}		minimum elong	11588 Aug 21 06:09	9° \mathcal{P} 39'24	0°07'07
evening max el	11587 Oct 05 03:59	14° \mathcal{M} 55'33	21°45'57	behind sun begin	11588 Aug 21 00:38	9° \mathcal{P} 11'25	
desc. node	11587 Oct 08 12:26	17° \mathcal{M} 47'57		behind sun end	11588 Aug 21 11:41	10° \mathcal{P} 07'26	
retrograde	11587 Oct 17 14:32	21° \mathcal{M} 06'48		asc. node	11588 Aug 21 22:47	11° \mathcal{P} 03'48	
evening set	11587 Oct 20 13:13	20° \mathcal{M} 47'12		evening rise	11588 Aug 29 01:05	25° \mathcal{P} 42'26	
inferior conj	11587 Oct 29 11:45	16° \mathcal{M} 50'47	-5°24'51		11588 Aug 31 03:32	0° \mathcal{L}	
minimum elong	11587 Oct 29 04:11	17° \mathcal{M} 01'22	5°23'08	evening max el	11588 Sep 16 04:50	25° \mathcal{L} 35'17	20°20'29
min. Earth dist.	11587 Oct 29 07:06	16° \mathcal{M} 57'17	0.54620 AU		11588 Sep 22 08:56	0° \mathcal{M}	
morning rise	11587 Nov 06 20:21	13° \mathcal{M} 03'16		desc. node	11588 Sep 24 09:50	0° \mathcal{M} 41'08	
direct	11587 Nov 10 11:20	12° \mathcal{M} 34'38		retrograde	11588 Sep 27 02:49	1° \mathcal{M} 00'39	
morning max el	11587 Nov 22 19:09	18° \mathcal{M} 26'14	22°01'08	evening set	11588 Sep 29 03:52	0° \mathcal{M} 50'05	
	11587 Dec 01 23:53	0° \mathcal{X}			11588 Oct 02 03:27	30° \mathcal{R} \mathcal{L}	
asc. node	11587 Dec 02 02:55	0° \mathcal{X} 11'51		inferior conj	11588 Oct 08 05:00	26° \mathcal{L} 53'01	-4°04'28
morning set	11587 Dec 13 23:50	22° \mathcal{X} 31'12		minimum elong	11588 Oct 07 19:11	27° \mathcal{L} 07'25	4°01'10
	11587 Dec 17 12:21	0° \mathcal{Z}		min. Earth dist.	11588 Oct 09 15:24	26° \mathcal{L} 02'29	0.54795 AU
				morning rise	11588 Oct 16 09:48	22° \mathcal{L} 48'52	
superior conj	11587 Dec 21 02:25	7° \mathcal{Z} 37'06	1°33'21	direct	11588 Oct 20 20:35	22° \mathcal{L} 06'08	
minimum elong	11587 Dec 21 03:58	7° \mathcal{Z} 45'17	1°34'00	morning max el	11588 Nov 03 07:43	28° \mathcal{L} 39'57	23°48'01
max. Earth dist.	11587 Dec 25 01:23	15° \mathcal{Z} 48'54	1.34438 AU		11588 Nov 04 16:19	0° \mathcal{M}	
evening rise	11587 Dec 29 09:23	24° \mathcal{Z} 23'18		asc. node	11588 Nov 17 23:50	18° \mathcal{M} 37'51	
	11588 Jan 01 08:50	0° \approx			11588 Nov 23 23:30	0° \mathcal{X}	
desc. node	11588 Jan 04 10:43	5° \approx 33'42		morning set	11588 Nov 27 11:35	7° \mathcal{X} 18'13	
	11588 Jan 19 22:26	0° \mathcal{H}					
evening max el	11588 Feb 02 10:15	16° \mathcal{H} 10'29	26°54'12	superior conj	11588 Dec 04 08:32	22° \mathcal{X} 13'14	1°38'46
retrograde	11588 Feb 15 16:13	23° \mathcal{H} 33'39		minimum elong	11588 Dec 04 08:55	22° \mathcal{X} 15'22	1°39'30
evening set	11588 Feb 22 05:19	21° \mathcal{H} 00'17		max. Earth dist.	11588 Dec 06 22:23	27° \mathcal{X} 45'51	1.32960 AU
min. Earth dist.	11588 Feb 26 05:12	17° \mathcal{H} 04'33	0.65829 AU		11588 Dec 07 23:43	0° \mathcal{Z}	
inferior conj	11588 Feb 28 07:03	14° \mathcal{H} 40'29	0°04'42	evening rise	11588 Dec 11 22:40	8° \mathcal{Z} 08'50	
minimum elong	11588 Feb 28 06:55	14° \mathcal{H} 40'53	0°04'54	desc. node	11588 Dec 21 07:42	25° \mathcal{Z} 41'32	
transit middle	11588 Feb 28 06:55	14° \mathcal{H} 40'53	0°04'54		11588 Dec 23 20:33	0° \approx	
transit begin	11588 Feb 28 04:06	14° \mathcal{H} 49'04		evening max el	11589 Jan 14 22:57	29° \approx 33'36	27°26'26
transit end	11588 Feb 28 09:44	14° \mathcal{H} 32'43			11589 Jan 15 10:07	0° \mathcal{H}	
asc. node	11588 Feb 28 01:17	14° \mathcal{H} 57'14		retrograde	11589 Jan 28 14:44	6° \mathcal{H} 58'09	
morning rise	11588 Mar 05 09:49	9° \mathcal{H} 04'26		evening set	11589 Feb 04 11:19	4° \mathcal{H} 27'42	
direct	11588 Mar 08 05:47	8° \mathcal{H} 20'38		min. Earth dist.	11589 Feb 08 06:51	1° \mathcal{H} 03'22	0.64138 AU
morning max el	11588 Mar 14 15:20	11° \mathcal{H} 43'09	18°09'37		11589 Feb 09 07:18	30° \mathcal{R} \approx	

inferior conj	11589 Feb 10 20:07	28° \approx 22'41	-1°01'21	asc. node	11590 Jan 31 19:52	6° \approx 42'15	
minimum elong	11589 Feb 10 22:02	28° \approx 17'39	1°00'06	morning rise	11590 Feb 01 01:42	6° \approx 37'14	
asc. node	11589 Feb 13 22:36	25° \approx 19'33		direct	11590 Feb 03 07:08	6° \approx 15'01	
morning rise	11589 Feb 17 10:45	23° \approx 00'46		morning max el	11590 Feb 10 01:55	9° \approx 41'57	17°48'07
direct	11589 Feb 19 22:20	22° \approx 29'41			11590 Feb 23 13:01	0° \propto	
morning max el	11589 Feb 26 08:41	25° \approx 49'28	17°50'03	morning set	11590 Feb 25 21:46	4° \propto 11'29	
	11589 Mar 01 22:22	0° \propto		desc. node	11590 Mar 06 05:13	18° \propto 46'35	
morning set	11589 Mar 15 05:36	21° \propto 14'44					
desc. node	11589 Mar 19 08:35	28° \propto 11'39		superior conj	11590 Mar 09 06:53	24° \propto 00'27	-0°23'21
	11589 Mar 20 10:29	0° Υ		minimum elong	11590 Mar 09 04:38	23° \propto 50'58	0°22'50
					11590 Mar 12 21:04	0° Υ	
superior conj	11589 Mar 28 10:51	13° Υ 09'22	-1°05'05	max. Earth dist.	11590 Mar 16 05:52	5° Υ 29'50	1.43732 AU
minimum elong	11589 Mar 28 03:56	12° Υ 41'28	1°04'16	evening rise	11590 Mar 23 19:10	17° Υ 27'13	
max. Earth dist.	11589 Apr 02 13:28	21° Υ 18'44	1.45034 AU		11590 Apr 01 01:03	0° \propto	
	11589 Apr 08 02:36	0° \propto			11590 Apr 23 06:58	0° Π	
evening rise	11589 Apr 13 04:54	7° \propto 51'33		evening max el	11590 Apr 23 16:58	0° Π 25'33	21°24'55
	11589 Apr 27 23:00	0° Π		asc. node	11590 Apr 29 17:16	4° Π 58'38	
evening max el	11589 May 10 19:14	16° Π 39'48	20°14'58	retrograde	11590 May 02 13:42	5° Π 37'31	
asc. node	11589 May 12 20:01	18° Π 32'21		evening set	11590 May 06 22:57	3° Π 51'25	
retrograde	11589 May 18 15:17	21° Π 10'41			11590 May 10 11:29	30° \propto	
evening set	11589 May 22 14:14	19° Π 40'30		inferior conj	11590 May 12 05:27	27° \propto 36'40	3°03'04
inferior conj	11589 May 27 21:18	13° Π 37'00	3°14'23	minimum elong	11590 May 12 04:03	27° \propto 41'30	3°02'17
minimum elong	11589 May 27 20:47	13° Π 38'43	3°13'40	min. Earth dist.	11590 May 12 11:31	27° \propto 15'30	0.68586 AU
min. Earth dist.	11589 May 28 16:48	12° Π 30'28	0.67957 AU	morning rise	11590 May 17 08:57	21° \propto 21'33	
morning rise	11589 Jun 02 03:03	7° Π 17'14		direct	11590 May 22 11:31	19° \propto 08'02	
direct	11589 Jun 07 18:30	4° Π 46'54		morning max el	11590 Jun 01 15:23	25° \propto 09'41	23°00'03
desc. node	11589 Jun 15 09:27	8° Π 10'05		desc. node	11590 Jun 02 06:24	25° \propto 48'06	
morning max el	11589 Jun 19 05:08	11° Π 38'46	24°29'50		11590 Jun 06 00:15	0° Π	
	11589 Jul 03 21:36	0° \propto			11590 Jun 27 08:53	0° \propto	
	11589 Jul 23 01:46	0° Ω		morning set	11590 Jul 06 01:35	13° \propto 56'26	
morning set	11589 Jul 24 22:15	3° Ω 12'25		max. Earth dist.	11590 Jul 10 10:17	21° \propto 18'12	1.39936 AU
max. Earth dist.	11589 Jul 28 12:53	9° Ω 37'18	1.37621 AU		11590 Jul 15 09:17	0° Ω	
superior conj	11589 Aug 04 12:49	22° Ω 43'02	-0°39'56	superior conj	11590 Jul 18 04:49	5° Ω 05'44	-1°13'46
minimum elong	11589 Aug 04 15:29	22° Ω 55'55	0°39'56	minimum elong	11590 Jul 18 09:58	5° Ω 29'23	1°13'38
	11589 Aug 08 06:05	0° \P		asc. node	11590 Jul 26 16:21	21° Ω 03'02	
asc. node	11589 Aug 08 19:33	1° \P 06'42		evening rise	11590 Jul 27 21:30	23° Ω 22'23	
evening rise	11589 Aug 13 03:28	9° \P 44'59			11590 Jul 31 09:23	0° \P	
	11589 Aug 24 06:13	0° \propto		evening max el	11590 Aug 12 22:09	19° \P 14'15	18°31'39
evening max el	11589 Aug 29 19:44	7° \propto 02'22	19°15'23	retrograde	11590 Aug 20 18:20	23° \P 10'36	
retrograde	11589 Sep 08 01:20	11° \propto 38'22		evening set	11590 Aug 22 19:02	22° \P 55'35	
evening set	11589 Sep 09 21:34	11° \propto 28'09		desc. node	11590 Aug 29 04:34	19° \P 30'02	
desc. node	11589 Sep 11 07:13	11° \propto 07'28		inferior conj	11590 Aug 30 14:12	18° \P 25'53	-0°26'07
inferior conj	11589 Sep 18 11:14	7° \propto 18'21	-2°14'15	minimum elong	11590 Aug 30 13:11	18° \P 27'52	0°25'56
minimum elong	11589 Sep 18 05:20	7° \propto 28'07	2°11'58	min. Earth dist.	11590 Sep 02 20:36	15° \P 54'43	0.57684 AU
min. Earth dist.	11589 Sep 21 03:20	5° \propto 32'19	0.55888 AU	morning rise	11590 Sep 07 03:50	13° \P 11'43	
morning rise	11589 Sep 26 10:22	2° \propto 41'25		direct	11590 Sep 13 03:34	11° \P 40'58	
direct	11589 Oct 01 17:02	1° \propto 37'31		morning max el	11590 Sep 27 11:15	19° \P 14'45	26°55'39
morning max el	11589 Oct 15 18:54	8° \propto 45'48	25°32'03		11590 Oct 06 14:17	0° \propto	
	11589 Oct 31 14:45	0° \P		asc. node	11590 Oct 22 17:27	27° \propto 04'06	
asc. node	11589 Nov 04 20:40	7° \P 38'16			11590 Oct 24 04:32	0° \P	
morning set	11589 Nov 11 23:02	22° \P 01'14		morning set	11590 Oct 27 08:36	6° \P 36'02	
	11589 Nov 15 14:54	0° \propto					
				superior conj	11590 Nov 03 05:56	21° \P 43'52	1°31'16
superior conj	11589 Nov 18 18:22	6° \propto 57'29	1°37'56	minimum elong	11590 Nov 03 04:21	21° \P 35'01	1°31'41
minimum elong	11589 Nov 18 17:40	6° \propto 53'35	1°38'35	max. Earth dist.	11590 Nov 03 10:52	22° \P 11'22	1.31435 AU
max. Earth dist.	11589 Nov 20 02:27	9° \propto 54'22	1.31954 AU		11590 Nov 06 23:26	0° \propto	
evening rise	11589 Nov 25 20:58	22° \propto 16'59		evening rise	11590 Nov 10 01:39	6° \propto 40'58	
	11589 Nov 29 16:47	0° \propto			11590 Nov 22 05:23	0° \propto	
desc. node	11589 Dec 08 04:45	15° \propto 27'01		desc. node	11590 Nov 25 01:51	4° \propto 41'13	
	11589 Dec 17 17:50	0° \approx		evening max el	11590 Dec 10 13:42	24° \propto 34'45	26°58'15
evening max el	11589 Dec 28 09:00	12° \approx 25'51	27°29'16		11590 Dec 17 21:48	0° \approx	
retrograde	11590 Jan 11 05:47	19° \approx 44'33		retrograde	11590 Dec 24 11:56	1° \approx 44'45	
evening set	11590 Jan 18 05:17	17° \approx 25'14			11590 Dec 30 21:00	30° \propto	
min. Earth dist.	11590 Jan 21 22:51	14° \approx 27'28	0.62177 AU	evening set	11590 Dec 31 07:36	29° \propto 45'17	
inferior conj	11590 Jan 24 21:36	11° \approx 42'12	-2°15'35	min. Earth dist.	11591 Jan 04 04:05	27° \propto 05'27	0.60065 AU
minimum elong	11590 Jan 25 02:12	11° \approx 31'26	2°13'10	inferior conj	11591 Jan 07 08:05	24° \propto 30'07	-3°33'51

minimum elong	11591 Jan 07 15:20	24°  15'13	3°30'41	min. Earth dist.	11591 Dec 16 22:58	8°  45'14	0.57972 AU
morning rise	11591 Jan 15 01:51	19°  345'21		inferior conj	11591 Dec 20 00:00	6°  35'46	-4°47'07
direct	11591 Jan 17 04:20	19°  328'24		minimum elong	11591 Dec 20 08:15	6°  321'06	4°44'21
asc. node	11591 Jan 18 17:04	19°  337'44		morning rise	11591 Dec 28 05:10	2°  13'38	
morning max el	11591 Jan 24 15:38	23°  311'38	18°04'59	direct	11591 Dec 30 09:20	1°  358'34	
	11591 Jan 30 00:51	0°  ≈		asc. node	11592 Jan 05 14:12	4°  310'07	
morning set	11591 Feb 09 06:25	17°  ≈53'59		morning max el	11592 Jan 07 22:04	6°  307'43	18°42'26
	11591 Feb 15 19:20	0°  ✕			11592 Jan 23 00:22	0°  ≈	
				morning set	11592 Jan 24 02:29	2°  ≈06'43	
superior conj	11591 Feb 19 03:07	5°  ✕59'21	0°15'08	superior conj	11592 Feb 01 19:36	18°  ≈54'38	0°46'52
minimum elong	11591 Feb 19 04:19	6°  ✕04'44	0°15'18	minimum elong	11592 Feb 01 22:22	19°  ≈07'38	0°46'59
behind sun begin	11591 Feb 19 02:06	5°  ✕54'52		desc. node	11592 Feb 07 22:35	0°  ✕05'46	
behind sun end	11591 Feb 19 06:32	6°  ✕14'36			11592 Feb 07 21:17	0°  ✕	
desc. node	11591 Feb 21 01:53	9°  ✕25'53		max. Earth dist.	11592 Feb 09 01:53	2°  ✕06'06	1.39755 AU
max. Earth dist.	11591 Feb 26 18:09	19°  ✕09'11	1.41906 AU	evening rise	11592 Feb 13 02:23	9°  ✕00'34	
evening rise	11591 Mar 04 00:21	27°  ✕46'16			11592 Feb 26 08:34	0°  Υ	
	11591 Mar 05 09:50	0°  Υ		evening max el	11592 Mar 19 00:12	28°  Υ01'36	24°03'41
	11591 Mar 25 17:09	0°  8			11592 Mar 21 02:34	0°  8	
evening max el	11591 Apr 06 10:01	14°  812'31	22°43'03	retrograde	11592 Mar 30 03:48	4°  834'56	
retrograde	11591 Apr 16 10:17	20°  807'14		asc. node	11592 Apr 02 11:49	3°  843'42	
asc. node	11591 Apr 16 14:32	20°  807'06		evening set	11592 Apr 04 11:58	2°  820'21	
evening set	11591 Apr 21 06:42	18°  806'02			11592 Apr 06 18:45	30°  RΥ	
inferior conj	11591 Apr 26 14:43	11°  842'26	2°41'29	min. Earth dist.	11592 Apr 09 04:22	26°  Υ55'24	0.68462 AU
minimum elong	11591 Apr 26 12:45	11°  849'18	2°40'37	inferior conj	11592 Apr 09 23:17	25°  Υ51'16	2°10'10
min. Earth dist.	11591 Apr 26 08:04	12°  805'34	0.68750 AU	minimum elong	11592 Apr 09 21:06	25°  Υ58'38	2°09'18
morning rise	11591 May 01 18:41	5°  833'23		morning rise	11592 Apr 15 06:19	19°  Υ49'20	
direct	11591 May 06 07:56	3°  840'25		direct	11592 Apr 19 06:35	18°  Υ18'00	
morning max el	11591 May 15 05:21	8°  849'57	21°33'40	morning max el	11592 Apr 27 01:59	22°  Υ42'18	20°17'15
desc. node	11591 May 20 03:16	14°  821'46			11592 May 03 07:38	0°  8	
	11591 May 31 15:16	0°  II		desc. node	11592 May 06 00:03	3°  836'06	
morning set	11591 Jun 16 02:53	23°  II30'31			11592 May 23 21:05	0°  II	
	11591 Jun 20 03:59	0°  ☾		morning set	11592 May 25 07:12	2°  II11'21	
max. Earth dist.	11591 Jun 22 12:40	3°  ☾51'52	1.42132 AU	max. Earth dist.	11592 Jun 03 21:42	17°  II16'30	1.43942 AU
superior conj	11591 Jun 30 01:08	16°  ☾34'36	-1°44'33	superior conj	11592 Jun 09 22:02	27°  II02'17	-2°06'35
minimum elong	11591 Jun 30 07:50	17°  ☾03'39	1°44'35	minimum elong	11592 Jun 10 03:05	27°  II23'05	2°07'05
	11591 Jul 07 14:42	0°  Ω			11592 Jun 11 17:00	0°  ☾	
evening rise	11591 Jul 11 03:17	6°  Ω24'38		evening rise	11592 Jun 22 16:08	18°  ☾40'28	
asc. node	11591 Jul 13 13:12	10°  Ω48'13		asc. node	11592 Jun 29 10:07	0°  Ω17'35	
	11591 Jul 25 11:50	0°  ൬			11592 Jun 29 05:57	0°  Ω	
evening max el	11591 Jul 27 08:02	2°  ൬01'15	18°08'24	evening max el	11592 Jul 09 21:34	15°  Ω14'14	18°04'33
retrograde	11591 Aug 03 06:00	5°  ൬32'28		retrograde	11592 Jul 16 08:16	18°  Ω35'05	
evening set	11591 Aug 05 14:03	5°  ൬08'49		evening set	11592 Jul 19 00:17	17°  Ω59'38	
inferior conj	11591 Aug 12 14:34	0°  ൬18'20	1°01'45	inferior conj	11592 Jul 25 09:15	12°  Ω50'16	2°04'56
minimum elong	11591 Aug 12 16:26	0°  ൬14'07	1°00'39	minimum elong	11592 Jul 25 11:55	12°  Ω43'19	2°03'35
	11591 Aug 12 22:38	30°  RΩ		min. Earth dist.	11592 Jul 28 07:38	9°  Ω49'01	0.62147 AU
min. Earth dist.	11591 Aug 15 21:29	27°  Ω20'53	0.59875 AU	morning rise	11592 Jul 31 21:19	6°  Ω43'26	
desc. node	11591 Aug 16 01:55	27°  Ω11'25		desc. node	11592 Aug 01 23:13	6°  Ω00'43	
morning rise	11591 Aug 19 15:43	24°  Ω32'36		direct	11592 Aug 07 13:44	4°  Ω19'59	
direct	11591 Aug 26 03:05	22°  Ω33'24		morning max el	11592 Aug 21 17:18	12°  Ω22'04	27°56'56
	11591 Sep 09 00:40	0°  ൬			11592 Sep 04 17:33	0°  ൬	
morning max el	11591 Sep 09 11:06	0°  ൬25'24	27°45'42		11592 Sep 22 03:06	0°  ☾	
	11591 Sep 30 17:21	0°  ☾		morning set	11592 Sep 24 14:32	4°  ☾58'18	
asc. node	11591 Oct 09 14:12	16°  ☾47'30		asc. node	11592 Sep 25 10:56	6°  ☾43'06	
morning set	11591 Oct 11 14:26	20°  ☾56'42		max. Earth dist.	11592 Sep 30 01:22	16°  ☾28'31	1.31888 AU
	11591 Oct 15 19:34	0°  ൬		superior conj	11592 Oct 02 02:48	20°  ☾58'18	1°01'21
max. Earth dist.	11591 Oct 17 19:49	4°  ൬26'10	1.31408 AU	minimum elong	11592 Oct 02 00:35	20°  ☾46'07	1°01'10
superior conj	11591 Oct 18 17:21	6°  ൬25'49	1°19'01		11592 Oct 06 05:11	0°  ൬	
minimum elong	11591 Oct 18 15:13	6°  ൬13'57	1°19'07	evening rise	11592 Oct 08 21:24	5°  ൬49'30	
evening rise	11591 Oct 25 10:26	21°  ൬13'28			11592 Oct 21 11:17	0°  ✗	
	11591 Oct 29 15:23	0°  ✗		desc. node	11592 Oct 28 20:16	10°  ✗39'22	
desc. node	11591 Nov 11 23:01	23°  ✗10'58		evening max el	11592 Nov 02 23:10	16°  ✗19'14	24°23'10
	11591 Nov 17 01:16	0°  ☾		retrograde	11592 Nov 16 16:21	23°  ✗11'01	
evening max el	11591 Nov 22 10:20	5°  ☾50'50	25°53'39	evening set	11592 Nov 21 20:19	22°  ✗12'05	
retrograde	11591 Dec 06 07:57	12°  ☾52'46		min. Earth dist.	11592 Nov 27 10:22	19°  ✗21'19	0.56162 AU
evening set	11591 Dec 12 13:54	11°  ☾21'10					

inferior conj	11592 Nov 29 19:23	17° ♊ 52'39	-5°38'46			11593 Nov 06 23:50	30° ♋	
minimum elong	11592 Nov 30 00:17	17° ♊ 45'00	5°37'33	min. Earth dist.		11593 Nov 08 18:03	29° ♋ 01'31	0.54945 AU
morning rise	11592 Dec 08 06:22	13° ♊ 51'39		inferior conj		11593 Nov 09 20:30	28° ♋ 23'53	-5°46'43
direct	11592 Dec 10 18:48	13° ♊ 34'50		minimum elong		11593 Nov 09 17:22	28° ♋ 28'21	5°45'55
morning max el	11592 Dec 20 17:22	18° ♊ 19'33	19°42'13	morning rise		11593 Nov 18 06:52	24° ♋ 35'38	
asc. node	11592 Dec 22 11:18	20° ♊ 08'29		direct		11593 Nov 21 10:55	24° ♋ 12'32	
	11592 Dec 29 10:45	0° ♋		morning max el		11593 Dec 02 22:50	29° ♋ 39'40	21°04'41
morning set	11593 Jan 07 06:12	16° ♋ 38'45				11593 Dec 03 07:19	0° ♊	
	11593 Jan 13 20:48	0° ♋		asc. node		11593 Dec 09 08:20	7° ♊ 16'40	
						11593 Dec 21 22:54	0° ♋	
superior conj	11593 Jan 15 03:31	2° ♋ 32'31	1°10'50	morning set		11593 Dec 22 14:47	1° ♋ 22'13	
minimum elong	11593 Jan 15 06:24	2° ♋ 46'44	1°11'08					
max. Earth dist.	11593 Jan 21 07:52	14° ♋ 23'23	1.37532 AU	superior conj		11593 Dec 29 22:41	16° ♋ 41'06	1°27'10
desc. node	11593 Jan 24 19:20	20° ♋ 42'38		minimum elong		11593 Dec 30 00:51	16° ♋ 52'15	1°27'43
evening rise	11593 Jan 25 01:14	21° ♋ 08'50		max. Earth dist.		11594 Jan 03 17:20	26° ♋ 19'31	1.35479 AU
	11593 Jan 30 04:28	0° ♋				11594 Jan 05 14:41	0° ♋	
	11593 Feb 19 07:44	0° ♊		evening rise		11594 Jan 07 17:58	4° ♋ 03'13	
evening max el	11593 Mar 01 13:30	11° ♊ 52'09	25°20'07	desc. node		11594 Jan 11 16:11	11° ♋ 12'40	
retrograde	11593 Mar 13 17:12	18° ♊ 54'15				11594 Jan 23 02:01	0° ♋	
evening set	11593 Mar 19 13:10	16° ♊ 29'10		evening max el		11594 Feb 12 03:10	25° ♋ 40'31	26°25'00
asc. node	11593 Mar 20 09:10	15° ♊ 44'00				11594 Feb 17 06:21	0° ♊	
min. Earth dist.	11593 Mar 23 22:17	11° ♊ 39'18	0.67750 AU	retrograde		11594 Feb 25 01:21	2° ♊ 58'58	
inferior conj	11593 Mar 25 05:13	9° ♊ 59'03	1°29'12	evening set		11594 Mar 03 08:33	0° ♊ 27'25	
minimum elong	11593 Mar 25 03:20	10° ♊ 05'10	1°28'29			11594 Mar 03 21:30	30° ♋	
morning rise	11593 Mar 30 17:55	4° ♊ 05'33		asc. node		11594 Mar 07 06:29	26° ♋ 27'16	
direct	11593 Apr 03 06:10	2° ♊ 54'44		min. Earth dist.		11594 Mar 07 11:38	26° ♋ 12'01	0.66640 AU
morning max el	11593 Apr 10 06:19	6° ♊ 45'19	19°14'51	inferior conj		11594 Mar 09 06:31	24° ♋ 02'00	0°38'27
desc. node	11593 Apr 22 20:47	23° ♊ 19'42		minimum elong		11594 Mar 09 05:32	24° ♋ 04'59	0°38'13
greatest brilliancy	11593 Apr 23 03:14	23° ♊ 43'43	-0.7m	morning rise		11594 Mar 15 03:25	18° ♋ 18'40	
	11593 Apr 27 07:03	0° ♋		direct		11594 Mar 18 04:55	17° ♋ 25'53	
morning set	11593 May 04 08:35	10° ♋ 50'18		morning max el		11594 Mar 24 17:32	20° ♋ 55'12	18°28'32
	11593 May 16 16:18	0° ♋				11594 Mar 31 23:07	0° ♊	
max. Earth dist.	11593 May 17 12:25	1° ♋ 19'02	1.45175 AU	desc. node		11594 Apr 09 17:30	13° ♊ 25'03	
				morning set		11594 Apr 14 05:20	20° ♊ 30'46	
superior conj	11593 May 20 19:43	6° ♋ 32'08	-2°13'04			11594 Apr 20 05:40	0° ♋	
minimum elong	11593 May 20 18:29	6° ♋ 27'15	2°13'42					
evening rise	11593 Jun 04 07:04	29° ♋ 58'06		superior conj		11594 Apr 30 03:27	15° ♋ 31'25	-1°59'24
	11593 Jun 04 07:32	0° ♋		minimum elong		11594 Apr 29 19:23	14° ♋ 59'55	1°59'23
asc. node	11593 Jun 16 07:07	19° ♋ 24'22		max. Earth dist.		11594 Apr 30 07:07	15° ♋ 45'47	1.45712 AU
evening max el	11593 Jun 23 11:19	28° ♋ 43'53	18°19'13			11594 May 09 09:25	0° ♋	
	11593 Jun 24 20:55	0° ♋		evening rise		11594 May 15 21:46	10° ♋ 15'49	
retrograde	11593 Jun 29 20:33	2° ♋ 08'09		greatest brilliancy		11594 May 25 01:20	24° ♋ 40'39	-0.8m
evening set	11593 Jul 02 20:44	1° ♋ 18'40				11594 May 28 12:36	0° ♋	
	11593 Jul 04 18:09	30° ♋		asc. node		11594 Jun 03 04:11	8° ♋ 00'53	
inferior conj	11593 Jul 08 17:58	25° ♋ 52'17	2°45'50	evening max el		11594 Jun 06 22:30	12° ♋ 23'09	18°51'32
minimum elong	11593 Jul 08 20:12	25° ♋ 45'50	2°44'42	retrograde		11594 Jun 13 15:06	16° ♋ 04'03	
min. Earth dist.	11593 Jul 11 03:09	23° ♋ 07'47	0.64256 AU	evening set		11594 Jun 16 23:44	14° ♋ 59'02	
morning rise	11593 Jul 14 18:19	19° ♋ 34'21		inferior conj		11594 Jun 22 12:57	9° ♋ 17'04	3°08'19
desc. node	11593 Jul 19 20:29	17° ♋ 03'55		minimum elong		11594 Jun 22 14:11	9° ♋ 13'12	3°07'26
direct	11593 Jul 21 09:30	16° ♋ 55'44		min. Earth dist.		11594 Jun 24 07:15	7° ♋ 04'29	0.66033 AU
morning max el	11593 Aug 04 03:03	24° ♋ 56'36	27°31'34	morning rise		11594 Jun 28 03:56	2° ♋ 55'15	
	11593 Aug 08 17:22	0° ♋		direct		11594 Jul 04 12:31	0° ♋ 12'24	
	11593 Aug 29 04:44	0° ♊		desc. node		11594 Jul 06 17:41	0° ♋ 29'40	
morning set	11593 Sep 08 06:25	18° ♊ 34'09		morning max el		11594 Jul 17 13:49	7° ♋ 57'53	26°36'10
asc. node	11593 Sep 12 07:40	26° ♊ 45'57				11594 Aug 03 17:27	0° ♋	
max. Earth dist.	11593 Sep 12 23:41	28° ♊ 09'10	1.32884 AU			11594 Aug 21 14:33	0° ♊	
	11593 Sep 13 20:51	0° ♋		morning set		11594 Aug 22 10:58	1° ♊ 35'57	
				max. Earth dist.		11594 Aug 26 12:11	9° ♊ 26'29	1.34393 AU
superior conj	11593 Sep 16 08:17	5° ♋ 15'40	0°38'31	asc. node		11594 Aug 30 04:23	16° ♊ 51'47	
minimum elong	11593 Sep 16 06:32	5° ♋ 06'20	0°38'10					
evening rise	11593 Sep 23 08:42	20° ♋ 23'50		superior conj		11594 Aug 31 07:25	19° ♊ 11'14	0°10'55
	11593 Sep 28 00:01	0° ♋		minimum elong		11594 Aug 31 06:50	19° ♊ 08'14	0°10'36
evening max el	11593 Oct 15 09:50	26° ♋ 25'02	22°42'09	behind sun begin		11594 Aug 31 02:25	18° ♊ 45'21	
desc. node	11593 Oct 15 17:35	26° ♋ 43'40		behind sun end		11594 Aug 31 11:15	19° ♊ 31'09	
	11593 Oct 19 18:29	0° ♊				11594 Sep 05 11:00	0° ♋	
retrograde	11593 Oct 28 12:04	2° ♊ 55'33		evening rise		11594 Sep 07 18:19	4° ♋ 50'52	
evening set	11593 Nov 01 05:24	2° ♊ 25'17				11594 Sep 21 13:36	0° ♋	

evening max el	11594 Sep 27 03:31	6° \mathbb{M} 43'59	21°07'25	evening max el	11595 Sep 09 10:22	17° \mathbb{A} 43'18	19°50'10
desc. node	11594 Oct 02 14:57	10° \mathbb{M} 55'12		retrograde	11595 Sep 19 14:43	22° \mathbb{A} 47'23	
retrograde	11594 Oct 08 23:25	12° \mathbb{M} 36'24		desc. node	11595 Sep 19 12:20	22° \mathbb{A} 47'21	
evening set	11594 Oct 11 10:54	12° \mathbb{M} 22'00		evening set	11595 Sep 21 12:13	22° \mathbb{A} 37'37	
inferior conj	11594 Oct 20 12:29	8° \mathbb{M} 27'19	-4°56'31	inferior conj	11595 Sep 30 09:48	18° \mathbb{A} 36'03	-3°19'20
minimum elong	11594 Oct 20 02:58	8° \mathbb{M} 40'43	4°53'55	minimum elong	11595 Sep 30 01:11	18° \mathbb{A} 49'16	3°16'11
min. Earth dist.	11594 Oct 21 01:03	8° \mathbb{M} 09'36	0.54581 AU	min. Earth dist.	11595 Oct 02 10:17	17° \mathbb{A} 21'42	0.55157 AU
morning rise	11594 Oct 28 19:31	4° \mathbb{M} 35'22		morning rise	11595 Oct 08 12:38	14° \mathbb{A} 19'45	
direct	11594 Nov 01 19:10	4° \mathbb{M} 01'15		direct	11595 Oct 13 08:00	13° \mathbb{A} 29'08	
morning max el	11594 Nov 14 15:40	10° \mathbb{M} 11'18	22°45'44	morning max el	11595 Oct 27 02:38	20° \mathbb{A} 17'48	24°33'41
asc. node	11594 Nov 26 05:18	25° \mathbb{M} 18'17			11595 Nov 04 09:09	0° \mathbb{M}	
	11594 Nov 28 22:23	0° \mathbb{A}		asc. node	11595 Nov 13 02:12	14° \mathbb{M} 00'33	
morning set	11594 Dec 07 01:55	16° \mathbb{A} 09'38			11595 Nov 21 03:16	0° \mathbb{A}	
	11594 Dec 13 12:36	0° \mathbb{B}		morning set	11595 Nov 21 13:47	0° \mathbb{A} 56'02	
superior conj	11594 Dec 14 01:35	1° \mathbb{B} 09'24	1°36'25	superior conj	11595 Nov 28 09:33	15° \mathbb{A} 49'56	1°39'09
minimum elong	11594 Dec 14 02:39	1° \mathbb{B} 15'07	1°37'08	minimum elong	11595 Nov 28 09:27	15° \mathbb{A} 49'27	1°39'51
max. Earth dist.	11594 Dec 17 10:03	8° \mathbb{B} 13'33	1.33762 AU	max. Earth dist.	11595 Nov 30 10:35	20° \mathbb{A} 16'50	1.32480 AU
evening rise	11594 Dec 22 00:45	17° \mathbb{B} 32'37			11595 Dec 05 00:53	0° \mathbb{B}	
	11594 Dec 28 16:39	0° \mathbb{A}		evening rise	11595 Dec 05 18:13	1° \mathbb{B} 28'45	
desc. node	11594 Dec 29 13:05	1° \mathbb{A} 30'16		desc. node	11595 Dec 16 10:04	21° \mathbb{B} 29'37	
	11595 Jan 17 09:48	0° \mathbb{H}			11595 Dec 21 14:48	0° \mathbb{A}	
evening max el	11595 Jan 25 16:44	9° \mathbb{H} 16'35	27°11'06	evening max el	11596 Jan 08 04:34	22° \mathbb{A} 27'59	27°31'22
retrograde	11595 Feb 08 03:23	16° \mathbb{H} 40'30		retrograde	11596 Jan 21 22:32	29° \mathbb{A} 49'59	
evening set	11595 Feb 14 20:04	14° \mathbb{H} 07'48		evening set	11596 Jan 28 21:17	27° \mathbb{A} 23'05	
min. Earth dist.	11595 Feb 18 18:04	10° \mathbb{H} 25'39	0.65156 AU	min. Earth dist.	11596 Feb 01 15:36	24° \mathbb{A} 11'04	0.63343 AU
inferior conj	11595 Feb 21 00:47	7° \mathbb{H} 53'35	-0°22'09	inferior conj	11596 Feb 04 09:17	21° \mathbb{A} 26'54	-1°32'00
minimum elong	11595 Feb 21 01:25	7° \mathbb{H} 51'47	0°21'33	minimum elong	11596 Feb 04 12:17	21° \mathbb{A} 19'23	1°30'15
asc. node	11595 Feb 22 03:48	6° \mathbb{H} 39'18		asc. node	11596 Feb 09 01:06	17° \mathbb{A} 21'12	
morning rise	11595 Feb 27 08:20	2° \mathbb{H} 22'57		morning rise	11596 Feb 11 05:31	16° \mathbb{A} 11'54	
direct	11595 Mar 02 00:36	1° \mathbb{H} 44'52		direct	11596 Feb 13 14:17	15° \mathbb{A} 44'58	
morning max el	11595 Mar 08 09:24	5° \mathbb{H} 04'46	17°59'07	morning max el	11596 Feb 20 03:05	19° \mathbb{A} 06'11	17°47'00
	11595 Mar 25 07:19	0° \mathbb{Y}			11596 Feb 28 04:31	0° \mathbb{H}	
morning set	11595 Mar 26 06:55	1° \mathbb{Y} 37'06		morning set	11596 Mar 07 10:45	13° \mathbb{H} 59'00	
desc. node	11595 Mar 27 14:10	3° \mathbb{Y} 45'36		desc. node	11596 Mar 13 10:48	24° \mathbb{H} 16'30	
					11596 Mar 16 20:30	0° \mathbb{Y}	
superior conj	11595 Apr 09 14:30	24° \mathbb{Y} 46'24	-1°27'57	superior conj	11596 Mar 19 20:30	4° \mathbb{Y} 57'50	-0°47'19
minimum elong	11595 Apr 09 05:34	24° \mathbb{Y} 10'59	1°27'13	minimum elong	11596 Mar 19 15:35	4° \mathbb{Y} 37'38	0°46'35
	11595 Apr 12 22:03	0° \mathbb{B}		max. Earth dist.	11596 Mar 25 21:59	14° \mathbb{Y} 45'53	1.44558 AU
max. Earth dist.	11595 Apr 13 03:23	0° \mathbb{B} 20'52	1.45497 AU	evening rise	11596 Apr 04 03:52	29° \mathbb{Y} 13'03	
evening rise	11595 Apr 25 16:32	19° \mathbb{B} 49'33			11596 Apr 04 16:06	0° \mathbb{B}	
	11595 May 02 07:53	0° \mathbb{H}			11596 Apr 25 02:50	0° \mathbb{H}	
greatest brilliancy	11595 May 09 12:35	10° \mathbb{H} 49'13	-0.7m	evening max el	11596 May 03 05:50	9° \mathbb{H} 51'23	20°43'24
evening max el	11595 May 21 05:03	26° \mathbb{H} 06'47	19°40'17	asc. node	11596 May 06 22:29	13° \mathbb{H} 00'45	
asc. node	11595 May 21 01:18	25° \mathbb{H} 57'18		retrograde	11596 May 11 11:49	14° \mathbb{H} 39'23	
	11595 May 26 19:15	0° \mathbb{B}		evening set	11596 May 15 15:05	13° \mathbb{H} 02'09	
retrograde	11595 May 28 12:58	0° \mathbb{B} 16'24		inferior conj	11596 May 20 21:36	6° \mathbb{H} 53'22	3°10'54
	11595 May 30 05:29	30° \mathbb{R} \mathbb{H}		minimum elong	11596 May 20 20:41	6° \mathbb{H} 56'31	3°10'09
evening set	11595 Jun 01 06:34	28° \mathbb{H} 55'15		min. Earth dist.	11596 May 21 11:12	6° \mathbb{H} 06'26	0.68278 AU
inferior conj	11595 Jun 06 15:02	22° \mathbb{H} 59'02	3°15'50	morning rise	11596 May 26 02:04	0° \mathbb{H} 35'25	
minimum elong	11595 Jun 06 15:08	22° \mathbb{H} 58'42	3°15'06		11596 May 26 18:55	30° \mathbb{R} \mathbb{B}	
min. Earth dist.	11595 Jun 07 18:34	21° \mathbb{H} 27'20	0.67384 AU	direct	11596 May 31 12:01	28° \mathbb{B} 11'55	
morning rise	11595 Jun 11 23:22	16° \mathbb{H} 37'49			11596 Jun 05 18:56	0° \mathbb{H}	
direct	11595 Jun 17 21:41	14° \mathbb{H} 00'49		desc. node	11596 Jun 09 11:48	2° \mathbb{H} 52'30	
desc. node	11595 Jun 23 14:48	15° \mathbb{H} 55'30		morning max el	11596 Jun 11 10:01	4° \mathbb{H} 43'25	23°51'50
morning max el	11595 Jun 30 00:08	21° \mathbb{H} 16'02	25°19'41		11596 Jun 30 20:42	0° \mathbb{B}	
	11595 Jul 07 13:37	0° \mathbb{B}		morning set	11596 Jul 16 17:14	25° \mathbb{B} 15'19	
	11595 Jul 27 22:39	0° \mathbb{Q}			11596 Jul 19 11:06	0° \mathbb{Q}	
morning set	11595 Aug 05 00:11	13° \mathbb{Q} 53'52		max. Earth dist.	11596 Jul 20 12:37	1° \mathbb{Q} 52'13	1.38598 AU
max. Earth dist.	11595 Aug 08 15:10	20° \mathbb{Q} 32'51	1.36348 AU				
	11595 Aug 13 13:25	0° \mathbb{M}		superior conj	11596 Jul 27 22:26	15° \mathbb{Q} 25'33	-0°54'22
superior conj	11595 Aug 14 21:20	2° \mathbb{M} 37'41	-0°20'36	minimum elong	11596 Jul 28 02:11	15° \mathbb{Q} 43'16	0°54'18
minimum elong	11595 Aug 14 22:39	2° \mathbb{M} 44'10	0°20'44	asc. node	11596 Aug 02 21:52	26° \mathbb{Q} 57'10	
asc. node	11595 Aug 17 01:07	6° \mathbb{M} 56'57			11596 Aug 04 11:09	0° \mathbb{M}	
evening rise	11595 Aug 23 00:06	19° \mathbb{M} 04'42		evening rise	11596 Aug 05 23:19	2° \mathbb{M} 57'20	
	11595 Aug 28 12:54	0° \mathbb{A}		evening max el	11596 Aug 22 06:28	29° \mathbb{M} 29'20	18°54'12

	11596 Aug 22 19:09	0°♄	evening rise	11597 Jul 20 12:39	16°♄20'49	
retrograde	11596 Aug 30 20:55	3°♄47'24	asc. node	11597 Jul 20 18:40	16°♄49'02	
evening set	11596 Sep 01 18:11	3°♄35'47		11597 Jul 28 00:24	0°♄	
desc. node	11596 Sep 05 09:43	2°♄14'29	evening max el	11597 Aug 05 12:33	11°♄57'03	18°19'21
	11596 Sep 09 00:19	30°♄	retrograde	11597 Aug 12 22:00	15°♄40'50	
inferior conj	11596 Sep 10 00:20	29°♄17'46 -1°26'41	evening set	11597 Aug 15 01:34	15°♄22'41	
minimum elong	11596 Sep 09 20:39	29°♄24'18 1°25'19	inferior conj	11597 Aug 22 12:36	10°♄44'21	0°14'07
min. Earth dist.	11596 Sep 13 00:17	27°♄10'43 0.56576 AU	minimum elong	11597 Aug 22 13:05	10°♄43'20	0°13'37
morning rise	11596 Sep 17 19:51	24°♄24'31	transit middle	11597 Aug 22 13:05	10°♄43'20	0°13'37
direct	11596 Sep 23 10:00	23°♄09'57	transit begin	11597 Aug 22 11:12	10°♄47'14	
	11596 Oct 07 02:45	0°♄	transit end	11597 Aug 22 14:58	10°♄39'26	
morning max el	11596 Oct 07 15:39	0°♄30'29 26°11'09	desc. node	11597 Aug 23 07:04	10°♄05'47	
	11596 Oct 28 06:30	0°♄	min. Earth dist.	11597 Aug 25 20:50	7°♄58'57	0.58587 AU
asc. node	11596 Oct 29 23:01	3°♄12'28	morning rise	11597 Aug 29 21:05	5°♄15'24	
morning set	11596 Nov 05 00:38	15°♄36'04	direct	11597 Sep 05 02:37	3°♄32'00	
			morning max el	11597 Sep 19 11:08	11°♄15'22	27°21'31
superior conj	11596 Nov 11 20:21	0°♄35'40 1°35'49		11597 Oct 04 01:35	0°♄	
minimum elong	11596 Nov 11 19:14	0°♄29'29 1°36'22	asc. node	11597 Oct 16 19:47	22°♄46'02	
	11596 Nov 11 13:56	0°♄	morning set	11597 Oct 20 08:49	0°♄04'57	
max. Earth dist.	11596 Nov 12 16:49	2°♄29'12 1.31669 AU		11597 Oct 20 07:52	0°♄	
evening rise	11596 Nov 18 19:28	15°♄43'57				
	11596 Nov 25 24:00	0°♄	superior conj	11597 Oct 27 08:05	15°♄20'34	1°26'45
desc. node	11596 Dec 02 07:07	11°♄03'05	minimum elong	11597 Oct 27 06:12	15°♄10'10	1°27'02
	11596 Dec 15 17:49	0°♄	max. Earth dist.	11597 Oct 27 01:40	14°♄44'51	1.31354 AU
evening max el	11596 Dec 20 12:26	5°♄02'25 27°20'12		11597 Nov 02 23:55	0°♄	
retrograde	11597 Jan 03 10:09	12°♄18'16	evening rise	11597 Nov 03 02:07	0°♄11'45	
evening set	11597 Jan 10 09:08	10°♄05'56	desc. node	11597 Nov 19 04:16	29°♄59'53	
min. Earth dist.	11597 Jan 14 02:55	7°♄17'24 0.61290 AU		11597 Nov 19 04:17	0°♄	
inferior conj	11597 Jan 17 04:49	4°♄34'06 -2°48'43	evening max el	11597 Dec 02 13:54	16°♄49'12	26°34'44
minimum elong	11597 Jan 17 10:37	4°♄21'14 2°45'52	retrograde	11597 Dec 16 12:39	23°♄56'26	
	11597 Jan 23 14:19	30°♄	evening set	11597 Dec 23 03:34	22°♄08'02	
morning rise	11597 Jan 24 14:53	29°♄37'46	min. Earth dist.	11597 Dec 27 03:49	19°♄31'43	0.59149 AU
asc. node	11597 Jan 25 22:21	29°♄21'18	inferior conj	11597 Dec 30 07:49	17°♄05'14	-4°06'24
direct	11597 Jan 26 18:33	29°♄18'17	minimum elong	11597 Dec 30 15:50	16°♄49'43	4°03'13
	11597 Jan 29 20:48	0°♄	morning rise	11598 Jan 07 06:55	12°♄29'57	
morning max el	11597 Feb 02 19:22	2°♄50'52 17°52'55	direct	11598 Jan 09 09:12	12°♄14'21	
morning set	11597 Feb 18 10:39	27°♄17'29	asc. node	11598 Jan 12 19:34	12°♄58'26	
	11597 Feb 19 22:31	0°♄	morning max el	11598 Jan 17 06:31	16°♄07'54	18°18'17
desc. node	11597 Feb 28 07:27	14°♄53'58		11598 Jan 26 23:04	0°♄	
			morning set	11598 Feb 02 00:45	11°♄14'30	
superior conj	11597 Mar 01 03:14	16°♄19'34 -0°06'22				
minimum elong	11597 Mar 01 02:41	16°♄17'11 0°06'02	superior conj	11598 Feb 11 08:41	28°♄44'10	0°29'30
behind sun begin	11597 Feb 28 18:53	15°♄43'30	minimum elong	11598 Feb 11 10:46	28°♄53'41	0°29'36
behind sun end	11597 Mar 01 10:29	16°♄50'48		11598 Feb 12 01:23	0°♄	
max. Earth dist.	11597 Mar 08 12:27	28°♄44'10 1.43004 AU	desc. node	11598 Feb 15 04:07	5°♄33'53	
	11597 Mar 09 07:02	0°♄	max. Earth dist.	11598 Feb 18 22:17	12°♄04'35	1.41015 AU
evening rise	11597 Mar 14 23:16	9°♄04'37	evening rise	11598 Feb 23 13:05	19°♄47'09	
	11597 Mar 28 19:47	0°♄		11598 Mar 01 22:53	0°♄	
evening max el	11597 Apr 16 01:17	23°♄37'24 21°57'26		11598 Mar 23 03:29	0°♄	
asc. node	11597 Apr 23 19:44	28°♄56'20	evening max el	11598 Mar 29 16:55	7°♄25'25	23°17'27
retrograde	11597 Apr 25 09:47	29°♄08'23	retrograde	11598 Apr 09 05:14	13°♄37'36	
evening set	11597 Apr 29 23:36	27°♄15'45	asc. node	11598 Apr 10 17:02	13°♄27'07	
inferior conj	11597 May 05 06:30	20°♄56'39 2°55'07	evening set	11598 Apr 14 06:29	11°♄30'43	
minimum elong	11597 May 05 04:49	21°♄02'31 2°54'18	min. Earth dist.	11598 Apr 19 03:53	5°♄45'08	0.68683 AU
min. Earth dist.	11597 May 05 07:05	20°♄54'38 0.68707 AU	inferior conj	11598 Apr 19 15:43	5°♄04'19	2°29'23
morning rise	11597 May 10 09:51	14°♄43'45	minimum elong	11598 Apr 19 13:37	5°♄11'36	2°28'30
direct	11597 May 15 06:39	12°♄38'47		11598 Apr 23 17:20	30°♄	
morning max el	11597 May 24 21:31	18°♄18'36 22°22'23	morning rise	11598 Apr 24 20:39	28°♄57'53	
desc. node	11597 May 27 08:42	20°♄56'39	direct	11598 Apr 29 04:19	27°♄13'57	
	11597 Jun 03 15:12	0°♄		11598 May 05 07:42	0°♄	
	11597 Jun 23 23:23	0°♄	morning max el	11598 May 07 13:55	2°♄03'13	20°59'29
morning set	11597 Jun 27 09:35	5°♄29'48	desc. node	11598 May 14 05:33	9°♄49'01	
max. Earth dist.	11597 Jul 02 11:09	13°♄52'34 1.40899 AU		11598 May 28 11:14	0°♄	
			morning set	11598 Jun 07 00:31	14°♄36'33	
superior conj	11597 Jul 10 06:34	27°♄26'11 -1°27'30	max. Earth dist.	11598 Jun 14 15:54	26°♄47'08	1.42966 AU
minimum elong	11597 Jul 10 12:36	27°♄53'14 1°27'24		11598 Jun 16 15:05	0°♄	
	11597 Jul 11 16:47	0°♄				

superior conj	11598 Jun 21 17:16	8° Ω 29'38	-1°55'23	superior conj	11599 Jun 02 03:50	18° Π 31'01	-2°11'37
minimum elong	11598 Jun 21 23:48	8° Ω 57'19	1°55'36	minimum elong	11599 Jun 02 06:43	18° Π 42'40	2°12'15
evening rise	11598 Jul 03 11:48	29° Ω 04'16			11599 Jun 09 03:51	0° Ω	
	11598 Jul 04 00:17	0° Ω		evening rise	11599 Jun 15 15:49	10° Ω 56'02	
asc. node	11598 Jul 07 15:33	6° Ω 28'00		asc. node	11599 Jun 24 12:30	25° Ω 48'16	
evening max el	11598 Jul 20 00:31	24° Ω 56'37	18°04'31		11599 Jun 27 04:35	0° Ω	
retrograde	11598 Jul 26 16:14	28° Ω 21'15		evening max el	11599 Jul 03 14:32	8° Ω 17'33	18°08'35
evening set	11598 Jul 29 03:46	27° Ω 52'49		retrograde	11599 Jul 09 23:19	11° Ω 38'00	
inferior conj	11598 Aug 04 21:13	22° Ω 54'15	1°31'30	evening set	11599 Jul 12 18:55	10° Ω 56'38	
minimum elong	11598 Aug 04 23:38	22° Ω 48'26	1°30'13	inferior conj	11599 Jul 18 22:22	5° Ω 39'35	2°24'49
min. Earth dist.	11598 Aug 08 01:27	19° Ω 52'25	0.60852 AU	minimum elong	11599 Jul 19 00:58	5° Ω 32'31	2°23'31
desc. node	11598 Aug 10 04:23	18° Ω 03'54		min. Earth dist.	11599 Jul 21 15:23	2° Ω 43'35	0.63079 AU
morning rise	11598 Aug 11 16:46	16° Ω 58'31			11599 Jul 24 12:36	30° \mathbb{R} Ω	
direct	11598 Aug 18 07:22	14° Ω 47'55		morning rise	11599 Jul 25 05:14	29° Ω 27'13	
morning max el	11598 Sep 01 13:42	22° Ω 45'02	27°55'12	desc. node	11599 Jul 28 01:42	27° Ω 45'18	
	11598 Sep 08 00:01	0° \mathbb{M}		direct	11599 Jul 31 21:52	26° Ω 56'19	
	11598 Sep 27 06:00	0° Ω			11599 Aug 09 02:13	0° Ω	
asc. node	11598 Oct 03 16:32	12° Ω 35'13		morning max el	11599 Aug 14 21:40	4° Ω 58'26	27°50'23
morning set	11598 Oct 04 12:29	14° Ω 18'09			11599 Sep 02 18:27	0° \mathbb{M}	
max. Earth dist.	11598 Oct 10 09:34	26° Ω 55'18	1.31547 AU	morning set	11599 Sep 18 09:23	28° \mathbb{M} 09'11	
					11599 Sep 19 07:15	0° Ω	
superior conj	11598 Oct 11 18:55	29° Ω 59'29	1°12'11	asc. node	11599 Sep 20 13:14	2° Ω 34'05	
minimum elong	11598 Oct 11 16:41	29° Ω 47'07	1°12'09	max. Earth dist.	11599 Sep 23 12:39	8° Ω 49'55	1.32252 AU
	11598 Oct 11 19:01	0° \mathbb{M}					
evening rise	11598 Oct 18 12:07	14° \mathbb{M} 46'48		superior conj	11599 Sep 26 02:55	14° Ω 25'53	0°52'17
	11598 Oct 25 23:57	0° \mathbb{M}		minimum elong	11599 Sep 26 00:49	14° Ω 14'29	0°52'01
desc. node	11598 Nov 06 01:28	18° \mathbb{M} 06'04		evening rise	11599 Oct 02 23:27	29° Ω 22'42	
evening max el	11598 Nov 14 07:15	27° \mathbb{M} 44'35	25°17'45		11599 Oct 03 06:25	0° \mathbb{M}	
	11598 Nov 16 21:05	0° Ω			11599 Oct 19 22:39	0° \mathbb{M}	
retrograde	11598 Nov 28 03:45	4° Ω 42'11		desc. node	11599 Oct 23 22:46	5° \mathbb{M} 01'34	
evening set	11598 Dec 04 00:02	3° Ω 24'39		evening max el	11599 Oct 26 18:08	7° \mathbb{M} 58'45	23°40'25
min. Earth dist.	11598 Dec 08 19:23	0° Ω 44'38	0.57146 AU	retrograde	11599 Nov 09 06:09	14° \mathbb{M} 42'54	
	11598 Dec 09 22:23	30° \mathbb{R} \mathbb{M}		evening set	11599 Nov 13 20:13	13° \mathbb{M} 57'06	
inferior conj	11598 Dec 11 15:10	28° \mathbb{M} 51'16	-5°12'56	min. Earth dist.	11599 Nov 20 04:22	10° \mathbb{M} 54'36	0.55558 AU
minimum elong	11598 Dec 11 22:39	28° \mathbb{M} 38'41	5°10'46	inferior conj	11599 Nov 22 02:04	9° \mathbb{M} 46'49	-5°48'44
morning rise	11598 Dec 19 23:34	24° \mathbb{M} 38'11		minimum elong	11599 Nov 22 03:55	9° \mathbb{M} 44'04	5°47'59
direct	11598 Dec 22 06:23	24° \mathbb{M} 22'48		morning rise	11599 Nov 30 13:27	5° \mathbb{M} 52'58	
asc. node	11598 Dec 30 16:42	28° \mathbb{M} 09'12		direct	11599 Dec 03 08:03	5° \mathbb{M} 33'54	
morning max el	11598 Dec 31 08:38	28° \mathbb{M} 46'20	19°05'01	morning max el	11599 Dec 13 22:06	10° \mathbb{M} 35'36	20°14'41
	11599 Jan 01 13:19	0° Ω		asc. node	11599 Dec 17 13:46	14° \mathbb{M} 38'39	
morning set	11599 Jan 17 00:32	25° Ω 37'07			11599 Dec 27 02:45	0° Ω	
	11599 Jan 19 05:34	0° \approx		morning set	11600 Jan 01 06:38	10° Ω 14'38	
superior conj	11599 Jan 25 08:21	11° \approx 59'14	0°57'58	superior conj	11600 Jan 08 21:31	25° Ω 51'03	1°18'40
minimum elong	11599 Jan 25 11:18	12° \approx 13'25	0°58'09	minimum elong	11600 Jan 09 00:09	26° Ω 04'22	1°19'04
max. Earth dist.	11599 Feb 01 05:04	24° \approx 44'41	1.38811 AU		11600 Jan 10 23:25	0° \approx	
desc. node	11599 Feb 02 00:52	26° \approx 13'02		max. Earth dist.	11600 Jan 14 12:16	6° \approx 51'26	1.36628 AU
	11599 Feb 04 04:30	0° \mathbb{H}		evening rise	11600 Jan 18 07:11	13° \approx 54'04	
evening rise	11599 Feb 05 00:20	1° \mathbb{H} 25'47		desc. node	11600 Jan 19 21:40	16° \approx 47'08	
	11599 Feb 23 05:12	0° \mathbb{Y}			11600 Jan 27 16:24	0° \mathbb{H}	
evening max el	11599 Mar 12 06:45	21° \mathbb{Y} 16'14	24°37'06		11600 Feb 18 01:38	0° \mathbb{Y}	
retrograde	11599 Mar 23 20:59	28° \mathbb{Y} 02'21		evening max el	11600 Feb 22 20:11	5° \mathbb{Y} 06'34	25°49'30
asc. node	11599 Mar 28 14:22	26° \mathbb{Y} 22'15		retrograde	11600 Mar 06 08:08	12° \mathbb{Y} 16'35	
evening set	11599 Mar 29 10:13	25° \mathbb{Y} 43'05		evening set	11600 Mar 12 09:11	9° \mathbb{Y} 47'59	
min. Earth dist.	11599 Apr 02 23:27	20° \mathbb{Y} 33'05	0.68221 AU	asc. node	11600 Mar 14 11:42	7° \mathbb{Y} 45'55	
inferior conj	11599 Apr 03 23:25	19° \mathbb{Y} 13'12	1°54'00	min. Earth dist.	11600 Mar 16 15:34	5° \mathbb{Y} 13'12	0.67332 AU
minimum elong	11599 Apr 03 21:19	19° \mathbb{Y} 20'15	1°53'09	inferior conj	11600 Mar 18 03:39	3° \mathbb{Y} 19'21	1°08'55
morning rise	11599 Apr 09 08:33	13° \mathbb{Y} 14'37		minimum elong	11600 Mar 18 02:04	3° \mathbb{Y} 24'21	1°08'21
direct	11599 Apr 13 03:42	11° \mathbb{Y} 52'01			11600 Mar 20 22:29	30° \mathbb{R} \mathbb{H}	
morning max el	11599 Apr 20 13:45	15° \mathbb{Y} 59'58	19°48'43	morning rise	11600 Mar 23 19:33	27° \mathbb{H} 30'11	
desc. node	11599 May 01 02:20	29° \mathbb{Y} 16'45		direct	11600 Mar 27 03:08	26° \mathbb{H} 27'22	
	11599 May 01 14:26	0° \mathbb{B}			11600 Apr 02 18:26	0° \mathbb{Y}	
greatest brilliancy	11599 May 03 14:06	2° \mathbb{B} 52'35	-0.6m	morning max el	11600 Apr 02 21:18	0° \mathbb{Y} 06'59	18°53'09
morning set	11599 May 17 00:42	23° \mathbb{B} 08'05		desc. node	11600 Apr 16 23:05	19° \mathbb{Y} 10'29	
	11599 May 21 11:15	0° Π		greatest brilliancy	11600 Apr 16 18:31	18° \mathbb{Y} 53'04	-0.8m
max. Earth dist.	11599 May 28 03:57	10° Π 30'56	1.44556 AU		11600 Apr 23 23:19	0° \mathbb{B}	
				morning set	11600 Apr 25 08:17	2° \mathbb{B} 08'08	

max. Earth dist.	11600 May 09 21:15	24°♄48'04	1.45497 AU		11601 Apr 16 18:06	0°♄	
superior conj	11600 May 11 17:53	27°♄43'05	-2°09'46	superior conj	11601 Apr 21 00:48	6°♄43'19	-1°47'50
minimum elong	11600 May 11 13:21	27°♄25'18	2°10'13	minimum elong	11601 Apr 20 15:30	6°♄06'55	1°47'25
	11600 May 13 04:43	0°♄		max. Earth dist.	11601 Apr 22 16:43	9°♄19'30	1.45706 AU
evening rise	11600 May 26 20:34	21°♄48'26			11601 May 05 23:01	0°♄	
	11600 May 31 22:04	0°♄		evening rise	11601 May 07 01:48	1°♄44'23	
asc. node	11600 Jun 10 09:32	14°♄43'21		greatest brilliancy	11601 May 18 09:29	19°♄15'45	-0.7m
evening max el	11600 Jun 16 03:28	21°♄51'59	18°30'48		11601 May 25 20:09	0°♄	
retrograde	11600 Jun 22 14:50	25°♄22'00		asc. node	11601 May 28 06:37	3°♄04'16	
evening set	11600 Jun 25 18:33	24°♄25'59		evening max el	11601 May 30 12:49	5°♄33'17	19°10'17
inferior conj	11600 Jul 01 11:56	18°♄52'31	2°57'24	retrograde	11601 Jun 06 11:13	9°♄25'26	
minimum elong	11600 Jul 01 13:46	18°♄46'58	2°56'23	evening set	11601 Jun 09 23:28	8°♄13'46	
min. Earth dist.	11600 Jul 03 14:44	16°♄20'18	0.65056 AU	inferior conj	11601 Jun 15 10:18	2°♄25'30	3°13'08
morning rise	11600 Jul 07 07:57	12°♄32'03		minimum elong	11601 Jun 15 11:03	2°♄23'05	3°12'20
direct	11600 Jul 13 20:41	9°♄50'38		min. Earth dist.	11601 Jun 16 22:17	0°♄29'21	0.66661 AU
desc. node	11600 Jul 13 22:56	9°♄50'40			11601 Jun 17 07:33	30°♄	
morning max el	11600 Jul 27 08:24	17°♄46'50	27°11'15	morning rise	11601 Jun 20 22:05	26°♄03'13	
	11600 Aug 06 13:59	0°♄		direct	11601 Jun 27 02:35	23°♄21'38	
	11600 Aug 25 16:23	0°♄		desc. node	11601 Jun 30 20:06	24°♄10'43	
morning set	11600 Aug 31 20:52	11°♄31'30			11601 Jul 08 20:17	0°♄	
max. Earth dist.	11600 Sep 05 07:16	20°♄21'23	1.33469 AU	morning max el	11601 Jul 09 19:14	0°♄56'58	26°05'33
asc. node	11600 Sep 06 09:58	22°♄38'30			11601 Jul 31 14:12	0°♄	
				morning set	11601 Aug 14 19:26	24°♄16'01	
superior conj	11600 Sep 09 05:58	28°♄34'20	0°27'20		11601 Aug 17 20:27	0°♄	
minimum elong	11600 Sep 09 04:38	28°♄27'16	0°27'00	max. Earth dist.	11601 Aug 18 15:14	1°♄30'25	1.35175 AU
	11600 Sep 09 22:07	0°♄					
evening rise	11600 Sep 16 10:17	13°♄54'23		superior conj	11601 Aug 24 01:33	12°♄18'04	-0°02'05
	11600 Sep 24 12:13	0°♄		minimum elong	11601 Aug 24 01:40	12°♄18'44	0°02'21
evening max el	11600 Oct 07 06:25	18°♄04'23	22°00'07	behind sun begin	11601 Aug 23 19:41	11°♄48'15	
desc. node	11600 Oct 09 20:05	20°♄21'07		behind sun end	11601 Aug 24 07:40	12°♄49'15	
retrograde	11600 Oct 19 21:38	24°♄21'23		asc. node	11601 Aug 24 06:42	12°♄44'20	
evening set	11600 Oct 23 00:45	23°♄59'28		evening rise	11601 Aug 31 18:31	28°♄16'05	
inferior conj	11600 Oct 31 21:38	20°♄01'59	-5°32'33		11601 Sep 01 14:41	0°♄	
minimum elong	11600 Oct 31 15:05	20°♄11'11	5°31'07	evening max el	11601 Sep 19 05:17	28°♄38'17	20°32'04
min. Earth dist.	11600 Oct 31 11:08	20°♄16'43	0.54676 AU		11601 Sep 20 16:28	0°♄	
morning rise	11600 Nov 09 06:44	16°♄14'54		desc. node	11601 Sep 26 17:25	3°♄35'48	
direct	11600 Nov 12 18:43	15°♄47'54		retrograde	11601 Sep 30 09:14	4°♄10'51	
morning max el	11600 Nov 24 21:46	21°♄33'15	21°46'01	evening set	11601 Oct 02 12:21	3°♄59'37	
	11600 Dec 01 23:36	0°♄		inferior conj	11601 Oct 11 14:07	0°♄03'45	-4°19'22
asc. node	11600 Dec 03 10:46	2°♄10'44		minimum elong	11601 Oct 11 04:08	0°♄18'13	4°16'11
morning set	11600 Dec 15 16:29	24°♄59'52			11601 Oct 11 16:42	30°♄	
	11600 Dec 18 01:18	0°♄		min. Earth dist.	11601 Oct 12 19:10	29°♄21'38	0.54706 AU
				morning rise	11601 Oct 19 19:29	26°♄03'17	
superior conj	11600 Dec 22 20:18	10°♄08'40	1°31'56	direct	11601 Oct 24 03:23	25°♄22'57	
minimum elong	11600 Dec 22 22:01	10°♄17'41	1°32'34		11601 Nov 04 08:17	0°♄	
max. Earth dist.	11600 Dec 27 00:18	18°♄43'13	1.34693 AU	morning max el	11601 Nov 06 11:11	1°♄51'05	23°31'47
evening rise	11600 Dec 31 06:15	27°♄03'34		asc. node	11601 Nov 20 07:42	20°♄31'02	
	11601 Jan 01 19:35	0°♄			11601 Nov 25 10:08	0°♄	
desc. node	11601 Jan 05 18:31	7°♄11'57		morning set	11601 Nov 30 04:07	9°♄47'21	
	11601 Jan 20 00:34	0°♄					
evening max el	11601 Feb 04 09:39	18°♄49'43	26°47'21	superior conj	11601 Dec 07 01:39	24°♄43'20	1°38'21
retrograde	11601 Feb 17 13:54	26°♄12'23		minimum elong	11601 Dec 07 02:13	24°♄46'25	1°39'04
evening set	11601 Feb 24 01:31	23°♄39'14			11601 Dec 09 12:45	0°♄	
min. Earth dist.	11601 Feb 28 02:09	19°♄38'28	0.66047 AU	max. Earth dist.	11601 Dec 09 20:09	0°♄39'16	1.33153 AU
asc. node	11601 Mar 01 09:03	18°♄08'17		evening rise	11601 Dec 14 17:58	10°♄45'36	
inferior conj	11601 Mar 02 02:14	17°♄17'39	0°13'56	desc. node	11601 Dec 23 15:25	27°♄22'34	
minimum elong	11601 Mar 02 01:51	17°♄18'47	0°14'00		11601 Dec 25 04:02	0°♄	
transit middle	11601 Mar 02 01:51	17°♄18'47	0°14'00				
transit begin	11601 Mar 02 00:25	17°♄22'59					
transit end	11601 Mar 02 03:17	17°♄14'34					
morning rise	11601 Mar 08 03:25	11°♄39'42					
direct	11601 Mar 11 00:43	10°♄53'44					
morning max el	11601 Mar 17 10:53	14°♄17'46	18°14'00				
	11601 Mar 28 22:38	0°♄					
desc. node	11601 Apr 03 19:46	9°♄22'39					
morning set	11601 Apr 05 17:00	12°♄24'21					